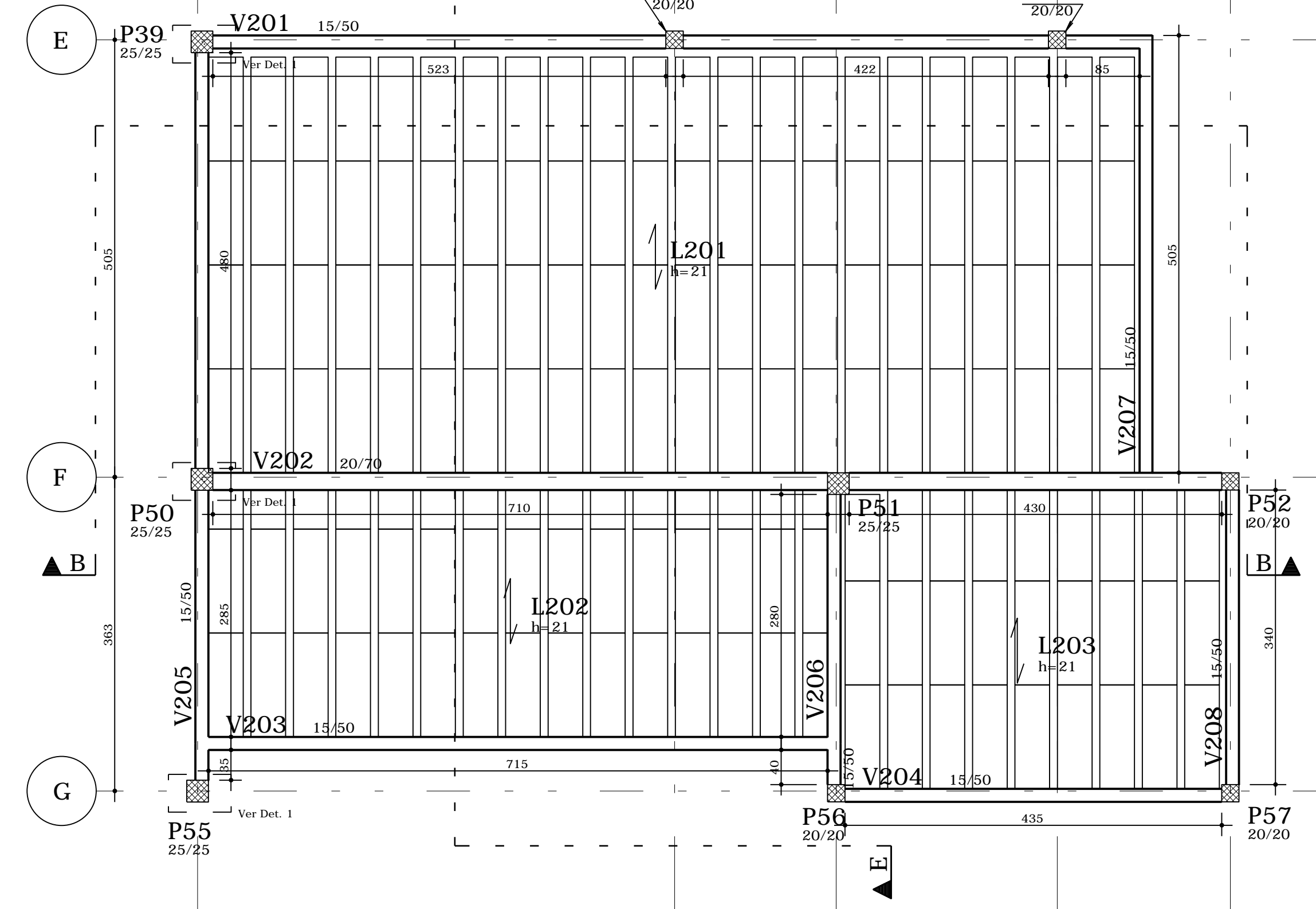


FORMAS DO NÍVEL +515cm

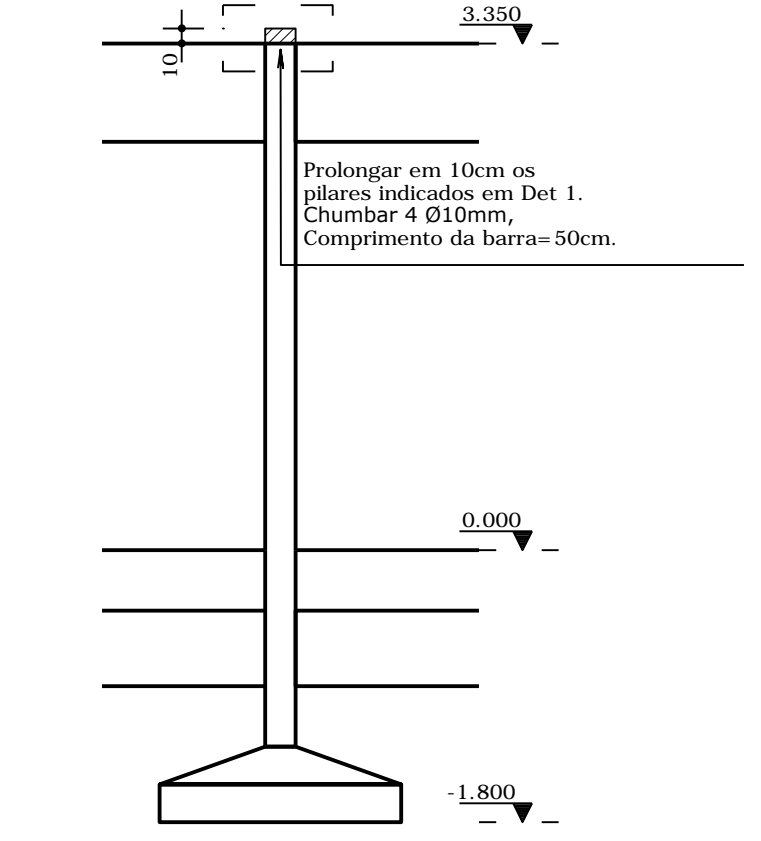
+ 335cm

ESCALA: 1/50



Detalhe 1

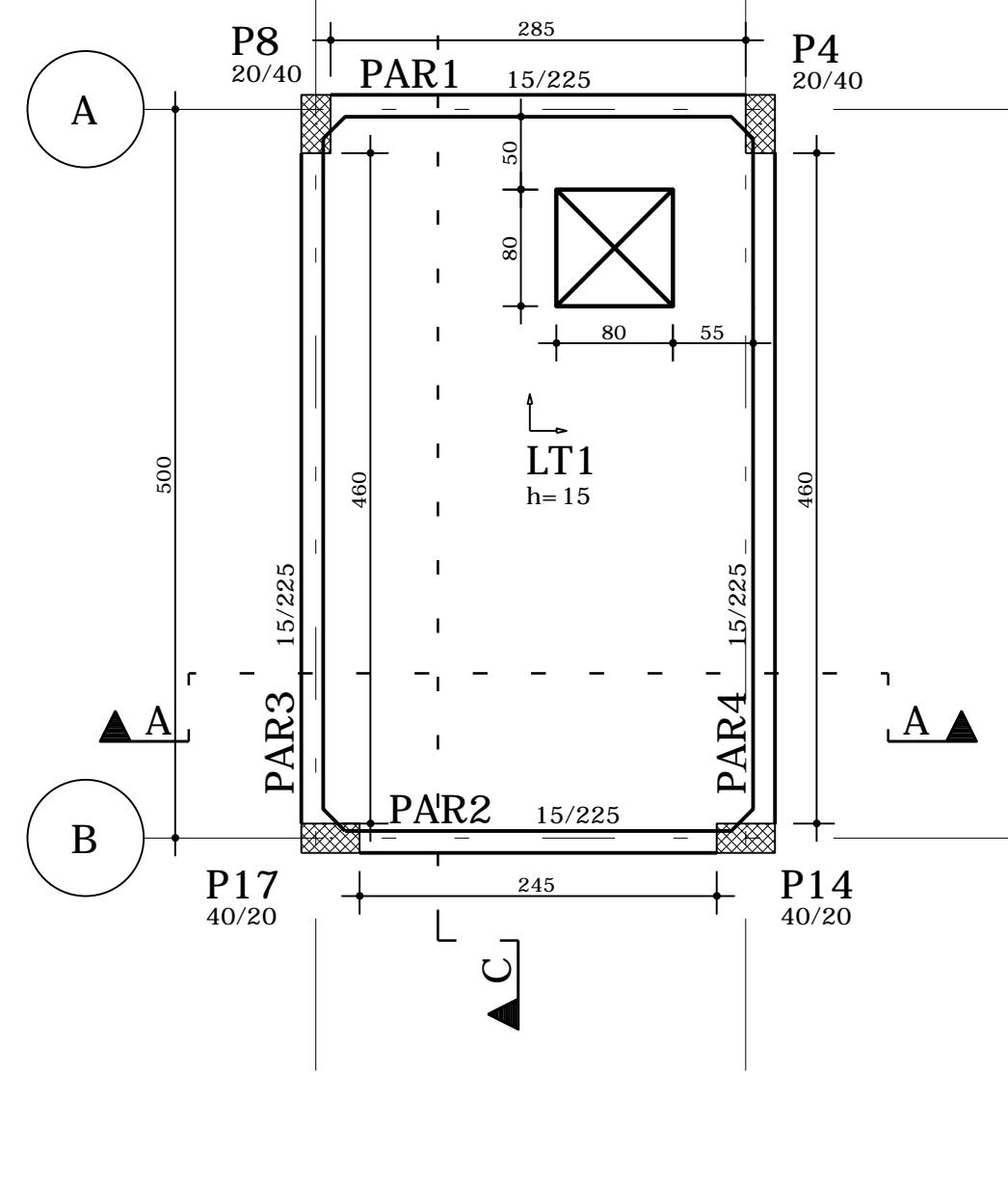
Prolongamento dos pilares para futura ampliação (2º Pavimento)



FORMAS DO NÍVEL +880cm

+ 880cm

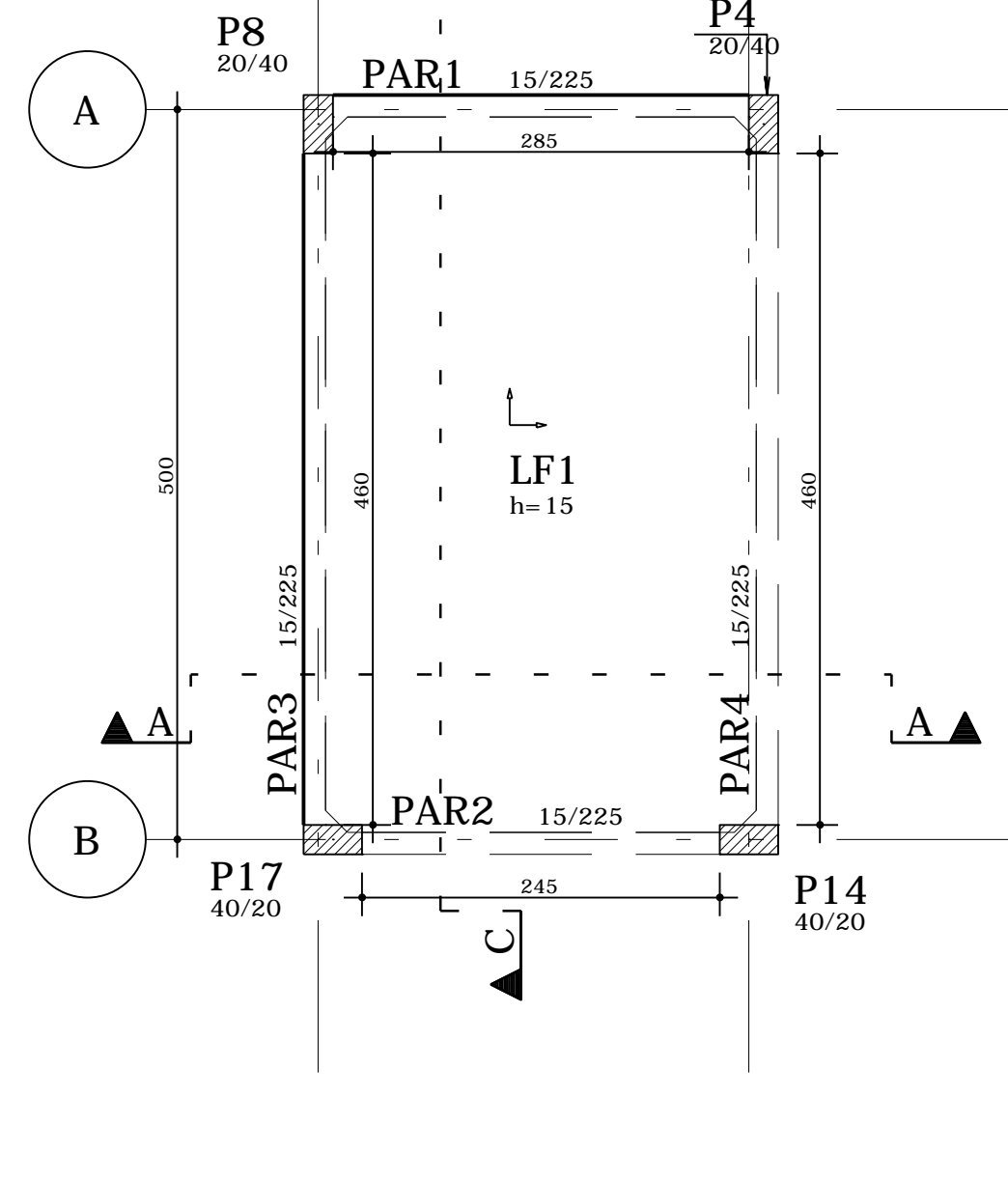
ESCALA: 1/50



FORMAS DO NÍVEL +670cm

+ 670cm

ESCALA: 1/50



Elem	Caso 1	FZ MAX-ELU2-Verificações de estado limite último - Pilares e fundações			MX MAX-ELU2-Verificações de estado limite último - Pilares e fundações			MY MAX-ELU2-Verificações de estado limite último - Pilares e fundações			FZ MIN-ELU2-Verificações de estado limite último - Pilares e fundações			MX MIN-ELU2-Verificações de estado limite último - Pilares e fundações			MY MIN-ELU2-Verificações de estado limite último - Pilares e fundações		
	Fz	Fz	Mx	My	Fz	Mx	My	Fz	Mx	My	Fz	Mx	My	Fz	Mx	My	Fz	Mx	My
S51	11.0	11.1	-0.3	-0.3	10.2	-0.1	-0.3	10.3	-0.3	-0.2	10.2	-0.1	-0.3	10.5	-0.4	-0.3	10.4	-0.2	-0.4
S52	19.1	19.1	0.0	0.2	17.4	0.1	0.1	17.4	0.0	0.0	17.4	0.0	0.0	17.4	-0.1	0.1	17.4	0.0	0.0
S53	13.8	13.9	0.0	0.1	12.6	0.1	0.1	12.5	0.0	0.3	12.7	-0.1	0.1	12.7	0.0	0.0	12.7	0.0	0.0
S54	50.6	51.0	-0.7	-0.4	47.1	-0.8	-0.4	48.2	-0.2	-0.1	47.1	0.8	-0.4	48.6	-1.2	-0.4	47.6	-0.2	-0.7
S55	37.0	37.3	-0.2	0.3	34.0	0.1	0.3	34.4	-0.1	0.5	34.0	0.1	0.3	34.8	-0.3	0.3	34.5	-0.1	0.2
S56	22.0	22.1	-0.3	0.0	20.5	-0.1	0.0	20.7	-0.2	0.1	20.5	-0.1	0.0	20.8	-0.4	0.0	20.7	-0.3	-0.1
S57	4.3	4.5	-0.1	0.2	4.0	0.1	0.2	4.3	0.0	0.4	4.0	0.1	0.2	4.5	-0.1	0.2	4.2	0.0	0.1
S58	26.2	26.6	-0.8	0.2	24.6	0.7	0.2	25.1	-0.3	0.4	24.6	0.7	0.2	25.9	-1.2	0.2	25.4	-0.2	0.0
S59	13.7	13.8	0.0	0.2	12.6	0.1	0.2	12.5	-0.1	0.3	12.3	-0.2	0.2	12.3	-0.2	0.2	12.4	-0.1	0.1
S60	5.5	5.6	-0.1	-0.1	4.6	0.1	-0.1	4.6	-0.1	0.0	4.6	-0.1	0.0	4.9	-0.2	-0.1	4.9	-0.1	-0.2
S61	16.6	16.7	0.1	0.1	14.8	0.3	0.1	15.1	0.1	0.1	14.8	0.2	0.0	15.1	0.0	0.0	14.8	0.2	0.0
S62	23.1	23.1	-0.1	0.0	20.5	0.0	0.0	20.6	-0.1	0.0	20.5	-0.1	-0.1	20.5	-0.2	0.0	20.5	-0.1	-0.1
S63	42.6	42.8	1.8	0.0	38.8	2.1	0.1	38.5	1.0	0.3	38.0	0.0	0.1	38.0	0.0	0.1	38.3	1.0	-0.1
S64	50.5	51.0	0.1	-0.1	47.4	0.4	-0.5	47.6	0.1	0.2	45.7	0.1	-1.1	46.0	-0.2	-0.5	45.8	0.1	-1.1
S65	29.2	29.2	0.2	0.4	26.2	0.4	0.3	26.3	0.2	0.4	25.9	0.2	0.2	25.9	0.1	0.3	25.9	0.2	0.2
S66	17.1	17.3	-0.1	0.0	15.3	0.1	0.1	15.0	-0.1	0.2	15.0	-0.1	0.2	15.2	-0.2	0.1	15.5	0.0	0.0
S67	26.5	27.2	0.2	-0.2	26.2	0.5	0.2	24.7	0.2	0.7	24.6	0.2	0.6	24.9	-0.1	0.1	26.3	0.2	-0.4
S68	19.5	19.5	0.0	0.0	16.6	0.0	0.0	16.5	-0.2	0.1	16.3	-0.3	0.0	16.3	-0.3	0.0	16.3	-0.1	0.0
S69	25.1	25.2	0.1	0.1	21.6	0.2	0.0	21.6	0.1	0.1	21.5	0.1	-0.1	21.6	-0.1	0.0	21.6	0.1	-0.1
S70	21.2	21.2	0.1	0.0	18.3	0.2	0.1	18.2	0.1	0.1	18.2	0.1	0.1	18.3	-0.1	0.1	18.3	0.1	0.0
S71	26.8	26.9	0.2	-0.7	23.1	0.2	-0.7	23.0	0.1	-0.6	22.9	0.0	-0.7	22.9	0.0	-0.7	23.1	0.1	-0.7
S72	30.2	30.3	-0.3	0.6	26.6	-0.1	0.6	26.7	-0.2	0.7	26.5	-0.1	0.6	26.9	-0.4	0.6	26.7	-0.2	0.5
S73	10.6	10.8	0.0	-0.1	10.0	0.2	-0.1	9.8	0.0	0.0	9.8	0.2	-0.1	9.8	-0.1	-0.1	10.0	0.0	-0.2
S74	31.0	31.1	0.3	0.2	28.0	0.4	0.2	27.9	0.2	0.3	27.8	0.1	0.2	27.8	0.1	0.2	27.9	0.2	0.1
S75	12.0	12.1	-0.1	-0.1	9.7	0.1	0.0	9.4	-0.1	0.0	9.4	-0.1	0.0	9.5	-0.2	0.0	9.8	-0.1	-0.1
S76	13.7	13.7	-0.1	-0.1	11.9	0.1	0.0	11.9	-0.1	0.1	11.9	-0.1	0.1	12.0	-0.3	0.0	12.0	-0.1	-0.1
S77	21.5	21.5	0.0	0.1	17.8	0.2	0.1	17.9	0.1	0.2	17.8	0.2	0.1	17.9	-0.1	0.1	17.8	0.1	0.0
S78	9.5	9.6	-0.1	0.0	8.6	0.2	0.0	8.8	0.0	0.1	8.6	0.2	0.0	8.9	-0.1	0.0	8.8	0.0	-0.1
S79	20.4	20.5	0.1	0.0	16.8	0.3	0.0	17.2	0.1	0.1	16.8	0.3	0.0	17.3	0.0	0.0	16.9	0.2	-0.1
S80	25.5	25.5	0.0	0.0	21.0	0.1	0.0	21.0	0.0	0.1	21.0	0.0	-0.1	21.0	-0.2	0.0	21.0	0.0	-0.1
S81	21.6	21.6	0.0	0.0	17.9	0.1	0.0	17.9	0.0	0.1	17.9	0.0	0.1	17.9	-0.2	0.0	17.9	0.0	-0.1
S82	24.9	24.9	0.0	-0.6	21.0	0.1	-0.5	20.9	0.0	-0.5	20.9	0.0	-0.5	21.0	-0.1	-0.5	21.0	0.0	-0.6
S83	26.9	27.0	0.4	0.5	23.9	0.5	0.5	23.7	0.3	0.6	23.5	0.2	0.5	23.5	0.2	0.5	23.7	0.3	0.5
S84	15.1	15.2	0.3	0.0	13.3	0.4	0.0	13.3	0.2	0.1	13.2	0.0	0.0	13.2	0.0	0.0	13.2	0.2	-0.1
S85	12.6	12.8	0.0	-0.1	10.2	0.2	-0.1	10.1	0.0	0.0	10.1	0.0	0.0	10.4	-0.1	-0.1	10.5	0.0	-0.1
S86	18.8	18.8	-0.1	0.0	16.5	0.0	0.0	16.5	-0.2	0.1	16.2	-0.3	0.0	16.2	-0.3	0.0	16.2	-0.1	0.0
S87	27.6	27.6	0.0	0.1	22.8	0.2	0.0	22.8	0.0	0.1	22.7	0.0	-0.1	22.8	-0.1	0.0	22.8	0.0	-0.1
S88	25.3	25.4	0.1	-0.1	20.9	0.2	0.0	20.9	0.0	0.1	20.9	0.0	0.1	20.9	-0.1	0.0	20.9	0.0	-0.1
S89	32.6	32.7	0.1	-0.1	29.4	0.4	0.0	29.3	0.1	0.2	29.3	0.1	0.2	29.4	-0.2	0.0	29.5	0.1	-0.2
S90	28.0	28.0	0.1	0.4	24.9	0.2	0.3	24.9	0.1	0.4	24.9	0.1	0.2	25.0	0.0	0.3	24.9	0.1	0.2
S91	23.9	23.9	0.1	-0.1	19.9	0.2	-0.1	19.8	0.1	0.0	19.8	0.1	0.0	19.8	-0.1	-0.1	19.9	0.1	-0.2
S92	25.2	25.3	0.2	0.0	21.4	0.2	0.0	21.5	0.1	0.1	21.2	0.1	-0.1	21.2	0.0	0.0	21.2	0.1	-0.1
S93	20.1	20.2	0.0	0.1	16.8	0.2	0.0	16.8	0.0	0.1	16.8	0.2	0.0	16.8	-0.1	0.1	16.8	0.1	0.0
S94	5.7	5.8	0.1	-0.2	5.2	0.2	-0.1	4.8	0.1	0.0	4.8	0.1	0.0	4.9	0.0	-0.1	5.3	0.1	-0.2
S95	16.9	17.0	0.3	-0.3	15.9	0.4	-0.3	16.9	0.2	-0.2	15.5	0.1	-0.3	15.5	0.1	-0.3	15.7	0.2	-0.3
S96	30.2	30.2	0.0	0.2	27.2	0.2	0.2	27.2	0.0	0.2	27.2	0.0	0.1	27.2	-0.1	0.2	27.2	0.0	0.1
S97	30.3	30.4	-0.1	0.0	27.0	0.1	0.0	30.3	0.0	0.1	27.0	0.1	0.0	27.1	-0.1	0.0	27.1	0.0	-0.1
S98	31.2	31.2	-0.2	0.3	25.6	0.0	0.3	31.2	-0.1	0.4	25.6	0.0	0.3	25.7	-0.2	0.3	25.7	-0.1	0.2
S99	52.3	52.3	-1.6	-0.3	41.0	-0.2	-0.3	52.3	-1.6	-0.1	41.0	-1.1	-0.2	52.3	-2.2	-0.2	41.0	-1.1	-0.5
S100	39.2	39.4	-0.3	0.8	32.9	0.3	0.8	33.4	-0.1	1.0	32.9	0.3	0.8	33.7	-0.5	0.8	33.3	-0.1	0.7
S101	29.9	30.1	-0.3	-0.3	26.2	0.2	-0.2	26.4	-0.1	-0.1	26.2	0.2	-0.2	26.8	-0.5	-0.3	26.6	-0.1	-0.4
S102	10.8	11.0	-0.5	0.5	10.4	0.1	0.5	10.7	-0.2	0.6	10.4	0.1	0.5	10.9	-0.6	0.5	10.6	-0.3	0.4
S103	12.1	12.2	0.2	-0.4	9.8	0.2	-0.4	12.1	0.1	-0.3	9.6	-0.1	-0.4	9.6	-0.1	-0.4	9.7	0.1	-0.5
S104	31.3	31.3	-0.2	-0.1	23.2	0.0	-0.1	23.1	-0.1	0.0	23.1	-0.1	0.0	31.3	-0.2	-0.1	23.2	-0.1	-0.2
S105	20.1	20.6	0.7	0.6	17.8	0.8	0.7	17.2	0.5	0.8	16.4	0.1	0.7	16.4	0.1	0.7	16.9	0.4	0.5
S106	15.7	15.9	0.5	-0.5	15.3	0.6	-0.5	14.9	0.4	-0.4	14.6	0.2	-0.4	14.6	0.2	-0.4	15.0	0.4	-0.5
S107	11.8	11.9	0.8	0.4	11.6	0.9	0.4	11.5	0.5	0.5	11.2	0.1	0.5	11.2	0.1	0.5	11.3	0.5	0.4
S201	9.7	10.4	-0.8	7.0	8.3	0.6	6.8	9.7	-0.1	7.3	8.3	0.6	6.8	10.4	-0.8	7.0	9.3	-0.1	6.7
S202	8.0	8.8	0.8	4.7	8.8	0.8	4.7	8.0	0.1	5.0	6.6	-0.5	4.4	6.6	-0.5	4.4	7.7	0.1	4.2
S301	3.2	3.5	-0.2	-0.2	2.5	0.1	0.1	2.5	0.1	0.1	2.5	0.1	0.1	3.5	-0.2	-0.2	3.5	-0.2	-0.2
S302	3.2	3.5	-0.2	0.2	2.5	0.1	-0.1	3.5	-0.2	0.2	2.5	0.1	-0.1	3.5	-0.2	0.2	2.5	0.1	-0.1
S303	3.2	4.0	-0.1	-0.6	2.0	0.2	0.6	2.0	0.2	0.6	2.0	0.2	0.6	4.0	-0.1	-0.6	4.0	-0.1	-0.6
S304	3.3	4.1	-0.1	0.6	2.2	0.1	-0.6	4.1	-0.1	0.6	2.2	0.1	-0.6	4.1	-0.1	0.6	2.2	0.1	-0.6

Observações:

- =====
- 1 - Esforços com valores característicos
 - 2 - Forças em tf
 - 3 - Momentos em tfm
 - 4 - Sistema de coordenadas GLOBAL
 - 5 - CA é cota de arrasamento/assentamento da fundação

NOTAS GERAIS:

- 1- DIMENSÕES EM CENTÍMETRO, ELEVAÇÕES EM METRO E BITOLAS E DIÂMETROS EM MILÍMETROS, EXCETO ONDE INDICADO.
- 2- AS FUNDAMENTAÇÕES DEVERÃO SER EXECUTADAS DE ACORDO COM A NBR 6122 (PROJETO E EXECUÇÃO DE FUNDAMENTAÇÕES).
- 3- TENSÃO ADMISSÍVEL DO SOLO OBTIDA ATRAVÉS DO RELATÓRIO DE SONDAGEM 2.00 kgf/cm².
- 4- MATERIAIS:
CONCRETO ESTRUTURAL: fck > 30 MPa
RELACÃO AGUA/CEMENTO <= 0,55
CONSUMO MÍNIMO DE CIMENTO = 340 Kg/m³
Ec = 26.071 MPa (CONFORME NORMAS TÉCNICAS BRAS)
CONCRETO SIMPLES (MAGRO): fck > 10 MPa (100 kgf/cm²)
CONSUMO MÍNIMO DE CIMENTO = 200 Kg/m³
ACQ: CASO -