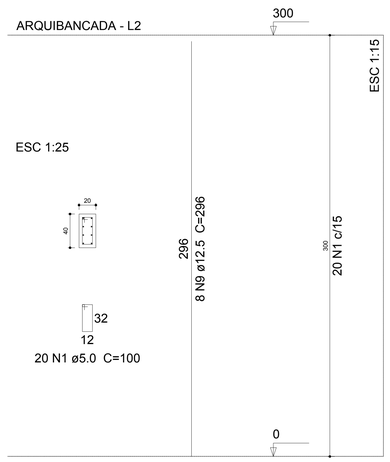
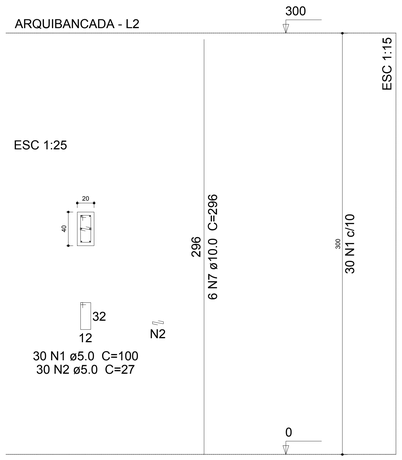
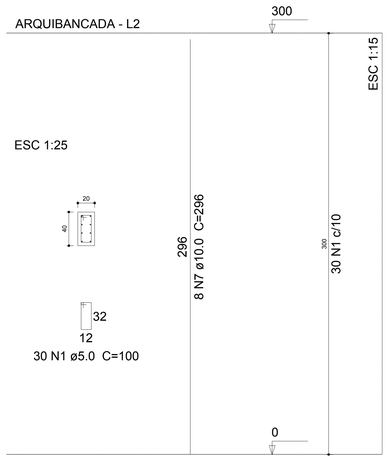
P12=P48



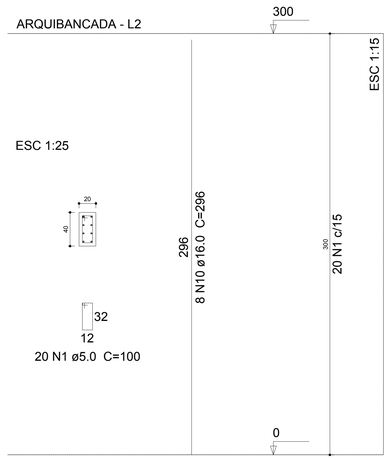
P13=P14=P44=P51=P55=P58=P63=P82=P90



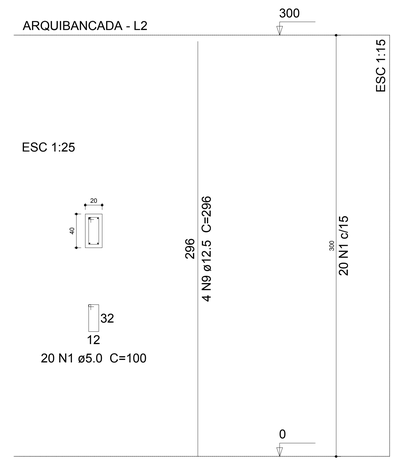
P16



P34=P45=P52



P37



Relação do aço

2xP12	9xP13	P16
3xP34	P37	P38
P49	3xP60	P61
3xP81	2xP84	2xP86
P88	2xP97	

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	698	100	69800
	2	5.0	482	27	13014
	3	5.0	20	27	540
	4	5.0	60	27	1620
	5	5.0	30	120	3600
	6	5.0	174	120	20880
CA50	7	10.0	86	296	25456
	8	10.0	52	411	21372
	9	12.5	38	296	11248
	10	16.0	34	296	10064
	11	16.0	4	431	1724

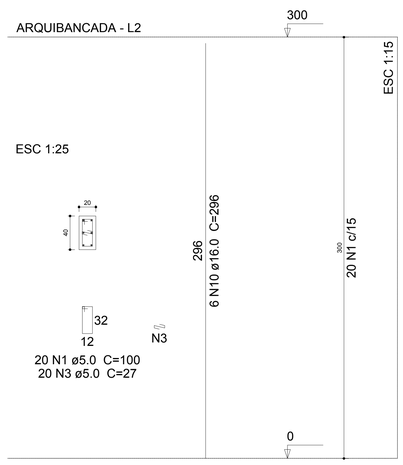
Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	468.3	317.6
	12.5	112.5	119.2
	16.0	117.9	204.7
CA60	5.0	1094.6	185.6

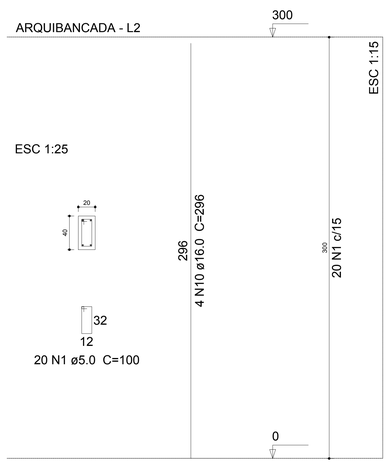
PESO TOTAL (kg)	
CA50	641.4
CA60	185.6

Volume de concreto (C-30) = 8.93 m³
Área de forma = 126.76 m²

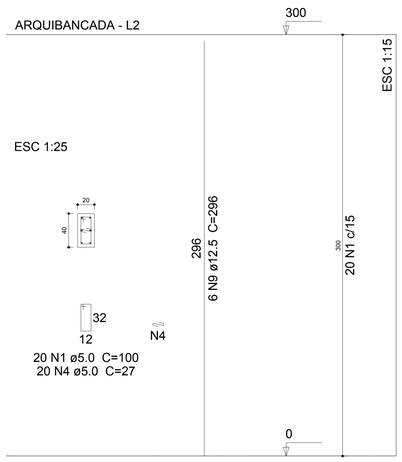
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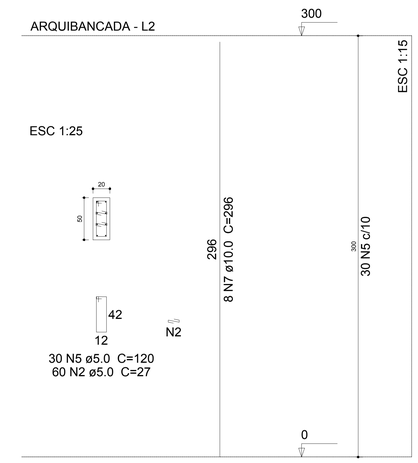
P49



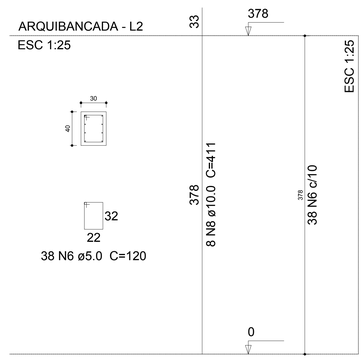
P60=P93=P94



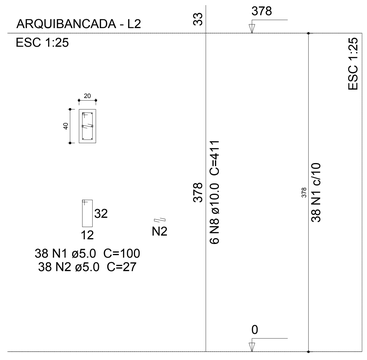
P61



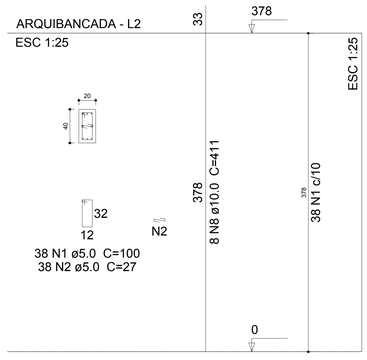
P81=P83=P89



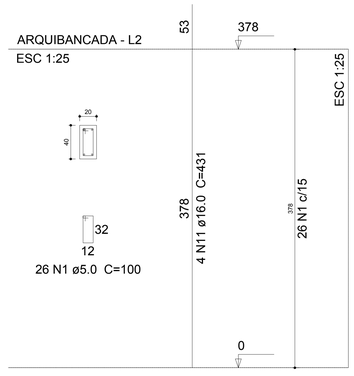
P84=P85



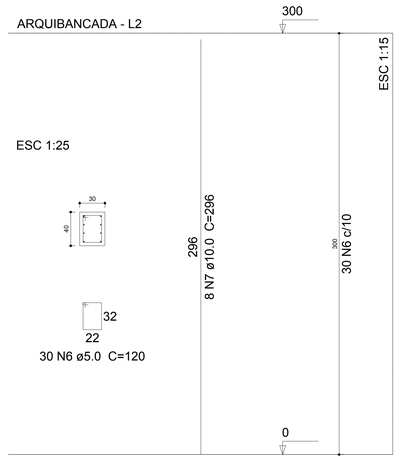
P86=P87



P88



P97=P100



18 PILARES CONVENCIONAIS
ESCALA: 1/25

Engeobra
CREA SC 158.404-0
ENGENHARIA E INFRAESTRUTURA

Rua Primo Tacca, 350, Bairro Tacca - Xanxerê- SC
E-mail:engenharia.engeobra@gmail.com Cel: (49) 9 9976-0226

OBRA: GINÁSIO SANTA TEREZINHA

LOCAL: Rua Achiles Biassotto, s/n, Bairro Guarany - Xaxim - SC

PROJETO: PROJETO ESTRUTURAL

ESPECIFICAÇÕES:
- Pilares convencionais

DATA: 02/2022

DESENHO: T.L

ÁREA: 3.544,73 m²

ESCALA: Indicada

PRANCHA: 12 /26

Projeto:

Assinado de forma digital por SAMUEL SPESSATTO OUTEIRO:04412294527
Dados: 2022.03.09 14:18:34 -03'00'

SAMUEL SPESSATTO OUTEIRO
Eng° Civil- CREA SC 133319-7

Proprietário:

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CNPJ.82.854.670/0001-30