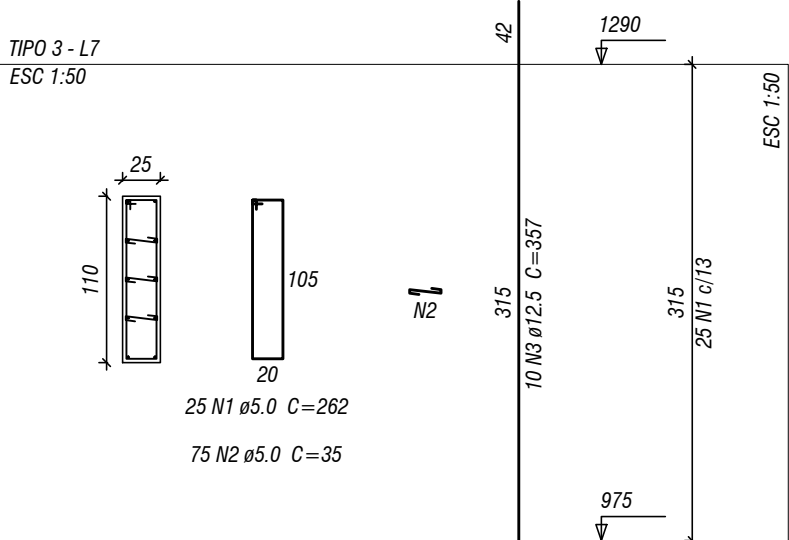
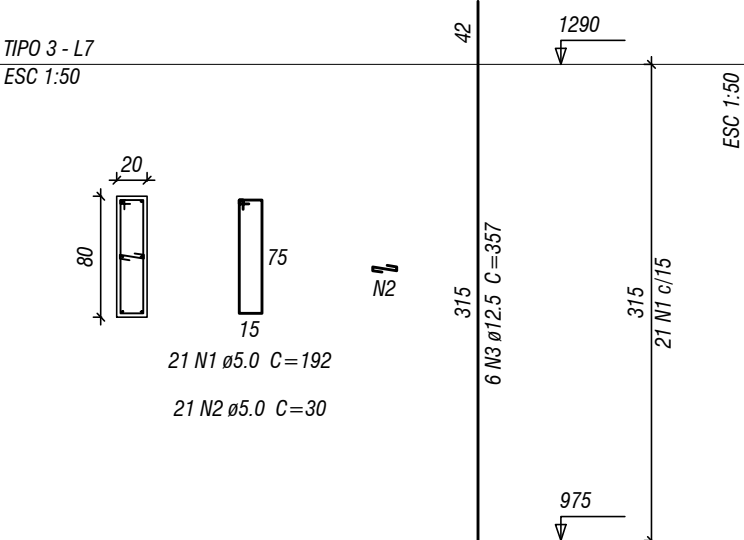


PRMS PARA ROTACIA			
ITEM	PRMS	PRMS	PRMS
1	PRMS	PRMS	PRMS
2	PRMS	PRMS	PRMS
3	PRMS	PRMS	PRMS
4	PRMS	PRMS	PRMS
5	PRMS	PRMS	PRMS
6	PRMS	PRMS	PRMS
7	PRMS	PRMS	PRMS

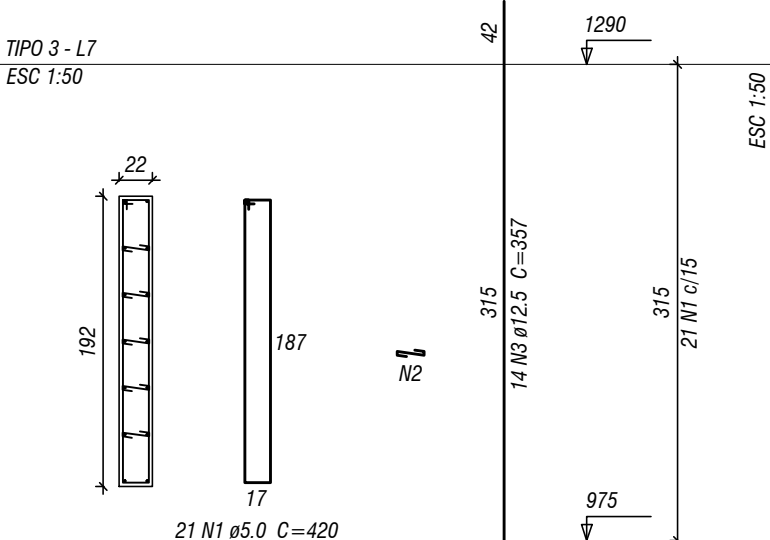
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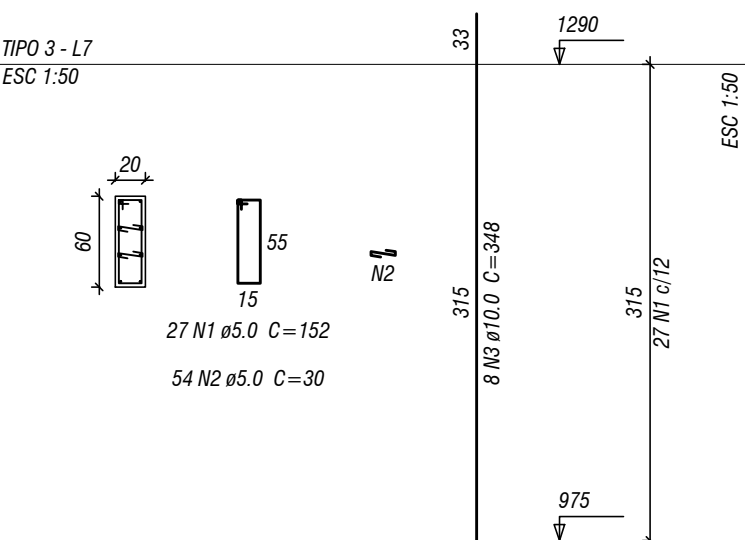
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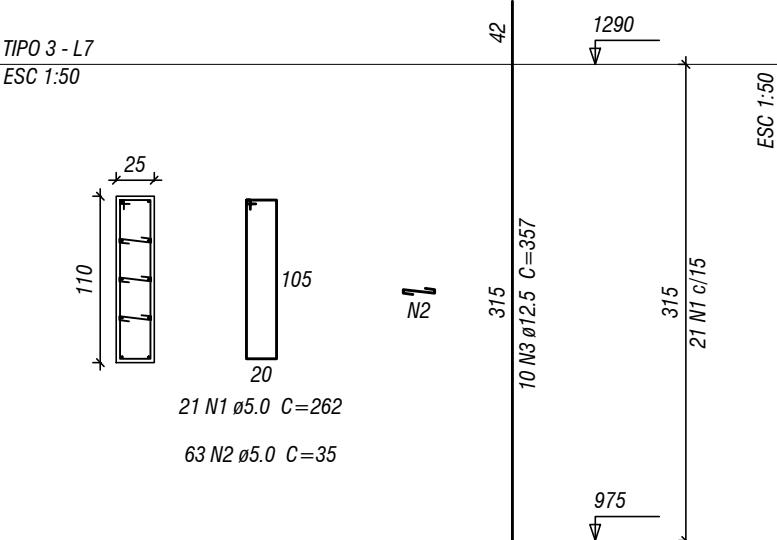
P13=P17



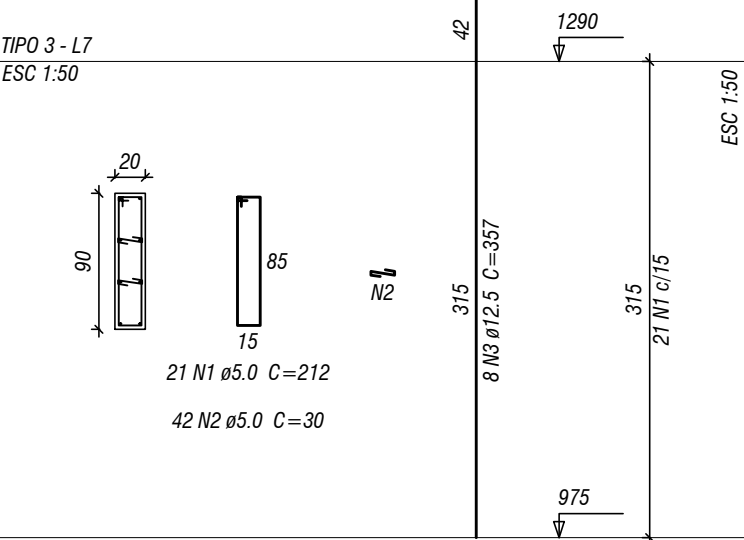
P19



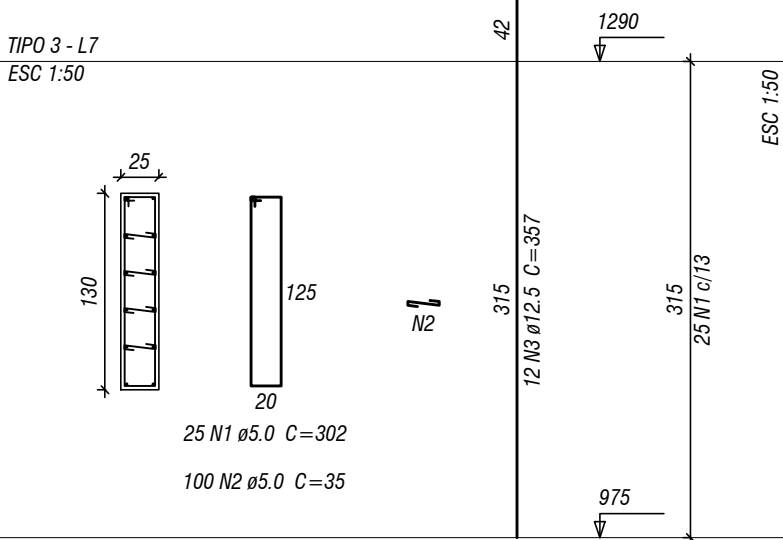
P20=P22



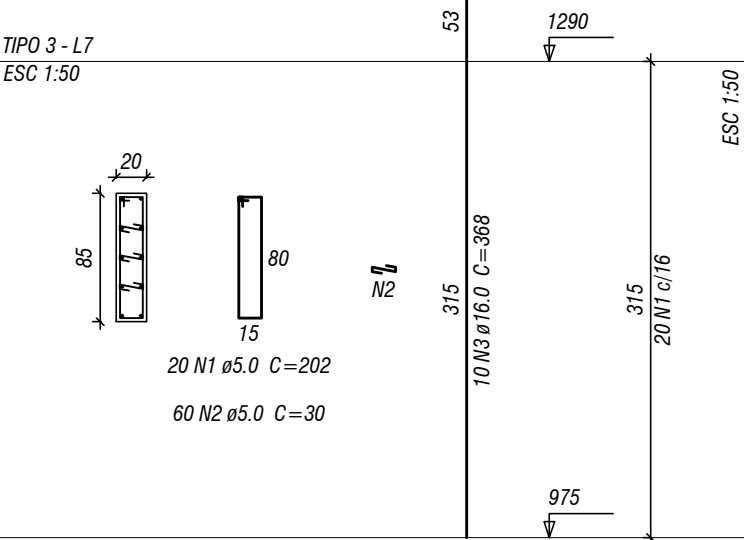
P21



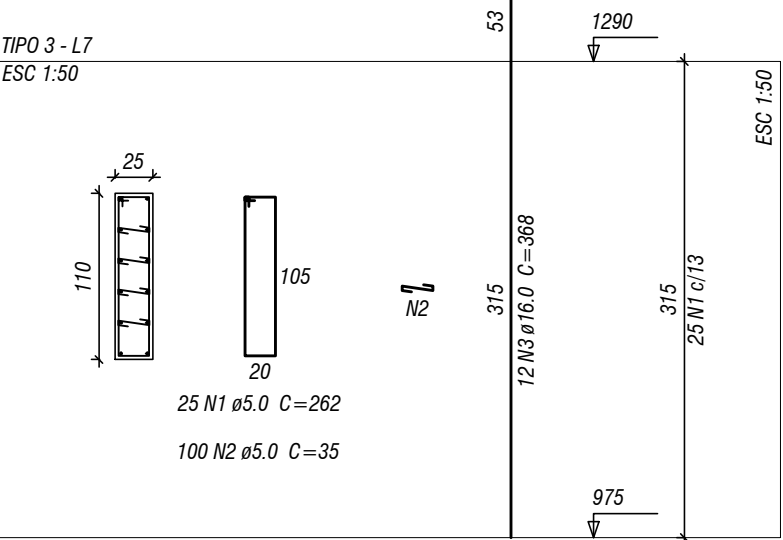
P26=P27



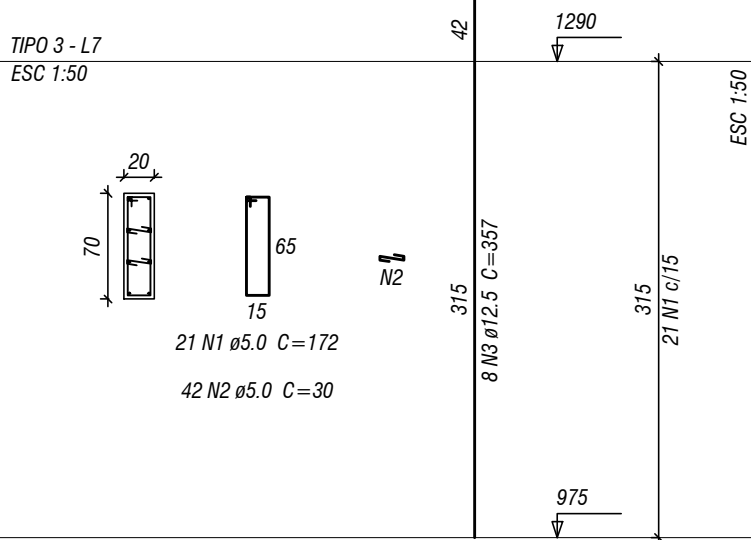
P37



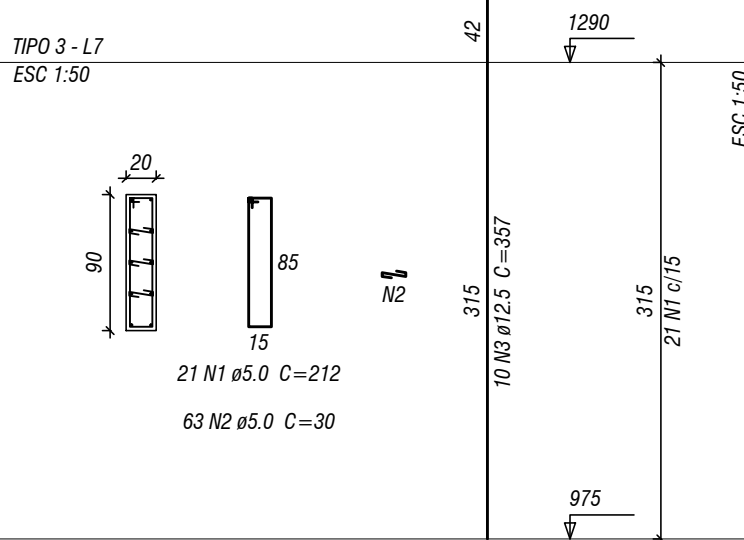
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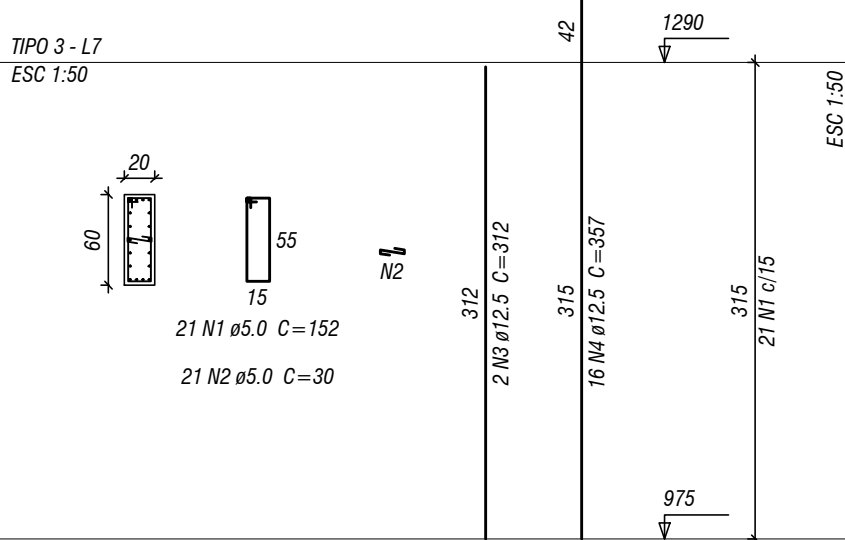
P41



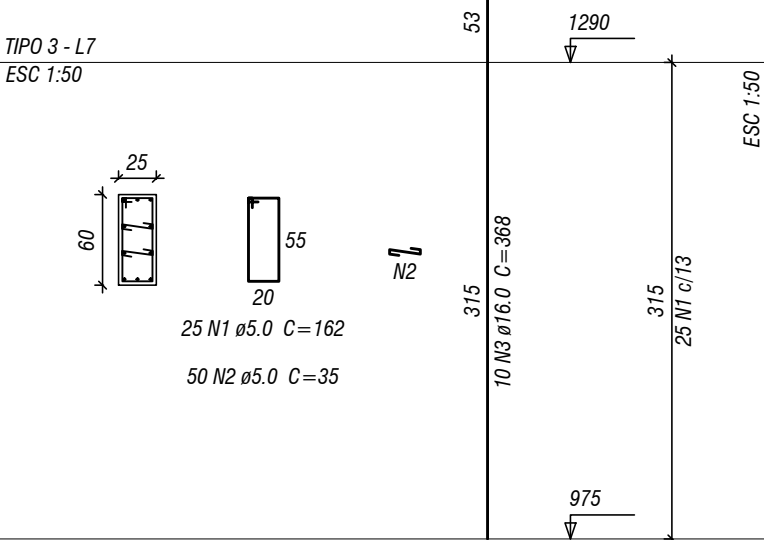
P44



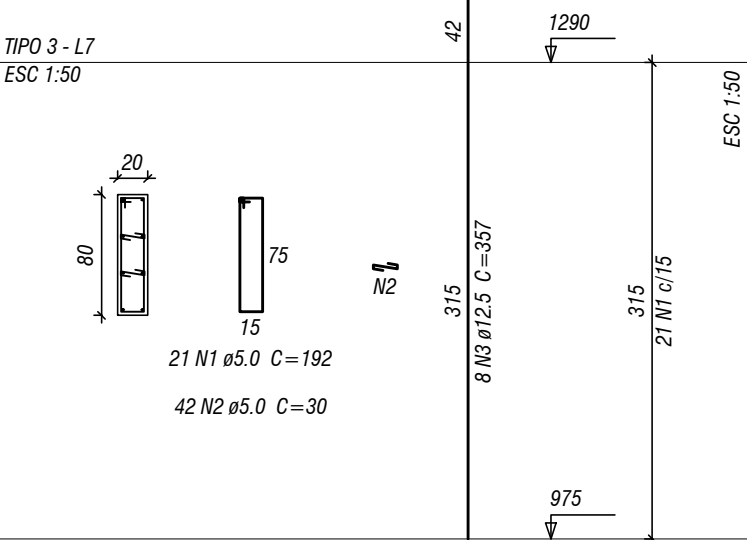
P45



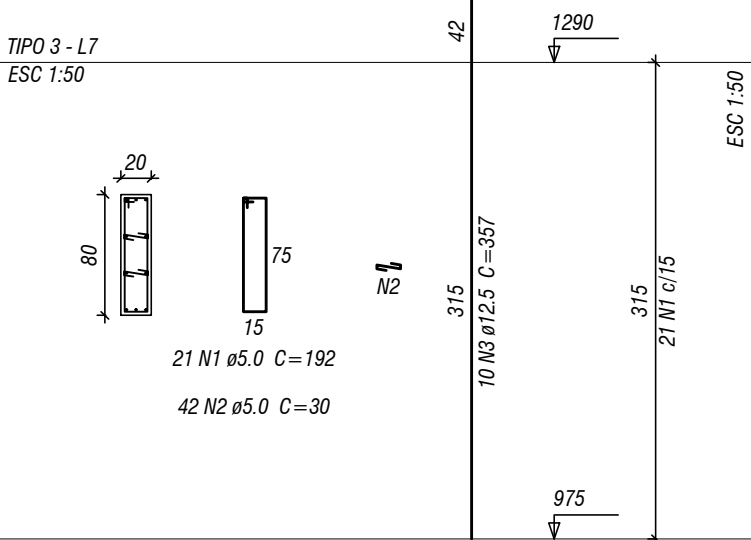
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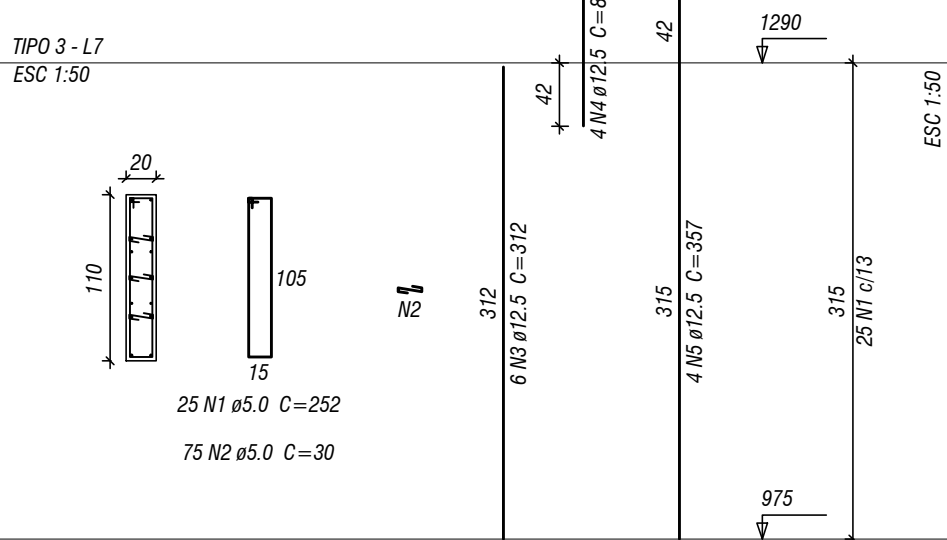
P48



P49



P8



Relação do aço						
ELEMENTO	AÇO	N	DIAM	O	UNIT (cm)	C.TOTAL (cm)
2xP4	CA60	1	5.0	50	262	13100
	CA60	2	5.0	200	35	7000
	CA50	3	16.0	24	368	9832
	CA60	1	5.0	25	252	6300
	CA60	2	5.0	75	30	2250
2xP11	CA50	3	12.5	6	312	1872
	CA50	4	12.5	4	83	332
	CA50	5	12.5	4	357	1428
	CA60	1	5.0	30	262	13100
	CA60	2	5.0	150	35	5250
3xP12	CA50	3	12.5	20	357	7140
	CA60	1	5.0	63	192	12096
	CA60	2	5.0	63	30	1880
	CA50	3	12.5	18	357	6426
	CA60	1	5.0	42	420	17640
2xP13	CA60	2	5.0	210	32	6720
	CA50	3	12.5	28	357	9996
	CA60	1	5.0	27	152	4104
	CA60	2	5.0	54	30	1620
	CA50	3	10.0	8	348	2784
2xP20	CA60	1	5.0	42	262	11004
	CA60	2	5.0	126	35	4410
	CA50	3	12.5	20	357	7140
	CA60	1	5.0	21	212	4452
	CA60	2	5.0	42	30	1260
P21	CA50	3	12.5	8	357	2856
	CA60	1	5.0	50	302	15100
	CA60	2	5.0	200	35	7000
	CA50	3	12.5	24	357	8568
	CA60	1	5.0	20	202	4040
P37	CA60	2	5.0	60	30	1800
	CA50	3	16.0	10	368	3680
	CA60	1	5.0	21	172	3612
	CA60	2	5.0	42	30	1260
	CA50	3	12.5	8	357	2856
P41	CA60	1	5.0	21	212	4452
	CA60	2	5.0	63	30	1880
	CA50	3	12.5	10	357	3570
	CA60	1	5.0	21	152	3192
	CA60	2	5.0	21	30	630
P45	CA50	3	12.5	2	312	624
	CA50	4	12.5	16	357	5712
	CA60	1	5.0	50	162	8100
	CA60	2	5.0	100	35	3500
	CA50	3	16.0	20	368	7360
P48	CA60	1	5.0	21	192	4032
	CA60	2	5.0	42	30	1260
	CA50	3	12.5	8	357	2856
	CA60	1	5.0	21	192	4032
	CA60	2	5.0	42	30	1260
P49	CA50	3	12.5	10	357	3570

Resumo do aço			
AÇO	DIAM	C.TOTAL (m)	PESO (kg)
CA50	10.0	27.9	17.2
	12.5	649.5	625.7
	16.0	198.8	313.6
CA60	5.0	1773.6	273.4
PESO TOTAL			
CA50	956.5		
CA60	273.4		
Vol. de concreto total (C=30) = 16.93 m³			
Área de forma total = 184.15 m²			

CONTROLE DAS REVISÕES:		
REVISÃO	DATA	DESCRIÇÃO

ENGENHARIA

Engenharia de Estruturas e Engenharia de Segurança do Trabalho

Excelência em Projetos Estruturais de Concreto Armado, Protendido, Pré-Moldado, Estruturas Metálicas e Alvenaria Estrutural

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ESTRUTURAL EM CONCRETO ARMADO

CLIENTE: **RODRIGO KOJO**

OBRA: Para Construção de Uma Edificação Residencial Coletiva - Edifício Jardins de France

LOCAL: Rua Francisco Glicério, nº 1.033 - Zona 07 - Maringá - Paraná

REFERÊNCIA(S): Detalhes dos Pilares do Tipo 2	REVISÃO: R-00	PRANCHAS: 39
RESPONSÁVEL TÉCNICO: Eng.º Esp. Yutaka Mario Kobayashi Júnior CREA PR-89.748/D	DATA CRIAÇÃO: 09/04/2013	ESCALAS: INDICADAS
ART Nº: 20122498064	DATA DA REVISÃO: N/C	
PROJETO Nº: P-181		