	LIGHTING SYMBOLS			SPECIAL SYSTEMS SYMBOLS		
SYMBOL	DESCRIPTION	MH (UON)	SYMBOL	DESCRIPTION	MH (UON)	SYL
\$	SINGLE POLE TOGGLE SWITCH	48" TOD	Þ	FIRE ALARM HORN TYPE SPEAKER	NOTE 5	\$
\$a	SWITCH: SUB-LETTER INDICATES FIXTURES CONTROLLED (a)	48" TOD	ŒH	FIRE ALARM FLASHING STROBE LIGHT - WALL MOUNTED	NOTE 5	\$
<b>\$</b> <sub>2</sub>	DOUBLE POLE TOGGLE SWITCH	48" TOD	ÞĒ	FIRE ALARM HORN	NOTE 5	•
<b>\$</b> <sub>3</sub>	THREE-WAY TOGGLE SWITCH (SPDT)	48" TOD	₽E	COMBINATION FIRE ALARM HORN AND FLASHING STROBE LIGHT	NOTE 5	E
<b>S</b> <sub>4</sub>	FOUR-WAY TOGGLE SWITCH (DPDT)	48"	© (E)	S - CEILING SPEAKER, F - FIRE ALARM SPEAKER		
<b>s</b> <sub>K</sub>	KEY OPERATED SWITCH	TOD 48"	ØØ	FIRE ALARM STROBE, S - SPEAKER/STROBE, F - STROBE		
\$ <sub>3D a</sub>	THREE WAY DIMMER SWITCH:	TOD 48"	NS	ONLY HORN TYPE SPEAKER		
	SUBLETTER INDICATES FIXTURES CONTROLLED (a)  MANUAL STARTER W/OVERLOADS	TOD 48"	H	MAGNETIC DOOR HOLDER		
\$ <sub>M</sub>		TOD	DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER		
\$ <sub>P</sub>	SWITCH W/ PILOT LIGHT	48" TOD	FAAP	FIRE ALARM ANNUNCIATOR PANEL		
\$ <sub>D</sub>	DIMMER SWITCH	48" TOD	FACP	FIRE ALARM CONTROL PANEL		GFI
\$ <sub>4D</sub>	4 BUTTON DIMMER SWITCH	48" TOD	RAM	RESCUE ASSISTANCE MASTER CONTROL PANEL	48"	GFI
\$ <sub>LV</sub>	LOW VOLTAGE CONTROL SWITCH	48" TOD	RAR	RESCUE ASSISTANCE REMOTE STATION	TOD 48" TOD	Н
\$ <sub>T</sub>	MANUAL TIME SWITCH	48" TOD	TP	FIRE ALARM TRANSPONDER	TOD	IG
\$ <sub>C</sub>	MOMENTARY CONTACT SWITCH	48" TOD	DS ES	DOOR SOLENOID, ELECTRIC STRIKE - LOCKING DEVICE CONNECTION POINT		
\$ <sub>WP</sub>	SWITCH WITH WEATHER PROOF ENCLOSURE	48"	E	FIRE ALARM PULL STATION	48"	
<b>6</b> 9 <b>6</b> 3	OCCUPANCY SENSOR (CEILING & WALL MOUNTED)	TOD		HEAT DETECTOR:	TOD	IG
0	VACANCY SENSOR		♦ •	E - ELEVATOR CONTROLS  SMOKE DETECTOR (PHOTOELECTRIC):		С
_	TIME CLOCK		€ <sub>AB</sub> © <sub>E</sub>	IF LABELED AB = AUDIBLE BASE, E = ELEVATOR CONTROLS		
			$\Diamond$	SMOKE DETECTOR (IONIZATION)		С
R	RELAY		•	FIRE ALARM DUCT DETECTOR WITH RELAY		P
L	LIGHTING CONTACTOR		<b>\$</b>	CARBON MONOXIDE DETECTOR		Α
Р	PHOTOCELL OR PUSHPLATE SWITCH		ARC	FIRE ALARM SYSTEM ADDRESSABLE RELAY - CONTROL		В
UL924	EMERGENCY SHUNT RELAY, UL 924 LISTED (CEILING MOUNTED)		ARM	FIRE ALARM SYSTEM ADDRESSABLE RELAY - MONITOR		С
	LIGHTING FIXTURE: RECESSED, SURFACE, OR PENDANT MOUNTED - TYPE AS	SPECIEIED	RAL	FIRE ALARM SYSTEM REMOTE ALARM LIGHT		D
	LIGHTING FIXTURE:	OI EOII IED	FS	FLOW SWITCH CONNECTION		А
<u> </u>	2 BALLAST LIGHTING FIXTURE:			TAMPER SWITCH CONNECTION		А
	INDUSTRIAL LIGHTING FIXTURE:		TS TRAGMITTER RECEIVER LBT UGHT BEAM LBR	FIRE ALARM LINEAR BEAM SMOKE DETECTOR:		
<u> </u>	WALL MOUNTED - TYPE AS SPECIFIED LIGHTING FIXTURE:		E	TRANSMITTER (LBT) AND RECEIVER (LBR) FIRE FIGHTER'S TELEPHONE JACK		
0	RECESSED, SURFACE, OR PENDANT MOUNTED		▼	MONITOR SYSTEM JUNCTION BOX	48" TOD	Н
Ot	LIGHTING FIXTURE: WALL MOUNTED - TYPE AS SPECIFIED		M		36" CTR	
•	WALL WASHER		A	AMPLIFIER		e
<0	ADJUSTABLE WALL WASHER		K	KEYPAD	48" TOD	[
• •	LIGHTING FIXTURE ON EMERGENCY OR NIGHT LIGHT CIRC	CUIT (NL)	CR	CARD READER	48" TOD	
ㅂ	EMERGENCY BATTERY PACK: W/ NUMBER OF HEADS INDICATED		DA	DOOR ALARM CONTACT	100	
<b>B</b>	EMERGENCY BATTERY PACK:		□4	ROUGH-IN JUNCTION BOX FOR CCTV CAMERA, PROVIDE CAT	5	
_	W/ REMOTE HEADS  REMOTE EMERGENCY HEAD			CABLING THROUGH J-HOOKS FROM IT ROOM TO ALL LOCATIONS, MOUNT EXTERIOR CAMERAS 88" ABOVE TOP OF SLAB TO CENTER. INTERIOR CAMERAS 6" BELOW FINISHED CELLING		
	EMERGENCY BATTERY PACK:		P	PUSH BUTTON PLATE		
	SEMI RECESSED, CEILING MOUNT EXIT SIGN:		¥	TELEVISION ANTENNA OUTLET	18"	
€	CEILING OR PENDANT MOUNTED (SHADED PORTION INDIC	CATES FACE)		CABLE TV OUTLET	CTR	
<b>ğ</b> i ⊗i	EXIT SIGN: WALL MOUNTED - END, BACK		© M			*
<del>10</del> †	EXIT SIGN: W/ DIRECTIONAL ARROWS			TELEVISION SYSTEM SPLITTER - 2 WAY, 4 WAY		[
D• D•D	POLE MOUNTED LIGHTING FIXTURE: SINGLE HEAD, DOUBLE HEAD		CD.	A/V CREDENZA LOCATION		(40A)
			ĮΉ	J-HOOK MOUNTED 6" ABOVE CEILING GRID	'Manual y	[
			PR	PROXIMITY READER, PROVIDE 19 UIT FOR OR HARDWARE		į
			R	A/V IN-WALL RACK		[
	CIRCUIT DESIGNATIONS		MT	V MONITO V		[
TING	A # a POWER	#	<u>sc</u>	A CREE CONTROL		
URE TYPE — UIT DESIGNA	CIRCUIT DESIGNATION (#12AWG MINIMUM)		_			
WG MINIMUM				A/V SIN SEE TV		
FCH DESIGNAT	10IV			A/V TOUC PANEL		
	<b>_</b>			DATA/TELEPHONE OUTLET, CEILING MOUNTED. NUMBER INDICATES QUANTITY OF DROPS. 1=DATA, 0=PHONE		
CTRIC	AL SYMBOLS NOTES	<b>\</b>		TELEPHONE OUTLET	18" CTD	
IS IS A STANDA	ARD SYMBOL LIST. SOME SYMBOLS MAY NOT A PREAD IN TH		<b>V</b> AC	DATA OUTLET, PROVIDE 1" CONDUIT WITH 2 DATA DROPS	CTR 18"	
COMPANYING	DRAWINGS. FICATIONS FOR DETAILED HEADENEAND	<b>W</b>		TO JUNCTION BOX IN WALL. "AC" IF LISTED INDICATES MOUNTING 6" ABOVE BACKSPLASH OR COUNTER.	CTR	
	ON SYMBOLS MANAGED BE USED WISER WARRAMS.		$ ightharpoons^{W}$	TELEPHONE OUTLET, WALL MOUNTED. PROVIDE 1* CONDUIT WITH ONE DATA DROP TO JUNCTION BOX IN WALL.	54" CTR	[
SINGLE LINE HERWISE NOT	DIAGRAMS FOR PHASE SYSTEMS, DISCE QUARTER 3, UNITED.	ILESS			•••	[
VICE SHALL BI	E MOUNTED A MEMON OF 90" AFF TO OTTOM OF DEVICE O	R BELOW	4	DATA/TELEPHONE OUTLET: UNSHADED AREA = DATA, SHADED AREA = VOICE NUMERALS INDICATE QUANTITY OF WIRED JACKS	18" CTR	[
LESS OTHERV	EILING OF NOT LES AN 6" TO TOP DEVICE, WHICHEVER VISE NOTED, ALL INTERNATION OF STAND BOXES SHALL BE	IS LOWER.	✓	NUMERALS INDICATE QUANTITY OF WIRED JACKS  TELEPHONE OUTLET, FLOOR MOUNTED	OIH	
NCEALED.	L CONFORM TO 2017 EDITION OF THE NATIONAL ELECTRICAL	CODE				ı
ATE BUILDING	CODE, AND LOCAL AUTHORITY REQUIREMENTS.		⋈	DATA OUTLET, FLOOR MOUNTED		,
" ELECTRICAL PROVED BY A	EQUIPMENT AND DEVICES MUST BE UL/LABEL LISTED OR 3RI NC APPROVED TESTING AGENCY.	D PARTY	V	DATA/TELEPHONE OUTLET, FLOOR MOUNTED: UNSHADED AREA = DATA, SHADED AREA = VOICE		E
L CONDUCTOR	RS LESS THAN 100A SHALL BE RATED FOR 60 °C UNLESS TERM . ALL CONDUCTORS GREATER THAN 100A SHALL BE RATED F	INALS ARE OR 75°C.		NUMERALS INDICATE QUANTITY OF WIRED JACKS		
	ICTOR SIZE SHALL BE #12. SEE SPECIFICATIONS FOR ADDITIO			COMBINATION POWER & TELEPHONE OUTLET, FLOOR MOUNTED		
NIMUM CONDU	JIT SIZE SHALL BE 3/4". SEE SPECIFICATIONS FOR ADDITIONAL			COMBINATION POWER & DATA OUTLET, FLOOR MOUNTED		
ORMATION.				DOUBLE DUPLEX RECEPTACLE, 4 DATA DROPS		
			DHR W	COMPINATION DOWER & DATA TELEBRIONE OUTLET		

COMBINATION POWER & DATA/TELEPHONE OUTLET, FLOOR MOUNTED

WIRELESS ACCESS POINT, PROVIDE CAT 6 CABLING THROUGH J-HOOKS FROM IT ROOM TO ALL LOCATIONS

## **ELECTRICAL ABBREVIATIONS**

POWER SYMBOLS

MH (UON)

48" TOD

18" CTR

18" CTR

18" CTR

54" CTR

18" CTR

18" CTR

36" CTR

54" CTR

18" CTR

18" CTR

18" CTR

SYMBOL

 $\bowtie$ 

**PP** 

 $\nabla \Phi \Phi \nabla$ 

◉

 $\times$ 

**GENERAL NOTES** 

DESCRIPTION

RACEWAY CONCEALED IN SLAB OR BELOW GRADE BRANCH CIRCUIT HOMERUN TO PANELBOARD: QUANTITY OF CIRCUITS INDICATED BY ARROWS NUMBER OF CONDUCTORS SHALL BE MINMUM 4#12 AND 1#12 AWG GROUND IN 3/4\* CONDUIT (UON)

CONDUCTORS SHALL BE MINIMUM 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT (UON)

BUS DUCT OR CABLE TRAY "UP" OR "TOWARDS"

BUS DUCT OR CABLE TRAY "DOWN" OR "AWAY"

TELEPHONE AND POWER POLE ASSEMBLY VIII VIIII CONCRETE ENCASED DUCTBANK BELOW GRADE

SURFACE MOUNTED RACEWAY ASSEMBLY WITH

SIZE AS INDICATED
MULTI-OUTLET ASSEMBLY:
WITH RECEPTACLES LOCATED WHERE INDICATED

2 CELL MULTI-OUTLET ASSEMBLY: WITH COMMUNICATION DEVICES AND RECEPTACLES LOCATED WHERE INDICATED

MULTI-OUTLET ASSEMBLY: WITH COMMUNICATION DEVICES LOCATED WHERE INDICATED

A. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE COMMENCING WORK.

THIS CONTRACT REQUIRES COMPLETE, FRISHED WORKABLE PROJECT OF THE AREAS NOW. AT THE AREAS NOW. AND A THE AREAS NOW. AND THE AREAS NOW. AT THE AREAS NOW. AT THE AREAS NOW. AND A THE AREAS NOW. AND A THE AREAS NOW. AND THE AREAS NOW. AND A THE AREAS NOW. AT THE AREAS NOW. AND A THE AREAS NOW.

AS A NAMMAN, ALL WORK SHALL CONFORM TO THE APPLICABLE BUILDING CODE ADDPTED BY THE JURISDICTION OF THE WORK, WHERE MORE STRINGENT CODES ARE ADDPTED. THEY SHALL COVERT IT HE WORK.
ALL WORK SHALL CONFORM TO APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL CODES AND FORDWANCES.

CODES AND ORDINANCES.

TO PROVIDE ACCESSIBILITY FOR THE PHYSICALLY HANDICAPPED, ALL WORK SHALL CONFORM TO PUBLIC LUM! 101 305 (AMERICANS WITH DASABLITIES ACT 17 1905). BY THE JURISDICTION OF THE WORK PLICAGE HE PARE 101 LIFE SAFETY CODE ADOPTED BY THE JURISDICTION OF THE WORK PLICAGE. AROUND ALL EXPOSED PIPES, CONDUIT OR DUCTS, INSTALL ENCLOSURES OF THE SAME MATERIAL AND PRISHS AS ADDACHT WORK, URLESS NOTED OTHERWISE.

MATERIAL AND FINISH AS ADJACENT WORK, UNLESS NOTED OTHERWISE.

LOUVERS, GRILLES, VENTLATORS AND FARS SHALL BE BULT SHALLY VITO OPENINGS.

ALL SUCH ASSEMBLES TO BE FLASHED, WATERSTOPPED AND SEALED.

FELD CHECK ALL ROUGH ANDOE PINISH DIMENSIONS FOR ACCURATE FITTING OF COUNTRY. CABINETS, COUNTERS, FOTURES AND ACCURATE FITTING OF COUNTRY. COUNTRY OF THE SHALL AND ASSEMBLES SHAPPED AND ASSEMBLES ASSEMBLES FOR TERM ALL MOUNTED DEVICES OF CONTROLS SHALLS DAKES OF THEM.

ALL SWITCHES, OUTLETS, THERMOSTATS, CLOCKS, SPEAKERS OR OTHER WALL MOUNTED DEVICES OR CONTROLS SHALL BE INSTALLED IN LOCATIONS WHICH ARE UNDESTROED BY CABINETS, COUNTRIS, RACKS, FIXTURES, FURNISHINGS OR EQUIPMENT, ITEMS INTENDED FOR WALL MOUNTED BY AND ASSEMBLES OF THE WALL MOUNTED BY THE COUPMENT THEMS.

THE COUPMENT HILLIES SPECIFICALLY CALLED FOR VERRY MOUNTING HEIGHTS.

OF ALL ITEMS.

DUTLETS ON THE CMU ARE TO BE RECESSED AND NOT SURFACE MOUNTED.

IF THE EWC SELECTION MAKES THE RECEPTACLE INACCESSIBLE, REPLACE WITH A STANDARD DUPLEX AND GRI-TYPE BREAKER.

S. SEE MOTOR AND EQUIPMENT CONNECTION SCHEDULE ON SHEET E-601 FOR CIRCUIT AND CONTROL INFORMATION.
T. WIRE ALL CIRCUITS TO PANEL A UNLESS NOTED OTHERWISE.

BUS DUCT: TYPE AND SIZE AS INDICATED

FLEXIBLE CONDUIT

CABLE TRAY

LIGHTNING PROTE

RACEWAY "DOWN" OR "AWAY"

DESCRIPTION

DUPLEX RECEPTACLE:
'E' (IF SHOWN) INDICATES CONNECTED TO EMERGENCY CIRCUIT
DUPLEX RECEPTACLE:
FLOOR MOUNTED

DUPLEX RECEPTACLE: SPLIT WIRED, BOTTOM HALF SWITCHED DUPLEX RECEPTACLE: CEILING MOUNTED

DUPLEX RECEPTACLE: MOUNTED 6" ABOVE BACKSPLASH OR COUNTER

DUPLEX RECEPTACLE: GFI MOUNTED 6" ABOVE BACKSPLASH OR COUNTER

COMBINATION SWITCH AND DUPLEX RECEPTACLE

SIMPLEX RECEPTACLE

DUPLEX RECEPTACLE: PEDESTAL TYPE

DUPLEX RECEPTACLE: ISOLATED GROUND

DUPLEX RECEPTACLE: AT 54" A.F.F.

SIMPLEX RECEPTACLE: CART RECHARGE

DOUBLE DUPLEX RECEPTACLE

SPECIAL RECEPTACLE: NEMA 6-20R (20A, 2P, 3W, 208V)

SPECIAL RECEPTACLE: NEMA 14-20R (20A, 3P, 4W, 208/120V)

SPECIAL RECEPTACLE: FLOOR MOUNTED, NEMA 6-20R

SPECIAL RECEPTACLE: PEDESTAL TYPE, NEMA 6-20R

TELEVISION RECEPTACLE TELEVISION RECEPTACLE CLOCK HANGER OUTLET

PROGRAM CLOCK OUTLET: SINGLE FACE, DOUBLE FACE

CTION - NUMBER INDICATES KILOWATTS

COMBINATION MAGNETIC MOTOR STARTER: ABBREVIATION INDICATES TYPE - FVNR, FVR, RVAT, 2S1W, 2S2W, SST

VARIABLE FREQUENCY DRIVE W/ DISCONNECT SWITCH

MANUAL MOTOR STARTER W/THERMAL OVERLOADS

MECHANICAL EQUIPMENT CONNECTION - WITH MOTOR

MOMENTARY CONTACT START-STOP PUSHBUTTON STATION

MAINTAINED CONTACT START-STOP PUSHBUTTON STATION

TRANSFORMER, CONCRETE PAD MOUNTED

3

VARIABLE FREQUENCY CONTROLLER W/ FUSED DISCONNECT SWITCH

MOTOR: NUMERALS (IF SHOWN) INDICATE HP

GENERATOR: NUMERALS (IF SHOWN) INDICATE KW

CONTROL PANEL: TYPE AS INDICATED

BRANCH PANELBOARD

JUNCTION BOX

	IS A STANDARD ABBREVIATION LIST. SOME ABBRE	/IATIONS MAY NOT	APPEAR ON THE ACCOMPANYING DRAWING
2S1W	2 SPEED SINGLE WINDING	KVAR	KILOVOLT AMPERES REACTIVE
2S2W	2 SPEED DOUBLE WINDING	KW	KILOWATTS
		KWH	KILOWATT HOUR
A, AMP A/C	AMPERE AIR CONDITIONING	LA	LIGHTNING ARRESTOR
A/C AC	ALTERNATING CURRENT	LC	LIGHTING ARRESTOR
AFCI	ARC FAULT CIRCUIT INTERRUPTER	LCP	LIGHTING CONTROL PANEL
AFF	ABOVE FINISHED FLOOR	LBA	LOCKED ROTOR AMPERES
AFG	ABOVE FINAL GRADE	LTG	LIGHTING
AHU	AIR HANDLING UNIT	LTNG	LIGHTNING
AIC	AMPS INTERRUPTING CAPACITY		
ALT	ALTERNATE	MATV	MASTER ANTENNA TELEVISION
ANN APPROX	ANNUNCIATOR APPROXIMATELY	MCB MCC	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER
ARCH	ARCHITECT	MEH	METAL HALIDE
ATC	AUTOMATIC TEMPERATURE CONTROL	MH	MANHOLE, MOUNTING HEIGHT
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
AV	AUDIOVISUAL	MSP	MOTOR STARTER PANEL
AWG	AMERICAN WIRE GAUGE	MTD	MOUNTED
		MV	MERCURY VAPOR
BAS BFC	BUILDING AUTOMATION SYSTEM BELOW FINISHED CEILING	NC	NORMALLY CLOSED //
BFG	BELOW FINISHED CEILING BELOW FINISHED GRADE	NEC	NATIONAL ELECTRIC COMMA
BLDG	BUILDING	NESS	NON-FUSED SAFETY SWITCH
BOD	BOTTOM OF DEVICE	NO	NON-FUSED SAFETY SWITCH NUMBER, NO MALE SEN
			// 'W/\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
C, CND	CONDUIT	oc	ON CENTER W
CATV	CABLE TELEVISION	OFCI	IN ALLED
CB	CIRCUIT BREAKER	OFOI &	OWNER FURNISHED OWNER
CCTV CKT, CCT	CLOSED CIRCUIT TELEVISION	0101	INSTALLED
CKT, CCT	CURRENT LIMITING	он 🥡	OVERHEA
CLG	CEILING ATTION	. "	Mandh
CONN	CONNECT	P	***************************************
CPT	CONTROL POWER TRANSFORMER	PB	PUSHBUTTON
CT	CURRENT TRANSFORMER	₽FCC	POWER FACTOR CORRECTION
CTR	GENTER MAIN	111	POWER FACTOR CORRECTION CAPACITOR
CU, CO	CONNECT STATES	<b>∭</b> PL	PILOT LIGHT
CX	CONNECT	PLC	PROGRAMMABLE LIGHTING CONTRO
DC	DAMES CURRENTS	PNL	PANEL
DISC	DISCOMMENT	PP	POWER PANEL
DN	DOWN WAR WIND	Pp	PUMP
DP	DISTRIBUTION PANAL	PR PBN	PAIR PRINTER
DPDT	DOUBLE POUBLE THROW DOUBLE BY LE SINGLE THROW	PT	POTENTIAL TRANSFORMER
PST	DOUBLE DOLE SINGLE THROW	PVC	POLYVINYL CHLORIDE
	DOMLE THROW AWING	Ø, PH	PHASE
	January Company of the Company of th		
F WAS	EMERGENCY	QTY	QUANTITY
BK	EACH		
EC	EMPTY CONDUIT	RCS	REMOTE CONTROL SWITCH
EF	EXHAUST FAN	REC, RECPT	RECEPTACLE
EH	ELECTRIC HEATER	REO'D	REQUIRED
ELEC	ELECTRIC	BFI	RADIO FREQUENCY INTERFERENCE
ELEV ETB	ELEVATION, ELEVATOR	RGAP	REMOTE GENERATOR ANNUNCIATO PANEL
EWC	EXISTING TO REMAIN ELECTRIC WATER COOLER		PANEL
EX	EXISTING	RGS RLA	RIGID GALVANIZED STEEL RUNNING LOAD AMPERES
EXP	EXPOSED	BM BM	ROOM
		BVAT	REDUCED VOLTAGE AUTO TRANSFORMER
FA	FIRE ALARM		TRANSFORMER
FAAP	FIRE ALARM ANNUNCIATOR PANEL	BX	REMOVE EXISTING
FACP	FIRE ALARM CONTROL PANEL		
FATC	FIRE ALARM TERMINAL CABINET	SC	SURGE CAPACITOR
FBO FC	FURNISHED BY OTHERS FAN COIL	SEC	SECONDARY
FDB	FEEDER	SN, S/N SP	SOLID NEUTRAL SURGE PROTECTION
FLA	FULL LOAD AMPERES	SPD	SURGE PROTECTION DEVICE
FLR	FLOOR	SPDT	SINGLE POLE DOUBLE THROW
FR	FRAME	SS	SAFETY SWITCH
FU	FUSED, FUSIBLE	SST	SOLID STATE
FUSS	FUSED SAFETY SWITCH	ST	SINGLE THROW
FVNR	FULL VOLTAGE NON-REVERSING	SW	SWITCH
FVB	FULL VOLTAGE REVERSING	SWBD	SWITCHBOARD
GAP	GENERATOR ANNUNCIATOR PANEL	TBR	TO BE REMOVED
	GENERATOR, GENERAL	TBR	TIME CLOCK
	GROUND FAULT CIRCUIT INTERRUPTER	TC TEL, TELE	TIME CLOCK TELEPHONE
GEN GECI	AFFEDDURTED	TH TH	TUNGSTEN HALOGEN
GFCI	INTERRUPTER	TOC	TOP OF CABINET
GFCI GFI	GROUND FAULT INTERRUPTER		TOP OF DEVICE
GFCI GFI GFP	GROUND FAULT INTERRUPTER	TOD	TOP OF DEVICE
GFCI GFP GFR	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY	TRANS,	TRANSFORMER
GFCI GFP GFR GRD	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND	TRANS, XFMR	TRANSFORMER
GFCI GFP GFR	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY	TRANS, XFMR TTB	TRANSFORMER TELEPHONE TERMINAL BOARD
GFCI GFI GFP GFR GRD GRS	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL	TRANS, XFMR TTB TW	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED
GFCI GFP GFR GRD	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC	TRANS, XFMR TTB	TRANSFORMER TELEPHONE TERMINAL BOARD
GFCI GFI GFP GFR GRD GRS HID HOA HP	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL HIGH INTENSITY DISCHARGE HAND-OFF-AUTOMATIC	TRANS, XFMR TTB TW TYP	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL
GFCI GFI GFP GFR GRD GRS HID HOA HP	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALLYANIZED RIGHD STEEL HIGH INTENSITY DISCHARGE HAND GFF-AUTOMATIC HEAT PUMP. HORSEPOWER HIGH PRESSURE SODIUM	TRANS, XFMR TTB TW TYP UCB UG	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL UNIT CIRCUIT BREAKER UNDERGROUND
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL HIGH INTENSITY DISCHARGE HAND OFF-AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSURE SODIUM HEATER	TRANS, XFMR TTB TW TYP UCB UG UH	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL UNIT CIRCUIT BREAKER UNDERGROUND UNIT HEATER
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL HIGH INTENSITY DISCHARGE HAND OFF-AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSURE SODIUM HEATER HIGH POLTAGE	TRANS, XFMR TTB TW TYP UCB UG UH UON	TRANSFORMER  TELEPHONE TERMINAL BOARD TWISTED TYPICAL  UNIT CIRCUIT BREAKER UNDERGROUND UNIT HEATER UNLESS OTHERWISE NOTED
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL HIGH INTENSITY DISCHARGE HAND OFF-AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSURE SODIUM HEATER	TRANS, XFMR TTB TW TYP UCB UG UH	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL UNIT CIRCUIT BREAKER UNDERGROUND UNIT HEATER
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR HV HZ	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGHD STEEL HIGH INTENSITY DISCHARGE HAND GFF-AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSURE SODIUM HEATTER HIGH VOLTAGE HERTZ	TRANS, XFMR TTB TW TYP UCB UG UH UON	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL UNIT CIRCUIT BREAKER UNDERGROUND UNIT HEATER UNLESS OTHERWISE NOTED UNIT VENTILATOR
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL HIGH INTENSITY DISCHARGE HAND OFF-AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSURE SODIUM HEATER HIGH POLTAGE	TRANS, XFMR TTB TW TYP UCB UG UH UON UV	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL UNIT CIRCUIT BREAKER UNDERGOUND UNIT LIEATER UNESS OTHERWISE NOTED UNIT VENTILATOR VOLTS
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR HV HZ	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL HIGH INTENSITY DISCHARGE HAND OFF-AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSURE SODIUM HEATER HIGH PRESSURE SODIUM HEATER HIGH VOLTAGE HERTZ ISOLATED GROUND	TRANS, XFMR TTB TW TYP UCB UG UH UON UV V	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL UNIT CIRCUIT BREAKER UNDERGROUND UNIT HEATER UNLESS OTHERWISE NOTED UNIT VENTILATOR VOLTS VARIABLE FREQUENCY CONTROLLE
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR HV HZ	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGHD STEEL HIGH INTENSITY DISCHARGE HAND GFF-AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSURE SODIUM HEATTER HIGH VOLTAGE HERTZ	TRANS, XFMR TTB TW TYP UCB UG UH UON UV	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL UNIT CIRCUIT BREAKER UNDERGOUND UNIT LIEATER UNESS OTHERWISE NOTED UNIT VENTILATOR VOLTS
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR HV HZ	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGHD STEEL HIGH INTENSITY DISCHARGE HAND OFF-AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSURE SODIUM HEATER HIGH PAUTOMATE HIGH POLTAGE HERTZ ISOLATED GROUND JUNCTION BOX	TRANS, XFMB TTB TW TYP UCB UG UH UON UV V VFC VFD	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL UNIT CIRCUIT BREAKER UNDERGROUND UNIT HEATER UNLESS OTHERWISE NOTED UNIT VENTILATOR VOLTS VARIABLE FREQUENCY CONTROLLE VARIABLE FREQUENCY DRIVE
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR HV HZ IG JB KCMIL	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL HIGH INTENSITY DISCHARGE HAND OFF-AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSUME SODIUM HEATER ISCHARGE GROUND JUNCTION BOX THOUSAND CIRCULAR MILS THOUSAND CIRCULAR MILS	TRANS, XFMR TTB TW TYP UCB UG UH UON UV V VFC VFD	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL UNIT CIRCUIT BREAKER UNDERGROUND UNIT CIRCUIT BREAKER UNILESS OTHERWISE NOTED UNIT VERTILLATOR VOLTS VARIABLE FREQUENCY CONTROLLE VARIABLE FREQUENCY DRIVE WATTS, WIFE
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR HV HZ	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGHD STEEL HIGH INTENSITY DISCHARGE HAND OFF-AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSURE SODIUM HEATER HIGH PAUTOMATE HIGH POLTAGE HERTZ ISOLATED GROUND JUNCTION BOX	TRANS, XFMB TTB TW TYP UCB UG UH UON UV V VFC VFD	TRANSFORMER TELEPHONE TERMINAL BOARD TWISTED TYPICAL UNIT CIRCUIT BREAKER UNDERGROUND UNIT HEATER UNLESS OTHERWISE NOTED UNIT VENTILATOR VOLTS VARIABLE FREQUENCY CONTROLLE VARIABLE FREQUENCY DRIVE
GFCI GFI GFP GFR GRD GRS HID HOA HP HPS HTR HV HZ IG JB KCMIL KV	GROUND FAULT INTERRUPTER GROUND FAULT PROTECTED GROUND FAULT RELAY GROUND GALVANIZED RIGID STEEL HIGH INTERSITY DISCHARGE HAND OFF AUTOMATIC HEAT PUMP, HORSEPOWER HIGH PRESSURE SODIUM HEATER HIGH VOLTAGE HERTZ ISOLATED GROUND JUNCTION BOX THOUSAND CIRCULAR MILS KLOVOLTS	TRANS, XFMR TTB TW TYP UCB UG UH UON UV V VFC VFD W W/	TRANSFORMER TELEPHONE TERMINAL BOARD TWINSTED TYPICAL UNIT CIRCUIT BREAKER UNDERGROUND UNIT HEATER UNLESS OTHERWISE NOTED UNIT VENTILATOR VOLTS VARIABLE FREQUENCY CONTROLLE VARIABLE FREQUENCY DRIVE WATTS, WIRE WITH

## EQUIPMENT DESIGNATIONS

SYMBOL	DESCRIPTION
SWGR	SWITCHGEAR
SWBD	SWITCHBOARD
PNL	PANELBOARD
MCC	MOTOR CONTROL CENTER
XFMB	TRANSFORMER

## **ELECTRICAL DRAWING PRESENTATION**

SYMBOL	DESCRIPTION
<b>∠</b> ®	REVISION NUMBER
<u></u> 1	DRAWING NOTE NUMBER
XX XX XX	SECTION/ELEVATION IDENTIFICATION
XX xx	PART PLAN AND DETAIL IDENTIFICATION







AND (

CENTER A PARK

SHEET ISSUE: NO. DATE

09/2/2020 ISSUE FOR BID+PERMIT RMI

PRINCIPAL IN CHARGE PROJECT ENGINEER: DRAWN BY: SHEET TITLE:

Electrical Notes, Symbols and Abbreviations

E-001