ESTRUTURA= PILARES

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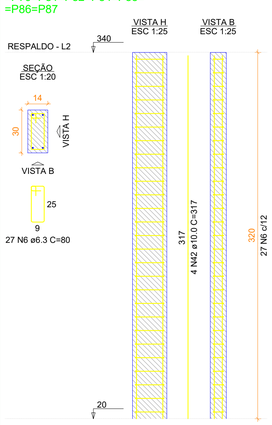
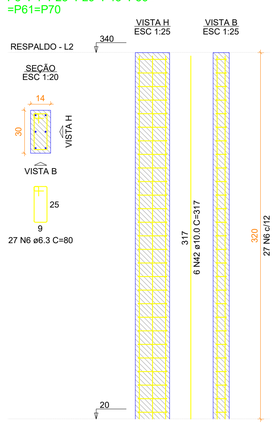
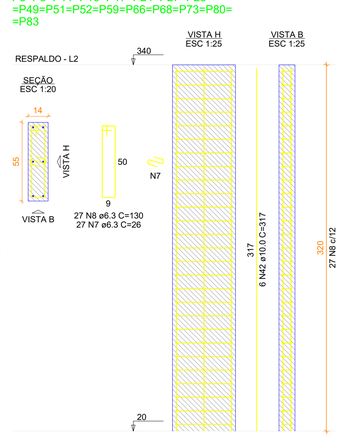
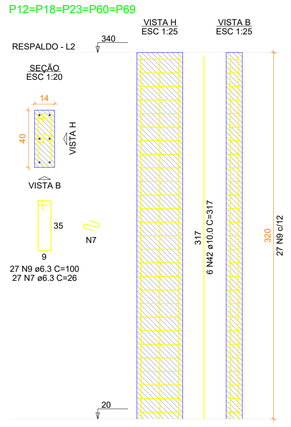
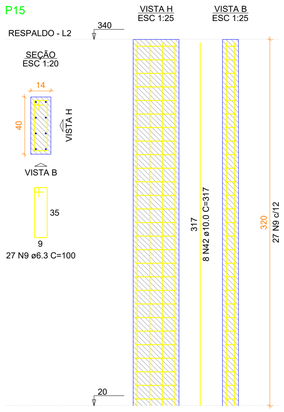
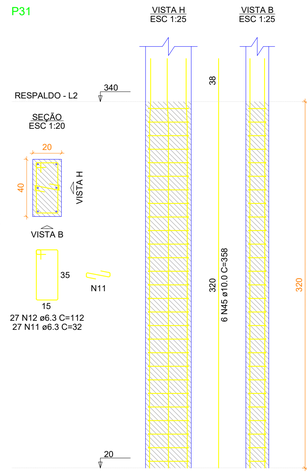


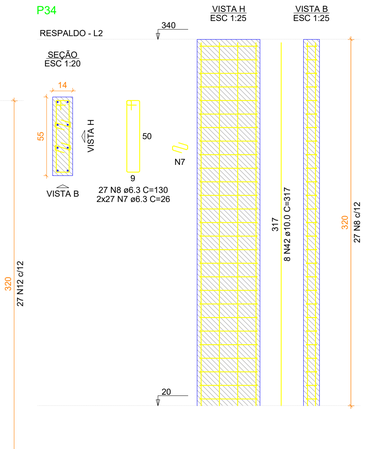


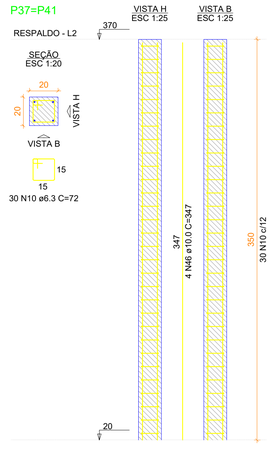


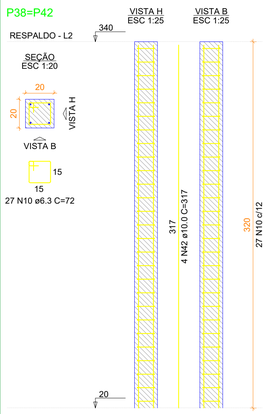


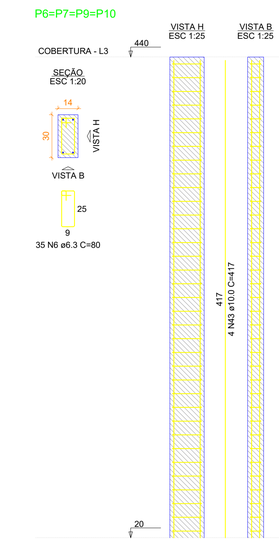


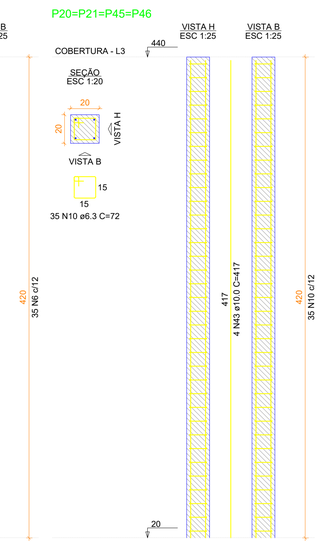


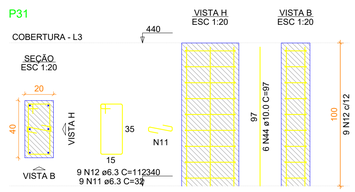


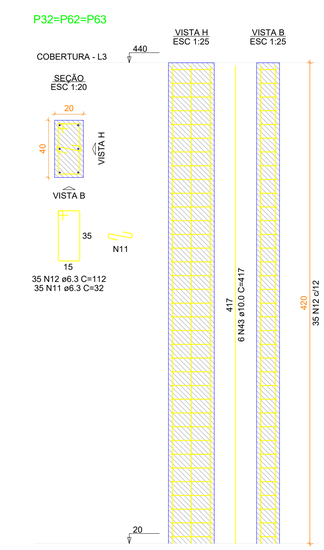


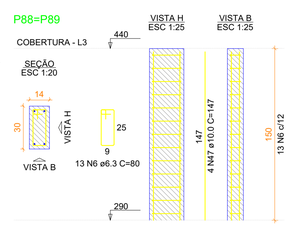




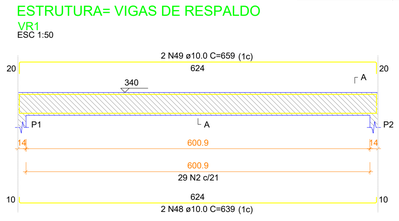


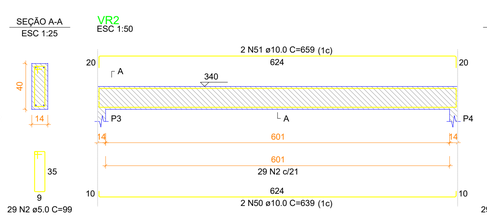


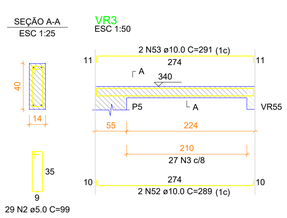


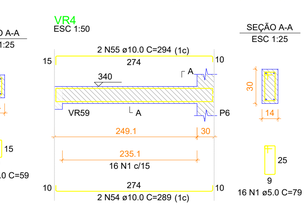


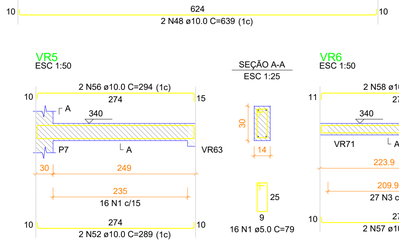
ESTRUTURA= VIGAS DE RESPALDO

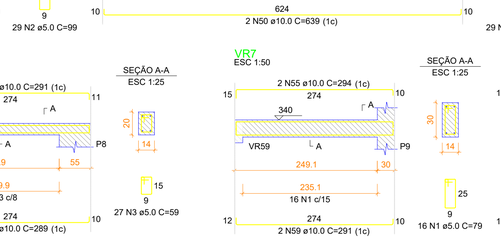


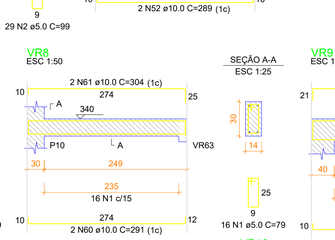


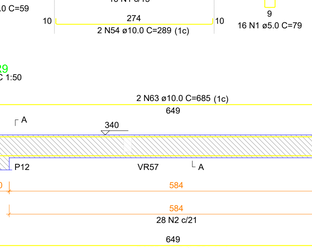


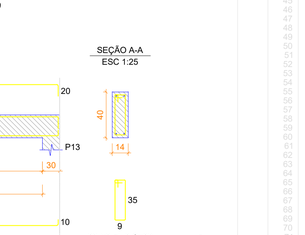


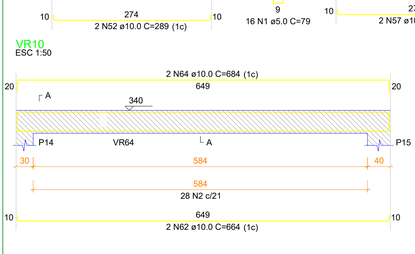


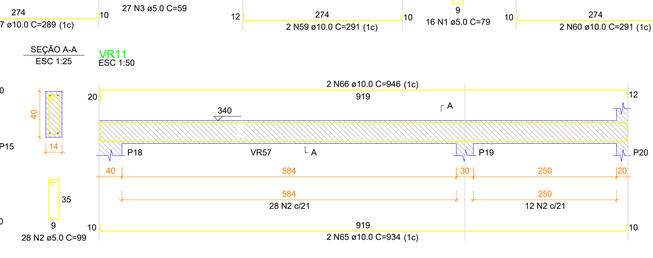


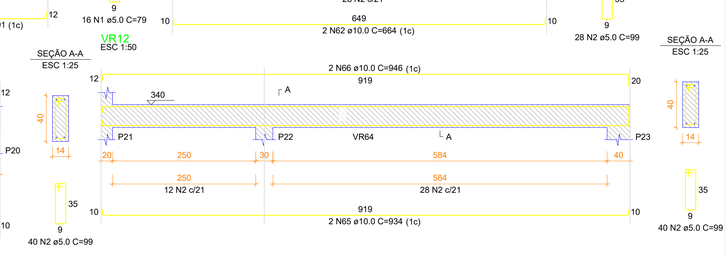


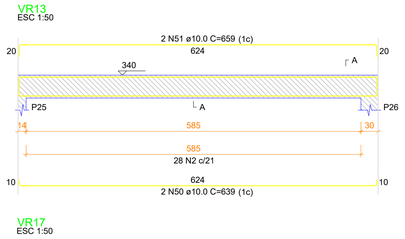


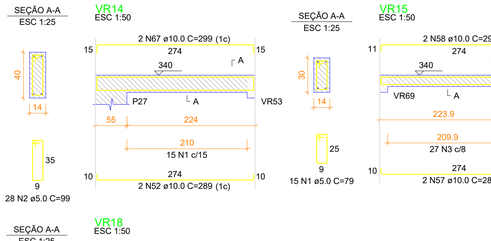


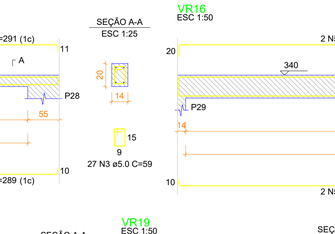


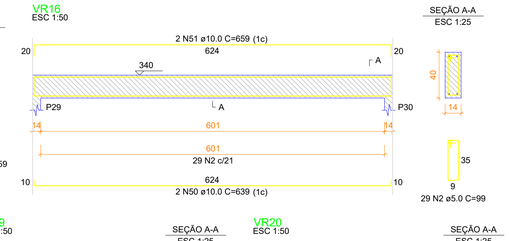


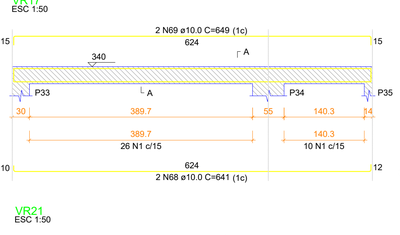


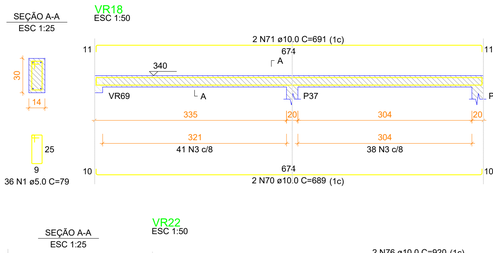


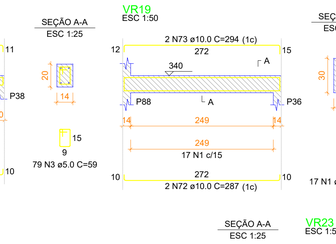


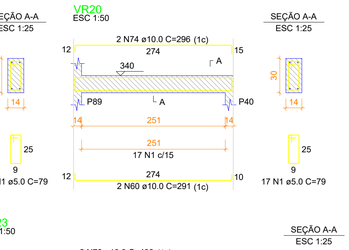


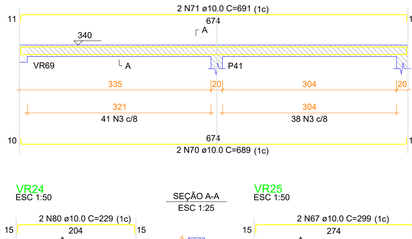


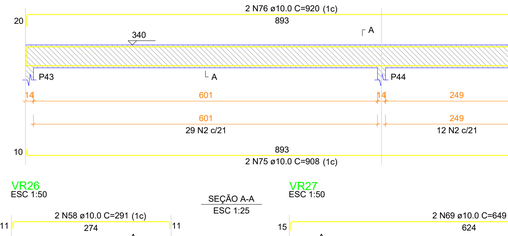


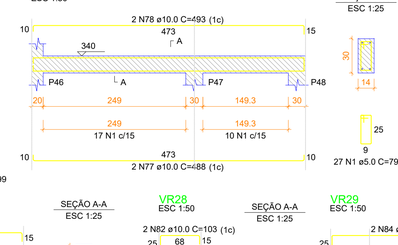












RELAÇÃO DO AÇO DA ESTRUTURA

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	1459	79	115261
	2	5.0	1242	98	122656
	3	5.0	1792	59	105726
	4	5.0	67	199	13333
	5	6.0	328	96	39932
CA50	6	6.3	1416	80	113280
	7	6.3	648	26	16848
	8	6.3	486	130	63180
	9	6.3	162	100	16200
	10	6.3	254	72	18288
	11	6.3	141	32	4512
	12	6.3	141	112	15792
	13	6.3	22	1196	26312
	14	6.3	10	765	7650
	15	6.3	4	835	2540
	16	6.3	4	corr	2416
	17	6.3	4	corr	945
	18	6.3	6	corr	4344
	19	6.3	6	corr	4170
	20	6.3	6	corr	4182
	21	6.3	12	1200	14400
	22	6.3	2	1163	14196
	23	6.3	2	74	148
	24	8.0	2	740	1480
	25	8.0	2	773	1546
	26	8.0	2	711	1422
	27	8.0	2	740	1480
	28	8.0	2	731	2812
	29	8.0	2	743	1486
	30	8.0	2	741	1482
	31	8.0	2	637	2548
	32	8.0	4	661	2644
	33	8.0	2	1094	2188
	34	8.0	2	331	662
	35	8.0	2	1198	2396
	36	8.0	4	1220	4880
	37	8.0	2	430	860
	38	8.0	2	1090	2180
	39	8.0	2	330	660
	40	8.0	2	1198	2396
	41	8.0	2	424	848
	42	10.0	2	356	1128
	43	10.0	50	417	20850
	44	10.0	6	97	582
	45	10.0	8	358	2148
	46	10.0	8	347	2776
	47	10.0	8	147	1176
	48	10.0	8	358	2856
	49	10.0	4	659	2636
	50	10.0	16	639	10224
	51	10.0	12	639	7668
	52	10.0	12	289	3468
	53	10.0	2	291	582
	54	10.0	2	294	588
	55	10.0	4	294	1176
	56	10.0	2	294	588
	57	10.0	4	291	1164
	58	10.0	2	291	582
	59	10.0	2	291	582
	60	10.0	2	304	608
	61	10.0	8	684	5312
	62	10.0	2	685	1370
	63	10.0	6	684	4104
	64	10.0	4	934	3736
	65	10.0	4	946	3784
	66	10.0	2	299	598
	67	10.0	4	641	2564
	68	10.0	2	649	1298
	69	10.0	4	680	2720
	70	10.0	4	691	2764
	71	10.0	2	287	574
	72	10.0	2	294	588
	73	10.0	2	908	1816
	74	10.0	4	920	3680
	75	10.0	2	920	1840
	76	10.0	2	493	986
	77	10.0	2	221	442
	78	10.0	2	88	176
	79	10.0	2	103	206
	80	10.0	2	300	600
	81	10.0	2	94	188
	82	10.0	2	89	178
	83	10.0	2	89	178
	84	10.0	2	334	668
	85	10.0	2	344	688
	86	10.0	2	308	616
	87	10.0	2	299	598
	88	10.0	16	554	8544
	89	10.0	2	550	1100
	90	10.0	26	299	7774
	91	10.0	8	301	2408
	92	10.0	8	881	3524
	93	10.0	8	881	2643
	94	10.0	3	1198	3594
	95	10.0	8	623	2492
	96	10.0	4	554	2216
	97	10.0	8	619	3714
	98	10.0	4	661	2644
	99	10.0	8	652	2608
	100	10.0	8	623	2492
	101	10.0	8	554	2216
	102	10.0	4	554	2216
	103	10.0	8	619	3714
	104	10.0	4	661	2644
	105	10.0	8	652	2608
	106	10.0	8	802	1604
	107	10.0	8	802	1604
	108	10.0	4	820	3280
	109	10.0	2	820	1640
	110	10.0	2	144	288
	111	10.0	2	154	308
	112	10.0	2	901	1802
	113	10.0	2	610	1220
	114	10.0	2	1125	2250
	115	10.0	4	626	2504
	116	10.0	2	1198	2396
	117	10.0	18	1220	21960
	118	10.0	2	266	532
	119	10.0	2	354	708
	120	10.0	2	354	708
	121	10.0	4	794	3176
	122	10.0	8	676	4056
	123	10.0	8	676	4056
	124	10.0	2	1090	2180
	125	10.0	2	331	662
	126	10.0	2	1198	2396
	127	10.0	2	1155	2310
	128	10.0	2	1123	2246
	129	10.0	2	828	1656
	130	10.0	2	1198	2396
	131	10.0	2	1081	2162
	132	10.0	2	180	372
	133	10.0	2	1141	2282
	134	10.0	2	1075	2150
	135	10.0	2	235	470
	136	10.0	2	201	402
	137	10.0	2	289	578
	138	10.0	2	299	598
	139	10.0	2	559	1118
	140	10.0	2	629	1258
	141	10.0	2	996	1992
	142	10.0	2	1198	2396
	143	10.0	2	536	1072
	144	10.0	2	550	1100
	145	10.0	2	1198	2396
	146	10.0	2	429	858
	147	10.0	2	421	842
	148	10.0	4	299	1196
	149	10.0	4	716	2864
	150	10.0	4	712	2848
	151	10.0	4	712	2848
	152	10.0	4	393	1572
	153	10.0	2	393	786
	154	10.0	2	393	786
	155	10.0	2	541	1082
	156	10.0	2	1198	2396
	157	10.0	2	1198	2396
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	178	10.0	2	1198	2396
	179	10.0	2	1198	2396
	180	10.0	2	1198	2396
	181	10.0	2	1198	2396
	182	10.0	2	1198	2396
	183	10.0	2	1198	2396
	184	10.0	2	1198	2396
	185	10.0	2	1198	2396
	186	10.0	2	1198	2396

RESUMO DO AÇO DA ESTRUTURA

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 0% (Barras)	UNIT	PESO + 0% (kg)
CA50	6.3	3294.6	275	12 m	805.2
	8.0	339.2	29	12 m	133.8
	10.0	4327.7	361	12 m	2668.2
CA60	5.0	3863.1	331	12 m	616.9
PESO TOTAL (kg)					
CA50	3608.2				
CA60	610.9				

Volume de concreto (C-25) = 53.52 m³
Área de forma = 949.27 m²

NOTAS: ESTRUTURA DE CONCRETO ARMADO

1 - A EXECUÇÃO DA ESTRUTURA DEVE SEGUIR AS PRESCRIÇÕES DA NBR 6118/2014;
2 - A DOBRA DAS ARMADURAS DEVERÃO SEGUIR AS PRESCRIÇÕES DA NBR-6118/2014;
3 - A LOCAÇÃO DA ESTRUTURA DEVERÁ SER COMPATIBILIZADA COM AS MEDIDAS DO TERRENO E NÃO DEVE SER FEITA ACULUMANDO DIFERENÇAS;
4 - A EXECUÇÃO DA ESTRUTURA DEVERÁ INICIAR APÓS A COMPATIBILIZAÇÃO COM OS PROJETOS ARQUITETÔNICOS E COMPLEMENTARES;
5 - AS FORMAS NÃO PODERÃO APRESENTAR DEFORMAÇÕES EXCESSIVAS;
6 - A CURA DEVERÁ SER FEITA DURANTE OS SETE PRIMEIROS DIAS A PARTIR DO LANÇAMENTO DO CONCRETO, DEVENDO SER RIGOROSAMENTE INSPECIONADA;
7 - QUALQUER ALTERAÇÃO DE RESISTÊNCIA OU DIMENSÕES DEVERÃO SER COMUNICADAS AO PROJETISTA;
8 - O CONCRETO DEVERÁ SER DOSADO SEGUINDO COMO BASE SUA RESISTÊNCIA AOS 28 DIAS (Fck);
9 - CASO SEJA NECESSÁRIO EMENDA DE BARRA NÃO ESPECIFICADA NESTE PROJETO, ESTA DEVERÁ SER FEITA CONFORME AS ESPECIFICAÇÕES DO ITEM 9 DA NBR-6118/2014;
10 - EM TODOS OS VÃOS DE PORTAS, JANELAS E VITRÔS DEVERÃO SER EXECUTADAS VERGAS E CONTRAVERGAS;

Projeto
ESTRUTURAL
INSTITUCIONAL

Data: FEV./2020

Revisões: 1

Especificações
PROJETO PARA CONSTRUÇÃO DE UNIDADE DE EDUCAÇÃO INFANTIL MUNICIPAL.

ENDEREÇO: RUA C7, PRAÇA SE-2B, SETOR NOVO, CEP: 78.590-000, MUNICÍPIO DE PARANAÍTA - MT.

Assunto
ESTRUTURA= PILARES, VIGAS DE RESPALDO E RELAÇÃO DO AÇO.

Prancha: 09/16

Cliente
MUNICÍPIO DE PARANAÍTA
CNPJ: 03.239.043/0001-12

Áreas
VER PROJETO ARQUITETÔNICO (UNIDADE ESCOLAR).

MUNICÍPIO DE PARANAÍTA
CNPJ: 03.239.043/0001-12

Localização Esquemática
VER PROJETO ARQUITETÔNICO

Responsáveis Técnicos pela Elaboração e Execução dos Projetos

ALEX OSCAR DE SOUSA
Engenheiro Civil
CREA/PR-141259/D

Empresa: A O DE SOUSA EIRELI - ME
CNPJ: 17.782.272/0001-86
TELEFONE: (66) 3541-4607

Autenticações

OBS: NÃO É PERMITIDO ALTERAR OU MODIFICAR ESTE PROJETO SEM AUTORIZAÇÃO DO AUTOR, LEI DE REGULAMENTO DIREITO AUTORAL N.º 6988/73