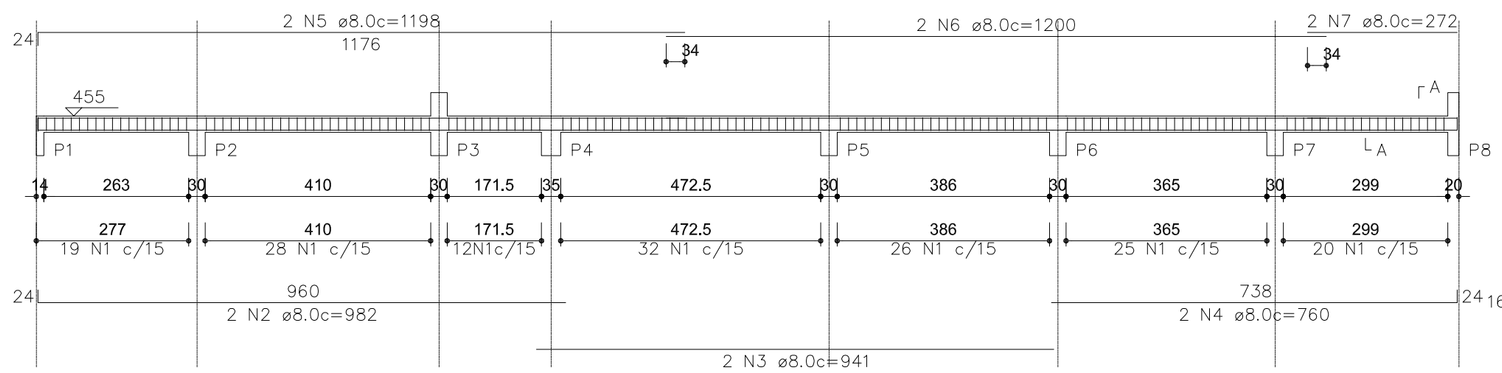
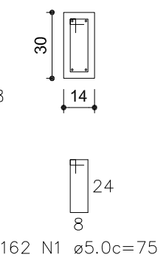
VP1 (14 x 30)
ESC 1:100

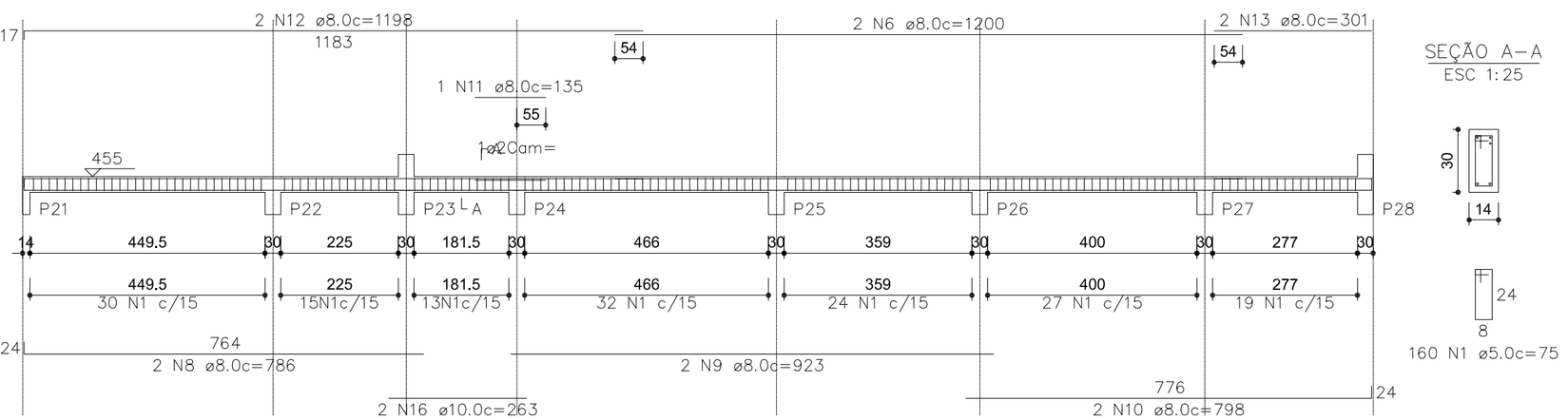


SEÇÃO A–A
ESC 1:25



162 N1 ø5.0c=75

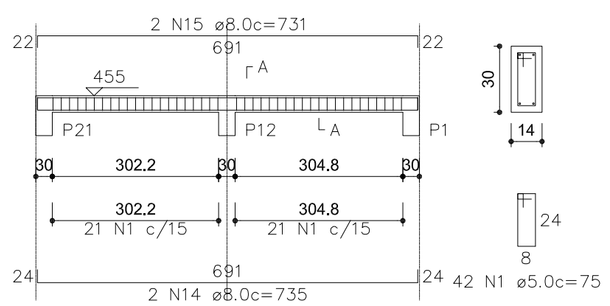
VP2 (14 x 30)
ESC 1:100



SEÇÃO A–A
ESC 1:25

160 N1 ø5.0c=75

VP3 (14 x 30)
ESC 1:100



SEÇÃO A–A
ESC 1:25

42 N1 ø5.0c=75

RELAÇÃO DO AÇO

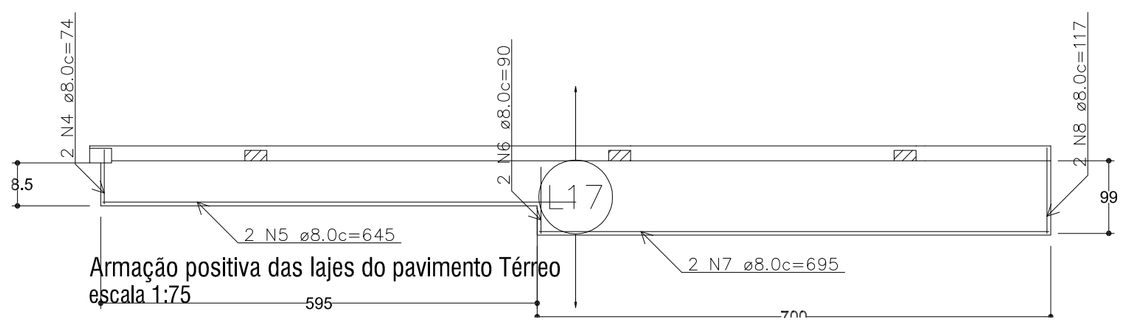
VP1 VP2 VP3

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	364	75	27300
CA50	2	8.0	2	982	1964
	3	8.0	2	941	1882
	4	8.0	2	760	1520
	5	8.0	2	1198	2396
	6	8.0	4	1200	4800
	7	8.0	2	272	544
	8	8.0	2	786	1572
	9	8.0	2	923	1846
	10	8.0	2	798	1596
	11	8.0	1	135	135
	12	8.0	2	1198	2396
	13	8.0	2	301	602
	14	8.0	2	735	1470
	15	8.0	2	731	1462
	16	10.0	2	263	526

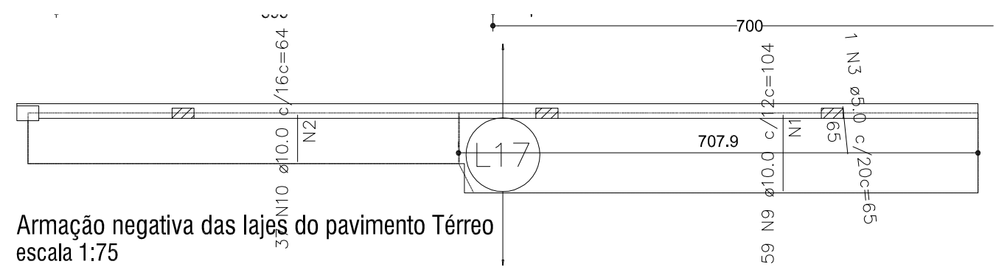
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO UNT. (kg/m)	PESO (kg)
CA50	8.0	241.8	0.395	95.5
	10.0	5.3	0.617	3.3
CA60	5.0	273	0.154	42.0
PESO TOTAL (kg)				
CA50	98.8			
CA60	42.0			

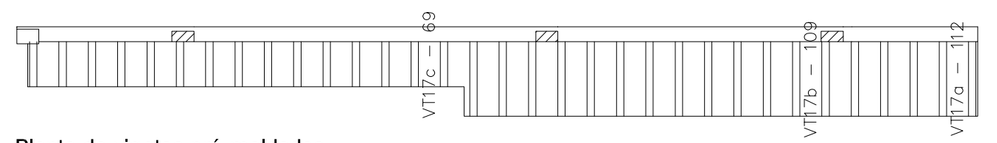
Volume de concreto (C–30) = 2.46 m³
Área de forma = 35.19 m²



Armação positiva das lajes do pavimento Térreo
escala 1:75

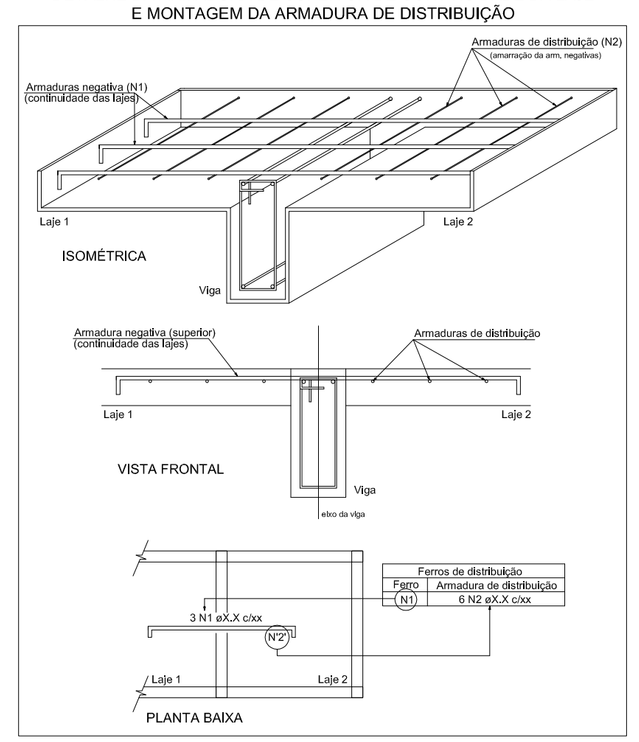


Armação negativa das lajes do pavimento Térreo
escala 1:75

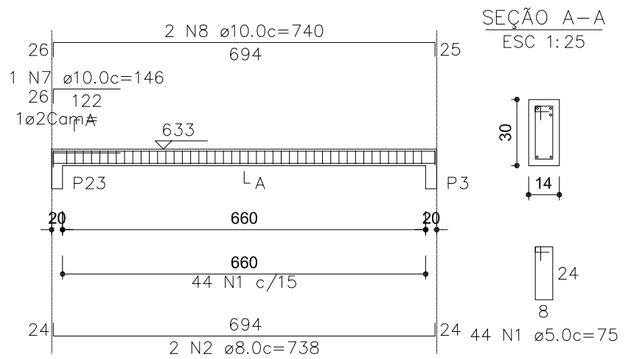


Planta de vigotas pré-moldadas
escala 1:75

DETALHE DA ARMADURA DE SUPERIOR DE CONTINUIDADE DA LAJE
E MONTAGEM DA ARMADURA DE DISTRIBUIÇÃO



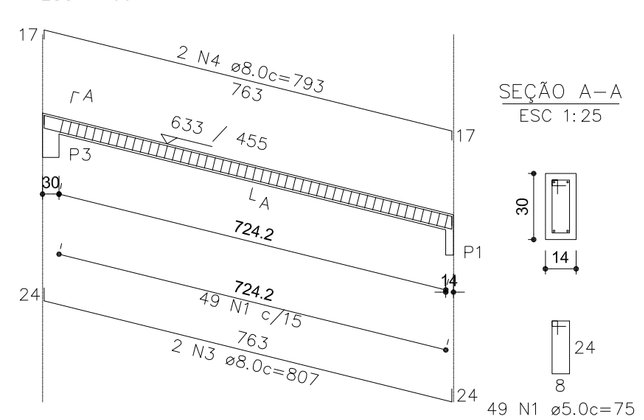
VP4 (14 x 30)
ESC 1:100



SEÇÃO A–A
ESC 1:25

44 N1 ø5.0c=75

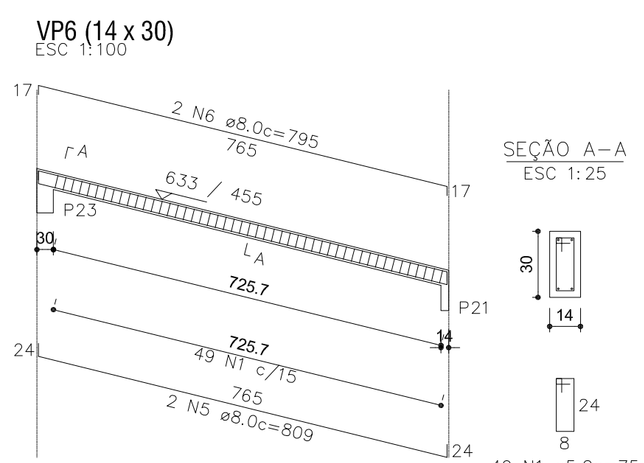
VP5 (14 x 30)
ESC 1:100



SEÇÃO A–A
ESC 1:25

49 N1 ø5.0c=75

VP6 (14 x 30)
ESC 1:100



SEÇÃO A–A
ESC 1:25

49 N1 ø5.0c=75

RELAÇÃO DO AÇO

VP4 VP5 VP6

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	142	75	10650
CA50	2	8.0	2	738	1476
	3	8.0	2	807	1614
	4	8.0	2	793	1586
	5	8.0	2	809	1618
	6	8.0	2	795	1590
	7	10.0	1	146	146
	8	10.0	2	740	1480

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO UNT. (kg/m)	PESO (kg)
CA50	8.0	78.8	0.395	31.1
	10.0	16.3	0.617	10.1
CA60	5.0	106.5	0.154	16.4
PESO TOTAL (kg)				
CA50	41.2			
CA60	16.4			

Volume de concreto (C–30) = 0.94 m³
Área de forma = 13.45 m²

RELAÇÃO DO AÇO

Negativos Positivos

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	7	708	4956
	2	5.0	4	588	2352
	3	5.0	1	65	65
CA50	4	8.0	2	74	148
	5	8.0	2	645	1290
	6	8.0	2	90	180
	7	8.0	2	695	1390
	8	8.0	2	117	234
	9	10.0	59	104	6136
	10	10.0	37	64	2368

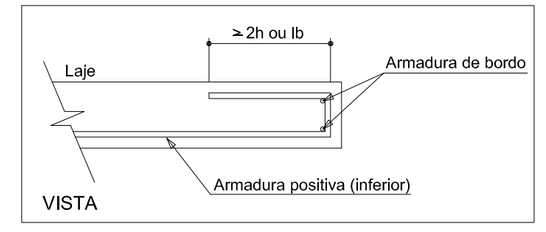
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO UNT. (kg/m)	PE (k
CA50	8.0	32.4	0.395	1
	10.0	85	0.617	5
CA60	5.0	73.7	0.154	1
PESO TOTAL (kg)				
CA50	71.7			
CA60	12.5			

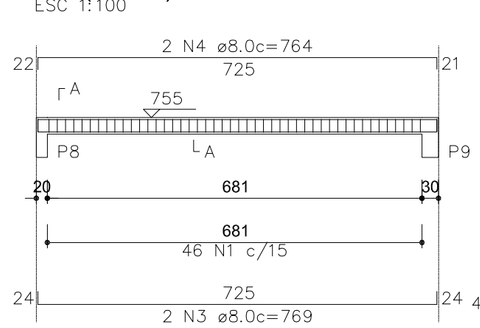
Volume de concreto (C–30) = 0.63 m³
Área de forma = 0.00 m²

Armaduras de distribuição	
Armadura	Armadura de distribuição
N9	7 N1 ø5.0 c/15c=708
N10	4 N2 ø5.0 c/20c=588

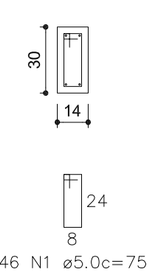
DETALHE DA ARMADURA
DE BORDO LIVRE DA LAJE



VP1 (14 x 30)
ESC 1:100

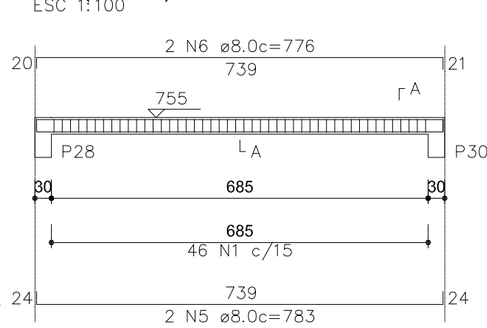


SEÇÃO A–A
ESC 1:25

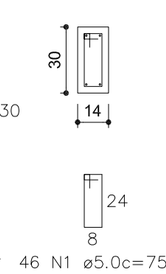


46 N1 ø5.0c=75

VP2 (14 x 30)
ESC 1:100

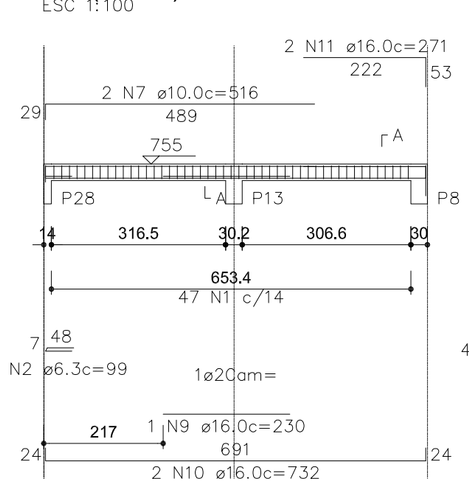


SEÇÃO A–A
ESC 1:25

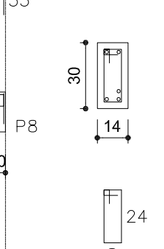


46 N1 ø5.0c=75

VP3 (14 x 30)
ESC 1:100

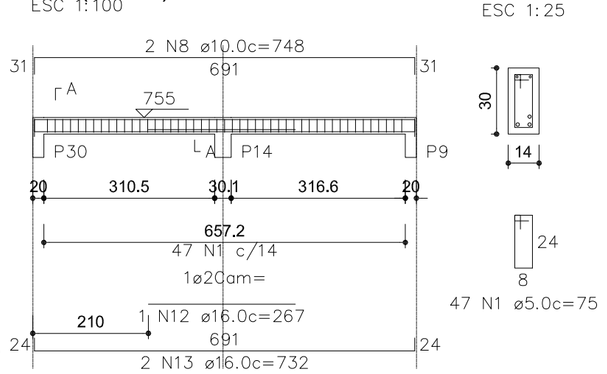


SEÇÃO A–A
ESC 1:25

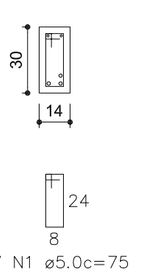


47 N1 ø5.0c=75

VP4 (14 x 30)
ESC 1:100



SEÇÃO A–A
ESC 1:25



47 N1 ø5.0c=75

RELAÇÃO DO AÇO

VP1 VP2 VP3
VP4

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	186	75	13950
CA50	2	6.3	1	99	99
	3	8.0	2	769	1538
	4	8.0	2	764	1528
	5	8.0	2	783	1566
	6	8.0	2	776	1552
	7	10.0	2	516	1032
	8	10.0	2	748	1496
	9	16.0	1	230	230
	10	16.0	2	732	1464
	11	16.0	2	271	542
	12	16.0	1	267	267
	13	16.0	2	732	1464

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO UNT. (kg/m)	PESO (kg)
CA50	6.3	1	0.245	0.2
	8.0	61.8	0.395	24.4
	10.0	25.3	0.617	15.6
	16.0	39.7	1.578	62.6
CA60	5.0	139.5	0.154	21.5
PESO TOTAL (kg)				
CA50	102.8			
CA60	21.5			

Volume de concreto (C–30) = 1.21 m³
Área de forma = 17.22 m²

Assessoria Técnica em Engenharia Civil Ltda.
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Fone: (44)3624-7775
Av. Pirapó, 5538 – Zona 03, CEP– 87502-140, Umuarama – PR

PROJETO ESTRUTURAL

FOLHA 10/10

OBRA
CENTRO DE REFERÊNCIA A ASSISTÊNCIA SOCIAL

CONTEÚDO
- DETALHES VIGAS PLATIBANDA 1;
- DETALHES VIGAS PLATIBANDA 2;
- DETALHES VIGAS PLATIBANDA 1;
- DETALHES LAJE
- LEGENDAS;

PROPRIETÁRIO
MUNICÍPIO DE PEROLA CNPJ: 81.478.133/0001-7

ESCALA INDICADA
DATA FEVEREIRO/2019
Nº CONTRATO 1046257-40

LOCAL
RUA BERNARDINO DE CAMPOS N:750 - LOTE 2-A1 - Q134

PROJETO

ADEMAR AMÉRICO CAMOSSATO
ENGº CIVIL CREA 24080-D/PR

MUNICÍPIO DE PEROLA
CNPJ: 81.478.133/0001-7