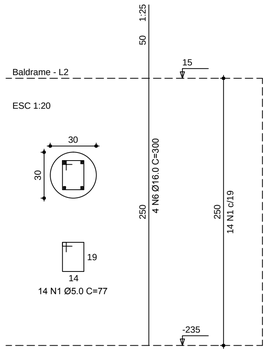
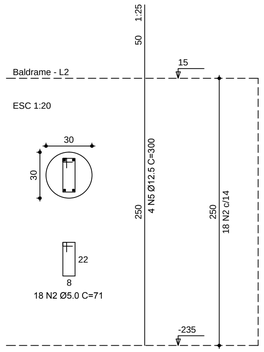
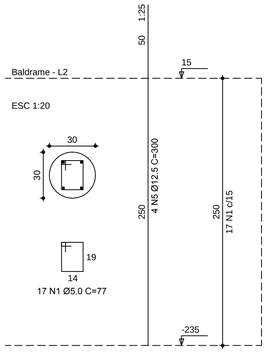
ESPERA DOS PILARES
P1=P2=P3=P21=P22=P23



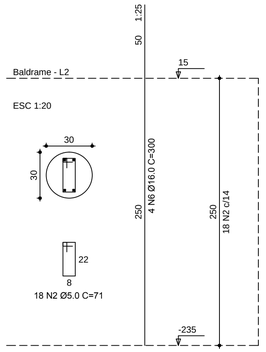
P10=P12=P16=P19



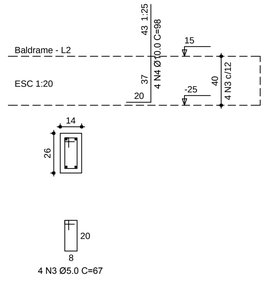
P13=P14



P4=P5=P6=P7=P9=P11=P15=P17 =P18=P24=P25=P26=P27



P8=P20



RELAÇÃO DO AÇO

6xP1 13xP4 2xP8
4xP10 2xP13

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	118	77	9086
	2	5.0	306	71	21726
	3	5.0	8	67	536
50	4	10.0	8	98	784
	5	12.5	24	300	7200
	6	16.0	76	300	22800

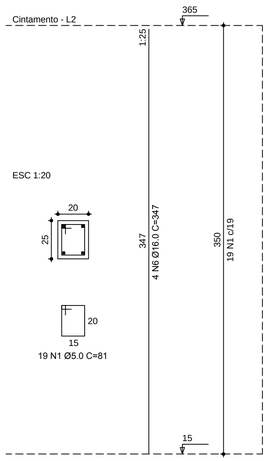
RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	10.0	7.8	5.3
	12.5	72.0	76.3
	16.0	228.0	395.8
CA60	5.0	313.5	53.1
PESO TOTAL			
CA50	477.4		
CA60	53.1		

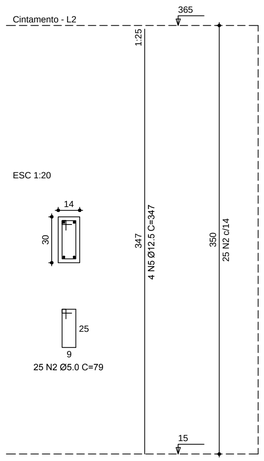
Vol. concreto estacas (C-25) = 10.50 m³

Área de forma total = 0.00 m²

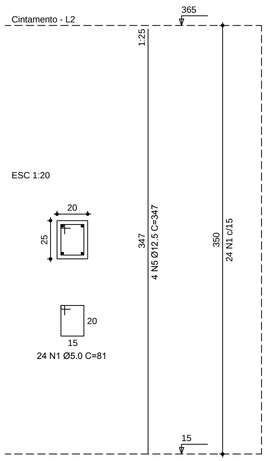
PILARES
P1=P2=P3=P21=P22=P23



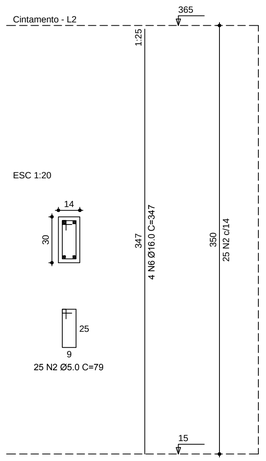
P10=P12=P16=P19



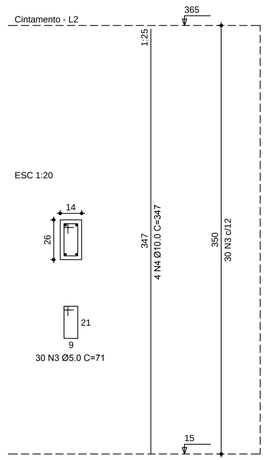
P13=P14



P4=P5=P6=P7=P9=P11=P15=P17 =P18=P24=P25=P26=P27



P8=P20



RELAÇÃO DO AÇO

6xP1 13xP4 2xP8
4xP10 2xP13

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
60	1	5.0	162	81	13122
	2	5.0	425	79	33575
	3	5.0	60	71	4260
50	4	10.0	8	347	2776
	5	12.5	24	347	8328
	6	16.0	76	347	26372

RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	10.0	27.8	18.8
	12.5	83.3	88.2
	16.0	263.7	457.9
CA60	5.0	512.8	86.9
PESO TOTAL			
CA50	564.9		
CA60	86.9		

Vol. concreto (C-25) = 4.15 m³

Área de forma total = 83.16 m²

CARIMBOS:

UFFS
UNIVERSIDADE FEDERAL DA FRONTEIRA SUL
Secretaria Especial de Obras-SEO

Avenida Fernando Machado, nº 108 E - Bloco 2 Sala 2.2.05
Centro, Chapecó, SC - Contatos: (Geral) (049) 2101 2518 - (049) 2101 2519 - Site Oficial: www.uffs.edu.br

EQUIPE TÉCNICA SECRETARIA ESPECIAL DE OBRAS:

SECRETÁRIO DE OBRAS:	ENG. CIV. RODRIGO EMMER	CREA/SC 109826-8
DIRETOR DE PROJETOS:	ARQ. URB. WELLINGTON TISCHER	CAU/BR A59629-9
DIRETORIA DE OBRAS - SEO:		
CHAPECÓ/SC:	ENG. CIV. FÁBIO ALEX ZENARO	CREA/SC 103121-3
	ENG. ELETRIC. MATHEUS TODESCATT	CREA/SC 111551-1
CERRO LARGO/RS:	ENG. CIV. PAULO ROBERTO HENDGES	CREA/RS 107012
	ENG. CIV. ANDRÉ LUIS CHANDELLE	CREA/PR 115769
ERECHIM/RS:	ENG. CIV. JULIANA ANA CHANDELLE	CREA/RS 127886
LARANJEIRAS DO SUL/PR:	ENG. CIV. FÁBIO ONETTA	CREA/PR 84187-D
REALEZA/PR:	ENG. CIV. FABRICIO BALESTRIN	CREA/PR 127466
DIRETORIA DE PROJETOS - SEO:		
ARQ. URB. ADRIANA FREITAG MCOTT		CAU/BR A41125-6
ENG. CIV. FÁBIO CORREA GASPARETTO		CREA/SC 067202-6
ENG. ELETRIC. SILVIO ANTONIO TESTON		CREA/SC 094339-6
ENG. ELETRIC. VICTOR LACERDA DA SILVA		CREA/SC 143788-6
ENG. SANIT. ADEMIR TANCINI		CREA/SC 113550-2
ENG. MEC. DANIEL ESPIG		CREA/SC 114137-1
TEC. ELETRIC. ANDERSON PRADO		CREA/SC 095327-4
TEC. ELETROTEC. DIEGO DADATTO		CREA/SC 119361-4
TEC. ADM. RAFAEL GRIEBELER		
TEC. ADM. SCHEYLA MARIA CARDINAL		
A.T.I. LEANDRO PEREIRA		

ENG. CIV. RODRIGO EMMER
CREA/SC 109826-8
RESPONSÁVEL SEO-UFFS

ENG. CIV. RODRIGO EMMER
109826-8
RESPONSÁVEL TÉCNICO

LOCAL: LARANJEIRAS DO SUL - PR	FASE: PROJETO EXECUTIVO	ESCALA: 1:20 E 1:25
OBRA: PAVILHÃO DE PATRIMÔNIO E ALMOXARIFADO	REVISÃO Nº: R01	TAMANHO FOLHA: 841x420
PROJETO: ESTRUTURAL	DATA: 30/04/2019	Nº PRANCHA: EST 04/06
CONTEÚDO: DETALHAMENTO - ESTACAS E ESPERAS DOS PILARES DETALHAMENTO - PILARES	DESENHADO POR: RODRIGO	
ENDEREÇO: RODOVIA BR 158, KM 405, CEP 85301-970	NOME DO ARQUIVO: GALP+PATR+ALM_UFFS_L5_PE_PLANTAS+DET+ESTR.DWG	