Ŧ	PANEL MOB ELEC	TRICAL LOAD CALC	ULATIONS	
LOAD TYPE	CONNECTED	FACTOR	DEMAND	CODE REF
LIGHTING	10569	1.25	13211.25	215.3
RECEPTACLES (1ST 10K)	10000	1.00	10000	220.44
ADD'L RECEPTACLES	1306	0.50	653	215.3
HEATING	3500	0.00	0	215.3
COOLING	44313	1.00	44313	220.5
WATER HEATER	1000	1.25	1250	422.13
SIGNAGE	4250	1.25	5312.5	215.3
KITCHEN EQUIP	41926	0.65	27251.9	220.56
MISC	60972	1.00	60972	215.3
TOTAL VA	177,836		162,964	
AMPS @	208 VOLT	3 0 =	452.34	AMPS

	EXIST	PANEL: B	VOLT	5: 120/	⁄208∨	PH:	зΦ	MIRE:	4M	LOCAT	ON:	OFFIC	E		MOUNTING:	FLUSH	
		BUS: 100A	MAIN:	100A	MLO			·		·					FEEDER:	SEE RISER DIAGR	AM
	CKT	DESCRIPTION	AMPS	POLE	WRE	ΦΑ	ФВ	ΦC	ΦΑ	ФВ	ФС	WIRE	POLE	AMPS	DES	CRIPTION	CKT NO
	1	LTG - KITCHEN [LC]	20	1	12	765			500			12	1	20	PARKING	LOT LIGHTS [EX]	2
	з	N-146 BATHROOM FAUCETS	20	1	12		200			500		12	1	20	PARKING	LOT LIGHTS [EX]	4
	5	LTG - COOLER & FREEZER [LC]	20	1	12			800			500	12	2	20	PARKIN	S LOT LIGHTS	6
ŀ	Т	SPARE	20	1					500			1				[EX]	8
4	٩	LTG - EXTERIOR LIGHTS [LC]	20	1	12		800			500		10	2	20	PARKIN	S LOT LIGHTS	10
	11	SPARE	20	1							500	1				[EX]	12
	13	SPARE	20	1					500			12	2	20	PARKIN	S LOT LIGHTS	14
2	15	SPARE [LC]	20	1	12					500		1				[EX]	16
	17	5-286 WATER FILTER SYS	20	1	12			240			130	12	1	20	5-240 ORDE	R CONFIRM BOARD	18
4	19	SPARE	20	1					1,200			12	1	20	LTG - BI	_DG SIGN [LC]	20
4	21	LTG - SHOW WINDOW [LC]	20	1	12		600			1,000		12	1	20	LTG - MENU, C	ORDER CANOPY [LC]	22
4	23	LTG - SHOW WINDOW [LC]	20	1	12			800			410	10	1	20	LTG - PY	LON SIGN [LC]	24
5	25	LTG - SHOW WINDOW [LC]	20	1	12	600			1,200			12	1	20	LTG - BI	_DG SIGN [LC]	26
5	27	SPARE	20	1						1,440		12	1	20	LTG - BI	_DG SIGN [LC]	28
5	29	SPARE	20	1	10								1	20	9	SPARE	30
5	31	LTG - CLEARANCE BAR [LC]	20	1	10	500											32
5	33	SPARE	20	1								1	з	20	5	SPARE	34
5	35	SPARE	20	1								1					36
5	37	SPARE	20	1													38
5	39	LTG - DINING ROOM [LC]	20	1	10		704					1	З	20		SPARE	40
5	41	U-063 OFFICE SECURITY	20	1	10			100				1					42
	NOTES	ð:	1		1	1,865	2,304	1,940	3,900	3,940	1,540	1	1	1	1		4
	[LC] -	ROUTED THRU LIGHTING CONT	ROLS			5,	165	6,:	244	3,4	80	1 1	TOTAL	CONNE	CTED LOAD:	15,489	VA
	INCLUI	DE WITH FEED THRU LUGS, [EX]	-EXISTI	NG BR	<r< td=""><td></td><td></td><td>I</td><td></td><td>1</td><td></td><td></td><td>N</td><td>IEC DEN</td><td>MAND LOAD:</td><td>19,194</td><td>VA</td></r<>			I		1			N	IEC DEN	MAND LOAD:	19,194	VA
		BEL THIS PANEL (LA) AS "B", I				FBREA	KFRG				DEN		MPS m	208	VOLT / 3Φ:	53.28	

	EXIST	PANEL: D	VOLT	5: 120/	208∨	PH:	зΦ	MIRE:	4 N	LOCATI	ON:	OFFIC	E		MOUNTING:	FLUSH		
		BUS: 400A	MAIN:	400A	MLO			·		•					FEEDER:	SEE RISER DIAGR	AM	
	CKT	DESCRIPTION	AMPS	POLE	WRE	ΦΑ	ФВ	ФС	ΦΑ	ФВ	ФС	WIRE	POLE	AMPS	DES	CRIPTION	CKT NO	
-	1					1,620			700			12	1	20	HEAT	TRACE [GP]	2	
5	З	W-059-1 WALK-IN COOLER	20	з	12		1,620			1,400		12	1	20	HEAT	TRACE [GP]	4	
	5							1,620			1,400	12	1	20	HEAT	TRACE [GP]	6	
	٦					1,320			500			12	1	15	F-131 MUSIC	SYSTEM (MUZAK)	8	
5	٩	M-059-2 WALK-IN FREEZER	20	З	12		1,320			260		12	1	20	5-513 ICE N	1AKER 5/5 \$ D/Y	10	
	11							1,320			1,000	12	2	20	9-513 ICE M	AKER CONDENSER	12	
	13	HUB TABLE RECS	20	1	12	540			1,000								14	
	15	HUB TABLE KIOSK	20	1	12		500			1,000		12	2	20	5-513 ICE M	AKER CONDENSER	16	,
	17	SPARE	20	1							1,000						18	
5	19	N-043 POWER SOAK	15	2	12	1,186			660			12	1	15	EXHAUS	DT FAN (EF-2)	20	
2	21						1,186			1,250		12	2	15	5-740 FRC	DZEN BEVERAGE	22	
5	23	E-107 HOOD FIRE SUPP SYS [HL]	20	1	12			760			1,250				DISPENSE	ER CONDENSER	24	
5	25	IRRIGATION TIMER	20	1	12	360			180			12	1	20	UTIL	ITY RECS	26	E.
5	27	ROOF RECS	20	1	12		360			1,120		12	1	20	E-107 HOOD	EXHAUST FAN (EF-1)	28	<u>ka</u>
	29	BUSSED SPACE									720	12	1	20	UTILIT	Y RECS [GF]	30	
	31								6,245								32	
	33	SPARE	30	З						6,245		6	з	60		RTU-1	34	
	35										6,245				RE-US	E EXISTING]	36	
	37					8,526			1,120			12	1	20	F-050 & U-061 0	CC ROUTER/READER [GF]	38	
5	39	RTU - 2	80	з	4		8,526			2,500		10	2	30	5-739 FRC	ZEN BEVARAGE	40	C
	41							8,526			2,500				DIS	SPENSER	42	
1	NOTES	5:				13,552	13,512	12,226	10,405	13,775	14,115							
	HL]-H,	ANDLE LOCK, [GF]-GFCI BRKI	R			23,9	157	27,	287	26,	341	1	TOTAL	CONNE	CTED LOAD:	77,585	VA	
I	GP] -	GFEP BRKR											N	EC DEN	MAND LOAD:	66,882	VA	
i	RE-LA	BEL THIS PANEL (PC) AS "D",	PROVI	DE COM	IPATIBI	E BREA	<ers< td=""><td></td><td></td><td></td><td>DEM</td><td>IAND A</td><td>MPS @</td><td>208</td><td>VOLT / ЗФ:</td><td>185.65</td><td>A</td><td></td></ers<>				DEM	IAND A	MPS @	208	VOLT / ЗФ:	185.65	A	

EXIS	EXIST PANEL: MSB VOL		120/208V	PH:	ЗФ	MIRE:	4M	LOCATION EXTERIOR
	BUS: 600A					FEEDER: SEE RISER DIAGRAM		
CKT NO	DESCR	FRAME	POLE	TRIP	KVA LOAD	FEEDER SIZE:		
1	PANELBOA		З	150	33.3	4-#1/0, 1-#6G, 1-1/2"C		
2	PANELBOA		з	200	15.5	4 - #3/0, 1-#66, 2"C		
з	EVO-DUAL-LINE EQU	PMENT CAB	INET [EX]		з	200	51.5	4 - #3/0, 1-#6G, 2"C
4	PANELBOA	RD "D" [EX]			з	400	77.6	TWO SETS 4-#3/0, 1-#3G, 2"C EACH
5	BUSSED SPACE (VERFIY)							
6	BUSSED SPACE (VERIFY)							
NOTES	b:				•	•		

EXISTING NEMA 3R - SERVICE ENTRANCE

VERIFY EXISTING CONDITIONS - ORDER / SIZE OF BREAKERS MAY BE DIFFE PROVIDE NEW SCHEDULE WITH UPDATED PANEL NAMES AS INDICATED ABOV

NOTE TO CONTR, ALL CONTRACTORS PRIOR TO BID SUBMISS

VISIT PROPOSED WORK SITE AND FIELD VE CONDITIONS. ANY CONDITIOON THAT DIFFE THESE PLANS SHALL BE REPORTED TO THE TENANT'S ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATIONS TO THE SCOPE OF WORK WHICH RESULTS FROM THE CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO SUBMITTING BID, SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY.

EXIS	OT PANEL: A	VOLT	5: 120/	208√	PH:	ЗΦ	WIRE:	4M	LOCAT	ION:	OFFIC	E		MOUNTING: FLU	SH	
	BUS: 225A	MAIN:	225A	MLO										FEEDER: SEE	RISER DIAGR	.AM
CKT	DESCRIPTION	AMPS	POLE	WIRE	ΦΑ	ФВ	ФС	ΦΑ	ФВ	ФС	WRE	POLE	AMPS	DESCRI	PTION	CKT NO
1	5-285 BEVERAGE DISPENSER D/T [GF]	20	1	12	1,296			1,780			12	1	20	S-546 ICE TEA	EQUIPMENT	2
з	5-284 BEVERAGE DISPENSER (SS) [GF]	20	1	12		1,116			1,200		12	1	20	U-100 & U-070 POS ()	2) PRINT RECS [GF]	4
5	R-207 FULL HEIGHT FREEZER [GF]	20	1	12			1,080			360	12	1	20	F-174 SAFE W/ TOUC	CH SCR CTRL [GF]	6
٦	SPARE	20	1		0			860			12	1	20	S-570 CARBO	NATOR [GF]	8
Я	P-452 HOT WATER DISPENSER	30	2	10		2,039			960		12	1	20	F-090, U-061, U-070 UP5 (:	2) PRINT, CC READ [GF]	10
11							2, <i>0</i> 39				12	1	20	SPARE	[GF]	12
13	5-027 HEATED CABINET	20	1	12	1,920			240			12	1	20	F-080 OFFICE PR	RINTER/COPIER	14
15	F-040 OFFICE COMPUTER	20	1	12		300			1,200		12	1	20	U-100 ∉ F-090 F	205 & UPS [GF]	16
17	U-052 SECURITY SYSTEM [HL]	20	1	12			360			96	12	1	20	C-400 & P-417	TIMERS [GF]	18
19	RECEPTACLES OFFICE	20	1	12	540			860			12	1	20	S-570 CARBO	NATOR [GF]	20
21	5-240 ORDER CONFIRM BRD	20	1	12		130			240		12	1	20	U-011 BASE STATIC	ON D/T COM [GF]	22
23	U-054 CCTV AND MONITOR [GF]	20	1	12			360			240	12	1	20	C-107 RETHRMA	LIZER [DF] [ST]	24
25	5-540 PEPSI B-TANK / B-381 CO2 [GF]	20	1	12	576									(SHUNT TRI	P SPACE)	26
27	HAND DRYER	20	1	12		1,000			1,080		12	1	20	L-043 MENU BOARD	& REMOTE ALARM	28
29	HAND DRYER	20	1	12			1,000					1	20	SPA	RE	30
31	TANKLESS WATER HEATER	20	1	12	500			180			12	1	20	U-238 KITCHEN MO	ONITOR - IG [GF]	32
33	TANKLESS WATER HEATER	20	1	12		500			860		12	1	20	5-204 D/T TIMIN	G SYSTEM [GF]	34
35	P-452 HOT WATER DISPENSER	30	2	10			2, <i>0</i> 39			1,430	12	1	20	5-547 BUN P E	BREWER [GF]	36
37					2,039							1	20	SPA	RE	38
39	SPARE [GF]	20	1						972		12	1	20	C-026 DUAL VAT	FYER [DF] [ST]	40
41	5-026 HEATED CABINET [GF]	20	1	12			1,920							(SHUNT TRI	P SPACE)	42
NOTE	ES:				6,871	5,085	8,798	3,920	6,512	2,126						
[GF]-	-5MA GFCI BRKR, [HL]-HANDLE	LOCK			10,	791	11,9	597	10,	924	Ī	TOTAL	CONNE	CTED LOAD:	33,312	VA
[DF]-	ROUTED THRU DEAD-FRONT GF	CI DE	/ICE-DE	TAIL 12	/E7.0, [9	T]-SHUN	T TRIP B	RKR, [GI	F]-GFCI I	BRKR		N	EC DEN	AND LOAD:	26,091	VA

GENERAL NOTE:

LIGHTING CIRCUITS INSIDE THE BUILDING SHALL BE WIRED THRU LIGHTING CONTACTORS. REFER TO DETAILS ON SHEETS E6.0 THROUGH E6.4. KEY NOTES:

- 1 REPLACE EXISTING BREAKER AND PROVIDE COMPATIBLE LOCK-ON BREAKER.
- 2 CIRCUITS TO BE WIRED THRU EXTERIOR LIGHTING CONTROL RELAY. SEE SHEFTS E60 THROUGH E64 SHEETS E6.0 THROUGH E6.4.
- 3 FOR PARKING LOT LIGHTS AND OUTSIDE SIGNS: PROVIDE (5) 3/4"C FROM PANEL AND STUB OUT 10'-0" AWAY FROM THE BUILDING. VERIFY EXACT LOCATION OF ST 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. SEE SHEETS E6.0 THROUGH E6.4.
- 5 REMOVE EXISTING BREAKER, PROVIDE COMPATIBLE BREAKER AS INDICATED. A OTHER BREAKERS NOT MARKED WITH NOTES #1 OR #5 ARE EXISTING BREAKERS AND ARE TO REMAIN.

EL "B" " STVB	
ALL 25	
	BC PROJECT #: 20317 MISSOURI PE COA #2009003629
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5720 Reeder Shawnee, Ks. 66203 (913)262-1772

FERENT		NE	EC DEI	MAND LOAD:	
VE	DEMAND AM	1P5 @	208	VOLT / 3Φ	
RACTORS					
SSION PROCESS SHA /ERIFY ALL EXISTING ERS FROM THAT SHO HE TENANTS					

TOTAL CONNECTED LOAD:

177.8 KVA

163.0 KVA

452.34 AMPS

GLMV AF
6/5/2020 6/5/2020 0F MS LONNIE J. HOMPSON NUMBER PE-23541
CONTRACT DATE: 06.01.2020 BUILDING TYPE: CONVERSION PLAN VERSION: ENDEAVOR BRAND DESIGNER: X.XXXXX SITE NUMBER: 314544 STORE NUMBER: TACO BELL 4132 MILLER ST BETHANY, MO
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E2.1

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