	LIGHTING SYMBOLS		RECEPTACLE SYMBOLS		ELECTRICAL SYMBOLS		SINGLE LINE DIAGRAM SYMBOLS	GROUND CONNECTION	
	TYPICAL LUMINAIRE DESIGNATIONS		TYPICAL RECEPTACLE CIRCUIT DESIGNATION	AV	RECESSED WALL BOX WITH AUDIO/VISUAL / DATA / POWER RECEPTACLES.	$\langle \leftarrow \Box \rightarrow \rangle$	DRAWOUT CIRCUIT BREAKER OVER 600V	THERMAL OVERLOADS	
(F1) RP5-7 SCH DES	(F1) INDICATES LUMINAIRE TYPE. REFER TO LUMINAIRE SCHEDULE FOR DESCRIPTION. (RP5) INDICATES PANEL DESIGNATION, (7) INDICATES CIRCUIT BREAKER NUMBER.	⊖ =	(RP5) INDICATES PANEL DESIGNATION, (7) INDICATES CIRCUIT BREAKER NUMBER. PROVIDE 20A/1P AND 2#12 FOR EACH	$\mathbb{P}\mathbb{A}$	RECESSED FLOOR BOX WITH POWER AND COMMUNICATION RECEPTACLES.	$\langle \leftarrow \frown \rightarrow \rangle$	DRAWOUT CIRCUIT BREAKER		
	(a) INDICATES SWITCHING CIRCUIT ID.	RP5:7	CIRCUIT NUMBER & 1#12G, IN 3/4 " CONDUIT, UNLESS OTHERWISE NOTED OR SCHEDULED.		RECESSED FLOOR BOX WITH POWER, COMMUNICATION AND AUDIO/VISUAL RECEPTACLES.	$\langle \leftarrow \Box D \rightarrow \rangle$	DRAWOUT FUSES		ms consultant engineers, architects,
2'X4' L	(4' LUMINAIRE	€	DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R	AV	HARD-WIRED CONNECTION		CIRCUIT BREAKER	SPD SURGE PROTECTION DEVICE	2221 Schrock Road Columbus, Ohio 43
Э. — — — — — — — — — — — — — — — — — — —			5-20R UNDER COUNTER, DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W,		JUNCTION BOX; WHIP TO BE HARDWIRED TO FURNITURE WIRING SYSTEM			AM AMMETER	p 614.898.7100 f 614.898.7570 www.msconsultants
	ALL MOUNTED LUMINAIRE		DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R,		PANELBOARD		DISCONNECT SWITCH	ANIMETER AS AMMETER SWITCH	
			(GROUND FAULT CIRCUIT INTERRUPTER) DUPLEX RECEPTACLE, 125V, 20A, 2P, 3W, NEMA 5-20R,		DISTRIBUTION/POWER PANEL	$ \begin{array}{c} \Box $	FUSED DRAWOUT CIRCUIT BREAKER	MMETER SWITCH VM VOLTMETER	
CE,	EILING MOUNTED LUMINAIRE	₩P ⊕=	(GROUND FAULT CIRCUIT INTERRUPTER WITH IN USE COVER) SINGLE RECEPTACLE, 125V, 20A, 2P, 3W, NEMA					VM VOLIMETER VS VOLTMETER SWITCH	
ULILIN		<u>+</u>	5-20R		MOTOR CONNECTION		FUSE		
	DUSTRIAL TYPE LUMINAIRE	L C	SINGLE RECEPTACLE, 123V, 20A, 2P, 3W, NEIMA 5-15R QUADRAPLEX RECEPTACLE, 125V, 20A, 2P, 3W	\$	SINGLE POLE SWITCH, 20A, 120-277VAC		CONTACT	WM WATTMETER (KWH) KILOWATT-HOUR METER WITH 15 MIN.	
			UNDER COUNTER, ISOLATED GROUND RECEPTACLE, 125V, 20A, 2P, 3W		"X" REFER TO SWITCH NOTES		SEE RELAY SCHEDULE ON COVER SHEET 2.	DEMAND REGISTER	5 0 -
) () PEND/ 0	ENDANT MOUNTED LUMINAIRE		NEMA 5-20R		DISCONNECT SWITCH	$\bigcap \bigcap \bigcap$	POWER TRANSFORMER WITH VOLTAGES AS INDICATED	KILOVAR HOUR METER	
		*=	DUPLEX RECEPTACLE, MOUNTED 6" (0.15m) ABOVE COUNTER OR BACKSPLASH,125V, 20A, 2P, 3W, NEMA 5-20R		FUSED DISCONNECT SWITCH		SHIELDED K RATED POWER TRANSFORMER WITH VOLTAGES AS INDICATED	PF POWER FACTOR METER	····································
	JMINAIRE POWERED BY EMERGENCY SOURCE (TYPICAL)	FPD =	DUPLEX RECEPTACLE, MOUNTED FOR FLAT PANEL DISPLAY; MOUNT AT APPROXIMATELY 66"; COORDINATE EXACT HEIGHT DISPLAY		COMBINATION MAGNETIC MOTOR STARTER	$\overbrace{\langle \longleftrightarrow \\ \mathfrak{S}} $	DRAWOUT CIRCUIT BREAKER, ELECTRIC OPERATED.	TB TERMINAL BLOCK	žΣ
		↔	SPECIAL PURPOSE RECEPTACLE, COORDINATE NEMA CONFIGURATION WITH EQUPMENT	СВ	ENCLOSED CIRCUIT BREAKER	— E	CIRCUIT BREAKER, ELECTRIC OPERATED.	CS CONTROL SWITCH	N A C
	IMINAIRE, POLE MOUNTED	⊜	CEILING MOUNTED DUPLEX RECEPTACLE, 120V, 20A, 2P, 3W, NEMA 5-20R	VFD	VARIABLE FREQUENCY DRIVE		FUSED DISCONNECT SWITCH, ELECTRIC OPERATED.	M MULTIFUNCTION METER AS SPECIFIED.	
LUM	IMINAIRE, BALLARD	PRJ 🖨	CEILING MOUNTED DUPLEX RECEPTACLE, 120V, 20A, FOR PROJECTOR. COORDINATE WITH EQUPMENT		EMERGENCY POWER OFF			BATTERY	E'S
LUMIN	IMINAIRE, FLOOD LIGHT		BENCH TOP PEDESTAL OUTLET, SINGLE FACE, RECEPTACLE TYPE AS INDICATED	T1	TRANSFORMER, (SEE TRANSFORMER SCHEDULE ON COVER SHEET 2)	— 	CURRENT TRANSFORMER, QUANTITY AND RATIO	A FEEDER CONNECTION REFERENCE	
WALL	ALL MOUNTED EXIT SIGN, SHADED AREAS INDICATE NUMBER OF FACES,		BENCH TOP PEDESTAL OUTLET, DOUBLE FACE, RECEPTACLE TYPE AS INDICATED	•	ONE PUSHBUTTON STATION	400/5 3	AS INDICATED.	COMMUNICATION SYMBOLS	
	RECTION ARROWS AS INDICATED	P•		•	START STOP PUSHBUTTON	50/5	GROUND CURRENT, ZERO SEQUENCE TYPE TRANSFORMER. RATIO AS INDICATED.	DATA OUTLET BOX WITH (TWO) (FOUR) (SIX) JACKS DOUBLE GANG BOX WITH SINGLE GANG REDUCER AND 1"C TO ACCESSIBLE CEILING AREA	
	RECTION ARROWS AS INDICATED				RAISE-LOWER PUSHBUTTON WITH CENTER STOP		POTENTIAL TRANSFORMER, QUANTITY AS INDICATED.	COMBINATION VOICE/DATA OUTLET DOUBLE GANG BOX WITH SINGLE GANG REDUCER	
	IERGENCY BATTERY UNIT LUMINAIRE				PUSH-PLATE FOR AUTOMATIC DOOR	$\begin{array}{c} \searrow \ \square \\ & \swarrow \\ & \swarrow \\ & \swarrow \\ & 1 \end{array} $		AND 1"C TO ACCESSIBLE CEILING AREA SINGLE GANG BOX WITH WALL PHONE PLATE AND 3/4 "C TO ACCESSIBLE CEILING AREA.	
	ONTROL COIL				POWER POLE; WHIP TO BE HARDWIRED TO FURNITURE WIRING SYSTEM		INDICATED.	W AND 3/4 "C TO ACCESSIBLE CEILING AREA.	
Р РНОТ	HOTO CELL		COMMUNICATION FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	R, I		\wedge			V V
_	SWITCH SYMBOLS	ÂV	SYSTEM.				TRANSFORMER CONNECTION DELTA- RESISTANCE GROUNDED WYE		WHATABU
SINC	NGLE POLE, LOW VOLTAGE SWITCH, 20A, 120-277VAC		FLUSH POKE-THROUGH WITH POWER RECEPTACLES.			÷		TP TP TP TELECOMM POLE; WHIP TO BE HARDWIRED TO FURNITURE WIRING SYSTEM	NOTICE: THIS ARCHITECTURAL AN
x "X" F	" REFER TO SWITCH NOTES		FLUSH POKE-THROUGH WITH COMMUNICATION RECEPTACLES.		LIGHTNING PROTECTION THROUGH ROOF DOWN CONDUCTOR	\sim	TRANSFORMER CONNECTION DELTA-GROUNDED WYE	SECURITY SYMBOLS	DRAWING IS GIVEN IN CONFIDENCE A ONLY PURSUANT TO THE AGREE ARCHITECT. NO OTHER USE, DISS
<u>HNOTES</u> :		<u>AV</u>	FLUSH POKE-THROUGH WITH AUDIO/VISUAL RECEPTACLES.		LIGHTNING PROTECTION AIR TERMINAL			CARD READER	DUPLICATION MAY BE MADE WITHOU CONSENT OF THE ARCHITECT. ALL CO OF COPYRIGHT AND OTHERWIS
= THREE-WAY S = FOUR-WAY SV	ASE LETTER INDICATES SWITCHING CIRCUIT ID AY SWITCH 20A, 120-277VAC Y SWITCH 20A, 120-277VAC MOTOR STARTER SWITCH	P	FLUSH POKE-THROUGH WITH POWER AND COMMUNICATION RECEPTACLES.		MULTI-OUTLET RACEWAY WITH RECEPTACLES EVERY 2 FT ON CENTER AND DATA OUTLETS EVERY 6 FT ON CENTER. TYPE AND CIRCUIT DESIGNATION AS INDICATED		STATIC BYPASS SWITCH	DPS DOOR POSTION SWITCH	SPECIFICALLY RESER
OL" = MANUAL M " = DIMMER CON ⁻	MOTOR STARTER SWITCH AL MOTOR STARTER WITH THERMAL OVERLOADS CONTROL VAY DIMMING SWITCH	PT AV	FLUSH POKE-THROUGH WITH POWER, COMMUNICATION AND AUDIO/VISUAL RECEPTACLES.	·	- WIRE/CONDUIT EXPOSED			REX REQUEST TO EXIT	sprante,
4" = FOUR-WAY E " = SINGLE POLE	VAY DIMMING SWITCH AY DIMMING SWITCH DLE SWITCH WITH PILOT LIGHT DLE SWITCH (KEY-OPERATED)	P	RECESSED FLOOR BOX FOR POWER FEEDS. POWER FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		WIRE/CONDUIT CONCEALED	GEN	GENERATOR	FIXED CCTV POE CAMERA	STATE OF MIS
= SINGLE POLE " = THREE-POSI	DLE SWITCH (KEY-OPERATED) DLE SWITCH WITH TIMER OSITION SWITCH, CENTER-OFF, MOMENTARY CONTACT NCY/VACANCY SENSOR WALL SWITCH(IR) WITH MANUAL OVERRIDE	T	RECESSED FLOOR BOX FOR COMMUNICATION FEEDS. COMMUNICATION FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.		WIRE/CONDUIT CONCRETE ENCASED OR DIRECT BURIED	N _ E		PTZ PAN, TILT, ZOOM CCTV POE CAMERA	JASON E. CHRIS NUMBER PE-2012002
'=00007		AV	RECESSED FLOOR BOX FOR AUDIO/VISUAL FEEDS. AUDIO/VISUAL FEEDS TO BE HARDWIRED TO FURNITURE WIRING SYSTEM.	G	GROUNDING CONDUCTOR, SIZE AS INDICATED.		AUTOMATIC TRANSFER SWITCH	180 OR 360 DEGREE CCTV POE CAMERA	PB-20120021
		PT			HOME RUN INDICATION WITH PANEL DESIGNATION (RP5), CIRCUIT No.(7)&(9), OVERCURRENT PROTECTION "AMPS AND POLES" (20/2)	ο <mark>Ν</mark> οΓοΕ			- Sonale
occu	CCUPANCY SENSOR MOUNTED IN CEILING	PT •	RECESSED FLOOR BOX FOR POWER, COMMUNICATION AND AUDIO/VISUAL FEEDS. POWER, COMMUNICATION AND AUDIO/VISUAL FEEDS TO BE HARDWIRED TO FURNITURE WIRING	R, (20/2)	AND WIRE/CONDUIT DESIGNATION (2W20). SEE WIRE AND CONDUIT SIZE SCHEDULE. PROVIDE 20A/1P AND 2 #12 FOR EACH HOMERUN ARROW & 1 #12G IN 3/4 " CONDUIT, UNLESS OTHERWISE INDICATED.		AUTOMATIC TRANSFER AND BYPASS ISOLATION SWITCH		
ANCY SENSOR N		AV	SYSTEM. RECESSED FLOOR BOX WITH POWER RECEPTACLES.		SEE GENERAL NOTE 1. UNDERGROUND DUCT BANK - ELECTRIC				PROFESSIONAL O JASON E. CHRISTOFF
. PLACE UL1'	ULTRASONIC SENSORS 6'-0" AWAY FROM SUPPLY AND RETURN VENTS.		RECESSED FLOOR BOX WITH POWER RECEPTACLES.		UNDERGROUND DUCT BANK - ELECTRIC UNDERGROUND DUCT BANK - COMMUNICATION/DATA/TELEPHONE		PANELBOARD		EXP. DATE: 12
		V	RECESSED FLOOR BOX WITH COMMUNICATION RECEIPTORES.	TC					REV DESCRIPTION
			ļ			\uparrow	POWER FACTOR CORRECTION CAPACITOR		
			ļ	H 1 MI					
			ļ	CABLE,1/C	(1) MI CABLE, SINGLE CONDUCTOR				Project No.: 62-40497-01 Client Project No.:
				1 MI CABLE,3/C	(1) MI CABLE, THREE CONDUCTOR				Drawing Title:
			I	3 MI CABLES,1/C	(3) MI CABLES, SINGLE CONDUCTOR EACH				ELECTRICAL S





Date:	12/22/20	Phase:	PERMIT SET
Designed:	DCU	Drawing No).:
Drawn :	DCU		1
Checked :	KFF	E0.	
	1		

		1	₹	2
	ABBREVIATIONS		ABBREVIATIONS	
				LONG TIME
	A,AMP AC	AMPERE(S) ALTERNATING CURRENT	LTG	LIGHTING
	AF	AMPERE FRAME (CIRCUIT BREAKER)	LP	LIGHTING PANEL
	AFF	ABOVE FINISHED FLOOR	Μ	METER
	AFG AFU	ABOVE FINISHED GRADE AMPERE FUSE	mm mm2	MILLIMETER MILLIMETERS SQUARED
	AHU	AIR HANDLING UNIT	MAX	MAXIMUM
	AIC	AMPERE INTERRUPTING CAPACITY	MCB	MAIN CIRCUIT BREAKER
	AL AS	ALUMINUM AMMETER SWITCH	MCC MCCB	MOTOR CONTROL CENTER MOLDED CASE CIRCUIT BREAKER
	AM	AMMETER	MDF	MAIN DISTRIBUTION FRAME
	AT	AMPERE TRIP (CIRCUIT BREAKER)	MECH	MECHANICAL
D	ATS AUX	AUTOMATIC TRANSFER SWITCH AUXILIARY	MFR MH	MANUFACTURER MANHOLE
	AVX A/V	AUDIO VISUAL	МІ	MINERAL-INSULATED
	AWG	AMERICAN WIRE GAUGE	MIN	
	BAS	BUILDING AUTOMATION SYSTEM	MIC MIN	MEDIA INTERFACE CONNECTOR MINIMUM
	BKR BLDG	BREAKER BUILDING	MLO	MAIN LUGS ONLY
	BP	BYPASS	MPS	MANUAL PULL STATION
	BSC	BIOLOGICAL SAFETY CABINET	MTD MTG	MOUNTED MOUNTING
	C C/ CDT	CONDUCTOR CONDUIT	MTS	MANUAL TRANSFER SWITCH
	CATV	CABLE TELEVISION	MV	MEDIUM VOLTAGE
	СВ	CIRCUIT BREAKER	N NEC	NEUTRAL/NORMAL NATIONAL ELECTRICAL CODE
	CCTV		NEC	NORMALLY-CLOSED
	CKT CLG	CIRCUIT CEILING	NIC	NOT IN CONTRACT
	CO	CONDUIT ONLY	NL	NIGHT LIGHT
	COAX	COAXIAL CABLE	NO NORM	NORMALLY-OPEN / NUMBER NORMAL
	COL COMM	COLUMN COMMUNICATIONS	NTS	NOT TO SCALE
	CP	CONTROL PANEL	NWP	NETWORK PROTECTOR
	CPT	CONTROL POWER TRANSFORMER	OCB OL	OIL CIRCUIT BREAKER OVERLOAD(S)
	CPU CR	CENTRAL PROCESSING UNIT CARD READER	OC	ON-CENTER
	CRT	CARD READER CATHODE RAY TUBE MONITOR	OS P	OCCUPANCY SENSOR POLE
	CS	CONTROL SWITCH	P PA	PULE PUBLIC ADDRESS SYSTEM
	CU CUH	COPPER CABINET UNIT HEATER	PB	PUSHBUTTON/PULLBOX
	СТ	CURRENT TRANSFORMER	PBX	PRIVATE BRANCH EXCHANGE
	D		PC PDU	PHOTOCELL POWER DISTRIBUTION UNIT
	DC DDC	DIRECT CURRENT DIRECT DIGITAL CONTROL	PF	POWER FACTOR
	DEMO	DEMOLITION	PFCC	POWER FACTOR CORRECTION CAPACITORS
	DIA	DIAMETER	PH,¢ PNL	PHASE PANEL
	DN	DOWN	PP	POWER PANEL
	DISC DIST	DISCONNECT DISTRIBUTION	PR	PAIR
	DWG	DRAWING	PRI	PRIMARY
	E		PT PVC	
	EC EF	ELECTRICAL CONTRACTOR, EMPTY CONDUIT EXHAUST FAN	PVC PWR	POLYVINYLCHLORIDE POWER
	EL	ELEVATION	QTY	QUANTITY
	ELECT,ELEC	ELECTRICAL	RE	REMOVE EXISTING RECEPTACLE
	ELEV EMT	ELEVATOR ELECTRICAL METALLIC TUBING	REC,RECPT REPO	RECEPTACLE REMOTE E.P.O.
	EO	ELECTRICALLY OPERATED	REQ,REQD	REQUIRED
	EOL	END OF LINE DEVICE	RF	
	EPO EQ	EMERGENCY POWER OFF EQUAL	RIM RM	READER INTERFACE MODULE ROOM
	EQUIP	EQUIPMENT	RO	REVERSE-OSMOSIS
	ER	EXISTING TO BE RELOCATED	RP RVAT	RECEPTACLE PANEL REDUCED VOLTAGE AUTOTRANSFORMER
	EWC EX	ELECTRIC WATER COOLER EXISTING TO REMAIN	RTU	REMOTE TERMINAL UNIT
	F	FLUSH	RUPS	ROTARY UPS
	FA		SCA SD	SHORT CIRCUIT AMPERES SMOKE DETECTOR
	FCC FCU	FIRE COMMAND CENTER FAN COIL UNIT	SEC	SECONDARY
	FDDI	FIBER DISTRIBUTED DATA INTERFACE	SF	SUPPLY FAN
	FDR	FEEDER	SF6 SPD	SULFERHEXAFLORIDE SURGE PROTECTIVE DEVICE
	FH FIP	FUME HOOD FIELD INTERFACE PANEL	SPEC	SPECIFICATION
	FIXT	FIXTURE	SPKR	
в	FLA	FULL LOAD AMPERES	SS ST	STAINLESS STEEL/SOLID STATE SHUNT TRIP/SHORT TIME
	FLR,FL FLUOR	FLOOR FLUORESCENT	STD	STANDARD
	FLUOR FO	FIDORESCENT FIBER OPTIC	STP	SHIELDED TWISTED PAIR
	FPB	FAN POWERED BOX	STS SW	STATIC TRANSFER SWITCH SWITCH
	FSD FU	FIRE SMOKE DAMPER FUSE	SWBD	SWITCHBOARD
	FUT	FUTURE	SWGR	SWITCHGEAR
	FVR FVNR	FULL VOLTAGE REVERSIBLE FULL VOLTAGE NON REVERSIBLE	SYM SYS	SYMMETRICAL SYSTEM
	G	GROUND (CONDUCTOR)	Т	TRANSFORMER
	GA	GAUGE	TB TELECOM	TERMINAL BLOCK TELECOMMUNICATIONS
	GEN GF	GENERATOR GROUND FAULT	TDR	TIME DOMAIN REFLECTOMETER
	GFI	GROUND FAULT CIRCUIT INTERRUPTER	TEF TEL,TELE	TOILET EXHAUST FAN TELEPHONE
	GND,GRD	GROUND	TR	TELEPHONE ROOM
	GPS GRC	GENERATOR PARALLELING SWITCHGEAR GALVANIZED RIGID STEEL CONDUIT	TV	TELEVISION
	GRC HH	GALVANIZED RIGID STEEL CONDUIT HAND HOLE	TVSS TYP	TRANSIENT VOLTAGE SURGE SUPPRESSION TYPICAL
	HID	HIGH INTENSITY DISCHARGE	UC	UNDER-COUNTER
	HOA HP	HAND-OFF-AUTOMATIC SWITCH HORSEPOWER	UH	UNIT HEATER
	HP HT	HORSEPOWER HEIGHT	UL UNO	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE
		HOT WATER PUMP	UNO	UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED
	HWP			UNINTERRUPTIBLE POWER SUPPLY
	HV	HIGH VOLTAGE	UPS	
			UTP	
	HV HZ I/INST ICM	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER	UTP V	VOLT(S)
	HV HZ I/INST ICM ICR	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE	UTP	
	HV HZ I/INST ICM	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER	UTP V VA VAV VFD	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE
	HV HZ I/INST ICM ICR IG IMC INSTR	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION	UTP V VA VAV VFD VM	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER
4	HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX	UTP V VA VAV VFD VM VS	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER SWITCH
4	HV HZ I/INST ICM ICR IG IMC INSTR	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION	UTP V VA VAV VFD VM	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER
4	HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KA	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS	UTP V VA VAV VFD VM VS W/ W WCR	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING
4	HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS KITCHEN EXHAUST FAN	UTP V VA VAV VFD VM VS W/ W W W W W W W W W W	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING WATTMETER
4	HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KCM KEF KW KWH	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS KITCHEN EXHAUST FAN KILOWATTS KILOWATT HOUR	UTP V VA VAV VFD VM VS W/ W WCR	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WIRSTAND CURRENT RATING WATTMETER WEATHERPROOF
4	HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KA KCM KEF KW KWH KWH	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS KITCHEN EXHAUST FAN KILOWATTS KILOWATT HOUR KILOVOLTS	UTP V VA VAV VFD VM VS W/ W W W W W W W W W W W W W W W W W	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING WATTMETER
4	HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KCM KEF KW KWH	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS KITCHEN EXHAUST FAN KILOWATTS KILOWATT HOUR	UTP V VA VAV VFD VM VS W/ W W W W W W W W W X F MR XP	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING WATTMETER WEATHERPROOF WATERTIGHT TRANSFORMER EXPLOSION-PROOF
4	HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KCM KEF KW KWH KV KVA KVA KVA KVAR L	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS KITCHEN EXHAUST FAN KILOWATTS KILOWATTS KILOVOLTS KILO VOLT-AMPERES KVA REACTIVE LOCKING TYPE/LOAD	UTP V VA VAV VFD VM VS W/ W W WCR WM WP WT XFMR XP ZI	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING WATTMETER WEATHERPROOF WATERTIGHT TRANSFORMER EXPLOSION-PROOF ZONE INTERLOCKING
4	HV HZ I/INST ICM ICR IG IMC INSTR JB,JBOX K KA KCM KEF KW KWH KV KVA KVA KVA	HIGH VOLTAGE HERTZ INSTANTANEOUS INTERCOM MASTER INTERCOM REMOTE ISOLATED GROUND INTERMEDIATE METAL CONDUIT INSTRUMENT/INSTRUMENTATION JUNCTION BOX KEY LOCK (KEY INTERLOCK SCHEME) KILOAMPERES THOUSAND CIRCULAR MILS KITCHEN EXHAUST FAN KILOWATTS KILOWATT HOUR KILOVOLTS KILO VOLT-AMPERES KVA REACTIVE	UTP V VA VAV VFD VM VS W/ W W W W W W W W W X F MR XP	VOLT(S) VOLT-AMPERES VARIABLE AIR VOLUME BOX VARIABLE FREQUENCY DRIVE VOLTMETER VOLTMETER SWITCH WITH WIRE/WATT/ WIDTH WIRE/WATT/ WIDTH WITHSTAND CURRENT RATING WATTMETER WEATHERPROOF WATERTIGHT TRANSFORMER EXPLOSION-PROOF

1

V

V MOUNTING HEIGHTS: UNLESS OTHERWISE INDICATED, OUTLET BOXES IN WALLS SHALL BE LOCATED WITH CENTERLINE AT THE FOLLOWING ELEVATIONS ABOVE THE FINISHED FLOOR LINE. VERIFY ALL HEIGHTS PRIOR TO ACTUAL LAYOUT OF WORK WITH THE GENERAL CONSTRUCTION

2

 CONTRACTOR.							
1.	SWITCH OUTLETS	4 FEET					
2.	BRACKET OUTLETS (OTHER)	6 FEET-6 INCHES					
3.	RECEPTACLE OUTLETS (U.O.N.)	1 FOOT-6 INCHES					
4.	RECEPTACLE OUTLETS, MECHANICAL ROOMS	3 FEET					
5.	RECEPTACLE OUTLETS MOUNTED, ABOVE CASEWORK/CABINETS	4 INCHES ABOVE BACKSPLASH					
6.	CLOCK OUTLETS	12 INCHES BELOW CEILING					
7.	MOTOR STARTERS AND SAFETY SWITCHES	4 FEET-6 INCHES					
8.	PANELBOARDS (TOP)	6 FEET-6 INCHES					

3

GENERAL NOTES:

V

1. PROVIDE EACH 120V, 20A BRANCH CIRCUIT FROM LIGHTING AND APPLIANCE PANELBOARDS WITH A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR. NO SHARED NEUTRALS ARE PERMITTED UNLESS OTHERWISE INDICATED. BRANCH CIRCUIT HOME RUN WIRING MAY BE COMBINED UP TO MAXIMUM OF (6) CURRENT CARRYING CONDUCTORS IN A CONDUIT SIZED PER NFPA 70.

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- 2. THESE ARE STANDARD COVER SHEET ABBREVIATION LISTS AND SYMBOLS. DISREGARD UNUSED ABBREVIATIONS AND SYMBOLS.
- 3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LUMINAIRE LOCATIONS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF LUMINAIRES WITH OTHER TRADES.
- FOR LOCATION OF MECHANICAL EQUIPMENT, REFER TO MECHANICAL PLANS.
- A '+' BESIDE A DEVICE INDICATES MOUNTED ABOVE CASEWORK OR COUNTER. A 'UC' BESIDE A DEVICE INDICATES MOUNTED UNDER COUNTER.
- 7. PROVIDE # 10 AWG PHASE, NEUTRAL, AND GROUND CONDUCTORS FOR 120 VOLT, 20 AMPERE BRANCH CIRCUITS EXCEEDING 100 FEET.

MOUNTING HEIGHT NOTES:

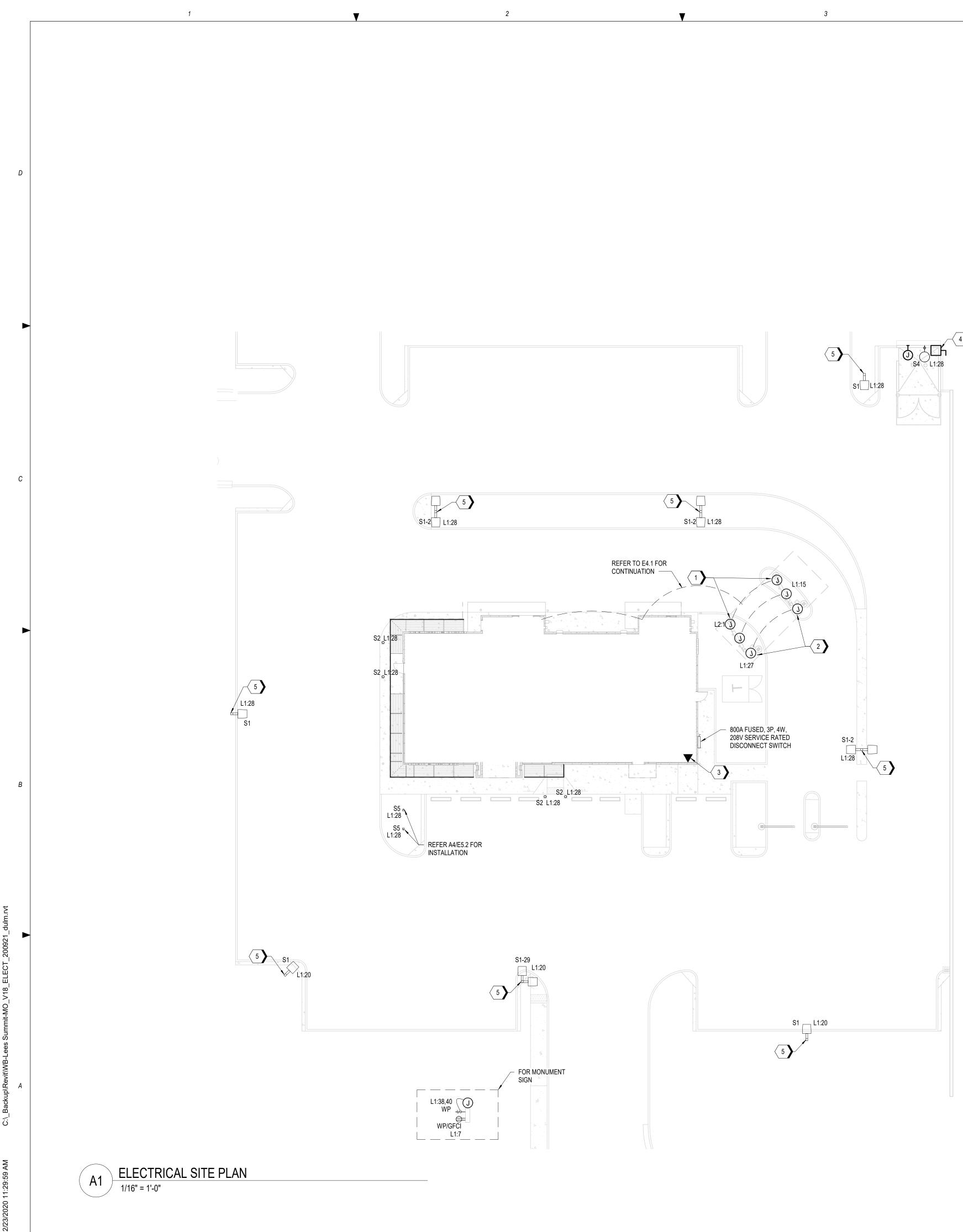
1. THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS OTHERWISE NOTED ON PLANS OR SPECIFICATIONS.



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Date:	12/22/20	Phase:	PERMIT SET
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- A. REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- B. CIRCUIT SIGNAGE TO NEW BUILDING AS SHOWN.
- C. ELECTRICAL CONTRACTOR SHALL VERIFY UNDERGROUND SERVICE REQUIREMENTS WITH POWER COMPANY.
- D. SIGNAGE TO BE INSTALLED BY SIGN CONTRACTOR. VERIFY EXACT LOCATIONS, LOADS, AND WIRING REQUIREMENTS PRIOR TO INSTALLATION.
- E. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, AND CONNECTIONS FOR SIGNAGE AND PARKING LOT LIGHTS. COORDINATE EXACT LOCATIONS.
- F. ELECTRICAL CONTRACTOR SHALL VERIFY ALL REQUIREMENTS WITH SITE CONTRACTOR.
- G. UNDERGROUND CONDUIT INSTALLATIONS SHALL COMPLY WITH NEC ARTICLE 300.5. UNLESS OTHERWISE NOTED, MINIMUM SIZE FOR CONDUIT SHALL BE 1".
- H. EXTERIOR LIGHTING AND SIGN LIGHTING SHALL BE CONTROLLED VIA TIME CLOCK AND PHOTOCELL. REFER TO SHEET E5.1 FOR LIGHTING CONTROL WIRING DIAGRAM.



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KEYNOTES

- 1 EXTERIOR MENU BOARD. PROVIDE 1"C FROM MENU BOARD TO PANEL 'L2' AND PROVIDE 1" SPARE CONDUIT. 2 1" CABLE ELECTRIC SERVICE FOR VEHICLE DETECTOR, AUDIO, AND VIDEO TO BACK OF DRIVE THRU WINDOW
- SPEAKER POST.
- 3 TELEPHONE SERVICE IN 2" UNDERGROUND CONDUIT. ROUTE LINE TO BUILDING AT THIS LOCATION. COORDINATE TELEPHONE SERVICE WITH UTILITY.
- 4 TRASH COMPACTOR. PROVIDE 30A/240V/3P/NF/NEMA 3R DISCONNECT SWITCH WITH 3#10, #10 GND, IN 1"C TO PANEL 'MDP'. STUB UP AGAINST SERVICE YARD WALL.
- 5 PROVIDE 3/4" CONDUIT WITH PULL STRING FROM LIGHT POLE BACK TO BUILDING FOR CAMERAS AND ACCESS POINTS. COORDINATE WITH OWNER REPRESENTATIVE FOR ADDITIONAL REQUIREMENTS.



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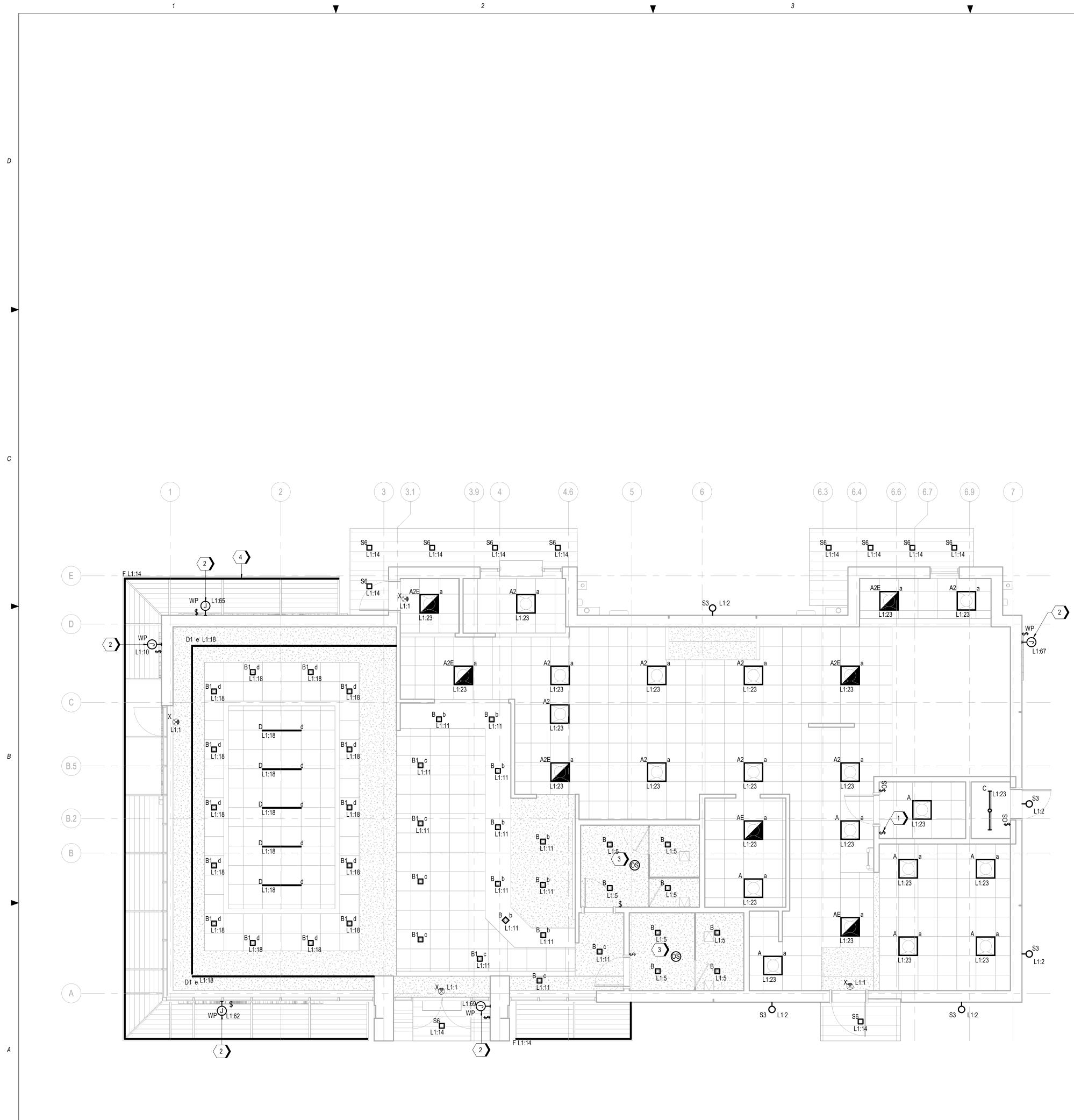
62-40497-01 Project No.:

Client Project No.:

Drawing Title:

ELECTRICAL SITE PLAN

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A1 ELECTRICAL LIGHTING PLAN 3/16" = 1'-0"

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GENERAL NOTES

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A. REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.

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- B. DINING ROOM LIGHTING PLAN CORRESPONDS TO REFLECTED CEILING PLAN, SHEET A1.3. ELECTRICAL CONTRACTOR SHALL REFER TO THE PLANS PROVIDED BY INTERIOR DECOR.
- C. ALL LIGHTING FIXTURES SHALL BE SWITCHED LOCALLY, CONTROLLED BY OCCUPANCY SENSOR OR BMS CONTROLLED UNLESS OTHERWISE NOTED.
- D. SPECIAL SWITCHES SHALL BE INSTALLED AS NOTED.
- E. REFER TO ARCHITECTURAL CEILING PLAN, SHEET A1.3 FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES AND HVAC DIFFUSER LOCATIONS PRIOR TO ANY ELECTRICAL ROUGH-IN.
- F. COORDINATE EXACT LOCATION OF J-BOXES WITH ACTUAL LOCATION OF RESPECTIVE SIGNAGE OR LIGHTING. ALL EXTERIOR SIGNAGE AND LIGHTING SHALL BE CONTROLLED THROUGH A LIGHTING CONTROL PANEL. LIGHTING CONTROL PANEL SHALL HAVE AN 8-POLE, NORMALLY OPEN CONTACTOR. ALL WHATABURGER LOGO BUILDING SIGNS CONNECTED TO OUTDOOR SIGNAGE TERMINALS, SOFFIT RECESSED FIXTURES, AND BACK DOOR LIGHTING ARE CONNECTED TO OUTDOOR LIGHTING TERMINALS.
- G. REFER TO SHEET E1.1 FOR LOCATIONS OF SIGNAGE, PARKING LOT LIGHTING, DRIVE THRU CONDUITS AND SERVICE LOCATION.
- H. ELECTRICAL CONTRACTOR SHALL DETERMINE FINAL CONDUCTOR LENGTHS AND SIZES AS PER N.E.C. SIZE OF CONDUCTORS SHALL BE ADJUSTED FOR VOLTAGE DROP AS REQUIRED BY N.E.C.
- I. ALL PENETRATIONS THROUGH THE WALK IN COOLER/FREEZER ARE TO BE SEALED WITH SILICONE AROUND THE INTERIOR AND EXTERIOR OF THE CONDUITS TO PREVENT CONDENSATION.
- J. ELECTRICAL CONTRACTOR SHALL FEED SIGNAGE AND SECURITY LIGHTING WITH SEPERATE CIRCUITS ON ANY COMMON CONDUIT RUN. FOR EXAMPLE, DO NOT FEED A POLE TOP SECURITY LIGHT IN THE SAME CIRCUIT WITH THE LARGE SIGN. SEPERATE ALL SIGNAGE AND SECURITY LIGHTING.
- K. REFER TO ARCHITECTURAL ELEVATIONS FOR BUILDING SIGN LOCATIONS. COORDINATE ALL J-BOX LOCATIONS WITH SIGN LOCATIONS PRIOR TO INSTALLATION.
- L. REFER TO SHEET E6.1 FOR LIGHT FIXTURE SCHEDULE.

KEYNOTES

- PROVIDE GRAPHIC LIGHTING CONTROL SCENE SELECTOR SWITCH TO CONTROL SWITCH LEGS "a-e".
 COORDINATE EXACT LOCATION OF JUNCTION BOX FOR EXTERIOR SIGNAGE WITH ACTUAL LOCATION OF
- 2 COORDINATE EXACT LOCATION OF JUNCTION BOX FOR EXTERIOR SIGNAGE WITH ACTUAL EXTERIOR SIGNAGE. PROVIDE SWITCH FOR SIGNAGE IN WEATHER PROOF ENCLOSURE.
- 3 CEILING/WALL MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTING WITHIN THIS SPACE WITH A MAXIMUM DELAY SETTING OF 30 MINUTES.

4 REFER TO VIEW C1 ON SHEET A6.8 FOR TYPE F DETAIL.



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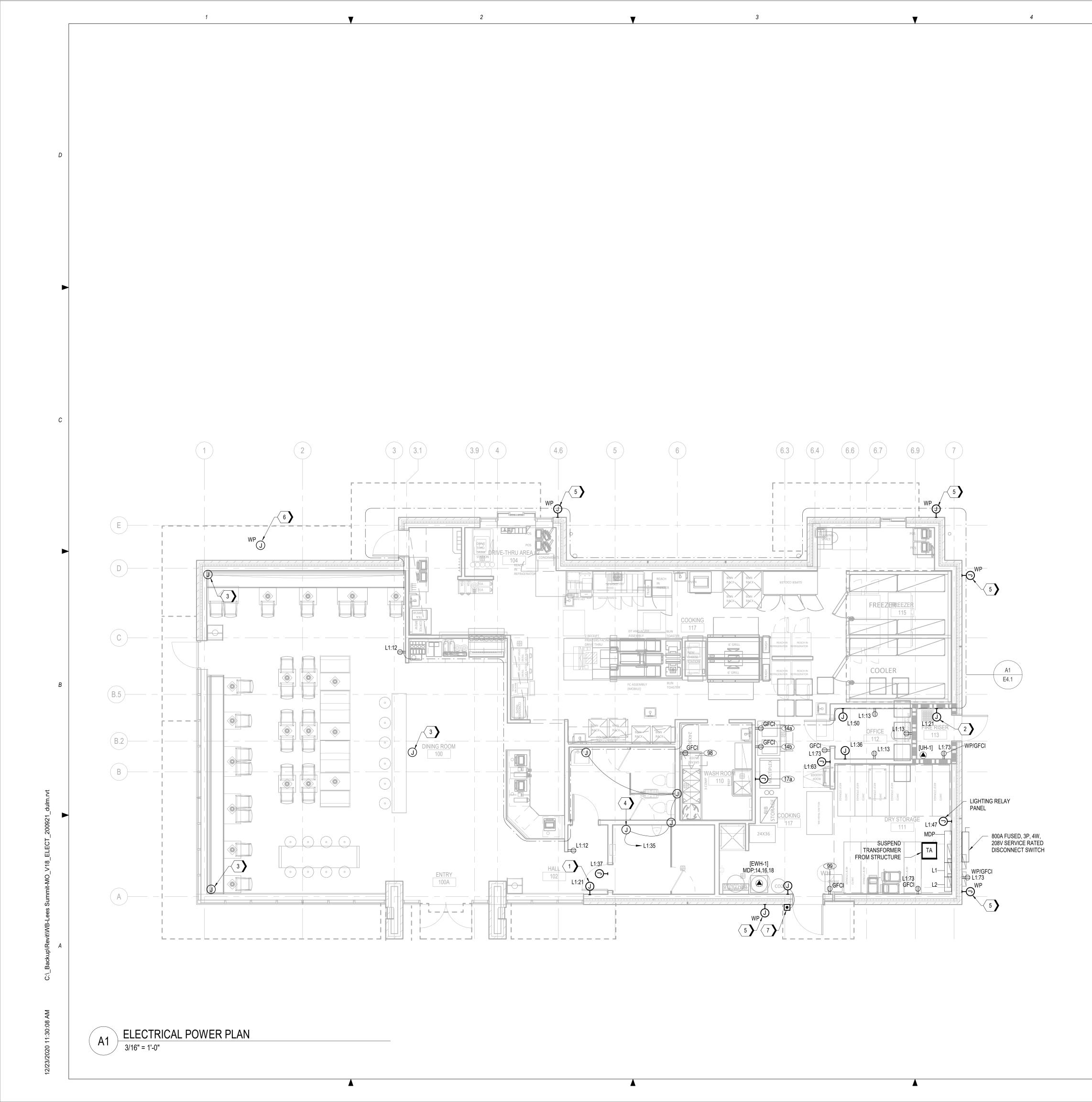
Project No.: 62-40497-01

Client Project No.:

Drawing Title:

ELECTRICAL LIGHTING PLAN -FIRST FLOOR

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	12/22/20 DCU DCU KFF	DCU Drawing No.



- A. REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- B. VERIFY ALL POWER AND TELEPHONE COMPANY REQUIREMENTS PRIOR TO ALL INSTALLATIONS.
- C. LEAVE A PULL WIRE IN ALL EMPTY CONDUITS.
- D. ELECTRICAL CONTRACTOR SHALL ROUTE UNDERFLOOR POWER WIRING IN CONDUITS TO KITCHEN PANELS AS REQUIRED.
- E. ELECTRICAL KITCHEN EQUIPMENT SCHEDULE IS ONLY SHOWN FOR REFERENCE. COORDINATE ALL KITCHEN RECEPTACLES, EQUIPMENT CONNECTIONS, AND INSTALLATION WITH KITCHEN DRAWINGS AND EQUIPMENT SUPPLIER. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR PRE-WIRED KITCHEN PANELS AND FOR ADDITIONAL EQUIPMENT LISTING AND REQUIREMENTS.
- F. PANELS SHALL NOT TAKE MORE SPACE THAN ALLOCATIED ON PLANS. ONLY SPACES FOR BREAKERS SHALL HAVE KNOCKOUTS IN PANELS. BREAKER CLOSURE PLATES SHALL BE KEPT TO A MINIMUM.
- G. ELECTRICAL CONTRACTOR SHALL CONNECT ALL INTERNAL WIRING (CORD SETS) BETWEEN VENTILATION STAND AND PASS-THROUGH STAND. CONNECTIONS SHALL BE COMPLETE AND TESTED BEFORE ACCEPTANCE.
- H. CENTER ISLAND KITCHEN EQUIPMENT IS PROVIDED PREWIRED TO EQUIPMENT CONTRACTORS.
- I. ALL JUNCTION BOXES SERVING ISOLATED GROUND RECEPTACLES, SHALL BE LABELED "REGISTER."
- J. ALL ISOLATED GROUND SPLICES SHALL BE MADE WITH CRIMP TYPE CONNECTORS. WIRE NUTS ARE NOT ACCEPTABLE.
- K. REFER TO KITCHEN EQUIPMENT PLANS FOR EXACT LOCATION OF ELEC. CONDUIT STUB-UPS AT COOK LINES.
- L. ALL KITCHEN 115 AND 120 VAC RECEPTACLES SHALL BE GFCI PROTECTED PER NEC AND LOCAL AHJ.
- M. REFER TO SHEET E6.1 FOR KITCHEN EQUIPMENT SCHEDULE.

KEYNOTES

- FIRE ALARM ANNUNCIATOR PANEL. REFER TO FIRE ALARM DRAWINGS FOR FURTHER INFORMATION.
 FIRE ALARM CONTROL PANEL. REFER TO FIRE ALARM DRAWINGS FOR FURTHER INFORMATION.
 PROVIDE CEILING MOUNTED JUNCTION BOX FOR SECURITY. PROVIDE 3/4" CONDUIT WITH NYLON PULL STRING FROM ELECTRICAL PANEL AREA TO JUNCTION BOX.
- PROVIDE STEP-DOWN TRANSFORMER FOR FLUSH VALVES.
 PROVIDE WALL MOUNTED, GASKETED JUNCTION BOX MOUNTED 9'-0" ABOVE GRADE FOR SECURITY. PROVIDE
- 3/4" CONDUIT WITH NYLON PULL STRING FROM ELECTRICAL PANEL AREA TO JUNCTION BOX.
 PROVIDE CEILING MOUNTED, GASKETED JUNCTION BOX FOR SECURITY. PROVIDE 3/4" CONDUIT WITH NYLON
- PULL STRING FROM ELECTRICAL PANEL AREA TO JUNCTION BOX.
 PROVIDE BELL AND BUZZER WITH STAINLESS STEEL COVER PLATE. PROVIDE 120/24V CONTROL TRANSFORMER. EDWARDS #156G-3G5/592/620.



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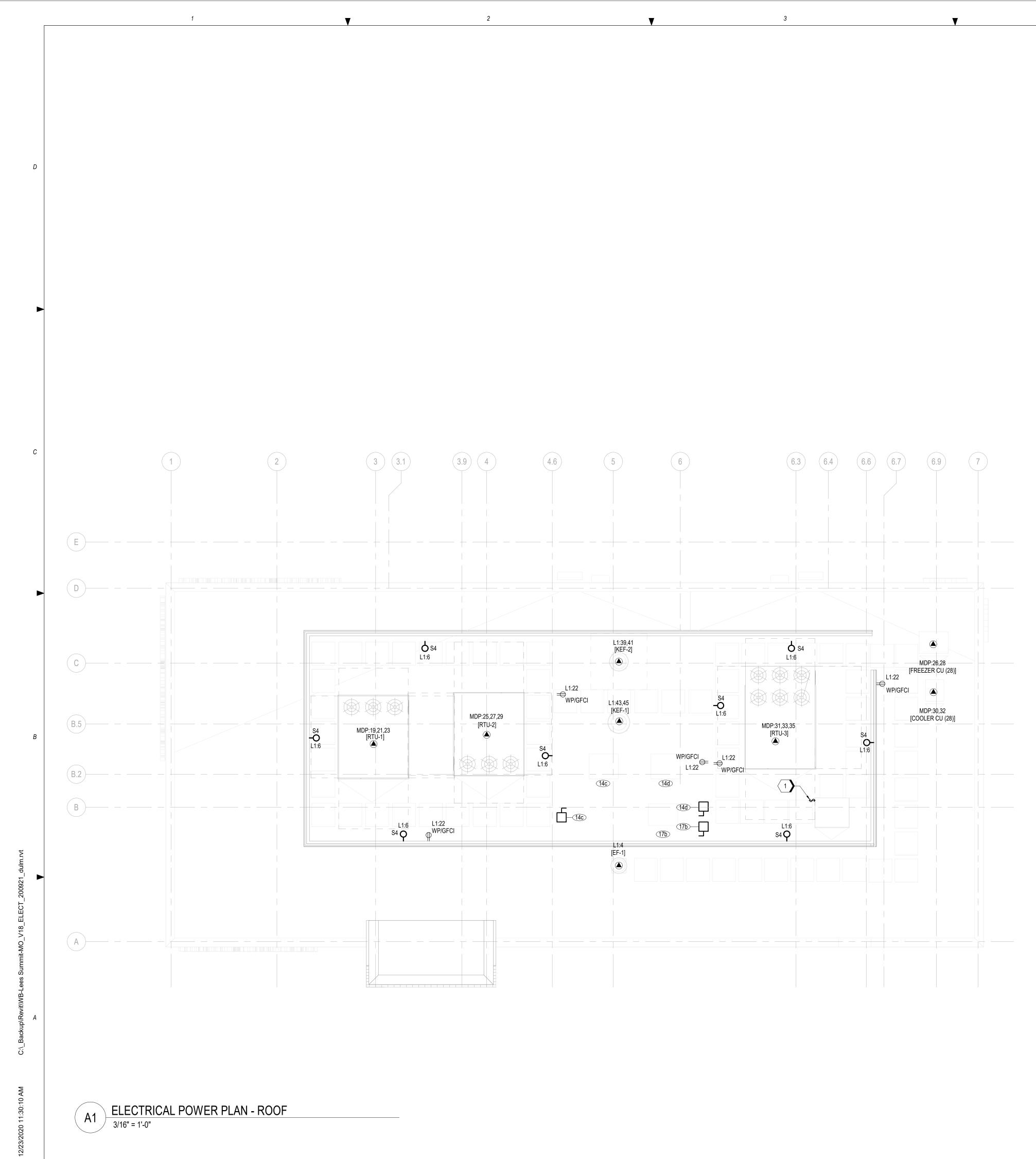
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- A. REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- B. VERIFY ALL POWER AND TELEPHONE COMPANY REQUIREMENTS PRIOR TO ALL INSTALLATIONS.
- C. LEAVE A PULL WIRE IN ALL EMPTY CONDUITS.

4

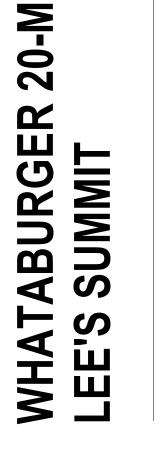
- D. ELECTRICAL CONTRACTOR SHALL ROUTE UNDERFLOOR POWER WIRING IN CONDUITS TO KITCHEN PANELS AS REQUIRED.
- E. ELECTRICAL KITCHEN EQUIPMENT SCHEDULE IS ONLY SHOWN FOR REFERENCE. COORDINATE ALL KITCHEN RECEPTACLES, EQUIPMENT CONNECTIONS, AND INSTALLATION WITH KITCHEN DRAWINGS AND EQUIPMENT SUPPLIER. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR PRE-WIRED KITCHEN PANELS AND FOR ADDITIONAL EQUIPMENT LISTING AND REQUIREMENTS.
- F. PANELS SHALL NOT TAKE MORE SPACE THAN ALLOCATIED ON PLANS. ONLY SPACES FOR BREAKERS SHALL HAVE KNOCKOUTS IN PANELS. BREAKER CLOSURE PLATES SHALL BE KEPT TO A MINIMUM.
- G. ELECTRICAL CONTRACTOR SHALL CONNECT ALL INTERNAL WIRING (CORD SETS) BETWEEN VENTILATION STAND AND PASS-THROUGH STAND. CONNECTIONS SHALL BE COMPLETE AND TESTED BEFORE ACCEPTANCE.
- H. CENTER ISLAND KITCHEN EQUIPMENT IS PROVIDED PREWIRED TO EQUIPMENT CONTRACTORS.
- I. ALL JUNCTION BOXES SERVING ISOLATED GROUND RECEPTACLES, SHALL BE LABELED "REGISTER."
- J. ALL ISOLATED GROUND SPLICES SHALL BE MADE WITH CRIMP TYPE CONNECTORS. WIRE NUTS ARE NOT ACCEPTABLE.
- K. REFER TO KITCHEN EQUIPMENT PLANS FOR EXACT LOCATION OF ELEC. CONDUIT STUB-UPS AT COOK LINES.
- L. ALL KITCHEN 115 AND 120 VAC RECEPTACLES SHALL BE GFCI PROTECTED PER NEC AND LOCAL AHJ.
- M. REFER TO SHEET E6.1 FOR KITCHEN EQUIPMENT SCHEDULE.

KEYNOTES

1 PROVIDE WEATHER PROOF ENCLOSURE FOR ROOF LIGHTING AND SWITCH.



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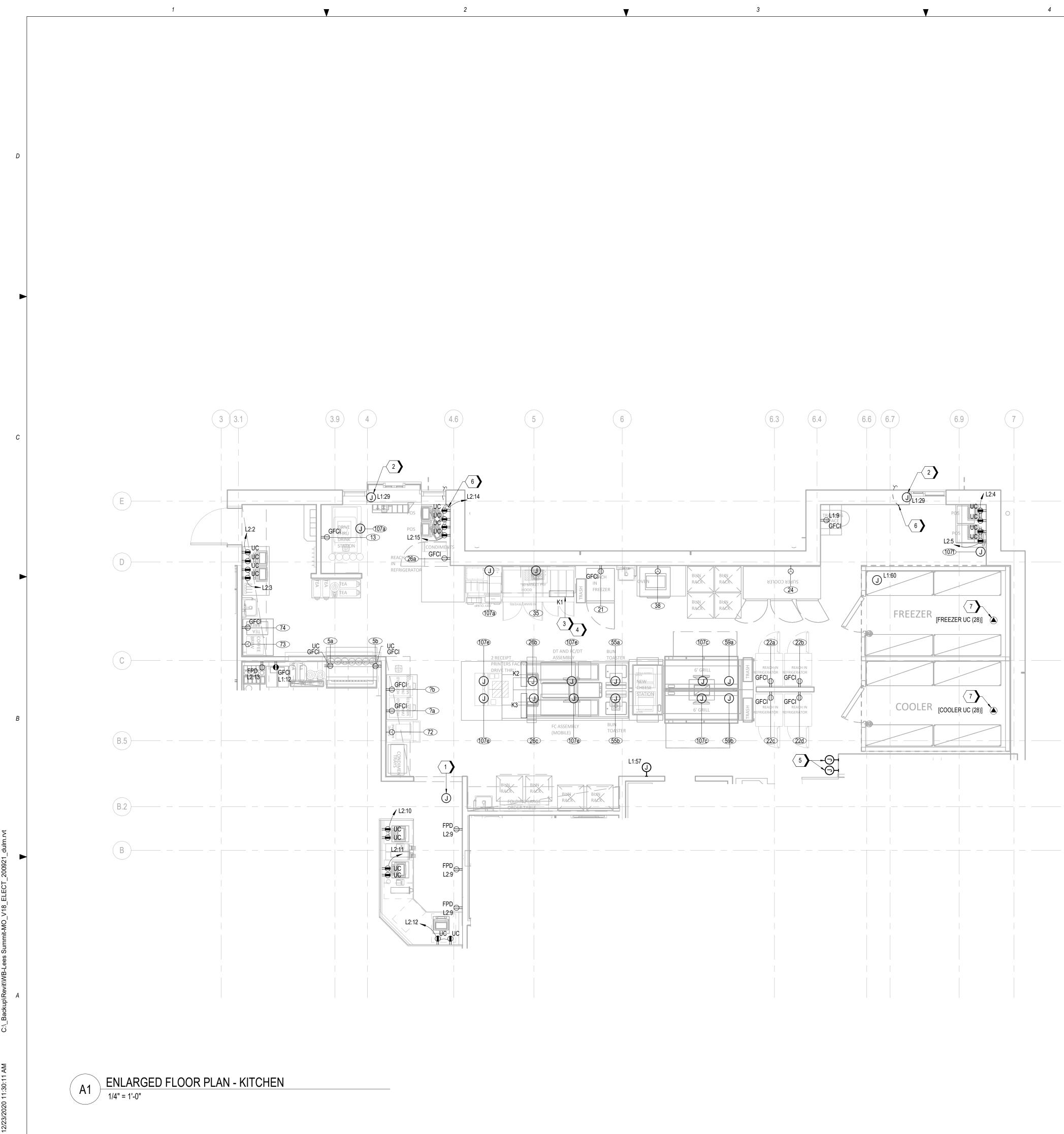
Project No.: 62-40497-01

Client Project No.:

Drawing Title:

ELECTRICAL POWER PLAN -ROOF

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- A. REFER TO SHEET E0.1 AND E0.2 FOR ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- B. VERIFY ALL POWER AND TELEPHONE COMPANY REQUIREMENTS PRIOR TO ALL INSTALLATIONS.
- C. LEAVE A PULL WIRE IN ALL EMPTY CONDUITS.
- D. ELECTRICAL CONTRACTOR SHALL ROUTE UNDERFLOOR POWER WIRING IN CONDUITS TO KITCHEN PANELS AS REQUIRED.
- E. ELECTRICAL KITCHEN EQUIPMENT SCHEDULE IS ONLY SHOWN FOR REFERENCE. COORDINATE ALL KITCHEN RECEPTACLES, EQUIPMENT CONNECTIONS, AND INSTALLATION WITH KITCHEN DRAWINGS AND EQUIPMENT SUPPLIER. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR PRE-WIRED KITCHEN PANELS AND FOR ADDITIONAL EQUIPMENT LISTING AND REQUIREMENTS.
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- G. ELECTRICAL CONTRACTOR SHALL CONNECT ALL INTERNAL WIRING (CORD SETS) BETWEEN VENTILATION STAND AND PASS-THROUGH STAND. CONNECTIONS SHALL BE COMPLETE AND TESTED BEFORE ACCEPTANCE.
- H. CENTER ISLAND KITCHEN EQUIPMENT IS PROVIDED PREWIRED TO EQUIPMENT CONTRACTORS.
- I. ALL JUNCTION BOXES SERVING ISOLATED GROUND RECEPTACLES, SHALL BE LABELED "REGISTER."
- J. ALL ISOLATED GROUND SPLICES SHALL BE MADE WITH CRIMP TYPE CONNECTORS. WIRE NUTS ARE NOT ACCEPTABLE.
- K. REFER TO KITCHEN EQUIPMENT PLANS FOR EXACT LOCATION OF ELEC. CONDUIT STUB-UPS AT COOK LINES.
- L. ALL KITCHEN 115 AND 120 VAC RECEPTACLES SHALL BE GFCI PROTECTED PER NEC AND LOCAL AHJ.
- M. REFER TO SHEET E6.1 FOR KITCHEN EQUIPMENT SCHEDULE.

KEYNOTES

1	PROVIDE CEILING MOUNTED JUNCTION BOX FOR SECURITY. PROVIDE 3/4" CONDUIT WITH NYLON PULL STRING FROM ELECTRICAL PANEL AREA TO JUNCTION BOX.
2	PROVIDE JUNCTION BOX FOR POWER CONNECTION TO DRIVE-THRU WINDOW. COORDINATE WITH KITCHEN EQUIPMENT DRAWINGS FOR EXACT LOCATION AND CONNECTION REQUIREMNETS.
3	PROVIDE 3/4" UNDERGROUND CONDUIT FOR POWER TO ANSUL FIRE SUPRESSION SYSTEM.
4	PRE-WIRED KITCHEN ELECTRICAL PANELS FURNISHED BY EQUIPMENT SUPPLIER. ACTUAL LOCATION DETERMINED BY EQUIPMENT SUPPLIER AND SHOWN FOR REFERENCE ONLY. REFER TO KITCHEN EQUIPMENT SUPPLIER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.
5	INSTALL RACO #294 4" OCTAGON BOX MOUNTED FLUSH IN WALL 48" ABOVE FINISHED FLOOR WITH 1/2" CONDUIT ROUTED TO ABOVE CEILING WITH PULLWIRE FOR ANSUL PULLSTATION.
6	STUB UP 3/4" PVC 88" ABOVE FINISHED FLOOR FOR LOW VOLTAGE FOR DRIVE-THRU SENSOR. REFER TO SHEET E1.1 FOR CONTINUATION.
7	REFER TO KITCHEN EQUIPMENT SUPPLIER FOR TIME CLOCK AND LOCAL DISCONNECTING MEANS IN FREEZER/COOLER.



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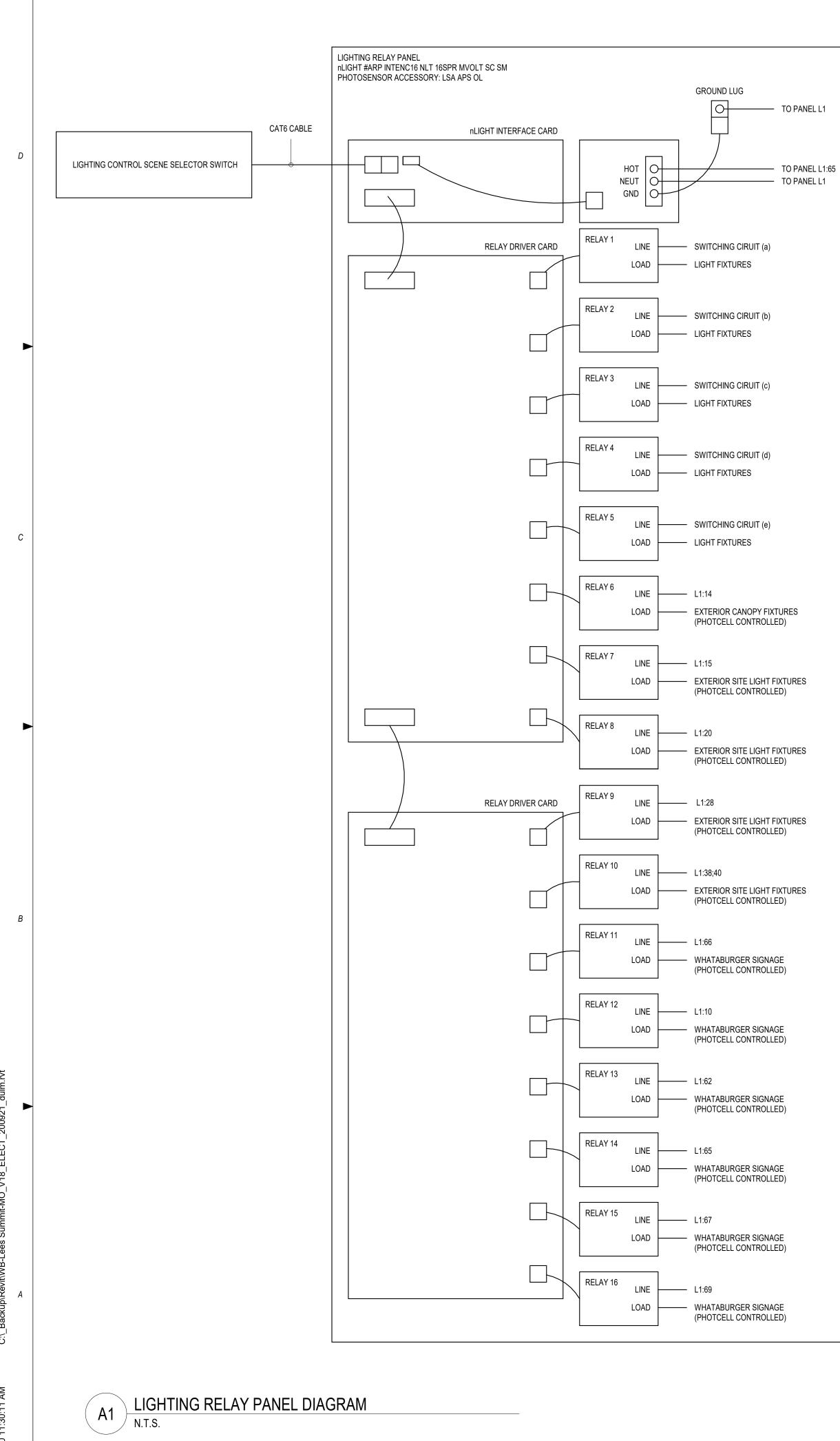
Project No.: 62-40497-01

Client Project No.:

Drawing Title:

ELECTRICAL ENLARGED PLANS

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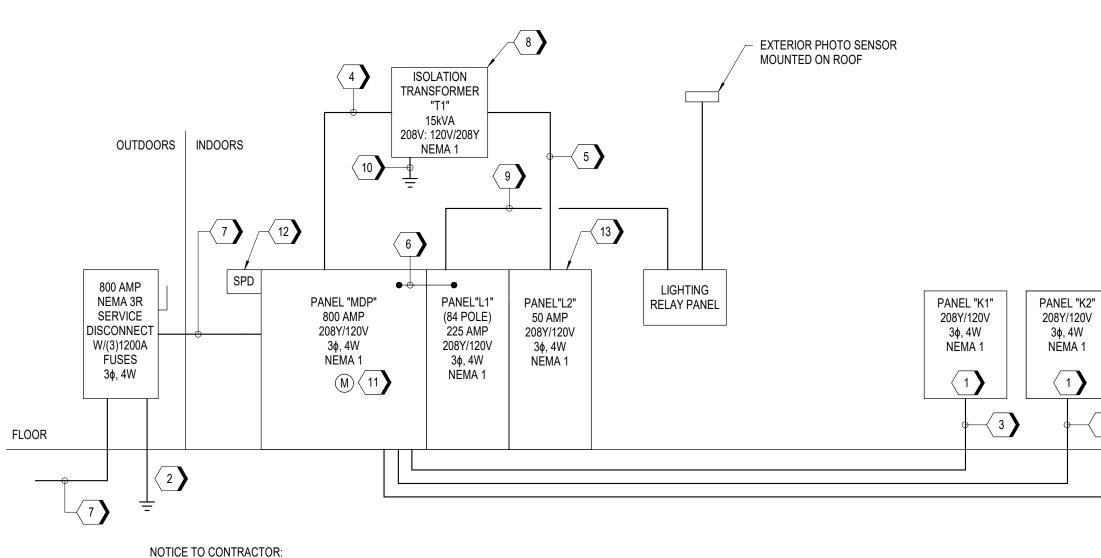
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ELECTRICAL SERVICE DEMAND LOAD ANALYSIS NEC 220.88 - NEW RESTURANT LOAD CALCULATION TOTAL CONNECTED: 385.5 KVA

SYSTEM VOLTAGE: 208Y/120V, 3-PHASE, 4-WIRE+GND

TABLE 220.88 (ALL ELECTRIC LOADS) 326 KVA - 800 KVA: 50% * (TOTAL CONNECTED - 325 KVA) + 172.5 KVA 50%*(418.7-325)+172.5 = 219.3 KVA

202.7 KVA @ 208V, 3-PHASE = 608.8 A DEMAND



4

V

PROVIDE COORDINATION AND ARCFLASH LABELS IN ACCORDANCE WITH NEC 240.87.

SINGLE LINE DIAGRAM A3 N.T.S.

5 **KEYNOTES** FURNISED BY KITCHEN EQUIPMENT SUPPLIER, COORDINATE WITH SUPPLIER FOR FINAL LOCATIONS. CIRCUITS ARE PREWIRED TO EQUIPMENT, FEEDERS BY CONTRACTOR, COORDINATE AND RESIZE WHERE REQUIRED. GROUNDING SHALL BE PER NEC. FURNISH AND INSTALL 3/4"X10'-0' GROUND ROD AT A CONCRETE ENCASED ELECTRODE. CONNECT THE BUILDING SERVICE GROUND TO THE GROUND ROD, ENCASED ELECTRODE AND DOMESTIC COLD WATER PIPING WITH BARE #3/0 COPPER CONDUCTOR. BONDING SHALL BE PER NEC. REFER TO C3/E5.2. 3 4#1/0, #6 GND, IN 2"C. 4 3#6, #10 GND, IN 1"C. 5 4#6, #10 GND, IN 1"C. 6 4#4/0, #4 GND, IN 2-1/2"C. 7 (2 SETS) 4-600 kCMIL, #1/0 GND, IN EACH 3-1/2"C. 8 PROVIDE ISOLATION TRANSFORMER. SUSPEND TRANSFORMER FROM STRUCTURE, REFER TO DETAIL B1/E5.2 9 2#12, #12 GND, IN 3/4"C. 10 #8 GROUNDING ELECTRODE CONDUCTOR. 11 PROVIDE DIGITAL LCD kWh DEMAND METER. 12 PROVIDE 240 kA SURGE PROTECTIVE DEVICE.

13 PROVIDE MODULAR PANELBOARD SYSTEM (SQUARE D CATALOG: MPS) FOR PANELS MDP, L1, AND L2.

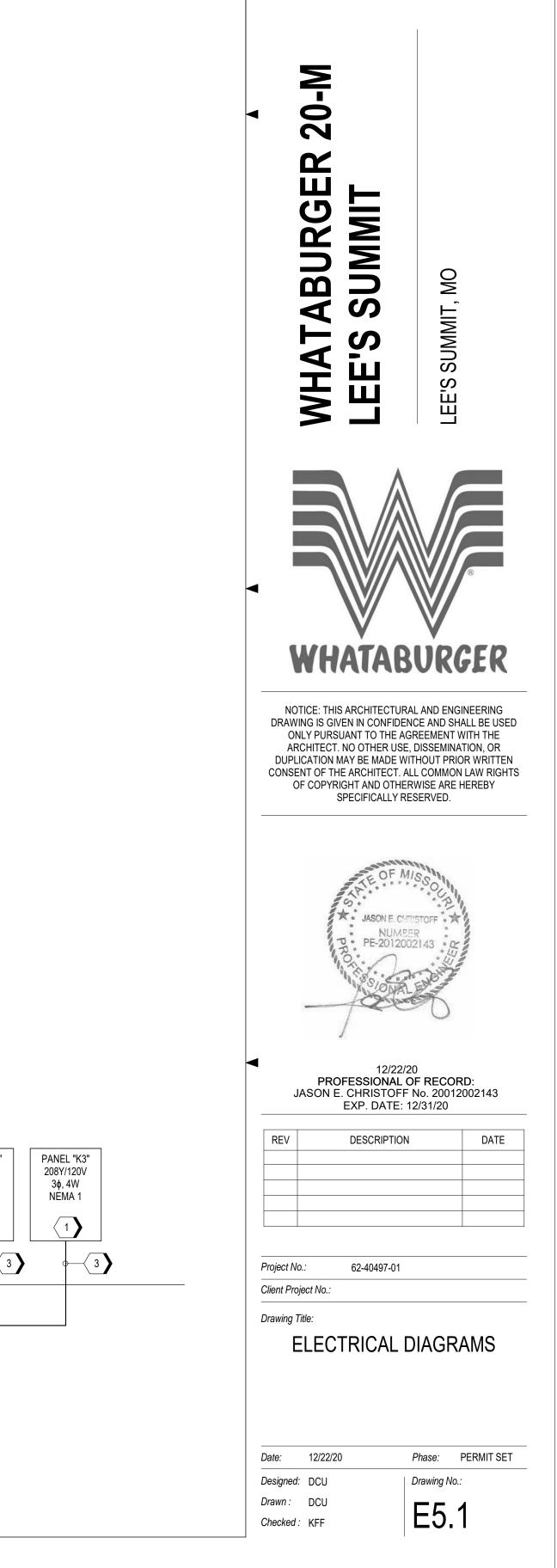
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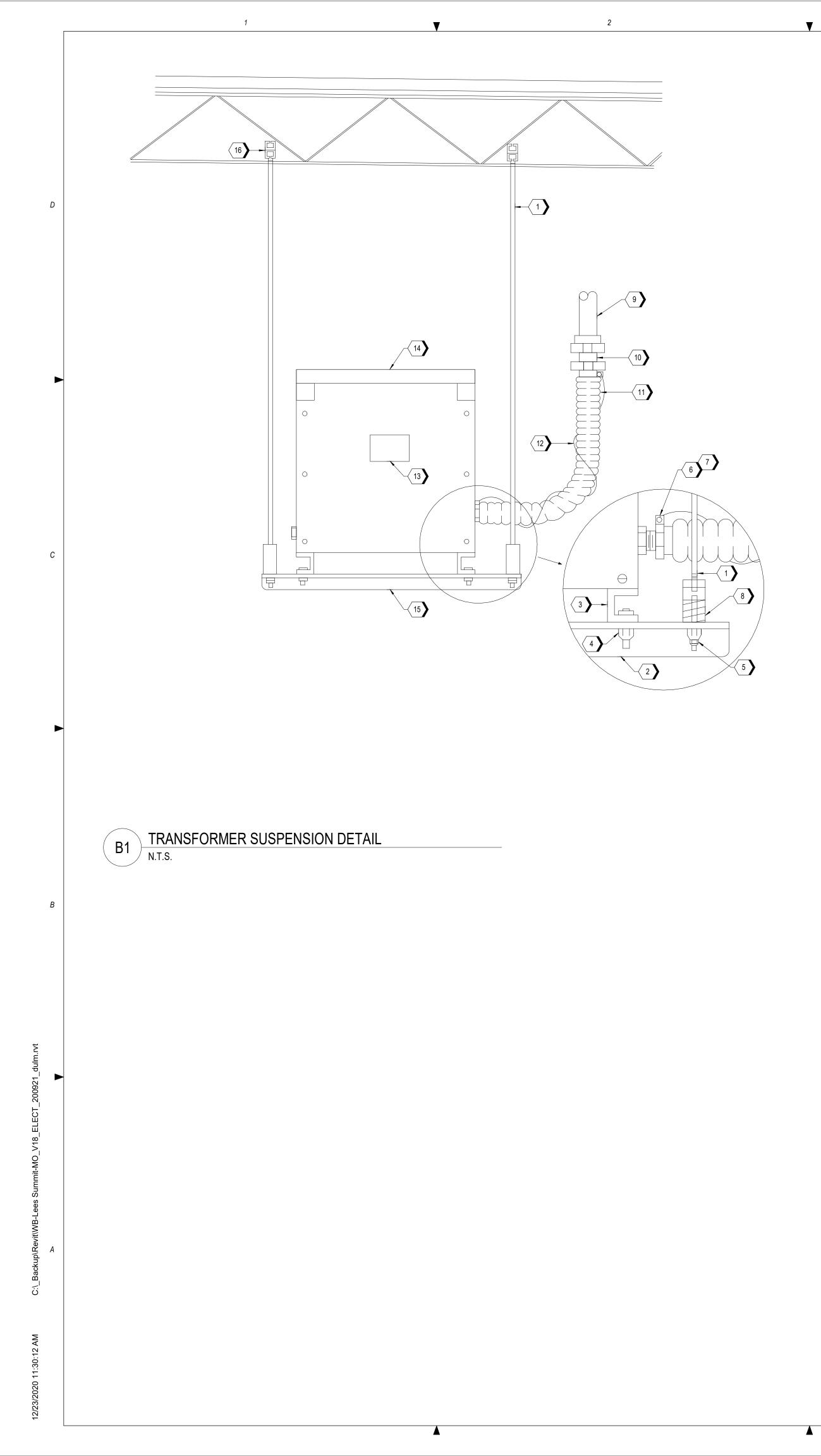
NEMA 1

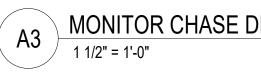
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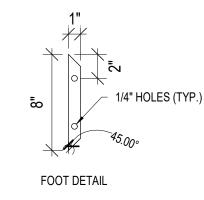






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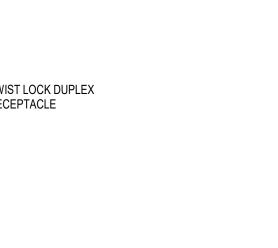


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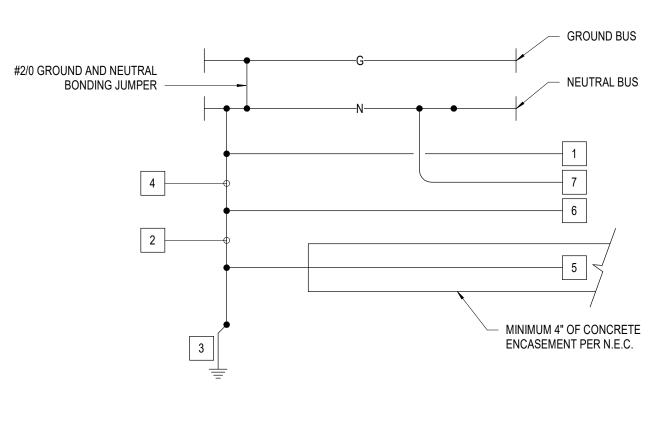
ρ 1" CONDUIT STUB UP TWIST LOCK DUPLEX
 RECEPTACLE - Ψ<u>></u> ιι **1**0 ÷

- FOOT

C3



SERVICE ENTRANCE GROUNDING DETAIL N.T.S.



4

5 **KEYNOTES** 1 1/2" DIAMETER THREADED STEEL ROD SUPPORT FROM STRUCTURE ABOVE. 2 ANGLE IRON SUPPORT 3" x 3" TO REQ'D. LENGTH TO SUIT. 3 TRANSFORMER BASE CHANNEL. 4 1/2" DIAMETER NUT, BOLT & WASHER 4 REQUIRED. 5 1/2" DIAMETER NUT, LOCKNUT & LOCKWASHER 4 REQUIRED. 6 SECONDARY CONNECTION DETAIL, PRIMARY - SIMILAR. 7 GROUND CONNECTOR. 8 VIBRATION ELIMINATOR 4 REQUIRED. 9 RIGID CONDUIT. 10 COMBINATION COUPLING. 11 LIQUID TIGHT FLEXIBLE METAL CONDUIT 18" MIN. 12 EXTERNAL COPPER BONDING WIRE. 13 NAMEPLATE-CONNECTION DIAGRAM. 14 TRANSFORMER. 15 BOTTOM OF SUPPORT OR ANY DEVICE SHALL NOT BE LESS THAN 7'-0" ABOVE FINISHED FLOOR. 16 PROVIDE MISCELLANEOUS STEEL SPAN TO THE NEXT JOIST AS REQ'D. TO CONN. TO STRUCTURE. SUBMIT



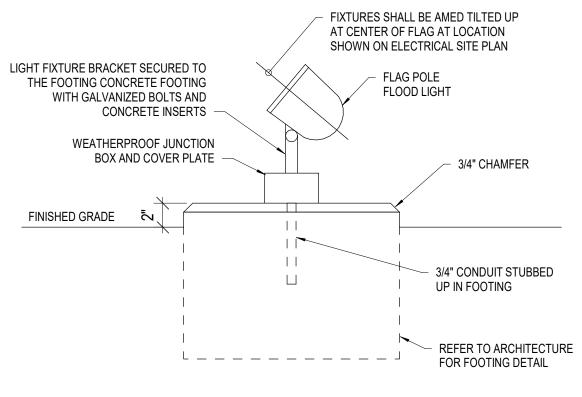
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SERVICE GROUNDING NOTES:

PROVIDE 1#3/0 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT, CONNECTED TO BUILDING STRUCTURAL STEEL.

DETAIL FOR STRUCTURAL ENGINEER APPROVAL.

- PROVIDE 1#3/0 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT,
- CONNECTED TO COPPER CLAD STEEL GROUND ROD
- PROVIDE A 3/4" DIAMETER X 10'-0" LONG COPPER CLAD STEEL GROUND ROD AND CONNECT TO COLD WATER LINE FOR SERVICE ENTRANCE
- PROVIDE 1#3/0 GROUNDING ELECTRODE CONDUCTOR IN 1" CONDUIT 4
- PROVIDE 1#3/0 CONCRETE ENCASED GROUNDING ELECTRODE WITH A MINIMUM LENGTH OF 20'-0".
- PROVIDE 1#3/0 GROUNDING ELECTRODE CONDUCTOR TO COLD WATER METAL PIPE GROUND CLAMP.
- 1#6 EQUIPMENT GROUND CONDUCTOR IN 3/4" CONDUIT, CONNECTED TO 7 TELEPHONE TERMINAL BACKBOARD.



FLAG POLE FLOOD LIGHT N.T.S.



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WHATABURGER

NOTICE: THIS ARCHITECTURAL AND ENGINEERING DRAWING IS GIVEN IN CONFIDENCE AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH THE ARCHITECT. NO OTHER USE, DISSEMINATION, OR DUPLICATION MAY BE MADE WITHOUT PRIOR WRITTEN CONSENT OF THE ARCHITECT. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.



12/22/20 PROFESSIONAL OF RECORD: JASON E. CHRISTOFF No. 20012002143 EXP. DATE: 12/31/20

DESCRIPTION	DATE
	DESCRIPTION

Project No.: 62-40497-01

Client Project No.:

Drawing Title:

ELECTRICAL DETAILS

Date:	12/22/20	Phase:	PERMIT SET
Designed:	DCU	Drawing No).:
Drawn :	DCU		つ
Checked :	R. ORTIZ	E5.	Ζ

			LIGHTING FIXTU	RE SCHI
TYPE	MANUFACTURER	MODEL	DESCRIPTION	LAMP
А	LITHONIA	2GTL 2 20L GZ10 LP840	2'X2' RECESSED TROFFER (4000K COLOR TEMPERATURE, 80 CRI)	LED
A2	LITHONIA	2GTL 2 48L GZ10 LP840 ABC	GASKETED 2'X2' RECESSED TROFFER (4000K COLOR TEMPERATURE, 80 CRI)	LED
A2E	LITHONIA	2GTL 2 48L GZ10 LP840 E10WLCP ABC	GASKETED 2'X2' RECESSED TROFFER WITH EMERGENCY BATTERY PACK (4000K COLOR TEMPERATURE, 80 CRI)	LED
AE	LITHONIA	2GTL 2 20L GZ10 LP840 E10WLCP	2'X2' RECESSED TROFFER WITH EMERGENCY BATTERY PACK (4000K COLOR TEMPERATURE, 80 CRI)	LED
В	LITHONIA	LDN4SQ 40/10 LS4AR LSS MVOLT GZ10	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMPERATURE, 80 CRI)	LED
B1	LITHONIA	LDN4SQ 40/15 LS4AR LSS MVOLT GZ10	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMPERATURE, 80 CRI)	LED
С	LITHONIA	CLX L36 2250LM SEF FDL MVOLT GZ10 40K 80CRI	36" INDUSTRIAL STRIP (4000K COLOR TEMPERATURE, 80 CRI)	LED
D	MARK	SL4L LOP 4FT FLP [TRIM] 80CRI 40K 600LMF MIN1 120 ZT	4' LINEAR RECESSED SLOT (4000K COLOR TEMPERATURE, 80 CRI)	LED
D1	MARK	SL4L LOP [LENGTH] FLP [TRIM] 80CRI 40K 600LMF MIN1 120 ZT (90DEG CORNERS)	LINEAR RECESSED SLOT, LENGTH AS INDICATED ON DRAWINGS (4000K COLOR TEMPERATURE, 80 CRI)	LED
F	TARGETTI	DURATAPE IP66 PRAP-W	FLEXIBLE LINEAR LIGHT STRIP FOR CONTINUOUS CONSTANT COLOR.	LED
S1	TECHLIGHT	CTL-N-35L-T3-1	POLE MOUNTED SINGLE HEAD LED TYPE 3 AREA FIXTURE (4000K COLOR TEMPERATURE).	LED
S1-2	TECHLIGHT	CTL-N-20L-T3-1	POLE MOUNTED DOUBLE HEAD 180 DEGREES LED TYPE 5 AREA FIXTURE (4000K COLOR TEMPERATURE).	LED
S1-29	TECHLIGHT	CTL-N-35L-T5W-1	POLE MOUNTED DOUBLE HEAD 90 DEGREES LED TYPE 3 AREA FIXTURE (4000K COLOR TEMPERATURE).	LED
S2	BEGA	99 777 SLV / 84/623 SLV	LED BOLLARD (4000K COLOR TEMPERATURE).	LED
S3	LITHONIA	DSCW1 10C 530 40K T3M MVOLT PE DDBXD	FAÇADE EXTERIOR WALL PACK.	LED
S4	LITHONIA	TWS LED P1 50K MVOLT PE DDB	EXTERIOR WALL PACK.	LED
S5	LITHONIA	OLBF 8 30K DDB	LED FLAG POLE BULLET FLOOD LIGHT	LED
S6	LITHONIA	LDN4 40/15 LO4AR LSS MVOLT GZ10	4" RECESSED SQUARE LED DOWNLIGHT CLEAR, SEMI-SPECULAR REFLECTOR (4000K COLOR TEMPERATURE, 80 CRI)	LED
Х	LITHONIA	LRP 1 RC 120/277 EL N	EXIT SIGN	LED

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EQUIPMENT CONNECTION SCHEDULE

120 V

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TAG	DISCONNECT RATING (AMP/VOLTAGE/POLE/FUSE/NEMA RAITING)	HP	kW	FLA	STARTER TYPE	VOLTAGE/POLES	LOAD	CIRCUIT NUMBER	WIRE & CONDUIT	COMMENTS		
COOLER CU (28)	30/240/2/NF/NEMA 3R	1	-	12	-	208 V/2	2496 VA	MDP-30,32	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.		
COOLER UC (28)	30/240/2/NF/NEMA 3R	-	-	2	-	208 V/2	2767 VA	L1-46,48	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.		
EF-1	-	1/20	-	-	-	120 V/1	150 VA	L1-4	2#12, #12 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER		
EWH-1	60/240/3/NF/NEMA 1		10			208 V/3	10000 VA	MDP-14,16,18	3#8, #10 GND IN 3/4"C			
FREEZER CU (28)	60/240/2/NF/NEMA 3R	3	-	30	-	208 V/2	6240 VA	MDP-26,28	2#8, #10 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.		
FREEZER UC (28)	30/240/2/NF/NEMA 3R	-	-	13.3	-	208 V/2	2767 VA	L1-53,55	2#12, #12 GND IN 3/4"C	REFER TO EQUIPMENT MANUFACTURER FOR ALL INSTALLATION/CONNECTION REQUIREMENTS.		
KEF-1	-	3/4	-	-	-	208 V/2	1435 VA	L1-43,45	2#12, #12 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER		
KEF-2	-	1/4	-	-	-	208 V/2	696 VA	L1-39,41	2#12, #12 GND IN 3/4"C	INTEGRAL DISCONNECT PROVIDED BY EQUIPMENT MANUFACTURER		
RTU-1	200/240/3/NF/NEMA 3R	3	-	116.8	VFD	208 V/3	50077 VA	MDP-19,21,23	3#1/0, #6 GND IN 2"C	VFD PROVIDED BY EQUIPMENT MANUFACTURER		
RTU-2	200/240/3/NF/NEMA 3R	3	-	116.8	VFD	208 V/3	50077 VA	MDP-25,27,29	3#1/0, #6 GND IN 2"C	VFD PROVIDED BY EQUIPMENT MANUFACTURER		
RTU-3	200/240/3/NF/NEMA 3R	5	-	116.8	VFD	208 V/3	75296 VA	MDP-31,33,35	3#1/0, #6 GND IN 2"C	VFD PROVIDED BY EQUIPMENT MANUFACTURER		
UH-1	30/240/2/NF/NEMA 1	-	1.5	-	-	208 V/2	1500 VA	MDP-34,36	2#12, #12 GND IN 3/4"C			

	DISC. MEAN / MOUNTING							SCHEDULE	
DESCRIPTION	HEIGHT	HP	kW	FLA	VOLTAGE/POLES	LOAD	CIRCUIT NUMBER	WIRE & CONDUIT	COMMENTS
DUAL SIDED DRINK DISPENSER	5-20R/-	-	-	-	120 V/1	960 VA	L1-25	2#12, #12 GND IN 3/4"C	HOSPITAL GRADE RECEPTACLE, UNDER COUNTER
DUAL SIDED DRINK DISPENSER	5-20R/-	-	-	-	120 V/1	960 VA	L1-24	2#12, #12 GND IN 3/4"C	HOSPITAL GRADE RECEPTACLE, UNDER COUNTER
DRIVE THRU DRINK DISPENSER	5-20R / 24"	-	-	-	120 V/1	624 VA	L1-17	2#12, #12 GND IN 3/4"C	
ICE MAKER EVAPORATOR UNIT	5-20R / 66"	-	-	6	120 V/1	720 VA	L1-71	2#12, #12 GND IN 3/4"C	HOSPITAL GRADE RECEPTACLE
ICE MAKER EVAPORATOR UNIT	5-20R / 66"	-	-	6	120 V/1	720 VA	L1-75	2#12, #12 GND IN 3/4"C	HOSPITAL GRADE RECEPTACLE
ICE MAKER CONDENSING UNIT	30A/240V/2P/NF / -	-	-	17.6	208 V/2	3661 VA	L1-52,54	2#10, #10 GND IN 3/4"C	
ICE MAKER CONDENSING UNIT	30A/240V/2P/NF / -	-	-	17.6	208 V/2	3661 VA	L1-59,61	2#10, #10 GND IN 3/4"C	
MULTIPLEX REFRIGERATION UNIT	30A/600V/3P/NF/- / -	-	-	25.2	208 V/3	9079 VA	L1-77,79,81	3#10, #10 GND IN 3/4"C	
MULTIPLEX CONDENSER UNIT	30A/240V/2P/NF / -	-	-	1.3	208 V/2	270 VA	L1-32,34	2#12, #12 GND IN 3/4"C	
REACH IN FREEZER	5-20R / 76"	1/2	-	11.3	120 V/1	1040 VA	L1-26	2#12, #12 GND IN 3/4"C	
REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-70	2#12, #12 GND IN 3/4"C	
REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-16	2#12, #12 GND IN 3/4"C	
REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-66	2#12, #12 GND IN 3/4"C	
REACH IN REFRIGERATOR	5-20R / 76"	1/3	-	8.5	120 V/1	644 VA	L1-68	2#12, #12 GND IN 3/4"C	
SUPER COOLER	L14-20R / 76"	1	_	11	208 V/2	1830 VA	L1-42,44	2#12, #12 GND IN 3/4"C	
UNDER COUNTER REFRIGERATOR		1/6	-	-	120 V/1	420 VA	L1-8	2#12, #12 GND IN 3/4"C	
UNDER COUNTER REFRIGERATOR		1/6	_	-	208 V/2	420 VA	K2-1,3	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER
UNDER COUNTER REFRIGERATOR		1/6	-	-	208 V/2	420 VA	K3-1,3	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER
PITCO FRYER	6-50R/-	-	8.3	-	208 V/2	8258 VA	K1-1,3	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER
PITCO FRYER	6-50R / -	-	8.3	-	208 V/2	8258 VA	K1-4,6	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER
PITCO FRYER	15-60R / -	-	17	-	208 V/2	19671 VA	K1-14,16,18		PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER
PITCO FRYER	15-60R / -	-	19.7	-	208 V/3	17005 VA	K1-20,22,24	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER
HALF-SIZED CONVECTION OVEN	15-30R / -	-	7.8	22.1	208 V/3	7800 VA	L1-72,74,76	3#10, #10 GND IN 3/4"C	
BUN TOASTER	-/-	-	3.3	-	208 V/2	3300 VA	K2-2,4	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER
BUN TOASTER	-/-	-	3.3	-	208 V/2	3300 VA	K3-2,4	-	PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER
6' GRILL	-/-		36	-	208 V/2	36000 VA	K2-5,7,9		PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER
6' GRILL	-/-	-	36	-	208 V/3	36000 VA	K3-5,7,9		PREWIRED BY KITCHEN EQUIPMENT MANUFACTURER
SHAKE MACHINE	6-20R / 24"	-		13	208 V/2	2704 VA	L1-49,51	- 2#12, #12 GND IN 3/4"C	
COFFEE BREWER	L14-30R / 24	-	5.1	-	208 V/2	5100 VA	L1-49,51 L1-56,58	3#10, #10 GND IN 3/4"C	
TEA BREWER	5-20R / 24"	-	1.65	-	120 V/1	1650 VA	L1-33	2#12, #12 GND IN 3/4"C	
MOBILE GREASE CADDY	5-20R / 24	- 1/4	1.00	5.8	120 V/1	696 VA	L1-35	2#12, #12 GND IN 3/4"C	
GREASE TANK	5-20R / 66"	1/4		5.0	120 V/1	500 VA	L1-19	2#12, #12 GND IN 3/4"C	
FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L1-04	2#12, #12 GND IN 3/4 C	
		-	-	-		360 VA 360 VA	L2-7 L2-7	,	
FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1 120 V/1	360 VA 360 VA	K2-8	2#12, #12 GND IN 3/4"C	
		-	-	-				2#12, #12 GND IN 3/4"C	
FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	K3-8	2#12, #12 GND IN 3/4"C	
FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L2-8	2#12, #12 GND IN 3/4"C	
FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L2-8	2#12, #12 GND IN 3/4"C	
FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L2-8	2#12, #12 GND IN 3/4"C	
FLAT SCREEN MONITOR	L5-20R / -	-	-	-	120 V/1	360 VA	L2-8	2#12, #12 GND IN 3/4"C	
FLAT SCREEN MONITOR WALL MOUNTED HOT HOLD	L5-20R / - 5-20R / 24"	-	-	- 13	120 V/1 120 V/1	360 VA 1500 VA	L2-6 L1-30	2#12, #12 GND IN 3/4"C 2#12, #12 GND IN 3/4"C	
		-	-	1 1 2	1 1 1 1 1 1 1	16001///		1 7 2 1 7 2 1 7 1 2 1 1 1 1 1 1 1 1 2 1 / 1 2 1	

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JRE SCHEDULE

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LAMP VOLTAGE COMMENTS LUMENS WATTS MOUNTING LED CEILING 120 V 2366 18 LED 5112 120 V 42 CEILING CEILING LED 120 V 5112 42 LED CEILING 120 V 2366 18 LED CEILING 120 V 877 11 LED 120 V 1268 CEILING 18 LED 120 V 2101 SURFACE 16 LED 120 V 2227 23 CEILING CEILING 6 WATTS PER LINEAR FOOT LED 120 V 600/FT LED 111/FT CEILING 4 WATTS PER LINEAR FOOT 120 V LED 34781 249 POLE FIXTURE MOUNTED AT 25'-0" 120 V LED 69484 POLE 2 FIXTURES AT 180 DEGREE ORIENTATION MOUNTED AT 25'-0" 120 V 442 LED POLE 2 FIXTURES AT 90 DEGREE ORIENTATION MOUNTED AT 25'-0" 120 V 39950 294 LED 34 BOLLARD 120 V 768 WALL MOUNTED 12'-0" ABOVE GRADE LED WALL 120 V 2010 19 LED WALL TOP OF FIXTURE, WALL MOUNTED 1'-0" BELOW SCREEN WALL 120 V 2010 18 LED FLOOD 120 V 592 11 CEILING LED 120 V 1516 18

3

2 CEILING

LIGHTING SCHEDULE NOTE:

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V

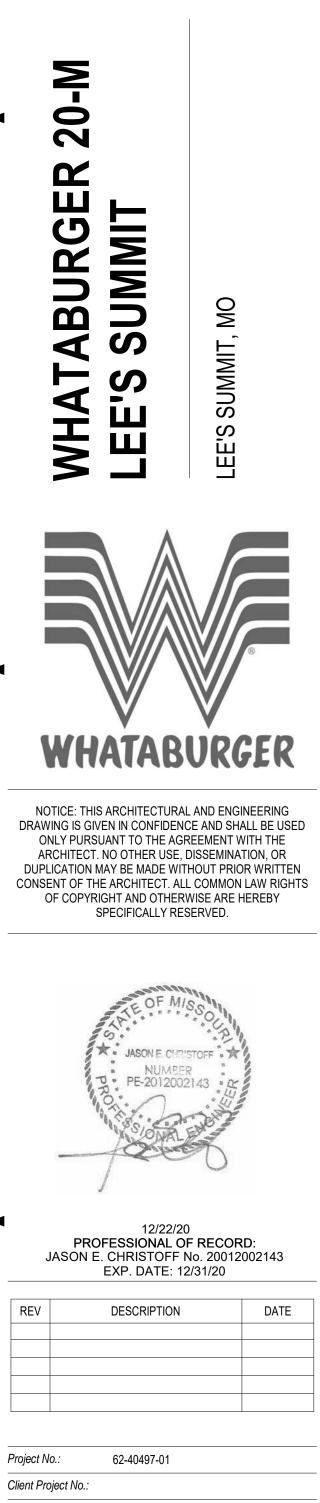
ELECTRICAL CONTRACTOR BIDDERS MUST CONTACT DAVID GALVIN WITH ARCHITECTURAL LIGHTING ALLIANCE (ALA) FOR ALL LIGHTING AND LIGHTING CONTROLS BIDS AT 214-658-9000, <u>CORPORATEACCOUNTS@ALATX.COM</u> WHATABURGER IS A REGISTERED NATIONAL ACCOUNT (NA) VIA ARCHITECTURAL LIGHTING ALLIANCE (ALA) AND HORTON CONTROLS GROUP (HCG).

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ms consultants, inc. engineers, architects, planners 2221 Schrock Road Columbus, Ohio 43229 p 614.898.7100 f 614.898.7570 www.msconsultants.com



Drawing Title:

ELECTRICAL SCHEDULES

Date:	12/22/20	Phase:	PERMIT SET
Designed:	DCU	Drawing No).:
Drawn :	DCU		1
Checked :	KFF	E6.	I

ę	Par Location: DRY STORAGE 111 Supply From: SERVICE DISCONNEC Mounting: SURFACE	nel: N ⊤			20/208 Wy	2		Mains Ty Bus Rati	r pe: MLO ng: 800 A				A.I.C. Rating:
скт	Circuit Description	Trip	Poles	5 1	4		В		С	Poles	Trip	Circui	t Description
1	PANEL 'L1'	225 A	3	24889 VA	4780 VA					3	60 A	PANEL 'L2'	
3						25512	3420 VA		05001/4				
5	 PANEL 'K1'	 150 A		19354 VA	14220 \/A			23137 VA	2520 VA		 150 A	 PANEL 'K2'	
9				10004 VA	14220 07	20483	13860						
11								18394 VA	12180 VA				
13	PANEL 'K3'	150 A	3	14220 VA	3333 VA					3	40 A	EWH-1	
15 17						13860	3333 VA		3333 VA				
17	 RTU-1	 150 A		16692 VA	0 VA			12180 VA	3333 VA	 3	 30 A	 (FUTURE) TRA	SH COMPACTOR
21				10002 171		16692	0 VA						
23								16692 VA	0 VA				
25	RTU-2	150 A	3	16692 VA	3120 VA					2	50 A	FREEZER CON	DENSER
27						16692	3120 VA		10401/4		 15 A		
29 31	 RTU-3	 225 A		25099 VA	1248 \/A			10092 VA	1248 VA	2	15 A 	COOLER CONE	
33						25099	750 VA			2		UH-1	
35								25099 VA	750 VA				
37	BUSSED SPACE			0 VA	0 VA							BUSSED SPAC	
39 41	BUSSED SPACE BUSSED SPACE					0 VA	0 VA	0 VA	0 VA			BUSSED SPAC BUSSED SPAC	
41	DUGGLU OFAGE	 Total	Load	1436	46 VA	1428	12 VA		0 VA 26 VA			DOSSED SPAC	L
Load (Classification			nected Lo	-	Design Fa		Estimated				Panel	Totals
HVAC				189720 VA		100.00%	6	18972	0 VA				
Heating	g			1500 VA		100.00%	6	1500	VA		Тс	otal Conn. Load:	418682 VA
Kitcher	n Equipment			191083 VA		65.00%		12420	4 VA			al Est. Demand:	
Lightin	g			9148 VA		100.00%		9148				I Conn. Current:	
Motor Other			6960 \	2281 VA	100	115.73% 00%		2640 960 VA	VA	Tota	l Est. D	emand Current:	970 A
Oulei								300 VA					
Recept Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS	BIS.	10260	VA	98.7	3%	1	0130 VA					
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS		2	VA Volts: 12 Phases: 3			1	Mains Ty	pe: MCB ng: 100 A				A.I.C. Rating:
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111	BIS.	2	Volts: 12				Mains Ty	ng: 100 A				A.I.C. Rating:
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE	nel: L	2	Volts: 12 Phases: 3 Wires: 4	20/208 Wye	÷		Mains Ty Bus Rati MCB Rat	ng: 100 A ing 50 A				
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS	BIS. Del: L	2 Poles	Volts: 12 Phases: 3 Wires: 4	20/208 Wye	÷	B	Mains Ty Bus Rati MCB Rat	ng: 100 A	Poles	-		A.I.C. Rating:
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE	nel: L	2	Volts: 12 Phases: 3 Wires: 4	20/208 Wye	÷		Mains Ty Bus Rati MCB Rat	ng: 100 A ing 50 A	Poles 1 1	20 A	POINT OF SALE	t Description
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE Circuit Description EXTERIOR MENU BOARDS POINT OF SALE POINT OF SALE (DRIVE THRU 1)	SIS. Trip 20 A 20 A 20 A	2 Poles	Volts: 12 Phases: 3 Wires: 4	20/208 Wye	÷	B	Mains Ty Bus Rati MCB Rat	ng: 100 A ing 50 A	1	20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE	t Description E E (DRIVE THRU 1) EN
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE Circuit Description EXTERIOR MENU BOARDS POINT OF SALE POINT OF SALE POINT OF SALE (DRIVE THRU 1) ORDER SCREENS	SIS. Trip 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4	20/208 Wye	e 720 VA	B 720 VA	Mains Ty Bus Rati MCB Rat	ng: 100 A ing 50 A	1 1 1 1	20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE ORDER SCREE	t Description E E (DRIVE THRU 1) N ENS
Notes: REFEF 2 2 3 3 5 7 9	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE Circuit Description EXTERIOR MENU BOARDS POINT OF SALE POINT OF SALE POINT OF SALE (DRIVE THRU 1) ORDER SCREENS MENU BOARD	Trip 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4	20/208 Wye	÷	B	Mains Ty Bus Rati MCB Rat	ng: 100 A ing 50 A C 360 VA	1 1 1 1	20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE ORDER SCREE POINT OF SALE	t Description E E (DRIVE THRU 1) N SNS E (DINING)
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE Circuit Description EXTERIOR MENU BOARDS POINT OF SALE POINT OF SALE POINT OF SALE (DRIVE THRU 1) ORDER SCREENS	SIS. Trip 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4	20/208 Wye	e 720 VA	B 720 VA	Mains Ty Bus Rati MCB Rat	ng: 100 A ing 50 A	1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE ORDER SCREE POINT OF SALE POINT OF SALE	t Description E E (DRIVE THRU 1) N SNS E (DINING)
Notes: REFEF 2 2 3 2 5 7 9 11	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE Circuit Description EXTERIOR MENU BOARDS POINT OF SALE POINT OF SALE (DRIVE THRU 1) ORDER SCREENS MENU BOARD POINT OF SALE (DINING) FLAT PANEL DISPLAY POINT OF SALE (DRIVE THRU 2)	SIS. Trip 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 5 1000 VA 720 VA	20/208 Wye 720 VA 1440 VA	e 720 VA	B 720 VA	Mains Ty Bus Rati MCB Rat	ng: 100 A ing 50 A C 360 VA 720 VA	1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE POINT OF SALE POINT OF SALE POINT OF SALE SPARE	t Description E (DRIVE THRU 1) N SNS E (DINING) E (DINING)
Notes: REFEF 2 2 3 3 5 7 9 11 13 15 17	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE Circuit Description EXTERIOR MENU BOARDS POINT OF SALE POINT OF SALE (DRIVE THRU 1) ORDER SCREENS MENU BOARD POINT OF SALE (DINING) FLAT PANEL DISPLAY POINT OF SALE (DRIVE THRU 2) SPARE	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 180 VA	20/208 Wye 720 VA 1440 VA 720 VA	720 VA	B 720 VA 720 VA	Mains Ty Bus Rati MCB Rat	ng: 100 A ing 50 A C 360 VA	1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE POINT OF SALE POINT OF SALE POINT OF SALE SPARE SPARE	t Description E (DRIVE THRU 1) N SNS E (DINING) E (DINING)
Notes: REFEF 1 3 5 7 9 11 13 15 17 19	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE Circuit Description EXTERIOR MENU BOARDS POINT OF SALE POINT OF SALE (DRIVE THRU 1) ORDER SCREENS MENU BOARD POINT OF SALE (DINING) FLAT PANEL DISPLAY POINT OF SALE (DRIVE THRU 2) SPARE SPARE	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 5 1000 VA 720 VA	20/208 Wye 720 VA 1440 VA	720 VA 540 VA 720 VA	B 720 VA 720 VA 0 VA	Mains Ty Bus Rati MCB Rat	ng: 100 A ing 50 A C 360 VA 720 VA	1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE POINT OF SALE POINT OF SALE POINT OF SALE SPARE SPARE SPARE	t Description E (DRIVE THRU 1) N NS E (DINING) E (DINING)
Notes: REFEF 1 3 5 7 9 11 13 15 17 19 21	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE Circuit Description EXTERIOR MENU BOARDS POINT OF SALE POINT OF SALE (DRIVE THRU 1) ORDER SCREENS MENU BOARD POINT OF SALE (DINING) FLAT PANEL DISPLAY POINT OF SALE (DRIVE THRU 2) SPARE	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 180 VA	20/208 Wye 720 VA 1440 VA 720 VA	720 VA	B 720 VA 720 VA	Mains Ty Bus Rati MCB Rat 720 VA 720 VA	ng: 100 A ing 50 A C 360 VA 720 VA 0 VA	1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE POINT OF SALE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE	t Description E (DRIVE THRU 1) N SNS E (DINING) E (DINING)
Notes: REFEF 1 3 5 7 9 11 13 15 17 19	R TO SHEET E5.1 FOR LOAD ANALYS Par Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE Circuit Description EXTERIOR MENU BOARDS POINT OF SALE POINT OF SALE (DRIVE THRU 1) ORDER SCREENS MENU BOARD POINT OF SALE (DINING) FLAT PANEL DISPLAY POINT OF SALE (DRIVE THRU 2) SPARE SPARE SPARE	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 180 VA	20/208 Wye 720 VA 1440 VA 720 VA	720 VA 540 VA 720 VA	B 720 VA 720 VA 0 VA	Mains Ty Bus Rati MCB Rat	ng: 100 A ing 50 A C 360 VA 720 VA	1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE POINT OF SALE POINT OF SALE POINT OF SALE SPARE SPARE SPARE	t Description E (DRIVE THRU 1) N NS E (DINING) E (DINING)
Notes: REFEF 1 3 5 7 9 11 13 15 17 19 21 23 25 27	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 180 VA	20/208 Wye	720 VA 540 VA 720 VA	B 720 VA 720 VA 0 VA	Mains Ty Bus Rati MCB Rat 720 VA 720 VA 720 VA	ng: 100 A ing 50 A C 360 VA 720 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE POINT OF SALE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	t Description E (DRIVE THRU 1) N SNS E (DINING) E (DINING)
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 720 VA 180 VA 180 VA	20/208 Wye	720 VA 540 VA 720 VA	B 720 VA 720 VA 720 VA 0 VA	Mains Ty Bus Rati MCB Rat 720 VA 720 VA	ng: 100 A ing 50 A C 360 VA 720 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE POINT OF SALE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	t Description E (DRIVE THRU 1) N NS E (DINING) E (DINING) E (DRIVE THRU 2)
Notes: REFEF CKT 1 3 5 7 9 11 13 5 7 9 11 13 15 17 19 21 23 25 27 29 31	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 180 VA	20/208 Wye	720 VA 540 VA 540 VA 720 VA	B 720 VA 720 VA 720 VA 0 VA 0 VA	Mains Ty Bus Rati MCB Rat 720 VA 720 VA 720 VA	ng: 100 A ing 50 A C 360 VA 720 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE POINT OF SALE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE BUSSED SPAC	t Description E (DRIVE THRU 1) N NS E (DINING) E (DINING) E (DRIVE THRU 2) E
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 720 VA 180 VA 180 VA	20/208 Wye	720 VA 540 VA 720 VA	B 720 VA 720 VA 720 VA 0 VA	Mains Ty Bus Rati MCB Rat 720 VA 720 VA 720 VA	ng: 100 A ing 50 A C 360 VA 720 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE POINT OF SALE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE	t Description (DRIVE THRU 1) N NS (DINING) (DINING) (DRIVE THRU 2) E E E
Notes: REFEF 1 3 5 7 9 11 13 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 720 VA 180 VA 180 VA	20/208 Wye	720 VA 540 VA 540 VA 720 VA 0 VA 0 VA	B 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA	Mains Ty Bus Rati MCB Rat 720 VA 720 VA 720 VA	ng: 100 A ing 50 A C 360 VA 720 VA 0 VA 0 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE ORDER SCREE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE BUSSED SPAC BUSSED SPAC BUSSED SPAC	t Description E (DRIVE THRU 1) N NS E (DINING) E (DRIVE THRU 2) CORIVE THRU 2) E E E E E E E
Notes: REFEF	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 720 VA 180 VA 180 VA 0 VA 0 VA	20/208 Wye	720 VA 540 VA 540 VA 720 VA	B 720 VA 720 VA 720 VA 0 VA 0 VA	Mains Ty Bus Rati MCB Rati 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA	rg: 100 A ing 50 A 360 VA 720 VA 0 VA 0 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE ORDER SCREE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE BUSSED SPAC BUSSED SPAC BUSSED SPAC BUSSED SPAC	E E E E E E E E E E E E E E E E
Notes: REFEF CKT 1 3 5 7 9 11 13 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 33 35 37	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 720 VA 180 VA 180 VA 0 VA 0 VA 0 VA	20/208 Wye 720 VA 1440 VA 720 VA 0 VA 0 VA 0 VA	 720 VA 540 VA 540 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 	B 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA	Mains Ty Bus Rati MCB Rati 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA	rg: 100 A ing 50 A 360 VA 360 VA 720 VA 0 VA 0 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE ORDER SCREE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE BUSSED SPAC BUSSED SPAC BUSSED SPAC	t Description E (DRIVE THRU 1) N NS (DINING) (DRIVE THRU 2) (DRIVE THRU 2) E E E E E E E E E
Notes: REFEF REFEF 1 3 5 7 9 11 13 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 1000 VA 720 VA 720 VA 180 VA 180 VA 0 VA 0 VA 0 VA 0 VA	20/208 Wye 720 VA 720 VA 1440 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA	720 VA 540 VA 540 VA 720 VA 0 VA 0 VA 0 VA 0 VA	B 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA	Mains Ty Bus Rati MCB Rati 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA	C 360 VA 360 VA 720 VA 0 VA 0 VA 0 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE ORDER SCREE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE BUSSED SPAC BUSSED SPAC BUSSED SPAC BUSSED SPAC	t Description E (DRIVE THRU 1) N NS E (DINING) E (DINING) E (DRIVE THRU 2) E E E E E E E E E E E
Notes: REFEF REFEF 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 Load C	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 720 VA 720 VA 180 VA 180 VA 0 VA 0 VA 0 VA	20/208 Wye 720 VA 720 VA 1440 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA	 720 VA 540 VA 540 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 	B 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Mains Ty Bus Rati MCB Rati 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA	rg: 100 A ing 50 A 360 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE ORDER SCREE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE BUSSED SPAC BUSSED SPAC BUSSED SPAC BUSSED SPAC	t Description E (DRIVE THRU 1) N NS (DINING) (DRIVE THRU 2) (DRIVE THRU 2) E E E E E E E E E
Notes: REFEF REFEF 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 Load C	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 1000 VA 1000 VA 180 VA 180 VA 0 VA 0 VA 0 VA 0 VA 180 VA	20/208 Wye 720 VA 720 VA 1440 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA	720 VA 540 VA 540 VA 0 VA 0 VA 0 VA 0 VA	B 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Mains Ty Bus Rati MCB Rati 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA 252 Estimated	C 360 VA 360 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE ORDER SCREE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE SPARE BUSSED SPAC BUSSED SPAC BUSSED SPAC BUSSED SPAC	t Description E (DRIVE THRU 1) N NS (DINING) (DINING) (DRIVE THRU 2) (DRIVE THRU 2) E E E E E E E E E E E
Notes: REFEF REFEF 1 3 5 7 9 11 13 5 7 9 11 13 5 7 9 11 13 3 5 7 9 11 13 3 5 7 9 11 13 3 5 7 9 11 13 3 5 7 9 11 13 3 5 7 7 9 9 11 13 3 5 7 7 9 9 11 13 3 5 7 7 9 9 11 13 3 5 5 7 7 9 11 13 3 5 5 7 7 9 11 13 3 5 5 7 7 9 11 13 3 5 5 7 7 9 11 13 3 5 5 7 7 9 11 1 3 5 5 7 7 9 11 1 13 15 5 7 7 9 11 1 13 15 17 19 11 11 13 15 17 10 11 11 11 11 15 17 11 11 11 11 11 11 11 11 11 11 11 11	R TO SHEET E5.1 FOR LOAD ANALYS	SIS. Trip 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Volts: 12 Phases: 3 Wires: 4 1000 VA 1000 VA 1000 VA 180 VA 180 VA 0 VA 0 VA 0 VA 0 VA 180 VA	20/208 Wye 720 VA 720 VA 1440 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA	2 720 VA 540 VA 540 VA 0 VA 0 VA 0 VA 0 VA 0 VA 342 Design Fa 65.00%	B 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	Mains Ty Bus Rati MCB Rati 720 VA 720 VA 720 VA 0 VA 0 VA 0 VA 0 VA 252 Estimated 1638	ng: 100 A ing 50 A 360 VA 720 VA 0 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	POINT OF SALE POINT OF SALE ORDER SCREE ORDER SCREE POINT OF SALE POINT OF SALE SPARE SPARE SPARE SPARE SPARE SPARE SPARE BUSSED SPAC BUSSED SPAC BUSSED SPAC BUSSED SPAC BUSSED SPAC	t Description (DRIVE THRU 1) N NS (DINING) (DINING) (DRIVE THRU 2) (DRIVE THRU 2) E E E E E E E E E E E E E

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Location: DRY STORAGE 111 Supply From: MDP Mounting: SURFACE			F	Volts: 12 Phases: 3 Wires: 4	20/208	Wye		Mains Ty Bus Rati	7 pe: MLO ng: 225 A			A.I.C. Rating: 10,000			
скт	Circuit Description	Trip	Poles		4		в		С	Poles	Trip	Circui	t Description	СК	
1	EXIT LIGHTING	20 A	1	8 VA	95 \	/A				1	20 A	EXTERIOR LIGH	HTING	2	
3	BELL AND BUZZER	20 A	1			20 VA	150 VA			1	15 A	EF-1		4	
5		20 A	1					85 VA	144 VA	1	20 A	ROOF LIGHTIN		6	
7	MONUMENT RECEPTACLE	20 A	1	180 VA	420					1	20 A		ER REFRIGERATOR	8	
9		20 A	1			180 VA	500 VA		5401/4	1	20 A	"W" SIGNAGE		1	
11	LIGHTING SERVER AREA	20 A	1	E 40 \ / A	044.	./ A		204 VA	540 VA	1	20 A			1	
13		20 A	1	540 VA	641		044344			1	-	EXTERIOR CAN		1.	
15	MENU BOARD LIGHTING DRIVE THRU DRINK DISPENSER	20 A	1			392 VA	644 VA		692 VA	1	20 A	REACH IN REF		1	
17 19	MOBILE GREASE CADDY	20 A 20 A	1	696 VA	792			624 VA	692 VA	1	20 A 20 A	EXTERIOR SITE	-	1	
21	FIRE ALARM CONTROL PANEL	20 A	1	090 VA	192	720 VA	900 VA			1	20 A	ROOFTOP REC		2	
23	LIGHTING KITCHEN	20 A	1			720 VA	900 VA	788 VA	960 VA	1	20 A		RINK DISPENSER	2	
25	DUAL SIDED DRINK DISPENSER	20 A	1	960 VA	1040			700 VA	900 VA	1	-	REACH IN FREE		2	
27	DRIVE THRU AUDIO RECEPTACLES	20 A	1	300 VA	1040		1983 VA	7		1	20 A	EXTERIOR SITE		2	
29	DRIVE THRU WINDOW	20 A	1			1000 VA	1505 V/	1000 VA	1500 VA	1		HOT HOLD		3	
31	HOT HOLD	20 A	1	1500 VA	135	/A		1000 171	1000 1/1	2	20 A	MULTIPLEX CO		3	
33	TEA BREWER	20 A	1	1000 111	100	1650 VA	135 VA							3	
35	FLUSH VALVES	20 A	1					200 VA	360 VA	1	20 A	RTU-3 CONTRO	DL PANEL	3	
37	RTU-1 CONTROL PANEL	20 A	1	360 VA	500	VA				2	20 A		R" MONUMENT SIGN	3	
39	KEF-2	15 A	2			348 VA	500 VA							4	
41								348 VA	915 VA	2	20 A	SUPER COOLE	R	4	
43	KEF-1	15 A	2	718 VA	915	VA								4	
45						718 VA	1384 VA	4		2	20 A	COOLER UNIT	COOLER	4	
47	LIGHTING RELAY PANEL	20 A	1					360 VA	1384 VA					4	
49	SHAKE MACHINE	20 A	2	1352 VA	360 \	VA				1	20 A	EMERSON SITE	SUPERVISOR	5	
51						1352 VA	1831 VA	4		2	30 A	ICE MAKER CO	NDENSER UNIT	5	
53	FREEZER UNIT COOLER	20 A	2					1384 VA	1831 VA					5	
55				1384 VA	2550	VA				2	30 A	COFFEE BREW	ER	5	
57	RTU-2 CONTROL PANEL	20 A	1			360 VA	2550 VA	4						5	
59	ICE MAKER CONDENSING UNIT	30 A	2					1831 VA	500 VA	1	20 A	HEAT TRACE (C	CLASS 2 30mA GFCI)	6	
61				1831 VA	500 \					1	20 A	"WHATABURGE	R" SIGNAGE	6	
63	IRRIGATION CONTROLLER	20 A	1			360 VA	500 VA			1	20 A	GREASE TANK		6	
65	"WHATABURGER" SIGNAGE	20 A	1					500 VA	644 VA	1		REACH IN REF		6	
67	"W" SIGNAGE	20 A	1	500 VA	644 \					1		REACH IN REF		6	
69	"W" SIGNAGE	20 A	1			500 VA	644 VA			1		REACH IN REFE	RIGERATOR	7	
71	ICE MAKER EVAPORATOR UNIT	20 A	1					720 VA	2600 VA	3	30 A	OVEN		7	
73	GENERAL PURPOSE RECEPTACLE	20 A	1	720 VA	2600		00000							7	
75		20 A	1			720 VA	2600 VA		0.145				_	7	
77	MULTIPLEX REFRIGERATION UNIT	30 A	3	00001/4	0.14	A		3026 VA	0 VA			BUSSED SPACE		7	
79				3026 VA	0 V.							BUSSED SPACE		8	
81 83	 BUSSED SPACE					3026 VA	0 VA	0 VA	0 VA			BUSSED SPACE		8	
83	DUSSED SPACE	 Totol	Load:	0400	9 VA	055	12 VA		0 VA 37 VA			BUSSED SPACE		ð	
oad (Classification	rotal		nected Loa		Design Fa		Estimated				Danal	Totals		
IVAC				5534 VA	44	100.00		5534				r'aliel			
	Equipment			40171 VA		65.00%		2611			-	otal Conn I and	73532 \/A		
Kitchen Equipment												otal Conn. Load:			
ighting	3			9148 VA		100.009		9148				tal Est. Demand:			
Notor				2281 VA		115.739		2640		<u> </u>		I Conn. Current:	-		
Other				5600 VA		100.009		5600	VA	Tota	I Est. D	emand Current:	159 A		
Recept	acie		3060 V	'A	1	00.00%		3060 VA							

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Date:	12/22/20	Phase:	PERMIT SET
Designed:	DCU	Drawing No). <i>:</i>
Drawn :	DCU		1
Checked :	KFF	E7.	

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V

	Pa	nel: K	(1											
Location: COOKING 117 Supply From: MDP			Volts: 20 hases: 3 Wires: 4	8Y/120V	Mains Type: MLO Bus Rating: 225 A						A.I.C. Rating: 10,000			
СКТ	Circuit Description	Trip	Poles		4		В		C	Poles			t Description	(
1	PICTO FRYER SE14TE	50 A	2	4129 VA	0 VA					1		SPARE		
3						4129 VA	4129 VA	۸		2	50 A	PICTO FRYER S	SE14TE	
5									4129 VA					
7	FOOD WARMER	20 A	1	1440 VA	1080 VA					1	15 A	FOIL HEATER		
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE		
11	FOOD WARMER	20 A	1					1080 VA	0 VA	1	20 A	SPARE		
13	SPARE	20 A	1	0 VA	6557 VA					3	70 A	PICTO FRYER S	SE14	
15	SPARE	20 A	1			0 VA	6557 VA	4						
17	COMPACT FREEZER	20 A	1					960 VA	6557 VA					
19	SPARE	20 A	1	0 VA	5668 VA					3	70 A	PICTO FRYER	SE184	
21	SPARE	20 A	1			0 VA	5668 VA	4						
23	SPARE	20 A	1					0 VA	5668 VA					
25	REFRIGERATOR	20 A	1	480 VA	0 VA					1	20 A	SPARE		
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE		
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE		
		Total	Load:	1935	64 VA	204	83 VA	1839	94 VA					
Load Classification			Con	nected Loa	ad	Design Fa	ctor	Estimated	Demand			Panel	Totals	
Kitchen Equipment			58232 VA			65.00%	, 0	37851	I VA					
											Тс	otal Conn. Load:	58232 VA	
											Tot	al Est. Demand:	37851 VA	
											Tota	I Conn. Current:	162 A	
										Tota		emand Current:		

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	Pan	el: K	(3												
Location: COOKING 117 Supply From: MDP				Volts: 20 hases: 3 Wires: 4	08Y/120V			Mains Ty Bus Ratii	pe: MLO ng: 225 A				A.I.C. Rating: 10,000		
СКТ	Circuit Description	Trip	Poles		A		В		C	Poles	Trip	Circui	t Description	ск	
1	UNDERCOUNTER REFRIGERATOR	20 A	2	210 VA	1650 VA					2	20 A	BUN TOASTER	2	2	
3						210 VA	1650 VA							4	
5	72" GRIDDLE	125 A	3					12000 VA	180 VA	1	15 A	ANSUL FIRE SU		6	
7				12000 VA	360 VA					1	20 A	ORDER SCREE	N	8	
9						12000	0 VA			1		SPARE		10	
11	SPARE	20 A	1	0.1/4	0.1/0			0 VA	0 VA	1		SPARE		12	
13	SPARE	20 A	1	0 VA	0 VA	0.) (A	0.1/4			1		SPARE		14	
15	SPARE	20 A	1			0 VA	0 VA	0.1/4	0.1/4	1		SPARE		16	
17	SPARE	20 A	1	0.1/4	0.1/4			0 VA	0 VA	1		SPARE		18	
19	SPARE	20 A	1	0 VA	0 VA	0.) (A	0.1/4			1	-	SPARE		20	
21	SPARE	20 A	1			0 VA	0 VA	0.1/4	0.1/4	1		SPARE		22	
23	SPARE	20 A	1	0.)//	0.1/0			0 VA	0 VA	1		SPARE		24	
25	SPARE	20 A	1	0 VA	0 VA	0.1/4	0.)(A			1		SPARE		26	
27 29	SPARE	20 A	1			0 VA	0 VA		0 VA	1		SPARE SPARE		28	
29		Total	Load:	1400	20 VA	120	60 VA	1218	-		20 A	SPARE		30	
Lood	Classification	Total		nected Loa	-	Design Fa		Estimated				Donol	Totals		
	.oad Classification			0080 VA		80.00%		32064				Fallel	TOLDIS		
	(itchen Equipment Dther												40000.144		
Other				180 VA		100.009	/o	180 \	VA			otal Conn. Load:			
												al Est. Demand:			
											Tota	I Conn. Current:	112 A		
										Tota	l Est. D	emand Current:	90 A		

Notes: PROVIDED AND PREWIRED BY KITCHEN EQUIPMENT SUPPLIER.

1



С

В

ng: 10,000

V

2

	Pane	el: K	2											
Location: COOKING 117 Supply From: MDP				Volts: 20 hases: 3 Wires: 4	8Y/120V		Mains Type: MLO Bus Rating: 225 A				A.I.C. Rating: 10,000			
скт	Circuit Description		Trip Poles A B		в С		;	Poles	Trip		Description	СКТ		
1	UNDERCOUNTER REFRIGERATOR	20 A	2	210 VA	1650 VA					2	20 A	BUN TOASTER		2
3						210 VA	1650 VA							4
5	72" GRIDDLE	125 A	3					12000 VA	180 VA	1		ANSUL FIRE SU		6
7				12000 VA	360 VA					1		ORDER SCREE	N	8
9						12000	0 VA			1	-	SPARE		10
11	SPARE	20 A	1					0 VA	0 VA	1		SPARE		1:
13	SPARE	20 A	1	0 VA	0 VA					1		SPARE		1
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE		1
17	SPARE	20 A	1					0 VA	0 VA	1		SPARE		18
19	SPARE	20 A	1	0 VA	0 VA					1		SPARE		2
21	SPARE	20 A	1			0 VA	0 VA			1		SPARE		2
23	SPARE	20 A	1					0 VA	0 VA	1		SPARE		2
25	SPARE	20 A	1	0 VA	0 VA					1	-	SPARE		2
27	SPARE	20 A	1			0 VA	0 VA			1		SPARE		2
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE		3
		Total	Load:	1422	0 VA	13860 VA		12180 VA						
Load Classification			Con	nected Loa	ad D	Design Fa	ctor	Estimated	Demand			Panel	Totals	
Kitcher	n Equipment		40080 VA			80.00%)	32064	VA					
Other			180 VA				6	180 \	/A		Тс	otal Conn. Load:	40260 VA	
											Tot	al Est. Demand:	32244 VA	
											Tota	Conn. Current:	112 A	
										Tota	Est. D	emand Current:	90 A	
Notes:					·									

V

4

3



5

V

Date:	12/22/20	Phase:	PERMIT SET
Designed:	DCU	Drawing No). <i>:</i>
Drawn :	DCU		つ
Checked :	KFF	E7.	Ζ