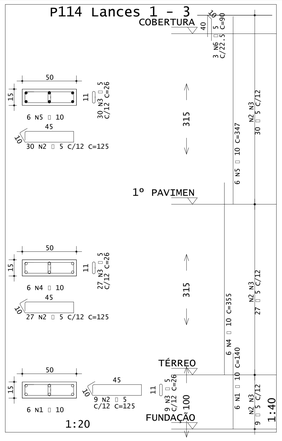

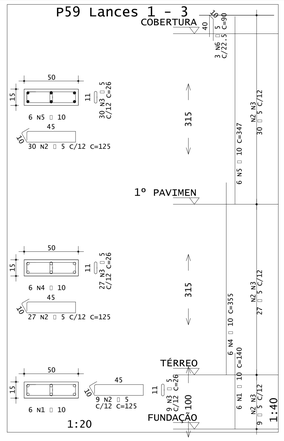

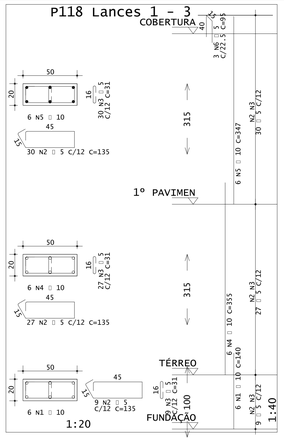

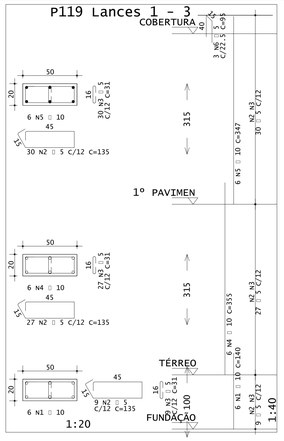

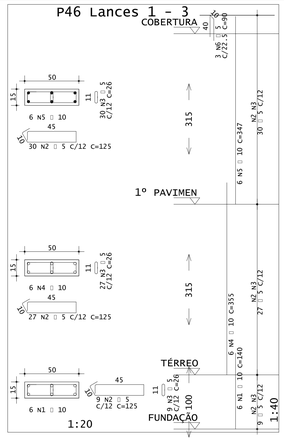

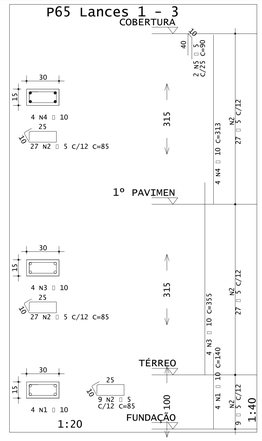

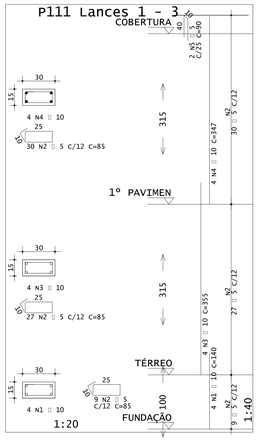

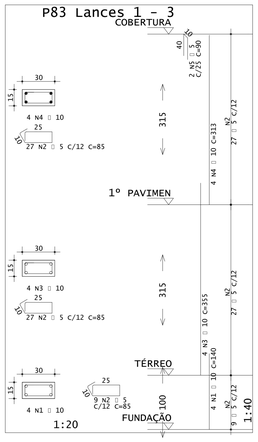

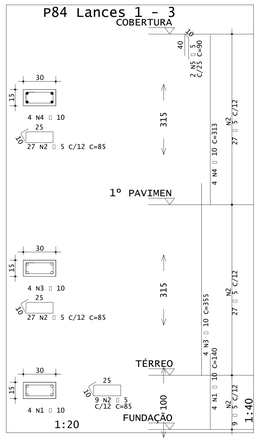

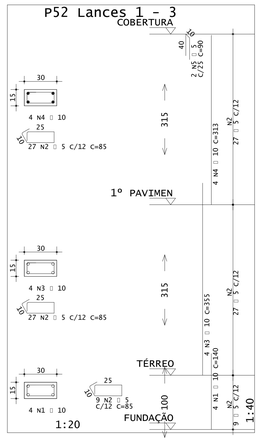

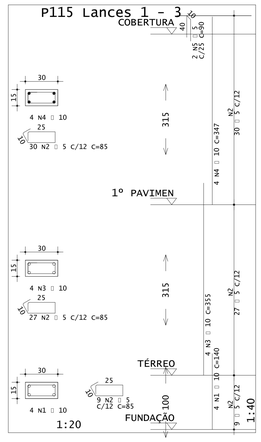

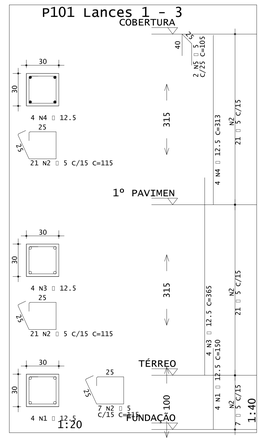

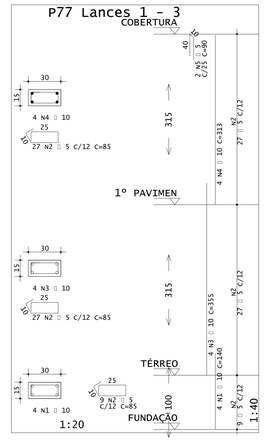

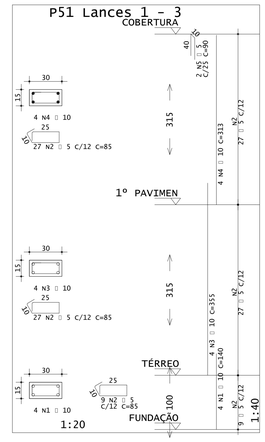

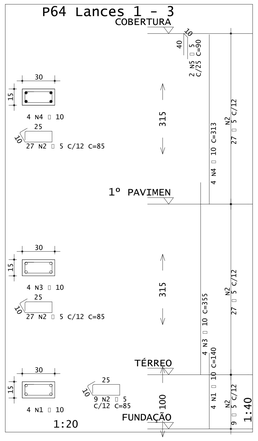

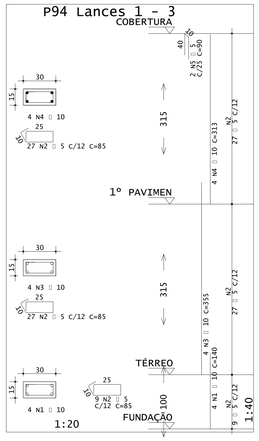

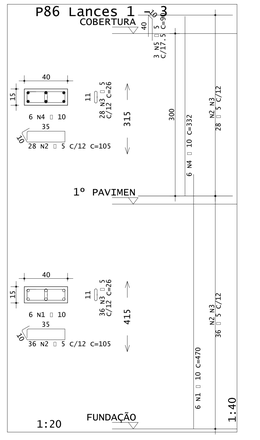

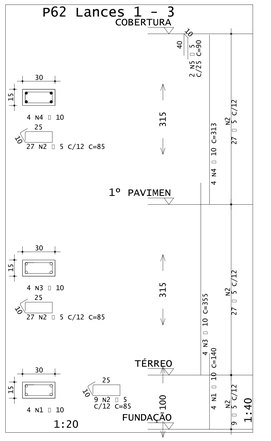

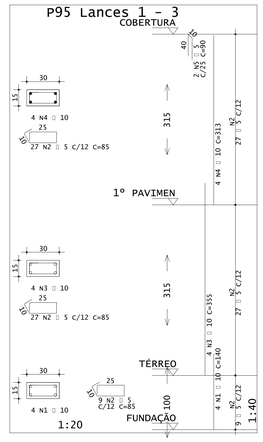

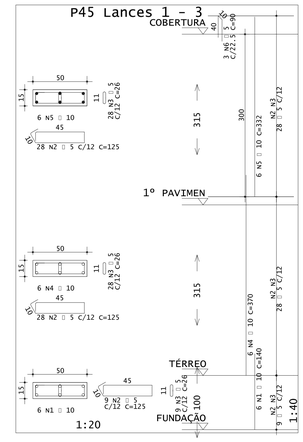

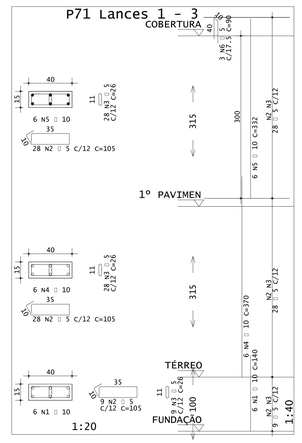

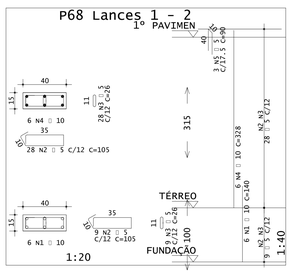

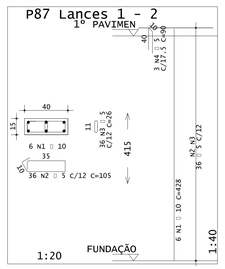

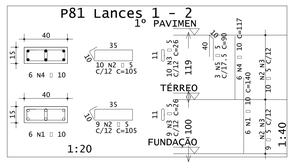

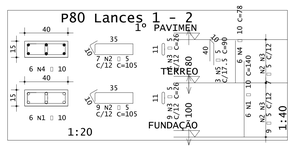

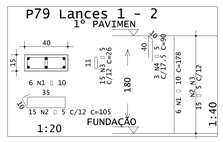

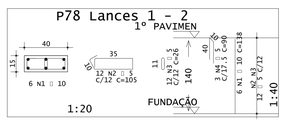

AÇO	POS	BIT	QUANT	COMPRIMENTO	
		mm		UNIT	TOTAL
				cm	
P45 Lances 1 - 3					
	50A	1	10	6	140	840
	60A	2	5	65	125	8125
	60A	3	5	65	26	1690
	50A	4	10	6	370	2220
	50A	5	10	6	332	1992
	60A	6	5	3	90	270
P46 Lances 1 - 3					
	50A	1	10	6	140	840
	60A	2	5	66	125	8250
	60A	3	5	66	26	1716
	50A	4	10	6	355	2130
	50A	5	10	6	347	2082
	60A	6	5	3	90	270
P51 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	63	85	5355
	50A	3	10	4	355	1420
	50A	4	10	4	313	1252
	60A	5	5	2	90	180
P52 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	63	85	5355
	50A	3	10	4	355	1420
	50A	4	10	4	313	1252
	60A	5	5	2	90	180
P59 Lances 1 - 3					
	50A	1	10	6	140	840
	60A	2	5	66	125	8250
	60A	3	5	66	26	1716
	50A	4	10	6	355	2130
	50A	5	10	6	347	2082
	60A	6	5	3	90	270
P62 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	63	85	5355
	50A	3	10	4	355	1420
	50A	4	10	4	313	1252
	60A	5	5	2	90	180
P64 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	63	85	5355
	50A	3	10	4	355	1420
	50A	4	10	4	313	1252
	60A	5	5	2	90	180
P65 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	63	85	5355
	50A	3	10	4	355	1420
	50A	4	10	4	313	1252
	60A	5	5	2	90	180
P68 Lances 1 - 2					
	50A	1	10	6	140	840
	60A	2	5	37	105	3885
	60A	3	5	37	26	962
	50A	4	10	6	328	1968
	60A	5	5	3	90	270
P71 Lances 1 - 3					
	50A	1	10	6	140	840
	60A	2	5	65	105	6825
	60A	3	5	65	26	1690
	50A	4	10	6	370	2220
	50A	5	10	6	332	1992
	60A	6	5	3	90	270
P77 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	63	85	5355
	50A	3	10	4	355	1420
	50A	4	10	4	313	1252
	60A	5	5	2	90	180
P78 Lances 1 - 2					
	50A	1	10	6	138	828
	60A	2	5	52	105	1260
	60A	3	5	12	26	312
	60A	4	5	3	90	270
P79 Lances 1 - 2					
	50A	1	10	6	178	1068
	60A	2	5	15	105	1575
	60A	3	5	15	26	390
	60A	4	5	3	90	270
P80 Lances 1 - 2					
	50A	1	10	6	140	840
	60A	2	5	16	105	1680
	60A	3	5	16	26	416
	50A	4	10	6	78	468
	60A	5	5	3	90	270
P81 Lances 1 - 2					
	50A	1	10	6	140	840
	60A	2	5	19	105	1995
	60A	3	5	19	26	494
	50A	4	10	6	117	702
	60A	5	5	3	90	270
P83 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	63	85	5355
	50A	3	10	4	355	1420
	50A	4	10	4	313	1252
	60A	5	5	2	90	180
P84 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	63	85	5355
	50A	3	10	4	355	1420
	50A	4	10	4	313	1252
	60A	5	5	2	90	180
P86 Lances 1 - 3					
	50A	1	10	6	470	2820
	60A	2	5	64	105	6720
	60A	3	5	64	26	1664
	50A	4	10	6	332	1992
	60A	5	5	3	90	270
P87 Lances 1 - 2					
	50A	1	10	6	428	2568
	60A	2	5	36	105	3780
	60A	3	5	36	26	936
	60A	4	5	3	90	270
P94 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	63	85	5355
	50A	3	10	4	355	1420
	50A	4	10	4	313	1252
	60A	5	5	2	90	180
P95 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	63	85	5355
	50A	3	10	4	355	1420
	50A	4	10	4	313	1252
	60A	5	5	2	90	180
P101 Lances 1 - 3					
	50A	1	12.5	4	150	600
	60A	2	5	49	115	5635
	50A	3	12.5	4	365	1460
	50A	4	12.5	4	313	1252
	60A	5	5	2	105	210
P111 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	66	85	5610
	50A	3	10	4	355	1420
	50A	4	10	4	347	1388
	60A	5	5	2	90	180
P114 Lances 1 - 3					
	50A	1	10	6	140	840
	60A	2	5	66	125	8250
	60A	3	5	66	26	1716
	50A	4	10	6	355	2130
	50A	5	10	6	347	2082
	60A	6	5	3	90	270
P115 Lances 1 - 3					
	50A	1	10	4	140	560
	60A	2	5	66	85	5610
	50A	3	10	4	355	1420
	50A	4	10	4	347	1388
	60A	5	5	2	90	180
P118 Lances 1 - 3					
	50A	1	10	6	140	840
	60A	2	5	66	135	8910
	60A	3	5	66	31	2046
	50A	4	10	6	355	2130
	50A	5	10	6	347	2082
	60A	6	5	3	95	285
P119 Lances 1 - 3					
	50A	1	10	6	140	840
	60A	2	5	66	135	8910
	60A	3	5	66	31	2046
	50A	4	10	6	355	2130
	50A	5	10	6	347	2082
	60A	6	5	3	95	285

RESUMO DE AÇO			
AÇO	BIT	COMPR.	PESO
	mm	m	kgf
60A	5	1728	266
50A	10	894	551
50A	12.5	33	32
Peso Total		60A =	266 kgf
Peso Total		50A =	583 kgf

Nº	DESCRIÇÃO	DATA	EMITIDO POR
800	EMISSÃO INICIAL	06/11/2023	JOSÉ ANTONIO VENTURA

TABELA DE REVISÃO

PROPRIETÁRIO
PREFEITURA MUNICIPAL DE SAQUAREMA - RJ
R. CEL. MADUREIRA, 77 - CENTRO, SAQUAREMA - RJ, 28990-000

OBRA
ESCOLA E CRECHE MUNICIPAL VILATUR

ENDEREÇO
R. PRAIA DA MARANDUBA - VILATUR, SAQUAREMA - RJ, 28990-000

BARRETO ENGENHARIA

RESPONSÁVEL TÉCNICO
JOSÉ ANTONIO VENTURA DOS ANJOS
CREA/RJ Nº 2018113203

QrCode

ESTRUTURAL
CONCRETO

CONTEÚDO
DETALHES DOS PILARES

FOLHA
019
048

ESCALA	DATA	PROJETISTA
INDICADA	06/11/2023	RODRIGO ROZA

ARQUIVO
BE-PMSa-DES-EST-VILATUR-EX-019-R00