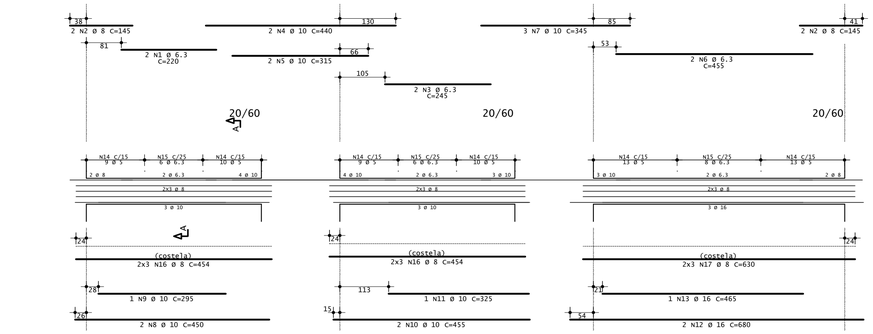
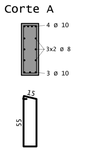
V65

Volume m3	Área de forma m2
1.90	24.6



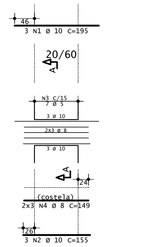
Corte A



64 N14 Ø 5 C=155
20 N15 Ø 6.3 C=156

V66

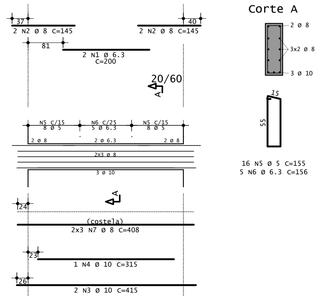
Volume m3	Área de forma m2
0.11	1.47



7 N3 Ø 5 C=155

V67

Volume m3	Área de forma m2
0.39	5.04

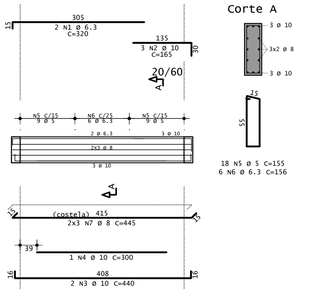


Corte A

16 N5 Ø 5 C=155
5 N6 Ø 6.3 C=156

V68

Volume m3	Área de forma m2
0.41	5.32

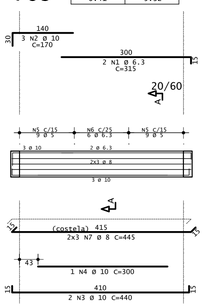


Corte A

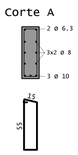
18 N5 Ø 5 C=155
6 N6 Ø 6.3 C=156

V69

Volume m3	Área de forma m2
0.41	5.32



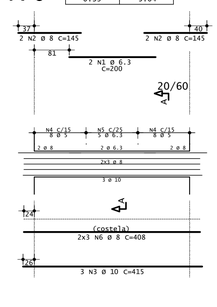
Corte A



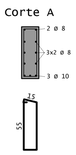
18 N5 Ø 5 C=155
6 N6 Ø 6.3 C=156

V70

Volume m3	Área de forma m2
0.39	5.04



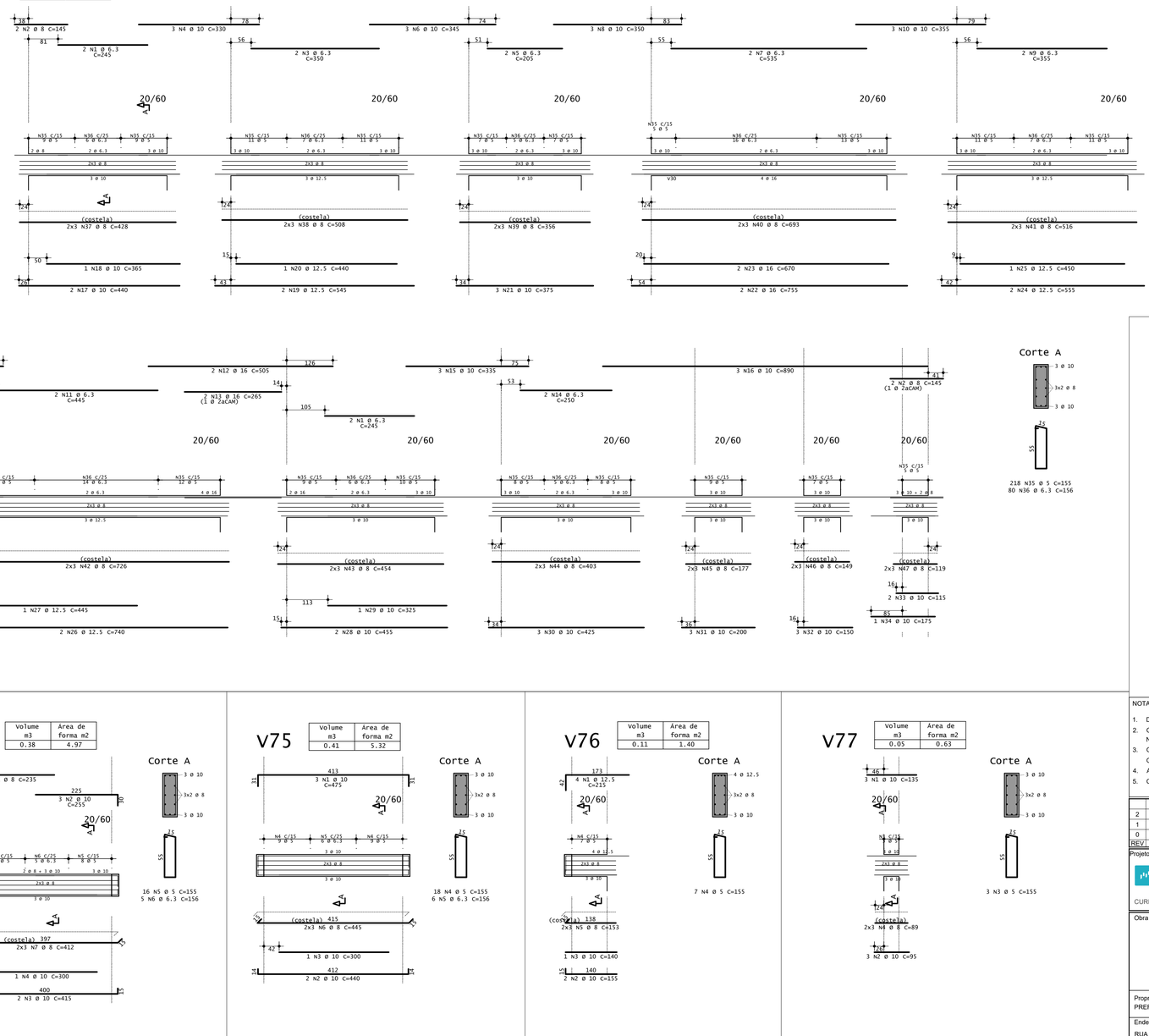
Corte A

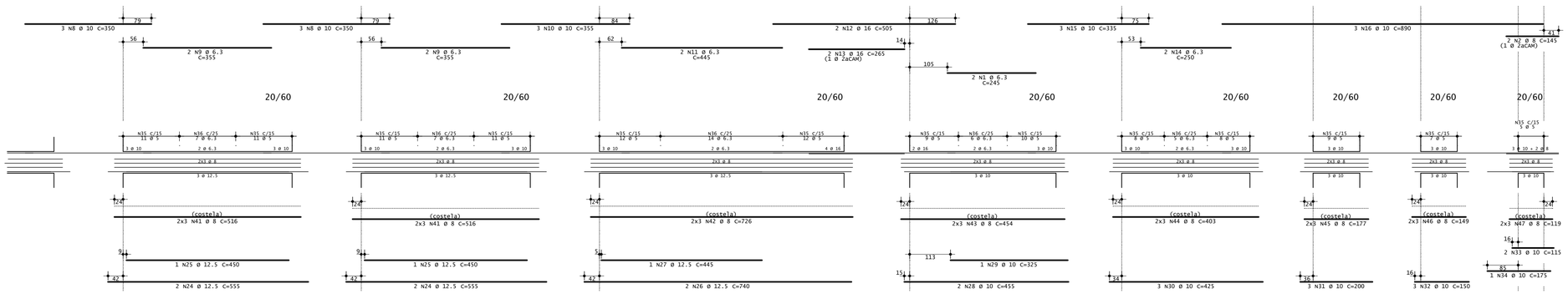


16 N4 Ø 5 C=155
5 N5 Ø 6.3 C=156

V71

Volume m3	Área de forma m2
7.45	96.6





Corte A

218 N35 Ø 5 C=155
80 N36 Ø 6.3 C=156

AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO UNIT (cm)	COMPRIMENTO TOTAL (cm)
V65					
50A	1	6.3	2	220	440
50A	2	8	4	145	580
50A	3	6.3	2	245	490
50A	4	10	2	440	880
50A	5	10	2	315	630
50A	6	6.3	2	455	910
50A	7	10	3	345	1035
50A	8	10	2	450	900
50A	9	10	1	295	295
50A	10	10	2	455	910
50A	11	10	1	325	325
50A	12	16	2	680	1360
50A	13	16	1	465	465
60A	14	5	64	155	9920
50A	15	6.3	20	156	3120
50A	16	8	12	454	5448
50A	17	8	6	630	3780
V66					
50A	1	10	3	195	585
50A	2	10	3	155	465
60A	3	5	7	155	1085
50A	4	8	6	149	894
V67					
50A	1	6.3	2	200	400
50A	2	8	4	145	580
50A	3	10	2	415	830
50A	4	10	1	315	315
60A	5	5	16	155	2480
50A	6	6.3	5	156	780
50A	7	8	6	408	2448
V68					
50A	1	6.3	2	320	640
50A	2	10	3	165	495
50A	3	10	2	440	880
50A	4	10	1	300	300
60A	5	5	18	155	2790
50A	6	6.3	6	156	936
50A	7	8	6	445	2670
V69					
50A	1	6.3	2	315	630
50A	2	10	3	170	510
50A	3	10	2	440	880
50A	4	10	1	300	300
60A	5	5	18	155	2790
50A	6	6.3	6	156	936
50A	7	8	6	445	2670
V70					
50A	1	6.3	2	200	400
50A	2	8	4	145	580
50A	3	10	3	415	1245
60A	4	5	16	155	2480
50A	5	6.3	5	156	780
50A	6	8	6	408	2448
V71					
50A	1	6.3	4	245	980
50A	2	8	4	145	580
50A	3	6.3	2	350	700
50A	4	10	3	330	990
50A	5	6.3	2	205	410
50A	6	10	3	345	1035
50A	7	6.3	2	535	1070
50A	8	10	9	350	3150
50A	9	6.3	6	355	2130
50A	10	10	6	355	2130
50A	11	6.3	2	445	890
50A	12	16	2	505	1010
50A	13	16	2	265	530
50A	14	6.3	2	250	500
50A	15	10	3	335	1005
50A	16	10	3	890	2670
50A	17	10	2	440	880
50A	18	10	1	365	365
50A	19	12.5	2	545	1090
50A	20	12.5	1	440	440
50A	21	10	3	375	1125
50A	22	16	2	755	1510
50A	23	16	2	670	1340
50A	24	12.5	6	555	3330
50A	25	12.5	3	450	1350
50A	26	12.5	2	740	1480
50A	27	12.5	1	445	445
50A	28	10	2	455	910
50A	29	10	1	325	325
50A	30	10	3	425	1275
50A	31	10	3	200	600
50A	32	10	3	150	450
50A	33	10	2	115	230
50A	34	10	1	175	175
60A	35	5	218	155	33790
50A	36	6.3	80	156	12480
50A	37	8	6	428	2568
50A	38	8	6	508	3048
50A	39	8	6	356	2136
50A	40	8	6	693	4158
50A	41	8	18	516	9288
50A	42	8	6	726	4356
50A	43	8	6	454	2724
50A	44	8	6	403	2418
50A	45	8	6	177	1062
50A	46	8	6	149	894
50A	47	8	6	119	734
V72					
50A	1	10	3	135	405
50A	2	10	3	95	285
60A	3	5	3	155	465
50A	4	8	6	89	534
V73					
50A	1	6.3	2	200	400
50A	2	8	4	145	580
50A	3	16	2	445	890
60A	4	5	20	155	3100
50A	5	6.3	4	156	624
50A	6	8	6	408	2448
V74					
50A	1	8	2	235	470
50A	2	10	3	255	765
50A	3	10	2	415	830
50A	4	10	1	300	300
60A	5	5	16	155	2480
50A	6	6.3	5	156	780
50A	7	8	6	412	2472
V75					
50A	1	10	3	475	1425
50A	2	10	2	440	880
50A	3	10	1	300	300
60A	4	5	18	155	2790
50A	5	6.3	6	156	936
50A	6	8	6	445	2670
V76					
50A	1	12.5	4	215	860
50A	2	10	2	155	310
50A	3	10	1	140	140
60A	4	5	7	155	1085
50A	5	8	6	153	918
V77					
50A	1	10	3	135	405
50A	2	10	3	95	285
60A	3	5	3	155	465
50A	4	8	6	89	534

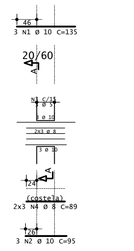
RESUMO DE AÇO			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60A	5	657	101
50A	6.3	324	79
50A	8	667	263
50A	10	354	219
50A	12.5	90	87
50A	16	71	112
Peso Total	60A =		101 kg
Peso Total	50A =		760 kg

WELIGTONN RENANN TAVARES: 00959132970

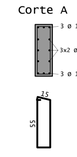
Assinado digitalmente por WELIGTONN RENANN TAVARES:00959132970
DN: C=BR, O=ICP-Brasil, OU=VideoConferencia, OU=29136505000100, OU=Secretaria da Receita Federal do Brasil - RFB, OU=RFB e-CPF A1, CN=WELIGTONN RENANN TAVARES:00959132970
Razão: Eu sou o autor deste documento
Data: 2022-04-05 14:34:27

V72

Volume m3	Área de forma m2
0.05	0.63



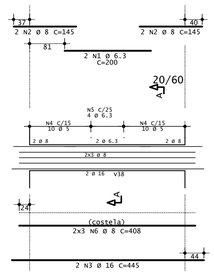
Corte A



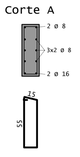
3 N3 Ø 5 C=155

V73

Volume m3	Área de forma m2
0.39	5.04



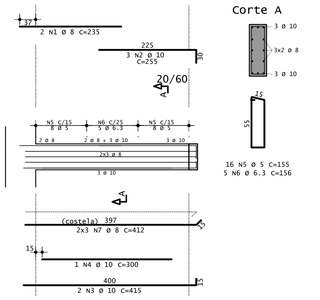
Corte A



20 N4 Ø 5 C=155
4 N5 Ø 6.3 C=156

V74

Volume m3	Área de forma m2
0.38	4.97



Corte A

16 N5 Ø 5 C=155
5 N6 Ø 6.3 C=156

V75

Volume m3	Área de forma m2
0.41	5.32

Corte A

18 N4 Ø 5 C=155
6 N5 Ø 6.3 C=156

V76

Volume m3	Área de forma m2
0.11	1.40

Corte A

7 N4 Ø 5 C=155

V77

Volume m3	Área de forma m2
0.05	0.63

Corte A

3 N3 Ø 5 C=155

NOTAS DE PROJETO:

1. DIMENSÕES EM cm, EXCETO ONDE INDICADO.
2. O CONCRETO UTILIZADO DEVERÁ SER DA CLASSE C30 CONFORME DISCRIMINADO NA NBR 6118 (ABNT, 2014).
3. O CONTROLE DAS DIMENSÕES AQUI APRESENTADAS DEVERÁ SER RIGOROSO, QUALQUER DIVERGÊNCIA O PROJETISTA DEVERÁ SER CONSULTADO.
4. ALTERAÇÕES DO PROJETO DEVERÃO SAR VALIDADAS PELO PROJETISTA.
5. COBRIMENTO MÍNIMO DAS ARMADURAS: 2,5 cm.

REV.	DESCRIÇÃO	DESENHO	APROV.	DATA
2	TABELA DE VOLUME E ÁREA DE FORMA	PJC	PJC	04/04/2022
1	TABELA DE VOLUME E ÁREA DE FORMA	PJC	PJC	25/03/2022
0	INICIAL	PJC	PJC	18/10/2019

Projeto estrutural

ENG° CIVIL WELIGTONN RENANN TAVARES
CREA PR 106098/D
contato: wrtavares@projecalc.com.br

ENG° CIVIL MATHEUS GALDINO DA SILVA
CREA PR 134229/D
contato: matheus@projecalc.com.br

CURITIBA - PR (41) 3013-4787

Obra

GINÁSIO DE ESPORTES PATO BRANCO

PROJETO EXECUTIVO

ARMADURAS DAS VIGAS BALDRAME - 07/10

Proprietário

PREFEITURA MUNICIPAL DE PATO BRANCO

Endereço

RUA BENJAMIN BORGES, BAIRRO FRARON, PATO BRANCO - PR

Escala: INDICADA

Data: 10/2019

NÚMERO: D-032-CF-007