## STANDARD ABBREVIATIONS

• I							MOUN	ITING
AFF	AMPERE ABOVE FINISHED FLOOR	MAX. MCB	MAXIMUM MAIN CIRCUIT BREAKER	SYMB	BOL	DESCRIPTION	LOC	HT
AF   AFG	ARC FAULT, AMP FUSE ABOVE FINISHED GRADE	MECH. MIN.	MECHANICAL MINIMUM	÷				
AIC		MLO MTD			-			
ARCH'L	ARCHITECTURAL	NC	NORMALLY CLOSED	$\left  \qquad \ominus \right $		DUPLEX RECEPTACLE	CEILING	FLUSH
AS AWG	AMP SWITCH AMERICAN WIRE GAUGE	NEC NECA	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION	⊕		DOUBLE DUPLEX RECEPTACLE		
		NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	-	-	DUPLEX GFCI RECEPTACLE		
C	CONDUIT	NFC	NATIONAL FIRE CODE		)	SIMPLEX RECEPTACLE		
CAB CAT	CABINE I CATALOG/CATEGORY	NF NIC	NON-FUSIBLE NOT IN CONTRACT		<b>)</b>			
C/B	CIRCUIT BREAKER	NL NO	NIGHT LIGHT NORMALLY OPEN		7			
CLG	CEILING	NPCO	NEVADA POWER COMPANY		•	DUPLEX GFCI RECEPTACLE		
COMM	COMMUNICATION	OCP	OVERCURRENT PROTECTION	-	)	DUPLEX RECEPTACLE, SPLIT-WIRED OCCUPANCY SENSOR CONTROLLED/SWITCHED		
CU (D), DEMO	COPPER DEMOLITION/DEMOLISH	P PH	POLE PHASE		)	DUPLEX RECEPTACLE. ISOLATED GROUND	WALL	UON
DISC.	DISCONNECT	PNL			,			
DWG	DOWN DRAWING	PVC	POLYVINYL CHLORIDE	₽	)			
EA ELECT.	EACH ELECTRICAL	PWR QTY	QUANTITY	-	)	DOUBLE DUPLEX GFCI RECEPTACLE		
ELEV FM	ELEVATOR	(R) RECEP	REMOVE AND RELOCATE RECEPTACLE	⊢ <b>€</b>	•	SPECIAL PURPOSE RECEPTACLE OUTLET		
EMT	ELECTRICAL METALLIC TUBING	REQ'D	REQUIRED	F	]	SINGLE RECEPTACLE		
EQUIP (E), EXIST	EXISTING	SCHED	SCHEDULE		7			
(ER) FBO	EXISTING ELECTRICAL RELOCATED FURNISHED BY OTHERS	SECT SP	SECTION SINGLE POLE		3			
		SN SPEC	SOLID NEUTRAL		5	DUPLEX GFCI RECEPTACLE	ABOVE COUNTER	+6" AFF
FLEX	FLEXIBLE METALLIC CONDUIT (STEEL)	SW	SWITCH	-		DUPLEX RECEPTACLE, SPLIT-WIRED OCCUPANCY SENSOR CONTROLLED/SWITCHED		UON
FLUOR	FLUORESCENT FEET OR FOOT	SWBD SWGR	SWITCHBOARD SWITCH GEAR	 _#	7		SPLASH	
GFA		SYS TEMP	SYSTEM	-#	1			
GND	GROUND	TELE	TELEPHONE	-#	]	DOUBLE DUPLEX GFCI RECEPTACLE		
HP HVAC	HORSEPOWER HEATING, VENTILATING & AIR CONDITIONING	T-STAT TTB	THERMOSTAT TELEPHONE TERMINAL BACKBOARD			MULTI-OULET ASSEMBLY (SURFACE MOUNTED		
BC MC	INTERNATIONAL BUILDING CODE	TTC TYP.	TELEPHONE TERMINAL CABINET			RACEWAY)		
N		UBC		ΗĴ	)	WALL MOUNTED CODE SIZE JUNCTION BOX		
ISC	SHORT CIRCUIT AMPERES	U.N.O.	UNLESS NOTED OTHERWISE	J	)	CODE SIZE JUNCTION BOX		VARIES
JB, J-BOX KCMIL, MCM	JUNCTION BOX THOUSAND CIRCULAR MILS	V VA	VOLT OR VOLTAGE VOLT AMPERE			JUNCTION BOX MOUNTED IN ACCESSIBLE CEILING	SEE	SEE
KVA KW	KILOVOLT AMPERE	VD VP			Ð	SPACE. MOUNT FLUSH IN FLOOR WHEN INDICATED	PLANS	PLANS
LTG	LIGHTING	W	WATT, WIRE		,	IN A FLOOR BOX STMBOL.		
		WCR WP	UL LISTED WEATHERPROOF, NEMA 3R	P		CODE SIZE PULLBOX (OR AS SIZED ON PLAN)		
		WR XFMR	WEATHER-RESISTANT TRANSFORMER	•		PUSHBUTTON (EMERGENCY POWER - EPO)		
					)	LIGHTNING PROTECTION AIR TERMINAL	ROOF	VARIES
	LIGHTING CC	NTROL	SYMBOLS		<u> </u>		10/011	
3	LUMINAIRE IDENTIFICATION SYMBOL. LETTER	INDICATES TYP	PE OF FIXTURE. NUMERAL AT TOP OF HEXAGON INDICATES		)		WALL	+44" UON
$\langle A \rangle$	QUANTITY OF FIXTURES REQUIRED. NUMBER A		HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO	CB30	/3D	ENCLOSED CIRCUIT BREAKER.		
10'-0"	BOTTOM OF FIXTORE. OMMISSION OF MOUNTI		JICATES CEILING MOONTING.	0030	/JK	UON		
Sa	LOW VOLTAGE (0-10V) WALL MOUNTED SWITCH	H FOR MANUAL	ON/OFF AND DIMMING (STEPPED/CONTINUOUS) CONTROL			NON-FUSED DISCONNECT SWITCH.		
C					30/1	UON		
<sup>⊜</sup> a,b	OF LIGHTING. "ab" INDICATES ZONE WHERE SH	I FOR MANUAL OWN ON DRAV	ON/OFF AND DIMMING (STEPPED/CONTINUOUS) CONTROL VINGS.		- /	FUSED DISCONNECT SWITCH. AMPERAGE/NEMA	VARIES	VARIES
ተ					0/3R	ENCLOSURE RATING, 3 POLE UON	SEE PLANS	SEE PLANS
þ					0/4	MOTOR STARTER. STARTER SIZE INDICATED BY NUMBER/NEMA ENCLOSURE RATING. SINGLE		
<b>\$</b> 2	TWO POLE SWITCH, 20A, 120/277V				0/1	SPEED UON		
\$_	THREE-WAY SWITCH, 20A, 120/277V					COMBINATION FUSIBLE DISCONNECT SWITCH AND		
<b>T</b> 3				│	30/3R	SIZE/AMPERAGE/NEMA ENCLOSURE RATING, 3		
<b>\$</b> 4	FOUR-WAY SWITCH, 20A, 120/277V					POLE UON		
S <sub>D</sub>	DIMMER SWITCH, MIN. 2000W, 120/277V			5	)	MOTOR. NUMBER INDICATES HORSEPOWER RATING FOR 1HP AND LARGER		
SM	HP RATED MOTOR SWITCH WITH THERMAL OVE	ERLOAD PROTI	ECTION		,		N/A	N/A
ÎVÎ				(F	У	HORSEPOWER		
SK	KEY SWITCH, 20A, 120/277V					ELOOR BOX SPECIFICATIO		
●	PUSH BUTTON CONTROL STATION							
	OCCUPANCY SENSOR - WALL MOUNTED "a" INF	DICATES CONT			SINGLI	E SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PL 10LD RFB2-OG/FPCTC WHEN SHOWN IN ON-GRADE	AN.	
⊦OSa	SEE CONTROL CONFIGURATIONS FOR MORE IN	FORMATION.			WIRE I	MOLD 6ATCP, 6ATP, OR 6ATCPAV AS REQUIRED WHEN =	I SHOWN IN A	BOVE
D	OCCUPANCY SENSOR w/ DIMMER - WALL MOUN	NTED. "a" INDIC	ATES CONTROLLED ZONE.					
HOSa	SEE CONTROL CONFIGURATIONS FOR MORE IN	FORMATION.			WIREN	IOLD RFB2-OG/FPCTC WHEN SHOWN IN ON-GRADE		
	LIGHT CONTACTOR				GRADE	MOLD 6ATCP, 6ATP, OR 6ATCPAV AS REQUIRED WHEN <u>E</u> .	I SHOWN IN A	BOVE
LU					DUALS	SERVICE POWER/DATA. DUPLEX RECEPTACLE WITH V	OICE/DATA.	
TC	TIME CLOCK				WIREM	IOLD 6ATCP, 6ATP, OR 6ATCPAV AS REQUIRED.		
OS y,(y)	1-WAY/2-WAY DIRECTIONAL CEILING MOUNTED	, NON-NETWO	RKED/ INTERCONNECTED/ NETWORKED, SYSTEM-BASED		USE SI	JRFACE COVER SELECTION IN CARPETED AREAS. US	E FLUSH CO	VER
	OCCUPANCY SENSOR. QUANTITY OF ADJACEN CIRCUITS REQUIRED - SEE CONTROL CONFIGU	IT LOWER CAS	E LETTERS INDICATES QUANTITY OF RELAYS/DIMMING W FOR MORE INFORMATION. EXACT CONTROL FUNCTION IS		SELEC	TION IN HARDWOOD, CONCRETE, TILE AND OTHER HA	ARD SURFAC	E FLOORS.
	DETERMINED BY THE BALLAST/FIXTURE TYPE.			$\mathbf{P}$	DUAL S	SERVICE POWER/DATA. QUAD RECEPTACLES WITH V( 10LD 6ATCP. 6ATP. OR 6ATCPAV AS REQUIRED.	DICE/DATA.	
(40)	AUTOMATIC CONTINUOUS DIMMING DAYLIGHTI	ING CONTROLL	ER USED TO DIM LIGHTS WHEN SUFFICIENT NATURAL LIGHT		SELEC	TION IN HARDWOOD, CONCRETE, TILE AND OTHER HA	ARD SURFAC	E FLOORS.
ут,утт	ADJACENT LOWER CASE LETTER(S) INDICATES	SWITCH LEG	S) CONTROLLED. ADJACENT "+, ++ AND *" INDICATES		DUALS	SERVICE FURNITURE FEED.		
	PORTION OF SWITCH LEG CONTROLLED BY SEI INDICATES SECONDARY SIDELIT DAYLIT ZONE,	NSOR WHERE AND "*" INDICA	TES SKYLIT DAYLIT ZONE. "++"			IOLD (2) 880-MP2 WHEN SHOWN IN ON-GRADE; 4FFAT( VE-GRADE OR APPROVED EQUAL	C SERIES WH	EN SHOWN
UNTROL CONI	-IGURATIONS:				WHEN	SHOWN WITH A DIAGONAL SLASH, THE LAST GENERAL		LE
У	"Y" INDICATES THAT SWITCH LEG "Y" TO BE CON (CONTINUOUSLY DIMMED) BY THE ASSOCIATED		"AUTO ON 100% / AUTO OFF" AND BE CONTROLLED		CIRCU	IT ON THE HOME-RUN CALLOUT SHALL BE CONTROLL PANCY SENSOR.	ED BA LHE	
V (V)			A "AUTO ON EOO/ / MANULAL ON 4000/ / AUTO OFF" AND DE		SINGLI	E SERVICE FURNITURE FEED.		
J , ( J /	y,(y) INDICATES THAT SWITCH LEG "Y" TO BE C CONTROLLED (CONTINUOUSLY DIMMED) BY TH	IE ASSOCIATEI	DISTRIBUTED LIGHTING CONTROLS.		WIREM WIREM	IOLD 880-MP2 WHEN SHOWN IN ON-GRADE IOLD RC7AFFTC SERIES WHEN SHOWN IN ABOVE-GR	ADE (POWER	:)
(y)	"(y)" INDICATES THAT SWITCH LEG "y" IS TO BE	CONFIGURED	IN A " <u>MANUAL ON /</u> AUTO OFF" (VACANCY SENSOR) AND BE		WIREM	IOLD RC9AMSTC SERIES WHEN SHOWN IN ABOVE-GR	ADE (DATA)	
	CONTROLLED BY THE ASSOCIATED DISTRIBUTI	ED LIGHTING C	ONTROLS.		PROVI	DE 24" MINIMUM BETWEEN EACH DEVICE TO MAINTAIN	N FIRE RATIN	G OF THE
					FLUUF	λ.		

==	AMPERE ABOVE FINISHED FLOOR	MAX. MCB	MAXIMUM MAIN CIRCUIT BREAKER	SYMB	CL	DESCRIPTION	
-	ARC FAULT, AMP FUSE	MECH.	MECHANICAL				LOC
C	AMPERE INTERRUPTING CAPACITY	MIN. MLO	MAIN LUGS ONLY	$ $ $\rightarrow$		SIMPLEX RECEPTACLE	
- RCH'L	ALUMINUM ARCHITECTURAL	MTD NC	MOUNTED NORMALLY CLOSED	₽		DUPLEX RECEPTACLE	
S C			NATIONAL ELECTRICAL CODE	⊕		DOUBLE DUPLEX RECEPTACLE	
	BARE COPPER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	<b>⊢</b>		DUPLEX GECLRECEPTACLE	
.DG	BUILDING CONDUIT	NEUT NFC	NEUTRAL NATIONAL FIRE CODE				
AB		NF NIC	NON-FUSIBLE NOT IN CONTRACT	P P			
B	CIRCUIT BREAKER	NL	NIGHT LIGHT			DUPLEX RECEPTACLE	
CT G	CIRCUIT CEILING	NO NPCO	NORMALLY OPEN NEVADA POWER COMPANY			DUPLEX GFCI RECEPTACLE	
D, EC	CONDUIT ONLY	NTS		<u></u>		DUPLEX RECEPTACLE, SPLIT-WIRED OCCUPANCY	
J	COPPER	P	POLE			SENSOR CONTROLLED/SWITCHED	WALL
), DEMO SC.	DEMOLITION/DEMOLISH DISCONNECT	PH PNL	PHASE PANEL	-		DUPLEX RECEPTACLE, ISOLATED GROUND	
N NO	DOWN	PV		-\$		DOUBLE DUPLEX RECEPTACLE	
	EACH	PWR	POWER				
.ECT.	ELECTRICAL FLEVATOR	QTY (R)	QUANTITY REMOVE AND RELOCATE				
Л 4Т		RECEP	RECEPTACLE	HD		SPECIAL PURPOSE RECEPTACLE OUTLET	
QUIP	EQUIPMENT	RSC	RIGID STEEL CONDUIT			SINGLE RECEPTACLE	
), EXIST R)	EXISTING EXISTING ELECTRICAL RELOCATED	SCHED SECT	SCHEDULE SECTION	=		DUPLEX RECEPTACLE	
BÓ	FURNISHED BY OTHERS	SP	SINGLE POLE	=		DUPLEX GFCI RECEPTACLE	
XT	FIXTURE	SPEC	SPECIFICATION			DUPLEX RECEPTACLE, SPLIT-WIRED OCCUPANCY	COUNTI
.ex .uor	FLEXIBLE METALLIC CONDUIT (STEEL) FLUORESCENT	SW SWBD	SWITCH SWITCHBOARD			SENSOR CONTROLLED/SWITCHED	SPLAS
-	FEET OR FOOT	SWGR	SWITCH GEAR	-#		DOUBLE DUPLEX RECEPTACLE	
-CI, GFI	GROUND FAULT ALARM GROUND FAULT CIRCUIT INTERRUPTER	TEMP	TEMPORARY	<u></u> _ш			
ND >	GROUND HORSEPOWER	TELE T-STAT	TELEPHONE THERMOSTAT				
/AC	HEATING, VENTILATING & AIR CONDITIONING	TTB	TELEPHONE TERMINAL BACKBOARD			MULTI-OULET ASSEMBLY (SURFACE MOUNTED RACEWAY)	
c	INTERNATIONAL BUILDING CODE INTERMEDIATE METAL CONDUIT	TYP.	TYPICAL				
c	INCH(ES) INTERNATIONAL RESIDENTIAL CODE	UBC UL	UNIFORM BUILDING CODE UNDERWRITERS LABORATORY	HJ)		WALL MOUNTED CODE SIZE JUNCTION BOX	
	SHORT CIRCUIT AMPERES	U.N.O. V	UNLESS NOTED OTHERWISE	J		CODE SIZE JUNCTION BOX	VARIE
CMIL, MCM	THOUSAND CIRCULAR MILS	VA	VOLT AMPERE		$\sim$	JUNCTION BOX MOUNTED IN ACCESSIBLE CEILING	
/A   V	KILOVOLT AMPERE KILOWATT	VD VP	VOLTAGE DROP VAPOR PROOF		IJ	SPACE. MOUNT FLUSH IN FLOOR WHEN INDICATED IN A FLOOR BOX SYMBOL.	
G	LIGHTING	WCR	WATT, WIRE				
		WP	UL LISTED WEATHERPROOF, NEMA 3R			CODE SIZE FULLBOX (OR AS SIZED ON FLAN)	
		WR XFMR	WEATHER-RESISTANT TRANSFORMER	•		PUSHBUTTON (EMERGENCY POWER - EPO)	
						LIGHTNING PROTECTION AIR TERMINAL	ROOF
	LIGHTING CC	<b>NTROL</b>	SYMBOLS				
3	LUMINAIRE IDENTIFICATION SYMBOL. LETTER	INDICATES TY	PE OF FIXTURE. NUMERAL AT TOP OF HEXAGON INDICATES				
$\langle A \rangle$	QUANTITY OF FIXTURES REQUIRED. NUMBER		HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO		ЗÐ	ENCLOSED CIRCUIT BREAKER. AMPERAGE/NEMA ENCLOSURE RATING, 3 POLE	
10'-0"			SIGATES CEILING MOONTING.			UON	
Sa	LOW VOLTAGE (0-10V) WALL MOUNTED SWITCH OF LIGHTING. "a" INDICATES ZONE WHERE SHO	H FOR MANUAL	ON/OFF AND DIMMING (STEPPED/CONTINUOUS) CONTROL			NON-FUSED DISCONNECT SWITCH.	
C					0/1	UON	
<sup>S</sup> a,b	LOW VOLTAGE (0-10V) WALL MOUNTED SWITCH OF LIGHTING. "ab" INDICATES ZONE WHERE SH	H FOR MANUAL	. ON/OFF AND DIMMING (STEPPED/CONTINUOUS) CONTROL VINGS.			FUSED DISCONNECT SWITCH. AMPERAGE/NEMA	VARIE
				<u> </u> [ <sup>-</sup> ] − 30	/3R	ENCLOSURE RATING, 3 POLE UON	
\$	SINGLE POLE SWITCH, 20A, 120/277V or CATSE	WIRED WALL S	WITCH TO BE USED WITH NON-DIMMING POWER/RELAY PACK			MOTOR STARTER. STARTER SIZE INDICATED BY	
<b>\$</b> <sub>2</sub>	TWO POLE SWITCH, 20A, 120/277V				/1	SPEED UON	
۰- ۴	THREE-WAY SWITCH 204 120/2771/					COMBINATION FUSIBLE DISCONNECT SWITCH AND	
<b>≱</b> ₃				1/3	)/3R	MOTOR STARTER. NEMA STARTER	
<b>\$</b> 4	FOUR-WAY SWITCH, 20A, 120/277V					POLE UON	
Sn	DIMMER SWITCH, MIN. 2000W, 120/277V			(5)	/	MOTOR. NUMBER INDICATES HORSEPOWER	
C						RATING FOR THP AND LARGER	N/A
$^{S}M$	HP RATED MOTOR SWITCH WITH THERMAL OVI	ERLOAD PROT	ECTION	(F)	/	MOTOR. "F" INDICATES FRACTIONAL	
S <sub>K</sub>	KEY SWITCH, 20A, 120/277V						
						FLOOR BOX SPECIFICATIO	NS
					SINGL	SERVICE IN FLOOR BOX. PROVIDE DEVICES PER PL	AN.
⊦OSa	OCCUPANCY SENSOR - WALL MOUNTED. "a" IN SEE CONTROL CONFIGURATIONS FOR MORE IN	DICATES CONT	ROLLED ZONE.		WIREN	IOLD RFB2-OG/FPCTC WHEN SHOWN IN ON-GRADE /IOLD 6ATCP. 6ATP. OR 6ATCPAV AS REQUIRED WHEN	N SHOWN
					GRAD	Ε.	
⊦OSa	OCCUPANCY SENSOR w/ DIMMER - WALL MOUN	NTED. "a" INDIC	ATES CONTROLLED ZONE.		TWO S	ERVICE IN FLOOR BOX. PROVIDE DEVICES PER PLAN	
=	SEE CONTROL CONFIGURATIONS FOR MORE II	NFURINATION.			WIREN	IOLD RFB2-OG/FPCTC WHEN SHOWN IN ON-GRADE /IOLD 6ATCP, 6ATP, OR 6ATCPAV AS REQUIRED WHEN	SHOWN
LC	LIGHT CONTACTOR				GRAD	Ξ.	
ТС				$\mathbb{P}^{\mathbb{Z}}$		SERVICE POWER/DATA. DUPLEX RECEPTACLE WITH V	OICE/DA
					WIREN	IOLD BATCP, BATP, OR BATCPAV AS REQUIRED.	
OS y,(y)	1-WAY/2-WAY DIRECTIONAL CEILING MOUNTED	, NON-NETWO	RKED/ INTERCONNECTED/ NETWORKED, SYSTEM-BASED		USE SI SELEC	JRFACE COVER SELECTION IN CARPETED AREAS. US TION IN HARDWOOD, CONCRETE, TILE AND OTHER HA	SE FLUSH ARD SURI
	CIRCUITS REQUIRED - SEE CONTROL CONFIGU	IRATIONS BEL	DW FOR MORE INFORMATION. EXACT CONTROL FUNCTION IS				
	DETERMINED BY THE BALLAST/FIXTURE TYPE.				WIREN	IOLD 6ATCP, 6ATP, OR 6ATCPAV AS REQUIRED.	OICLIDAI
$\frown$					USE SI	JRFACE COVER SELECTION IN CARPETED AREAS. US	SE FLUSH
(PC) (40) y+,y++	AUTOMATIC CONTINUOUS DIMMING DAYLIGHT IS PRESENT. NUMBER IN PARENTHESIS INDICA	ING CONTROLI	LER USED TO DIM LIGHTS WHEN SUFFICIENT NATURAL LIGHT RAGE WORKPLANE "TARGET ILLUMINATION" SYMBOL VALUE.		SELEC	TION IN HARDWOOD, CONCRETE, TILE AND OTHER HA	ARD SUR
<i>,</i> ,,	ADJACENT LOWER CASE LETTER(S) INDICATES	SWITCH LEG	S) CONTROLLED. ADJACENT "+, ++ AND *" INDICATES		DUAL	SERVICE FURNITURE FEED.	
	INDICATES SECONDARY SIDELIT DAYLIT ZONE,	AND "*" INDIC	ATES SKYLIT DAYLIT ZONE.		WIREN	IOLD (2) 880-MP2 WHEN SHOWN IN ON-GRADE; 4FFAT( VE-GRADE OR APPROVED EQUAL.	C SERIES
							י ח∩וםם ק
NTROL CONFI	IGURATIONS:					SHOWN WITH A DIAGONAL SLASH, THE LAST GENERA	AL RECEP
у	"y" INDICATES THAT SWITCH LEG "y" TO BE CON		"AUTO ON 100% / AUTO OFF" AND BE CONTROLLED		CIRCU	IT ON THE HOME-RUN CALLOUT SHALL BE CONTROLL PANCY SENSOR.	ED BY TH
	(CONTINUOUSLY DIMMED) BY THE ASSOCIATED	U CEILING SEN	SOR REMOTE SWITCH ON THE WALL.		SINCU		
y,(y)	"y,(y)" INDICATES THAT SWITCH LEG "y" TO BE ( CONTROLLED (CONTINUOUSLY DIMMED) BY TH	CONFIGURED I	N A " <u>AUTO ON 50%</u> / MANUAL ON 100% / AUTO OFF" AND BE D DISTRIBUTED LIGHTING CONTROLS		WIREN	IOLD 880-MP2 WHEN SHOWN IN ON-GRADE	
(v)					WIREN	IOLD RUTAFFTU SERIES WHEN SHOWN IN ABOVE-GR	ADE (PO\ ADE (DAT
(9)	(y) INDICATES THAT SWITCH LEG "Y" IS TO BE CONTROLLED BY THE ASSOCIATED DISTRIBUT	ED LIGHTING (	CONTROLS.		PR0\/I	DE 24" ΜΙΝΙΜUM BETWEEN FACH DEVICE ΤΟ ΜΔΙΝΤΔΙΙ	
					FLOOF		

## DEVICES

NOTES:

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CONDUCTORS UNO

CONDUIT CAP-OFF

	THERMOSTAT OUTLET AT +54" (HVAC UNIT DESIGNATION)
	ENCLOSED CIRCUIT BREAKER
R	RELAY
TS	TIME SWITCH
С	CONTACTOR
Т	TRANSFORMER
ATS	AUTOMATIC TRANSFER SWITCH
◀	TELEPHONE OUTLET AT +18"
$\triangleleft$	DATA OUTLET AT +18"
$\triangleleft$	COMBINATION TELE/COMPUTER OUTLET AT +18"
	TELEPHONE OUTLET ABOVE COUNTER
<b>4</b>	TELE/DATA OUTLET ABOVE COUNTER
$\triangleleft$	DATA OUTLET ABOVE COUNTER FLUSH FLOOR BOX WITH COMBINATION TELE/DAT/ OUTLET
HTV	TELEVISION OUTLET
	TELEVISION CAMERA (CCTV)
$\nabla \overline{S}$	FIRE ALARM HORN/STROBE
CR	CARD READER
(ES)	FLOW SWITCH
$\langle 1 \rangle$	TAMPER SWITCH
SD	SMOKE DETECTOR
FD	FIRE/SMOKE DAMPER
CD	CARBON MONOXIDE DETECTOR (SPECIFIED BY MECHANICAL ENGINEER)
DD	DUCT MOUNTED SMOKE DETECTOR
H	HEAT DETECTOR
$\bigcirc$	SPEAKER, CEILING OR WALL MOUNTED
DH	DOOR HOLD OPEN
NOTES: FOR 3/4"( ACE	PHONE AND DATA OUTLETS PROVIDE ONE (1) C.O. RISER UP WALL WITH PULL STRING TO SSIBLE CEILING SPACE.
	SINGLE LINE
	CIRCUIT BREAKER
$   \langle\!\langle -$	
	SERVICE CABLE TERMINATION
	SERVICE CABLE TERMINATION
	SERVICE CABLE TERMINATION FUSE FUSED DISCONNECT SWITCH
	SERVICE CABLE TERMINATION FUSE FUSED DISCONNECT SWITCH SWITCH
	SERVICE CABLE TERMINATION FUSE FUSED DISCONNECT SWITCH SWITCH SURGE SUPPRESSOR
	SERVICE CABLE TERMINATION FUSE FUSED DISCONNECT SWITCH SWITCH SURGE SUPPRESSOR CURRENT TRANSFORMER
	SERVICE CABLE TERMINATION FUSE FUSED DISCONNECT SWITCH SWITCH SURGE SUPPRESSOR CURRENT TRANSFORMER POTENTIAL TRANSFORMER
	SERVICE CABLE TERMINATION FUSE FUSED DISCONNECT SWITCH SWITCH SURGE SUPPRESSOR CURRENT TRANSFORMER POTENTIAL TRANSFORMER GROUNDING ELECTRODE
	<ul> <li>SERVICE CABLE TERMINATION</li> <li>FUSE</li> <li>FUSED DISCONNECT SWITCH</li> <li>SWITCH</li> <li>SURGE SUPPRESSOR</li> <li>CURRENT TRANSFORMER</li> <li>POTENTIAL TRANSFORMER</li> <li>GROUNDING ELECTRODE</li> <li>POWER METER</li> </ul>
	<ul> <li>SERVICE CABLE TERMINATION</li> <li>FUSE</li> <li>FUSED DISCONNECT SWITCH</li> <li>SWITCH</li> <li>SURGE SUPPRESSOR</li> <li>CURRENT TRANSFORMER</li> <li>POTENTIAL TRANSFORMER</li> <li>GROUNDING ELECTRODE</li> <li>POWER METER</li> <li>MOTOR</li> </ul>
	<ul> <li>SERVICE CABLE TERMINATION</li> <li>FUSE</li> <li>FUSED DISCONNECT SWITCH</li> <li>SWITCH</li> <li>SURGE SUPPRESSOR</li> <li>CURRENT TRANSFORMER</li> <li>POTENTIAL TRANSFORMER</li> <li>GROUNDING ELECTRODE</li> <li>POWER METER</li> <li>MOTOR</li> <li>GENERATOR</li> </ul>
	<ul> <li>SERVICE CABLE TERMINATION</li> <li>FUSE</li> <li>FUSED DISCONNECT SWITCH</li> <li>SWITCH</li> <li>SURGE SUPPRESSOR</li> <li>CURRENT TRANSFORMER</li> <li>POTENTIAL TRANSFORMER</li> <li>GROUNDING ELECTRODE</li> <li>POWER METER</li> <li>MOTOR</li> <li>GENERATOR</li> <li>SHUNT TRIP</li> </ul>
$\begin{bmatrix} \mathbf{r} \\ \mathbf{r} $	SERVICE CABLE TERMINATIONFUSEFUSED DISCONNECT SWITCHSWITCHSWITCHSURGE SUPPRESSORCURRENT TRANSFORMERPOTENTIAL TRANSFORMERGROUNDING ELECTRODEPOWER METERMOTORGENERATORSHUNT TRIPGROUND FAULT INTERRUPT
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	SERVICE CABLE TERMINATIONFUSEFUSED DISCONNECT SWITCHSWITCHSWITCHSURGE SUPPRESSORCURRENT TRANSFORMERPOTENTIAL TRANSFORMERGROUNDING ELECTRODEPOWER METERMOTORGENERATORSHUNT TRIPGROUND FAULT INTERRUPTTRANSFER SWITCH
	SERVICE CABLE TERMINATION FUSE FUSED DISCONNECT SWITCH SWITCH SWITCH SURGE SUPPRESSOR CURRENT TRANSFORMER POTENTIAL TRANSFORMER POTENTIAL TRANSFORMER POWER METER MOTOR GENERATOR SHUNT TRIP GROUND FAULT INTERRUPT TRANSFER SWITCH CONTACT (NORMALLY OPEN)
	SERVICE CABLE TERMINATIONFUSEFUSED DISCONNECT SWITCHSWITCHSWITCHSURGE SUPPRESSORCURRENT TRANSFORMERPOTENTIAL TRANSFORMERGROUNDING ELECTRODEPOWER METERMOTORGENERATORSHUNT TRIPGROUND FAULT INTERRUPTTRANSFER SWITCHCONTACT (NORMALLY OPEN)CONTACT (NORMALLY CLOSED)
	SERVICE CABLE TERMINATIONFUSEFUSED DISCONNECT SWITCHSWITCHSWITCHSURGE SUPPRESSORCURRENT TRANSFORMERPOTENTIAL TRANSFORMERGROUNDING ELECTRODEPOWER METERMOTORGENERATORSHUNT TRIPGROUND FAULT INTERRUPTTRANSFER SWITCHCONTACT (NORMALLY OPEN)CONTACT (NORMALLY CLOSED)TIME SWITCH
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	SERVICE CABLE TERMINATIONFUSEFUSED DISCONNECT SWITCHSWITCHSWITCHSURGE SUPPRESSORCURRENT TRANSFORMERPOTENTIAL TRANSFORMERGROUNDING ELECTRODEPOWER METERMOTORGENERATORSHUNT TRIPGROUND FAULT INTERRUPTTRANSFER SWITCHCONTACT (NORMALLY OPEN)CONTACT (NORMALLY CLOSED)TIME SWITCHCONTROL SWITCHPUSH BUTTON
	SERVICE CABLE TERMINATION FUSE FUSED DISCONNECT SWITCH SWITCH SURGE SUPPRESSOR CURRENT TRANSFORMER POTENTIAL TRANSFORMER POTENTIAL TRANSFORMER GROUNDING ELECTRODE POWER METER MOTOR GENERATOR SHUNT TRIP GROUND FAULT INTERRUPT TRANSFER SWITCH CONTACT (NORMALLY OPEN) CONTACT (NORMALLY OPEN) CONTACT (NORMALLY CLOSED) TIME SWITCH CONTROL SWITCH PUSH BUTTON WIRING LEGEND
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	SERVICE CABLE TERMINATION FUSE FUSED DISCONNECT SWITCH SWITCH SWITCH SURGE SUPPRESSOR CURRENT TRANSFORMER POTENTIAL TRANSFORMER POTENTIAL TRANSFORMER GROUNDING ELECTRODE POWER METER MOTOR GENERATOR GENERATOR SHUNT TRIP GROUND FAULT INTERRUPT TRANSFER SWITCH CONTACT (NORMALLY OPEN) CONTACT (NORMALLY OPEN) CONTACT (NORMALLY CLOSED) TIME SWITCH CONTROL SWITCH PUSH BUTTON WIRING LEGEND RACEWAY TURNED UP RACEWAY TURNED UP

SIGNAL



SHEET

E001

## PART I - GENERAL

### A. CONDITIONS

- 1. Furnish and install a completely wired and operational electrical system as shown on the drawings and specified herein, including but not limited to, these major items.
- 1.1. Lighting fixtures as indicated and specified on the plans.
- 1.2. Electrical panels, service, conduit, wiring, etc., for all outlets and equipment
- 1.3. Telephone outlets and conduit as indicated.

#### **B. RELATED WORKS**

- 1. The Electrical Contractor shall provide conduit, trench, and backfill for electrical service entrance from the main service to utility point of electrical service. Electrical Contractor shall coordinate the installation of the electrical service entrance with serving utility company.
- 2. The Electrical Contractor shall provide conduit, trench, and backfill for primary phone and CATV service from the telephone terminal board or cabinet to the phone company and CATV company point of service.

### C. CODES, REGULATIONS, AND STANDARDS

- The installation shall comply with applicable local and state codes and ordinances, with the regulations of the currently accepted edition of the National Electric Code and with the requirements of the power, telephone, and CATV companies furnishing services to this installation.
- 2. The following industry standards, specifications, and codes are minimum requirements:
- The National Electrical Code (NEC), including local amendments. 2.1.
- 2.2. Underwriter Laboratories (UL) incorporated standards. 2.3. American National Standards Institute (ANSI).

#### D. INSPECTION OF SITE

- 1. Prior to submitting a bid for electrical work, the contractor shall visit the site of the proposed construction and shall thoroughly acquaint himself with existing utilities, and working conditions to be encountered, etc. Allowance will not be made for noncompliance with this condition after bidding.
- Electrical installation shall meet the existing conditions.
- E. STORAGE AND HANDLING OF MATERIALS
- 1. Deliver materials and equipment to the project in the manufacturer's original unopened, labeled containers. Protect against moisture, tampering, or damage from improper handling or storage. Contractor shall protect and be responsible for any damage to work or materials until final acceptance by the owner, and shall make good without cost to the owner, any damage or loss that may occur during this period.
- 2. Arrange for timely delivery of materials and equipment to the job site in order to minimize the length of time between delivery and installation.
- 3. Cover and protect any material which may be affected by the weather while in transit or stored at the project site. Any material found defective or not installed in accordance with the contract documents may be rejected by the engineer.

#### F. CLEANUP

1. Keep the premises free from accumulation of waste materials, or rubbish caused by employees or work under this division of the specifications. At the completion of the work remove all surplus materials, tools, etc., and leave the premises broom-clean.

#### G. EXCAVATION

1. Perform all excavation and back filling required for work performed under this division of the specifications. Use excavated materials for backfill unless off site materials are deemed necessary.

#### H. DRAWINGS

1. The drawings indicate the general arrangement and locations of the electrical work data presented on these drawings are as accurate as planning can determine, but field verification of all dimensions, locations levels, etc., to suit field conditions is required. Review all architectural, structural, and mechanical drawings and adjust all work to meet the requirements of conditions shown. The architectural drawings shall take precedence over all other drawings. Discrepancies between different plans, or between drawings and specifications, or regulations and codes governing the installation shall be brought to the attention of the engineer in writing before the date of bid opening. If discrepancies are not reported, the Contractor shall bid the greater quantity or better quality, and appropriate adjustments will be made after contract award. Contractor shall be responsible to field measure and confirm mounting heights and location of electrical equipment with respect to counters, radiation, etc. Do not scale distances off the electrical drawings, use actual building dimensions.

#### I. EXCAVATION, CUTTING, AND FITTING

- 1. Perform the excavation, cutting, fitting, repairing, and finishing of the work necessary for the installation of the equipment of this section. However, no cutting of the work of other trades or of any structural members shall be done without the consent of the architect.
- J. COOPERATION WITH OTHER CONTRACTORS
- 1. Cooperate with the other trades so that the installation of the electrical outlets and equipment will be properly coordinated. Conduit, lighting fixtures, and other equipment locations shall be checked with other trades to avoid conflict with the piping, ductwork, steel, beams, or other obstructions. Carefully check the locations of the outlet boxes and determine that they have not been disturbed during the installation of materials of other trades
- 2. Coordinate the location of the trenches and conduits for electrical and telephone utility services with the general contractor.
- 3. Coordinate HVAC equipment connection requirements with HVAC contractor.

### **PART II - PRODUCTS AND EXECUTION**

#### A. MATERIALS

1. All materials shall be new and of quality as specified on the plans or specifications and must carry the Underwriter's Laboratories approval covering the purpose for which they are used, in addition to meeting all requirements of the current applicable codes and regulations.

### B. CONDUIT

- 1. All wiring shall be installed in listed metallic conduit except as permitted below. RGS, with a 20 mil PVC coating will be used when in contact with earth. IMC may be used in indoor locations not in contact with the earth. EMT may be used in indoor locations not in contact with earth, not in concrete slabs or walls and not subject to damage. PVC may be used in or below concrete and direct buried in earth. Flexible steel conduit shall be used for indoor final connections to equipment in lengths not to exceed 72". Liquid-tight flexible steel conduit shall be for outdoor final connections to equipment not to exceed 36".
- 2. Cover metallic conduit in contact with earth with polyethylene taped spiral wrapped, 1/2 lapped to provide 20 mil. thickness. Tape shall be Scotch no. 50 tape. Conduit and ducts not under buildings and feeder ducts shall be installed per N.E.C. 300-5. make joints with compound to be watertight.
- 3. Fittings and conduit bodies shall be steel. No diecast fittings.
- 4. Conduit sizes shall be as required by code and as indicated or specified.
- 5. All empty conduit systems shall have a nylon pull string to facilitate installation of future wire.
- 6. Schedule 40 PVC conduit shall be permitted underground with proper fittings, all UL Approved and cemented joints. Penetrations through floor slabs and bends greater than 22° shall be wrapped rigid galvanized steel elbows.
- Conduits and outlets shall be concealed with the building structure, except that certain motor and lighting feeder conduits may be run exposed in certain areas as indicated on the drawings. Conduit shown to be installed in cabinets, counters, and casework shall be run as directed by the architect.
- 8. All conduit systems shall have a Code sized copper ground conductor increase conduit size as required.
- 9. Conduit penetration through roof shall have roof flashing with caulk type counter flashing sleeve. Installation shall be watertight.
- 10. Conduits shall be routed surface on the structure, parallel and perpendicular to the structure.

#### C. OUTLET, PULL, AND JUNCTION BOXES

- 1. Each switch, light. receptacle or other outlet shall be provided with a Code gauge, galvanized steel outlet box. Junction and pull boxes shall be Code gauge, galvanized steel. Outlet boxes shall be of the one piece, knockout type, in general 4" square with plaster ring. Plaster rings shall be set to provide not more than 1/8" from wall surface to ring. In no case shall plaster ring project beyond surface of wall. Single gang rings similar to Steel City 52050 shall be used for 4" boxes in unfinished brick number 180 boxes may be used for unfinished masonry flush wall outlets. Center all outlet boxes in block course.
- 2. Boxes installed in poured cement floors shall be flush type cast iron or steel with watertight gasketed covers. Where boxes are installed in floors with tile or carpet floor covering, covers shall be of the recessed type to accommodate the floor covering.
- 3. Boxes installed for the alarm, computer, and security system shall be provided with appropriate cover plates.
- 4. Boxes for telephone, computer, TV, fire alarm, security, and similar systems shall be minimum 4" square and 2-1/8" deep.

#### D. SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS

- E. PANEL BOARDS
- 1. See drawings for panel board schedules and specifications.

#### F. WIRE

- 1. Conductor sizes shown on the drawings are based on copper wire. Unless otherwise specified, all wire shall be Type XHHW for feeders or branch circuits larger than 4 AWG, Type THHN/THWN insulation for feeders and branch circuits 4 AWG and smaller. All branch circuit wiring shall be copper. The wire shall be 12 AWG unless otherwise indicated. Circuit shall be labeled in each junction box.
- 2. Metal Clad Cable "Type MC" cable may only be utilized for interior branch circuitry supplying lighting fixtures, not to exceed 6-ft. in length from junction box to the fixture served. "Daisy Chaining" of light fixtures is not allowed.
- 3. When use is permitted in the Allowed Specification Deviations, Metal Clad "Type MC" cable may be installed per NEC Article 330. Where multiple cables are routed adjacent to each other (bundled), a minimum separation of one (1) cable diameter (largest) shall be required.
- 4. The wires shall be marked with color to simplify circuit identification. Unless otherwise required by local ordinances:

208/	120 Volts	
Phase A	= Black	
Phase B	= Red	
Phase C	= Blue	
Neutral	= White	
Ground	= Green	
480/2	277 Volts	
Phase A	= Brown	
Phase B	= Orange	
Phase C	= Yellow	

1. See Single Line Diagram General Notes on drawings for more information.

#### Neutral = Gray Ground = Green

- 5. No wire shall be installed in the conduit system until the conduit system is complete. Use Mineralac No. 100 or equivalent as a lubricant to facilitate the installation of the conductors in the conduit system.
- 6. Splices in exterior pull boxes and manholes shall be weatherproof using "Scotchcast" splice kit or approved equal. Seal ends of conduits and ducts with "Ductseal" or approved equal.
- 7. Provide solid conductor for 12 AWG and smaller.
- 8. Provide 10 AWG conductors for 20 ampere, 120V branch circuits longer than 75-feet and 8 AWG conductors for 20 ampere. 120V branch circuits longer than 120-feet. Provide 10 AWG conductors for 20 ampere, 277V branch circuits longer than 200-feet.

G. WIRING DEVICES

- 1. Wall switches shall be Specification Grade AC silent type switches, 20A, 120/277 volt.
- 2. Receptacles shall be Specification Grade, duplex type, NEMA 5-20R, 20 ampere, 120 volt grounded type. Special application receptacles shall be indicated on plans. Mount with the ground down.
- 3. Device plates shall be equal to sierra smooth-line plastic wall plates. Color shall be white, unless otherwise noted.
- 4. All receptacles identified as weatherproof on the drawings shall be weather-resistant, tamper-resistant, GFCI type and equipped with enclosure that is weatherproof (WP) whether or not the attachment plug cap is inserted (while "IN-USE"). An outlet box hood shall be listed and shall be identified as "Extra Duty".
- 5. Except as otherwise noted, all wiring device plates on the project shall be labeled with panel and circuit number(s) utilizing a Brother P-touch labeling system with 1/2" tape (yellow on black) or equal HellermannTyton or Panduit. Locate label on the concealed side of the wiring device plate. Handwritten labels are unacceptable.

H. LIGHTING FIXTURES

1. Provide all lighting fixtures, wired and connected. the drawings indicate the fixtures for each location. Provide lamps for all fixtures. The lamps shall be by the same manufacturer. Verify ceiling construction before ordering recessed units. Provide plaster frames and hangers as required. Ceiling construction, architectural accessories, voltage, and ballasts to meet the existing condition.

I. SERVICE ENTRANCE SECTION

- 1. The service entrance equipment shall be as indicated on the drawings. Equipment shall carry the UL label and shall conform to the power company regulations.
- 2. Service entrance equipment shall be provided with a fully rated copper or aluminum bus. Horizontally tapered bussing shall not be allowed.

J. SYSTEM GROUNDING

- 1. Grounding shall comply with requirements of Article 250. All exposed non-current carrying metallic parts of electrical equipment, metallic raceway systems, metallic cable armor, grounding conductor of nonmetallic sheathed cables, grounding conductor in nonmetallic raceways, and grounded conductors of the wiring system shall be grounded.
- 2. Grounding conductor (neutral) of the wiring system shall be connected to the system grounding conductor at a single place in each system by removable bonding jumpers, sized according to the applicable provisions of the National Electrical Code. The grounded conductor (neutral) to the grounding conductor connection shall be located in the enclosure for the system's overcurrent protection or where otherwise indicated on the plans or specifications.
- 3. A ground bus separate from the neutral bus shall be provided in all switchboards and panelboards. Ground bus shall be retorqued (checked) prior to energizing equipment per manufacturer's recommendations.
- 4. Ground buses and neutral buses in all distribution panels, switchboards, panelboards, and those provided in any equipment shall be isolated except where required to be connected as specified above for the service entrance and in transformer terminal compartments.
- 5. When indicated on the drawings, equipment grounding conductors shall be extended from the ground bus in the distribution equipment to the receptacle, fixture or device lugs where they are provided. Where lugs are not provided, equipment grounding conductors shall be connected to equipment enclosures. The connections shall be arranged such that removal of the receptacle, equipment ground conductors, or ground jumpers from ground busing shall not affect the ground system.
- 6. Raceways may not be used as a grounding conductor for power and lighting circuits. All conduit shall have separate Code sized green ground wire installed in the conduit to insure a continuos grounding path.
- 7. In inaccessible locations, make connections by exothermic weld process.
- 8. In accessible locations, connections shall be made with bolted through, approved solderless bronze grounding devices.
- 9. Bond together metal siding not attached to grounded structure bond to ground.

K. TELEPHONE SYSTEM

- 1. Telephone wall outlets shall consist of standard boxes mounted 18" above the floor unless otherwise indicated. Connect outlets to telephone terminal with separate 3/4" conduit unless otherwise shown on drawings. Provide a terminal mounting board for the incoming service cable.
- L. LIGHTING CONTROL
- 1. Furnish and install time switches, photocells, contactors and full lighting control systems as required for lighting controls indicated on the drawings.

- 2. Time switches shall be equal to Paragon, General Electric, Tork, or Intermatic and shall have size and number of poles as required.
- 3. Photocells shall be equal to Tork or Intermatic with voltage as indicated.
- M. DRY TYPE TRANSFORMERS
- 1. Manufacturers: subject to compliance with requirements, provide products by one of the following
- Acme Electric Corporation; Power Distribution Products Division. 11 GE Electrical Distribution & Control. 1.2. 1.3. Eaton.
- 1.4. Square D/Groupe Schneider NA.
- 2. Coils: Continuous windings without splices, except for taps.
- Internal coil connections brazed or pressure type.
- 4. Coil material copper
- 5. Enclosure ventilated, NEMA 250, Type 2 (NEMA 3R for outdoor installations).
- 6. Insulation class 220°C, UL-component-recognized insulation system with a maximum of 150C° rise above 40°C ambient temperature.
- 7. Taps for transformers 25 kVA and larger two 2.5 percent taps above and four 2.5 percent taps below normal full capacity.
- 8. Wall brackets manufacturer's standard brackets.
- 9. Low-sound-level-requirements minimum of 3 dba less than NEMA ST-20 standard sound levels when factory tested according to IEEE C57.12.91

N. GUARANTEE

- 1. Guarantee all material furnished and all workmanship performed for a period of one year from date of final acceptance of work. Any defects developing within this period, traceable to material furnished as a part of this section or workmanship performed hereunder, shall be made good at no expense to the owner.
- O. SHOP DRAWINGS AND APPROVALS
- 2. The items specified herein and on drawings are used as a standard of guality. any materials of equal guality and aesthetic value will be given consideration as a substitute for the materials specified. No approval will be given to a specific catalog number, model, or type of equipment, prior to bidding. After bidding, the decision of the Architect and/or Engineer determining equal materials will be final.
- 3. The contractor shall submit shop drawings on the following items:
- 3.1. Lighting fixture cuts and performance data. 3.2. Outline drawings and data sheets of each panelboard and switchboard. 3.3. Outline drawings of all switchgear
- 4. Submit items at one time in a neat and orderly manner within 15 days of award of contract. Partial submittals will not be acceptable.
- P. RECORD AND AS-BUILT DRAWINGS
- 1. The Electrical Contractor shall maintain a set of drawings at the job site for the exclusive purpose of maintaining a record of all work installed and to show any deviations from the work indicated on the drawings.
- 2. At the completion of the project, one set of reproducible drawings, showing all As-Built conditions, shall be delivered to the Owner for acceptance prior to final payment.

Q. HOUSEKEEPING PADS

- 1. Provide a minimum of 3" high housekeeping pad above finished floor/ finished grade for all floor-mounted switchgear, switchboards, distribution boards, transformers, motor control centers, etc., flush with the face of the equipment. Located in mechanical central plants(s), other mechanical spaces, and located outdoors, pads shall be flush with the face of the equipment. Confirm pad dimensions with local inspector prior to forming pad to ensure any local code interpretations/conditions are met regarding housekeeping pads.
- 2. Unless otherwise noted above, provide a minimum of 1-1/2" high housekeeping pad above finished floor/finished grade for all interior floor-mounted switchgear, distribution boards, transformers, motor control centers, transfer switches, etc., flush with the face of the equipment. All housekeeping pad heights are as measured from finished floor or grade. Confirm pad dimensions with local inspector prior to forming pad to ensure local code interpretations/conditions are met regarding housekeeping pads.
- 3. Provide a 1-1/2" high housekeeping pad above finished floor/finished grade for service equipment. Prior to pad rough-in, Contractor shall verify serving utility company's maximum meter height requirements and, if necessary, adjust height of housekeeping pad to comply with those requirements. In indoor applications, the housekeeping pad shall be flush with the face of the switchgear. In outdoor applications, the housekeeping pad shall extend a minimum of 4 feet from the front of switchgear's weatherproof enclosure. Confirm pad dimensions with local inspector prior to forming pad to ensure any local code interpretations/conditions are met regarding housekeeping pads.
- 4. All housekeeping pads located in, on, or attached to a building shall be seismically braced/connected to the building structure.

R. EQUIPMENT CONNECTIONS

- 1. Provide flexible connections to all HVAC equipment, water heater, etc any equipment over 20 lb and/or mounted above finished floor.
- 2. Coordinate electrical requirements for all plumbing and mechanical equipment with final Contractor selection. The Contractor shall size disconnects based upon circuit breaker ratings and provide fusing as required per equipment manufacturer recommendations and UL Listing requirements.

S. MOTORS

3. Where motors are installed in suspended ceilings, contractor shall provide disconnect switch in suspended ceiling within reach from access point. 4. Sizing of motor-related electrical components, including feeder and/ or branch circuits (wire and conduit) and overcurrent protection (breaker and/ or fuses) is based on ratings indicated in the contract documents as well as NEC approximated loads for a given motor horsepower, voltage and phase. It is the contractor's responsibility to verify actual motor and appliance rating

and loads. Contractor to provide correctly sized motor overload electrical

components based on nameplate rating. Reflect all changes in the as-built

T. FIRE SYSTEM

drawings.

- 1. Contractor shall engage the services for a state licensed fire alarm manufacturer/installer to prepare all design drawings and calculations required for system approval by the authority having jurisdiction. Submit all plans and provide all permits required for a complete and operable approved life safety system.
- 2. Fire alarm device wiring shall be minimum #14 AWG copper or per system manufacturer requirements. Provide minimum 3/4" separate raceway system or as required for life safety system wiring configuration.
- 3. Upon completion of the installation of life safety system wiring and devices, a performance test of the entire life safety shall be performed to the satisfaction of the authority having jurisdiction.
- U. LOW VOLTAGE SYSTEMS
- 1. Music, television, video mounting systems are not shown on these drawings and are provided by Contractor through architects schedules/details. Contractor to coordinate all routing and final connections as approved by Starbucks Manager as applicable specifically to this store.
- V. IDENTIFICATION OR EQUIPMENT LABELING
- 1. Nameplates shall be provided for switchgear, switchboards, distribution boards, distributions panels, panel boards, motor control centers, transformers, transfer switches, contactors, starters, disconnect switches, enclosed circuit breakers/switches, Inverters, UPS's, PDU's, RDC's, SPD's, lighting control panels, dimming panels, door releasing system panels, fire alarm/central monitoring terminal cabinets/power supplies/control panels, and all low voltage system terminal and control cabinets.
- 1.1. Nameplate inscriptions shall be identical to the equipment designations indicated in plans and specifications. Nameplates shall be engraved with the device designation/identification on the top line, source identification for the device on the 2nd line per NEC, or CEC where adopted, Art 408.4 and load designation for the device on the bottom line. Where load designation consists of a branch circuit, omit bottom line. Where device designation is not intended on plan/specfications. Contractor shall submit a written clarification request to the Engineer.
- 1.2. All circuit breakers/fuses in switchgear, switchboards, distribution boards, distribution panels, UPS output circuit breakers, PDU sub-feed circuit breakers and motor control centers shall have individual nameplates located immediately adjacent to the respective device. Nameplate inscription shall identify the downstream equipment or device served by the circuit breaker or fuse.
- 2. Identification nameplates, unless otherwise noted (UON), shall be laminated/extruded modified acrylic or melamine plastic labels that is 3/32" thick, UV-stabilized, matte finish, suitable for use in 180°F ambient, with beveled edges and engraved white letters 3/8" high, minimum, on 1-1/2" high black background for single line of text. Where two lines of text are required, provide minimum 2" high nameplate. Where three lines of text are required, provide 2.5" high nameplate. Provide white letters on red background for all NEC, or CEC where adopted, Article 517 essential power systems, Article 700 Emergency Systems, Article 701 Legally Required Standby Systems and Article 708 COPS.
- Identification nameplates for new switchgear, switchboards, distribution boards, distribution panels, panel boards and motor control centers shall be attached with switchgear manufacturer-provided screws via switchgear manufacturer factory pre-drilled holes. A factory option to rivet identification nameplates to the equipment is only acceptable if screw-fastened nameplates are not an available option from the switchgear manufacturer. Field drilling or other mechanical attachment methods that change/void the NEMA or NTRL rating of the enclosure are strictly forbidden.
- 4. Identification nameplates for transformers, transfer switches, disconnect switches, enclosed circuit breakers/switches, inverters, UPSs, PDUs, RDCs, SPDs, lighting control panels, dimming panels, door-releasing system panels, terminal cabinets and all circuit breakers/fuses in switchgear, switchboards, distribution boards, distribution panels, UPS output circuit breakers, PDUs, PDU sub-feed circuit breakers, and motor control centers shall be attached to the equipment by self-adhesive backing integral to the nameplates. When equipment is located outdoors, provide nameplates without self-adhesive backing and attach to equipment using weather-rated, UV-resistant epoxy. In all cases, clean surfaces before applying identification nameplates parallel to equipment lines.
- 5. Warning Placards, as required by General Single Line Diagram Notes for multiple power sources, or instruction placards, as required for all kirk-key interlock schemes, all UPS bypass procedures or as required elsewhere in the plans/specifications shall be engraved 1/2" high with white lettering on red background using the same material specified for identification nameplates with a self-adhesive backing. Warning/instruction placards shall be attached to the face of the equipment directly related to the placards.
- **Kinetic Design** 20381 Lake Forest Dr. Suite B16 Lake Forest, CA. 92630 Main. 951.710.6334 Web. kineticdesign.build Email. info@kineticdesign.build **STEPHEN** Γ HEATH NUMBER PE\_2770 NOT FOR CONSTRUCTION THIS DRAWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. APPROVAL FROM THE ARCHITECT AND GOVERNING JURISDICTIONS MUST BE ATTAINED PRIOR TO THE ISSUANCE OF CONSTRUCTION DOCUMENTS. THE ARCHITECT AND HIS CONSULTANTS ASSUME NO RESPONSIBILITY FOR CONSTRUCTION BIDS OR CONSTRUCTION PERFORMED FROM THESE DRAWINGS. REVISIONS DATE DESCRIPTION No. CLIENT INFORMATION náltar Ś S Ш **IFICATION** SUMMIT  $\checkmark$ 80  $\overline{O}$  $\mathcal{S}$ ш ш Δ S ш U)  $\sim$ ш SU БS ÈШ Ш Ζ ш 6 \_ CHECKED DRAWN WR JB DATE 07/30/21 労 SCALE AS NOTED PROJECT NUMBER SHEET

N     Q1.     DESCRIPTION     EQUIPMENT SIZE       1     CHEMICAL DISPENSER       A     1     EPOXY COATED WIRE RACK     18"x30""x86"       A     1     EPOXY COATED WIRE RACK     24"x 30" x 86"       1     EPOXY COATED WIRE RACK     24" x 36" x 74"       0     1     EPOXY COATED WIRE RACK     24" x 48" x 86"       1     3     EPOXY COATED WIRE RACK     24" x 60" x 86"       1     3     EPOXY COATED WIRE RACK     24" x 60" x 86"       1     CHROME WIRE RACK     24" x 36" x 86"
T.DESCRIPTIONEQUIPMENT SIZE1CHEMICAL DISPENSER1EPOXY COATED WIRE RACK1EPOXY COATED WIRE RACK1EPOXY COATED WIRE RACK24" x 36" x 74"1EPOXY COATED WIRE RACK24" x 48" x 86"3EPOXY COATED WIRE RACK4CHROME WIRE RACK5EPOXY COATED WIRE RACK6STAINLESS STEEL WALL MOUNT SHELF1CHROME WIRE RACK2STAINLESS STEEL WALL MOUNT SHELF1SAFE2PAPER TOWEL DISPENSER OR EQUAL2PAPER TOWEL DISPENSER OR EQUAL1MOP RACK1MOP RACK
EPOXY COATED WIRE RACK24" x 36" x 74"EPOXY COATED WIRE RACK24" x 48" x 86"EPOXY COATED WIRE RACK24" x 60" x86"CHROME WIRE RACK24" x 36" x 86"STAINLESS STEEL WALL MOUNT SHELF14" W x 48" LSTAINLESS STEEL WALL MOUNT SHELF14" x 60"SAFE20x18x26PAPER TOWEL DISPENSER OR EQUAL12 3/4 x 12 1/2 x 8 1/2WALL MOUNTED SOAP DISPENSER6 1/8 x4 1/8 x 4 1/4"MOP RACK17 11/16" X 2 5/8"EMPLOYEE LOCKERS12W" x 12D" x 78H"POS - REGISTER WITH COMPACT CASH DRAWERTICKET DDINTED
SAFE20x18x26APER TOWEL DISPENSER OR EQUAL12 3/4 x 12 1/2 x 8 1/2WALL MOUNTED SOAP DISPENSER6 1/8 x4 1/8 x 4 1/4"MOP RACK17 11/16" X 2 5/8"EMPLOYEE LOCKERS12W" x 12D" x 78H"OS - REGISTER WITH COMPACT CASH DRAWERDRAWERTICKET PRINTER12K" x 16 1/2" W x 16 1/2" EPOXY-COATED WALL MOUNTED WIRE SHELF14"x30"
PRINTER       DRAWER     4 3/4" H x 16 1/2" W x 16 1/2" E       'ALL MOUNTED WIRE     14"x30"       IELF     14"       O WALL BRACKET     14"       'ALL-MOUNTED WIRE     14"x60"       IELF     14"x60"       'ELF     14"x60"
I         REFER TO PLANS           ION         34 1/4" L x 18" H x 4" D           IV         34 1/4" L x 18" H x 4" D           4" REAR         2' L x 2' D x 2'11"H, 4"           BACKSPLASH         30"W x 48"L, 4" BACKSPLASH           3LE         30"W x 48"L, 4" BACKSPLASH           A         -           AMERA         -
- - 1/8" W x 29 1/2" D x 78 3/8"   28"L x 30"D x 37"H 28"L x 30"D x 33.5"H 49"L x 30"D x 33.5"H 39" L x 28"D 78 1/2" H
28"D 78 1/2" H 10 5/8" D x 5 1/4" H (9"Dx20.3"H (19.7" x 11.4" 24" x 24.58" 7/8" D x 78 3/8" H
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-1
JFA( ZUF ROV STEE GS <sup>1</sup>



	LUMINAIRE SCHEDULE											
TAG	MANUFACTURER & MODEL NO.	LAMP	ССТ	VA   SYSTEMS WATTS	GENERAL DESCRIPTION	NOTES						
LTF-1	LITHONIA LIGHTING EPANEL-24-40L-35K OR APPROVED EQUAL	LED	3500	39	2'X4' LAY-IN TROFFER (WHITE COLOR TRIM) W/ INTEGRAL 90-MIN EMERGENCY BATTERY BACK-UP	INTERIOR						
LRC-1	AMERLUX HOUSING: CLX-R6-NC-A17-25-120-D10V TRIM: CLX-RD6-A17-SDW-FL-3500K-83 OR APPROVED EQUAL	LED	3500	25	6" RECESSED LENSED LED DOWNLIGHT (MATTE WHITE TRIM)	INTERIOR						
LEB-1	JUNO HOUSING: IC22 SERIES TRIM: 28W-WH EYEBALL OR APPROVED EQUAL	LED	3500	14	ze	INTERIOR						
DLB-1	KUZCO LIGHTING PD1712-BK OR APPROVED EQUAL	LED	2700	12	11-3/4" DIA CHROMA PENDANT	INTERIOR						
LTB-6	WAC LIGHTING MO-2020-935-BK OR APPROVED EQUAL	LED	3500	20	SILO X20 MOMOPOINT	INTERIOR						
LE-2	LITHONIA LIGHTING LX-W-G	LED		2.5	EXIT LIGHT, GREEN LETTERS AC ONLY	INTERIOR						





		LIGHTING PLAN GENERAL NOTES	HEREI			
	1.	REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION & ELVATION OF ALL LIGHTING FIXTURES AND ALL DEVICES. ALL WALL-MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH THE ARCHITECT PRIOR TO ROUGH-IN.	I CONTAINED			
	2.	VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WILL ALL NECESSARY MOUNTING HARDWARE.	RMATION			
	3.	ALL RECESSED FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED ISSUE OF THE IBC, OR	OR INFO			esign
	4.	ALL DIMMING BRANCH CIRCUITS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL	AWINGS	La La Main. 951.71 Email	ke Forest, CA. 9 10.6334 Web. kir . info@kineticde	eticdesign.build sign.build
	5.	ALL EMERGENCY BATTERY PACK FIXTURES SHALL BE PROVIDED WITH A CONSTANT HOT CONNECTION TO THE CHARGING LEAD.	HESE DR	Lindi		.9
	6.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXIT SIGN CHEVRONS AND NUMBER OF FACES PER EXIT SIGN. ANY DISCREPANCIES BETWEEN EXIT SIGNS SHOWN ON THE ELECTRICAL AND ARCHITECTURAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING	BILITY FOR TH		TE OF MISS	A A A A A A A A A A A A A A A A A A A
	7.	PROVIDE ADDITIONAL J-BOX NEAR PANEL FOR MULTIPLE HOMERUN CIRCUITRY.	ES NO LIA	*	NUMBER	
			ASSUME	A STAN	PE-27797	
				2	- A	
			KINETIC	NOT FO	OR CONST	
			DESIGN.	INFORM APPROVA GOVERNI ATTAINE	ATIONAL PURPO L FROM THE ARC NG JURISDICTIO D PRIOR TO THE	SES ONLY. CHITECT AND NS MUST BE CISSUANCE
				OF CONST ARCHITE ASSUM	FRUCTION DOCU	MENTS. THE ISULTANTS BILITY FOR
	2	RUN LIGHTING CIRCUIT VIA SWITCH, PROVIDE ADDITIONAL HOT WIRE FOR EXIT SIGN	FROM K	CO CONSTR	NSTRUCTION BII UCTION PERFOR THESE DRAWING	DS OR MED FROM GS.
	3	AND EMERGENCY LIGHTS. PROVIDE OCCUPANCY SENSOR FOR FULLY SHUT OFF, PROVIDE ADEQUATE SENSOR DEVICES SENSING ENTIRE ENCLOSED SPACE WHERE THE SYMBOL			REVISION	3
	4	LOCATED. LIGHTING INSIDE THE COOLER/FREEZER SHALL BE PROVIDED BY THE COOLER/FREEZER MANUFACTURER. FINAL CONNECTION BY E.C. SEE POWER PLAN FOR BRANCH CIRCUIT	ITTEN PERI 	D. DATE	E DESC	CRIPTION
	5	PROVIDE AN EYS FITTING FOR CONDUITS THAT ENTER AND EXIT FREEZERS AND COOLER. OBTAIN APPROVAL FROM INSPECTOR PRIOR TO INSTALLING SEALANT.	WITH WR 			
			N ONLY B			
			REIN, CAN	LIENT INFO	RMATION	
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			CONTAI	ne	èkt	ər
			RMATION		JUIC	EBAR.
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			EM ARE		or r T, MI	PLA
				ц Ц	/ PRY JMMI	D N
			UTAINEC IECT NAM		40 NV E'S SL	GHT
			ATION CC 됩 BDO		6 Снес	KED
				ATE	JB	WR07/30/21
			AND THE	CALE ROJECT NUM	/BER	AS NOTED
			DRAWINGS	HEET		<b>7</b>
$\overline{}$			ESE D		-2	



13 A-20 -15 A-18 -13 A-12 -JUICING 45 A-10 -BLENDIN 15 A-14 -102 174 SF

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1 13 A-26 – STORE 101 211 SF



	POWER PLAN GENERAL NOTES	D HEREIN.			
1.	ALL RECEPTACLES ON COMMON WALLS SHALL BE SEPARATE BOXES AND OFFSET 24" MINIMUM.	ONTAINEI		KΓ	
2.	MULTI-WIRED (SHARED NEUTRAL) BRANCH CIRCUITS SHALL NOT BE INSTALLED. ALL 120 & 277 VOLT BRANCH CIRCUITS SHALL HAVE A DEDICATED INDIVIDUAL NEUTRAL CONDUCTOR.	MATION CC			
3.	PROVIDE G.F.C.I. TYPE RECEPTACLE(S) OR RECEPTACLE(S) PROTECTED BY GFCI CIRCUIT BREAKER(S) WHEN LOCATED WITHIN 6 FEET OF ANY SINK OR THERAPEUTIC TUB, SERVIING ANY DRINKING FOUNTAIN OR VENDING MACHINE, WITHIN ANY KITCHEN SPACE AND/OR LOCATED OUTDOORS. WHERE RECEPTACLES ARE NOT READILY ACCESSIBLE, PROVIDE GFCI CIRCUIT BREAKER(S) TO PROTECT THE RESPECTIVE BRANCH CIRCUIT AND PROVIDE ADDITIONAL NEUTRAL CONDUCTORS IN THE BRANCH CIRCUITING AS REQUIRED TO ENSURE PROPER GFCI FUNCTION.	DRAWINGS OR INFORI	Kin 2038 L Main. 951.7 Ema	Lake Forest Dr. S ake Forest, CA. 9 710.6334 Web. kin ail. info@kineticdes	Suite B16 2630 eticdesign.build sign.build
4.	ALL 15- AND 20- AMPERE, 125- AND 250-VOLT NONLOCKING TYPE RECEPTACLES THROUGHOUT BUILDING SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES, NO EXCEPTIONS.	<b>JR THESE</b>			
5.	ALL RECEPTACLES IDENTIFIED AS WEATHERPROOF ON THE DRAWINGS SHALL BE WEATHER-RESISTANT, TAMPER-RESISTANT, GFCI TYPE AND EQUIPPED WITH ENCLOSURE THAT IS WEATHERPROOF (WP) WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED (WHILE "IN-USE"). AN OUTLET BOX HOOD SHALL BE LISTED AND SHALL BE IDENTIFIED AS "EXTRA DUTY".	SUMES NO LIABILITY FO	* PROL	NUMBER PE-27797	
	POWER PLAN KEYNOTES	DESIGN AS			
1	PROVIDE RECEPTACLES MOUNTED WITHIN MILLWORK FOR EQUIPMENT. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH GC PRIOR TO BID AND ROUGH-IN.	N. KINETIC I	NOT F This I INFORI	OR CONST	RUCTION IDED FOR SES ONLY.
2	RECEPTACLE FOR SHOW WINDOW AS REQUIRED BY CODE. VERIFY WITH LOCAL AGENCY. CONNECT TO CIRCUIT NOTED.	DESIG	APPROV GOVERN ATTAIN	AL FROM THE ARC IING JURISDICTIO IED PRIOR TO THE	CHITECT AND NS MUST BE
3	PROVIDE 120V POWER FOR WALK-IN COOLER LIGHTS AND DOOR HEATER. CONTRACTOR SHALL INSTALL, WIRE AND PROVIDE LAMPS FOR WALK-IN COOLER LIGHTS.	M KINETIC	OF CONS ARCHIT ASSUM CONST	STRUCTION DOCU ECT AND HIS COM ME NO RESPONSIE ONSTRUCTION BIE RUCTION PERFOR	MENTS. THE ISULTANTS BILITY FOR DS OR MED FROM
4	MAKE PENETRATIONS IN WALK-IN COOLER W/ CONDUIT SEALING FITTINGS & NIPPLE TO CAST FIXTURE J-BOX. CIRCULATION OF AIR FROM WARMER TO COLDER SECTIONS OF INTERIOR RACEWAY SYSTEM EXPOSED TO WIDELY DIFFERENT TEMPERATURES SHALL HAVE JOINTS FOR CONDUIT AS REQUIRED TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION. PROVIDE SEALING COMPOUND AFTER WIRING IS FINISHED.	PERMISSION FROM	No. DAT		SS.
5	REQUIREMENTS FOR WALK-IN COOLER:	RITTEN			
<u> </u>	PROVIDE WIRING TO EVAPORATOR	ITH WI			
В.	PROVIDE CONTROL WIRING BETWEEN CONDENSER & EVAPORATOR IF REQUIRED	SED W			
C.	INSTALL FREEZER & COOLER LIGHT FIXTURES THAT ARE SHIPPED LOOSE.	, BE U			
D.	D. PROVIDE POWER AND CONTROL WIRING FOR FREEZER CONDENSER AND HEAT				
E.	VAPOR SEAL ALL CONDUIT PENETRATIONS. PENETRATIONS MUST BE PROPERLY SEALED AGAINST COLD LOST AND INFILTRATION TO PREVENT CONDENSATION AND ICE FORMATION. SILICONE CAULKING IS THE RECOMMENDED SEALANT AROUND PENETRATED ITEMS.	<b>NED HEREIN, C</b>	CLIENT INFO	DRMATION	
6	PROVIDE ASTRONOMICAL TIMECLOCKS, MOUNTED AT 44" AFF, COORDINATE LOCATION WITH LANDLORD.	N CONTAI	ne	ekt	ər
7	PROVIDE 24"X24"X3/4" FIRE RATED PLYWOOD BACKBOARD WITH QUAD RECEPTACLE ELECTRICAL CONTRACTOR TO PROVIDE TELEPHONE CONDUIT FROM LANDLORD'S DEMARK, CONTRACTOR TO VERIFY DEMARK LOCATION PRIOR TO BID. PROVIDE FIRE RATED LABEL AND DO NOT PAINT BACKBOARD.	<b>E INFORMATIOI</b>		JUIC	EBAR.
8	PROVIDE WEATHERPROOF J-BOX AND MANUAL DISCONNECT SWITCH FOR CONNECTION TO BUILDING EXTERIOR SIGN(S), SIGN CONTROLLED BY ASTRONOMICAL PROGRAMMABLE TIME CLOCK. COORDINATE WITH LANDLORD REQUIREMENTS AND SIGNAGE VENDOR.	<b>MENTS OR THI</b>			
9	PROVIDE A 60AS/50AF/3P DISCONNECT SWITCH ON WALL FOR WALK-IN COOLER CONDENSING UNIT.	E DOCUN			
10	PROVIDE DUPLEX/USB OUTLETS IN MILLWORK 22" AFF AS SHOWN. COORDINATE INSTALLATION WITH MILLWORK DRAWINGS.	F THESE			
11	PROVIDE DUPLEX/USB OUTLETS IN MILLWORK 44" AFF AS SHOWN. COORDINATE INSTALLATION WITH MILLWORK DRAWINGS.	, USE O			
12	SNUG UNDER COUNTERTOP SEE MILLWORK ELEVATIONS	ι. ANY	$\cap$		
13	POWER @+18" AFF	DESIGN	Š	2	
14	POWER @+30" AFF	ETIC D	, L	СÜ	
15	POWER @+42" AFF	DF KIN	5	SPA	
16	DATA/POWER @+65" AFF	ERTY (	Ž	AIL : 081	
		PROP	SU	RET RI 64	
		E SOLE	Š	OUF OUF	
		RE TH	Ш	r RC AISS	z
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		IT NO	щ Ш	IMV	
		-AINEC		NN S SL	NAME VE
		N CONT		940 LEE'	PO PO
		RMATION	DRAWN	JB CHEC	KED WR
		-			



CLIENT INFC	PRMATION	BAR.
PROJECT NAME NEKTER - LEE'S SUMMIT, MO	940 nw pryor road, retail space 5, Lee's summit, missouri 64081	SHEET NAME POWER PLAN
DRAWN	JB CHEC	KED WR
DATE SCALF		07/30/21
PROJECT NU	MBER	AS NOTED
SHEET		
		$\cap 1$



# PARTIAL SINGLE LINE DIAGRAM 1

Multipues         Double Luce No. Preson         Double Luce No. 2005 NO.         Physics 2004 120 NO.         Physics 2004 120 NO.         Multe 14.0 Bisagoregano No.	MFR:			Р	ANEL:	"A"						*PANEL IS	EXISTIN	G	
N L 0         O         DESCRIPTION         ANPS         POLES         A         B         C         A         B         C         TRIP         POLES         ANPS         DESCRIPTION         C <td>MOUNTING: <u>RECESSED</u> NEMA 3R: <u>NO</u> FEED THRU: <u>NO</u></td> <td>D</td> <td>OUBLE LUG: 200%: I/G BUS:</td> <td>NO NO NO</td> <td>Volts: Phases: Wire:</td> <td>208Y/120\ <u>3</u> 4</td> <td><u>/</u></td> <td>PROVISI DI</td> <td>ONS FOR S SAGGREGA</td> <td colspan="3">JB-METER:         YES         MAIN:         MLO           ION TYPE:         NO         BUS:         225A           A.I.C.:         18,000</td> <td></td> <td></td> <td></td>	MOUNTING: <u>RECESSED</u> NEMA 3R: <u>NO</u> FEED THRU: <u>NO</u>	D	OUBLE LUG: 200%: I/G BUS:	NO NO NO	Volts: Phases: Wire:	208Y/120\ <u>3</u> 4	<u>/</u>	PROVISI DI	ONS FOR S SAGGREGA	JB-METER:         YES         MAIN:         MLO           ION TYPE:         NO         BUS:         225A           A.I.C.:         18,000					
L         I         Borkstone Lrg         20A         1         495         1300         1         20A         128         20A         1300         1300         130A         128         ALL         128         ALL         120A         128         120A	N         L         C           O         O         I           T         A         R           E         D         C           S         S         DESCRIPTION	TRIP AMPS	POLES	A	В	с	A	в	с	POLES	TRIP AMPS	DESCRIPTION	C I R C		- N O O A T D E S S
L         L         J         Control         1         20A         CEMULTURYIR         20A         C	L 1 BOH/STORE LTG	20A	1	485			1300			1	20A	E58 M	JLTI JUICER 2	2 1	ĸО
R         8         1         200         139         1         20A         EBS CEMARG         6         K           R         2         COMPARZENCE         20A         1         500         564         1         20A         EST COMPRISENT PLOY         EST COMPRISENT PLOY         EST COMPARISENT	L 3 FOH/HALLWAY/RR	20A	1		507			1300		1	20A	E58 M	JLTI JUICER 4	1 1	ĸО
R         7         COMMENSATE RSC.         20A         1         500         554         1         20A         E22 FOO PREVIDENTED PREPTICELE         1         20A         E22 FOO PREVENTED PREPTICELE         1         20A         E22 FOO PREVIDENTED PREPTICELE         1         20A         E22 FOO PREVENTED PREPTICELE         1         20A         E22 FOO PREVENTED PREPTICE         20A         E22 FOO PREPTICE         20A         E22 FOO PREPTICE         20A         E22 FOO PREVENTED P	R 5 LOW VOLTAGE EQUIPMENT	20A	1			500			1309	1	20A	E63	ICE MAKER 6	5 F	кŌ
Image: Second	R 7 CONVIENENCE REC.	20A	1	500			564			1	20A	E22 FOOD REFRIGERATED F	REP TABLE 8	3 1	K (3)
Image: Second	M 9 E136 AIR CURTAIN	20A	1		276			1560		1	20A	E51 E	LENDER #1 1	0 1	кŌ
K         IS         IS </td <td>R 11 POS1/POS2/POS/3</td> <td>20A</td> <td>1</td> <td></td> <td></td> <td>600</td> <td></td> <td></td> <td>368</td> <td>1</td> <td>20A</td> <td>E30 WORKTO</td> <td>PFREEZER 1;</td> <td>2 1</td> <td>K (3)</td>	R 11 POS1/POS2/POS/3	20A	1			600			368	1	20A	E30 WORKTO	PFREEZER 1;	2 1	K (3)
K         15	K 13 E79 WALK-IN COOLER	20A	2	345			1560			1	20A	E51 E	3LENDER #2 1/	4	ĸŎ
Int         Start         Int         Int </td <td><u>к 15</u></td> <td></td> <td>-</td> <td></td> <td>345</td> <td></td> <td></td> <td>1560</td> <td></td> <td>1</td> <td>204</td> <td>E51 E</td> <td>3LENDER #3 1</td> <td>6 1</td> <td>ĸŇ</td>	<u>к 15</u>		-		345			1560		1	204	E51 E	3LENDER #3 1	6 1	ĸŇ
In         In<	17 SPARE	204	1						400	1	204	E48 DIPPER WE	LL SQUARE 1	8 1	ĸМ
IN         IN <thin< th="">         IN         IN         IN<!--</td--><td></td><td>204</td><td>1</td><td></td><td></td><td></td><td>230</td><td></td><td>400</td><td>1</td><td>204</td><td>E27 FOOD REF</td><td>RIGERATED 2</td><td></td><td></td></thin<>		204	1				230		400	1	204	E27 FOOD REF	RIGERATED 2		
Image         Image <th< td=""><td></td><td>204</td><td>2</td><td></td><td>1400</td><td></td><td>230</td><td>1200</td><td></td><td>1</td><td>204</td><td>F158 OATMEA</td><td></td><td>2 1</td><td>ř</td></th<>		204	2		1400		230	1200		1	204	F158 OATMEA		2 1	ř
Image: Non-Weight of the second sec		JUA	2		1450	1400		1300	1005	1	20A	F64 REACH-IN REF	RIGERATOR 2		
R 12         VIORING TATION (SCURTY MONTOR)         20A         1         360         1/23         1         20A         20A         1         20A         <				200		1498	4705		1205		20A	EUR REERINGE SE		4 r	
Image: Registry of the scient divides and the science of t		20A		300			1725				20A			o r	ÌX
Image: Notice of the second process of the second proces of the second proces of the second process of the se		20A	1		360			300		1	20A			8 1	<u>'</u> H
L       1       100       1       100       1       200       1       300       1       200       SPARE 32       1       200       SPARE 36       1       1 <td>R 29 WORKSTATION (POS &amp; COMPUTER)</td> <td>20A</td> <td>1</td> <td></td> <td></td> <td>600</td> <td></td> <td></td> <td>1020</td> <td>1</td> <td>20A</td> <td>HEAT TRA</td> <td>CDARE 30</td> <td>0 1</td> <td><b>*</b>×</td>	R 29 WORKSTATION (POS & COMPUTER)	20A	1			600			1020	1	20A	HEAT TRA	CDARE 30	0 1	<b>*</b> ×
R         33         WINDOW REC.         20A         1         500         1         20A         SPARE         34           L         33         WINDOW REC.         20A         1         500         1         20A         SPARE         36         I         20A         SPARE         36         I         20A         SPARE         36         I         20A         SPARE         36         I         20A         IS MINDOW REC.         SPARE         20A         1         20A         IS REACHIN SOLID SWING DOOE FREEZER         38         K           I         41         SPACE         I         I         20A         IS MINDOW REC.         SPACE         SPACE         IS MINDOW REC.         SPACE         SPACE         IS MINDOW REC.         SPACE         SPACE         SPACE         IS MINDOW REC.         SPACE         SPACE         IS MINDOW REC.         SPACE         SPACE         SPACE         IS MINDOW REC.         SPACE         SPACE         SPACE         IS MINDOW REC.         SPACE         SPACE         IS MINDOW REC.         SPACE         <	L 31 SIGNAGE	20A	1	1200						1	20A		SPARE 32	2	$-\bowtie$
R         35         WINDOW REC.         20A         1         500         1         20A         ESRACH-IN SOLID SWING DOE REEZER 38         K           39         39 WALK-IN COOLERLITG         20A         1         300         1104         1         20A         ES REACH-IN SOLID SWING DOE REEZER 38         K           39         39 SPACE         1         300         1104         1         20A         ES REACH-IN SOLID SWING DOE REEZER 38         K           1         SPACE         1         20A         2         3         3         3         10         10         2         2         2         3         3         3         3         10         10         2         2         3         3         10         1		20A	1		500					1	20A		SPARE 34	4	$\square$
L [ 37] WALK-IN COOLERLITG         20A         1         300         1104         1         20A         EPRAGE-INSOLID SWIND DODE FREEZER [38] K           39] SPACE         39] SPACE         30         100         100         39         SPACE [40]         1         1         SPACE [40]         1         1         SPACE [40]         1         1         SPACE [40]         1         1         1         SPACE [40]         1<	R 35 WINDOW REC.	20A	1			500				1	20A		SPARE 36	6	$\square$
Image: Space         Image: Space         Space <td>L 37 WALK-IN COOLER LTG</td> <td>20A</td> <td>1</td> <td>300</td> <td></td> <td></td> <td>1104</td> <td></td> <td></td> <td>1</td> <td>20A</td> <td>E5 REA CH-IN SOLID SWING DOC</td> <td>E FREEZER 38</td> <td>8 1</td> <td><math>\langle \bigcirc</math></td>	L 37 WALK-IN COOLER LTG	20A	1	300			1104			1	20A	E5 REA CH-IN SOLID SWING DOC	E FREEZER 38	8 1	$\langle \bigcirc$
<ul> <li></li></ul>	39 SPACE												SPACE 40	0	$\bigcirc$
ØA         ØB         ØC           TOTAL LOAD DEMAND:         7779         7474         6890         89%         PERCENT BALANCE           TOTAL DEMAND AMPS:         65 A         62 A         57 A           LOAD CLASSIFICATION         CONNECTED LOAD         DEMAND FACTOR         ESTIMATED DEMAND         PANEL LOADS           CONTINUOUS LOAD = C         0         125%         0													SPACE 42	2	$\bigcirc$
TOTAL LOAD DEMAND:77797474689089%PERCENT BALANCETOTAL DEMAND AMPS:65 A62 A57 ALOAD CLASSIFICATIONCONNECTED LOADDEMAND FACTORESTIMATED DEMANDPANEL LOADSCONTINUOUS LOAD = C0125%0				Q	ðA	Ø	ØВ	Ø	С						
TOTAL DEMAND AMPS:       65 A       62 A       57 A         LOAD CLASSIFICATION       CONTINUOUS LOAD = C       0       DEMAND FACTOR       ESTIMATED DEMAND       PANEL LOADS         CONTINUOUS LOAD = C       0       125%       0           KITCHEN EQUIPMENT LOAD = K       16535       65%       10748       TOTAL CONN. LOAD (VA):       27239         LIGHTING LOAD = L       2492       125%       3115       TOTAL EST. DEMAND (VA):       22144         MOTOR LOAD = M       276       100%       345       TOTAL CONN. (AMPS):       76         NON-CONTINUOUS LOAD = N       2996       100%       2996       TOTAL EST. DEMAND (AWPS):       61         PANEL LOAD = P       0       100%       0       100%       0       100%       100%         PANEL SCHEDULE NOTES:       (5) PROVIDE LOCK-OFF DEVICE.       (5) PROVIDE "HACR" TYPE CIRCUIT BREAKER       FOR HVAC EQUIPMENT.         (3) PROVIDE LOCK-OFF DEVICE.       (5) PROVIDE "HACR" TYPE CIRCUIT BREAKER       FOR HVAC EQUIPMENT.         (4) PROVIDE A NEW BREAKER AT SAME TYPE       50 ROVIDE "HACR" TYPE CIRCUIT BREAKER       FOR HVAC EQUIPMENT.		TOTAL LOA	D DEMAND:	77	79	74	.74	68	90		89%	PERCENT BALANCE			
LOAD CLASSIFICATION       CONNECTED LOAD       DEWAND PACTOR       ESTIMATED DEWAND       PAREL LOADS         CONTINUOUS LOAD = C       0       125%       0		TOTALDEN	AND AMPS:	65	A	62		5/	A						
Image: Construction of the constructined of the construction of the construction of the construction of		<u> </u>	CONNE				125%	IUR	ESI		VIAIND	PANEL LOADS			
Lighting Load = L         2492         10%         10%         10%         10%         11%           Lighting Load = L         2492         125%         3115         TOTAL EST. DEMAND (VA):         22144           MOTOR LOAD = M         276         100%         345         TOTAL CONN. (AMPS):         76           NON-CONTINUOUS LOAD = N         2996         100%         0         61           PANEL LOAD = P         0         100%         0         61           PANEL SCHEDULE NOTES:         0         100%         4940         0           1         PROVIDE LOCK-ON DEVICE.         5         PROVIDE "HACR" TYPE CIRCUIT BREAKER         FOR HVAC EQUIPMENT.           3         PROVIDE A NEW BREAKER AT SAME TYPE         FOR HVAC EQUIPMENT.         5         FOR HVAC EQUIPMENT.		ĸ		16535			65%			10748			27239	)	
MOTOR LOAD = M     276     100%     345     TOTAL CONN. (AMPS):     76       NON-CONTINUOUS LOAD = N     2996     100%     2996     TOTAL EST. DEMAND (AMPS):     61       PANEL LOAD = P     0     100%     0     0     0       RECEPTACLE LOAD = R     4940     100%     4940     0       PANEL SCHEDULE NOTES:     (3) PROVIDE LOCK-ON DEVICE.     (3) PROVIDE "HACR" TYPE CIRCUIT BREAKER FOR HVAC EQUIPMENT.     FOR HVAC EQUIPMENT.	LIGHTING I OAD =			2492			125%			3115		TOTAL EST. DEMAND (VA)	22144		
NON-CONTINUOUS LOAD = N       2996       100%       2996       TOTAL EST. DEMAND (AMPS):       61         PANEL LOAD = P       0       100%       0 </td <td>MOTOR LOAD =</td> <td>M</td> <td></td> <td>276</td> <td></td> <td></td> <td>100%</td> <td></td> <td></td> <td>345</td> <td></td> <td>TOTAL CONN. (AMPS):</td> <td>76</td> <td></td> <td></td>	MOTOR LOAD =	M		276			100%			345		TOTAL CONN. (AMPS):	76		
PANEL LOAD = P       0       100%       0         RECEPTACLE LOAD = R       4940       100%       4940         PANEL SCHEDULE NOTES:       •       •       •         1       PROVIDE LOCK-ON DEVICE.       •       PROVIDE "HACR" TYPE CIRCUIT BREAKER         2       PROVIDE LOCK-OFF DEVICE.       •       FOR HVAC EQUIPMENT.         3       PROVIDE GFCI TYPE DEVICE.       •         4       PROVIDE A NEW BREAKER AT SAME TYPE	NON-CONTINUOUS LOAD =	N		2996			100%			2996		TOTAL EST. DEMAND (AMPS):	61		
RECEPTACLE LOAD = R       4940       100%       4940         PANEL SCHEDULE NOTES:          1         PROVIDE LOCK-ON DEVICE.           5         PROVIDE "HACR" TYPE CIRCUIT BREAKER          Image: PROVIDE LOCK-OFF DEVICE.          5         PROVIDE "HACR" TYPE CIRCUIT BREAKER          Image: PROVIDE LOCK-OFF DEVICE.          FOR HVAC EQUIPMENT.          Image: PROVIDE GFCI TYPE DEVICE.          FOR HVAC EQUIPMENT.          Image: PROVIDE A NEW BREAKER AT SAME TYPE           Hord to the same type	PANEL LOAD =	P		0			100%			0					
PANEL SCHEDULE NOTES:         ① PROVIDE LOCK-ON DEVICE.         ② PROVIDE LOCK-OFF DEVICE.         ③ PROVIDE GFCI TYPE DEVICE.         ④ PROVIDE A NEW BREAKER AT SAME TYPE	RECEPTACLE LOAD =	R	1	4940			100%			4940					
AND AIC RATING IN PANEL	<ul> <li>PANEL SCHEDULE NOTES:</li> <li>1 PROVIDE LOCK-ON DEVICE.</li> <li>2 PROVIDE LOCK-OFF DEVICE.</li> <li>3 PROVIDE GFCI TYPE DEVICE.</li> <li>4 PROVIDE A NEW BREAKER AT SAME TYPE AND AIC RATING IN PANEL</li> </ul>		(5)	PROVIDE FOR HVAC	"HACR" TY	PE CIRCUIT	T BREAKER	3							

## **REFERENCE NOTES**

1 EXISTING PANEL WITH REVISED LOADS. REFER TO PANEL SCHEDULE THIS SHEET. ALL NEW CIRCUIT BREAKERS INSTALLED WITHIN PANELBOARD SHALL MATCH THE HIGHEST EXISTING AIC RATED BREAKERS WITHIN PANELBOARD.



		are version 4.	.1.5.1				& Req.ID	Rough-In Electrical Inspection
V	Interior Light	ing Comp	liance C	ertifica	ate		C405.2.1 [EL15] <sup>1</sup>	Lighting controls installed to uniform reduce the lighting load by at least 50%.
Project Informa	tion	_					C405.2.1 [EL18] <sup>1</sup>	Occupancy sensors installed in required spaces.
∃nergy Code: Project Title: Project Type:	2015 IEC0 Tekter New Cons	c					C405 2 1	Independent lighting controls instal
Construction Site:	Owner/	'Agent:	Designer/C Kinetic D	ontractor:			C405.2.1, C405.2.2. 3 [EL23] <sup>2</sup>	per approved lighting plans and all manual controls readily accessible visible to occupants.
Lees Summit, MO	iency Package(s)		1260 Cor Corona, ( (951) 71( info@kin	cona Point Court CA 92879 D-6334 eticdesign.build			C405.2.2. 1 [EL22] <sup>2</sup>	Automatic controls to shut off all building lighting installed in all buildings.
Unspecified							C405.2.3 [EL16] <sup>2</sup>	Daylight zones provided with individual controls that control the
Allowed Interior	r Lighting Power A Area Category		B Floor Area	C	D Allowed Watts		C405.2.3	lighting.
1-Nekter (Common S	Space Types:Sales Area)		(ft2) 800	<b>Watts / ft2</b> 1.59	(B X C) 1272	-	C405.2.3, C405.2.3. 1, C405.2.3.	equipped with required lighting controls.
Proposed Interi	or Lighting Power		To	tal Allowed Watts =	= 1272		2 [EL20] <sup>1</sup>	
Fixture	A e ID : Description / Lamp / Watt	age Per Lamp / Ballast	B Lamps/ Fixture	C D # of Fixt Fixtures Wa	D E cure (C X D) att.		C405.2.3, C405.2.3. 1, C405.2.3.	Enclosed spaces with daylight area under skylights and rooftop monitor are equipped with required lighting controls.
-Nekter (Common LED 1: LTF-1: 2'X	<u>n Space Types:Sales Area)</u> 4' TROFFER: Other:		1	5	39 195	_	3 [EL21] <sup>1</sup>	
LED 2: LRC-1: DO LED 3: LEB-1: DO LED 4: DLB-1: Per LED 5: LTB-6: Mo	DWN LIGHT: Other: DWNLIGHT ADJUSTABLE: Other: ndant: Other: mopoint: Other:		1 1 1 1	10	25 250 14 84 12 72 20 40		C405.2.4 [EL4] <sup>1</sup>	Separate lighting control devices fo specific uses installed per approved lighting plans.
			·	Total Proposed W	atts = 641	-	C405.2.4	Additional interior lighting power
nterior Lighting	g PASSES: Design 50% bett g Compliance Statement	er than code					[EL8] <sup>1</sup>	allowed for special functions per the approved lighting plans and is automatically controlled and
Compliance Staten pecifications, and lesigned to meet equirements liste	<i>ment:</i> The proposed interior ligh dother calculations submitted wi the 2015 IECC requirements in C d in the Inspection Checklist.	ting design represented in th this permit application. OM <i>check</i> Version 4.1.5.1 a	this document is co The proposed interi and to comply with a	onsistent with the or lighting syster any applicable m	e building plans, ms have been andatory		C405.3 [EL6] <sup>1</sup>	separated from general lighting. Exit signs do not exceed 5 watts pe face.
Wenceslao F	Raymundo	 Signature		07-30	)-2021		Addition	al Commonts/Assumptions:
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