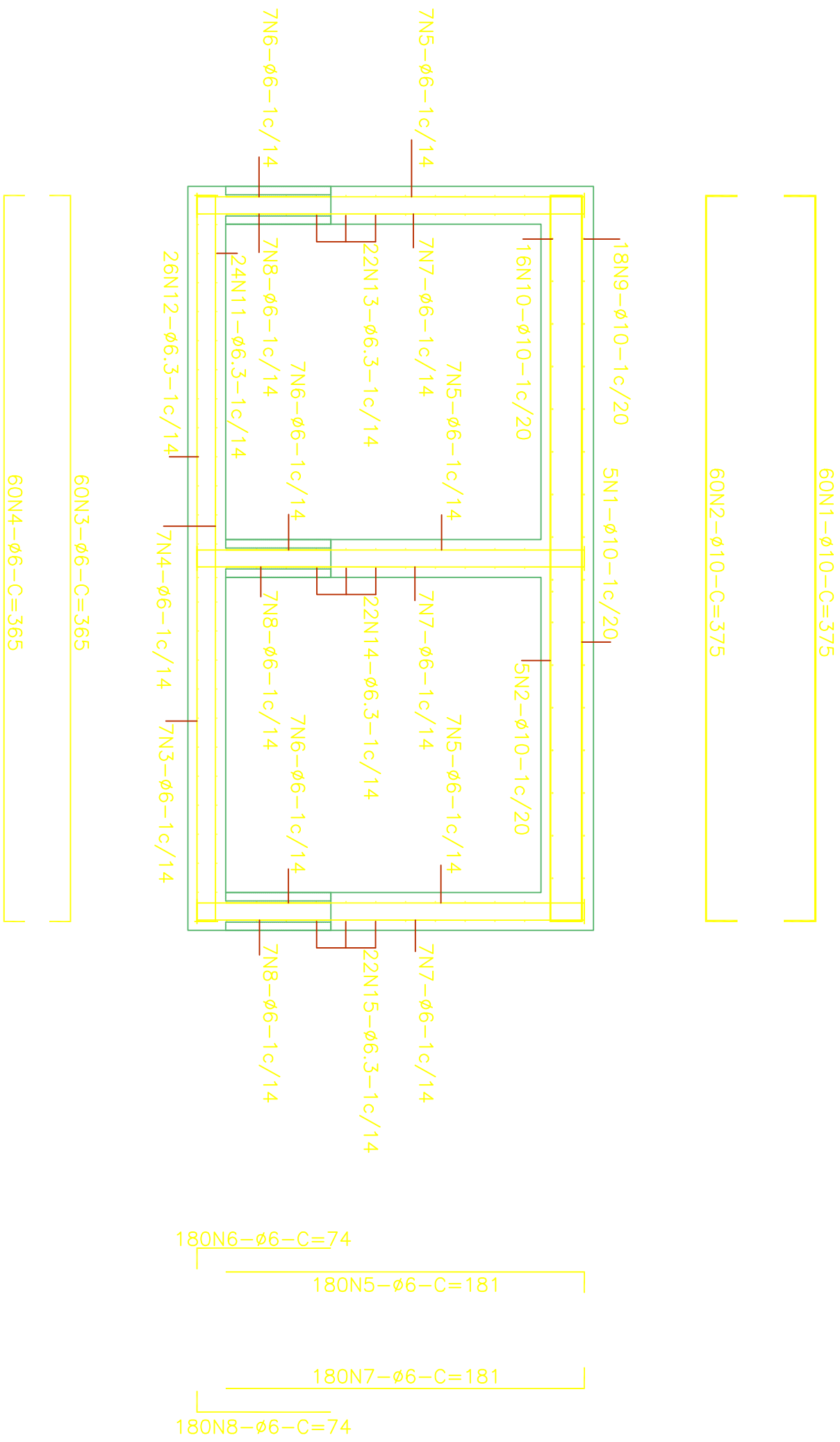
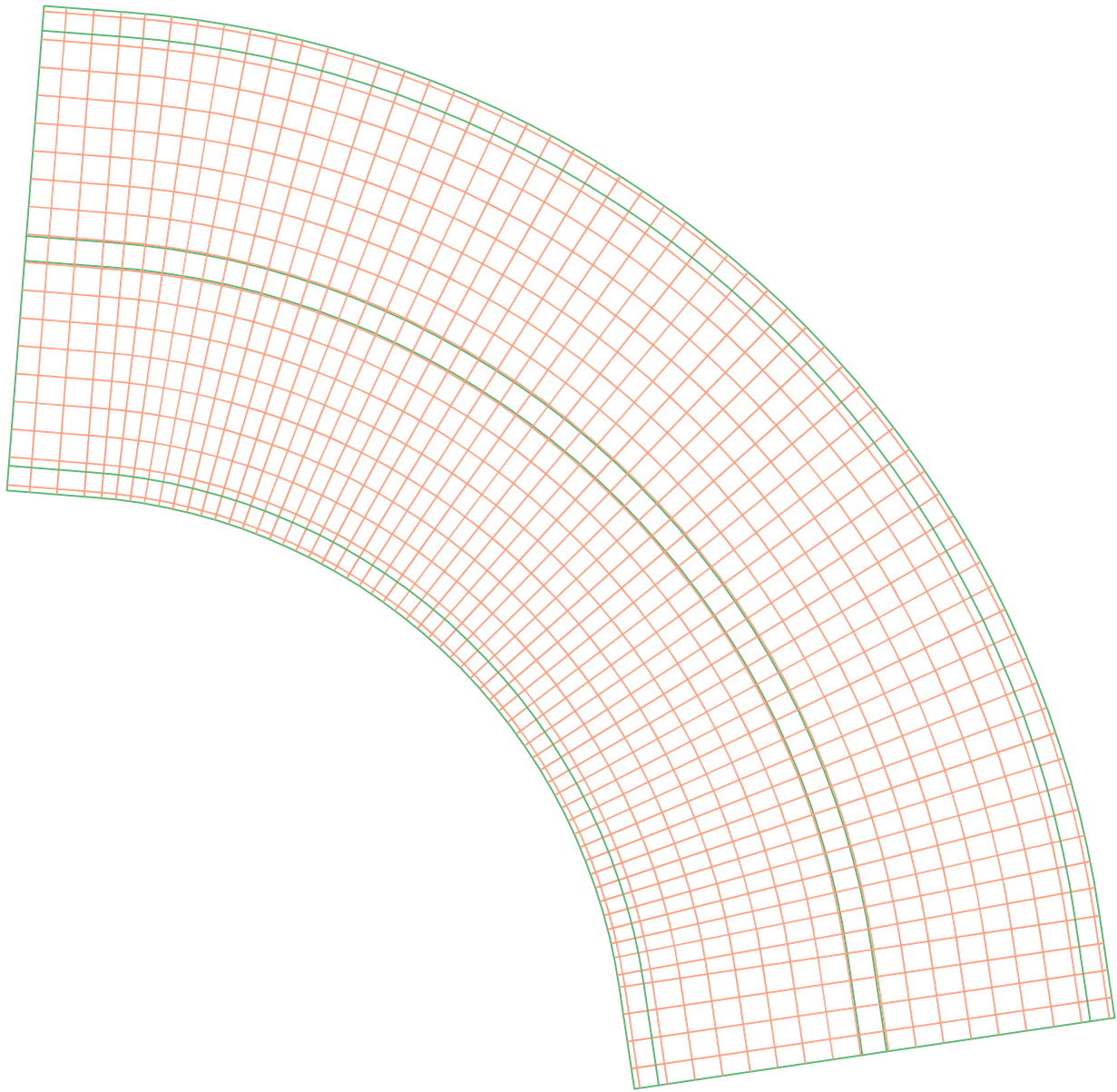


COTOVELO 13



ARMADURAS

ESC: 1/25



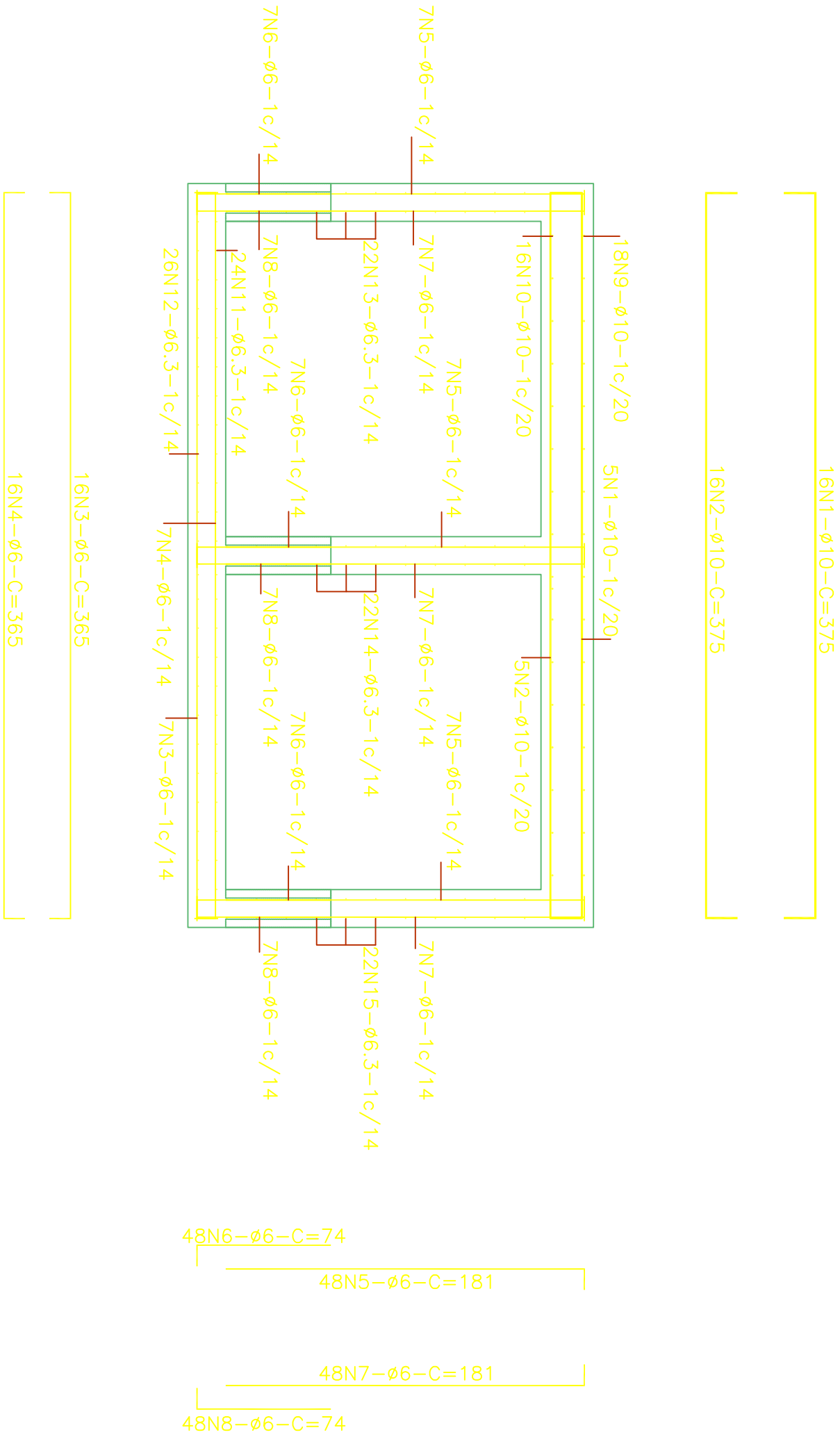
ARMADURAS - PLANTA

ESC: 1/50

TABELA DE CORTE				
N	QUANT	ø	C. UNIT	C. TOTAL
1	60	10	375	22500
2	60	10	375	22500
3	60	6	365	21900
4	60	6	365	21900
5	180	6	181	32580
6	180	6	74	13320
7	180	6	181	32580
8	180	6	74	13320
9	18	10	942	16956
10	16	10	942	15072
11	24	6.3	942	22608
12	26	6.3	942	24492
13	22	6.3	1167	25674
14	22	6.3	942	20724
15	22	6.3	701	15422

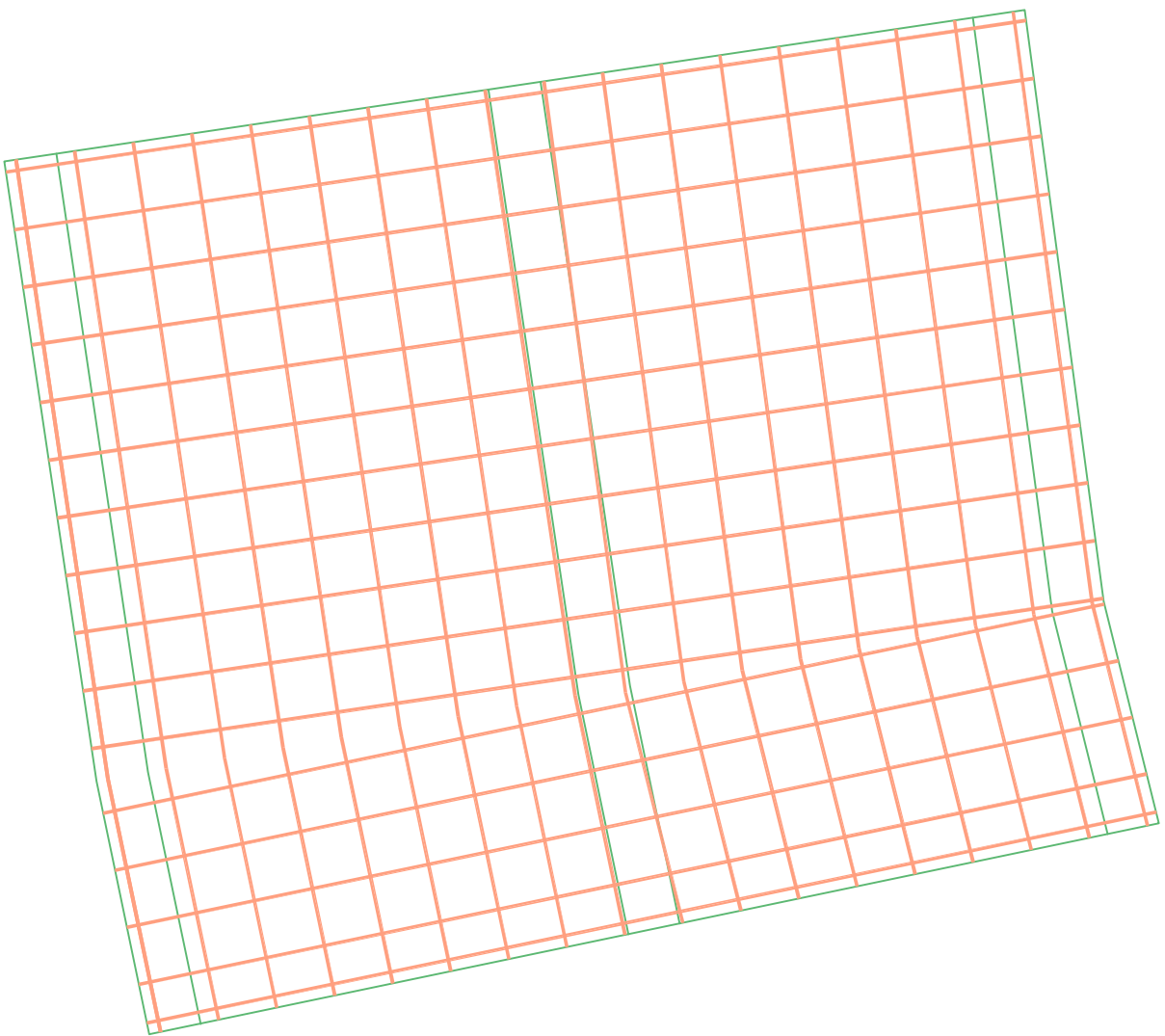
RESUMO DO AÇO		
DIAM	COMP	PESO
6	135600	301
6.3	108920	267
10	77028	475
TOTAL :		1042
TOTAL +10%		1147

COTOVELO 12



ARMADURAS

ESC: 1/25



ARMADURAS - PLANTA

ESC: 1/50

TABELA DE CORTE				
N	QUANT	ø	C. UNIT	C. TOTAL
1	16	10	375	6000
2	16	10	375	6000
3	16	6	365	5940
4	16	6	365	5940
5	48	6	181	8688
6	48	6	74	3552
7	48	6	181	8688
8	48	6	74	3552
9	18	10	293	5274
10	16	10	293	4688
11	24	6.3	293	7032
12	26	6.3	293	7618
13	22	6.3	283	6226
14	22	6.3	293	6446
15	22	6.3	303	6666

RESUMO DO AÇO		
DIAM	COMP	PESO
10	21962	135
6	36160	80
6.3	33988	83
TOTAL :		299
TOTAL +10%		329

15					
14					
13					
12					
11					
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9					
8					
7					
6	REVISÃO GERAL				
5					
4					
3					
2					
1					

REVISÕES

ESPAÇO RESERVADO A P.M.L.

PROJETO EXECUTIVO DE ENGENHARIA

AMPLIAÇÃO DA CAPACIDADE HIDRÁULICA DO RIO MATHIAS

PREFEITURA MUNICIPAL DE JOINVILLE

SECRETARIA DE ADMINISTRAÇÃO

PRONCHA Nº

ARMADURAS

GALERIA DE CONDUÇÃO - COTOVELOS - ARMADURAS

EDU JOSÉ FRANCO

ENG. CIVIL

CREA 25.862 DPE

ARC-16

de 16

engenharia

consultiva

PARALELA

DATA DE CONTRATO

14/02/2013