Circuit #	Load (KVV)	Load (A)	Load Type	Sets of Wires	Length	Voltage	Wire Size	Wire Type	Conduit Type	Z (Ω/kft)	% Voltage Drop
A-1	0.25	2.10	Kitchen	1	50 ft	120/1	#12	Cu	Metallic	2,000	0.4
A-3	1.92	16.00	Kitchen	1	45 ft	120/1	#12	Cu	Metailic	2.000	2.4
A-7	0.36	3.00	Kitchen	1	15 ft	120/1	#12	Cu	Metallic	2:000	0.2
A-9	0.76	6.29	Kitchen	1	55 ft	120/1	#12.	Cu	Metallic	2.000	1.2
A-11	0.76	6.29	Kitchen	1	55 ft	120/1	#12.	Cti	Metallic	2.000	1.2
A-13	0.50	4.17	Kitchen	1	40 ft	120/1	#12	Cu	Metallic	2.000	0.6
A-15	5.03	48.37	Kitchen	1	35 ft	208/1	#1	Cu	Metallic	0.160	0.5
A-17	5.03	48.37	Kitchen	1	35 ft	208/1	#1	Cu	Metallic	0.160	0.5
A-19	7.82	75.19	Kitchen	1	30 ft	208/1	#1	Cu	Metatlic	0.160	0.7
A-21	7.82	65.17	Kitchen	1	30 ft	120/1	#1	Cu	Metallic	0.160	0.5
A-23	1.50	12.50	Kitchen	. 1	35 ft	120/1	#12	Cu	Metallic	2.000	1.5
A-25	0.61	5.10	Kitchen	1	30 ft	120/1	#12	Cu	Metallic	2.000	0.5
A-27	0.40	3.30	Kitchen	1	35 ft	120/1	#12	Cu	Metallic	2:000	0.4
A-31	2.03	19.52	Kitchen	1	25 ft	208/1	#10	Çu	Metallic	1.200	1.1
A-33	2.03	19.52	Kitchen	1	25 ft	208/1	#10	Cu	Metallic	1.200	1.1
A-35	- 0.90	7.50	Kitchen	1	45 ft	120/1	#12	Cu	Metallic	2.000	1.1
A-37	0.59	4.90	Kitchen	1	25 ft	120/1	#12	Cu	Metallic	2.000	0.4
A-39	1.08	9.00	Receptaci	1	70 ft	120/1	#12	Cu	Metallic	2,000	2.1
A-2	0.90	7:50	Kitchen	1	25 ft	120/1	#12	Сu	Metallic	2.000	0.6
A-4	0.50	4.17	Receptact	1	45 ft	120/1	#12	Cu	Metallic	2.000	0.6
A-6	0.76	6.29	Kitchen	1	45 ft	120/1	#12	Cu	Metallic	2.000	0.9
A-8	0.72	6.00	Receptack	1	65 ft	120/1	#12	Cu	Metallic	2.000	1.3
A-10	0.50	4.17	Kitchen	1	25 ft	120/1	#12	Cu	Metallic	2.000	0.3
A-12	0.59	4.90	Kitchen	1	35 ft	120/1	#12	Cu	Metallic	2.000	0.6
A-14	1.16	9.67	Kitchen	1	35 ft	120/1	#12	Cu	Metaffic	2.000	1.1
A-16	0.63	5.21	Kitchen	1	45 ft	120/1	#12	Cu	Metallic	2.000	0.8
A-18	0.63	5.21	Kitchen	1	45 ft	120/1	#12	Cu	Metallic	2.000	0.8
A-20	1,44	12.00	Misc	1	50 ft	120/1	#12	Cu	Metallic	2,000	2.0
A-22	1.50	12.50	Misc	1	25 ft	120/1	#12	Cu	Metallic	2.000	1.0
A-24	1.50	12.50	Misc	1	35 ft	120/1	#12	Cu	Metallic	2.000	1.5
A-26	0.36	3.00	Receptaci	1	20 ft	120/1	#12	Cu	Metallic	2.000	0.2
A-28	0.50	4.17	Misc	1	45 ft	120/1	#12	Cu	Metallic	2.000	0.6
A-30	0.50	4.17	Misc	1	20 ft	120/1	#12	Cu	Metallic	2.000	0.3
A-32	0:36	3.00	Receptaci	1	45 ft	120/1	#12	Cu	Metallic	2.000	0.5
A-34	1.92	16.00	Kitchen	1	25 ft	120/1	#12	Cu	Metatlic	2.000	1.3
A-36	2.10	20.19	Kitchen	1 -	45 ft	208/1	#10	Cu	Metallic	1.200	2.1
A-38	2.10	20.19	Kitchen	1	45 ft	208/1	#10	Cu	Metaliic	1.200	2.1
A-40	2.10	20.19	Kitchen	1	45 ft	208/1	#10	Cu	Metallic	1.200	2.1
A-42	2.10	20.19	Kitchen	1	45 ft	208/1	#10	Cu	Metallic	1.200	2.1

Circuit #	Load (kW)	Load (A)	Load Type	Sets of Wires	Length	Voltage	Wire Size	Wire Type	Conduit Type	Z (Ω/kft)	% Voltag
B-1	0.23	1.90	HVAC	1	25 ft	208/3	#12	Cu	Metallic	2.000	0.1
B-3	0.23	1.90	HVAC	1	25 ft	208/3	#12	Cu	Metailic	2.000	0.1
8-5	0.23	1.90	HVAC	1	25 ft	208/3	#12	Cu	Metallic	2:000	0.1
B-7	0.23	1.90	HVAC	1	35 ft	208/3	#12	Cu	Metallic	2.000	0.1
B-9	0.23	1,90	HVAC	1	35 ft	208/3	#12	Cu	Metallic	2.000	0.1
B-11	0.23	1.90	HVAC	1	35 ft	208/3	#12	Cu	Metallic	2.000	0.1
B-13	0.30	2.50	HVAC	1	38 ft	208/3	#12	Cu	Metallic	2.000	0.2
B-15	0.30	2.50	HVAC	1	38 ft	208/3	#12	Cu	Metallic	2.000	0.2
B-17	0.30	2.50	HVAC	1	38 ft	208/3	#12	-Cu	Metallic	2.000	0.2
B-19	1,52	12.62	Kitchen	1	30 ft	208/3	#12	Cu	Metallic	2,000	0,6
8-21	1.52	12.62	Kitchen	1	30 ft	208/3	#12	Cu	Metallic	2.000	0.6
B-23	1.52	12.62	Kitchen	1	30 ft	208/3	#12	Cu	Metallic	2.000	0.6
B-25	1.14	9.49	Kitchen	1	35 ft	208/3	#12	Cu	Metallic	2.000	0.6
B-27	1.14	9.49	Kitchen	1	35 ft	208/3	#12	Cu	Metallic	2.000	0.6
B-29	1,14	9,49	Kitchen	1	35 ft	208/3	#12	Cu	Metallic	2.000	0.6
8-31	0.41	3.40	Misc	1	10 ft	120/1	#12	Cu	Metallic	2.000	0.1
B-33	0.50	4.17	Receptaci	1	48 ft	120/1	#12	Cu	Metallic	2.000	0.7
B-35	0.50	4.17	Receptaci	1	50 ft	120/1	#12	Cu	Metallic	2,000	0.7
B-37	1.00	8.33	Receptaci	1	50 ft	120/1	#12	Cu	Metallic	2.000	1.4
B-2	2.88	23.98	Kitchen	1	30 ft	208/3	#10	Cu	Metallic	1.200	0.7
B-4	1.44	11.99	Kitchen	1	30 ft	208/3	#10	Cu	Metallic	1.200	0.4
B-6	1.80	14.99	Kitchen	1	30 ft	208/3	#10	Cu	Metallic	1.200	0.4
B-8	2.88	23.98	Kitchen	1	30 ft	208/3	#10	Cu	Metallic	1.200	0.7
B-10	1.44	11.99	Kitchen	1	30 ft	208/3	#10	Cu	Metallic	1.200	0.4
B-12	1.80	14.99	Kitchen	1	30 ft	208/3	#10	Cu	Metallic	1.200	0.4
B-14	2.88	23.98	Kitchen	1	45 ft	208/3	#10	Cu	Metallic	1.200	1.1
B-16	1.44	11.99	Kitchen	1	45 ft	208/3	#10	Cu	Metallic	1.200	0.5
B-18	1.80	14,99	Kitchen	1	45 ft	208/3	#10	Cu	Metallic	1.200	0.7
B-20	4.75	39.55	Kitchen	1	34 ft	208/3	#6	Cu	Metallic	0.490	0.5
B-22	4.75	39.55	Kitchen	1	34 ft	208/3	#6	Cu	Metallic	0.490	0.5
B-24	4.75	39.55	Kitohen	1	34 ft	208/3	#6	Cu	Metallic	0.490	0.5
B-32	8.00	66.62	Misc	1	10 ft	208/3	#2	Cu	Metailic	0.200	0.1
B-34	8,00	66.62	Misc	1	10 ft	208/3	#2	Cu	Metallic	0.200	0.1
B-36	8:00	66.62	Misc	1	10 ft	208/3	#2	Cu	Metallic	0.200	0.1
B-38	0.10	0.83	Misc	1	10 ft	208/3	#12	Cu	Metallic	2.000	0.0
B-40	0.10	0.83	Misc	1	10 ft	208/3	#12	Cu	Metallic	2.000	0.0
B-42	0.10	0.83	Misc	1	10 ft	208/3	#12	Cu	Metallic	2.000	0.0

3-36	8:00	66.62	Misc	1	10 ft	208/3	#2	Cu	Metallio
3-38	0.10	0.83	Misc	1	10 ਜ	208/3	#12	Cu	Metallic
3-40	0.10	0.83	Misc	- 1	10 ft	208/3	#12	Cu	Metallio
3.42	0.10	0.83	Misc	1	10 ft	208/3	#12	Cu	Metallio
			work from a work and different contractions						***********
,	VOLTA	AGE [DROF	CAL	CUL	ATIC	NS	- PA	NEL
Circuit #	Load (kW)	Load (A)	Load Type	Sets of Wires	Length	Voltage	Wire Size	Тур	Conce Type
MDP-14	20.94	174.37	HVAC	1	25 ft	208/3		Сu	Metalli
MDP-16	20,94	174.37	HVAC	1	25 ft	2003	#4/0	M),Cu	Metalli
MDP-18	20.94	174.37	HVAC	1 .	25 ft	254111	#4/0		Metalli
MDP-20	7.56	62.95	HVAC	1	35 ft	208/3	11113	Ci.	Metalli
MDP-22	7.56	62.95	HVAC	1	35 ft	208/3		Cu	Metalli
MDP-24	7.56	62.95	HVAC	/ man	Manage ft	208/3	#3	Cu	Metalli
MDP-26	7.56	62.95	HVAC /	1	5 0 2t	208/3	#3	Cu	Metalli
MDP-28	7.56	62.95	HVAC	ymill	50	208/3	#3	Gu	Metalli
MDP-30	7.56	62.95	HVAC		50.0	208/3	#3	Cu	Metalli

Circuit #	Load (kW)	Load (A)	Load Type	Sets of Wires	Length	Voltage	Wire - Size	Wire Type	Conduit Type	Z (Ω/kft)	% Voltage Drop
C-1	0.62	5.17	Lighting	1	60 ft	120/1	#12	Cu	Metallic	2.000	1.0
C-3	0.68	5.67	Lighting	1	70 R	120/1	#12	Cu	Metallic	2.000	1.3
C-5	0.06	0.50	Lighting	1	80 ft	120/1	#12	Cu	Metallic	2.000	0.1
C-7	0.38	3.20	Lighting	1	75 ft	120/1	#12	Cu	Metallic	2.000	0.8
C-9	0.14	1.20	Lighting	1	85 ft	120/1	#12	Cu	Metallic	2.000	0.3
C-11	0.08	9.68	Lighting	1	80 ft	120/1	#12	Cu	Metallic	2.000	0.2
C-13	0.07	9,60	Lighting	1	45 ft	120/1	#12	Cu	Metallic	2.000	0.3
C-15	0.62	5.16	Lighting	1	35 ft	120/1	#12	Cu	Metallic	2.000	0.6
C-17	1.20	10.00	Misc	1	55 ft	120/1	#12	Cu	Metallic	2.000	1,8
C-19	1.20	10.00	Misc	1	55 ft	120/1	#12	Cu	Metallic	2.000	1.8
C-21	1.20	10.00	Misc	1	85 ft	120/1	#12	Си	Metallic	2.000	2.8
C-23	0.36	3.00	Lighting	1	100 ft	120/1	#12	Cu	Metallic	2.000	1.0
C-25	0.68	5.67	Lighting	1	100 ft	120/1	#12	Cu	Metallic	2.000	1.9
C-27	1.00	8.33	Misc	1	46 ft	120/1	#12	Cu	Metallic	2.000	1.3
C-31	0.36	3.00	Receptact	1	10 ft	120/1	#12	Cu	Metallic	2.000	0.1
C-33	1.32	11.00	Misc	1	35 ft	120/1	#12	Cu	Metallic	2.000	1.3
C-35	0.30	2.50	Misc	1	10 ft	120/1	#12	- Cu	Metallic	2.000	0.1
C-37	0.36	3.00	Receptaci	1	60 ft	120/1	#12	Cu	Metallic	2.000	0.6
C-39	0.90	7.50	Receptact		45 ft	120/1	#12	Cu	Metallic	2,000	1.1
C-41	0.72	6.00	Receptaci	1	35 ft	120/1	#12	Cu	Metallic	2.000	0.7
C-2	0.72	6.00	Receptaci	1	40 ft	120/1	#12	Cu	Metallic	2/1884	8,0
C-4	1.08	9.00	Misc	1	60 ft	120/1	#12	Cu	Metallic	000	1.8
C-6	1.20	10.00	Lighting	1	80 ft	120/1	#12	Cti	Million	000	
C-8	1.20	10.00	Lighting	1	80 ft	120/1	##	Cu	Metal	2.44111	<i>ufff2.</i> 7
C-10	0.45	4.29	Lighting	1	85 ft	208/1	#8	A CHE	Metallic	0.780	0.5
C-12	0.45	4.29	Lighting	1 -	85 ft	208/1	#8	//// Cu	tallic	11111180	0.5
C-14	0.45	4.29	Lighting	1	100,4	208/1	#8	Why.	Madilic	0.780	0.6
C-16	0.45	4.29	Lighting	1	100 R	208/1	#8	Silly.	Maltic	0.780	0.6
C-18	0.50	4.17	Misc	1 /4	15 ft	100/1	#12	Cu	Metallic	2.000	0.2
C-20	1.10	9.17	Misc	1	MAO ft		#12	. Cu	Metallic	2.000	1.2
C-22	1.10	9.13	Misc di	IIIIIn.	Whi.	120	#2	Cu	Metallic	2.000	1.3
C-24	1.08	9:00	Respiraci		1400	120/1	1112	Cu	Metallic	2.000	2,3
C-26	0.18	1.50	eptacl	~~~	35	1207	#12	Cu	Metallic	2.000	0.2
C-28	0.72	6.00	Restaci	1 1	40 ft	120/1	#12	Cu	Metallic	2,000	0.8
C-30	0.72	6.00	Received	1	30 ft	120/1	#12	Cu	Metallic	2.000	0.6
C-32	odlh.	7.50	Recept		30 ft	120/1	#12	Cu	Metallic	2.000	0.8
C-34	0,50	4.17	Misc		35 ft	120/1	#12	Cu	Metallic	2.000	0.5
C-36 //	0.50	4.17	Mist		35 ft	120/1	#12	Cu	Metallic	2.000	0.5
C-38	0.50	4.17 3.00	Mis	1	40 ft	120/1	************				
		- Who		1			#12	Cu	Metallic	2.000	0,8
C-40 👢	0.18		Wisc	7	35 ft	120/1	#12	Cu	Metallic	2.000	0.2

MED Project # 18228

Residents

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ENTERPRIBEES, NC. P.O. BOX 1906 TOCKY MOUNT, NC. Z7802-1608



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	REVISIONS	DESCRIPTION							
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VOLTAGE DROP CALCULATION

9-4-2019

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Circuit #	Load (kW)	Load (A)	Load Type	Sets of Wires	Length	Voltage	Wire Size	Wire Type	Conduit Type	Z (Ω/kft)	% Voltage Drop
D-1	5.76	47.96	Kitchen	1	37 ft	208/3	#4	Cu	Metallic	0.310	0.5
D-3	5.76	47.96	Kitchen	- 1	37 ft	208/3	#4	Cu	Metallic	0,310	0.5
D-5	5.76	47.96	Kitchen	1	37 ft	208/3	#4	Cu	Metallic	0.310	0.5
D-7	5.76	47.96	Kitchen	1	35 ft	208/3	#4	Cu	Metallic	0.310	0.4
D-9	5.76	47.96	Kitchen	. 1	35 ft	208/3	#4	Cu	Metallic	0.310	0.4
D-11	5.76	47.96	Kitchen	1	35 ft	208/3	#4	Cu	Metallic	0.310	0.4
D-13	5.76	47.96	Kitchen	. 1	40 ft	208/3	#4	Cu	Metallic	0.310	0.5
D-15	5.76	47.96	Kitchen	1	40 ft	208/3	#4	Cu	Metallic	0.310	0.5
D-17	5.76	47.96	Kitchen	1	40 ft	208/3	#4	Cu	Metallic	0.310	0.5
D-19	5.76	47.96	Kitchen	1	37 ft	208/3	#4	Cu	Metallic	0.310	0.5
D-21	5.76	47.96	Kitchen	1	37 ft	208/3	#4	Cu	Metallic	0.310	0.5
D-23	5.76	47.96	Kitchen	.1	37 ft	208/3	#4	Cu	Metallic	0.310	0.5
D-25	7.68	63.95	Kitchen	1	25 ft	208/3	#3	Cu	Metallic	0.250	0.3
D-27	7.68	63.95	Kitchen	1	25 ft	208/3	#3	Cu	Metallic	0.250	0.3
D-29	7.68	63,95	Kitchen	1	25 R	208/3	#3	Cu	Metallic	0.250	0.3
D-31	0.90	7.50	Receptaci	1	50 ft	120/1	#12	Cu	Metallic	2.000	1.3
D-33	0.50	4.17	Misc	1	40 ft	120/1	#12	Cu	Metallic	2.000	0.6
D-35	0.36	3.00	Receptact	1	35 ft	120/1	#12	Cu	Metallic	2.000	0.4
D-39	1.68	16.00	Kitchen	;	30 ft	208/1	#12	Cu	Metallic	2.000	1.8
D-41	1.66	16.00	Kitchen	1	30 ft	208/1	#12	Cu	Metallic	2.000	1.8
D-14	0.41	3.40	HVAC	1	40 ft	208/3	#12	Cu	Metallic	2.000	dillilling
D-16	0.41	3.40	HVAC	1	40 ft	208/3	#12	Cu	Metallic	2.000	0.24
D-18	0.41	3.40	HVAC	1	40 ft	208/3	#12	Cu	Metallic	2.000	0.2
D-20	1.41	13.51	Kitchen	1	15 ft	208/1	#12	Cu	Metallic	2.000	Mp.8.//
D-22	1.41	13.51	Kitchen	1	15 ft	208/1	#12	Cu	Metallic	2.000	1000
D-24	1.00	8.33	HVAC	1	40 ft	120/1	#12	Cu	Metallic	2.000	
D-26	0.50	4.17	Misc	1	80 ft	120/1	#12	Cu	Metalli	2.000	1 1
D-32	12.12	100.92	Misc	1	40 ft	208/3	#1/0	Cu	MARINA	0.120	0.4
D-34	12.12	100.92	Misc	1	40 ft	208/3	# 1/0	Callli	// Jetal	0.120	0.4
D-36	12.12	100:92	Misc	- 1	40.8	208/3	1/4 4/0		Metallic		0.4

g Sep 84, 2019 - 4:34pm

Sep 04, 2019 - 4:34pm