PROJETO DE INSTALAÇÃO ELÉTRICA - *CRECHE PROINFÂNCIA TIPO 01*

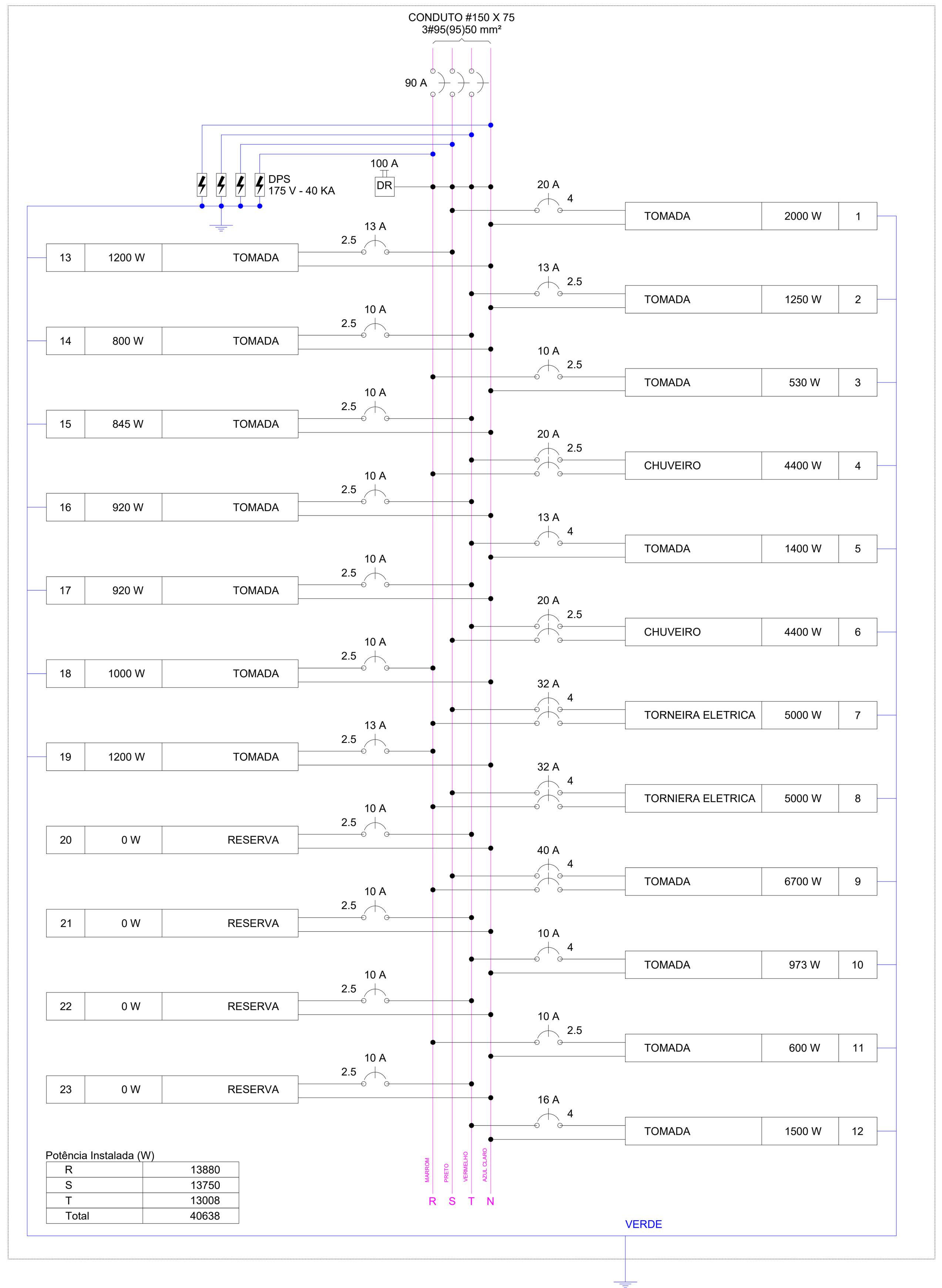
QUADRO DE CARGAS (QD5)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Tomadas (W) 100	200	245	373	400	530	600	800	920	1000	1250	1500	2000	4400	5000	6700	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
1	Tomada	F+N+T	B1	127 V													1				2500	2000	S		2000		1.00	0.38	19.7	4	42.0	20.0	3.28	5.80	Ok
2	Tomada	F+N+T	B1	127 V											1						1562	1250	T			1250	1.00	0.38	12.3	2.5	31.0	13.0	2.85	5.37	Ok
3	Tomada	F+N+T	B1	127 V						1											662	530	R	530			1.00	0.38	5.2	2.5	31.0	10.0	1.32	6.15	Ok
4	Chuveiro	F+F+T	B1	220 V														1			4400	4400	R+T	2200		2200	1.00	0.38	20.0	2.5	31.0	20.0	2.24	4.76	Ok
5	Tomada	F+N+T	B1	127 V	12	1															1611	1400	T			1400	1.00	0.38	33.4	4	42.0	13.0	1.36	3.88	Ok
6	Chuveiro	F+F+T	B1	220 V														1			4400	4400	S+T		2200	2200	1.00	0.38	20.0	2.5	31.0	20.0	2.64	5.16	Ok
7	Torneira eletrica	F+F+T	B1	220 V															1		6250	5000	R+S	2500	2500		1.00	0.38	28.4	4	42.0	32.0	1.90	6.74	Ok
8	Torniera eletrica	F+F+T	B1	220 V															1		6250	5000	R+S	2500	2500		1.00	0.38	28.4	4	42.0	32.0	1.83	6.67	Ok
9	Tomada	F+F+T	B1	220 V																1	8375	6700	R+S	3350	3350		1.00	0.38	38.1	4	42.0	40.0	2.38	4.90	Ok
10	Tomada	F+N+T	B1	127 V	2	2		1													1216	973	T			973	1.00	0.38	25.2	4	42.0	10.0	2.61	5.13	Ok
11	Tomada	F+N+T	B1	127 V	2				1												722	600	R	600			1.00	0.38	4.6	2.5	31.0	10.0	0.48	3.00	Ok
	ec								1												500	400	R	400				1.00	0.0	2.5	31.0				Ok
12	Tomada	F+N+T	B1	127 V												1					1875	1500	T			1500	1.00	0.38	14.8	4	42.0	16.0	2.62	5.14	Ok
13	Tomada	F+N+T	B1	127 V							2										1333	1200	S		1200		1.00	0.38	10.5	2.5	31.0	13.0	3.35	5.87	Ok
14	Tomada	F+N+T	B1	127 V								1									1000	800	T			800	1.00	0.38	7.9	2.5	31.0	10.0	2.08	6.91	Ok
15	Tomada	F+N+T	B1	127 V			1				1										973	845	T			845	1.00	0.38	7.7	2.5	31.0	10.0	1.89	6.73	Ok
16	Tomada	F+N+T	B1	127 V									1								1150	920	T			920	1.00	0.38	9.1	2.5	31.0	10.0	2.49	5.01	Ok
17	Tomada	F+N+T	B1	127 V									1								1150	920	T			920	1.00	0.38	12.9	2.5	31.0	10.0	2.57	5.09	Ok
18	Tomada	F+N+T	B1	127 V										1							1250	1000	R	1000			1.00	0.38	14.1	2.5	31.0	10.0	3.03	5.55	Ok
19	Tomada	F+N+T	B1	127 V							2										1333	1200	R	1200			1.00	0.38	10.5	2.5	31.0	13.0	2.81	5.32	Ok
20	Reserva	F+N	B1	127 V																	0	0	T				1.00	1.00	0.0	2.5	31.0	10.0		4.84	Ok
21	Reserva	F+N	B1	127 V																	0	0	T				1.00	1.00	0.0	2.5	31.0	10.0		4.84	Ok
22	Reserva	F+N	B1	127 V																	0	0	T				1.00	1.00	0.0	2.5	31.0	10.0		4.84	Ok
23	Reserva	F+N	B1	127 V																	0	0	T				1.00	1.00	0.0	2.5	31.0	10.0		4.84	Ok
TOTAL					16	3	1	1	1	1	5	1	2	1	1	1	1	2	2	1	48014	40638	R+S+T	13880	13750	13008									

QUADRO DE DEMANDA (QD5)

TIPO DE CARGA	POTÊNCIA INSTALADA (kVA)	FATOR DE DEMANDA (%)	DEMANDA (kVA)
ILUMINAÇÃO E TUG´S (ESCOLAS E SEMELHANTES)	12.00	100	12.00
	36.01	50	18.01
		TOTAL	30.01

QD5 (QUADRO DE DISTRIBUIÇÃO BLOCO A - COZINHA)

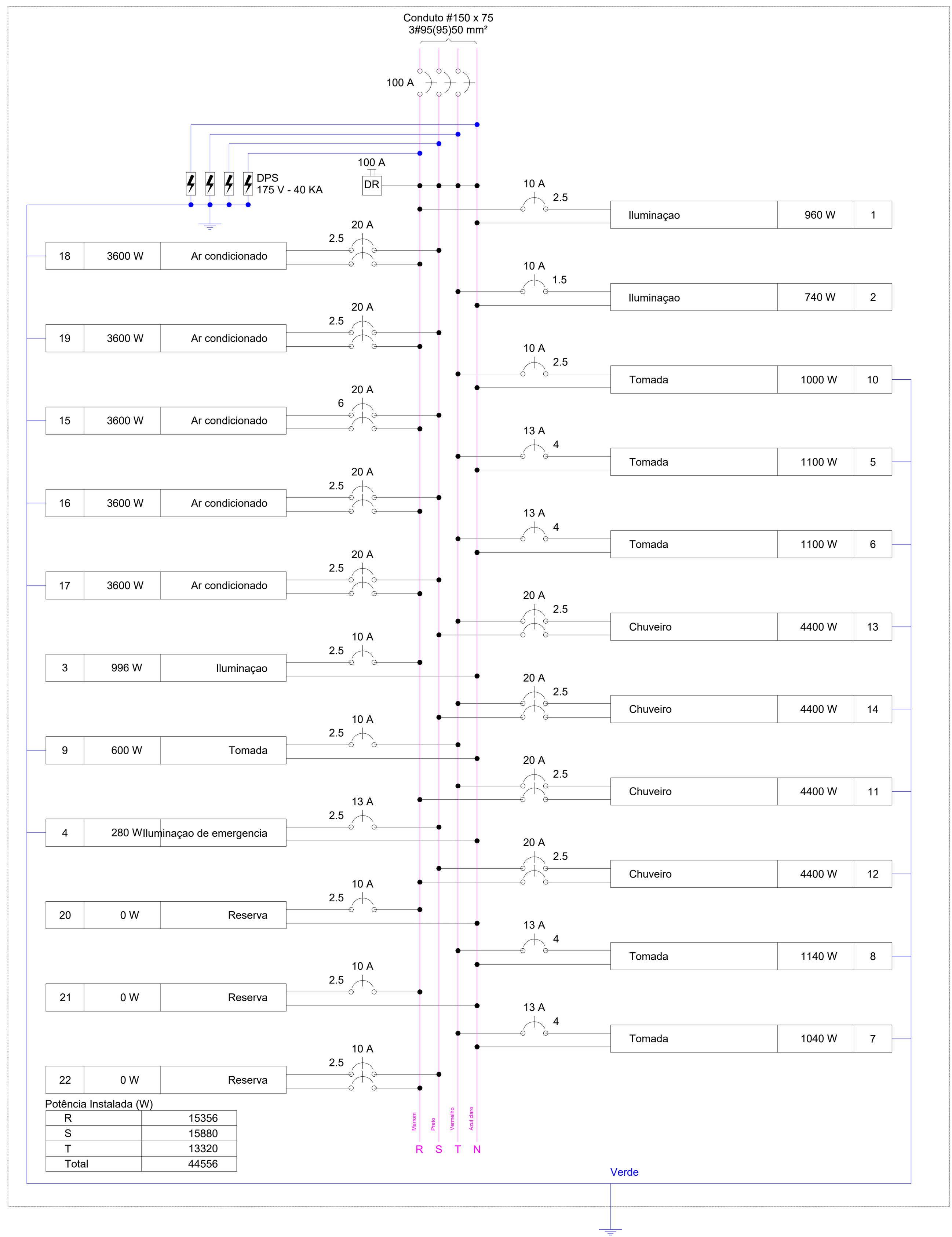


Quadro de Demanda (QD7)

Tipo de carga	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
Iluminação e TUG´s (Escolas e semelhantes)	12.00	100	12.00
	37.63	50	18.81
		TOTAL	30.81

Quadro de Cargas (QD7)

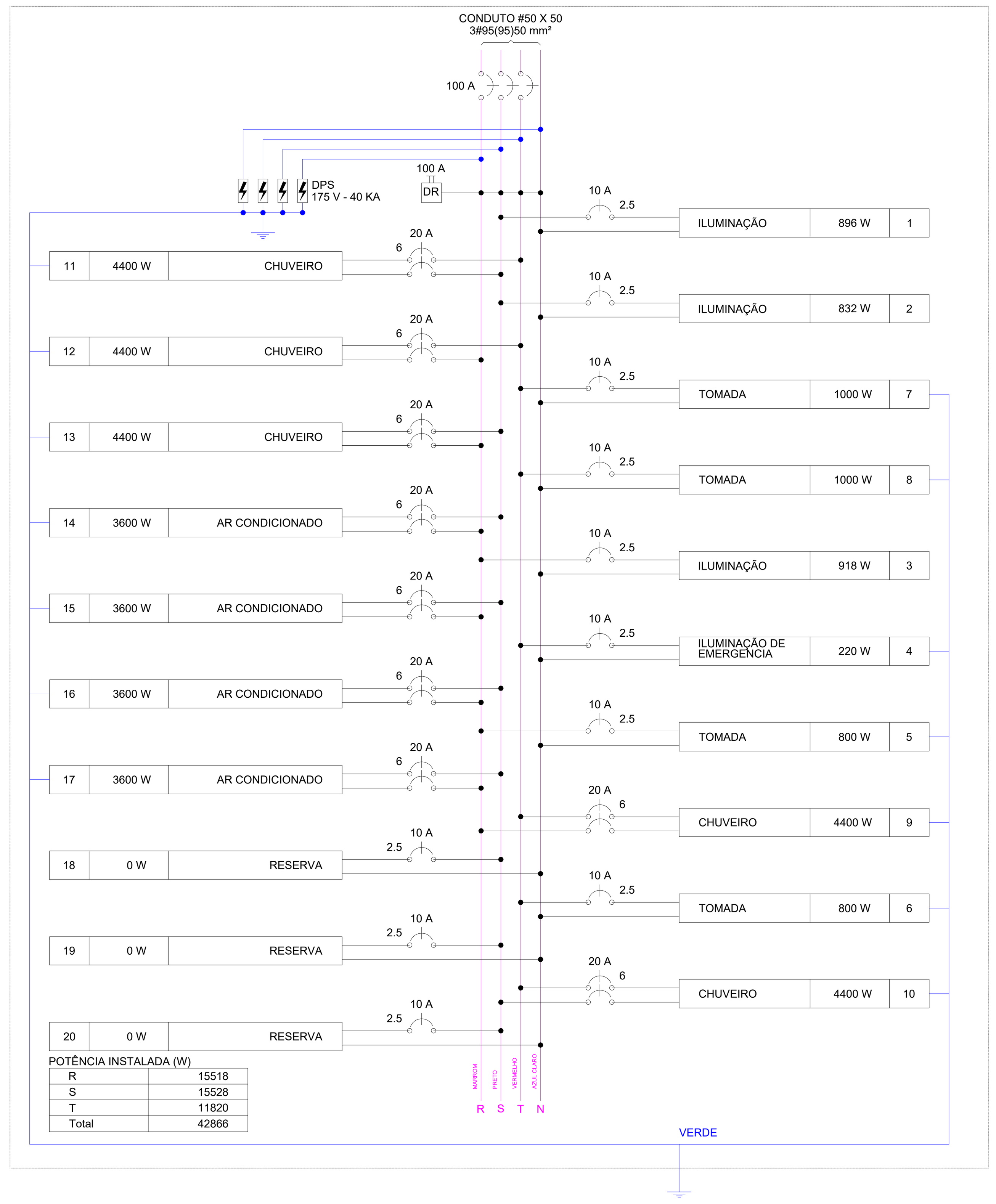
Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W) 18	32	Tomadas (W) 20	40	100	200	600	3600	4400	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
1	Iluminaçao	F+N	B1	127 V		30								1185	960	R	960			1.00	0.38	9.3	2.5	31.0	10.0		2.52	Ok
	au					12								474	384	R	384				0.65	3.7	2.5	31.0				Ok
	av					12								474	384	R	384				0.65	3.7	2.5	31.0				Ok
	ay					6								237	192	R	192				0.70	1.9	2.5	31.0				Ok
2	Iluminaçao	F+N	B1	127 V	2	22								915	740	T			740	1.00	0.38	7.2	1.5	23.0	10.0	2.99	6.81	Ok
	ba					12								474	384	T			384		0.70	3.7	1.5	23.0				Ok
	bb				2									46	36	T			36		0.70	0.4	1.5	23.0				Ok
	bc					4								158	128	T			128		0.70	1.2	1.5	23.0				Ok
	be					6								237	192	T			192		0.70	1.9	1.5	23.0				Ok
3	Iluminaçao	F+N	B1	127 V	2	30								1231	996	R	996			1.00	0.38	9.7	2.5	31.0	10.0	3.00	5.52	Ok
	bg					4								158	128	R	128				0.70	1.2	2.5	31.0				Ok
	bh				2									46	36	R	36				0.70	0.4	2.5	31.0				Ok
	bi					12								474	384	R	384				0.70	3.7	2.5	31.0				Ok
	bj					2								79	64	R	64				0.70	0.6	2.5	31.0				Ok
	bk					12								474	384	R	384				0.70	3.7	2.5	31.0				Ok
4	Iluminaçao de emergencia	F+N+T	B1	127 V			14							1400	280	S		280		1.00	0.38	11.0	2.5	31.0	13.0	1.95	5.76	Ok
5	Tomada	F+N+T	B1	127 V					7	2				1333	1100	T			1100	1.00	0.38	27.6	4	42.0	13.0	1.62	4.14	Ok
6	Tomada	F+N+T	B1	127 V					7	2				1333	1100	T			1100	1.00	0.38	27.6	4	42.0	13.0	1.43	3.95	Ok
7	Tomada	F+N+T	B1	127 V				1	6	2				1308	1040	T			1040	1.00	0.38	25.0	4	42.0	13.0	1.79	4.31	Ok
	ee							1						100	40	T			40		1.00	0.0	4	42.0				Ok
8	Tomada	F+N+T	B1	127 V				1	7	2				1419	1140	T			1140	1.00	0.38	27.3	4	42.0	13.0	1.85	4.37	Ok
	ef							1						100	40	T			40		1.00	0.0	4	42.0				Ok
9	Tomada	F+N+T	B1	127 V							1			667	600	T			600	1.00	0.38	5.2	2.5	31.0	10.0	0.91	4.72	Ok
10	Tomada	F+N+T	B1	127 V					10					1236	1000	T			1000	1.00	0.38	25.6	2.5	31.0	10.0	1.72	4.24	Ok
11	Chuveiro	F+F+T	B1	220 V									1	4400	4400	R+T	2200		2200	1.00	0.38	20.0	2.5	31.0	20.0	3.53	6.05	Ok
12	Chuveiro	F+F+T	B1	220 V									1	4400	4400	R+S	2200	2200		1.00	0.38	20.0	2.5	31.0	20.0	3.43	5.95	Ok
13	Chuveiro	F+F+T	B1	220 V									1	4400	4400	S+T		2200	2200	1.00	0.38	20.0	2.5	31.0	20.0	3.76	6.28	Ok
14	Chuveiro	F+F+T	B1	220 V									1	4400	4400	S+T		2200	2200	1.00	0.38	20.0	2.5	31.0	20.0	3.86	6.38	Ok
15	Ar condicionado	F+F+T	B1	220 V								1		4000	3600	R+S	1800	1800		1.00	0.38	47.8	6	54.0	20.0	0.98	3.50	Ok
16	Ar condicionado	F+F+T	B1	220 V								1		4000	3600	R+S	1800	1800		1.00	0.38	18.2	2.5	31.0	20.0	3.26	5.77	Ok
17	Ar condicionado	F+F+T	B1	220 V								1		4000	3600	R+S	1800	1800		1.00	0.38	18.2	2.5	31.0	20.0	3.09	6.91	Ok
18	Ar condicionado	F+F+T	B1	220 V								1		4000	3600	R+S	1800	1800		1.00	0.38	18.2	2.5	31.0	20.0	1.82	5.63	Ok
19	Ar condicionado	F+F+T	B1	220 V								1		4000	3600	R+S	1800	1800		1.00	0.38	18.2	2.5	31.0	20.0	2.43	6.25	Ok
20	Reserva	F+N	B1	127 V										0	0	R				1.00	1.00	0.0	2.5	31.0	10.0		3.81	Ok
21	Reserva	F+N	B1	127 V										0	0	R				1.00	1.00	0.0	2.5	31.0	10.0		3.81	Ok
22	Reserva	F+F	B1	220 V										0	0	R+S				1.00	1.00	0.0	2.5	31.0	10.0		3.81	Ok
TOTAL					4	82	14	2	37	8	1	5	4	49629	44556	R+S+T	15356	15880	13320									



QUADRO DE DEMANDA (QD6)

TIPO DE CARGA	Potência instalada (kVA)	Fator de demanda (%)	Demanda (kVA)
ILUMINAÇÃO E TUG´S (ESCOLAS E SEMELHANTES)	12.00	100	12.00
	34.67	50	17.33
		TOTAL	29.33

QD6 (QUADRO DE DISTRIBUIÇÃO BLOCO B)



QUADRO DE CARGAS (QD6)

Circuito	Descrição	Esquema	Método de inst.	V (V)	Iluminação (W) 32	150	Tomadas (W) 20	100	200	3600	4400	Pot. total. (VA)	Pot. total. (W)	Fases	Pot. - R (W)	Pot. - S (W)	Pot. - T (W)	FCT	FCA	In' (A)	Seção (mm2)	Ic (A)	Disj (A)	dV parc (%)	dV total (%)	Status
1	Iluminação	F+N	B1	127 V	28							1106	896	S		896		1.00	0.38	21.2	2.5	31.0	10.0	1.99	5.90	Ok
	ah				8							316	256	S		256			0.80	2.5	2.5	31.0				Ok
	ai				2							79	64	S		64			0.80	0.6	2.5	31.0				Ok
	aj				4							158	128	S		128			0.70	1.2	2.5	31.0				Ok
	ak				8							316	256	S		256			0.70	2.5	2.5	31.0				Ok
	al				6							237	192	S		192			0.70	1.9	2.5	31.0				Ok
2	Iluminação	F+N	B1	127 V	26							1027	832	S		832		1.00	0.38	19.7	2.5	31.0	10.0	1.80	5.71	Ok
	am				6							237	192	S		192			0.70	1.9	2.5	31.0				Ok
	an				8							316	256	S		256			0.70	2.5	2.5	31.0				Ok
	ao				4							158	128	S		128			0.70	1.2	2.5	31.0				Ok
	ap				8							316	256	S		256			0.65	2.5	2.5	31.0				Ok
3	Iluminação	F+N	B1	127 V	24	1						1113	918	R	918			1.00	0.38	21.4	2.5	31.0	10.0	2.73	6.64	Ok
	ar				16							632	512	R	512				0.38	5.0	2.5	31.0				Ok
	as				8							316	256	R	256				1.00	2.5	2.5	31.0				Ok
	at					1						165	150	R	150				0.41	1.3	2.5	31.0				Ok
4	Iluminação de emergencia	F+N+T	B1	127 V			11					1100	220	T			220	1.00	0.38	21.1	2.5	31.0	10.0	1.52	5.43	Ok
5	Tomada	F+N+T	B1	127 V				4	2			958	800	R	800			1.00	0.38	19.9	2.5	31.0	10.0	2.44	4.96	Ok
6	Tomada	F+N+T	B1	127 V				4	2			958	800	T			800	1.00	0.38	19.9	2.5	31.0	10.0	2.18	4.70	Ok
7	Tomada	F+N+T	B1	127 V				6	2			1208	1000	T			1000	1.00	0.38	25.0	2.5	31.0	10.0	2.12	4.64	Ok
8	Tomada	F+N+T	B1	127 V				6	2			1194	1000	T			1000	1.00	0.38	24.8	2.5	31.0	10.0	1.92	4.44	Ok
9	Chuveiro	F+F+T	B1	220 V							1	4400	4400	R+T	2200		2200	1.00	0.38	48.8	6	54.0	20.0	1.62	5.53	Ok
10	Chuveiro	F+F+T	B1	220 V							1	4400	4400	S+T		2200	2200	1.00	0.38	48.8	6	54.0	20.0	1.59	5.50	Ok
11	Chuveiro	F+F+T	B1	220 V							1	4400	4400	S+T		2200	2200	1.00	0.38	48.8	6	54.0	20.0	1.73	5.64	Ok
12	Chuveiro	F+F+T	B1	220 V							1	4400	4400	R+T	2200		2200	1.00	0.38	48.8	6	54.0	20.0	1.48	5.39	Ok
13	Chuveiro	F+F+T	B1	220 V							1	4400	4400	R+S	2200	2200		1.00	0.38	48.8	6	54.0	20.0	1.45	5.36	Ok
14	Ar condicionado	F+F+T	B1	220 V						1		4000	3600	R+S	1800	1800		1.00	0.38	44.3	6	54.0	20.0	1.47	5.38	Ok
15	Ar condicionado	F+F+T	B1	220 V						1		4000	3600	R+S	1800	1800		1.00	0.38	44.3	6	54.0	20.0	1.25	5.16	Ok
16	Ar condicionado	F+F+T	B1	220 V						1		4000	3600	R+S	1800	1800		1.00	0.38	44.3	6	54.0	20.0	0.90	4.81	Ok
17	Ar condicionado	F+F+T	B1	220 V						1		4000	3600	R+S	1800	1800		1.00	0.38	44.3	6	54.0	20.0	0.86	4.77	Ok
18	Reserva	F+N	B1	127 V								0	0	S				1.00	1.00	0.0	2.5	31.0	10.0		3.91	Ok
19	Reserva	F+N	B1	127 V								0	0	S				1.00	1.00	0.0	2.5	31.0	10.0		3.91	Ok
20	Reserva	F+N	B1	127 V								0	0	S				1.00	1.00	0.0	2.5	31.0	10.0		3.91	Ok
TOTAL					78	1	11	20	8	4	5	46666	42866	R+S+T	15518	15528	11820									

PREFEITURA MUNICIPAL DE PONTA PORÃ SECRETARIA MUNICIPAL DE OBRAS E URBANISMO

OBRA: CONSTRUÇÃO DE CRECHE PROJETO PROINFÂNCIA TIPO 01

TÍTULO: PROJETO DE INSTALAÇÃO ELÉTRICA

LOCAL: RUA MUNICIPAL ESQUINA COM A RUA JUAZEIRO, LOTE 02, JARDIM IVONE II MATRÍCULA N°9337

AUTORES DO PROJETO
HDO ENGENHARIA E CONSULTORIA
ENG.HALBERTH DUTRA CREA 6993 MS/D
ENG.JEAN DORNELES CREA 15.239 MS/D

PROPRIETÁRIO: HELIO PELUFFO FILHO, PREFEITO MUNICIPAL

OBJETO: ELABORAÇÃO DE PROJETO DE REFORMA DE CRECHE PROINFÂNCIA TIPO 01

ÁREAS:

FOLHA: 12/13

ESCALA: S/N | DATA: MAR/2021 | REVISÃO: | DESENHO: EQUIPE TÉCNICA