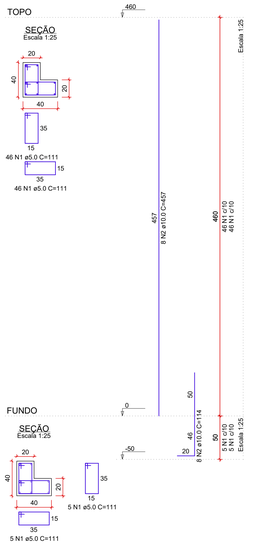
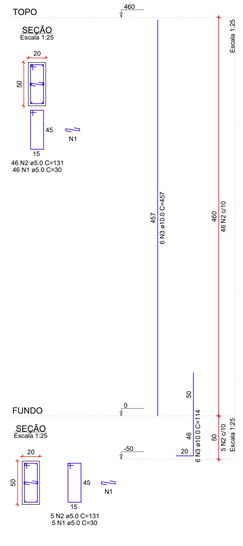
PROJETO DE DRENAGEM PLUVIAL
ESCALA INDICADA

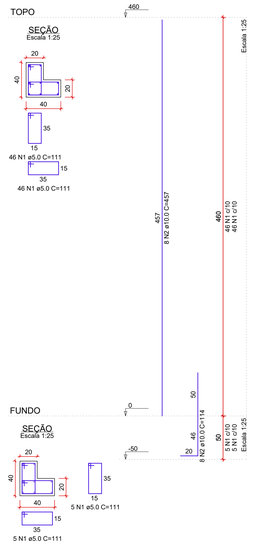
P1



P2



P3



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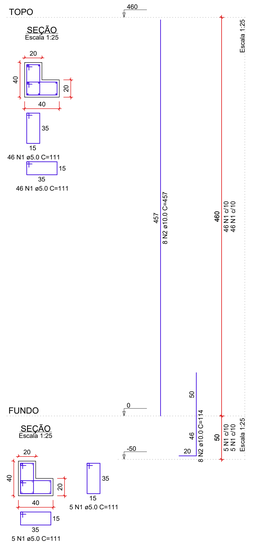
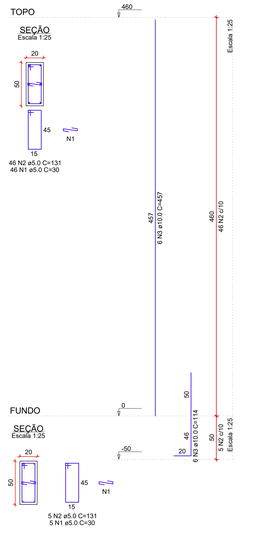


P5



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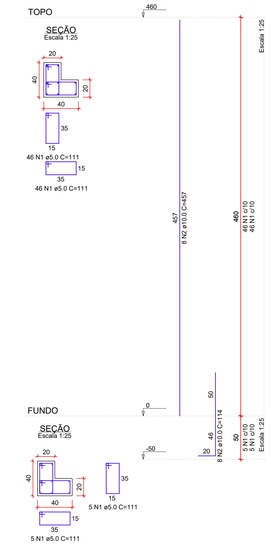
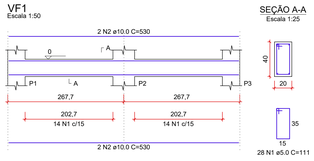
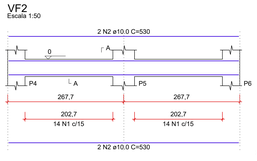


VF1

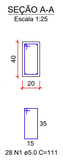


SEÇÃO A-A
Escala 1:25

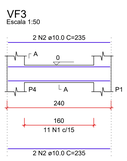
VF2



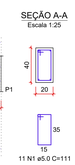
SEÇÃO A-A
Escala 1:25



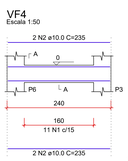
VF3



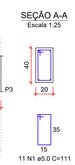
SEÇÃO A-A
Escala 1:25



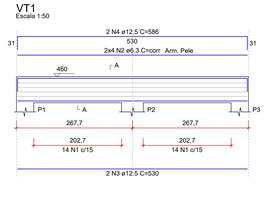
VF4



SEÇÃO A-A
Escala 1:25

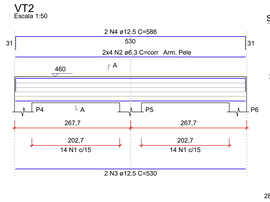


VT1

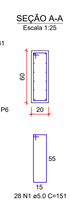


SEÇÃO A-A
Escala 1:25

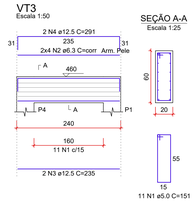
VT2



SEÇÃO A-A
Escala 1:25

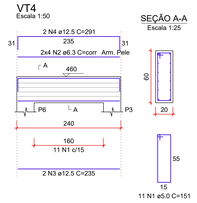


VT3



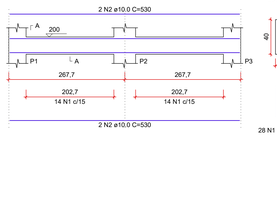
SEÇÃO A-A
Escala 1:25

VT4

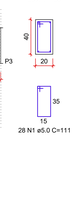


SEÇÃO A-A
Escala 1:25

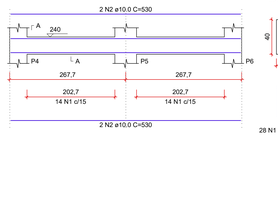
VT5



SEÇÃO A-A
Escala 1:25

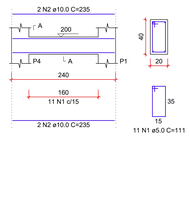


VT6



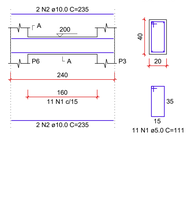
SEÇÃO A-A
Escala 1:25

VT7



SEÇÃO A-A
Escala 1:25

VT8

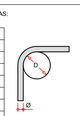


SEÇÃO A-A
Escala 1:25

DIÂMETRO MÍNIMO DOS PINOS DE DOBRAMENTO DAS BARRAS:

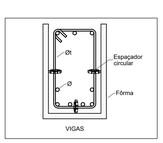
ESTRIBOS	
Ø (mm)	D (mm)
5,0	15,0
6,3	18,9
8,0	24,0
10,0	30,0
12,5	62,5
16,0	80,0
>= 20,0	8xø

BARRAS DE TRAÇÃO	
Ø (mm)	D (mm)
5,0	30,0
6,3	31,5
8,0	40,0
10,0	50,0
12,5	62,5
16,0	80,0
>= 20,0	8xø

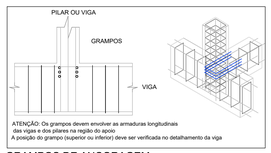


GANCHO DOS ESTRIBOS:

DETALHE DE DOBRAS
SEM ESCALA

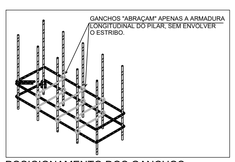


ESPAÇADORES NAS VIGAS
SEM ESCALA

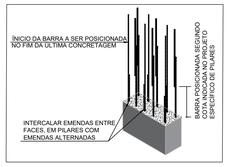


GRAMPOS DE ANCORAGEM
SEM ESCALA

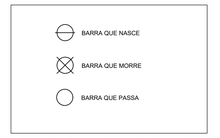
GRAMPOS DE ANCORAGEM
SEM ESCALA



POSICIONAMENTO DOS GANCHOS
SEM ESCALA



MONTAGEM DE ARMADURAS ALTERNADAS
NOS PILARES
SEM ESCALA



LEGENDA DAS BARRAS DOS PILARES
SEM ESCALA

RELAÇÃO DO AÇO - PILARES

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
P1-L2	CA60	1	5.0	92	111	10212
	CA50	2	10.0	8	457	3656
P1-L1	CA60	1	5.0	10	111	1110
	CA50	2	10.0	8	114	912
P2-L2	CA60	2	5.0	46	30	1380
	CA60	2	5.0	46	131	6026
	CA50	3	10.0	6	457	2742
P2-L1	CA60	1	5.0	5	30	150
	CA60	2	5.0	5	131	655
	CA50	3	10.0	6	114	684
P3-L2	CA60	1	5.0	92	111	10212
	CA50	2	10.0	8	457	3656
P3-L1	CA60	1	5.0	10	111	1110
	CA50	2	10.0	8	114	912
P4-L2	CA60	1	5.0	92	111	10212
	CA50	2	10.0	8	457	3656
P4-L1	CA60	1	5.0	10	111	1110
	CA50	2	10.0	8	114	912
P5-L2	CA60	1	5.0	46	30	1380
	CA60	2	5.0	46	131	6026
	CA50	3	10.0	6	457	2742
P5-L1	CA60	1	5.0	5	30	150
	CA60	2	5.0	5	131	655
	CA50	3	10.0	6	114	684
P6-L2	CA60	1	5.0	92	111	10212
	CA50	2	10.0	8	457	3656
P6-L1	CA60	1	5.0	10	111	1110
	CA50	2	10.0	8	114	912

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	10.0	251.2	24	170.4
CA60	5.0	617.1	57	104.6
PESO TOTAL (kg)				
CA50	170.4			
CA60	104.6			

Volume de concreto (C-30) = 3.13 m³
Área de forma = 42.32 m²

RELAÇÃO DO AÇO - VIGAS FUNDO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VF1	CA60	1	5.0	28	111	3108
	CA50	2	10.0	4	530	2120
VF2	CA60	1	5.0	28	111	3108
	CA50	2	10.0	4	530	2120
VF3	CA60	1	5.0	11	111	1221
	CA50	2	10.0	4	235	940
VF4	CA60	1	5.0	11	111	1221
	CA50	2	10.0	4	235	940

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	10.0	61.2	6	41.5
CA60	5.0	86.6	8	14.7
PESO TOTAL (kg)				
CA50	41.5			
CA60	14.7			

Volume de concreto (C-30) = 0.90 m³
Área de forma = 8.48 m²

RELAÇÃO DO AÇO - VIGAS TOPO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
VT1	CA60	1	5.0	28	151	4228
	CA50	2	6.3	8	corr	4240
	CA50	3	12.5	2	530	1060
	CA50	4	12.5	2	586	1172
VT2	CA60	1	5.0	28	151	4228
	CA50	2	6.3	8	corr	4240
	CA50	3	12.5	2	530	1060
	CA50	4	12.5	2	586	1172
VT3	CA60	1	5.0	11	151	1661
	CA50	2	6.3	8	corr	1680
	CA50	3	12.5	2	235	470
	CA50	4	12.5	2	291	582
VT4	CA60	1	5.0	11	151	1661
	CA50	2	6.3	8	corr	1680
	CA50	3	12.5	2	235	470
	CA50	4	12.5	2	291	582
VT5	CA60	1	5.0	28	111	3108
	CA50	2	10.0	4	530	2120
VT6	CA60	1	5.0	28	111	3108
	CA50	2	10.0	4	530	2120
VT7	CA60	1	5.0	11	111	1221
	CA50	2	10.0	4	235	940
VT8	CA60	1	5.0	11	111	1221
	CA50	2	10.0	4	235	940

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	6.3	122.4	12	32.9
	10.0	61.2	6	41.5
	12.5	65.7	7	69.6
CA60	5.0	204.4	19	34.6
PESO TOTAL (kg)				
CA50	144.1			
CA60	34.6			

Volume de concreto (C-30) = 2.26 m³
Área de forma = 24.88 m²

REV.	DATA	DESCRIÇÃO:	RESP.:
00	16/08/23	EMISSÃO INICIAL	DAC

REVISÃO| DATA : | DESCRIÇÃO: | RESP.:

CLIENTE

Prefeitura Municipal de **Pouso Alegre**

PROJETO

DAC engenharia
Rua Cel. Joaquim Francisco nº 341, Bairro Varginha
CEP: 37501-052 – Itajubá / MG
Tel: (35) 3623-8846
www.dacengenharia.com.br

COORDENAÇÃO
ALÓISIO CAETANO FERREIRA
Aloísio Caetano Ferreira — Assinado de forma digital por Aloísio Caetano Ferreira: Dados: 2023.09.06 14:41:44 -03'00'

RESPONSÁVEL TÉCNICO E AUTOR
Flávia Cristina Barbosa — Assinado de forma digital por Flávia Cristina Barbosa: Dados: 2023.09.06 14:41:57 -03'00'
ENG. CIVIL FLÁVIA BARBOSA — MG-187.842/D

EMPREENDIMENTO
DRENAGEM DO BAIRRO SÃO JUDAS TADEU

ENDEREÇO
BAIRRO SÃO JUDAS
POUSO ALEGRE – MINAS GERAIS

DISCIPLINA
DRENAGEM

FASE DO PROJETO
EXECUTIVO

ASSUNTO
PROJETO DE DRENAGEM PLUVIAL
PROJETO ESTRUTURAL DOS POÇOS DE VISITA ESPECIAIS
PVE 07

FOLHA Nº
18/18

DATA INICIAL	ESCALA	REVISÃO	ARQUIVO
16/08/2023	INDICADA	R00	DAC-PMPA-SJD-PE-DRE-R00.DWG