

BURKINA FASO

La patrie ou la mort, nous vaincrons

PROJET DE CONSTRUCTION D'UN BATIMENT
RDC A RENOVE SITE ACTION SOCIALE
A POUYTENGA

MAITRE D'OEUVRE



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ETUDES

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MAITRE D'OUVRAGE

SERVICE SOCIAL COMMUNAL DE POUYTENGA

CONTROLE TECHNIQUE

DOSSIER D'EXÉCUTION

CARNET DE FERRAILLAGE
semelles-Poteaux-Longrines-Poutres

Octobre 2025

ECH: 1/VAR

CARNET N°2

Indice: A

Voir plans de coffrage

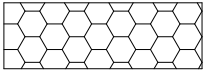
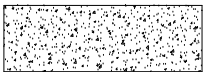
pour coupes et details

Vérifier par:

Yiziah Arnaud BADO (Architecte)

Sayouba GUIRE (Ingénieur)

INDICATIONS GENERALES

CHARGES D'EXPLOITATION	LEGENDE	DOSAGE Sauf qualité précisée sur plan
Dallage 250 daN/m ²	 Gros beton	200 kg/m ³
Dalle 100daN/m ²	 Beton de propreté	150 kg/m ³
Toiture 100daN/m ²	 Beton arme	350 kg/m ³
Taux de travail du sol = 1.50 bars à -100 cm/TN selon l'études de sol du LNBTP	 Agglos pleins	Type B80
	 Agglos creux	Type B40

BETON ARME dosé à 350 kg/m³ de ciment CPA 45
Fc28=20MPa ; sauf indication particulière
précisée sur le plan. Enrobage=3 cm

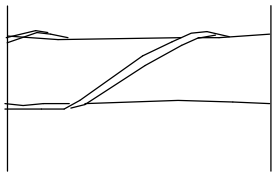
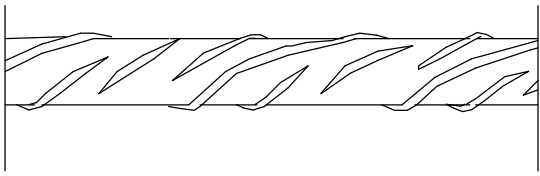
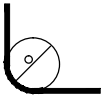
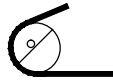
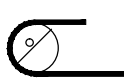
Fissurations sur éléments	Peu préjudiciable ☒	Préjudiciable ☒	Très préjudiciable ☐
	en général	En fondation	

INDICATIONS GENERALES

ACIERS

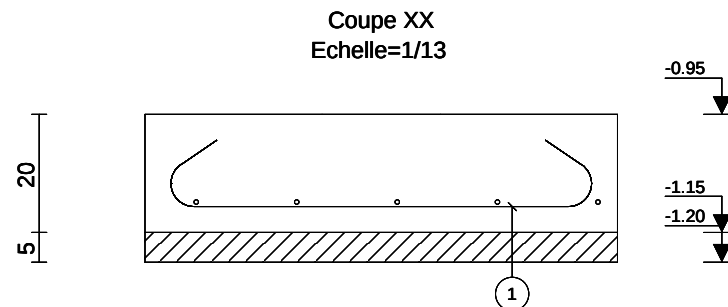
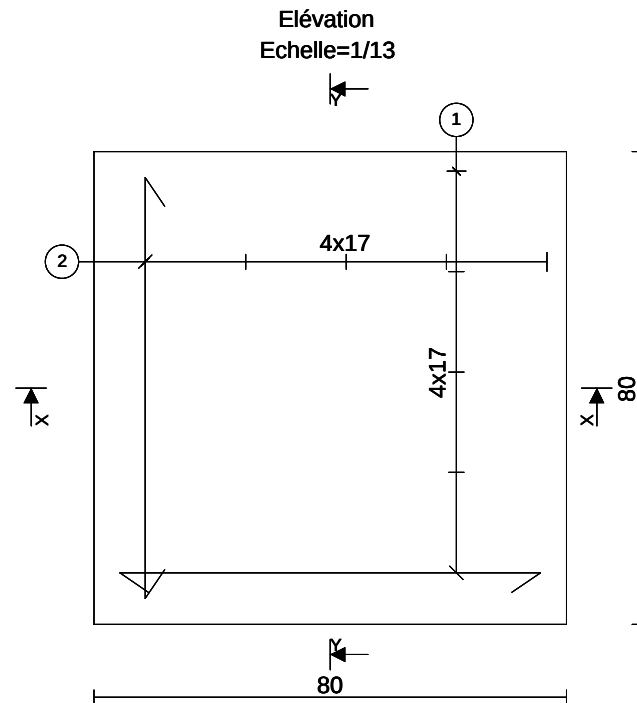
Aciers doux lisses nuance FeE215 type 1 indiqués par $\emptyset$
 Aciers à haute adhérence nuance FeE500 indiqués par HA
 conformes aux fiches d'identification CPC fascicule 4 titre 1.
 Aciers treillis soudés indiqués par TS – Type 4 $f_e=500$ MPa

FACONNAGE DES ACIERS A HAUTE ADHERENCE

Barres: $\emptyset$ nominaux en mm	6	8	10	12	14	16	20	25	32	40	
											
Diamètre des mandrins de cintrage en mm	A la main ou à la machine				A la machine						
Etriers et cadres	30	40	60	80							 
Ancrages	60	80	100	120	140	170	200	250	400	400	 
Coudes			140	170	200	250	320	400	600		

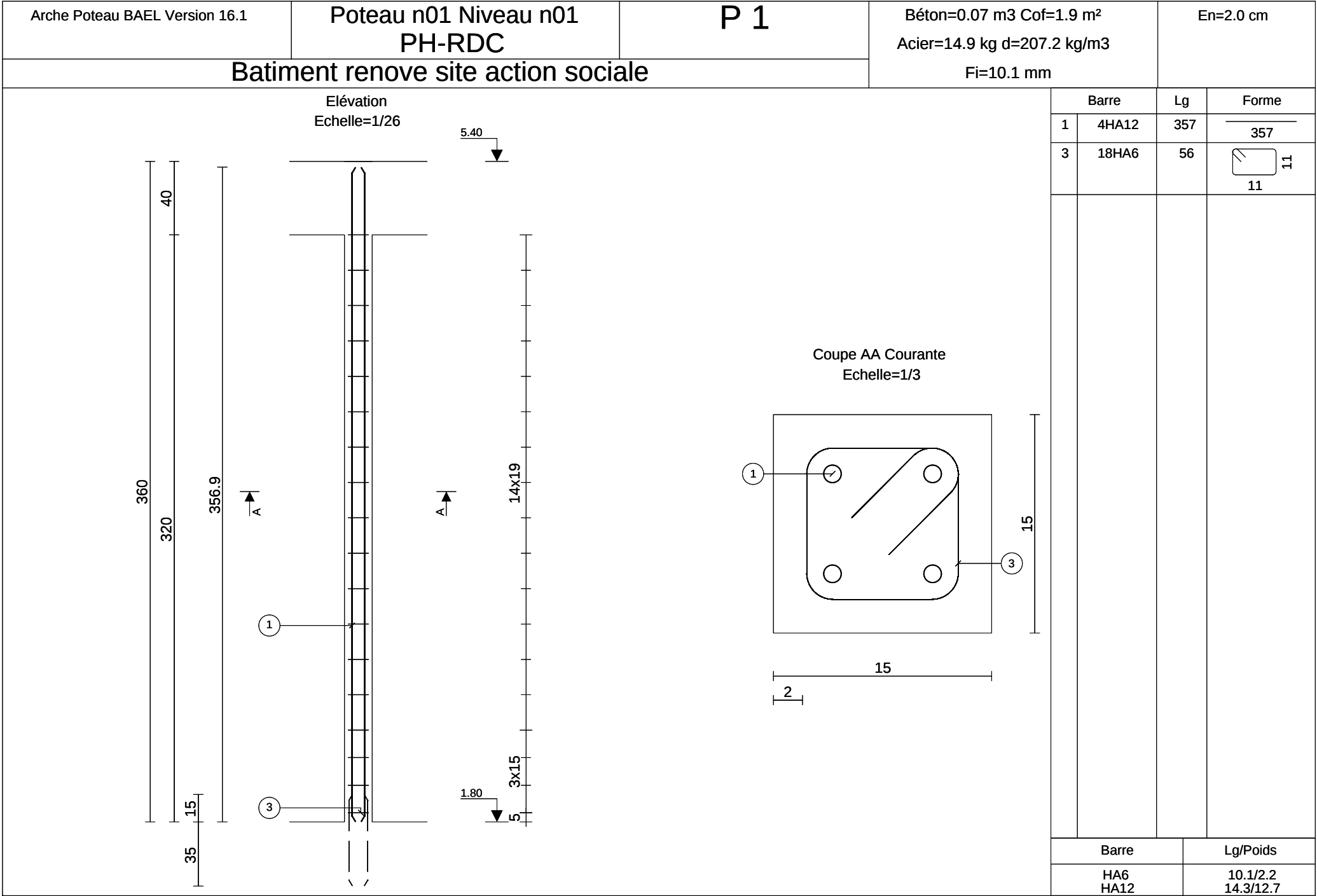
FERRAILLAGE DES SEMELLES

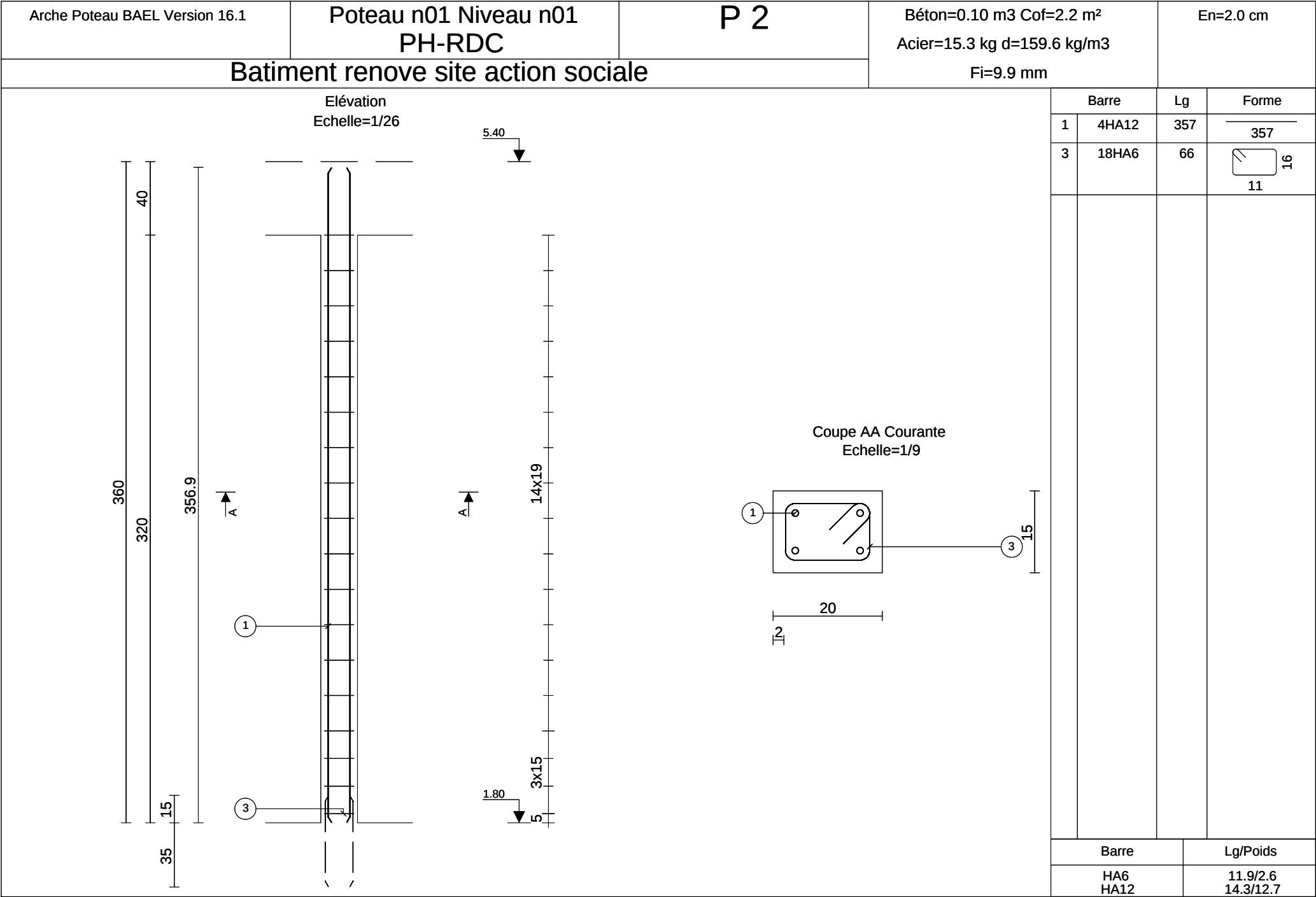
Batiment renove site action sociale

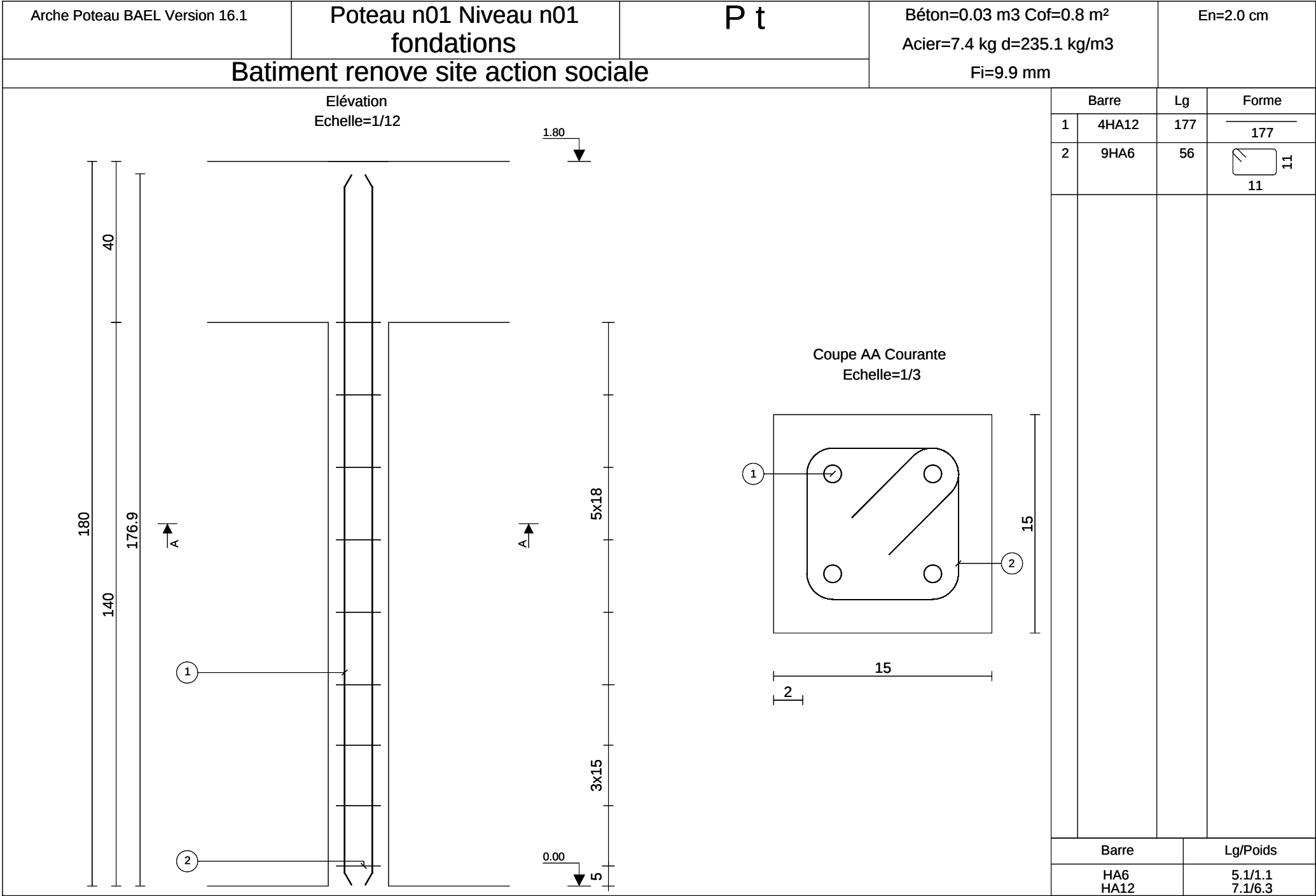


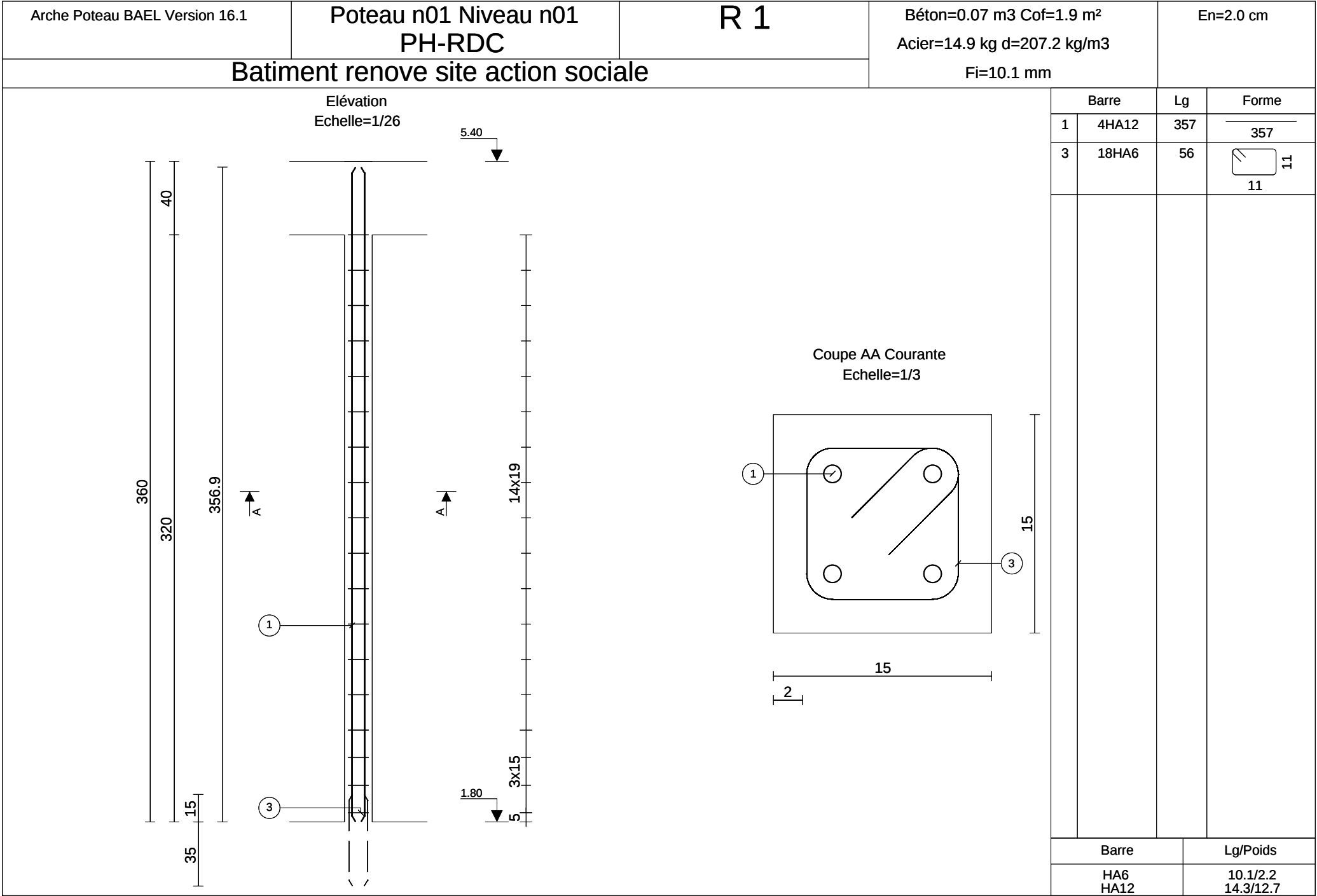
Barre		Lg	Forme
1	5HA8	98	 $146^\circ \quad 72 \quad 146^\circ$
2	5HA8	98	 $146^\circ \quad 72 \quad 146^\circ$
Barre		Lg/Poids	
HA8		9.8/3.9	

FERRAILLAGE DES POTEaux PLOTS ET RAIDISSEURS

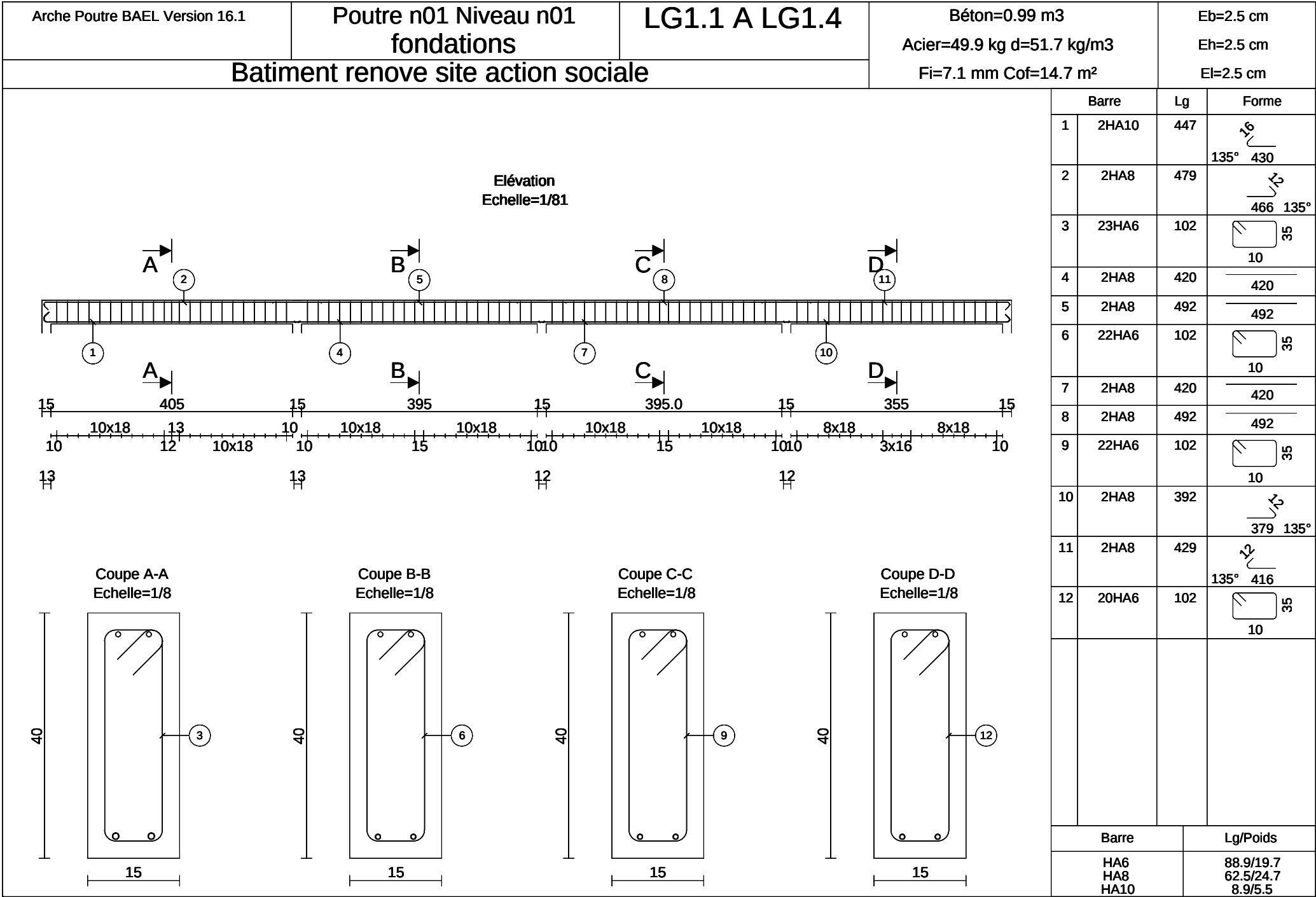


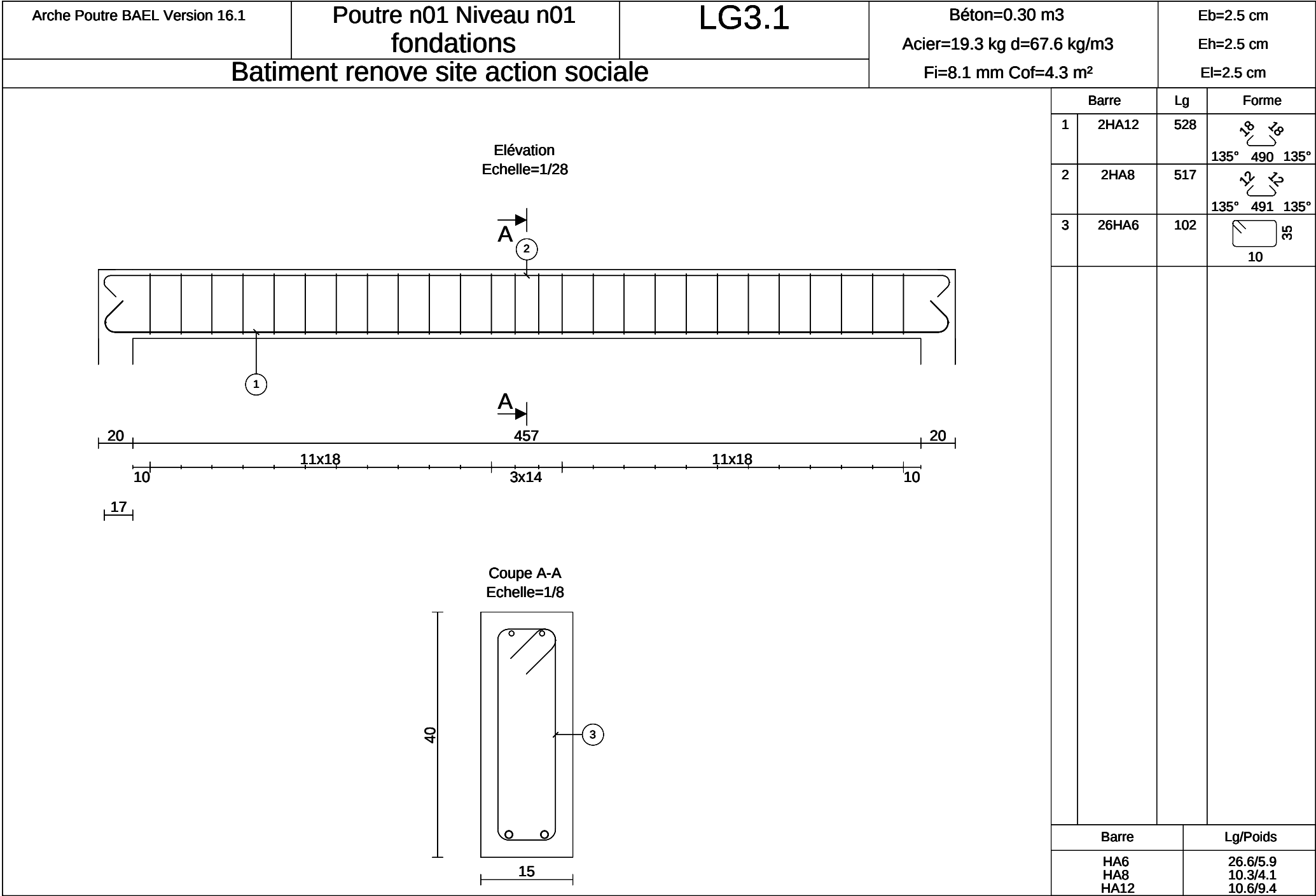


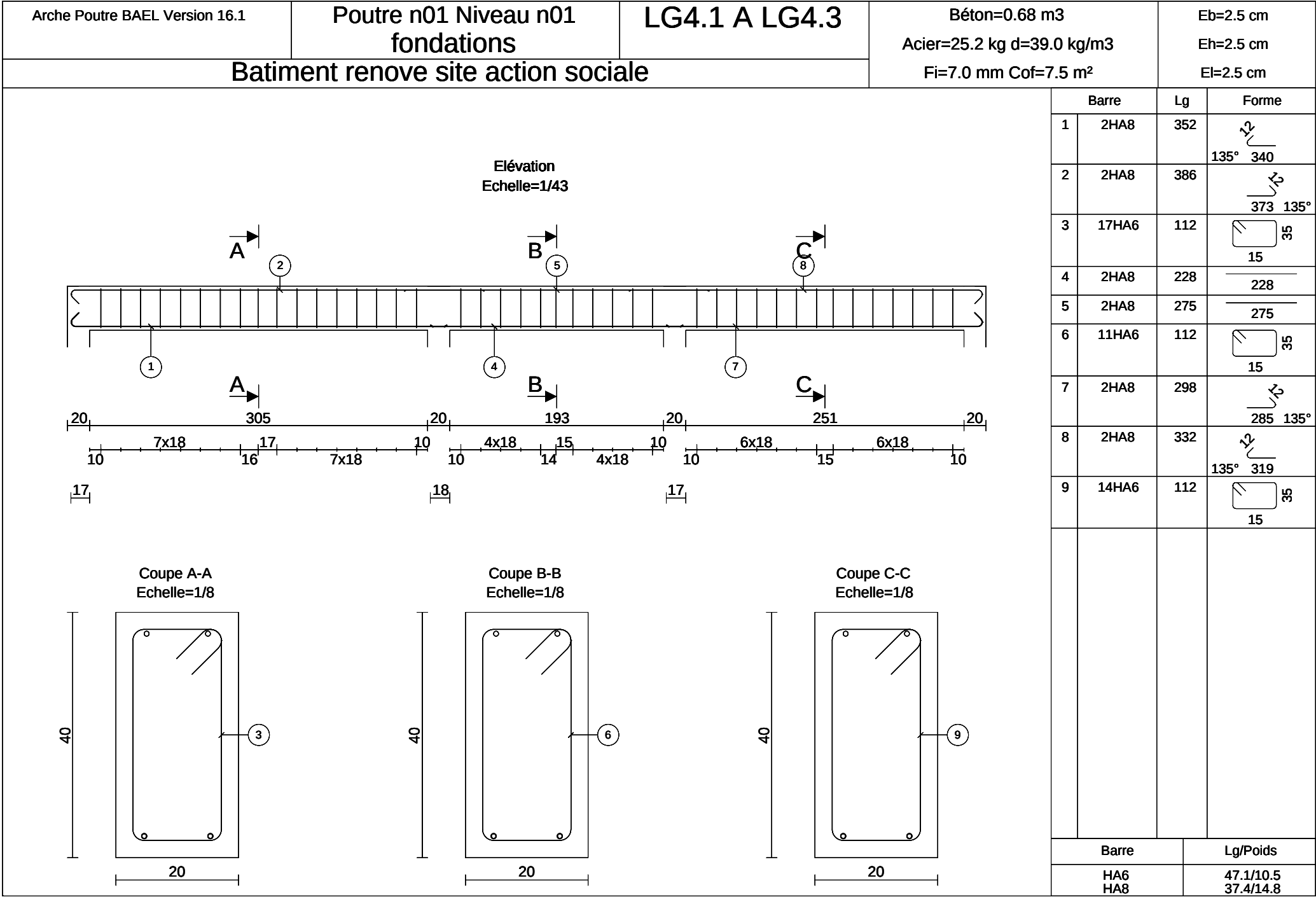




FERRAILLAGE DES LONGRINES

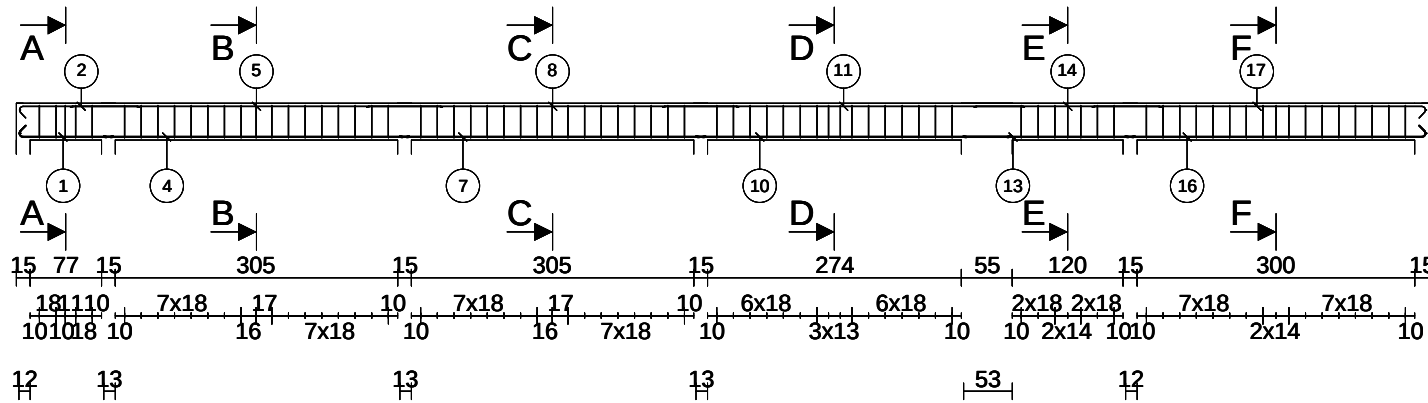




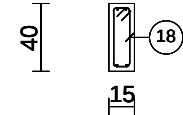


Arche Poutre BAEL Version 16.1	Poutre n01 Niveau n01 fondations	LG5.1 A LG5.6	Béton=0.95 m3 Acier=45.9 kg d=50.7 kg/m3 Fi=7.0 mm Cof=13.1 m²	Eb=2.5 cm Eh=2.5 cm El=2.5 cm
Batiment renove site action sociale				

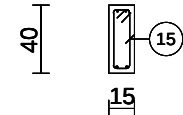
Elévation
Echelle=1/82



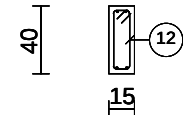
Coupe F-F
Echelle=1/44



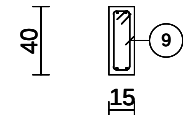
Coupe E-E
Echelle=1/44



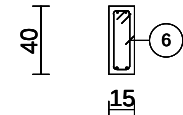
Coupe D-D
Echelle=1/44



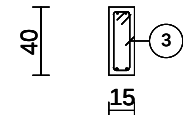
Coupe C-C
Echelle=1/44



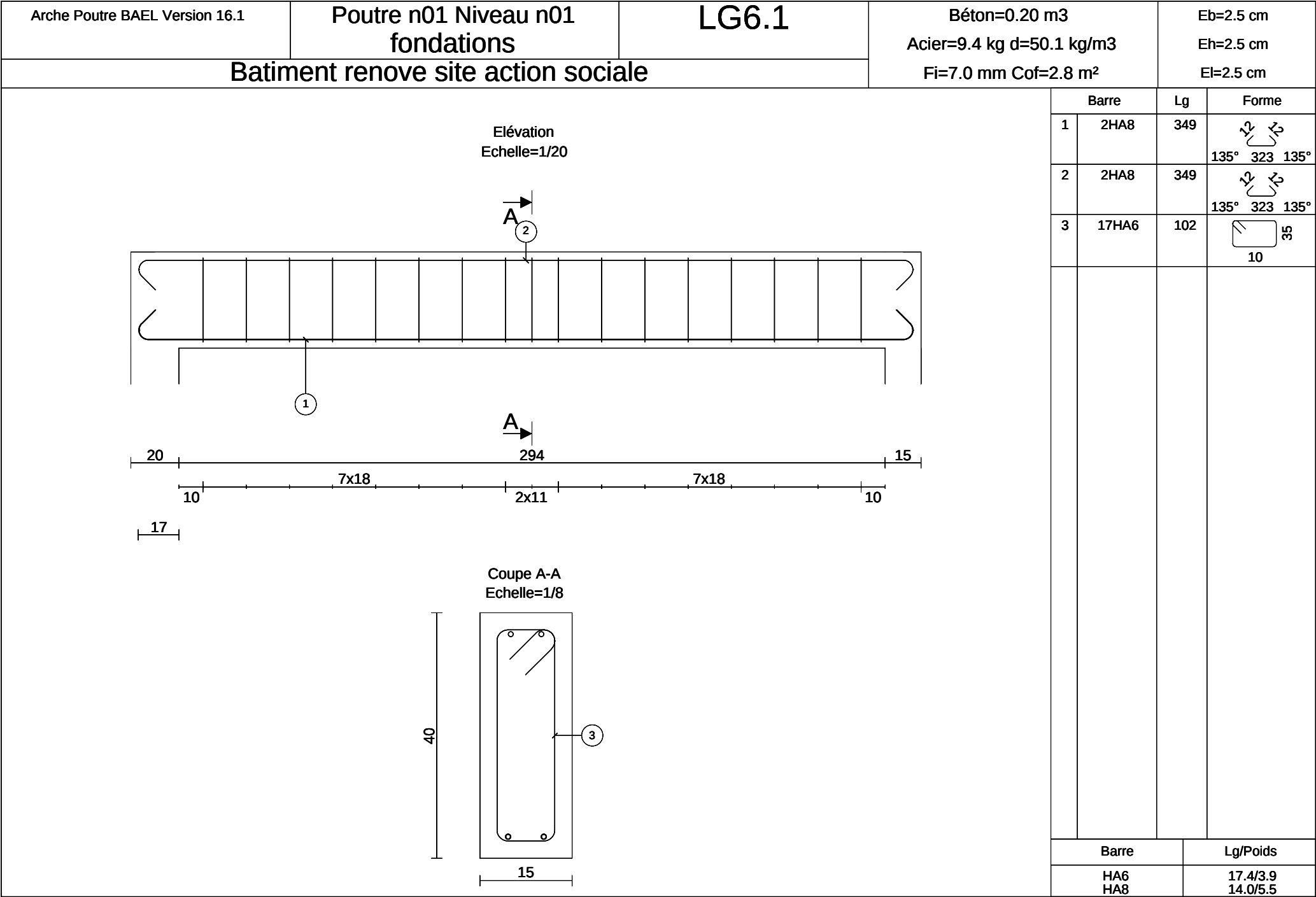
Coupe B-B
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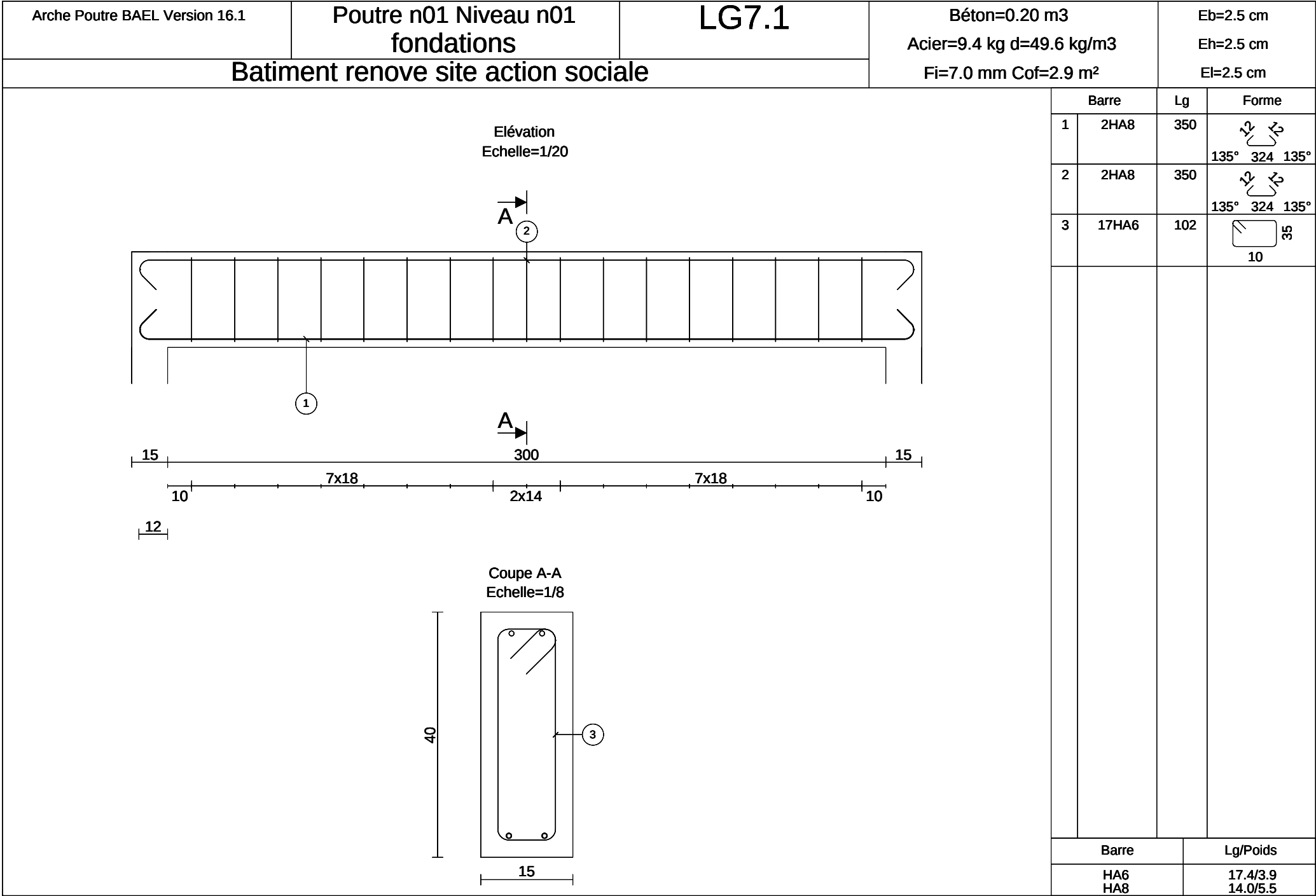


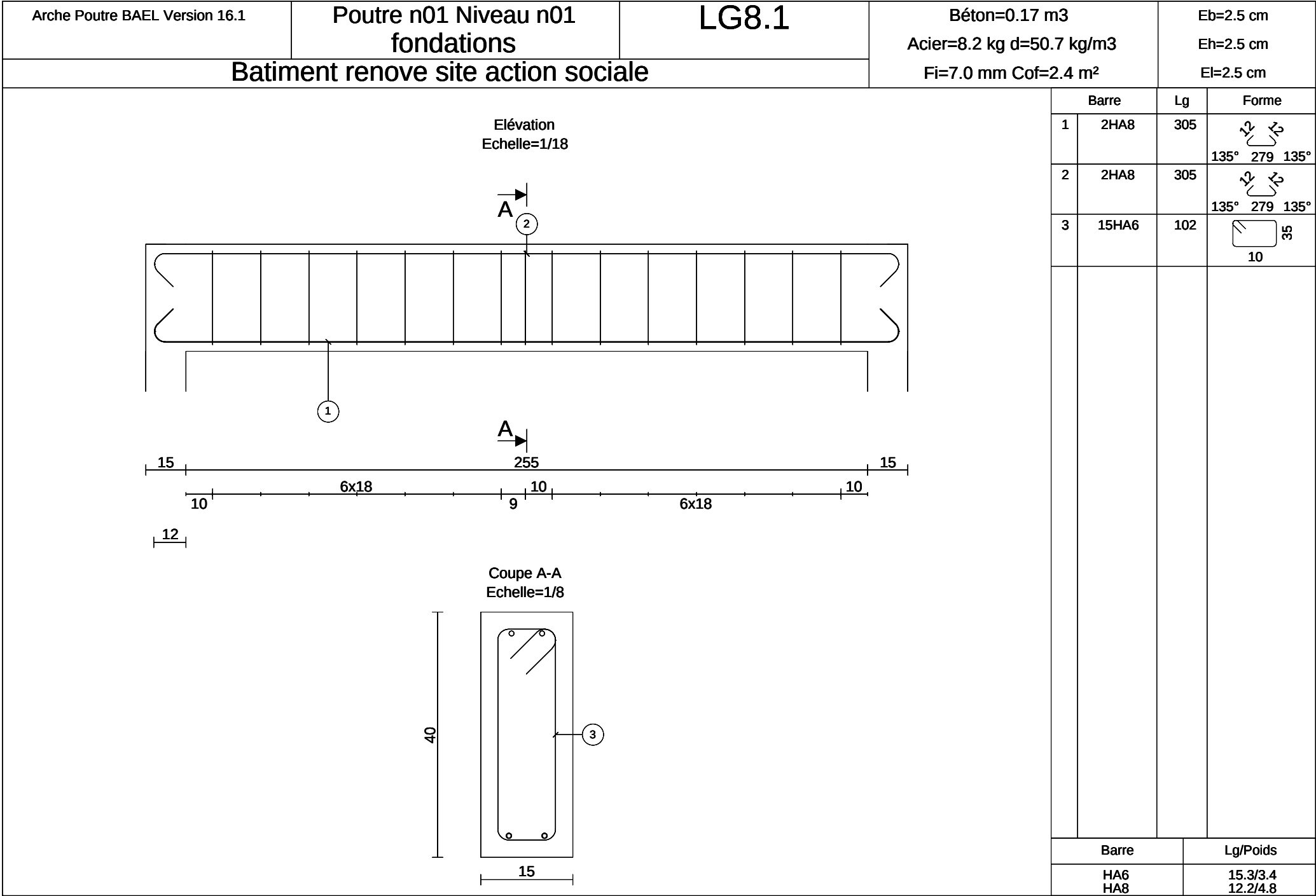
Coupe A-A
Echelle=1/44

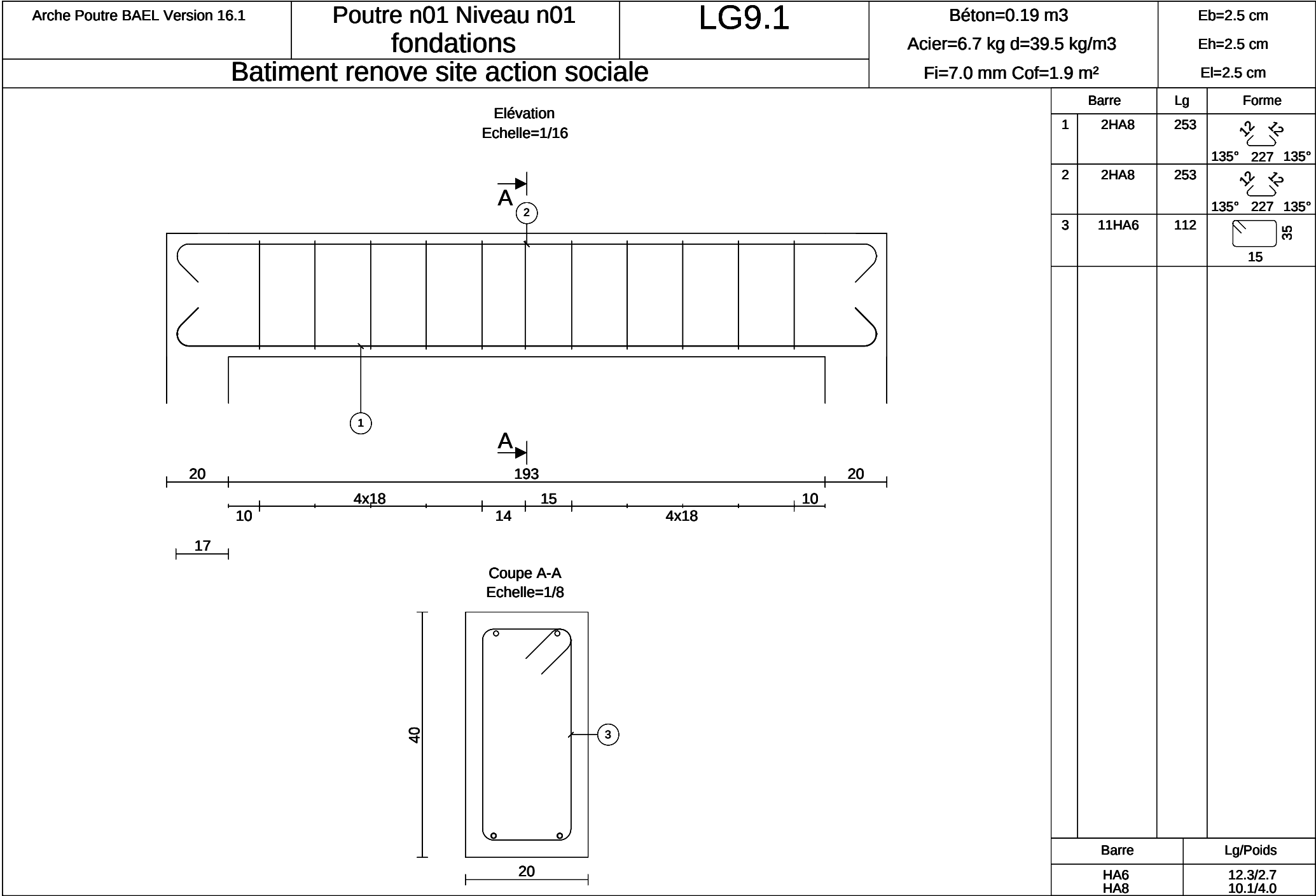


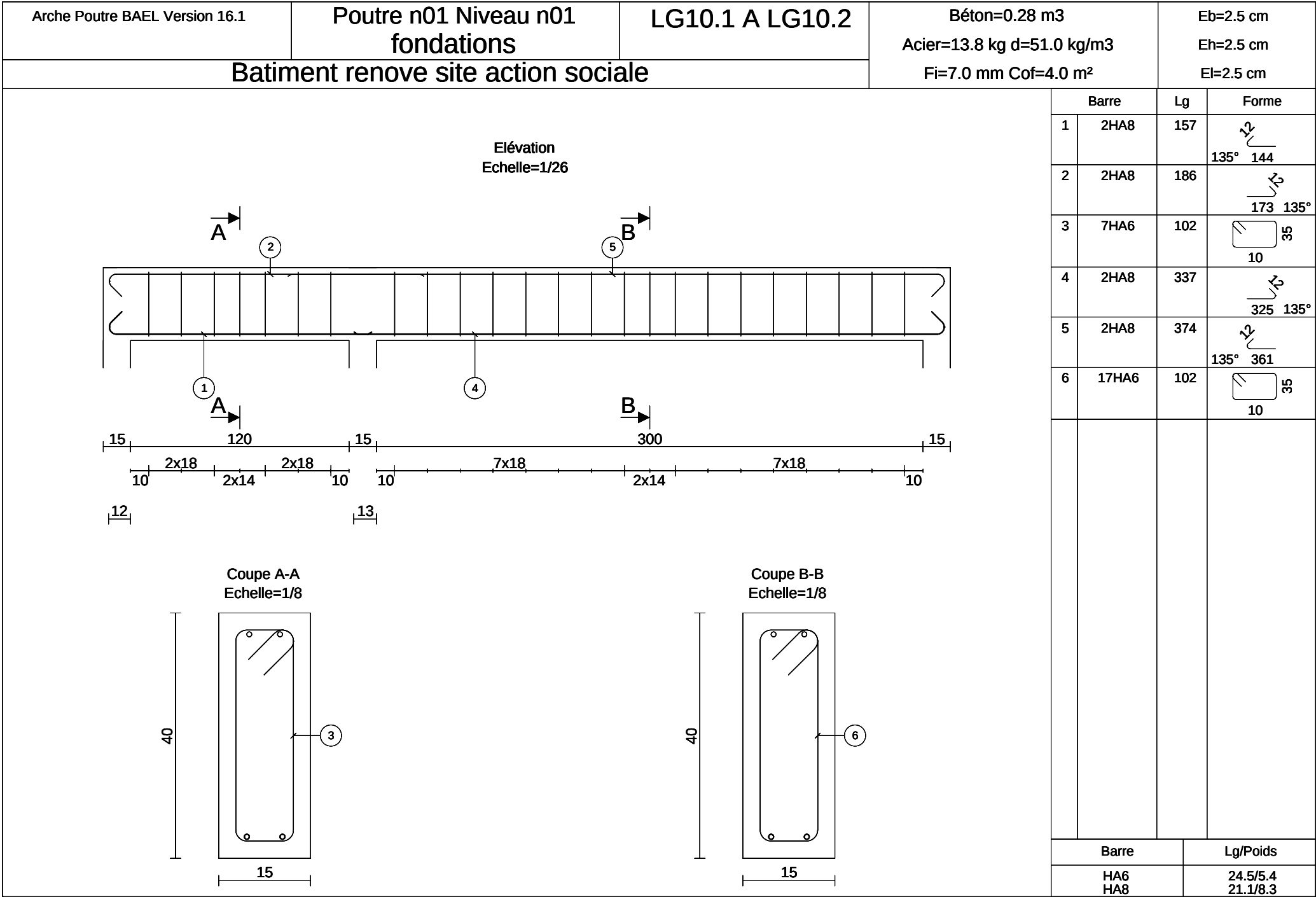
Barre	Lg	Forme	Barre	Lg	Forme	Barre	Lg	Forme	Barre	Lg	Forme	Barre	Lg	Forme
1	2HA8	114	5	2HA8	402	9	17HA6	102	13	2HA8	185	17	2HA8	374
2	2HA8	143	6	17HA6	102	10	2HA8	339	14	2HA8	202	18	17HA6	102
3	5HA6	102	7	2HA8	330	11	2HA8	391	15	7HA6	102			
4	2HA8	330	8	2HA8	402	12	16HA6	102	16	2HA8	337			
Barre		Lg/Poids	Barre		Lg/Poids	Barre		Lg/Poids	Barre		Lg/Poids	Barre		Lg/Poids
HA6		80.7/17.9	HA8		71.0/28.0									

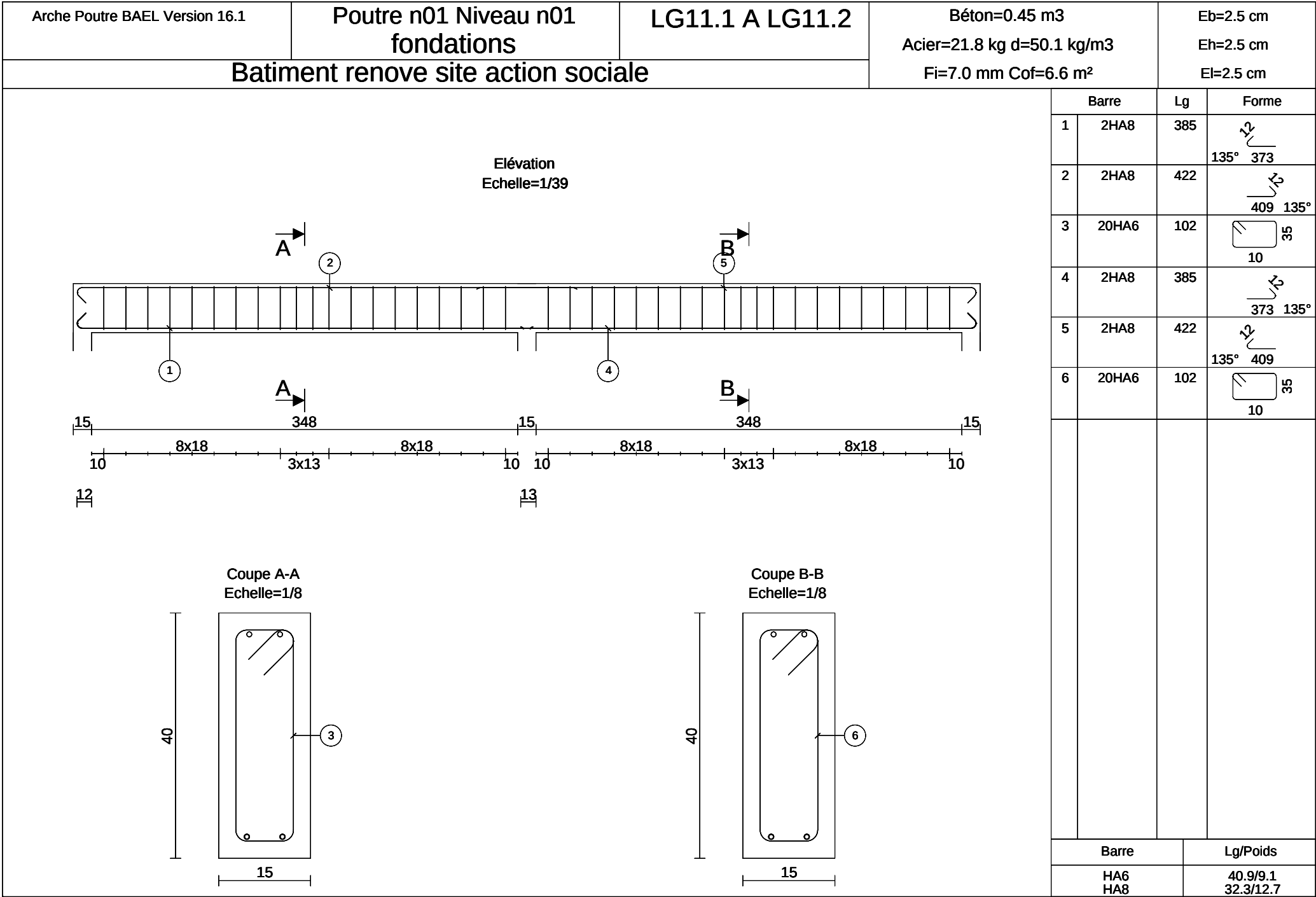


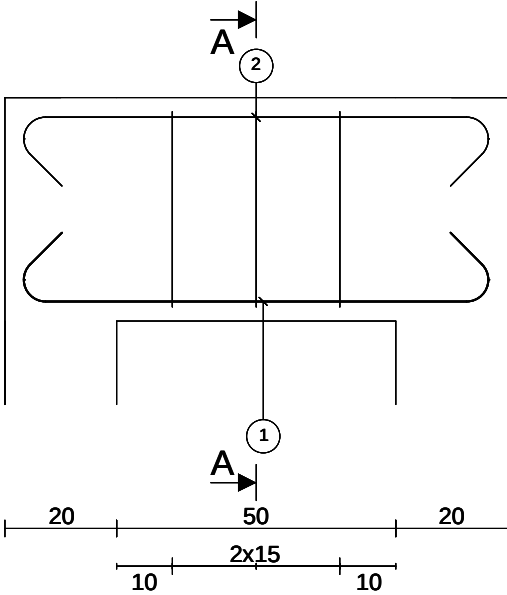
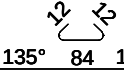
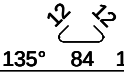
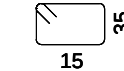










Arche Poutre BAEL Version 16.1	Poutre n02 Niveau n01 fondations	LG12.1	Béton=0.07 m3 Acier=2.5 kg d=44.3 kg/m3 Fi=7.2 mm Cof=0.5 m²		Eb=2.5 cm Eh=2.5 cm El=2.5 cm	
Batiment renove site action sociale						
Elévation Echelle=1/14  Coupe A-A Echelle=1/8			Barre		Lg	Forme
			1	2HA8	110	
			2	2HA8	110	
			3	3HA6	112	
			Barre		Lg/Poids	
HA6 HA8		3.4/0.7 4.4/1.7				