

Relatório de fundação

Item	00-001430	08-001001	08-001002	08-001003	08-001004	08-001005	08-001006	08-001007	08-001008	08-001009	08-001010	08-001011	08-001012	08-001013	08-001014	08-001015	08-001016	08-001017	08-001018	08-001019	08-001020	08-001021	08-001022	08-001023	08-001024	08-001025	08-001026	08-001027	08-001028	08-001029	08-001030	08-001031	08-001032	08-001033	08-001034	08-001035	08-001036	08-001037	08-001038	08-001039	08-001040	08-001041	08-001042	08-001043	08-001044	08-001045	08-001046	08-001047	08-001048	08-001049	08-001050	08-001051	08-001052	08-001053	08-001054	08-001055	08-001056	08-001057	08-001058	08-001059	08-001060	08-001061	08-001062	08-001063	08-001064	08-001065	08-001066	08-001067	08-001068	08-001069	08-001070	08-001071	08-001072	08-001073	08-001074	08-001075	08-001076	08-001077	08-001078	08-001079	08-001080	08-001081	08-001082	08-001083	08-001084	08-001085	08-001086	08-001087	08-001088	08-001089	08-001090	08-001091	08-001092	08-001093	08-001094	08-001095	08-001096	08-001097	08-001098	08-001099	08-001100	08-001101	08-001102	08-001103	08-001104	08-001105	08-001106	08-001107	08-001108	08-001109	08-001110	08-001111	08-001112	08-001113	08-001114	08-001115	08-001116	08-001117	08-001118	08-001119	08-001120	08-001121	08-001122	08-001123	08-001124	08-001125	08-001126	08-001127	08-001128	08-001129	08-001130	08-001131	08-001132	08-001133	08-001134	08-001135	08-001136	08-001137	08-001138	08-001139	08-001140	08-001141	08-001142	08-001143	08-001144	08-001145	08-001146	08-001147	08-001148	08-001149	08-001150	08-001151	08-001152	08-001153	08-001154	08-001155	08-001156	08-001157	08-001158	08-001159	08-001160	08-001161	08-001162	08-001163	08-001164	08-001165	08-001166	08-001167	08-001168	08-001169	08-001170	08-001171	08-001172	08-001173	08-001174	08-001175	08-001176	08-001177	08-001178	08-001179	08-001180	08-001181	08-001182	08-001183	08-001184	08-001185	08-001186	08-001187	08-001188	08-001189	08-001190	08-001191	08-001192	08-001193	08-001194	08-001195	08-001196	08-001197	08-001198	08-001199	08-001200	08-001201	08-001202	08-001203	08-001204	08-001205	08-001206	08-001207	08-001208	08-001209	08-001210	08-001211	08-001212	08-001213	08-001214	08-001215	08-001216	08-001217	08-001218	08-001219	08-001220	08-001221	08-001222	08-001223	08-001224	08-001225	08-001226	08-001227	08-001228	08-001229	08-001230	08-001231	08-001232	08-001233	08-001234	08-001235	08-001236	08-001237	08-001238	08-001239	08-001240	08-001241	08-001242	08-001243	08-001244	08-001245	08-001246	08-001247	08-001248	08-001249	08-001250	08-001251	08-001252	08-001253	08-001254	08-001255	08-001256	08-001257	08-001258	08-001259	08-001260	08-001261	08-001262	08-001263	08-001264	08-001265	08-001266	08-001267	08-001268	08-001269	08-001270	08-001271	08-001272	08-001273	08-001274	08-001275	08-001276	08-001277	08-001278	08-001279	08-001280	08-001281	08-001282	08-001283	08-001284	08-001285	08-001286	08-001287	08-001288	08-001289	08-001290	08-001291	08-001292	08-001293	08-001294	08-001295	08-001296	08-001297	08-001298	08-001299	08-001300	08-001301	08-001302	08-001303	08-001304	08-001305	08-001306	08-001307	08-001308	08-001309	08-001310	08-001311	08-001312	08-001313	08-001314	08-001315	08-001316	08-001317	08-001318	08-001319	08-001320	08-001321	08-001322	08-001323	08-001324	08-001325	08-001326	08-001327	08-001328	08-001329	08-001330	08-001331	08-001332	08-001333	08-001334	08-001335	08-001336	08-001337	08-001338	08-001339	08-001340	08-001341	08-001342	08-001343	08-001344	08-001345	08-001346	08-001347	08-001348	08-001349	08-001350	08-001351	08-001352	08-001353	08-001354	08-001355	08-001356	08-001357	08-001358	08-001359	08-001360	08-001361	08-001362	08-001363	08-001364	08-001365	08-001366	08-001367	08-001368	08-001369	08-001370	08-001371	08-001372	08-001373	08-001374	08-001375	08-001376	08-001377	08-001378	08-001379	08-001380	08-001381	08-001382	08-001383	08-001384	08-001385	08-001386	08-001387	08-001388	08-001389	08-001390	08-001391	08-001392	08-001393	08-001394	08-001395	08-001396	08-001397	08-001398	08-001399	08-001400
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Quantidades de armadura, por diametro

Nota: Os valores e Seções são indicadas em metros.

BALDRAME

TIPO DE BLOCO	REPRESENTAÇÃO	COMPONENTES (m)	RESE (KG)
CA-30	Ø25	100,23	4,8
CA-30	Ø20	100,23	4,8
CA-30	Ø12,5	111,44	1,50
Total		211,90	10,9

PLATANDA

TIPO DE BLOCO	REPRESENTAÇÃO	COMPONENTES (m)	RESE (KG)
CA-30	Ø25	100,23	4,8
CA-30	Ø20	100,23	4,8
CA-30	Ø12,5	111,44	1,50
Total		211,90	10,9

COBERTURA

TIPO DE BLOCO	REPRESENTAÇÃO	COMPONENTES (m)	RESE (KG)
CA-30	Ø25	100,23	4,8
CA-30	Ø20	100,23	4,8
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Total

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Total		211,90	10,9

PROJETO ESTRUTURAL

IMAGENS 3D DA ESTRUTURA
RELAÇÃO TOTAL DE AÇO

ENGENHEIRO DA OBRERA
CÂMARA MUNICIPAL DE ARARAQUÁ

DATA
MAIO DE 2023

DESENHO
DENNER COSTA

ESCALA
INDICADA

UNIDADE
(em) DIMENSIONADA

Nº PROJETO
08/08

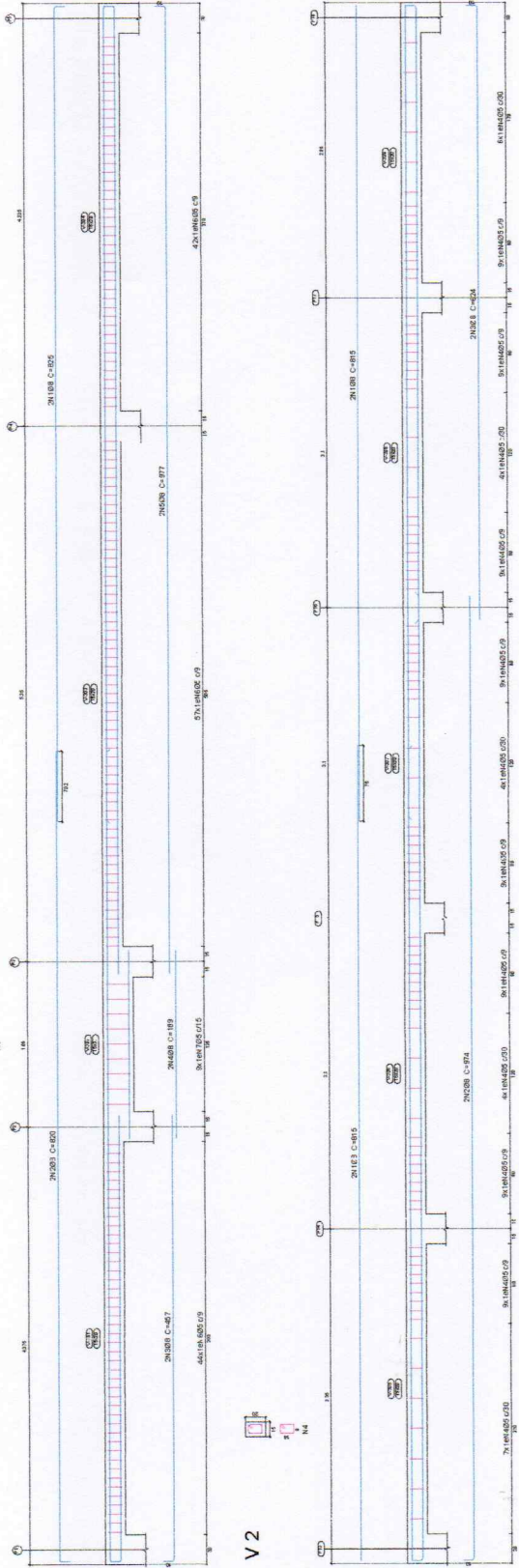
TOTAL DA CONSTRUÇÃO
VER ARQUITETURA - m²

QUANTIDADE DE ÁREAS
ÁREA (m²)

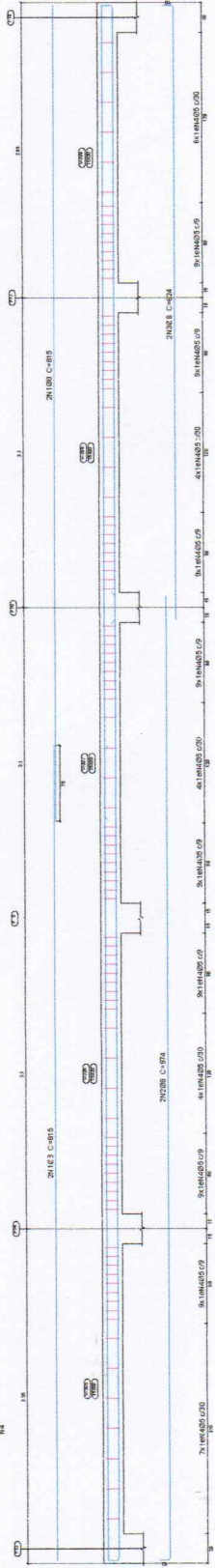
Ocupação (m²)

Fls. 193

V 1



V 2



PLATIBANDA
 Desenho de vigas
 Concreto C-25, em geral
 Apo das barras: CA-50 e CA-60
 Escala das barras: CA-50 e CA-60
 Escala vigas 1:25
 Escala aberturas 1:5

Resumo Aço	Comp. total	Percent (%)	Total
Desenho de vigas	(m)	(kg)	
CA-50	Ø8	129.9	56
CA-60	Ø8	136.3	24
Total			80

Elemento	Pos	Diam. Ø	Esquadra (cm)	Comp. (cm)	Comp. (kg)	Comp. (kg)
V1	1	Ø8	2	100	160	12.8
	2	Ø8	2	100	160	12.8
	3	Ø8	2	100	160	12.8
	4	Ø8	2	100	160	12.8
	5	Ø8	2	100	160	12.8
	6	Ø8	2	100	160	12.8
	7	Ø8	2	100	160	12.8
V2	1	Ø8	2	100	160	12.8
	2	Ø8	2	100	160	12.8
	3	Ø8	2	100	160	12.8
	4	Ø8	2	100	160	12.8



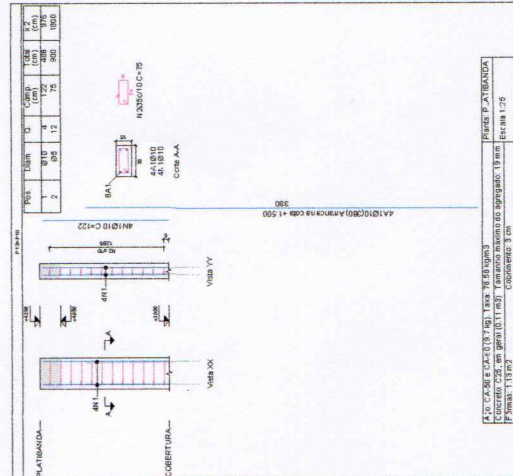
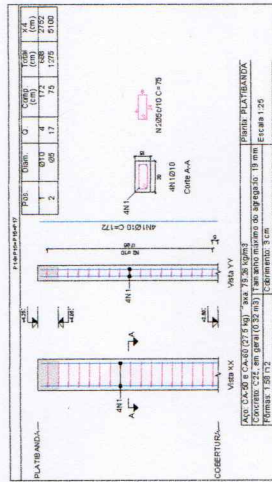
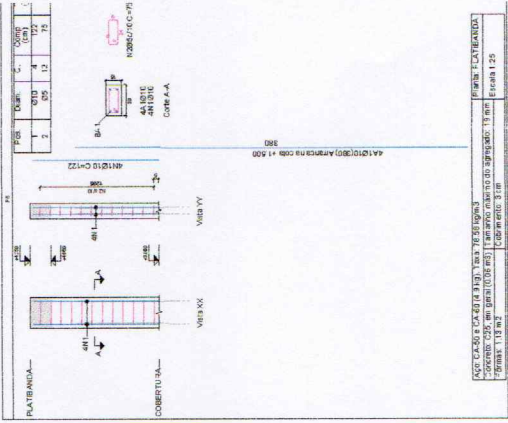
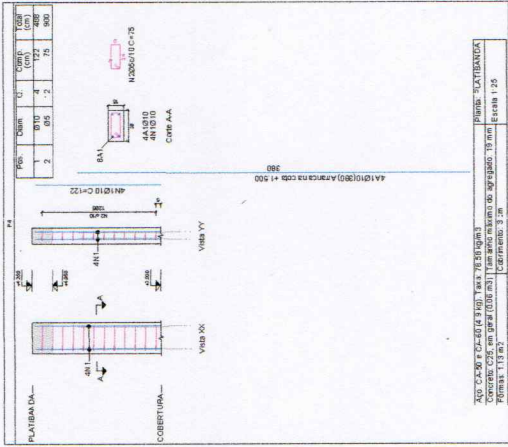
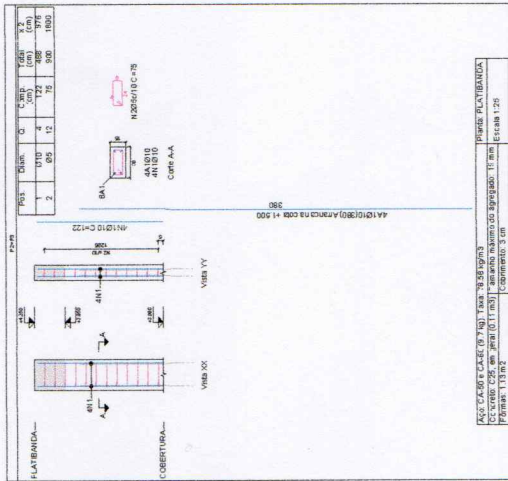
PLATIBANDA
 Escala: 1:50

Elemento	Comp. (cm)	Comp. (kg)
V1	1000	128
V2	1000	128
Total	2000	256

F.A. INSETA
 PROJETO ESTRUTURAL
 PLANTA DE DETALHE DAS VIGAS DE PLATIBANDA
 ANEXO 03 PROJETO
 ORÇ. P.15.081.070
 Rua: São Paulo, 100 - Jd. Santa Helena
 Fone: (11) 5082-1000

ENGENHEIRO DA OBRA
CARRA MUNICIPAL DE ARAGUATO
 QUADRO DE ÁREAS
 ÁREA (m²) COBERTURA (m²)
 TOTAL DA CONSTRUÇÃO VER ARQUITETURA - INT
 DATA: MAIO DE 2023
 DESENHO: DENNER COSTA
 UNIDADE: (cm) (centímetros)
 Nº PROJETO: 07/28
 VER ARQUITETURA - INT

Fls. 203



Resumo	Área Comp.	Área Total	Peso +10%	Total
Plates	61,7	42	42	42
CA-50/910	114,0	20	20	20
CA-50/95		20	20	20
TOTAL				82



PROJETO ESTRUTURAL
 DETALHES DOS PILARES DE PLATIBANDA

ENDEREÇO DA OBRA:
CÂMARA MUNICIPAL DE ARAGUATO

QUADRO DE ÁREAS

TOTAL DA CONSTRUÇÃO: VER ARQUITETURA - .IT

QUADRO DE ÁREAS	ÁREA (m²)	Ocupação (%)

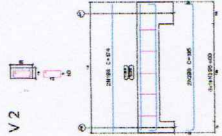
DATA: **MAIO DE 2023**

DESENHO: **DENNER COSTA**

UNIDADE: **centímetro**

INDICAÇÃO: **08/08**

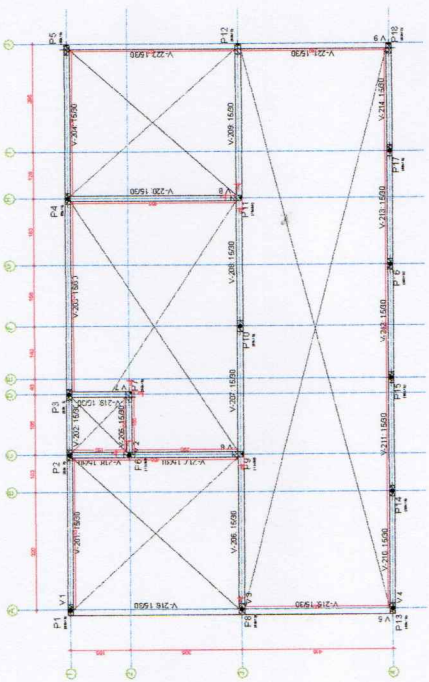
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V2

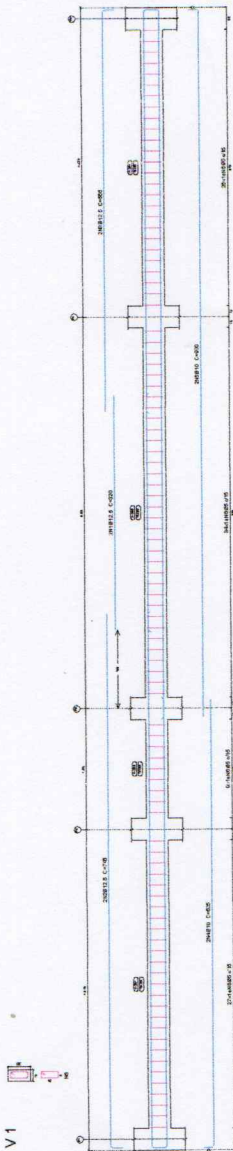


V1

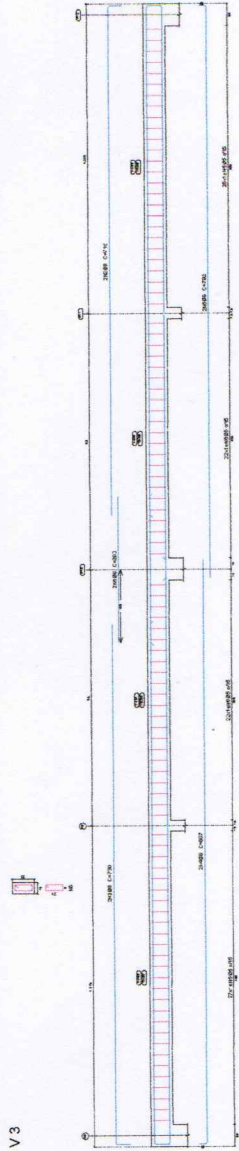


FERRAMENTAS
VERBOSAS

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V3

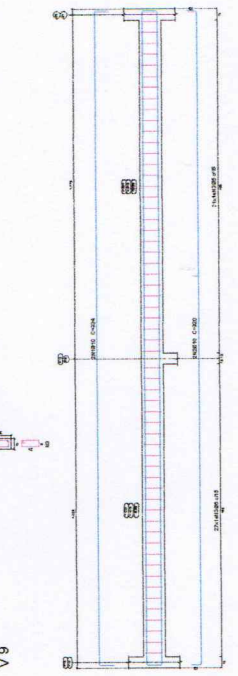


V4



V5

V9



V6



V7



V8

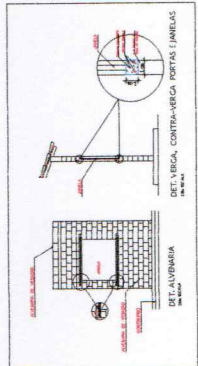


COBERTURA	
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COBERTURA	
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96.0	96.0
97.0	97.0
98.0	98.0
99.0	99.0
100.0	100.0

Elemento	Pos	Dim (cm)	Espessura (cm)	Vol (m³)	Peso (kg)	Peso (kg)	Vol (m³)	Peso (kg)
V1	1	1000	2000	100	1000	1000	100	1000
V2	1	1000	2000	100	1000	1000	100	1000
V3	1	1000	2000	100	1000	1000	100	1000
V4	1	1000	2000	100	1000	1000	100	1000
V5	1	1000	2000	100	1000	1000	100	1000
V6	1	1000	2000	100	1000	1000	100	1000
V7	1	1000	2000	100	1000	1000	100	1000
V8	1	1000	2000	100	1000	1000	100	1000
V9	1	1000	2000	100	1000	1000	100	1000
TOTAL								

Elemento	Pos	Dim (cm)	Espessura (cm)	Vol (m³)	Peso (kg)	Peso (kg)	Vol (m³)	Peso (kg)
V1	1	1000	2000	100	1000	1000	100	1000
V2	1	1000	2000	100	1000	1000	100	1000
V3	1	1000	2000	100	1000	1000	100	1000
V4	1	1000	2000	100	1000	1000	100	1000
V5	1	1000	2000	100	1000	1000	100	1000
V6	1	1000	2000	100	1000	1000	100	1000
V7	1	1000	2000	100	1000	1000	100	1000
V8	1	1000	2000	100	1000	1000	100	1000
V9	1	1000	2000	100	1000	1000	100	1000
TOTAL								



F.O.A.

PROJETO ESTRUTURAL

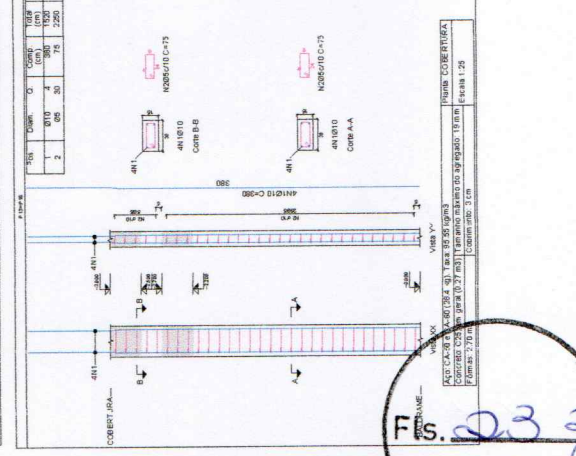
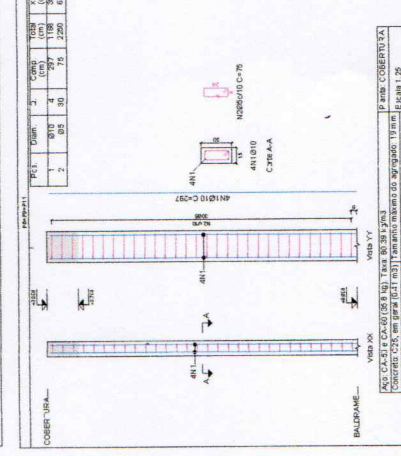
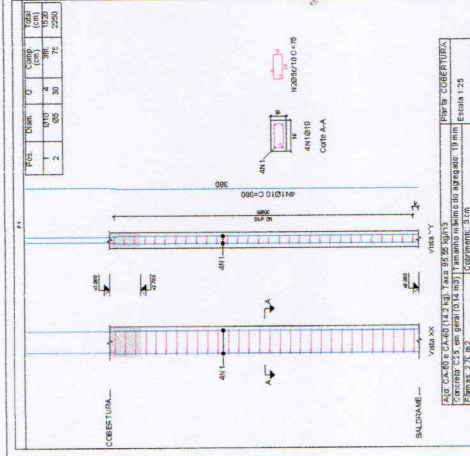
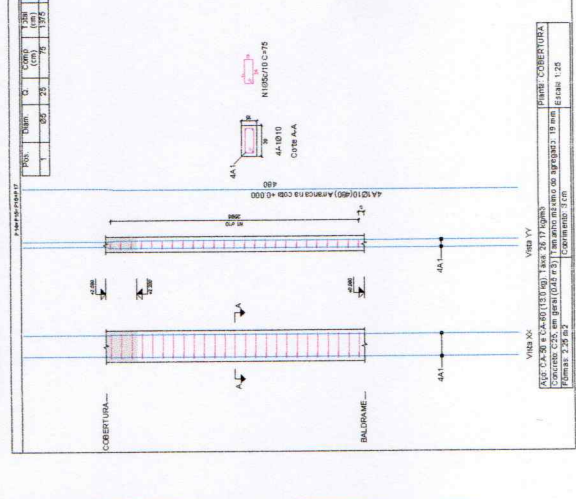
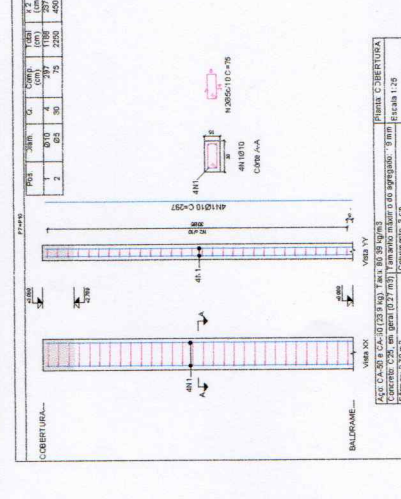
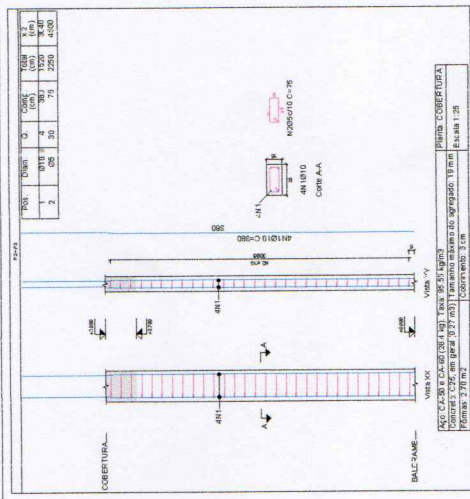
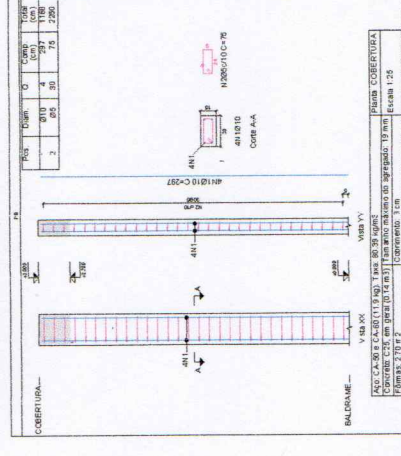
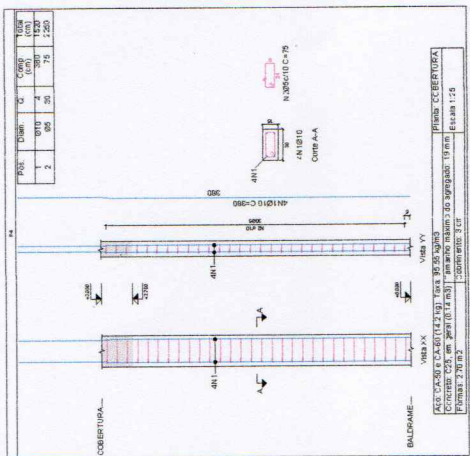
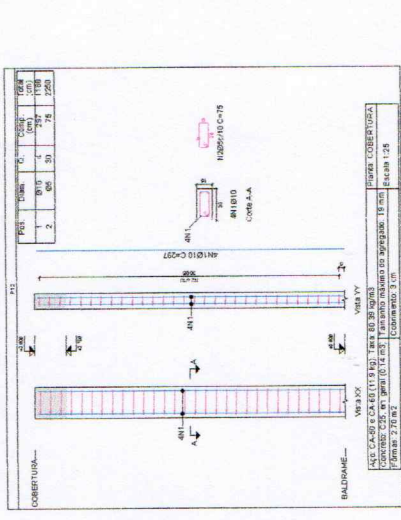
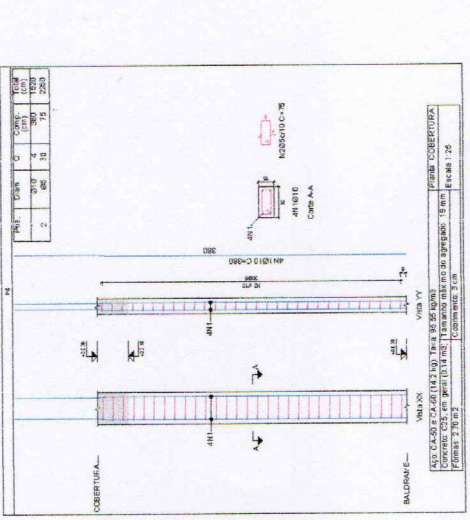
PLANTA DE FORMAS E COBERTURA
DETALHE DAS VIGAS E CONTRA-VIGIAS

UNIDADE DE MEDIDA: m^3 / m^2 / m / kg / cm / mm

TOTAL DA QUANTIDADE: m^3 / m^2 / m / kg / cm / mm


DET. AVISARIA
DET. VIGIA, CONTRA-VIGIA, PORTAS E JANELAS

FLS. 22



PROJETO ESTRUTURAL

DETALHES DOS PILARES
DETALHE DA JUNTA DE DILATAÇÃO



F. A.
ENGENHARIA

COORDENADOR: F. A. M. SILVA
PROJETADEOR: F. A. M. SILVA
REVISOR: F. A. M. SILVA

ENCOMENDADO POR:
CÂMARA MUNICIPAL DE ARARAQUÁ

LOCALIZAÇÃO:
CAMPUS DE ARARAQUÁ

QUANTIDADE	UNIDADE	ESCALA	UNIDADE	PROJETO
1	QUADRO DE ÁREAS	1:50	1 (cm²)	04/08
1	TOTAL DA CONSTRUÇÃO	1:50	1 (cm²)	04/08

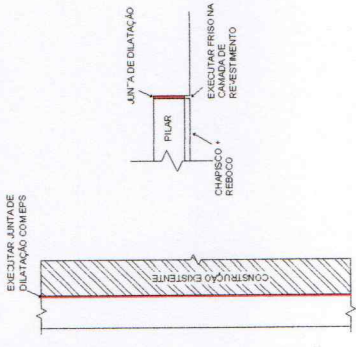
DATA: 2023
MAIO DE 2023

DESENHO: DENNER COSTA
REVISÃO: DENNER COSTA

VER ARQUITETURA - m

Resumo Apo	Comp. total	Peso-10%	Total
Desenho de Vigas	(m)	(kg)	(kg)
CA-50	Ø6	100,5	44
CA-50/B10	Ø10	114,3	77
CA-60/B5	Ø6	356,7	62
Total			303

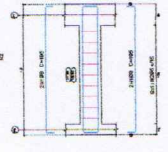
Resumo Apo	Comp. total	Peso-10%	Total
Platras	(m²)	(kg)	(kg)
CA-50/B10	189,6	128	128
CA-60/B5	380,0	67	67
Total			195



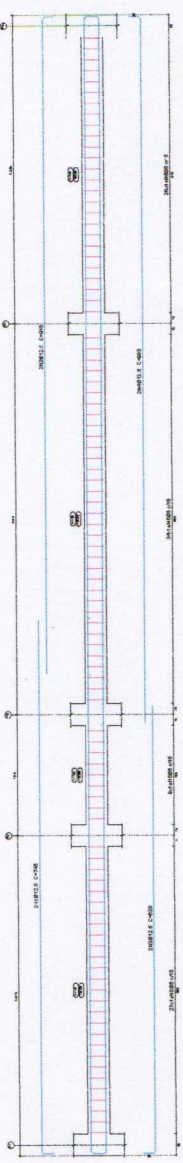
DETALHE JUNTA DE DILATAÇÃO SEM ESCALA

Folha 32 de 25

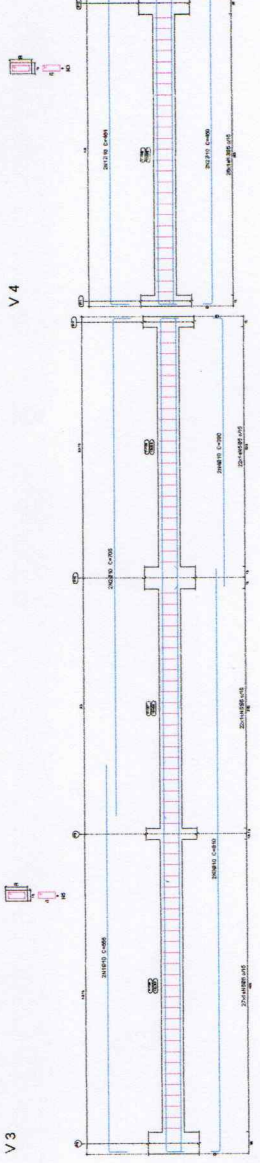
V 2



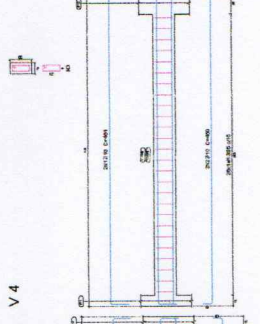
V 1



V 3



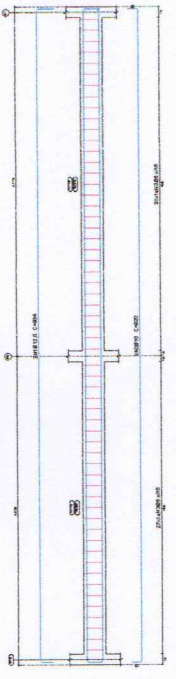
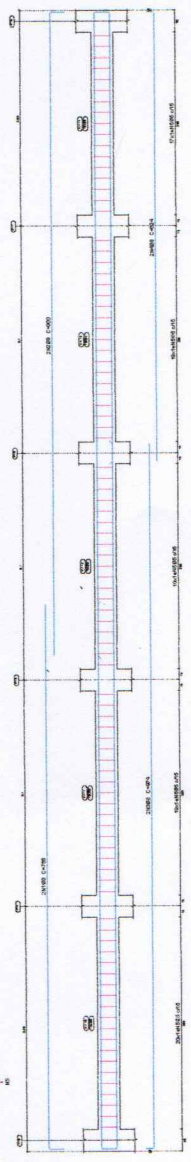
V 4



V 5



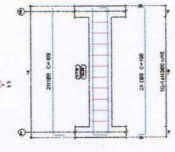
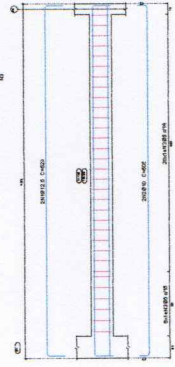
V 6



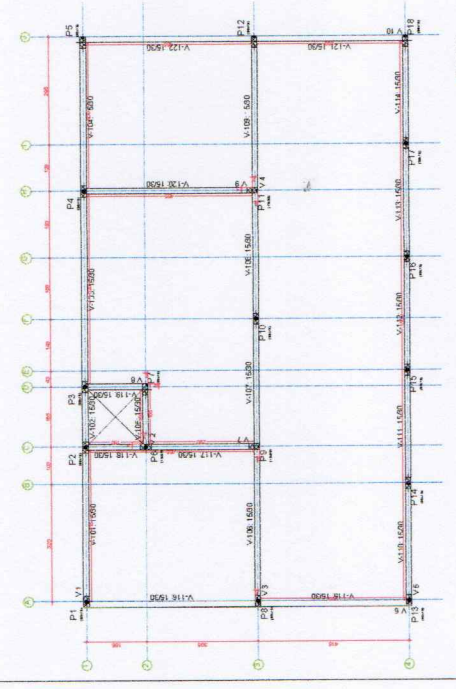
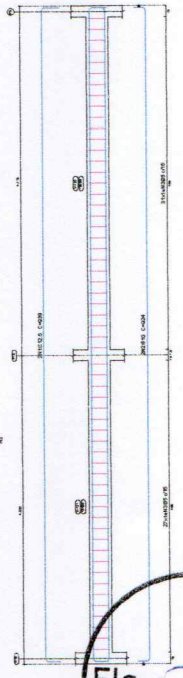
V 7

V 8

V 9



V 10



ESCALA: 1/20

Item	Descrição	Quantidade	Valor Unit.	Valor Total
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Item	Descrição	Quantidade	Valor Unit.	Valor Total
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RELEVANTE
 Comp. total: 1195,5
 Comp. C.A. em geral: 1195,5
 Comp. C.A. em concreto: 1195,5
 Comp. C.A. em aço: 1195,5
 Comp. C.A. em madeira: 1195,5
 Comp. C.A. em vidro: 1195,5
 Comp. C.A. em outros: 1195,5

Elemento	Pos. (m)	Extensão (m)	Comp. total (m)	Comp. C.A. (m)	Comp. C.A. em geral (m)	Comp. C.A. em concreto (m)	Comp. C.A. em aço (m)	Comp. C.A. em madeira (m)	Comp. C.A. em vidro (m)	Comp. C.A. em outros (m)
V1	0,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
V2	1,00	1,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00	2,00
V3	2,00	1,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00	3,00
V4	3,00	1,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00	4,00
V5	4,00	1,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00	5,00
V6	5,00	1,00	6,00	6,00	6,00	6,00	6,00	6,00	6,00	6,00
V7	6,00	1,00	7,00	7,00	7,00	7,00	7,00	7,00	7,00	7,00
V8	7,00	1,00	8,00	8,00	8,00	8,00	8,00	8,00	8,00	8,00
V9	8,00	1,00	9,00	9,00	9,00	9,00	9,00	9,00	9,00	9,00
V10	9,00	1,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00	10,00
V11	10,00	1,00	11,00	11,00	11,00	11,00	11,00	11,00	11,00	11,00
V12	11,00	1,00	12,00	12,00	12,00	12,00	12,00	12,00	12,00	12,00
V13	12,00	1,00	13,00	13,00	13,00	13,00	13,00	13,00	13,00	13,00
V14	13,00	1,00	14,00	14,00	14,00	14,00	14,00	14,00	14,00	14,00
V15	14,00	1,00	15,00	15,00	15,00	15,00	15,00	15,00	15,00	15,00
V16	15,00	1,00	16,00	16,00	16,00	16,00	16,00	16,00	16,00	16,00
V17	16,00	1,00	17,00	17,00	17,00	17,00	17,00	17,00	17,00	17,00
V18	17,00	1,00	18,00	18,00	18,00	18,00	18,00	18,00	18,00	18,00
V19	18,00	1,00	19,00	19,00	19,00	19,00	19,00	19,00	19,00	19,00
V20	19,00	1,00	20,00	20,00	20,00	20,00	20,00	20,00	20,00	20,00
V21	20,00	1,00	21,00	21,00	21,00	21,00	21,00	21,00	21,00	21,00
V22	21,00	1,00	22,00	22,00	22,00	22,00	22,00	22,00	22,00	22,00
V23	22,00	1,00	23,00	23,00	23,00	23,00	23,00	23,00	23,00	23,00
V24	23,00	1,00	24,00	24,00	24,00	24,00	24,00	24,00	24,00	24,00
V25	24,00	1,00	25,00	25,00	25,00	25,00	25,00	25,00	25,00	25,00
V26	25,00	1,00	26,00	26,00	26,00	26,00	26,00	26,00	26,00	26,00
V27	26,00	1,00	27,00	27,00	27,00	27,00	27,00	27,00	27,00	27,00
V28	27,00	1,00	28,00	28,00	28,00	28,00	28,00	28,00	28,00	28,00
V29	28,00	1,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00	29,00
V30	29,00	1,00	30,00	30,00	30,00	30,00	30,00	30,00	30,00	30,00
V31	30,00	1,00	31,00	31,00	31,00	31,00	31,00	31,00	31,00	31,00
V32	31,00	1,00	32,00	32,00	32,00	32,00	32,00	32,00	32,00	32,00
V33	32,00	1,00	33,00	33,00	33,00	33,00	33,00	33,00	33,00	33,00
V34	33,00	1,00	34,00	34,00	34,00	34,00	34,00	34,00	34,00	34,00
V35	34,00	1,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00	35,00
V36	35,00	1,00	36,00	36,00	36,00	36,00	36,00	36,00	36,00	36,00
V37	36,00	1,00	37,00	37,00	37,00	37,00	37,00	37,00	37,00	37,00
V38	37,00	1,00	38,00	38,00	38,00	38,00	38,00	38,00	38,00	38,00
V39	38,00	1,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00	39,00
V40	39,00	1,00	40,00	40,00	40,00	40,00	40,00	40,00	40,00	40,00
V41	40,00	1,00	41,00	41,00	41,00	41,00	41,00	41,00	41,00	41,00
V42	41,00	1,00	42,00	42,0						

