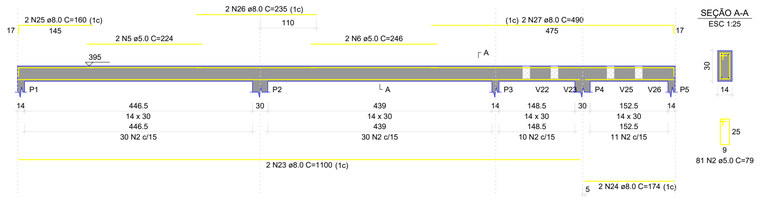
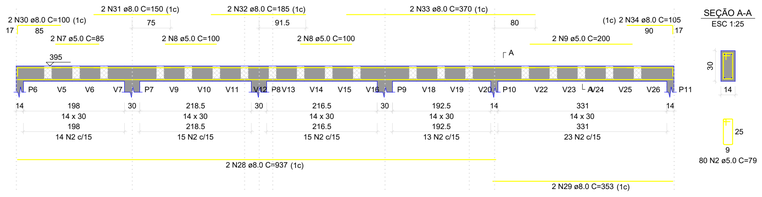
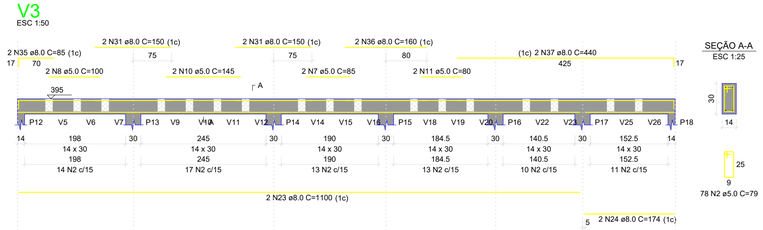
V1
ESC 1:50



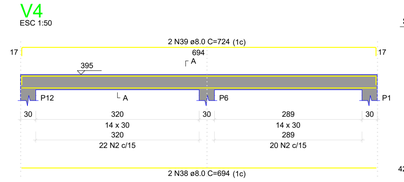
V2
ESC 1:50



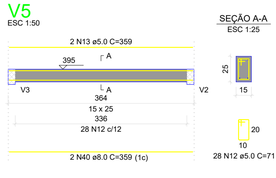
V3
ESC 1:50

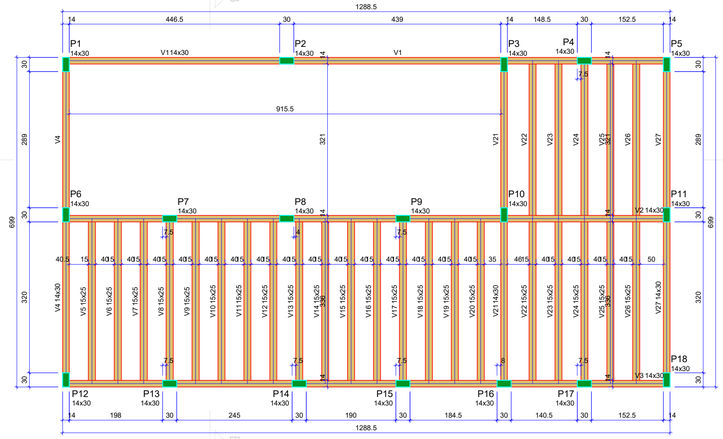


V4
ESC 1:50



V5
ESC 1:50

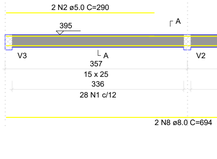




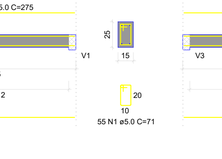
Forma do pavimento PAV 2 (Nível 395)

escala 1:50

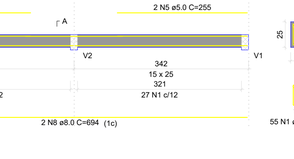
V6
ESC 1:50



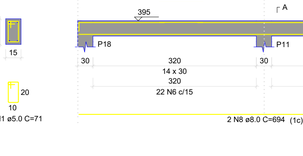
V7
ESC 1:50



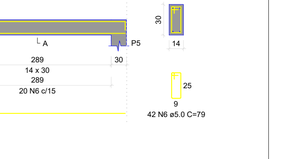
V8
ESC 1:50



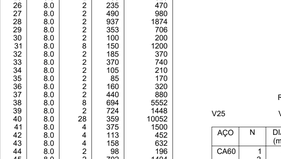
V9
ESC 1:50



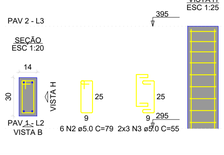
V10
ESC 1:50



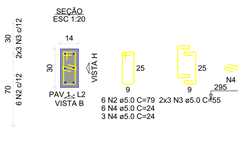
V11
ESC 1:50



V12
ESC 1:50

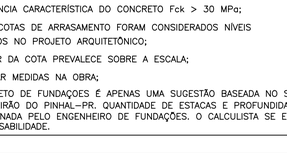


V13
ESC 1:50

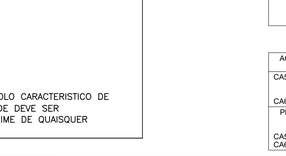


V14
ESC 1:50

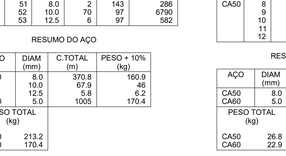
V15
ESC 1:50



V16
ESC 1:50



V17
ESC 1:50



V18
ESC 1:50

V19
ESC 1:50

V20
ESC 1:50

V21
ESC 1:50

P1

RELAÇÃO DO AÇO

P1	16xP2	P3
V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16	V17	V18
V19	V20	V21
V22	V23	V24

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	8	24	192
	2	5.0	431	79	34049
	3	5.0	108	55	5940
	4	5.0	9	24	216
	5	5.0	2	224	448
	6	5.0	2	246	492
	7	5.0	4	85	340
	8	5.0	6	100	600
	9	5.0	2	200	400
	10	5.0	2	145	290
	11	5.0	2	80	160
	12	5.0	615	71	43665
	13	5.0	26	359	9334
	14	5.0	4	135	540
	15	5.0	2	285	570
	16	5.0	2	123	246
	17	5.0	2	265	530
	18	5.0	2	250	500
	19	5.0	2	290	580
	20	5.0	2	275	550
	21	5.0	2	225	450
	22	5.0	2	205	410
CA50	23	8.0	4	1100	4400
	24	8.0	4	174	696
	25	8.0	2	160	320
	26	8.0	2	235	470
	27	8.0	2	490	980
	28	8.0	2	937	1874
	29	8.0	2	353	706
	30	8.0	2	100	200
	31	8.0	8	150	1200
	32	8.0	2	185	370
	33	8.0	2	370	740
	34	8.0	2	105	210
	35	8.0	2	85	170
	36	8.0	2	160	320
	37	8.0	2	440	880
	38	8.0	8	694	5552
	39	8.0	2	724	1448
	40	8.0	28	359	10052
	41	8.0	4	375	1500
	42	8.0	4	113	452
	43	8.0	4	158	632
	44	8.0	2	98	196
	45	8.0	2	702	1404
	46	8.0	2	125	250
	47	8.0	2	497	994
	48	8.0	2	200	400
	49	8.0	2	138	276
	50	8.0	2	50	100
	51	8.0	2	143	286
	52	10.0	70	97	6790
	53	12.5	6	97	582

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	370.8	160.9
	10.0	67.9	46
	12.5	5.8	6.2
CA60	5.0	1005	170.4

PESO TOTAL (kg)	
CA50	213.2
CA60	170.4

RELAÇÃO DO AÇO

V25 V26 V27

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	110	71	7810
	2	5.0	2	290	580
	3	5.0	2	275	550
	4	5.0	2	270	540
	5	5.0	2	255	510
	6	5.0	42	79	3318
	7	5.0	2	85	170
CA50	8	8.0	6	694	4164
	9	8.0	2	150	300
	10	8.0	2	190	380
	11	8.0	2	183	366
	12	8.0	2	477	954

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	61.6	26.8
CA60	5.0	134.8	22.9

PESO TOTAL (kg)	
CA50	26.8
CA60	22.9

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x30	0	395
V2	14x30	0	395
V3	14x30	0	395
V4	14x30	0	395
V5	15x25	0	395
V6	15x25	0	395
V7	15x25	0	395
V8	15x25	0	395
V9	15x25	0	395
V10	15x25	0	395
V11	15x25	0	395
V12	15x25	0	395
V13	15x25	0	395
V14	15x25	0	395
V15	15x25	0	395
V16	15x25	0	395
V17	15x25	0	395
V18	15x25	0	395
V19	15x25	0	395
V20	15x25	0	395
V21	14x30	0	395
V22	15x25	0	395
V23	15x25	0	395
V24	15x25	0	395
V25	15x25	0	395
V26	15x25	0	395
V27	14x30	0	395

Características dos materiais	
fck (kgf/cm²)	Ecs (kgf/cm²)
300	268384

Dimensão máxima do agregado = 19 mm

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	14x30	0	395
P2	14x30	0	395
P3	14x30	0	395
P4	14x30	0	395
P5	14x30	0	395
P6	14x30	0	395
P7	14x30	0	395
P8	14x30	0	395
P9	14x30	0	395
P10	14x30	0	395
P11	14x30	0	395
P12	14x30	0	395
P13	14x30	0	395
P14	14x30	0	395
P15	14x30	0	395
P16	14x30	0	395
P17	14x30	0	395
P18	14x30	0	395

Legenda dos pilares
Pilar que morre

Legenda das vigas e paredes
Viga

P2=P4=P5=P6=P7=P8=P9=P10=P11=P12=P13=P14=P15=P16=P17=P18

P3

NOTAS:

1 – RESISTÊNCIA CARACTERÍSTICA DO CONCRETO Fck > 30 MPa;

2 – P/ AS COTAS DE ARRASAMENTO FORAM CONSIDERADOS NÍVEIS INDICADOS NO PROJETO ARQUITETÔNICO;

3 – O VALOR DA COTA PREVALECE SOBRE A ESCALA;

4 – VERIFICAR MEDIDAS NA OBRA;

5 – O PROJETO DE FUNDAÇOES É APENAS UMA SUGESTÃO BASEADA NO SOLO CARACTERISTICO DE DE RIBEIRÃO DO PINHAL—PR. QUANTIDADE DE ESTACAS E PROFUNDIDADE DEVE SER DETERMINADA PELO ENGENHEIRO DE FUNDAÇÕES. O CALCULISTA SE EXIME DE QUAISQUER RESPONSABILIDADE.

PROJETO ESTRUTURAL

TÍTULO: LOCAÇÃO DOS PILARES E VIGAS

CLIENTE: PREFEITURA MUNICIAPAL DE RIEBIRÃO DO PINHAL - PR

OBRA: BANHEIRO PNE DE QUADRA ESPORTIVA

ENDEREÇO: PROL. DA RUA PEDRO MARTINS TRINDADE, S/N

BRUNHO HENRIQUE DE OLIVEIRA REGHIN
ENG. RESPONSÁVEL
CREA PR-129992/D

PRANCHA: 03/03

ESCALA: indicado

DATA: 04/06/2020

DESENHO: MAX PAULIV