VIGA BALDRAME-VB1(14x30)-(01x)

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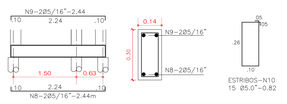
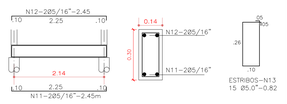
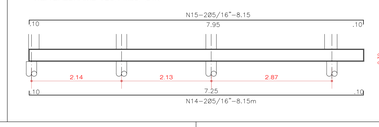


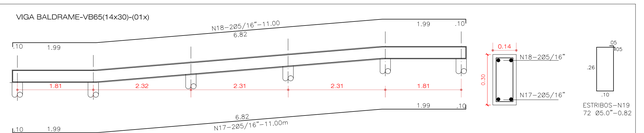
VIGA BALDRAME-VB3(14x30)-(01x)



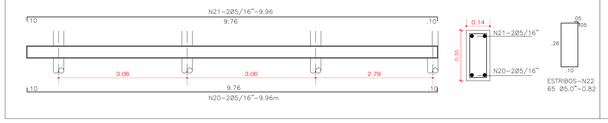
VIGA BALDRAME-VB5(14x30)-(01x)



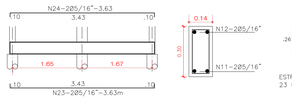
VIGA BALDRAME-VB65(14x30)-(01x)



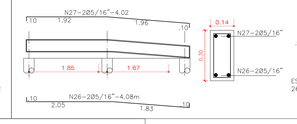
VIGA BALDRAME-VB7(14x30)-(01x)



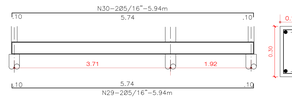
VIGA BALDRAME-VB9,11(14x30)-(02x)



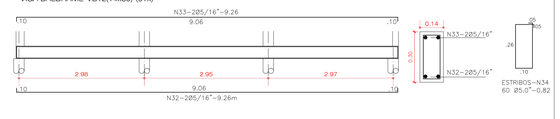
VIGA BALDRAME-VB8(14x30)-(01x)



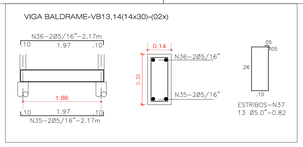
VIGA BALDRAME-VB10(14x30)-(01x)



VIGA BALDRAME-VB12(14x30)-(01x)



VIGA BALDRAME-VB13,14(14x30)-(02x)



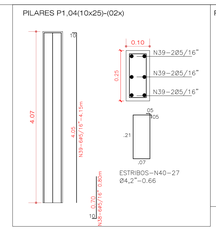
RESUMO TOTAL DOS FERROS-CONCRETO-(BALDRAMES)

					COMPRIMENTO			
VIGAS	AÇO	POS	BIT(mm)	QUANT.	TOTAL(m)	kg/m	TOTAL(kg)	P(kg+10%)
FERRO	CA-50							
	CA-50		5/16"		322,00	0.395	127,19	139,90
							127,19	139,90
TOTAL GERAL	CA-60		5.0		422,00	0.154	64,98	71,48
	CA-50							
	CONCRETO Fck 25MPa.							3,42m3
	FORMAS							42,00m2

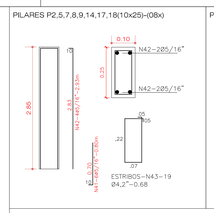
RESUMO TOTAL DOS FERROS-CONCRETO-(PILARES)

					COMPRIMENTO			
VIGAS	AÇO	POS	BIT(mm)	QUANT.	TOTAL(m)	kg/m	TOTAL(kg)	P(kg+10%)
FERRO	CA-50		3/8"		175,00	0.617	107,97	118,77
	CA-50		5/16"		246,00	0.395	97,17	106,88
							205,14	225,65
TOTAL GERAL	CA-60		5.0		248,00	0.154	38,19	42,01
	CA-50							
	CONCRETO Fck 25MPa.							1.88m3
	FORMAS							23,00m2

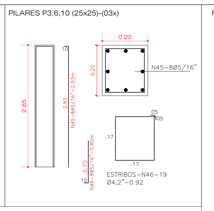
PILARES P1,04(10x25)-(02x)



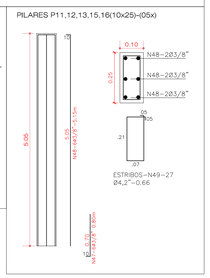
PILARES P2,5,7,8,9,14,17,18(10x25)-(08x)

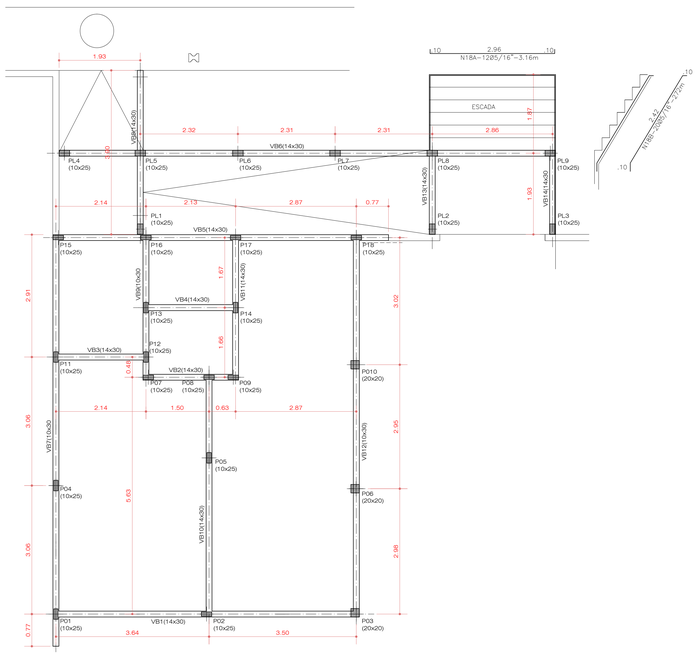


PILARES P3,6,10 (25x25)-(03x)



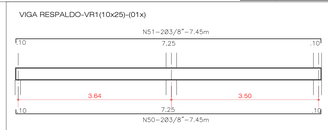
PILARES P11,12,13,15,16(10x25)-(05x)



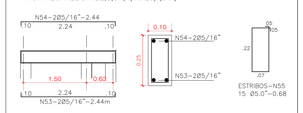


PLANTA DE FORMA DOS BALDRAMES E LOCAÇÃO DE PILARES

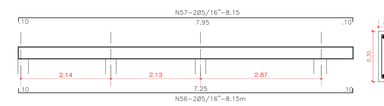
VIGA RESPALDO-VR1(10x25)-(01x)



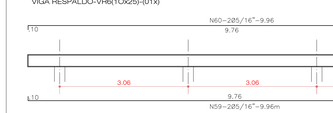
VIGA RESPALDO-VB2,3,3A,4(10x25)-(04x)



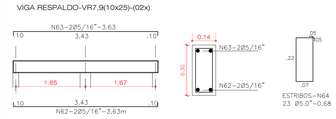
VIGA RESPALDO-VR5(10x25)-(01x)



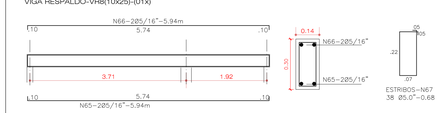
VIGA RESPALDO-VR6(10x25)-(01x)



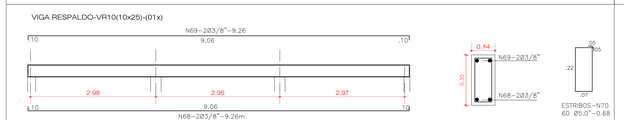
VIGA RESPALDO-VR7,9(10x25)-(02x)



VIGA RESPALDO-VR8(10x25)-(01x)



VIGA RESPALDO-VR10(10x25)-(01x)



RESUMO TOTAL DOS FERROS-CONCRETO-(VIGA RESPALDO)

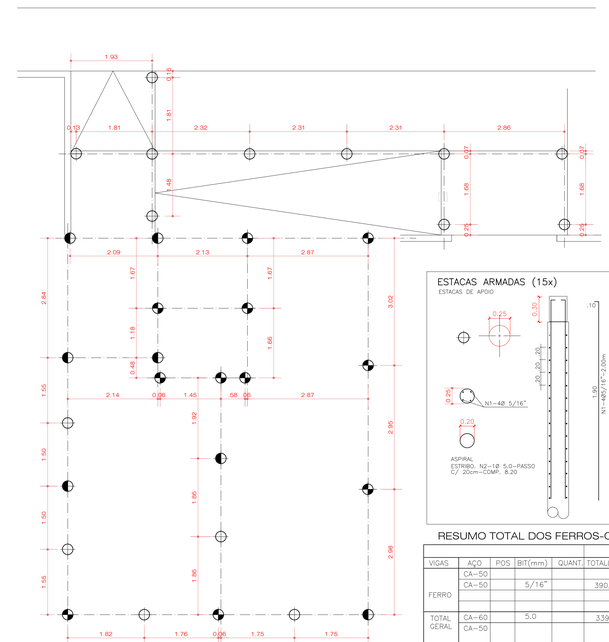
					COMPRIMENTO			
VIGAS	AÇO	POS	BIT(mm)	QUANT.	TOTAL(m)	kg/m	TOTAL(kg)	P(kg+10%)
FERRO	CA-50		3/8"		67,00	0.617	41,33	45,47
	CA-50		5/16"		165,00	0.395	65,17	71,69
							106,50	117,16
TOTAL GERAL	CA-60		5.0		268,00	0.154	41,27	45,39
	CA-50							
	CONCRETO Fck 25MPa.							1.48m3
	FORMAS							35,00m2
	LAJE PRÉ-FABRICADA							6,35m2

RESUMO TOTAL DOS FERROS-CONCRETO-(ESCADA ENTRADA)

					COMPRIMENTO			
VIGAS	AÇO	POS	BIT(mm)	QUANT.	TOTAL(m)	kg/m	TOTAL(kg)	P(kg+10%)
FERRO	CA-50							
	CA-50		5/16"		94,00	0.395	37,13	40,84
TOTAL GERAL	CA-60							
	CA-50							
	CONCRETO Fck 25MPa.							1.35m3
	FORMAS							7,80m2

RESUMO TOTAL DOS FERROS-CONCRETO-(ARQUIBANCADA)

					COMPRIMENTO			
VIGAS	AÇO	POS	BIT(mm)	QUANT.	TOTAL(m)	kg/m	TOTAL(kg)	P(kg+10%)
FERRO	CA-50							
	CA-50		5/16"		378,00	0.395	149,31	164,24
TOTAL GERAL	CA-60							
	CA-50							
	CONCRETO Fck 25MPa.							3.44m3
	FORMAS							22,58m2



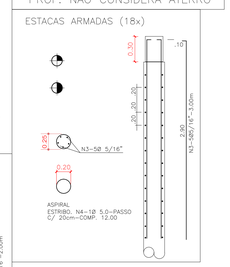
ESTAQUEAMENTO

LEGENDA DO ESTAQUEAMENTO

- ESTACA Ø 25cm- 2 TON-2 METROS
- ESTACA Ø 25cm- 3,0 TON-3,00 METROS
- ESTACA Ø 25cm- 4,0 TON-4,00 METROS

PROF. NÃO CONSIDERA ATERRO

ESTACAS ARMADAS (18x)

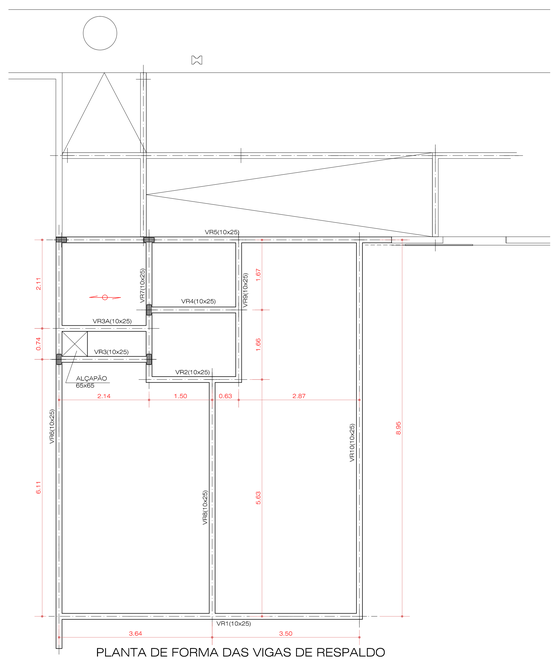


ESTACAS ARMADAS (15x)

ESTACAS DE APOIO

RESUMO TOTAL DOS FERROS-CONCRETO-(ESTACAS)

					COMPRIMENTO			
VIGAS	AÇO	POS	BIT(mm)	QUANT.	TOTAL(m)	kg/m	TOTAL(kg)	P(kg+10%)
FERRO	CA-50							
	CA-50		5/16"		390,00	0.395	154,05	169,45
							154,05	169,45
TOTAL GERAL	CA-60		5.0		339,00	0.154	54,20	57,42
	CA-50							
	CONCRETO Fck 20MPa.							4,37m3
	QUANTIDADE DE ESTACAS							87,00m



PLANTA DE FORMA DAS VIGAS DE RESPALDO

PRAZO MINIMO DE DESFORMA:

PIARES E FACES LATERAIS DE VIGAS .....03 DIAS
FACES INF. DE VIGAS(DEIXANDO PONTALETES ESPAÇADOS0 .....15 DIAS
FACES INF. DE VIGAS SEM PONTALETES E LAJES DE VÃO 10,00 METROS DE VÃO .....15 DIAS

NOTAS GERAIS:

1.1 – CONFERIR MEDIDAS NO LOCAL DA OBRA.
1.2 – CONFRONTAR PROJETO ESTRUTURAL COM ARQUITETÔNICO.
1.3 – CURAR CONCRETO NO MINICO 15 DIAS.
1.4 – DUVIDAS CONSULTAR O CALCULISTA.
1.5 – SEGUIR NBR 8118/82.
1.6 – CONCRETO FCK=20.0 MPA NAS ESTACAS; FCK30.0 MPA NOS DEAMIS DA ESTRUTURA

NOTAS REFERENTES FUNDAÇÕES:

2.1 – AS VIGAS VB EXECUTAR SOBRE OS BLOCOS O CALCULISTA É RESPONSAVEL APENAS PELO FORNECIMENTO DAS CARGAS NECESSARIAS AO PROJETO DE FUNDAÇÕES.
2.2 – TOTAL RESPONSABILIDADE DO ENG. DE FUNDAÇÕES OU EMPRESA EXECUTORA DAS FUNDAÇÕES.
2.2.1 – DETERMINAÇÃO DAS PROFUNDIDADES DAS ESTACAS IDEN.

CONSTRUÇÃO DE UMA LANCHONETE EM ALVENARIA

ZAMPAR EMPREENDIMENTOS
RUA RODOLFO ALFREDO SCHLATTER, 270, ITAMBÉ-PR.
FONE (44) 98449008568 • carlaszampar1@gmail.com

PROPRIEDADE DE:

PREFEITURA MUNICIPAL DE ITAMBÉ

DESENHO: CARLOS

RESP. TÉCNICO: MICHELLE CRISTINA DUARTE:02245959900 — MICHELLE CRISTINA Assinado de forma digital por MICHELLE CRISTINA DUARTE:02245959900 Dados: 2026.03.09 10:10:22 -03'00'
98
MICHELLE CRISTINA DUARTE
ENG. CIVIL CREA-PR 151112-D/PR

LOCAL: LOTE Nº 7602/A + GLEBA DO RIBEIRÃO IJUHY ITAMBÉ – PARANÁ

DATA: __/__/__

TITULO: LANCHONETE
COMPLEXO EXPORTIVO (GINASIO DE EXPORTE)
PROJETO ESTRUTURAL - ESTAQUEQMENTO, BALDRAMES, PILARES VIGAS RESPALDO

N.F./F.N.: 03/01