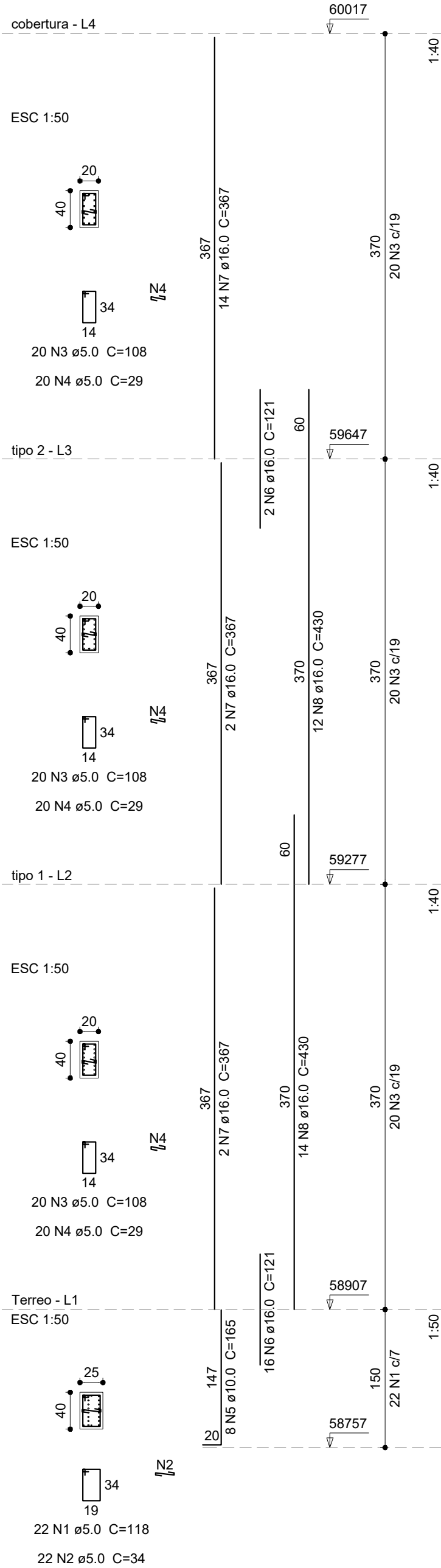
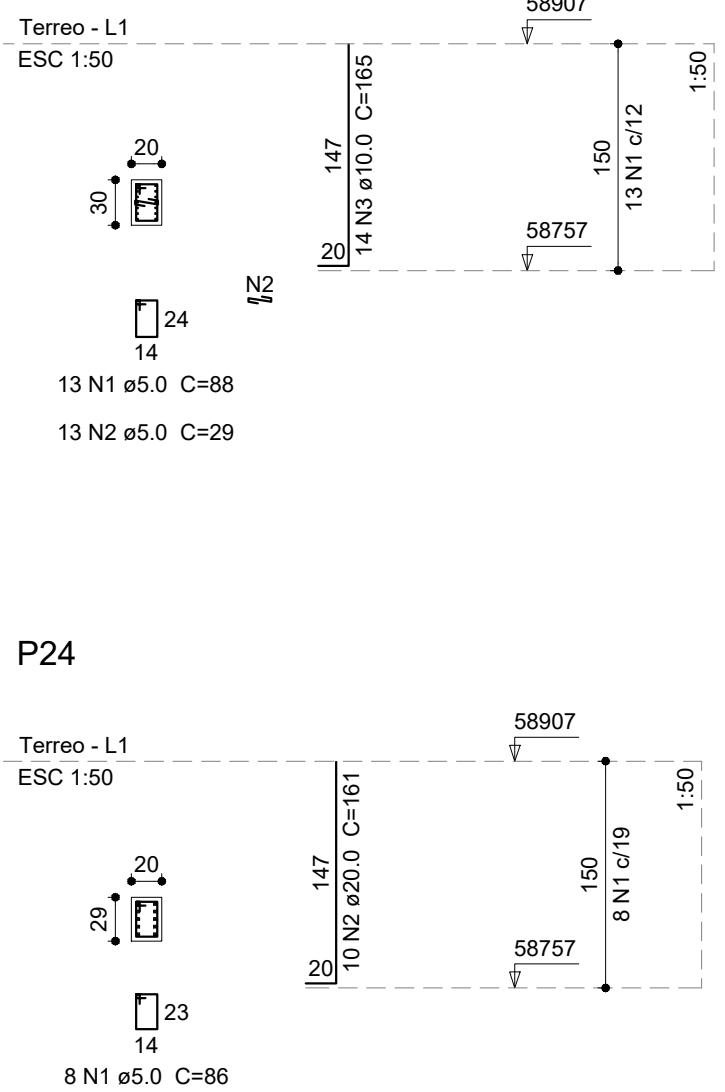


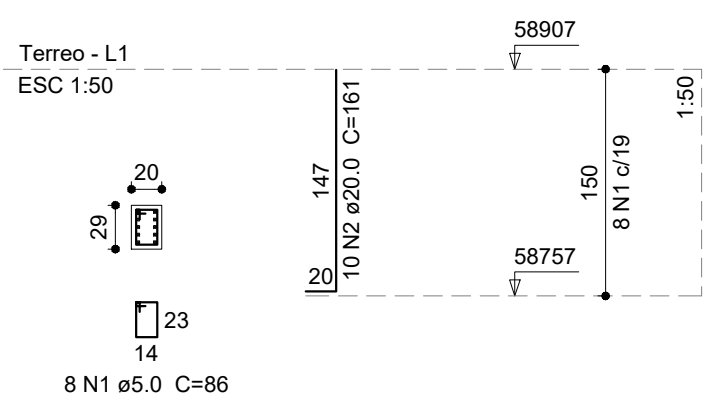
P18



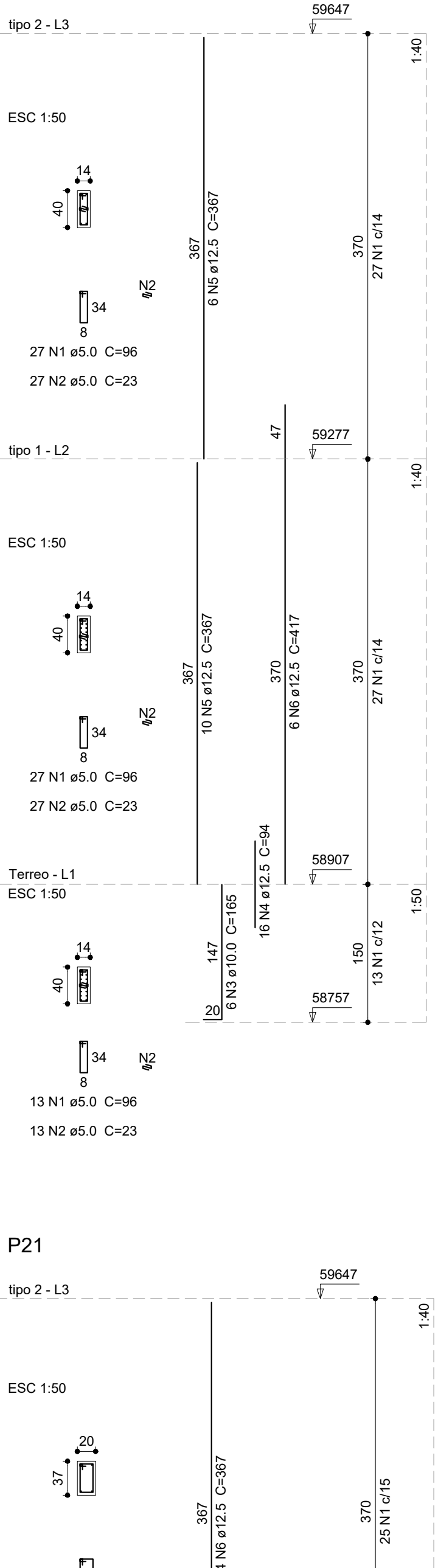
P20



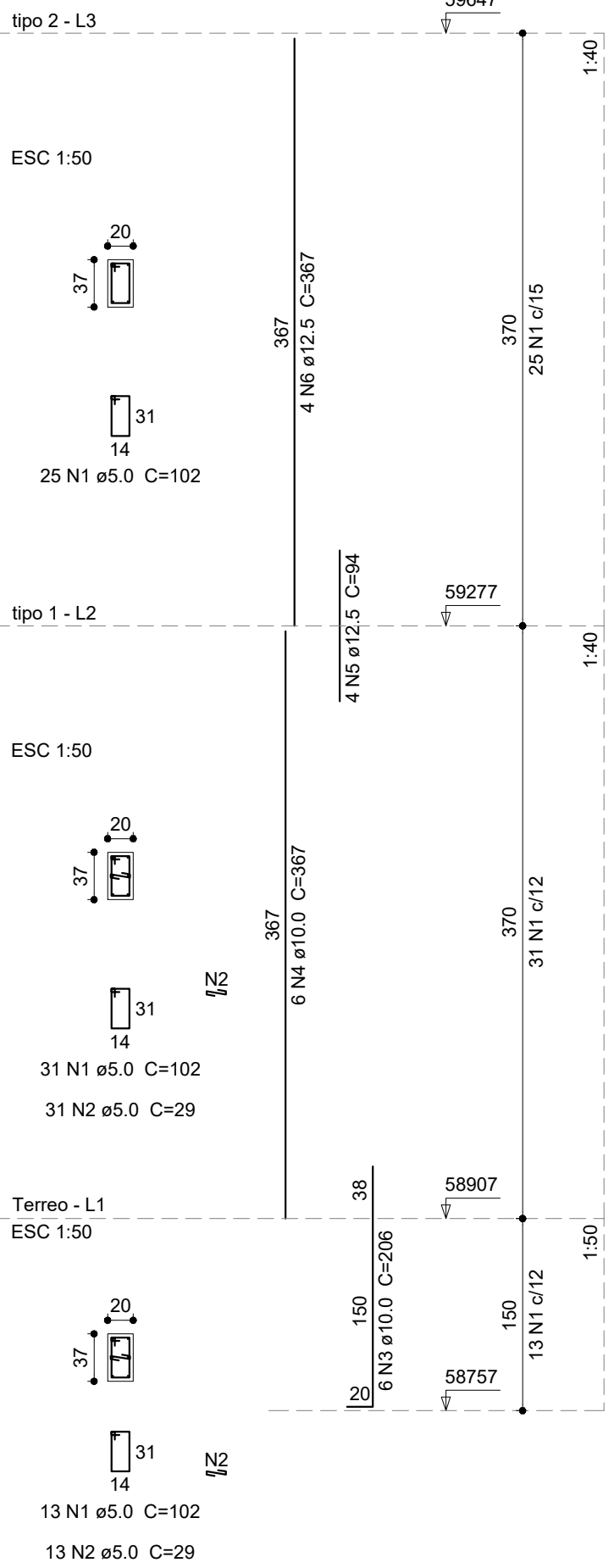
P24



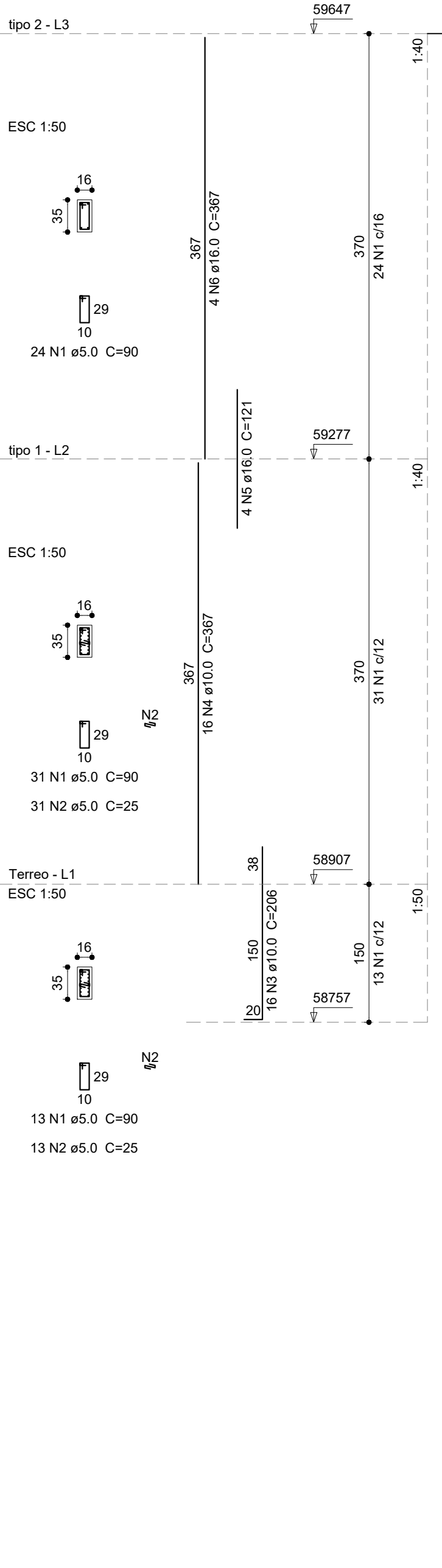
P19



P21



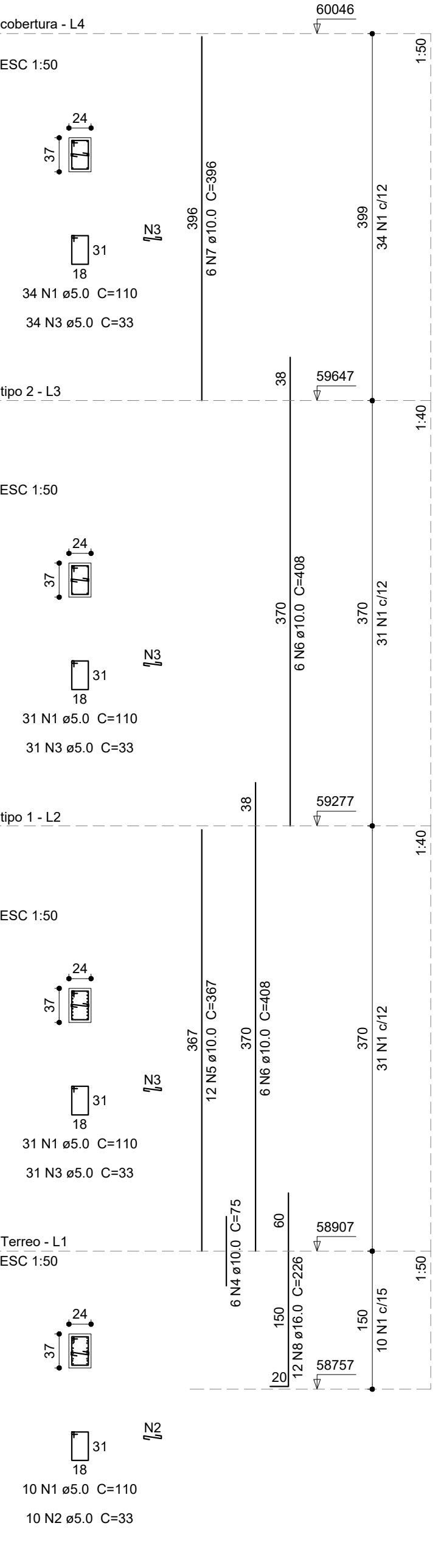
P22



P25



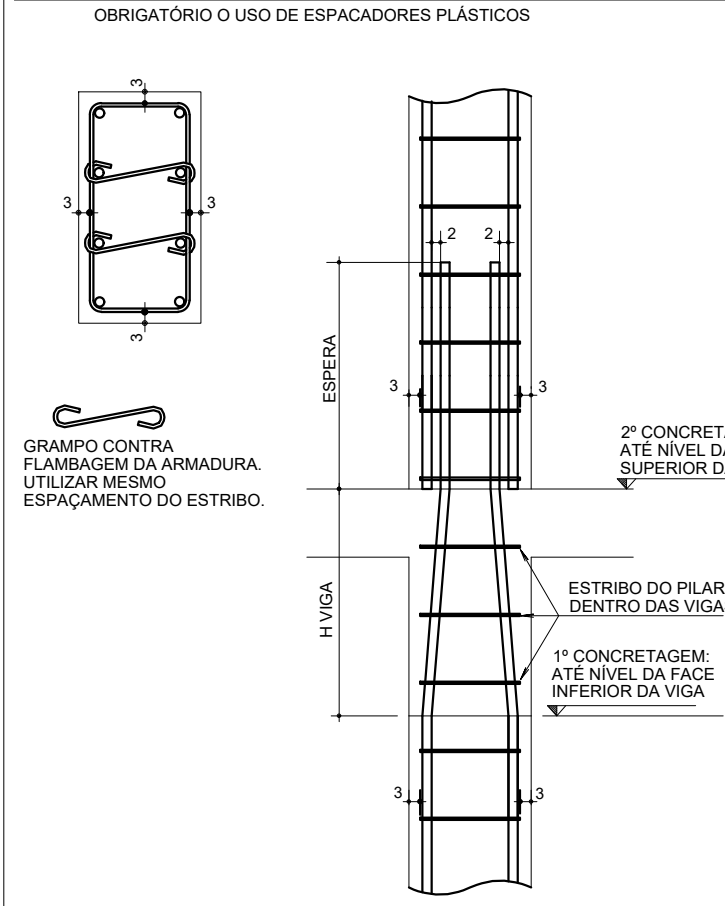
P26



P27



DET. TÍPICO COBRIMENTO E POSICIONAMENTO ARM. EM PILARES



Relação do aço

ELEMENTO	AÇO	N	DIAM	Q	UNIT (cm)	C TOTAL (cm)
P18	CA60	1	5.0	22	118	2596
	CA60	2	5.0	22	34	748
	CA60	3	5.0	60	108	6480
	CA60	4	5.0	60	29	1740
	CA50	5	10.0	8	165	1320
	CA50	6	16.0	18	121	2178
	CA50	7	16.0	18	367	6606
	CA50	8	16.0	26	430	11180
P19	CA60	1	5.0	67	96	6432
	CA60	2	5.0	67	23	1541
	CA50	3	10.0	6	165	890
	CA50	4	12.5	16	94	1504
	CA50	5	12.5	16	367	5872
	CA50	6	12.5	6	417	2502
	CA60	1	5.0	13	86	1144
	CA60	2	5.0	13	29	377
P20	CA50	9	10.0	14	165	2310
	CA60	1	5.0	69	102	7038
	CA60	2	5.0	44	29	1276
	CA50	3	10.0	6	208	1296
	CA50	4	10.0	6	367	2202
	CA50	5	12.5	4	94	376
	CA50	6	12.5	4	367	1468
	CA60	1	5.0	68	90	6120
P22	CA60	2	5.0	44	25	1100
	CA50	3	10.0	16	206	3296
	CA50	4	10.0	16	367	5872
	CA50	5	16.0	4	121	484
	CA50	6	16.0	4	367	1468
	CA60	1	5.0	6	86	688
	CA50	2	20.0	10	161	1610
	CA60	1	5.0	108	110	1160
P24	CA60	2	5.0	10	33	330
	CA50	3	5.0	96	33	3168
	CA50	4	10.0	6	75	450
	CA50	5	10.0	12	367	4404
	CA50	6	10.0	12	408	4896
	CA50	7	10.0	6	396	2376
	CA60	8	16.0	12	226	2712
	CA60	1	5.0	86	118	11308
P25	CA60	2	5.0	69	36	2484
	CA50	3	10.0	4	75	300
	CA50	4	10.0	20	367	7340
	CA50	5	12.5	18	214	3424
	CA50	6	12.5	16	417	6672
	CA50	7	20.0	10	151	1510
	CA50	8	20.0	10	367	3670
	CA60	1	5.0	92	116	10672
P26	CA60	2	5.0	65	36	2340
	CA50	4	16.0	2	121	242
	CA50	5	16.0	10	430	4300
	CA50	6	16.0	12	367	4404
	CA50	7	20.0	8	151	1208
	CA50	8	20.0	8	367	2936
	CA50	9	10.0	14	165	2310
	CA60	1	5.0	69	102	7038
P27	CA60	2	5.0	44	29	1276
	CA50	3	10.0	6	208	1296
	CA50	4	10.0	6	367	2202
	CA50	5	12.5	4	94	376
	CA50	6	12.5	4	367	1468
	CA60	1	5.0	68	90	6120
	CA60	2	5.0	44	25	1100
	CA50	3	10.0	16	206	3296

Resumo do aço

AÇO	DIAM	C TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	370	250.9
	12.5	218.2	231.2
	16.0	358.4	622.1
	20.0	100.4	286.6
CA60	5.0	702.7	134.4
PESO TOTAL			
CA50	1400.8		
CA60	134.4		

Vol. de concreto total (C-25) = 6.57 m³
Área de forma total = 95.31 m²

NOTAS

- 1 - Concretos ts = 25MPa (C25)
- 2 - Cobrimento mínimo das armaduras:
Vigas = 3cm
Pilares = 3cm
Lajes = 2.5cm
- 3 - Abatimento (alump) máx. 6cm
- 4 - Fator equalização máx. 0.50
- 5 - As formas devem estar totalmente limpas e saturadas com água antes da concretagem
- 6 - Dimensões e cotas em cm
batidas em mm.

PROJETO EXECUTIVO PILARES 3-3	DESENHO 12/03/16	ARQUIVO CEL_121_PIL_PILARES_3-3_P27.P27	ESCALA NOMINAL
PROJETO EXECUTIVO PILARES 3-3	DESENHO 12/03/16	ARQUIVO CEL_121_PIL_PILARES_3-3_P27.P27	ESCALA NOMINAL