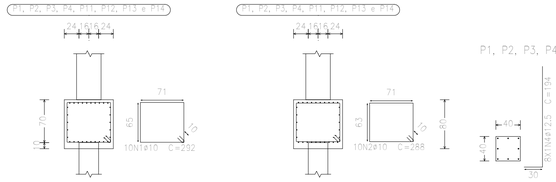
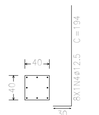
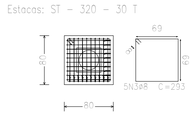
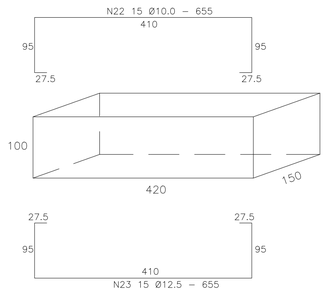
P1, P2, P3, P4, P11, P12, P13 e P14



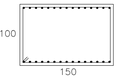




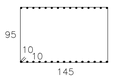
BLOCOS BASE GIGANTES 420x150x100 (x2)



SEÇÃO



ESTRIBOS 145x95 (x2)



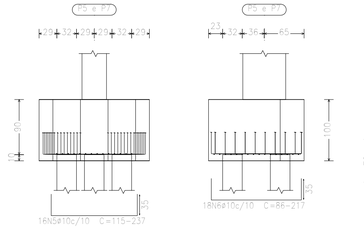
N22 15 Ø10.0 - 655 N24 30 Ø8.0 c/12 - 500
N23 15 Ø12.5 - 655

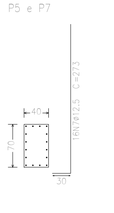
QUADRO RESUMO			
AÇO	BITOLA	COMP. TOTAL (m)	PESO + 10% (Kg)
CA-50	Ø6.3	621,92	167,60
	Ø8	252,55	71,54
	Ø10	1.454,06	1.260,71
	Ø12,5	493,83	523,13
CA - 60	Ø5	294,40	80,86
TOTA GERAL			2.103,84

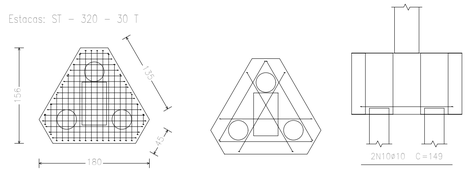
CONCRETO	
ELEMENTO	VOLUME (m³)
BLOCO 1 ESTACA	4,10
BLOCO 2 ESTACAS	11,58
BLOCO GIGANTE	6,30
ESTACAS	25,09
TOTA GERAL	47,07

ELEMENTO	POS.	DIÂM.	Q	DOB (cm)	RETA (cm)	COMP.com 1	TOALcom 1	CA-50 (kg)	CA-60(kg)
P1 – P2 – P3 – P4 – P11 – P12 – P13-P14	1	Ø10	10		292	292	2920	18,02	
	2	Ø10	10		288	288	2880	17,77	
	3	Ø8	5		293	293	1465	5,79	
	4	Ø12,5	8	30	164	194	1552	14,95	
							TOTAL + 10%	62,18	
							(X7)	435,26	
P5 – P7	5	Ø10	16		VAR.	VAR.	2976	18,36	
	6	Ø10	18		VAR.	VAR.	3060	18,88	
	7	Ø12,5	16	30	243	273	4368	42,06	
	8	Ø10	2		149	149	298	1,84	
	9	Ø10	2		149	149	298	1,84	
	10	Ø10	2		149	149	298	1,84	
							TOTAL + 10%	93,30	
							(X2)	186,60	
P6	5	Ø10	16		VAR.	VAR.	2976	18,36	
	6	Ø10	18		VAR.	VAR.	3060	18,88	
	7	Ø12,5	16	30	316	346	5536	53,31	
	8	Ø10	2		149	149	298	1,84	
	9	Ø10	2		149	149	298	1,84	
	10	Ø10	2		149	149	298	1,84	
							TOTAL + 10%	105,68	
							(X1)	105,68	
P8 – P10	5	Ø10	16		VAR.	VAR.	2976	18,36	
	6	Ø10	18		VAR.	VAR.	3060	18,88	
	7	Ø12,5	16	30	243	273	4368	42,06	
	8	Ø10	2		149	149	298	1,84	
	9	Ø10	2		149	149	298	1,84	
	10	Ø10	2		149	149	298	1,84	
							TOTAL + 10%	93,30	
							(X2)	186,60	
P9	5	Ø10	16		VAR.	VAR.	2976	18,36	
	6	Ø10	18		VAR.	VAR.	3060	18,88	
	7	Ø12,5	16	30	316	346	5536	53,31	
	8	Ø10	2		149	149	298	1,84	
	9	Ø10	2		149	149	298	1,84	
	10	Ø10	2		149	149	298	1,84	
							TOTAL + 10%	105,68	
							(X1)	105,68	
BLOCO GIGANTE	22	Ø10	15		665	665	9975	61,55	
	23	Ø12,5	15		665	665	9975	96,06	
	24	Ø8	30		500	500	15000	59,25	
							TOTAL + 10%	238,55	
							(X1)	238,55	
ESTACAS	A01	Ø10	6		600	600	3600	22,21	
	A02	Ø5	20		92	92	1840		2,83
	A03	Ø6.3	26		92	92	2392	5,86	
							TOTAL + 10%	30,88	3,11
							(X26)	802,80	80,86
Ø5									80,86
Ø6.3								167,60	
Ø8								71,54	
Ø10								1.260,71	
Ø12.5								523,13	
TOTAL								2.022,98	80,86

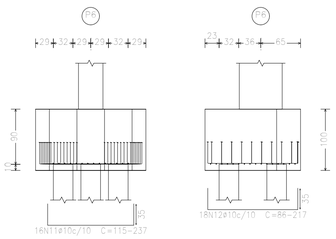
P5 e P7

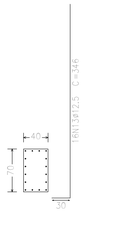


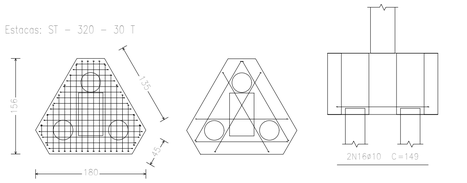




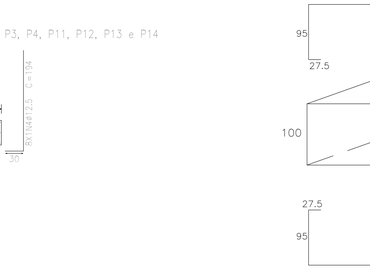
P6



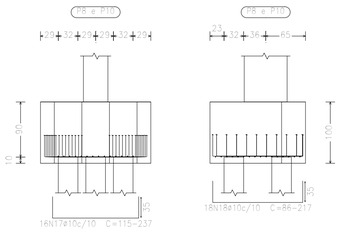


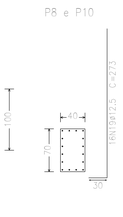


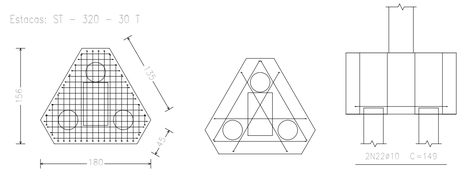
P9

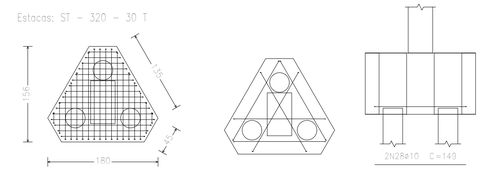


P8 e P10









DETALHAMENTO DAS ESTACAS ARMADAS

ESTACAS TIPO STRAUSS
- diam 32cm (26 X) - Profundidade média 12.00m ou até atingir a nega

FcK= 30.0 MPa Brita 1 e 2

ARMAÇÃO
26 X 6 A01 Ø10.0 C= 6,00m
630

CORTE ESTACAS
ZONA DE ARMADURA NORMAL

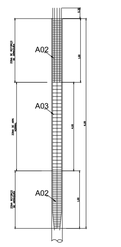
A01

32

ESTRIBOS A02
26 X 20 A02 Ø 5.0mm
cada 0,10m C= 0,92m

ESTRIBOS A03
26 X 26 A03 Ø 6.3mm
cada 0,15m C= 0,92m

CORTE ESTACAS



VOLUME CONCR. FCK-25Mpa = 12.54m³

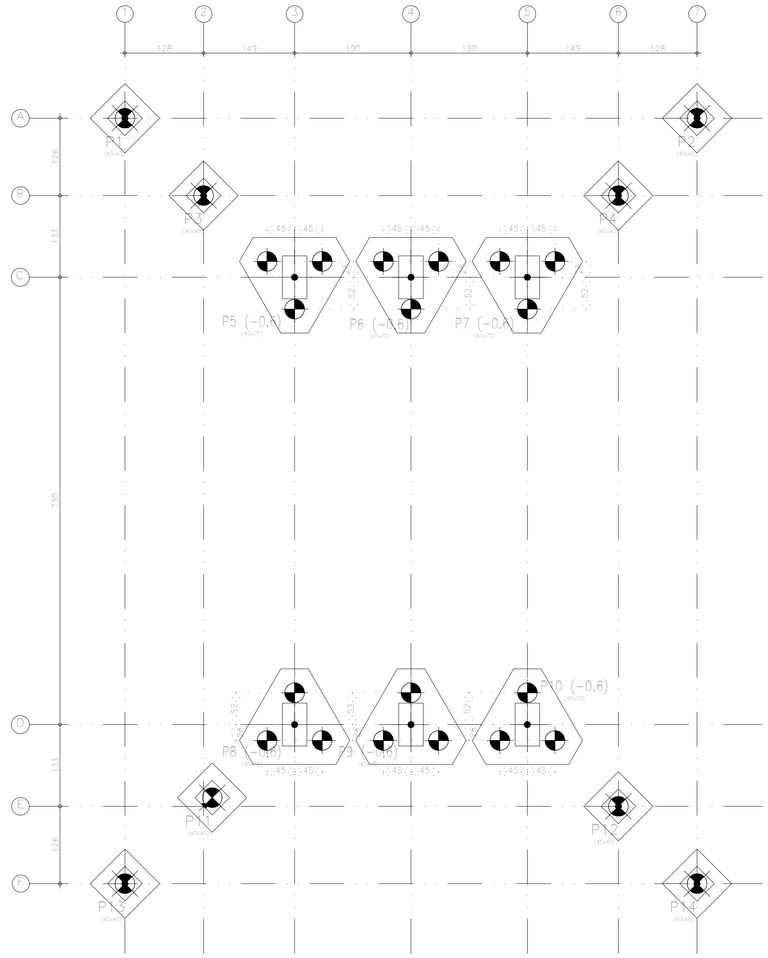
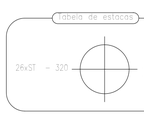


Tabela de estacas



Tipo Strauss – Concreto circular: ø32,0 cm
Capacidade de carga em combinações permanentes: 30,0 t
Capacidade de carga em combinações acidentais: 30,0 t

QUADRO DE ELEMENTOS DE FUNDAÇÃO							
Referências	Dimensões (cm)	Altura (cm)	Estacas	Armadura inf. X	Armadura inf. Y	Armadura perimetral	Vigas baldrame
P1, P2, P3, P4, P11, P12, P13 e P14	80 x 80	80	Tipo ST - 320 - 30 T; Penetração 10 cm			Estribos xy:5ø8,Estribos xz:10ø10,Estribos yz:10ø10	
P5, P6, P7, P8, P9 e P10	Vazio: 95(Distância estacas: 90)	160	Tipo ST - 320 - 30 T; Penetração 10 cm	ø10c/10	ø10c/10		Interior:2ø10

REV	DATA DA REVISÃO	DESCRIÇÃO	RESPONSÁVEL
R00	28/03/2022	EMISSÃO INICIAL	DEIBSON DIANINI DE OLIVEIRA

ART VINCULADA Nº: MG20221017910

A autenticidade desta ART pode ser verificada em: https://www.crea-mg.org.br/ e/ou crea-mg.gov.br/ (Fim)
Emitida em: 28/03/2022 às 18:02:28 por: ...477.141-20

CREA-MG

APROVAÇÃO

EDIFICAÇÃO

ÁREA CONSTRUIDA:	112,71 m²	COEFICIENTE DE APROVEITAMENTO:	N/A
ÁREA S/ CONSTRUIR:	N/A	TAXA DE OCUPAÇÃO:	N/A
ÁREA TOTAL:	112,71 m²	Nº DE UNIDADES:	N/A
ÁREA LÍQUIDA:	N/A	DATA DO PROJETO:	REVISÃO:
Nº DE PAVIMENTOS:	N/A	MAR/2022	R00

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE ITAPECERICA — C.N.P.J/CPF: 18.308.742/0003-44

RESPONSÁVEL TÉCNICO: DEIBSON DIANINI DE OLIVEIRA — CONTATO: (37) 9 9839-1030 — CREA: CREA-MG177789/D

DESENHISTA: ALISSON GERALDO SANTOS — CONTATO: (37) 9 9988-9830 — C.P.F.: 116.852.066-54

TITULO: PROJETO DE ESTRUTRA DE CONCRETO ARMADO - PONTE CASA QUEIMADA

CONTEUDO: LOCAÇÃO DA FUNDAÇÃO, ARMADURAS, DETALHES

LOGRADOURO / Nº / BAIRRO / CIDADE: ESTRADA RURAL PARA REGIÃO DE CASA QUEIMADA - MUNICIPIO DE ITAPECERICA - MG

Rívia
Engenharia & Consultoria

VISTO RT:
DEIBSON DIANINI DE OLIVEIRA:09711213621
Assinado de forma digital por DEIBSON DIANINI DE OLIVEIRA:09711213621
Dados: 2022.03.30 07:56:36 -03'00'
DEIBSON DIANINI DE OLIVEIRA
ENGENHEIRO CIVIL
CREA-MG177789/D

RESP. USO:
PREFEITURA MUNICIPAL DE ITAPECERICA
18.308.742/0003-44

ESCALA: 1:50 — PRANCHA: 1/5