

SUBWAY ELECTRICAL EQUIPMENT CONNECTION SCHEDULE										
EQUIP. TAG	DESCRIPTION	MOUNTING HEIGHT AND/OR SPECIAL INSTRUCTIONS	VOLTAGE	KVA/KW	BREAKER SIZE/TYP	CONN. TYPE (NEMA CONFIG.)	WIRE SCHEDULE	NOTES		
S16	ILLUMINATED CHOICE MARK SIGN	70" ABOVE FINISHED FLOOR	120/1Ø	0.2	20/1P	HARDWIRED	212	-		
S18A	18" HOT FOOD SECTION	18" ABOVE FINISHED FLOOR	120/1Ø	1.8	20/1P GFCI TYPE	5-20	212	-		
S19B	60" COLD PAN	18" ABOVE FINISHED FLOOR	120/1Ø	1.0	20/1P GFCI TYPE	5-20	212	-		
S19C	48" COLD PAN	18" ABOVE FINISHED FLOOR	120/1Ø	1.0	20/1P GFCI TYPE	5-20	212	-		
S27	NU-VU BREAD OVEN	27" ABOVE FINISHED FLOOR	208/3Ø	10.4	30/3P	15-30	38	PROVIDE SHUNT TRIP BREAKER AND CONNECT TO ANSLU SYSTEM.		
S29	DIGITAL MENU BOARD	106" ABOVE FINISHED FLOOR	120/1Ø	0.5	20/1P	5-20	212	-		
S33	60" REFRIGERATED BACK COUNTER	42" ABOVE FINISHED FLOOR	120/1Ø	0.7	20/1P GFCI TYPE	5-20	212	-		
S34	RAPID COOK OVEN	(1) @ 20" ABOVE FINISHED FLOOR. (1) @ 42" ABOVE FINISHED FLOOR	208/1Ø	6.0	30/2P GFCI TYPE	6-30	210	-		
S35	FRESH DISPLAY	42" ABOVE FINISHED FLOOR	120/1Ø	1.2	20/1P GFCI TYPE	5-20	212	-		
S44	DISHWASHER	18" ABOVE FINISHED FLOOR	115/1Ø	1.4	15/1P GFCI TYPE	5-15	212	-		

CONDUIT AND CONDUCTOR SCHEDULE	
CODE	WIRE AND CONDUIT
212	(2)#12, 1#12GND, 3/4"C.
210	(2)#10, 1#10GND, 3/4"C.
38	(3)#8, 1#10GND, 3/4"C.

120V						
Amp Draw	12 AWG	10AWG	8 AWG	6 AWG	4 AWG	2 AWG
Up to 20	48"	72"	115"	183"	292"	463"
21-30	48"	77"	122"	194"	309"	
31-40			57"	91"	146"	232"
41-50			46"	73"	116"	185"
51-60				61"	97"	154"

208V, 1-ph						
Amp Draw	12 AWG	10AWG	8 AWG	6 AWG	4 AWG	2 AWG
Up to 20	78"	125"	200"	317"	506"	804"
21-30		83"	133"	211"	333"	536"
31-40			100"	158"	253"	400"
41-50			80"	127"	202"	321"
51-60				106"	168"	269"

208V, 3-ph												
Amp Draw	12 AWG	10AWG	8 AWG	6 AWG	4 AWG	2 AWG	1 AWG	#10	#8	#6	#4	#2
Up to 20	91"	145"	231"	366"	578"	908"	1476"	1862"	2341"	2962"	3467"	4300"
21-30		98"	154"	244"	385"	590"	954"	1211"	1567"	1975"	2331"	2799"
31-40			113"	177"	292"	441"	684"	891"	1175"	1481"	1748"	2099"
41-50				135"	233"	361"	550"	745"	940"	1185"	1399"	1679"
51-60				100"	194"	307"	460"	600"	783"	987"	1165"	1399"
61-70						260"	421"	532"	671"	846"	999"	1199"
11-60						232"	369"	463"	581"	740"	874"	1049"
81-90						206"	325"	408"	514"	652"	777"	933"
91-100						180"	283"	356"	447"	562"	689"	839"
101-110						158"	247"	312"	398"	497"	606"	736"
121-130						137"	216"	276"	350"	438"	535"	651"
141-150						119"	190"	243"	310"	392"	486"	591"
161-170						103"	167"	215"	278"	355"	444"	549"
176-185						91"	149"	192"	250"	323"	409"	514"
201-225									212"	268"	338"	425"
									233"	296"	349"	419"
									267"	310"	378"	

2 VOLTAGE DROP WIRE MATRIX
SCALE: NTS

"AA" 120/208V, 3Ø, 4W, S.N., 225A, M.L.O.												UPSTREAM DEVICE - 225A		
LOAD TYPE (LABEL)	LOAD (KVA)			CODE	BREAKER	WIRE SIZE	CIRCUIT NUMBER	A B C			LOAD (KVA)	LOAD TYPE (LABEL)		
	A	B	C					A	B	C				
COLD PAN UNIT S19B	1.0			GF	20	12	1				0.2	SUBWAY SIGN S16		
COLD PAN UNIT S19C	1.0			GF	20	12	2				0.2	FRESH DISPLAY S35		
HOT FOOD SECTION S19A	1.8			GF	20	12	5				0.0	SPARE		
NU-VU BREAD OVEN S27	3.5			S	30	8	5				0.7	REFRIG. BACK COUNTER S33		
SHUNT TRIP	0.0						TT				1.0	DIGITAL MENUBOARD S29		
SINK RECEPTACLE	0.2						TT				1.0	DIGITAL MENUBOARD S29		
RAPID COOK OVEN S34	3.0			GF	30	10	10				0.7	RAPID COOK OVEN S34		
DISH WASHER S44	1.4			GF	15	12	21				0.0	SPARE		
SPARE	0.0						23				0.0	SPARE		
SPARE	0.0						25				0.0	SPARE		
SPACE ONLY	0.0						27				0.0	SPACE ONLY		
SPACE ONLY	0.0						29				0.0	SPACE ONLY		
SPACE ONLY	0.0						31				0.0	SPACE ONLY		
SPACE ONLY	0.0						33				0.0	SPACE ONLY		
SPACE ONLY	0.0						35				0.0	SPACE ONLY		
SPACE ONLY	0.0						37				0.0	SPACE ONLY		
SPACE ONLY	0.0						39				0.0	SPACE ONLY		
SPACE ONLY	0.0						41				0.0	SPACE ONLY		
TOTAL CONN. LOAD	32.7 KVA, 90.8 AMPERES									31.4 KVA, 90.8 AMPERES				
PANEL DE-RATING 80%	32.7 KVA, 90.8 AMPERES									31.3 KVA, 90.8 AMPERES				

LOAD SUMMARY - RENOVATION			
HVAC	0.0 KVA	X 100%	0.0 KVA
INTERIOR LIGHTING	0.2 KVA	X 125%	0.3 KVA
EXTERIOR LIGHTING	0.0 KVA	X 100%	0.0 KVA
RELIABLE	0.9 KVA	100% + 50% REMAINING	0.9 KVA
APPLIANCES	24.6 KVA	X 60%	16.0 KVA
EQUIPMENT	0.0 KVA	X 100%	7.0 KVA
SPARES	0.0 KVA	125% LARGEST + 100% REMAINING	0.0 KVA
OTHER	0.0 KVA	X 100%	0.0 KVA
TOTAL CONNECTED	32.7 KVA	LOAD DIVERSITY KVA	24.2 KVA
TOTAL CONNECTED AMPERES:	90.8 AMP	LOAD DIVERSITY AMPS	67.2 AMP

1 EXAMPLE PANELBOARD SCHEDULE
SCALE: NTS

CONDUIT AND CONDUCTOR SCHEDULE

FEEDER	DESCRIPTION
230.4	(4)#4/0, (1)#4 G., IN 2-1/2" C.

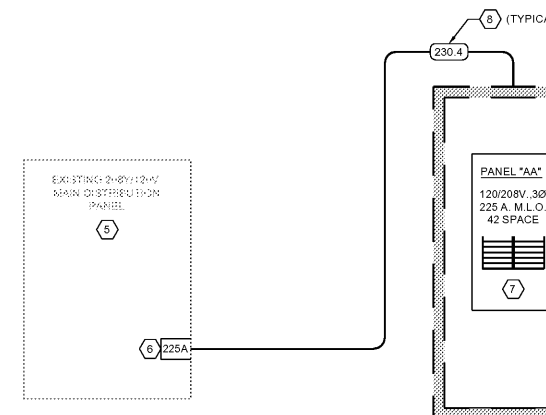
CONDUIT AND CONDUCTOR SCHEDULE NOTES:
 I - ISOLATED GROUND
 V - SIZED FOR VOLTAGE DROP
 S - SEPARATELY DERIVED SYSTEM
 U - UTILITY FEEDER

KEYED NOTES

- CONNECT BRANCH CIRCUITS TO EXISTING SPARE CIRCUIT BREAKERS (INCLUDING BREAKERS MADE SPARE BY DEMOLITION), OR PROVIDE AND CONNECT TO NEW CIRCUIT BREAKERS IN EXISTING SPACES.
- IF THERE ARE NOT ENOUGH EXISTING SPARE CIRCUIT BREAKERS AND/OR BREAKER SPACES, THEN PROVIDE NEW PANELBOARD(S) AND FEEDER(S), COORDINATE PANELBOARD LOCATION(S) WITH OWNER.
- NOT USED.
- ANY NEW PANELBOARDS OR CIRCUIT BREAKERS SHALL MATCH THE AIC RATINGS OF THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM.
- EXISTING ELECTRICAL DISTRIBUTION SYSTEM TO REMAIN IN SERVICE.
- IF NEW PANELBOARD IS REQUIRED, PROVIDE NEW 225A, 3-POLE BREAKER TO FEED NEW PANELBOARD.
- IF NEW PANELBOARD IS REQUIRED, PROVIDE NEW 208Y/120V, 3Ø, 225A, M.L.O. PANEL LABEL AS REQUIRED.
- CONDUCTOR SIZING BASED ON USE OF COPPER CONDUCTORS HAVING AN INSULATION RATING OF 75°C.

CODE NOTES:

- LC- CONTROL WITH LIGHTING CONTACTORS.
- GF- PROVIDE GFCI BREAKER.
- L- PROVIDE LOCK ON DEVI.
- S- PROVIDE SHUNT TRIP BREAKER.
- SW- SWITCHED NEUTRAL COMMON TYPE CIRCUIT BREAKER. ALSO, PROVIDE CIRCUIT BREAKER HANDLE PADLOCK ATTACHMENT.
- P- CIRCUIT BREAKER PADLOCK ATTACHMENT FOR LOCKING BREAKER IN THE "OFF" POSITION.
- HL- PROVIDE HANDLE CLAMP FOR LOCKING CIRCUIT BREAKER IN THE "ON" POSITION.
- HA- PROVIDE HACR TYPE BREAKER.



3 PARTIAL RISER DIAGRAM
SCALE: NTS

TRAVEL CENTER
 PANELBOARD SCHEDULES
 PILOT TRAVEL CENTER
 130 HONDA DRIVE
 LINCOLN, AL 35096

DATE	REV	DESCRIPTION	INT.
DATE 02-16-18	1	PROJECT 497 - 1829	
		REVISION DESCRIPTION	

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