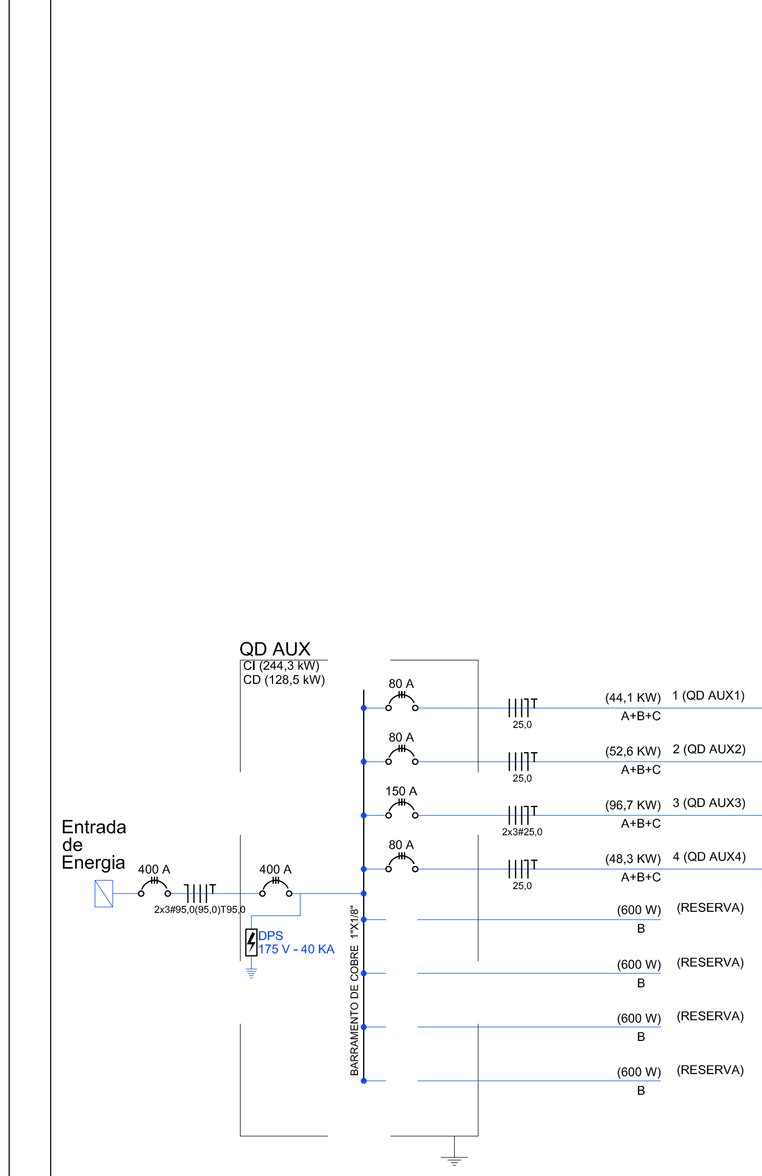

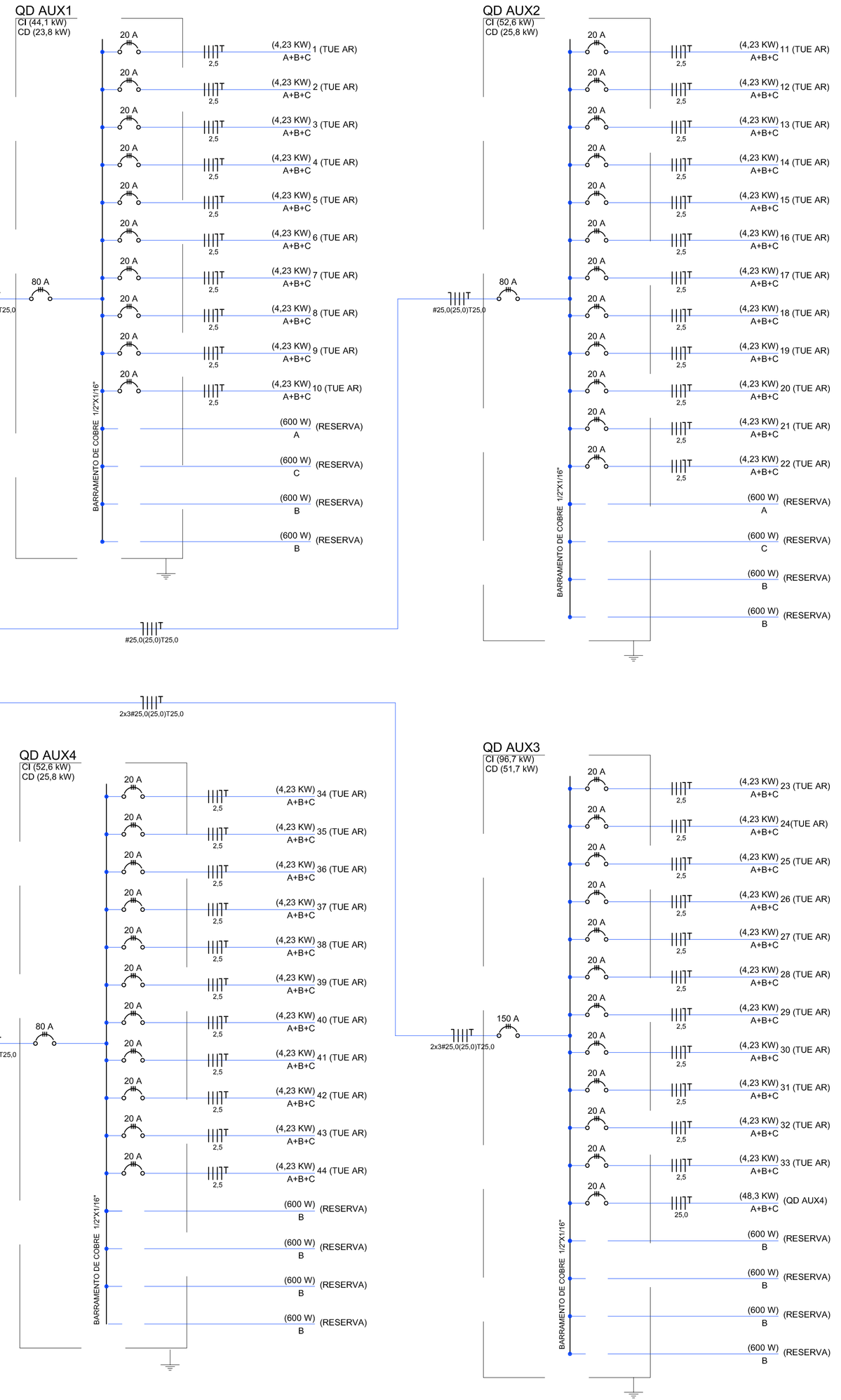

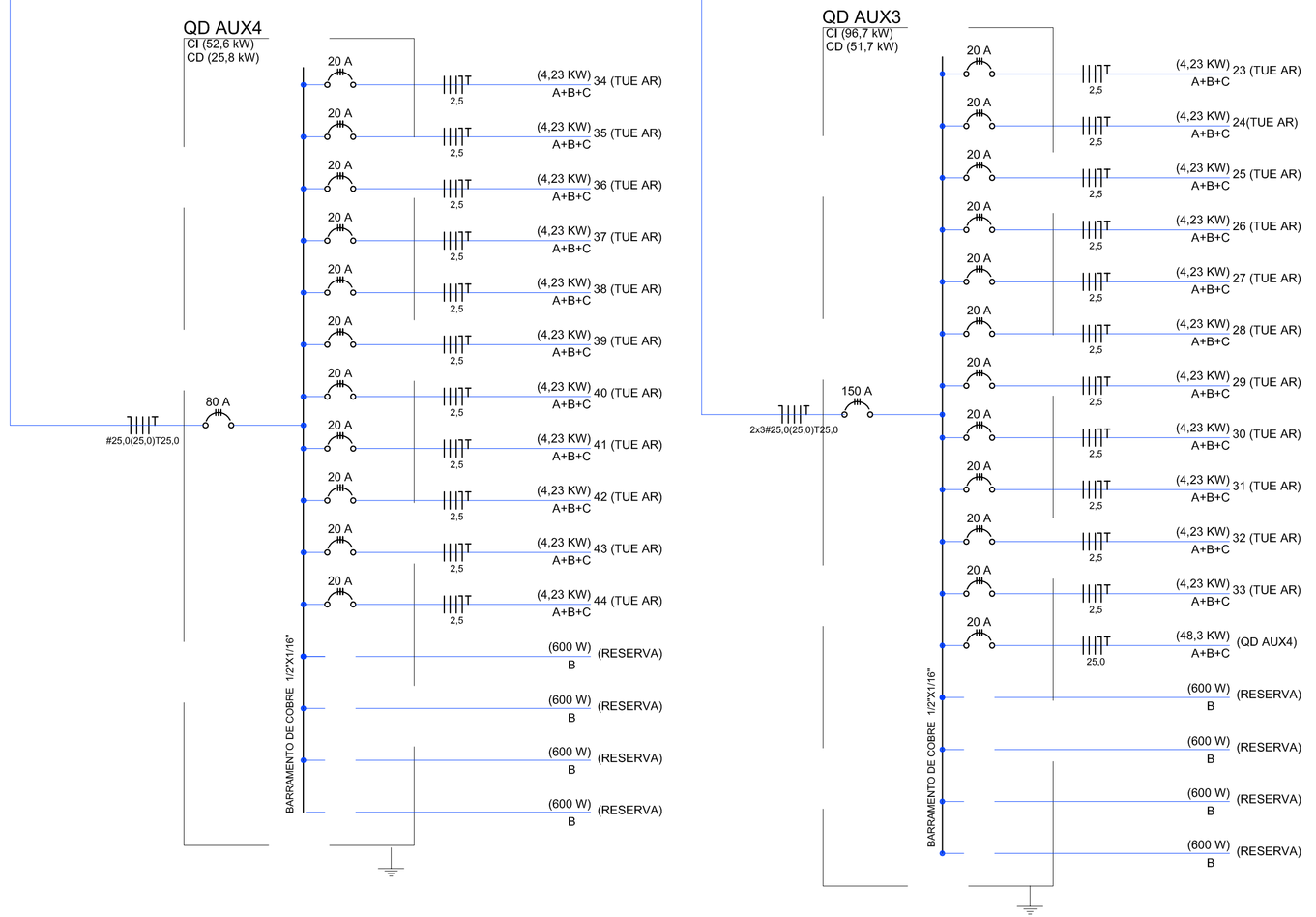

QD AUX			P. Ativa	P. Aparente	P.Reativa	FP	Fd	Fases			Condutor	Disjuntor	Corrente			Comp.	dV%	Demanda
Número Circuito	Descrição	Tensão	(Watts)	S (VA)	Q (VAr)			R	S	T	mm²		R	S	T	metros		VA
1	QD AUX1	220	44150	51641.18	27361.71	0.85	0.48	29970.59	29970.59	29970.59	#25,0(25,0)T25,0	Tr 80 A	73,77		83.00	2.85	2.85	23892.84
2	QD AUX2	220	52620	61788.24	32587.06	0.85	0.42	30894.12	30894.12	30894.12	#25,0(25,0)T25,0	Tr 80 A	79,97		17.50	7.93	7.93	25951.08
3	QD AUX3	220	96770	113611.76	59924.79	0.85	0.46	56805.88	56805.88	56805.88	2x3#25,0(25,0)T25,0	Tr 150 A	161,02		18.50	16.88	16.88	52081.41
4	QD AUX4	220	48385	56805.88	29762.39	0.85	0.46	28402.94	28402.94	28402.94	#25,0(25,0)T25,0	Tr 80 A	80,51		9.00	4.11	4.11	26130.71
5	Reserva	127	600	666.67	290.59	0.90	0.10		666.67				0.00	5.83	0.00		0.00	66.67
6	Reserva	127	300	333.33	145.30	0.90	0.20		333.33				0.00	2.92	0.00		0.00	66.67
7	Reserva	127	600	666.67	290.59	0.90	0.10		666.67				0.00	5.83	0.00		0.00	66.67
8	Reserva	127	600	666.67	290.59	0.90	0.10		666.67				0.00	5.83	0.00		0.00	66.67
QD AUX		220	244325	266813.73	150224.52	0.85	0.45	142073.53	141742.20	142073.53	2x3#95,0(95,0)T95,0	Tr 400A	366,68		36.00	1.62	1.62	128502.78

QD AUX1			P. Ativa	P. Aparente	P.Reativa	FP	Fd	Fases			Condutor	Disjuntor	Corrente			Comp.	dV%	Demanda
Número Circuito	Descrição	Tensão	(Watts)	S (VA)	Q (VAr)			R	S	T	mm²		R	S	T	metros		VA
1	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		22.50	1.96	1.96	2491.18
2	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		20.50	1.79	1.79	2491.18
3	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		21.00	1.83	1.83	1992.94
4	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		25.00	2.18	2.18	2491.18
5	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		12.00	1.05	1.05	2491.18
6	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		11.00	0.96	0.96	1992.94
7	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		11.00	0.96	0.96	2491.18
8	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		13.50	1.18	1.18	2491.18
9	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		28.00	2.44	2.44	1992.94
10	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		25.00	2.18	2.18	2491.18
	Reserva	127	600	666.67	290.59	0.90	0.20		666.67				0.00	5.83	0.00		0.00	133.33
	Reserva	127	600	666.67	290.59	0.90	0.20		666.67				0.00	5.83	0.00		0.00	133.33
	Reserva	127	300	333.33	145.30	0.90	0.20	333.33					0.00	2.92	0.00		0.00	66.67
	Reserva	127	300	333.33	145.30	0.90	0.20	333.33					0.00	2.92	0.00		0.00	66.67
QD AUX1		220	44150	51823.53	27137.72	0.85	0.46	25578.43	25578.43	25578.43	#25,0(25,0)T25,0	Tr 80A		73,37		63.00	2.84	23817.06

QD AUX2			P. Ativa	P. Aparente	P.Reativa	FP	Fd	Fases			Condutor	Disjuntor	Corrente			Comp.	dV%	Demanda
Número Circuito	Descrição	Tensão	(Watts)	S (VA)	Q (VAr)			R	S	T	mm²		R	S	T	metros		VA
11	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		20.00	1.74	1.74	2491.18
12	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		18.50	1.44	1.44	1992.94
13	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		13.50	1.18	1.18	1992.94
14	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		11.50	1.00	1.00	2491.18
15	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		15.50	0.92	0.92	1992.94
16	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		13.50	1.18	1.18	1992.94
17	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		11.50	1.00	1.00	2491.18
18	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		13.50	1.18	1.18	2491.18
19	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		22.50	1.96	1.96	2491.18
20	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		18.00	1.66	1.66	1992.94
21	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		18.00	1.66	1.66	1992.94
22	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.30	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		21.00	1.83	1.83	1494.71
	Reserva	127	600	666.67	290.59	0.90	0.20		666.67				0.00	5.83	0.00		0.00	133.33
	Reserva	127	600	666.67	290.59	0.90	0.20		666.67				0.00	5.83	0.00		0.00	133.33
	Reserva	127	300	333.33	145.30	0.90	0.20	333.33					0.00	2.92	0.00		0.00	66.67
	Reserva	127	300	333.33	145.30	0.90	0.20	333.33					0.00	2.92	0.00		0.00	66.67
QD AUX2		220	52620	61788.24	32587.06	0.85	0.42	30990.78	30990.78	30990.78	#25,0(25,0)T25,0	Tr 80A		79,54		27.00	1.32	28,10.06

QD AUX4			P. Ativa	P. Aparente	P.Reativa	FP	Fd	Fases			Condutor	Disjuntor	Corrente			Comp.	dV%	Demanda
Número Circuito	Descrição	Tensão	(Watts)	S (VA)	Q (VAr)			R	S	T	mm²		R	S	T	metros		VA
34	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.60	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		24.00	2.09	2.09	2989.41
35	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		24.00	2.09	2.09	2491.18
36	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		27.50	2.40	2.40	1992.94
37	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.60	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		19.00	1.66	1.66	2989.41
38	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		19.00	1.31	1.31	2491.18
39	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		15.50	1.35	1.92	1992.94
40	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.60	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		19.00	1.66	1.66	2989.41
41	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		22.50	1.96	1.96	2491.18
42	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		19.00	1.66	1.66	1992.94
43	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.30	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		19.50	1.70	1.70	1494.71
44	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		22.00	1.92	1.92	1992.94
	Reserva	127	600	666.67	290.59	0.90	0.20		666.67				0.00	5.83	0.00		0.00	133.33
	Reserva	127	600	666.67	290.59	0.90	0.20		666.67				0.00	5.83	0.00		0.00	133.33
	Reserva	127	300	333.33	145.30	0.90	0.20		333.33				0.00	2.92	0.00		0.00	66.67
	Reserva	127	300	333.33	145.30	0.90	0.20		333.33				0.00	2.92	0.00		0.00	66.67
QD AUX4		220	48385	56805.88	29762.39	0.85	0.46	27402.94	28402.94	27402.94	#25,0(25,0)T25,0	Tr 80A	81,06			40.00	1.99	28308.24

QD AUX3			P. Ativa	P. Aparente	P.Reativa	FP	Fd	Fases			Condutor	Disjuntor	Corrente			Comp.	dV%	Demanda
Número Circuito	Descrição	Tensão	(Watts)	S (VA)	Q (VAr)			R	S	T	mm²		R	S	T	metros		VA
23	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		21.00	1.83	1.83	2491.18
24	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		18.00	1.66	1.66	1992.94
25	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		19.00	1.66	1.66	1992.94
26	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		22.50	1.96	1.96	2491.18
27	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		12.00	1.05	1.05	2491.18
28	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		8.00	0.70	1.92	1992.94
29	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.60	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		17.50	1.53	1.53	2989.41
30	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.50	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		13.50	1.18	1.18	2491.18
31	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		13.50	1.18	1.92	1992.94
32	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		17.00	1.48	1.92	1992.94
33	TUE - AR CONDICIONADO 48.0000 BTU/S	220	4235	4982.35	2624.62	0.85	0.40	2491.18	2491.18	2491.18	#2,5(2,5)T2,5	Tr 20 A	15,38		17.00	1.48	1.48	1992.94
QD AUX4	QUADRO DE DISTRIBUIÇÃO AUXILIAR 4	220	48385	56805.88	29762.39	0.85	0.46	28402.94	28402.94	28402.94	#25,0(25,0)T25,0	Tr 100A	80,51		40.00	1.98	2.60	28130.71
	Reserva	127	600	666.67	290.59	0.90	0.10		666.67				0.00	5.83	0.00		0.00	66.67
	Reserva	127	600	666.67	290.59	0.90	0.10		666.67				0.00	5.83	0.00		0.00	66.67
	Reserva	127	300	333.33	145.30	0.90	0.20		333.33				0.00	2.92	0.00		0.00	33.33
	Reserva	127	300	333.33	145.30	0.90	0.20		333.33				0.00	2.92	0.00		0.00	33.33
QD AUX3		220	96770	113611.76	59924.79	0.85	0.46	55805.88	57805.88	55805.88	2x3#25,0(25,0)T25,0	Tr 200A	159,42		55.10	2.60	3.17	51740.71

PROJETO ELÉTRICO

EM CASO DE DÚVIDAS CONSULTAR A DIVISÃO DE PROJETOS F. (41) 3888-4850

OBRA:
CONSTRUÇÃO BLOCO DIDÁTICO - CAMPUS LONDRINA
AV. DA LIBERDADE - LOTE 26-B1 - CARNASCIALLI - CEP: 86077-080

AUTOR(ES) DO PROJETO:
GERSON GUERNIERI CREA-PR 14776/D
.

RESPONSÁVEL PROJETO:
.

REFERÊNCIA:
DIAGRAMAS UNIFILARES

INSTITUTO FEDERAL PARANÁ

DATA: AGOSTO/2017 — PRANCHA: 02
DATA: INDICADA — 03
DESENHO: UTFPR
ARQUIVO: CLN_Ele_BlDid — PLOTAGEM: 31/08/2017

INSTITUTO FEDERAL DO PARANÁ - PROAD/DI

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