

Technical drawing of a circular structure, likely a manhole or access point, showing four views: top (A), front (B), side (C), and perspective (A').

Top View (A): Shows a circular structure with a radius of $R\ 1.75$. The outer diameter is 149.2 . The inner diameter is 140 . The structure is divided into four quadrants by a horizontal and vertical centerline. The top quadrant is labeled "A". The bottom quadrant is labeled "B". The left quadrant is labeled "C". The right quadrant is labeled "C". The top quadrant is further divided into four sub-quadrants by a horizontal and vertical centerline. The top sub-quadrant is labeled "A". The bottom sub-quadrant is labeled "B". The left sub-quadrant is labeled "C". The right sub-quadrant is labeled "C". The top sub-quadrant is further divided into four sub-sub-quadrants by a horizontal and vertical centerline. The top sub-sub-quadrant is labeled "A". The bottom sub-sub-quadrant is labeled "B". The left sub-sub-quadrant is labeled "C". The right sub-sub-quadrant is labeled "C". The top sub-sub-quadrant is further divided into four sub-sub-sub-quadrants by a horizontal and vertical centerline. The top sub-sub-sub-quadrant is labeled "A". The bottom sub-sub-sub-quadrant is labeled "B". The left sub-sub-sub-quadrant is labeled "C". The right sub-sub-sub-quadrant is labeled "C". The top sub-sub-sub-quadrant is further divided into four sub-sub-sub-sub-quadrants by a horizontal and vertical centerline. The top sub-sub-sub-sub-quadrant is labeled "A". The bottom sub-sub-sub-sub-quadrant is labeled "B". The left sub-sub-sub-sub-quadrant is labeled "C". The right sub-sub-sub-sub-quadrant is labeled "C".

Front View (B): Shows the structure from the front. The total height is 164.7 . The structure is divided into three main sections: a top section of 19.6 , a middle section of 120 , and a bottom section of 6 . The total width is 140 . The structure is labeled "B".

Side View (C): Shows the structure from the side. The total width is 140 . The structure is divided into three main sections: a top section of 20 , a middle section of 100 , and a bottom section of 20 . The total height is 140 . The structure is labeled "C".

Perspective View (A'): Shows the structure from a perspective view. The structure is labeled "A'".

Additional Box (CAIXA ADICIONAL): A rectangular box is shown on the right side of the drawing, labeled "CAIXA ADICIONAL". It is connected to the structure by a line.

Technical drawing of a hydraulic projection system, showing a top view and a side view.

Top View Dimensions:

- Overall width: 470
- Overall height: 175
- Central hole diameter: 164.7
- Offset from center to top-left corner: 175
- Offset from center to top-right corner: 175
- Offset from center to bottom-left corner: 125
- Offset from center to bottom-right corner: 140
- Offset from center to top edge: 40
- Offset from center to right edge: 20
- Offset from center to bottom edge: 20
- Offset from center to left edge: 20
- Offset from center to top-left corner: 30
- Offset from center to top-right corner: 30
- Offset from center to bottom-left corner: 30
- Offset from center to bottom-right corner: 30

Side View Dimensions:

- Overall height: 140
- Overall width: 100
- Offset from center to top edge: 20
- Offset from center to right edge: 20
- Offset from center to bottom edge: 20
- Offset from center to left edge: 20

Labels and Notes:

- "A", "B", "C": Labels indicating specific points or features.
- CAIXA ADICIONAL: Label indicating an additional box.
- L1, L2: Labels indicating specific components or features.
- VER POSICIONAMENTO E DIMENSÕES NO PROJ. HIDRÁULICO: Note indicating that the positioning and dimensions should be verified in the hydraulic project.

Technical drawing of a reinforced concrete slab (SOLO DE FUNDACAO) showing dimensions and reinforcement details. The drawing includes a cross-section of the slab with a central vertical column and a horizontal beam. Dimensions are given in centimeters (cm). The slab thickness is 19.65 cm. The total height of the slab is 34.5 cm. The width of the slab is 56.5 cm. The slab is supported by a foundation (SOLO DE FUNDACAO) with a bearing capacity of $f_s \geq 1.0 \text{ kgf/cm}^2$. The drawing also shows a section of the slab with a diagonal reinforcement bar (A5) and a section of the slab with a horizontal reinforcement bar (A5).

565

19.65

130

16.00

16.00

435

25

25

CAIXA ADICIONAL

SOLO DE FUNDAÇÃO

$f_{s, \geq 1.0 \text{ knf/cm}^2}$

RESUMO DOS MATERIAIS (TOTAL)		
DIVISÃO	ÁREA DE FORMAS (m ²)	VOLUME DE CONCRETO (m ³)
LAJES	9,58	5,61
PAREDES	178,77	18,58
TOTAL :	188,35	24,19

PENA	ESP.
01	0.10
02	0.20
03	0.30
04	0.40
05	0.50
06	0.60
07	0.70
08	0.01
09	0.90
10	1.00
11	0.20
12	0.20
13	0.20
14	0.20
15	0.20
16	0.20
17	0.01

		01		INCLUSÃO DA CX. DE DESCARGA DE FUNDO				MAIO/10
NÚMEROS	TÍTULOS	Nº	LOCAL	DISCRIMINAÇÃO	DES.	DIV.	GER.	DATA
PRINCIPAIS DESENHOS DE REFERÊNCIA				REVISÃO				

CANCELA E SUBSTITUI
O DESENHO NÚMERO:

CANCELADO E SUBSTITUI
TUÍDO PELO DESENHO
NÚMERO:

CENTRO DE DOCUMENTAÇÃO	
RECEBIDO: / / /	
Nº DOC.:	ASS.:
APROVAÇÃO CESAN:	
ASS.:	MATR.:
UNID.:	DATA: / /
ESTA APROVAÇÃO NAO ISENTA A CONTRATADA DE SUAS RESPONSABILIDADES LEGAIS.	

EMITENTE:		Consórcio enger 	
PROJETADO:		COORDENADOR:	
ERROL TOEWS		ORLANDO ESTEVES	
CREA: 4335/D	REGIÃO: PR	CREA: 16.832/D	REGIÃO: R
DESENHO: LUCIANO	N° DES. PROJETISTA:		
DATA: 19/11/2007	CECAL.DS.09.C.TE.033/0		
RESPONSÁVEL TÉCNICO:	ARTUR NEVES		
CREA: 15552/79	REGIÃO: ES	ART N°: _____	DATA: ____/____/____
RESPONSÁVEL TÉCNICO:	EDUARDO SOUZA DE CARVALHO		
CREA: 083634/D	REGIÃO: SP	ART N°: _____	DATA: ____/____/____

			
	EMISSÃO CESAN		DATAS
1	VERIFICADO:	ENG° NIZE MARIA C. GOMES	/ /
	DIVISÃO:	ENG° SERGIO F. MEYRELLES	/ /
	GERÊNCIA:	ENG° JOSÉ CARLOS DALBEM	/ /

 CESAN <i>Qualidade em Saneamento</i>			
MUNICÍPIO: VIANA	DISTRITO: SEDE	BAIRRO: SANTO AGOSTINHO	
NOME DO EMPREENDIMENTO: PROJETO 09 – IMPLANTAÇÃO DO SIST. DE ESGOTAMENTO SANITÁRIO DE VIANA-CENTRO			
TÍTULO: ESTAÇÃO DE TRATAMENTO DE ESGOTO – ETE VIANA ADENSADOR DE LODO FORMAS E CORTES			
ESCALA:	INDICADA	FOLHA:	REV:
		01 / 02	01
		Nº CESAN	
		A-048-000-92-4-XX-0053	