PANELBOARD SCHEDULE - "EL1A"

MAIN: 125A MLO | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: | NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	1/2"	BAG/TLT LTS-LCP1A	0.1								0.1							STAIR LTS	1/2"	12	1	20	2
3	20	1	12	1/2"	PRIMARY LTS LCP1A	0.8								0.1							STAIR LTS	1/2"	12	1	20	4
5	20	1	12	1/2"	OFF/HALL/BRK LTS-LCP1A	0.5								0.2							ELEC/SLAN LTS	1/2"	12	1	20	6
7	20	1	12	1/2"	LCKR/TLT LTS-LCP1A	0.2								0.2							NIGHT LTS	1/2"	12	1	20	8
9	20	1	12	1/2"	INT/SEC/RLD LTS-LCP1A	0.7															SPARE	1/2"	12	1	20	10
11	20	1	12	1/2"	SPARE																SPARE	1/2"	12	1	20	12
13	20	1	12	1/2"	SPARE																SPARE	1/2"	12	1	20	14
15	20	1	12	1/2"	SPARE																SPARE	1/2"	12	1	20	16
17	20	1	12	1/2"	SPARE																SPARE	1/2"	12	1	20	18
19					SPACE																SPACE					20
21					SPACE																SPACE					22
23					SPACE																SPACE					24
25					SPACE																SPACE					26
27					SPACE																SPACE					28
29					SPACE																SPACE					30
LIGHTING (KVA):					2.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0		0.6	0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA):					2.9

RECEPTACLES (KVA): 0.0				DEMAND LOAD (KVA): 3.6
MOTORS (KVA): 0.0	PHASE A	1	5.0	
A/C (KVA): 0.0	PHASE B	2	13.3	CONNECTED LOAD (AMPS): 8.0
HEATING (KVA): 0.0	PHASE C	1	5.3	DEMAND LOAD (AMPS): 10.1
KITCHEN (KVA): 0.0		KVA	AMPS	
MISCELLANEOUS (KVA): 0.0				
NOTES:				

1. LCP1A - WIRE VIA LIGHTING CONTROL PANEL.
2. PROVIDE SWD/HID RATED BREAKERS FOR LIGHTING CIRCUITS.

EL1A DEMAND CALCS

LIGHTING		2.90	KVA X 125 % =	3.6 KVA
RECEPTACLE	TOTAL	0.00	KVA	
	1ST	10.00	KVA X 100 % =	0.0 KVA
	REMAIN	0.00	KVA X 50 % =	0.0 KVA
MOTORS		0.00	KVA X 100 % =	0.0 KVA
A/C		0.00	KVA X 100 % =	0.0 KVA
HEATING		0.00	KVA X 100 % =	0.0 KVA
FUTURE		____	KVA X 100 % =	0.0 KVA
KITCHEN		0.00	KVA X 65 % =	0.0 KVA
MISCELLANEOUS		0.00	KVA X 100 % =	0.0 KVA
TOTAL	=	10.1 amps	=	3.6 KVA

PANELBOARD SCHEDULE - "EL1B"

MAIN: 125A MLO | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: | NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	1/2"	OFF/LCKR/HALL LTS-LCP1B	0.4								0.1							RISER/SER ENT LTS	1/2"	12	1	20	2
3	20	1	12	1/2"	TOILET LTS LCP1B	0.3								0.1							NIGHT LTS	1/2"	12	1	20	4
5	20	1	12	1/2"	CATER/JAN LTS-LCP1B	0.1								0.1							CONF 131 LTS	1/2"	12	1	20	6
7	20	1	12	1/2"	WTG/TLT/HALL LTS-LCP1B	0.3								0.1							NIGHT LTS	1/2"	12	1	20	8
9	20	1	12	1/2"	SSCP/OFF LTS LCP1B	0.3								0.2							ELEC/COM RM LTS	1/2"	12	1	20	10
11	20	1	12	1/2"	SPARE									0.1							STAIR LTS	1/2"	12	1	20	12
13	20	1	12	1/2"	SPARE									0.1							STAIR LTS	1/2"	12	1	20	14
15	20	1	12	1/2"	SPARE																SPARE	1/2"	12	1	20	16
17	20	1	12	1/2"	SPARE																SPARE	1/2"	12	1	20	18
19	20	1	12	1/2"	SPARE																SPARE	1/2"	12	1	20	20
21	20	1	12	1/2"	SPARE																SPARE	1/2"	12	1	20	22
23	20	1	12	1/2"	SPARE																SPARE	1/2"	12	1	20	24
25					SPACE																SPACE					26
27					SPACE																SPACE					28
29					SPACE																SPACE					30
LIGHTING (KVA):					2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0		0.8	0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA):					2.2

RECEPTACLES (KVA): 0.0				DEMAND LOAD (KVA): 2.2
MOTORS (KVA): 0.0	PHASE A	1	8.3	
A/C (KVA): 0.0	PHASE B	1	7.5	CONNECTED LOAD (AMPS): 6.1
HEATING (KVA): 0.0	PHASE C	0	2.5	DEMAND LOAD (AMPS): 7.6
KITCHEN (KVA): 0.0		KVA	AMPS	
MISCELLANEOUS (KVA): 0.0				
NOTES:				

1. LCP1B - WIRE VIA LIGHTING CONTROL PANEL.
2. PROVIDE SWD/HID RATED BREAKERS FOR LIGHTING CIRCUITS.

EL1B DEMAND CALCS

LIGHTING		2.20	KVA X 125 % =	2.8 KVA
RECEPTACLE	TOTAL	0.00	KVA	
	1ST	10.00	KVA X 100 % =	0.0 KVA
	REMAIN	0.00	KVA X 50 % =	0.0 KVA
MOTORS		0.00	KVA X 100 % =	0.0 KVA
A/C		0.00	KVA X 100 % =	0.0 KVA
HEATING		0.00	KVA X 100 % =	0.0 KVA
FUTURE		____	KVA X 100 % =	0.0 KVA
KITCHEN		0.00	KVA X 65 % =	0.0 KVA
MISCELLANEOUS		0.00	KVA X 100 % =	0.0 KVA
TOTAL	=	7.6 amps	=	2.8 KVA

PANELBOARD SCHEDULE - "EL2"

MAIN: 125A MLO | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: | NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	1/2"	HALL/JAN/MEN LTS-LCP2	0.3								0.4							TEMP LTS	1/2"	12	1	20	2
3	20	1	12	1/2"	TLT/SHOWER LTS-LCP2	0.4								0.5							TEMP LTS	1/2"	12	1	20	4
5	20	1	12	1/2"	KITCH/STRG LTS-LCP2	0.2								0.4							ELEC/COM LTS	1/2"	12	1	20	6
7	20	1	12	1/2"	FUTURE LIGHTS	1.0								0.4							CONFERENCE RM LTS	1/2"	12	1	20	8
9	20	1	12	1/2"	FUTURE LIGHTS	1.0								0.2							NIGHT LTS	1/2"	12	1	20	10
11	20	1	12	1/2"	FUTURE LIGHTS	1.0								1.0							FUTURE LIGHTS	1/2"	12	1	20	12
13	20	1	12	1/2"	FUTURE LIGHTS	1.0								1.0							FUTURE LIGHTS	1/2"	12	1	20	14
15	20	1	12	1/2"	FUTURE LIGHTS	1.0								1.0							FUTURE LIGHTS	1/2"	12	1	20	16
17	20	1	12	1/2"	FUTURE LIGHTS	1.0								0.1							OBSTRUCTION BEACON LT	1/2"	12	1	20	18
19	20	1	12	1/2"	SPARE																SPARE	1/2"	12	1	20	20
21	20	1	12	1/2"	SPARE																SPARE	1/2"	12		20	22
23	20	1	12	1/2"	SPARE																SPARE	1/2"	12		20	24
25					SPACE																SPACE					26
27					SPACE																SPACE					28
29					SPACE																SPACE					30
LIGHTING (KVA):					11.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0		5.0	0.0	0.0	0.0	0.0	0.0	0.0	CONNECTED LOAD (KVA):					11.9

RECEPTACLES (KVA): 0.0				DEMAND LOAD (KVA): 14.9
MOTORS (KVA): 0.0	PHASE A	4	34.2	
A/C (KVA): 0.0	PHASE B	4	34.2	CONNECTED LOAD (AMPS): 33.0
HEATING (KVA): 0.0	PHASE C	4	30.8	DEMAND LOAD (AMPS): [illegible]
KITCHEN (KVA): 0.0		KVA	AMPS	
MISCELLANEOUS (KVA): 0.0				
NOTES:				

1. LCP2 - WIRE VIA LIGHTING CONTROL PANEL.
2. PROVIDE SWD/HID RATED BREAKERS FOR LIGHTING CIRCUITS.

EL2 DEMAND CALCS

LIGHTING		11.90	[illegible] % =	14.9 KVA
RECEPTACLE	TOTAL	0.00	KVA	
	1ST	[illegible]	KVA X [illegible]	0.0 KVA
	REMAIN	[illegible]	KVA X 5[illegible] %	0.0 KVA
MOTORS		0.00	[illegible] 100 % =	[illegible] KVA
A/C		0.00	KVA X [illegible] % =	0.0 KVA
HEATING		0.00	KVA X 100 [illegible]	0.0 KVA
FUTURE		____	KVA X 100 % =	0.0 KVA
KITCHEN		0.00	KVA X 65 % =	0.0 KVA
MISCELLANEOUS		0.00	KVA X 100 % =	0.0 KVA
TOTAL		41.3 amps	=	14.9 KVA

PANELBOARD SCHEDULE - "P2"

MAIN: 225A MCB | VOLTAGE: 208/120 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: | NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1	20	1	12	1/2"	CEILING FANS			1.5											2.6		CONC DISHWASHER	3/4"	8	2	40	2
3	20	1	12	1/2"	CEILING FANS			1.5											2.6							4
5	20	1	12	1/2"	CEILING FANS			1.5											1.2		CONC ICE MAKER	3/4"	10	2	20	6
7	20	1	12	1/2"	REFRIGERATOR - GFI						0.8								1.2							8
9	20	1	12	1/2"	COUNTER RECEP'S		0.5												0.6		CONC ICE MAKER	3/4"	10	1	20	10
11	20	1	12	1/2"	COUNTER RECEP'S		0.5								0.7						TV RECEP'S	1/2"	12	1	20	12
13	20	1	12	1/2"	COUNTER RECEP'S		0.5								0.7						TV RECEP'S	1/2"	12	1	20	14
15	20	1	12	1/2"	EWC - GFI			0.6							0.7						TV RECEP'S	1/2"	12	1	20	16
17	20	1	12	1/2"	GAS WATER HEATER							0.5			0.7						TV RECEP'S	1/2"	12	1	20	18
19	20	1	12	1/2"	DISPOSAL						0.5				0.7						TV RECEP'S	1/2"	12	1	20	20
21	20	1	12	1/2"	CONF RM FLR RECEP'S		0.7								0.7						TV RECEP'S	1/2"	12	1	20	22
23	20	1	12	1/2"	CONF RM RECEP'S		1.1								0.4						CONF RM TV'S	1/2"	12	1	20	24
25	20	1	12	1/2"	CONF RM RECEP'S		1.3													0.2	VAV CNTRL PWR	1/2"	12	1	20	26
27	20	1	12	1/2"	RECEPTACLES											0.4					RECIRC PUMP	1/2"	12	1	20	28
29	20	1	12	1/2"	RECEPTACLES										0.7						RR/JAN RECEP'S-GFI	1/2"	12	1	20	30
31	20	1	12	1/2"	RECEPTACLES										0.7						RR/JAN RECEP'S-GFI	1/2"	12	1	20	32
33	20	1	12	1/2"	RECEPTACLES															0.4	TOWEL DISP'S-GFI	1/2"	12	1	20	34
35	20	1	12	1/2"	RECEPTACLES										0.9						CORR/ELEC RECEP'S	1/2"	12	1	20	36
37	20	1	12	1/2"	RECEPTACLES										0.9						LOBBY RECEP'S	1/2"	12	1		38
39	20	1	12	1/2"	FACP - L							1.0								0.2	ELEV RELIEF LVR	1/2"	12		20	40
41	20	1	12	1/2"	FACP - L							1.0		0.1	0.4						ROOF RECEP'S	1/2"	12		20	42
					SECTION 2																SECTION 2					
43	20	1	12	1/2"	ELEC/COM/ACC RECEP'S		0.5										1.4				RT/OU-1		10	2		44
45	20	1	12	1/2"	ACC CNTRL EQUIP REC'S		0.5										1.4									46
47	20	1	12	1/2"	ACC CNTRL EQUIP REC'S		0.5										1.4				RT/OU-2	3/4"		2		48
49	20	1	12	1/2"	ACC CNTRL EQUIP REC'S		0.5										1.4									50
51	20	1	12	1/2"	ACC CNTRL EQUIP REC'S		0.5										1.4					3/4"	10		20	52
53	20	1	12	1/2"	ACC CNTRL EQUIP REC'S		0.5										1.4									54
55	20	1	12	1/2"	ELEV RM LTS/RECEP	0.1	0.2										1.4				RT/OU	3/4"	10	2	20	56
57	20	1	12	1/2"	ELEV 2-WAY COMM SYS							0.2					1.4									58
59	20	1	12	1/2"	ELEV LTS/CNTRL							1.0					1.4				RT/OU-5	3/4"	10	2	20	60
61					SPACE																					62
63					SPACE																RT/OU-7	3/4"	10	2	20	64
65					SPACE																					66
67					SPACE																RT/OU-8	3/4"	10	2	20	68
69					SPACE																					70
71					SPACE																RT/OU-9	3/4"	10	2	20	72
73								1.3																		74
75	20	3	8	1"	AIR COMPRESSOR 3HP			1.3							0.4						ROOF RECEP'S	1/2"	12	1	20	76
77								1.3									1.4				RT/OU-6	3/4"	10	2	20	78
79																	1.4									80
81	30	3	6	1"	BOOSTER PUMPS (2) 3HP												1.4				RT/OU-10	3/4"	10	2	20	82
83																	1.4									84
LIGHTING (KVA):					0.3	0.1	7.8	16.[illegible]		0.0	1.3			0.2	8.6	0.4	28.0	0.0	8.2	0.8	CONNECTED LOAD (KVA):					75.6

RECEPTACLES (KVA): 16.4				DEMAND LOAD (KVA): 69.2
MOTORS (KVA): 16.9	PHASE A	27	220.8	
A/C (KVA): 28.0	PHASE B	24	198.3	CONNECTED LOAD (AMPS): 209.8
HEATING (KVA): 0.0	PHASE C	25	210.8	DEMAND LOAD (AMPS): 191.9
KITCHEN (KVA): 9.5		KVA	AMPS	
MISCELLANEOUS (KVA): 4.5				
NOTES:				

1. PROVIDE FEED THROUGH LUG SET FOR SECTION I.
2. GFI - PROVIDE GFI BREAKER FOR CIRCUIT.
3. L - INDICATES LOCK-ON ATTACHMENT REQUIRED.
4. PROVIDE SWD/HID RATED BREAKERS FOR LIGHTING CIRCUITS.
5. PROVIDE HACR BREAKERS FOR HVAC EQUIPMENT.

P2 DEMAND CALCS

LIGHTING		0.30	KVA X 125 % =	0.4 KVA
RECEPTACLE	TOTAL	16.40	KVA	
	1ST	10.00	KVA X 100 % =	10.0 KVA
	REMAIN	6.40	KVA X 50 % =	3.2 KVA
MOTORS		16.90	KVA X 100 % =	16.9 KVA
A/C		28.00	KVA X 100 % =	28.0 KVA
HEATING		0.00	KVA X 100 % =	0.0 KVA
FUTURE		____	KVA X 100 % =	0.0 KVA
KITCHEN		9.50	KVA X 65 % =	6.2 KVA
MISCELLANEOUS		4.50	KVA X 100 % =	4.5 KVA
TOTAL	=	191.9 amps	=	69.2 KVA

M2 DEMAND CALCS

LIGHTING		0.30	KVA X 125 % =	0.4 KVA
RECEPTACLE	TOTAL	16.40	KVA	
	1ST	10.00	KVA X 100 % =	10.0 KVA
	REMAIN	6.40	KVA X 50 % =	3.2 KVA
MOTORS		19.90	KVA X 100 % =	19.9 KVA
A/C		28.00	KVA X 100 % =	28.0 KVA
HEATING		183.60	KVA X 100 % =	183.6 KVA
FUTURE		____	KVA X 100 % =	0.0 KVA
KITCHEN		9.50	KVA X 65 % =	6.2 KVA
MISCELLANEOUS		4.50	KVA X 100 % =	4.5 KVA
TOTAL	=	307.6 amps	=	255.8 KVA

PANELBOARD SCHEDULE - "M2"

MAIN: 400A MLO | VOLTAGE: 480/277 | PHASE: 3 | WIRE: 4 | MOUNTING: SURFACE | AIC: | NOTES:

CKT #	BKR TRIP	POLE	WIRE SIZE	COND SIZE	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	PHASE A B C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	COND SIZE	WIRE SIZE	POLE	BKR TRIP	CKT #
1										3.3								3.3								2
3	20	3	12	1/2"	VAV-1594					3.3								3.3			VAV-1602	1/2"	12	3	20	4
5										3.3								3.3								6
7										3.3								4.7								8
9	20	3	12	1/2"	VAV-1595					3.3								4.7			VAV-1593	3/4"	10	3	25	10
11										3.3								4.7								12
13										3.3								3.7								14
15	20	3	12	1/2"	VAV-1596					3.3								3.7			VAV-1590	1/2"	12	3	20	16
17										3.3								3.7								18
19										3.3								3.7								20
21	20	3	12	1/2"	VAV-1597					3.3								3.7			VAV-1589	1/2"	12	3	20	22
23										3.3								3.7								24
25										3.3								3.0			VAV-1586	1/2"	12	1	20	26
27	20	3	12	1/2"	VAV-1598					3.3								5.0			VAV-1580	3/4"	10	1	25	28
29										3.3								2.0			VAV-1582	1/2"	12	1	20	30
31										3.3								9.0			VAV-1584	1"	6	1	50	32
33	20	3	12	1/2"	VAV-1599					3.3								9.0			VAV-1550	1"	6	1	50	34
35										3.3								7.0			VAV-1579	3/4"	8	1	40	36
37										3.3								5.0			VAV-1585	3/4"	10	1	25	38
39	20	3	12	1/2"	VAV-1601					3.3								2.0			VAV-1582	1/2"	12	1	20	40
41										3.3								3.0			FUTURE WATER HEATER	1/2"	12	1	20	42
43										4.7								3.0			FUTURE WATER HEATER	1/2"	12	1	20	44
45	25	3	10	3/4"	VAV-1588					4.7								3.0			FUTURE WATER HEATER	1/2"	12	1	20	46
47										4.7								3.0			FUTURE WATER HEATER	1/2"	12	1	20	48
49	20	1	12	1/2"	HAND DRYER			1.5						0.1	6.0	5.3	9.8	0.0	3.1	0.2						50
51	20	1	12	1/2"	HAND DRYER			1.5						0.1	4.0	6.3	8.4	0.0	3.2	1.8	PANEL P2 VIA 75KVA TX	1 1/4"	2	3	110	52
53	20	1	12	1/2"	SPARE									0.1	6.4	5.3	9.8	0.0	3.2	2.5						54
LIGHTING (KVA):					0.3	0.0	0.0	3.0	0.0	83.4	0.0	0.0		0.3	16.4	16.9	28.0	100.2	9.5	4.5	CONNECTED LOAD (KVA):					262.2

RECEPTACLES (KVA): 16.4				DEMAND LOAD (KVA): 255.8
MOTORS (KVA): 19.9	PHASE A	91	329.2	
A/C (KVA): 28.0	PHASE B	88	315.9	CONNECTED LOAD (AMPS): 315.4
HEATING (KVA): 183.6	PHASE C	84	301.4	DEMAND LOAD (AMPS): 307.6
KITCHEN (KVA): 9.5		KVA	AMPS	
MISCELLANEOUS (KVA): 4.5				
NOTES:				

1. PROVIDE HACR BREAKERS FOR HVAC EQUIPMENT.

WL-1710-E0403.dwg, Plotted By: ryan
Dec 17, 2018 — 10:35am

Order Plans @ www.LDILine.com

SABER
ENGINEERING
2923 South Tryon Street Suite 280
Charlotte, North Carolina 28203
tel 704.373.0068
MECHANICAL ELECTRICAL PLUMBING

NORTH CAROLINA PROFESSIONAL ENGINEER EDWARD M. MORRISON JR.
DEC 7, 2018
FIRM NUMBER = C-2130

WILSON AIR CENTER
NORTH TERMINAL
HCDT-18-0018
CHARLOTTE-DOUGLAS INTERNATIONAL AIRPORT
5321 MORRIS FIELD DRIVE
CHARLOTTE, NC 28208

ARCHITECT
THE WILSON GROUP
P O BOX 5510
CHARLOTTE, NC 28299
(704) 331-9747

CIVIL ENGINEER
TALBERT, BRIGHT & ELLINGTON
3525 WHITEHALL PARK DRIVE, SUITE 210
CHARLOTTE, NC 28273
(704) 426-6070 FIRM NO.: C-1163

STRUCTURAL ENGINEER
STEWART
101 N. TRYON ST., SUITE 1400
CHARLOTTE, NC 28202
(704) 909-3523 FIRM NO.: C-1051

MECHANICAL, ELECTRICAL, PLUMBING & FIRE PROTECTION ENGINEER
SABER ENGINEERING
2923 S. TRYON ST., SUITE 280
CHARLOTTE, NC 28203
(704) 373-0068 FIRM NO.: C-2130

LANDSCAPE ARCHITECT
URBAN DESIGN PARTNERS
1318-E6 CENTRAL AVENUE
CHARLOTTE, NC 28205
(704) 334-3303 FIRM NO. C-TBD

COMMUNICATIONS INFRASTRUCTURE
DB CONSULTING
246 LOVES FARM ROAD
BLACKSBURG, SC 29702
(704) 497-7228 FIRM NO. C-TBD

REVISIONS

DATE DECEMBER 7, 2018
PROJECT NUMBER 9197-000

SHEET TITLE
PANEL SCHEDULES

SHEET NUMBER
E-403