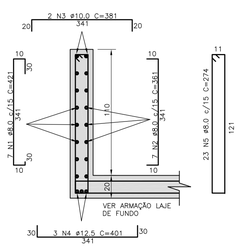
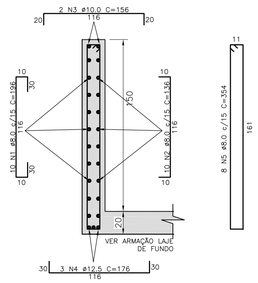
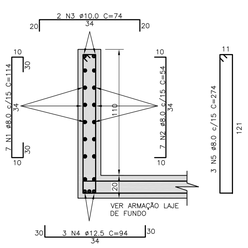
PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



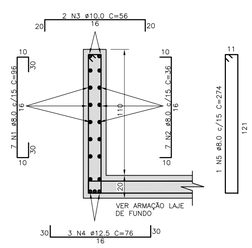
PAR 01 – ESC.: 1:25



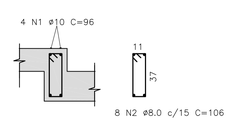
PAR 02 – ESC.: 1:25



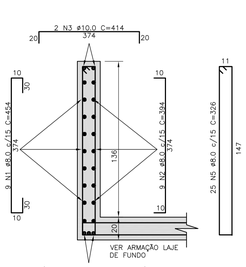
PAR 03 = PAR 10 (X2) – ESC.: 1:25



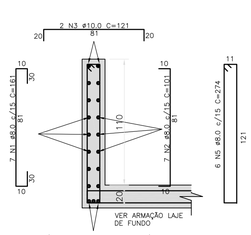
PAR 05 = PAR 12 (X2) – ESC.: 1:25



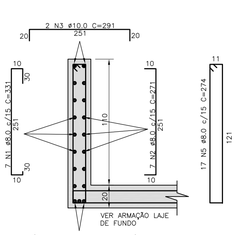
DETALHE 1 (X4) – ESC. 1:25



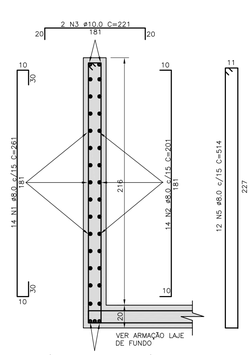
PAR 07 – ESC.: 1:25



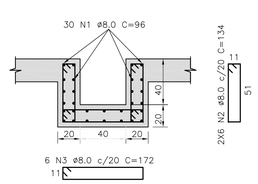
PAR 08 = PAR18 (X2) – ESC.: 1:25



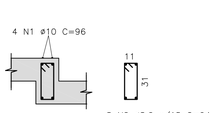
PAR 09 – ESC.: 1:25



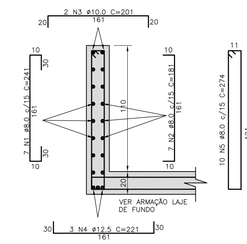
PAR 14 – ESC.: 1:25



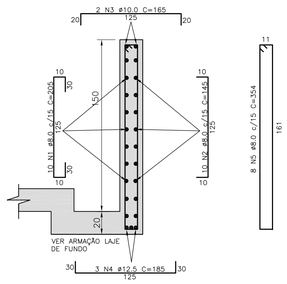
DETALHE 2 (X2) – ESC. 1:25



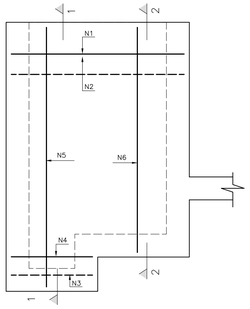
DETALHE 3 (X2) – ESC. 1:25



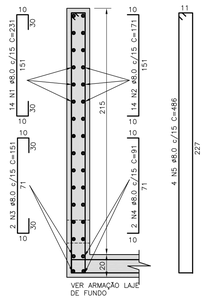
PAR 15 – ESC.: 1:25



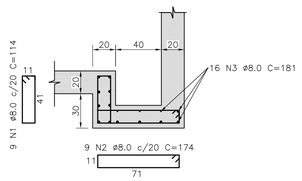
PAR 16 – ESC.: 1:25



PAR 19 = PAR20 – ESC.: 1:25



CORTE 1–1 (PAREDE 19–20)
ESC.: 1:25



DETALHE 4 – ESC.: 1:25

TABELA DE FERROS

ÍTEM	AÇO	POS.	BIT (mm)	QUANT.	COMPRIMENTO L UNIT	COMPRIMENTO L TOTAL
LAJE DE PISO	50	1	10.0	40	121	4840
	50	2	10.0	8	197	1576
	50	3	10.0	8	227	1816
	50	4	10.0	16	161	2576
	50	5	8.0	22	103	2266
	50	6	8.0	12	305	3660
	50	7	8.0	20	VAR	646
	50	8	8.0	12	146	1752
	50	9	8.0	12	190	2280
	50	10	8.0	20	VAR	686
	50	11	8.0	12	322	3864
	50	12	8.0	12	153	1836
	50	13	8.0	12	206	2472
	50	14	8.0	12	130	1560
	50	15	8.0	12	203	2436
	50	16	8.0	12	183	2196
	50	17	8.0	38	113	4294
	50	18	8.0	16	VAR	306
	50	19	8.0	78	103	8034
	50	20	8.0	12	VAR	604
	50	21	8.0	40	138	5520
	50	22	8.0	18	138	2484
	50	23	8.0	24	117	2808
DETALHE 1 (x4)	50	1	10.0	16	96	1536
	50	2	8.0	32	106	3392
DETALHE 2 (X2)	50	1	8.0	60	96	5760
	50	2	8.0	24	134	3216
	50	3	8.0	12	172	2064
DETALHE 3 (x2)	50	1	10.0	8	96	768
	50	2	8.0	16	94	1504
DETALHE4	50	1	8.0	9	114	1026
	50	2	8.0	9	174	1566
	50	3	8.0	16	181	2896
PAR 01	50	1	8.0	7	421	2947
	50	2	8.0	7	361	2527
	50	3	10.0	2	381	762
	50	4	12.5	3	401	1203
	50	5	8.0	23	274	6302
PAR02	50	1	8.0	10	196	1960
	50	2	8.0	10	136	1360
	50	3	10.0	2	156	312
	50	4	12.5	3	176	528
	50	5	8.0	8	354	2832
PAR 03 = PAR 10 (X2)	50	1	8.0	14	114	1596
	50	2	8.0	14	54	756
	50	3	10.0	4	74	296
	50	4	12.5	6	94	564
	50	5	8.0	6	274	1644
PAR 04 = PA11 (X2)	50	1	8.0	36	428	15408
	50	2	8.0	8	428	3424
	50	3	8.0	14	117	1638
	50	4	8.0	38	147	5586
	50	5	8.0	10	187	1870
PAR 05 =PAR12 (X2)	50	1	8.0	14	96	1344
	50	2	8.0	14	36	504
	50	3	8.0	4	56	224
	50	4	8.0	6	76	456
	50	5	8.0	2	274	548
PAR 06= PAR13 (X2)	50	1	8.0	36	370	13320
	50	2	8.0	4	307	1228
	50	3	8.0	4	96	384
	50	4	8.0	40	304	12160
	50	5	8.0	10	344	3440
PAR 07	50	1	8.0	9	454	4086
	50	2	8.0	9	394	3546
	50	3	10.0	2	414	828
	50	4	12.5	3	434	1302
	50	5	8.0	25	326	8150
PAR 08 = PAR18 (X2)	50	1	8.0	14	161	2254
	50	2	8.0	14	101	1414
	50	3	10.0	4	121	484
	50	4	12.5	6	141	846
	50	5	8.0	12	274	3288
PAR 09	50	1	8.0	7	331	2317
	50	2	8.0	7	271	1897
	50	3	10.0	2	291	582
	50	4	12.5	3	311	933
	50	5	8.0	17	274	4658
PAR 14	50	1	8.0	14	261	3654
	50	2	8.0	14	201	2814
	50	3	10.0	2	221	442
	50	4	12.5	3	241	723
	50	5	8.0	12	514	6168
PAR 15	50	1	8.0	7	241	1687
	50	2	8.0	7	181	1267
	50	3	10.0	2	201	402
	50	4	12.5	3	221	663
	50	5	8.0	10	274	2740
PAR 16	50	1	8.0	10	205	2050
	50	2	8.0	10	145	1450
	50	3	10.0	2	165	330
	50	4	12.5	3	185	555
	50	5	8.0	8	354	2832
PAR 19 = PAR 20 (X2)	50	1	8.0	28	231	6468
	50	2	8.0	28	171	4788
	50	3	8.0	4	151	604
	50	4	8.0	4	91	364
	50	5	8.0	8	486	3888
FURO DN 150 (X3)	50	1	8.0	36	105	3780
	50	2	8.0	9	65	585
FURO DN 200 (X3)	50	1	8.0	36	105	3780
	50	2	8.0	9	85	765

RESUMO DO AÇO CA50-60

AÇO	BIT (mm)	COMP. (m)	PESO (Kg)	PESO + 10%
50	8.0	2359	944	1038
50	10.0	176	111	122
50	12.5	73	70	78
TOTAL				1237

Nº	DATA	HISTÓRICO	AUTORIA	APROVAÇÃO
00	OUT/11	EMISSÃO	TECNOCAD	

NOTAS – CONVENÇÕES

1) UNIDADES: COTAS EM CENTÍMETROS e NÍVEIS EM METRO.
2) TENSÃO ATUANTE NO SOLO 50kN/m² (FUNDO DA ELEVATÓRIA)
3) COBRIMENTO DA ARMADURA= 4,5cm
4) CIMENTO: TODOS COM CLASSIFICAÇÃO RS (resistente a sulfatos), CP–III ou CP–IV;
–FATOR ÁGUA/CIMENTO <= 0,60.
–fCK = 40 MPa.
–ADICIONAR SÍLICA ATIVA (8 A 12%).
5) COMPACTAR O CASCALHO, AGULHANDO PEDRA, EM CAMADA ENTRE 20 a 30cm, ANTES DO LANÇAMENTO DO CONCRETO MAGRO.
6) MANTER A CURA DO CONCRETO POR NO MÍNINO 7 DIAS EVITANDO QUE O MESMO FIQUE EXPOSTO AO SOL SEM ESTAR UNIDECIDO.
7) A COTA DO TERRENO ESTÁ ACIMA DA COTA DE MÁXIMA ENCHENTE.

RESUMO TOTAL DO PROJETO

VOLUME DE CONCRETO ESTRUTURAL = 16,68m³
ÁREA DE FORMAS = 185,77m²

TABELA DE TRESPASSES

ø5.0 ==> 25cm
ø6.3 ==> 25cm
ø8.0 ==> 30cm
ø10.0 ==> 40cm
ø12.5 ==> 50cm
ø16.0 ==> 60cm
ø20.0 ==> 75cm

TECNOCAD ENGENHARIA

RESP.TÉC./A. PROJ.: CRISTOPH ARAÚJO GODINHO–CREA 7391/D–GO
tecnocad@tecnocad.eng.br
Fone/Fax: 062–3242.2456
Rua 104, N. 743 – Setor Sul – Goiânia – GO – CEP 74.080.240

BANCABD

SANEAMENTO DE GOIÁS S.A.

DES. / COPIA A.R.M.	DATA OUT/11	LOCAL / MUNICIPIO: RESIDENCIAL BEATRIZ NASCIMENTO/ GOIÂNIA	ORIGEM: TECNOCAD
PROJ. / CONFERE		TITULO: SISTEMA DE ESGOTOS SANITÁRIOS PROJETO ESTRUTURAL	COD. PROJETO: 478
LEVANT. / CALCULO		CAIXA DE AREIA — ARMAÇOES, PAREDES, DETALHES E LISTA DE FERRAGENS	HISTORICO (ALTERACAO): 0
GERÊNCIA: Arqt° Sebastião A. F. Filho			ESCALA: INDICADAS
SUPERINTENDÊNCIA: Eng° Godard Tedesco Vieira			FOLHA: 3/3
		AUTOR DO PROJETO	N. DO ARQUIVO

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