

CIRCUIT NO.	GRND WIRE SIZE	# WIRES & SIZE	A&E NO.	LOAD DESCRIPTION	LOAD	WATTS			TRIP AMPS	TRIP PHASE	TRIP POLE	TRIP AMPS	WATTS			LOAD DESCRIPTION	A&E NO.	# WIRES & SIZE	GRND WIRE SIZE	CIRCUIT NO.
						A	B	C					A	B	C					
D-1	#12	3 #12	W-053	WALK-IN COOLER	M	1621			20	A	1	20			0				D-2	
D-3	-	-	-	-	M	1621				B	1	20			0				D-4	
D-5	-	-	-	-	M		1621			C	1	20			0				D-6	
D-7	#10	3 #10	W-053	WALK-IN FREEZER	M	1321			15	A	2	20*	500						D-8	
D-9	-	-	-	-	M		1321			B	2	20*		264					D-10	
D-11	-	-	-	-	M		1321			C	3	20*			1306				D-12	
D-13	-	-	-	SPARE	-	0			20	1	A	2			1306				D-14	
D-15	-	-	-	SPARE	-	0			20	1	B	2			1306				D-16	
D-17	-	-	-	SPARE	-				20	1	C	2			1306				D-18	
D-19	#12	2 #12	N-043	POWER SOAK	K	1169			15*	A	1	15*	700						D-20	
D-21	-	-	-	-	K	1169				B	2			0					D-22	
D-23	#12	2 #12	E-275	HOOD FIRE SUPPRESSION SYSTEM (1)	M					C	1			0					D-24	
D-25	#12	2 #12	-	IRRIGATION TIMER	M	360			20*	A	1	20*	1800						D-26	
D-27	#12	2 #12	-	ROOF RECEPTACLES	M		540			B	2			1180					D-28	
D-29	#12	2 #12	B-223	WATER HEATER IGNITION	M		180		20*	A	1			0					D-30	
D-31	#8	3 #4	-	RTU-1	H	5122			60	B	1	20*							D-32	
D-33	-	-	-	-	H		5122			C	2	20*		540					D-34	
D-35	-	-	-	-	H		5122			3	C			0					D-36	
D-37	#8	3 #3	-	RTU-2	H	8880			80	A	2	20*	1120						D-38	
D-39	-	-	-	-	H		8880			B	2	30*		3120					D-40	
D-41	-	-	-	-	H		8880			C	2			3120					D-42	
						18473	18653	17844					5426	6410	5732					

WATTS: BUS A 23899
 BUS B 25063
 BUS C 23576
 TOTAL 72538

HVAC EQUIPMENT = 43886 W
 KITCHEN EQUIPMENT = 5576 W
 OTHER LOADS (MISC.) = 20074 W
 LIGHTING = 0 x 1.25 = 0 W
 TOTAL LOAD = 69536 W
 TOTAL CURRENT = 193 A

PANEL D ELECTRICAL DATA 120/208V PANEL TYPE NQOD
 MOUNTING FLUSH MAINS 400A M.L.O. PHASE 3Ø 4W
 NEUTRAL BUS AMPACITY 400A GROUND BUS AMPACITY 225A
 A.I.C. RATING 65KAIC SERIES RATED UTILIZING 22KAIC CIRCUIT BREAKERS

NOTE: *- PROVIDE GFCI CIRCUIT BREAKERS FOR ALL EQUIPMENT BELOW 3'-6" AFF.

CIRCUIT NO.	GRND WIRE SIZE	# WIRES & SIZE	A&E NO.	LOAD DESCRIPTION	LOAD	WATTS			TRIP AMPS	TRIP PHASE	TRIP POLE	TRIP AMPS	WATTS			LOAD DESCRIPTION	A&E NO.	# WIRES & SIZE	GRND WIRE SIZE	CIRCUIT NO.
						A	B	C					A	B	C					
A-1	#12	2 #12	S-285	BEVERAGE DISPENSER D/T	K	420			20*	A	1	20*	1780			K	S-546	2 #12	#12	A-2
A-3	#12	2 #12	S-284	BEVERAGE DISPENSER S/S	K	480			20*	B	1	20*	1200			M	F-171	2 #12	#12	A-4
A-5	#12	2 #12	R-009	FULL HEIGHT FREEZER	K			1080	20	C	1	20*		360		M	S-570	2 #12	#12	A-6
A-7	-	-	-	SHUNT TRIP BREAKER	-				20	A	2	20*	864			K	U-100	2 #12	#12	A-8
A-9	#10	2 #10	P-452	HOT WATER DISPENSER	K			2013	30*	B	2	20*	1200			M	U-100	2 #12	#12	A-10
A-11	-	-	-	-	K			2013		C	2		0			-	-	-	A-12	
A-13	#12	2 #12	S-005	HEATED CABINET	K	1920			20*	A	2	20*	600			M	U-035	2 #12	#12	A-14
A-15	#12	2 #12	F-040	OFFICE COMPUTER	M		300		20*	B	2	20*	1200			M	U-100	2 #12	#12	A-16
A-17	#12	2 #12	U-052	OFFICE SECURITY SYSTEM (1)	M		300		20*	C	2	20*	360			M	U-024	2 #12	#12	A-18
A-19	#12	2 #12	-	OFFICE RECEPTACLES	M	540			20*	A	2	20*	864			K	U-024	2 #12	#12	A-20
A-21	#12	2 #12	L-090	ORDER CONFIRMATION BOARD/SWITCH BOX	M		130		20*	B	2	20*	480			M	C-107	2 #12	#12	A-22
A-23	#12	2 #12	-	SPACE	M		0		20*	C	2	20*	360			K	-	-	-	A-24
A-25	#12	2 #12	S-540	PEPSI BOOSTER TANK/CO2 MONITOR	M	540			20*	A	1					-	-	-	A-26	
A-27	-	-	-	SPACE	-	0				B	2	20*	420			M	C-400	2 #12	#12	A-28
A-29	-	-	-	SPACE	-	0				C	2					-	-	-	A-30	
A-31	-	-	-	SPACE	-	0			20	A	2	20*	180			M	U-238	2 #12	#12	A-32
A-33	-	-	-	SPACE	-	0			20	B	2	20*	864			M	S-204	2 #12	#12	A-34
A-35	#10	2 #10	P-452	HOT WATER DISPENSER	K			2013	30*	C	1	15*	1425			K	S-547	2 #12	#12	A-36
A-37	-	-	-	-	K	2013				A	2					-	-	-	A-38	
A-39	-	-	-	SPACE	-	0			20	B	2	20*	816			K	C-046	2 #12	#12	A-40
A-41	#12	2 #12	S-004	HEATED CABINET	K			1920	20*	C	2					-	-	-	A-42	
						5433	2923	7326					4288	6180	2505					

WATTS: BUS A 9721
 BUS B 9103
 BUS C 9831
 TOTAL 28655

KITCHEN EQUIPMENT = 19981 x .65 = 12988 W
 OTHER LOADS (MISC.) = 8674 W
 TOTAL LOAD = 21662 W
 TOTAL CURRENT = 60 A

PANEL A ELECTRICAL DATA 120/208V PANEL TYPE NQOD
 MOUNTING FLUSH MAINS 225A M.L.O. PHASE 3Ø 4W
 NEUTRAL BUS AMPACITY 225A GROUND BUS AMPACITY 225A
 A.I.C. RATING 65KAIC SERIES RATED UTILIZING 10KAIC CIRCUIT BREAKERS

NOTE: *- PROVIDE GFCI CIRCUIT BREAKERS FOR ALL EQUIPMENT BELOW 3'-6" AFF.

PANEL D

KITCHEN EQUIPMENT PANEL A

CIRCUIT NO.	GRND WIRE SIZE	# WIRES & SIZE	A&E NO.	LOAD DESCRIPTION	LOAD	WATTS			TRIP AMPS	TRIP PHASE	TRIP POLE	TRIP AMPS	WATTS			LOAD DESCRIPTION	A&E NO.	# WIRES & SIZE	GRND WIRE SIZE	CIRCUIT NO.
						A	B	C					A	B	C					
B-1	#12	2 #12	-	KITCHEN LIGHTS (5)	L	480			20	1	A	1	20	0					B-2	
B-3	-	-	-	SPACE	H	0			20	1	B	1	20	360					B-4	
B-5	#12	2 #12	-	COOLER/FREEZER LIGHTS (5)	L			800	20	1	C	1	20	0					B-6	
B-7	-	-	-	SPACE	M	0			20	1	A	1	20	1076					B-8	
B-9	#10	2 #10	-	OUTSIDE LIGHTS (2)	L			658	20	1	B	-	0						B-10	
B-11	-	-	-	SPACE	-			0	20	1	C	-	0						B-12	
B-13	-	-	-	SPACE	-	0			20	1	A	-	0						B-14	
B-15	#10	2 #10	-	MENU BOARD @ D/T (2)	L			500	20	1	B	1	20	0					B-16	
B-17	-	-	-	SPACE	-			0	20	1	C	1	20	1300					B-18	
B-19	#12	2 #12	-	SHOW WINDOW	L	1200			20	1	A	1	20	1500					B-20	
B-21	#12	2 #12	-	SHOW WINDOW	L		1200		20	1	B	1	20	1500					B-22	
B-23	#12	2 #12	-	SHOW WINDOW	L			1200	20	1	C	-	0						B-24	
B-25	#12	2 #12	-	SHOW WINDOW	L	1200			20	1	A	-	0						B-26	
B-27	#10	2 #10	-	BUILDING SIGNS (2)	L			1200	20	1	B	1	20	0					B-28	
B-29	#10	2 #10	-	PYLON SIGN (2)	L			1200	20	1	C	1	20	0					B-30	
B-31	#10	2 #10	-	DIRECTIONAL SIGNS (2) OPTIONAL	L	1200			20	1	A	-	0						B-32	
B-33	#12	2 #12	-	LIGHTING CONTROLS (1)	M			500	20	1	B	-	0						B-34	
B-35	#10	2 #10	-	BUILDING SIGNS (2)	L			360	20	1	C	-	0						B-36	
B-37	-	-	-	SPACE	-	0			20	1	A	-	0						B-38	
B-39	-	-	-	SPACE	-	0			20	1	B	-	0						B-40	
B-41	#10	2 #10	-	BUILDING SIGNS (2)	L			1200	20	1	C	-	0						B-42	
						4080	4058	4760					2576	1860	1300					

NOT USED H

WATTS: BUS A 6656
 BUS B 5918
 BUS C 6060
 TOTAL 18634

LIGHTING = 18134 x 1.25 = 22668 W
 OTHER LOADS (MISC.) = 500 W
 TOTAL LOAD = 23168 W
 TOTAL CURRENT = 64 A

PANEL B ELECTRICAL DATA 120/208V PANEL TYPE NQOD
 MOUNTING FLUSH MAINS 225A M.L.O. PHASE 3Ø 4W
 NEUTRAL BUS AMPACITY 225A GROUND BUS AMPACITY 225A
 A.I.C. RATING 65KAIC SERIES RATED UTILIZING 10KAIC CIRCUIT BREAKERS

NOTE: *- PROVIDE GFCI CIRCUIT BREAKERS FOR ALL EQUIPMENT BELOW 3'-6" AFF.

LIGHTING PANEL B

PANEL	LIGHTING (W) **	KITCHEN EQUIP. (W) ***	HVAC (W)	MISCELLANEOUS (W)	CONNECTED LOAD	DEMAND LOAD (W)
A	-	12988	-	8674	28655	21662
B	18134	-	-	500	18634	23168
EQUIP. CABINET	-	47664	-	2400	50064	33382
D	-	* 5576	43886	20074	72538	69536
TOTAL	18134	66228	43886	31648	169891	147748

* 8570 x 0.65 = 5576

147748W @ 120/208V, 3Ø-4W = 410 A
 LARGEST MOTOR LOAD = 2379 W

LOAD KEY LEGEND		APPLICABLE FACTOR
L	LIGHTING	125% **
K	KITCHEN EQUIPMENT	65% ***
H	HVAC	100%
M	MISC. EQUIPMENT	100%

***KITCHEN EQUIPMENT DEMAND FACTORS PER NEC 2011 SECTION 220.56 ALLOWS FOR PERCENTAGES WITHIN EACH PANEL ACCORDING TO THE FOLLOWING EQUIPMENT QUANTITIES:
 1 - 100%; 2 - 100%; 3 - 90%; 4 - 80%; 5 - 70%; 6 AND OVER - 65%. THESE PERCENTAGES DO NOT CARRY OVER INTO THE LOAD SUMMARY, WHICH IS CALCULATED AT 65% REGARDLESS.

LOAD SUMMARY & LEGEND

GENERAL NOTE:
 LIGHTING CIRCUITS INSIDE THE BUILDING SHALL BE WIRED THRU LIGHTING CONTACTORS. REFER TO DETAILS ON SHEET E6.0.

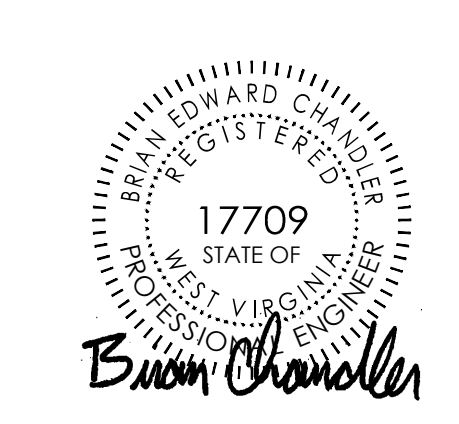
KEY NOTES:
 (1) PROVIDE LOCK-ON BREAKER.
 (2) CIRCUITS TO BE WIRED THRU EXTERIOR LIGHTING CONTROL RELAY. SEE DETAIL 4/E6.0.
 (3) FOR PARKING LOT LIGHTS AND OUTSIDE SIGNS: PROVIDE (5) 3/4" C FROM PANEL 'B' AND STUB OUT 10'-0" AWAY FROM THE BUILDING. VERIFY EXACT LOCATION OF STUB PRIOR TO ROUGH-IN. LOADS MAY VARY WITH LOCATION - VERIFY. VERIFY OUTDOOR VOLTAGE DROP FOR ALL PARKING LIGHTING CIRCUITS.
 (4) CIRCUITS TO BE WIRED THRU THE LIGHTING CONTROL RELAY AND SWITCH a. SEE DETAIL 2/E6.0.
 (5) CIRCUITS TO BE WIRED THRU THE LIGHTING CONTROL RELAY AND SWITCH b. SEE DETAIL 2/E6.0.

NOT USED C

GENERAL NOTES & KEY NOTES

kathleen day, architect
 8535 ferry road
 waynesville, oh 45068
 617.331.2545
 kathleendayarchitect@gmail.com

ENGINEER:
BRIAN EDWARD CHANDLER, PE
 1431 GREENWAY DRIVE
 SUITE 510
 IRVING, TX 75038
 PHONE: 972.870.1288
 E-MAIL: bchandler@idstudio4.com

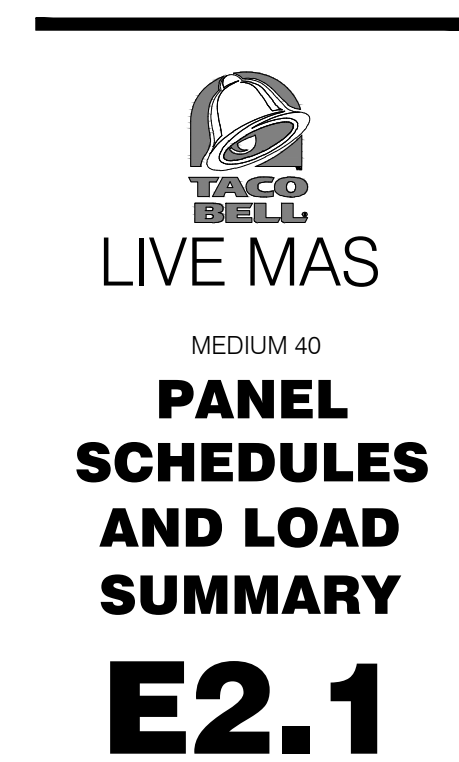


05.20.16

ZONING COMMENTS 05.20.16

CONTRACT DATE: 11.05.15
 BUILDING TYPE: LIVE MAS-Medium 40
 PLAN VERSION: REV P ~ NOV '15
 SITE NUMBER:
 STORE NUMBER:

TACO BELL
 770 National Road
 Wheeling, WV 26003



PERMIT PLOT DATE: