ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (SP, 3P, 4P, ETC.)	CONDR	CONDUCTOR	GND	GROUND	NA	NOT APPLICABLE	SURF	SURFACE MOUNTED
1PH	1 PHASE	COORD	COORDINATE	GRS	GALVANIZED RIGID STEEL	NC	NORMALLY CLOSED	SW	SWITCH
3/C	TWO CONDUCTOR (2C, 4C, ETC.)	CPT	CONTROL POWER TRANSFORMER		(CONDUIT)	NEC	NATIONAL ELECTRICAL CODE	SWBD	SWITCHBOARD
3PH	THROWS (3W, 4W, ETC.)	CRI	COLOR RENDERING INDEX	GYP BD	GYPSUM BOARD	NEMA	NATIONAL ELECTRICAL	SYM	SYMMETRICAL
3PH	3 PHASE	CT	CURRENT TRANSFORMER				MANUFACTURERS	SYS	SYSTEM
4W	4 WIRE	CV	CABLE TELEVISION	HID	HIGH-INTENSITY DISCHARGE		ASSOCIATION		
AAF	ALARM ANNUNCIATOR PANEL	CTR	CENTER	HOA	HAND-OFF-AUTOMATIC	NFDS	NON-FUSED SAFETY	TC	TIME CLOCK
AC	ABOVE COUNTER	CU	COPPER	HP	HORSEPOWER		DISCONNECT SWITCH	TCNR	TELECOMMUNICATIONS
	AIR CONDITIONER	CU FT	CUBIC FEET			NIC	NOT IN CONTRACT	TCP	TEMPERATURE CONTROL PANEL
	AUTOMOTIVE CURRENT			HT	HEIGHT	NL	NIGHT LIGHT	TEL	TELEPHONE
ACC	ACCESSIBLE	dB	DECIBEL	HTR	HEATER	NO	NORMALLY OPEN	TELDATA	TELEPHONE/DATA
ACLG	ABOVE CEILING	DB	DIRECT BURIAL	HV	HIGH VOLTAGE	NTS	NOT TO SCALE	TERM	TERMINAL
ADD	AUTOMATIC DOOR OPENER	DC	DIRECT CURRENT	HVAC	HEATING, VENTILATING AND			TGB	TELCO GROUND BAR
AE	ARCHITECT/ENGINEER	DCP	DIMMER CONTROL PANEL		AIR CONDITIONING	OC	ON CENTER	TMGB	TELCO MAIN GROUND BAR
AF	ABP FRAME	DEG C	DEGREES CELSIUS			OD	OUTSIDE DIAMETER	TP	TWISTED PAIR
AFC	AVAILABLE FAULT CURRENT	DEG F	DEGREES FAHRENHEIT	IESNA	ILLUMINATION ENGINEERING SOCIETY OF	OH	OVERHEAD	TPS	TWISTED PAIR SHIELDED
AFF	ABOVE FINISHED FLOOR	DEMO	DEMOLISH/REMOVE/RELOCATE		OF NORTH AMERICA	OL	OVERLOAD	TR	TAMPER RESISTANT
AFG	ABOVE FINISHED GRADE	DEPT	DEPARTMENT	IG	ISOLATED GROUND			TRANS	TRANSFORMER
AFI	ARC FAULT CIRCUIT	DIA	DIAMETER	IMC	INTERMEDIATE METAL CONDUIT	PA	PUBLIC ADDRESS	TTB	TELEPHONE TERMINAL BOARD
	INTERRUPTER	DISC	DISCONNECT	INCAND	INCANDESCENT	PACS	PHYSICAL ACCESS CONTROL SYSTEM	TTC	TELEPHONE TERMINAL
AHJ	AUTHORITY HAVING JURISDICTION	DIST	DISTRIBUTION	IR	INFRARED	PB	PULL BOX OR PUBLIC		CABINET
AHU	AIR HANDLING UNIT	DN	DOWN	INV	INVERTER/ INVERTER	PBXU	PBX/KEY/INTERCOM UNIT	TV	TELEVISION
AIC	AMPERE INTERRUPTING CAPACITY	DS	SAFETY DISCONNECT SWITCH	IWH	INSTANTANEOUS WATER HEATER		PATIENT UNIT	TYP	TYPICAL
AL	ALUMINUM	DT	DOUBLE THROW			PCB	POLYCHLORINATED BIPHENYL		
ALT	ALTERNATE	DWG	DRAWING(S)	J-BOX	JUNCTION BOX	PC	PHOTOELECTRIC CELL	UC	UNDER COUNTER
ABP	AMPERE					PED	PEDESTAL	UE	UNDERGROUND ELECTRICAL
APPROP	APPROPRIATELY	EC	ELECTRICAL CONTRACTOR	KV	KILOVOLT	PHMD	PENDANT	UG	UNDERGROUND
ARCH	ARCHITECT, ARCHITECTURAL	EG	EQUIPMENT GROUND	KVA	KILOVOLT AMPERE	PF	POWER FACTOR	UH	UNIT HEATER
AT	ABP TRIP	ELEC	ELECTRIC, ELECTRICAL	KVAR	KILOVOLT AMPERE REACTIVE	PH	PHASE	UL	UNDERWRITERS LABORATORY
ATS	AUTOMATIC TRANSFER SWITCH	ELEV	ELEVATOR	KW	KILOWATT	PIR	PASSIVE INFRARED	UMT	UNDERGROUND TELEPHONE
AUTO	AUTOMATIC	EM	EMERGENCY	KWH	KILOWATT HOUR	PIV	POST INDICATING VALVE	UTP	UNSHIELDED TWISTED PAIR
AUX	AUXILIARY	EMI	ELECTROMAGNETIC INTERFERENCE			PNL	PANEL	UTIL	UTILITY
AV	AUDIO VISUAL	ENR	ENERGY MANAGEMENT SYSTEM	LED	LIGHT-EMITTING DIODE	PUE	POWER-OVER-ETHERNET	UV	UNIT VENTILATOR OR
AWG	AMERICAN WIRE GAUGE	EPMS	ELECTRICAL METALLIC TUBING	LF	LINEAR FEET/FOOT	PR	PAIR		ULTRAVIOLET
		EPO	EMERGENCY POWER OFF	LH	LUMEN	PRI	PRIMARY		
BAS	BUILDING AUTOMATION SYSTEM	EQUIP	EQUIPMENT	LFS	LIGHTWEIGHT FLEX STEEL	PROH	PROHIBITION	V	VOLT
BATT	BATTERY	ERCSP	ELEVATOR RECALL CONTROL AND	LKN	LOCKED ROTOR AMPS	PRV	POWER ROOF VENTILATOR	VA	VOLT-AMPERES
BC	BARE COPPER		SUPERVISORY PANEL	LT	LIGHT	PT	POTENTIAL TRANSFORMER	VERT	VERTICAL
BD	BOARD	EXMT	EXEMPT	LTG	LIGHTING	PVC	POLYVINYL CHLORIDE	VFD	VARIABLE FREQUENCY DRIVE
BFF	BELOW FINISHED FLOOR	EWC	ELECTRIC WATER COOLER	LTWD	LIGHTWEIGHT		CONDUIT	VOL	VOLUME
BLDG	BUILDING	EWH	ELECTRIC WALL HEATER	LV	LOW VOLTAGE				
BMS	BUILDING MANAGEMENT	EX	ELECTRIC WATER HEATER			PWR	POWER	W	WATT
	SYSTEM		EXISTING	MATV	MASTER ANTENNA TELEVISION	QTY	QUANTITY	WH	WATT
BYP	BYPASS	EXP	EXPLOSION PROOF		SYSTEM			WH	WATER HEATER
				MAX	MAXIMUM	RCP	REFLECTED CEILING PLAN	WO	WITHOUT
C	CONDUIT	FA	FIRE ALARM	MC	MECHANICAL CONTRACTOR	RCPT, REC	RECEPTACLE	WP	WEATHERPROOF
CAB	CABINET	FAAP	FIRE ALARM ANNUNCIATOR PANEL		METAL CLAD (CONDUIT)	RDCD	RECESSED		
CALC	CALCULATED	FACP	FIRE ALARM CONTROL PANEL	MCA	MINIMUM CIRCUIT AMPACITY	RGS	RIGID GALVANIZED STEEL	XFMR	TRANSFORMER
CAP	CAPACITY	FC	FOOTCANDLE	MCB	MAIN CIRCUIT BREAKER	RM	ROOM	XFR	TRANSFER
CAT	CATALOG CATEGORY	FCU	FAN COIL UNIT	MCC	MOTOR CONTROL CENTER	RMS	ROOT MEAN SQUARE		
CATV	COMMUNITY ANTENNA TELEVISION	FIXT	FIXTURE	MDP	MAIN DISTRIBUTION PANEL	RTU	ROOF TOP UNIT		
CB	CIRCUIT BREAKER	FLR	FLOOR	MECH	MECHANICAL				
CCT	CONTROL CONDUCTOR	FLUOR	FLUORESCENT	MFR	MANUFACTURER	SC	SURFACE CONDUIT		
CCTV	CLOSED-CIRCUIT TELEVISION	FU	FUSE	MFS	MAIN FUSED DISCONNECT	SCC	SECONDARY		
CD	CANDELA	FUSE	FUSED SAFETY DISCONNECT		SWITCH	SF	SQUARE FEET/FOOT		
CD	CONTRACTOR DOCUMENTS		SWITCH	MH	MANHOLE	SHT	SHEET		
CF	CONTRACTOR-FURNISHED	FWB	FULL VOLTAGE REVERSING	MIC	MICROPHONE	SIG	SIGNALING LINE CIRCUIT		
CKT	CIRCUIT	FWNR	FULL VOLTAGE NONREVERSING	MIN	MINIMUM	SI	INTERNATIONAL SYSTEM OF UNITS		
CLG	CEILING			MISC	MISCELLANEOUS	SNR	SIGNAL/NR		
COAX	COAXIAL CABLE	GAL	GALLON	MLDW	MEMPHIS LIGHT, GAS, AND WATER	SVA	SOLID VENTILATING		
CO/MH	COMMUNICATION	GALV	GALVANIZED	MLO	MAIN LUGS ONLY	SPEC	SPECIFICATION		
COMM	COMMUNICATION	GC	GENERAL CONTRACTOR	MLSA	MULTI-STATE ASSEMBLY	SPKR	SPEAKER		
CONST	CONSTRUCTION	GEN	GENERATOR	MMS	MOTOR-RATED SWITCH	SP	SPARE		
CONT	CONTACTOR OR	GFI	GROUND FAULT CIRCUIT	MOD	MAIN SWITCHBOARD	SS	STAINLESS HACKSAW		
	CONTROLLER		INTERRUPTER	MT	MOUNT	SS	STAINLESS STEEL		
				MTS	MANUAL TRANSFER SWITCH	SSW	SELECTOR SWITCH		
				MTR	MOTOR, MOTORIZED	SSI	SSI/SPDT/MAY POWER/STORAGE		
						STD	STANDARD		

ELECTRICAL SYMBOL LEGEND

SYMBOL	HEIGHT	DESCRIPTION
	18"	120V DUPLEX RECEPTACLE
	18"	120V DUPLEX RECEPTACLE EMERGENCY
	18"	120V QUADRUPLEX RECEPTACLE
	18"	120V QUADRUPLEX RECEPTACLE EMERGENCY
		RECEPTACLE MODIFIERS: GR: GROUND FAULT CURRENT INTERRUPTER WP: WEATHERPROOF ENCLOSURE
		JUNCTION BOX, PURPOSE AS NOTED
	72" TOP MAX	DISCONNECT SWITCH NON-FUSED
	72" TOP MAX	DISCONNECT SWITCH FUSED
	18"	DATA/TELCO OUTLET
	18"	DATA OUTLET
	48"	TELCO OUTLET
$	48"	SINGLE POLE WALL SWITCH
		SWITCH MODIFIERS: M: MOTION RATED OC: OCCUPANCY SENSOR, DUAL TECHNOLOGY T: ELECTRONIC TIMER VO: VACANCY SENSOR, DUAL TECHNOLOGY 3: 3-WAY SWITCH 4: 4-WAY SWITCH
		PHOTOCELL
	48"	CARD READER
	48"	CARD READER WITH KEYPAD
		ELECTRONIC LOCKING MECHANISM
		DOOR CONTACT
		REQUEST FOR EXIT SENSOR
		CCTV DOME CAMERA
		CCTV CAMERA MODIFIERS: F: FIXED PTZ: PAN/TILT/ZOOM
	48"	PUSH PLATE/DOOR SWITCH
		AUTOMATIC DOOR OPERATOR
		EMERGENCY BLUE LIGHT PHONE
		HEAT DETECTOR
		PANEL - 480Y
		PANEL - 208Y
		PANEL - SPECIAL
		SPECIAL PANELS: ERCSP: ELEVATOR RECALL CONTROL AND SUPERVISORY PANEL FACP: FIRE ALARM CONTROL PANEL PACS: PHYSICAL ACCESS CONTROL SYSTEM TCP: TEMPERATURE CONTROL PANEL

ALL HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
TOP: HEIGHT TO TOP OF DEVICE
ANY HEIGHTS INDICATED IN PLANS SHALL SUPERCEDE THOSE LISTED HERE.

GENERAL NOTES

1. ALL ELECTRICAL DEVICES, FIXTURES, EQUIPMENT AND FEEDERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, THE MANUFACTURER'S RECOMMENDED PROCEDURES, ALL APPLICABLE LOCAL AND STATE CODES, AMERICAN DISABILITIES ACT AND WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND VA STANDARDS.
2. PROVIDE ADDITIONAL SUPPORT FOR DEVICES, FIXTURES, EQUIPMENT AND FEEDERS WHERE THE BUILDING CONSTRUCTION IS NOT SUITABLE FOR DIRECT MOUNTING.
3. FIRESTOP, DRAFTSTOP, SMOKESTOP AND/OR PROTECT THE ANNULAR SPACE AROUND ALL PENETRATIONS THROUGH WALLS, PARTITIONS, FLOORS, CEILING, AND ROOFS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, UL LISTING REQUIREMENT AND THE APPLICABLE BUILDING CODES.
4. VERIFY CEILING SYSTEMS AND PROVIDE MOUNTING ACCESSORIES, TRIMS AND ALL REQUIRED MOUNTING HARDWARE TO SUIT THE PARTICULAR INSTALLATION.
5. PROTECT EXISTING UNDERGROUND AND BUILDING INTERIOR UTILITIES DURING CONSTRUCTION.
6. BRANCH CIRCUIT CONDUCTORS SHALL BE 12 AWG COPPER MINIMUM.
7. COORDINATE ANY AND ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
8. ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE.
9. MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES, TO INDICATE A QUALITY STANDARD AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL AND APPROVED BY THE DESIGNER WILL BE ACCEPTED. ALL PRODUCTS MUST COMPLY WITH "BUY AMERICAN ACT".
10. ALL FEEDERS AND CIRCUITRY SHALL BE TORQUED PER THE PANEL, BREAKER, AND/OR PARTICULAR EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
11. CIRCUITRY TO SWITCHES, RECEPTACLES, AND ALL OTHER DEVICES SHALL BE TERMINATED ON THE DEVICE'S SCREW TERMINALS.
12. MOUNTING HEIGHTS INDICATED ARE TO CENTER OF DEVICE, OUTLET, FIXTURE, OR EQUIPMENT UNLESS NOTED OTHERWISE.
13. ALL WIRE TERMINATIONS SHALL BE RATED FOR 75 DEGREES C.
14. ALL CONDUCTORS SHALL HAVE THHN/THWN INSULATION, UNLESS OTHERWISE NOTED.
15. ALL CONDUIT SHALL BE RGS OR EMT UNLESS OTHERWISE NOTED. USE LFMC ON VIBRATING EQUIPMENT. USE PVC FOR UNDERGROUND ONLY OR CONCRETE-ENCASED. UNDERGROUND BRANCH CIRCUITS MAY BE DIRECT-BURIED PVC. UNDERGROUND FEEDERS SHALL BE CONCRETE-ENCASED.
16. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL-LISTED BY AN APPROVED THIRD PARTY TESTING AGENCY.
17. NO CONDUIT SHALL BE ROUTED BELOW THE LEVEL OF THE DOUBLE-TEE CONSTRUCTION. ALL CONDUITS ROUTED THROUGH DOUBLE-TEES SHALL BE THROUGH THE SPACE PROVIDED FOR CONDUIT ROUTING. COORDINATE KNOCKOUT SIZE AND LOCATION WITH PRECAST PROVIDER.
18. IN CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DOCUMENTS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.
19. IF FIBER IS USED TO REPLACE 4PR DUE TO DISTANCE LIMITATIONS, FIBER SHALL BE INSTALLED INNERDUCT.
20. APPLY FOR NEW GARAGE SERVICE ON BEHALF OF THE OWNER WITH MEMPHIS LIGHT, GAS, AND WATER (MLGW). COORDINATE ALL WORK WITH MLGW AND THE OWNER. COMPLY WITH ALL MLGW REQUIREMENTS FOR NEW INSTALLATIONS.
21. COORDINATE EXACT LOCATION OF ALL ELEVATOR-RELATED EQUIPMENT AND DEVICES WITH THE ELEVATOR INSTALLER.
22. DO NOT INSTALL CONDUIT ON THE EXTERIOR SURFACE OF THE STRUCTURE. WHERE FIXTURES OR DEVICES ARE SHOWN TO BE ON THE EXTERIOR OF THE STRUCTURE, PROVIDE A JUNCTION BOX ON THE BACK SIDE OF THE SPANDREL AND ROUTE CONDUCTORS DIRECTLY THROUGH SPANDREL.
23. UNO, ALL 20 A BRANCH CIRCUIT WIRING SHALL BE #12 AWG, 12 A[illegible]M C.
24. COORDINATE ALL SPECIFIC DEVICE LOCATIONS WITH OTHER TRADES INCLUDING MOUNTED SIGNAGE.
25. COORDINATE EXACT CAMERA ANGLES WITH THE VA

LIGHT FIXTURE SCHEDULE

SYMBOL	LABEL	TYPE OF LAMP	DRIVER	LUMENS	WATTS/ FIXTURE	VOLTAGE	DESCRIPTION	BASIS OF DESIGN FIXTURE (SEE NOTE 5)
	A	40 LEDs 4000K 70 CRI	MULTI-LEVEL 350mA DRIVER	6406	46 (HIGH) 17 (LOW)	277	12" SQUARE PENDANT MOUNT LED PARKING STRUCTURE LUMINAIRE; TYPE V SHORT DISTRIBUTION, WITH INTEGRAL PIR OCCUPANCY SENSOR, AMBIENT LIGHT SENSOR AND FIELD ADJUSTABLE MULTI-LEVEL OPTION (DIMS TO 250mA HIGH LEVEL AND 125mA LOW LEVEL); BLACK, MOUNT SUCH THAT BOTTOM OF FIXTURE IS 9' ABOVE BOTTOM OF DOUBLE TEE, CENTERED BETWEEN RIBS UNLESS TO AVOID SEAMS.	CREE MODEL # PKD-304-55-PD-A4-E-UL-BK-700-ML-40K ML HIGH 916lm/4' FULL POWER ML LOW 126lm/4' POSITION COORDINATED ML OPTION OR APPROVED EQUAL
	B	LED 4000K 80 CRI	ELEC. DRIVER	3,251	28	277	4' LINEAR, LENSED, WALL OR CEILING SURFACE MOUNT LED, WITH OCCUPANCY SENSOR AND AMBIENT LIGHT SENSOR. DIMS TO 10% WHEN UNOCCUPIED.	LITHONIA MODEL # CLX-L48-4000LM-SEC-MVOLT-GZ1-DIM10 OR APPROVED EQUAL
	C	LED 4000K 80 CRI	ELEC. DRIVER	6,643	64	MVOLT	4' ROUGH-SURFACE WAND-RESISTANT LINEAR LED WITH CLEAR POLYCARBONATE LENS; MEDIUM DISTRIBUTION; INSTALLED SUCH THAT IT IS FLUSH WITH BOTTOM OF DOUBLE-TEE	LITHONIA # WRAP-48IN-4000LM-MVOLT-GZ1-LP835 OR APPROVED EQUAL
	EB	LED	--	--	5	277	SURFACE MOUNT EMERGENCY DOUBLE HEAD EMERGENCY LIGHT FIXTURE WITH 90-MINUTE BATTERY BACKUP. SUITABLE FOR DAMP LOCATIONS.	LITHONIA MODEL # OR APPROVED EQUAL
	EXA	LED	--	--	2.7	277	SINGLE-FACED EMERGENCY EXIT SIGN WITH RED LETTERS AND INDICATIVE ARROWS. PROVIDE FACE, CEILING OR SURFACE MOUNTING AS REQUIRED FOR INSTALLATION SUCH THAT THE ENTIRE FACE IS VISIBLE FROM THE DOUBLE TEE.	LITHONIA MODEL # 1ALTE-6-RY-1-R OR APPROVED EQUAL
	G	LED 4000K 80 CRI	ELEC. DRIVER	4,000	42	277	4' LINEAR, ENCLOSED AND GASKETED FOR USE IN EXTREME ENVIRONMENTS; LENS IT WITH PRESPRAYED ACRYLIC SHIELDING; WET LOCATION LISTED.	COLUMBIA MODEL # LXE844-40LW-RPA-EU OR APPROVED EQUAL
	PP1	120 LEDs 4000K 70 CRI	ONE 525mA DRIVER	17,710	202	277	TWO-HEAD, RECTANGULAR LED, POLE-MOUNTED EXTERIOR AREA LUMINAIRE WITH 25' POLE, BLACK BODY, BLACK POLE. SUITABLE FOR WET LOCATIONS. TYPE IV MEDIUM DISTRIBUTION WITH BACKLIGHT SHIELD. EACH HEAD SHALL HAVE INTEGRAL PHOTOCELL TO SWITCH FIXTURES BETWEEN FULL POWER AT NIGHT AND OFF DURING DAY. PROVIDE FOR POLE-MOUNTED SECURITY CAMERAS. COORDINATE WITH PRECAST MANUFACTURER FOR POLE BASE.	CREE MODEL # ARE-EDG-48-LO4-12-E-UL-BK-525-P-40K OR APPROVED EQUAL
	PP2	120 LED 4000K 70 CRI	TWO 525mA DRIVERS	17,710 (PER HEAD)	202	277	TWO-HEAD, RECTANGULAR LED, POLE-MOUNTED EXTERIOR AREA LUMINAIRE WITH 25' POLE. BLACK BODY, BLACK POLE. SUITABLE FOR WET LOCATIONS. TYPE IV MEDIUM DISTRIBUTION. EACH HEAD SHALL HAVE INTEGRAL PHOTOCELL TO SWITCH FIXTURES BETWEEN FULL POWER AT NIGHT AND OFF DURING DAY. PROVIDE FOR POLE-MOUNTED SECURITY CAMERAS. COORDINATE WITH PRECAST MANUFACTURER FOR POLE BASE.	CREE MODEL # ARE-EDG-48-LO4-12-E-UL-BK-525-P-40K OR APPROVED EQUAL
	PP3	120 LED 4000K 70 CRI	THREE ELEC. DRIVERS	17,710 (PER HEAD)	605	277	THREE-HEAD, RECTANGULAR, LED, POLE-MOUNTED EXTERIOR AREA LUMINAIRE WITH 25' POLE. SUITABLE FOR WET LOCATIONS. TYPE IV MEDIUM DISTRIBUTION. EACH HEAD SHALL HAVE INTEGRAL PHOTOCELL TO SWITCH FIXTURES BETWEEN FULL POWER AT NIGHT AND OFF DURING DAY. BLACK FINISH. PROVIDE FOR POLE MOUNTED SECURITY CAMERAS. COORDINATE WITH PRECAST MANUFACTURER FOR POLE BASE.	CREE MODEL # ARE-EDG-48A-O4-12-E-UL-BK-525-P-40K OR APPROVED EQUAL
	S	LED 4100K	ELEC. DRIVER	1200	14	MVOLT	7' LED IN-GRADE LUMINAIRE DESIGNED FOR ARCHITECTURAL UPLIGHTING. NARROW SPOT OPTICS. STAINLESS STEEL FINISH, WITH FLAT, FROSTED, SLIP-RESISTANT LENS. CAST FLUSH IN CONCRETE SIDEWALK.	HYDREL MODEL # PDXT SS 1LED 4K FA41K MVOLT NSP FLCSR OR APPROVED EQUAL
	T	LED 4000K	ELEC. DRIVER	681	8.5	MVOLT	LED BOLLARD LIGHT. SQUARE WITH FIXED DOWNLIGHT HEAD. 36" TALL. TYPE 2 DISTRIBUTION, WITH ECOBE LIT GLASS LENS. BLACK FINISH. SYMBOL ARROW INDICATES OPTICS AIMING.	EATON/COOPER LUMIERE MODEL # 303-B1-LED01-4000-UNV-T2-BK-36-EDGE
	W	LED 4000K 70 CRI	ELEC. DRIVER	3,861	47	277	EXTERIOR WALL MOUNTED LED LUMINAIRE WITH TWO (2) ELECTRONIC DRIVERS AND TYPE IV DISTRIBUTION, SUITABLE FOR WET LOCATIONS. INTEGRAL PHOTOCELL FOR DUSK-TO-DAWN OPERATION. BLACK FINISH	LITHONIA MODEL # WDT LED-2-16A7000K-SR4-MVOLT-PE-DBLXD OR APPROVED EQUAL

NOTES:
1. EM - EMERGENCY LIGHT (CIRCUITED FROM EMERGENCY POWER).
   EM NL - UN-SWITCHED NIGHT LIGHT (CIRCUITED FROM EMERGENCY POWER).
2. VERIFY ALL LIGHT FIXTURE MOUNTING TYPES AND COLORS WITH ARCHITECT.
3. MANUFACTURER'S NAME AND MODEL NUMBER ARE GIVEN FOR DESCRIPTIVE PURPOSES, TO INDICATE A QUALITY AND PERFORMANCE STANDARD, AND ARE NOT INTENDED TO LIMIT PRODUCTS TO A PARTICULAR MANUFACTURER. PRODUCTS DEEMED EQUAL AND APPROVED BY THE DESIGNER WILL BE ACCEPTED.
4. FOR ALL LED FIXTURES, THE FIXTURE SHALL BE CAPABLE OF SELF-RESETTING TO THE SWITCHED/CONTROLLED STATE DURING ANY FLUCTUATION IN POWER SUPPLY WHERE AUTOMATIC PROTECTIVE MEASURES DISABLE THE LED LAMPS. PROVIDE A LETTER OR STATEMENT FROM THE MANUFACTURER, OR OTHER ACCEPTABLE PROOF, THAT ALL LED FIXTURES WITH OR WITHOUT PROVIDE THIS FEATURE, WILL RETURN TO THE SWITCHED/CONTROLLED STATE AUTOMATICALLY. PROVIDE STATEMENT WITH THE FIXTURE SUBMITTALS.
5. UNO, WHERE FIXTURES ARE INSTALLED IN DOUBLE-T CONSTRUCTION, FIXTURE SHALL BE SUSPENDED 2' ABOVE BOTTOM OF Tt. WHERE FIXTURE IS INSTALLED PERPENDICULAR TO Tt, FIXTURE SHALL BE MOUNTED BELOW AND FLUSH WITH Tt.
6. IF OTHER THAN BASIS-OF-DESIGN FIXTURES ARE TO BE SUBMITTED, REQUEST BASIS-OF-DESIGN PHOTOMETRIC CALCULATIONS FROM THE ENGINEER. PROVIDE PHOTOMETRIC CALCULATIONS BASED ON SUBMITTED FIXTURES FOR REVIEW AND APPROVAL. SUBMITTED FIXTURES SHALL PROVIDE SIMILAR ILLUMINATION AND OPERATING CHARACTERISTICS AS THE BASIS-OF-DESIGN FIXTURES.

LIGHTNING PROTECTION SYSTEM:

PROVIDE A U.L. MASTER LABEL LIGHTNING PROTECTION SYSTEM WHICH COMPLIES WITH CURRENT NATIONALLY RECOGNIZED CODES AND STANDARDS. SYSTEM SHALL CONSIST OF AIR TERMINALS (LIGHTNING RODS) SPACED AT 20 FEET ON CENTER ALONG THE PERIMETER, WITHIN 2 FEET OF EACH CORNER CONNECTED TO HEAVY CABLES EXTENDED TO GROUNDING RODS MINIMUM 10 FEET IN DEPTH. INSTALL TRANSIENT SURGE SUPPRESSORS AT ELECTRICAL AND TELEPHONE SERVICE ENTRIES. BOND LIGHTNING PROTECTION SYSTEM TO BUILDING GROUNDING ELECTRODE SYSTEM. ALL WORK TO COMPLY WITH U.L. STANDARD 780 AND NATIONAL ELECTRICAL CODE, CURRENT EDITION.

LIGHTING CONTROL NOTES

1. PROGRAM TYPE 'A' FIXTURES TO PROVIDE 1 FC WHEN UNOCCUPIED. WHEN OCCUPANCY IS DETECTED, FIXTURE SHALL PROVIDE 5 FC.
2. PROGRAM TYPE 'A' FIXTURES WITHIN 70' OF ANY ENTRANCE, INCLUDING TOP LEVEL ENTRANCE (TRANSITIONING FROM UNCOVERED TO COVERED) TO TURN OFF WHEN PHOTOCELL DETECTS 50 FC. ALL OTHER TYPE 'A' FIXTURES SHALL BE SET TO TURN OFF WHEN 10 FC IS DETECTED.
3. PROGRAM TYPE 'S' FIXTURES TO DIM TO 10% WHEN UNOCCUPIED AND 100% WHEN OCCUPIED.
4. PROVIDE TYPE 'PP' FIXTURES WITH INTEGRAL PHOTOCELLS SET FOR TYPICAL DUSK-TO-DAWN OPERATION.
5. CIRCUIT TYPE 'S' AND 'T' FIXTURES THROUGH THE PHOTOCELL-CONTROLLED LIGHTING CONTACTOR SET FOR TYPICAL DUSK-TO-DAWN OPERATION.
6. ADJUST ALL LIGHTING CONTROLS IN THE FIELD AS REQUIRED OR AS DIRECTED BY THE OWNER OR THE ENGINEER.

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Revisions:	Date

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BID SET

Drawing Title: ELECTRICAL NOTES, LEGENDS, AND LIGHT FIXTURE SCHEDULE	Project Title: CONSTRUCT PARKING GARAGE ON WEST LOT	Project Number: 15-412 / Building Number:	OFFICE OF FACILITIES MANAGEMENT
Approved for Design Concept: FACILITY MANAGEMENT DIVISION MANAGER	Location: MEMPHIS, TN	Drawing Number: EE001	VA Project Number: 614-319
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