

Exhibit 3.15

ELECTRICAL SHEET INDEX	
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E1.01	SITE PHOTOMETRIC PLAN - PHASE 1
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DEMOLITION NOTES

- THE EXISTING CONDITIONS SHOWN WERE TAKEN FROM AVAILABLE RECORD INFORMATION. FIELD VERIFY ALL CONDITIONS THAT MAY AFFECT CONSTRUCTION. IF ANY DISCREPANCIES ARE DISCOVERED, NOTIFY THE ENGINEER IN WRITING AND REQUEST DIRECTION PRIOR TO COMMENCING WORK.
- EXISTING LIGHT FIXTURES SHALL BE CAREFULLY REMOVED (DO NOT DAMAGE) AND RETURNED TO THE OWNER.
- ANY AND ALL EQUIPMENT HAVING ELECTRICAL CONNECTIONS THAT REQUIRE DISCONNECTING AND/OR RECONNECTING AS A RESULT OF CONSTRUCTION SHALL BE INCLUDED AS A PART OF THIS CONTRACT.
- THE EXISTING ELECTRICAL DEVICES, CONDUIT, AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION SHALL BE RELOCATED UNLESS OTHERWISE NOTED. LOCATION IS TO BE AS CLOSE AS POSSIBLE TO THE ORIGINAL LOCATION.
- ALL CIRCUITS, CONDUIT AND WIRE THAT ARE NOT TO REMAIN IN SERVICE SHALL BE REMOVED BACK TO THE FIRST ACCESSIBLE JUNCTION BOX WHERE IT SHALL BE TIED OFF AND LABELED AS SPARE WITH CIRCUIT NUMBER INDICATED.
- REMOVE ALL ABANDONED WIRE AND CABLING.

GENERAL NOTES

- SYMBOLS LEGENDS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. THE SYMBOLS REPRESENT THE TYPE OF DEVICES THAT MAY BE REQUIRED IN THE WORK; QUANTITIES AND LOCATIONS ARE AS SHOWN ON THE PLAN SHEETS.
- PROVIDE 3/4" CONDUIT & #12 CONDUCTORS UNLESS NOTED OTHERWISE. PROVIDE ONE NEUTRAL CONDUCTOR FOR EACH UNGROUNDED CONDUCTOR OF SINGLE PHASE LINE-NEUTRAL BRANCH CIRCUITS. DO NOT SHARE NEUTRAL CONDUCTORS.
- EACH FEEDER AND BRANCH CIRCUIT CONDUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NFPA 70, ARTICLE 250.
- ALL ELECTRICAL EQUIPMENT IN PORTIONS OF THE BUILDING NOT BEING REMODELED SHALL BE LEFT IN WORKING CONDITION. RESTORE ANY CIRCUITS INTERRUPTED.
- ALL NEW LIGHT FIXTURES AND FIXTURES IN AREAS ADJACENT DEMOLITION & CONSTRUCTION AREAS ARE TO BE THOROUGHLY CLEANED IMMEDIATELY PRIOR TO NOTICE OF SUBSTANTIAL COMPLETION.
- THE FOLLOWING IS PART OF THIS PROJECT AND ALL COSTS PERTAINING THERETO SHALL BE INCLUDED IN THE BASE BID:
 - NEW ELECTRICAL EQUIPMENT AND APPARATUS SHALL BE COORDINATED AND CONNECTED INTO THE EXISTING SYSTEM AS REQUIRED.
 - POWER WIRING AND CABLE INSTALLATIONS SHALL BE CONCEALED ABOVE ACCESSIBLE CEILINGS AND IN WALLS. EXPOSED WIRING SHALL BE INSTALLED IN APPROVED SURFACE METAL RACEWAY WHERE INDICATED.
 - WHERE EXISTING CONDUITS ARE INDICATED FOR REUSE, FIELD VERIFY INTEGRITY OF REUSED RACEWAYS PRIOR TO INSTALLATION OF CONDUCTORS. PROVIDE NEW RACEWAYS WHERE EXISTING ARE UNUSABLE.
 - LOCATIONS OF ALL WALL MOUNTED DEVICES SUCH AS SWITCHES, RECEPTACLES, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. DETERMINE EXACT DEVICE LOCATIONS IN FIELD; COORDINATE INSTALLATIONS WITH FIXED CASEWORK, DOORS AND RELITES.
 - PROVIDE PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS AS REQUIRED. PROVIDE SUITABLE FIRE RATED MATERIALS AND SEAL ALL CEILING, FLOOR, AND WALL PENETRATIONS TO MATCH FIRE RATING OF SURFACES PENETRATED.

LIGHTING AND RECEPTACLE NOTES

- LIGHTING SYSTEMS SHALL BE PROVIDED WITH CONTROLS AS ZONED ON THE LIGHTING PLANS. SWITCHING AND DIMMING ZONES ARE INDICATED ADJACENT TO EACH FIXTURE.
 - EMERGENCY EGRESS LIGHTING CONTROLLED BY OCCUPANCY SENSORS.
 - LIGHTING IN SPACES CONTROLLED BY OCCUPANCY SENSORS.
- LUMINAIRES PROVIDING MEANS OF EGRESS ILLUMINATION AND HAVING BOTH NORMAL AND EMERGENCY POWER SOURCES SHALL BE CONTROLLED BY A COMBINATION OF U.L. 924 LISTED EMERGENCY RELAYS AND OCCUPANCY SENSORS THAT ENABLES THE LIGHTING TO BE SHUT OFF WHEN THE AREAS SERVED ARE UNOCCUPIED AND AUTOMATICALLY ILLUMINATES IN THE EVENT OF NORMAL POWER SOURCE FAILURE.
- THE MAXIMUM LIGHTING POWER THAT MAY BE CONTROLLED FROM A SINGLE SWITCH OR AUTOMATIC CONTROL SHALL NOT EXCEED THAT WHICH IS PROVIDED BY A 20 AMPERE CIRCUIT LOADED TO NOT MORE THAN 80 PERCENT.
 - EMERGENCY EGRESS LIGHTING CONTROLLED BY OCCUPANCY SENSORS.
 - LIGHTING IN SPACES CONTROLLED BY OCCUPANCY SENSORS.
- PROVIDE FUNCTIONAL TESTING OF AUTOMATIC LIGHTING CONTROLS. SUBMIT WRITTEN PROCEDURES FOR FUNCTIONAL TESTING OF ALL AUTOMATIC CONTROLS WITH DESCRIPTION OF THE EXPECTED SYSTEM RESPONSE.

STRUCTURED CABLE SYSTEM PATHWAY NOTES

- SYSTEM CABLING PATHWAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF TIA-569.
- CABLE SUPPORTS SHALL NOT BE PLACED MORE THAN 5' APART.
- CABLE "SAG" BETWEEN SUPPORTS SHALL NOT EXCEED 12".
- CABLE LENGTHS SHALL NOT EXCEED 295', INCLUDING PATCH CORD LENGTHS AT COMM ROOMS AND WORKSTATIONS; IF A CABLE LENGTH WILL EXCEED 295', INFORM THE ICT ENGINEER IMMEDIATELY BEFORE INSTALLATION.
- CABLE MINIMUM BEND RADIUS AND MAXIMUM PULLING TENSION SHALL NOT BE EXCEED. REFER TO MANUFACTURER'S REQUIREMENTS AND REFERENCE DOCUMENTS.
- CABLES SHALL BE INSTALLED IN CONTINUOUS LENGTHS FROM ORIGIN TO DESTINATION (NO SPLICES).
- CABLES SHALL BE INSTALLED ABOVE FIRE-SPRINKLER SYSTEMS AND SUPPORTED INDEPENDENTLY OF SPRINKLER PIPING OR ANY ANCILLARY EQUIPMENT OR HARDWARE. THE CABLE SYSTEM AND SUPPORT HARDWARE SHALL BE INSTALLED SO THAT IT DOES NOT OBSCURE ANY VALVES, FIRE ALARM CONDUIT, BOXES, OR OTHER CONTROLLED DEVICES.
- CABLES SHALL NOT BE ATTACHED TO CEILING GRID OR LIGHTING FIXTURE WIRES.
- AT NO POINT SHALL CABLES REST ON ACOUSTIC CEILING GRIDS OR PANELS, OR BE ATTACHED TO ANY PORTION OF THE BUILDING MECHANICAL OR PIPING SYSTEMS. PROVIDE COMPLETE CABLE SUPPORT PATHWAYS CONSISTING OF CONDUIT, RACEWAY, LADDER RACK, CABLE TRAY, J-HOOKS OR BRIDAL RINGS.
- ANY CABLE DAMAGED DURING INSTALLATION OR EXCEEDING RECOMMENDED INSTALLATION PARAMETERS SHALL BE REPLACED PRIOR TO FINAL ACCEPTANCE AT NO ADDITIONAL COST TO THE OWNER.
- CABLES AND PATHWAYS SHALL BE CLEARLY LABELED IN ACCORDANCE WITH TIA-606-C.
- PROVIDE "VELCRO" TYPE (HOOK AND LOOP) TIE WRAPS FOR BUNDLING / MANAGING HORIZONTAL AND BACKBONE CABLING. PLACE EVERY 5' FOR CABLE RUNS IN CEILING AND EVERY 18" AFTER ENTERING TELECOMMUNICATIONS ROOM. PLASTIC "ZIP-TIES" SHALL NOT BE PERMITTED WITHIN THE STRUCTURED CABLING SYSTEM.
- HORIZONTAL UTP PAIR UNTWIST AT THE TERMINATION SHALL NOT EXCEED 0.5".
- PROVIDE (1) 2" CONDUIT SLEEVE WITH INSULATED BUSHINGS FOR PENETRATION INTO OFFICES, EXAM ROOMS, ETC, AS REQUIRED TO FACILITATE CABLE ROUTING WHETHER SHOWN ON DRAWINGS OR NOT.
- ALL PENETRATIONS MUST BE FIRE-STOPPED IN ACCORDANCE OF THE NFPA, NEC AND TO THE SATISFACTION OF THE AHJ.
- ALL TELECOMMUNICATION ROOMS AND PATHWAYS SHALL ADHERE TO TIA-606-D.
- ALL TELECOMMUNICATION BONDING AND GROUNDING SHALL ADHERE TO TIA-607-D.
- NOT ALL PARTS SHOWN. ENSURE A COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS INSTALLATION MATERIALS, CONNECTORS, CONSUMABLES, AND APPURTENANCES.
- PROVIDE NETWORK/TELEPHONY CABLES TO THE FOLLOWING LOCATIONS FROM THE NEAREST COMMUNICATIONS ROOM, UNLESS OTHERWISE NOTED:
 - ELEVATOR CONTROL PANELS/ENCLOSURES
 - BUILDING SYSTEM MANAGEMENT PANELS/ENCLOSURES
 - ENERGY SYSTEM MANAGEMENT PANELS/ENCLOSURES
 - FIRE ALARM CONTROL SYSTEM PANELS/ENCLOSURES
 - ACCESS CONTROL SYSTEM PANELS/ENCLOSURES
 - TWO-WAY EMERGENCY COMMUNICATIONS SYSTEMS PANELS/ENCLOSURES

ABBREVIATIONS

@	AT	MAG	MAGNETIC
A/C	AIR CONDITIONING(ER)	MAN	MANUAL
A (AMP)	AMPERE	MAT	MATERIAL
AC	ABOVE COUNTER, ALTERNATING CURRENT	MAX	MAXIMUM
ADJ	ADJUSTABLE	MCA	MINIMUM CIRCUIT AMPACITY
ADJIT	ADJACENT	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AHJ	AUTHORITY HAVING JURISDICTION	MEZZ	MEZZANINE
AIC	AMPERE INTERRUPTING CAPACITY	MG	MOTOR GENERATOR
ALT	ALTERNATE	MIN	MINIMUM
ANN	ANNUNCIATOR	MISC	MISCELLANEOUS
ARCH	ARCHITECT, ARCHITECTURAL	ML/O	MAIN LUG ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MOC	MAXIMUM OVERCURRENT PROTECTION
AUTO	AUTOMATIC	MS	MAGNETIC STARTER
AUX	AUXILIARY	MTD	MOUNTED
AWG	AMERICAN WIRE GAUGE	MTO	MOUNTING
		MTR	MOTOR
BKBD	BACKBOARD	N	NORTH, NEUTRAL
BKR	BREAKER	N/A	NOT APPLICABLE
BLDG	BUILDING	NC	NORMALLY CLOSED
		NEC	NATIONAL ELECTRICAL CODE
C	CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CAP	CAPACITY		NATIONAL ELECTRICAL SAFETY CODE
CB	CIRCUIT BREAKER	NEUT	NEUTRAL
CKT	CIRCUIT	NFPA	NATIONAL FIRE PROTECTION ASSOC.
CLG	CEILING	NIC	NOT IN CONTRACT
CLR	CLEAR	NO	NORMALLY OPEN
COL	COLUMN	NTS	NOT TO SCALE
COM	COMMUNICATION		
CPS	CYCLES PER SECOND	OC	ON CENTER
CT	CURRENT TRANSFORMER	OFCI	OWNER FURNISHED CONTRACTOR
CTL	CONTROL	OL	INSTALLED
CU	COPPER	OS	OWNER FURNISHED OWNER
DC	DIRECT CURRENT		INSTALLED OVERLOAD
DISC SW	DISCONNECT SWITCH		OPTIONAL STANDBY
DISC	DISCONNECT	P	PRIMARY
DN	DOWN	PA	PUBLIC ADDRESS
DWG	DRAWING	PAR	PARALLEL
E	EXIST, EAST	PB	PULL BOX
EDH	ELECTRIC DUCT HEATER	PE	PHOTO ELECTRIC
EF	EXHAUST FAN	PF	POWER FACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR	PH	PHASE
EL	ELEVATION	PIV	POST INDICATOR VALVE
ELEC	ELECTRIC(AL)	PNL	PANEL
ELEV	ELEVATOR	POC	POINT OF CONNECTION
EM	EMERGENCY	PWR	POWER
EMT	ELECTRICAL-METALLIC TUBING		
ENCL	ENCLOSURE	QTY	QUANTITY
ENTR	ENTRANCE	R (R)	RELOCATE (D)
EP	EXPLOSION PROOF	RAD	RADIUS
EPO	EMERGENCY POWER OFF EQUIPMENT	RECPT	RECEPTACLE
EQUIP/EOP	EQUIPMENT	REF	REFRIGERATOR
EWIC	ELECTRIC WATER COOLER	RLA	RATED LOAD AMPS
EWV	ELECTRIC WATER HEATER	RPM	REVOLUTIONS PER MINUTE
EXH	EXHAUST	S	SOUTH
EXT	EXTERIOR	SC	SECURITY
EXIST	EXISTING	SD	SMOKE DETECTOR
		SECT	SECTION
F	FAHRENHEIT/FUSE	SF	SUPPLY FAN
FA	FIRE ALARM	SHT	SHEET
FAA	FIRE ALARM ANNUNCIATOR	SPEC	SPECIFICATION
FAP	FIRE ALARM PANEL	SPL	SPECIAL
FC	FOOTCANDLE	SQ	SQUARE
FCU	FAN COIL UNIT	STOR	STORAGE
FD	FIRE DAMPER	SPD	SURGE PROTECTION DEVICE
FDR	FEEDER	SW	SWITCH
FIXT	FIXTURE	SWBD	SWITCHBOARD
FLA	FULL LOAD AMPS	SYM	SYMMETRICAL
FSD	FIRE/SMOKE DAMPER	SYS	SYSTEM
		T	THERMOSTAT
GEC	GROUNDING ELECTRODE CONDUCTOR	TB	TERMINAL BOX
GEN	GENERATOR	TC	TIME CLOCK
GFI	GROUND FAULT CIRCUIT INTERRUPTER	TEL	TELEPHONE
GFR	GROUND FAULT RELAY	TV	TELEVISION
		TYP	TYPICAL
H	HEIGHT	UFC	UNIFORM FIRE CODE
HOA	HAND OFF AUTOMATIC	UG	UNDERGROUND
HOR	HORIZONTAL	UH	UNIT HEATER
HP	HORSEPOWER	UL	UNDERWRITERS LABORATORIES
HR	HOURLY	UON	UNLESS OTHERWISE NOTED
HT	HEIGHT	UV	UNIT VENTILATOR
HW	HOT WATER	V	VOLT
HZ	HERTZ	VAV	VARIABLE AIR VOLUME
		VEL	VELOCITY
IBC	INTERNATIONAL BUILDING CODE	VM	VOLTMETER
IC	INTERCOM	VOL	VOLUME
IES	ILLUMINATING ENGINEERING SOCIETY	W	WATT, WEST
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	W	WITH
IG	ISOLATED GROUND	W/O	WITHOUT
IMC	INTERMEDIATE METAL CONDUIT	WH	WATER HEATER
IN	INCH	WHM	WATTHOUR METER
		WP	WEATHERPROOF
JB	JUNCTION BOX	X	REACTANCE
KCML	THOUSAND CIRCULAR MILLS	XFMR	TRANSFORMER
KVA	KILOVOLT AMPERES	XMTR	TRANSMITTER
KVAR	KILOVOLT AMPERES REACTIVE		
KW	KILOWATT	Z	IMPEDANCE
KWH	KILOWATT HOUR		
LBS	POUNDS		
LF	LINEAR FEET (FEET)		
LRA	LOCKED ROTOR AMPS		
LS	LIFE SAFETY		
LT	LIGHT		
LTG	LIGHTING	&	AND
LV	LOW VOLTAGE	IE.	THAT IS

Well-crafted simplicity.



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GENERAL
NOTES,
ABBREVIATIONS
AND SHEET
INDEX

E0.00

DESIGN REVIEW

SYMBOLS LEGEND - GENERAL	
SYMBOL	DESCRIPTION
	DRAWING CONSTRUCTION ("FLAG") NOTE
	EQUIPMENT IDENTIFIER
	MATCHLINE
	REVISION CLOUD (ENCIRCLES DRAWING CHANGES MADE SINCE THE PREVIOUS RELEASE)
	REVISION REFERENCE
	EXISTING TO BE REMOVED (HATCH)
	HEAVY LINEWEIGHT INDICATES NEW WORK
	LIGHT LINEWEIGHT INDICATES EXISTING INFORMATION
	POINT OF CONNECTION
	DETAIL REFERENCE DETAIL IDENTIFICATION NUMBER SHEET WHERE DETAIL IS DRAWN
	ELEVATION REFERENCE ELEVATION IDENTIFICATION NUMBER SHEET WHERE ELEVATION IS DRAWN
	SECTION REFERENCE SECTION IDENTIFICATION NUMBER SHEET WHERE SECTION IS DRAWN
	NORTH REFERENCE

SYMBOLS LEGEND - POWER	
SYMBOL	DESCRIPTION
	TRANSFORMER
	POLE-MOUNTED TRANSFORMER
	POLE
	DELTA
	WYE
	MEDIUM VOLTAGE CABLE TERMINATOR
	LIGHTNING ARRESTORS
	SURGE ARRESTORS
	NEUTRAL GROUNDING RESISTOR
	METER
	MICROPROCESSOR CONTROLLED MONITOR REFER TO SPECIFICATIONS FOR METERING VALUES AND PROTECTIVE FUNCTIONS
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	INDICATING INSTRUMENT AM-AMMETER; VM-VOLTMETER; FM-FREQUENCY METER; KVAR-KILOVAR METER; KWH-KILOWATT HOUR METER; KWHHD-KILOWATT HOUR DEMAND METER
	INSTRUMENT SWITCH AS-AMMETER SWITCH; VS-VOLTMETER SWITCH; SS-SYNCHRONIZING SWITCH; SV-SUPERVISORY (LOCAL-REMOTE) SWITCH
	SEPARABLE CONNECTOR
	DRAWOUT AC TYPE POWER CIRCUIT BREAKER

SYMBOLS LEGEND - POWER	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER ST - INDICATES SHUNT TRIP
	ENCLOSED CIRCUIT BREAKER (PLAN VIEW) xxxAXP - AMPSPOLLES
	ENCLOSED CIRCUIT BREAKER (ONE-LINE DIAGRAM) xxxAXP - AMPSPOLLES
	BREAKER WITH EXTERNAL GROUND FAULT RELAY AND CT
	CIRCUIT BREAKER WITH INTEGRAL GROUND FAULT PROTECTION
	MOTOR-OPERATED CIRCUIT BREAKER
	SWITCH WITH EXTERNAL GROUND FAULT RELAY AND CT
	MOV SURGE PROTECTION
	RESISTOR
	FUSE
	MOTOR THERMAL OVERLOADS - (3) UNLESS OTHERWISE NOTED
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	SOLENOID VALVE
	MOTOR-OPERATED VALVE
	THERMOSTAT
	TERMINAL BLOCK
	INDICATING LIGHT - TYPE AS NOTED A-AMBER; B-BLUE; G-GREEN; R-RED; W-WHITE
	BATTERY

SYMBOLS LEGEND - POWER	
SYMBOL	DESCRIPTION
	2-POSITION SELECTOR SWITCH
	3-POSITION SELECTOR SWITCH HAND-OFF-AUTOMATIC
	ON-OFF SELECTOR SWITCH
	2-CIRCUIT PUSHBUTTON
	PUSHBUTTON SWITCH MOMENTARY CONTACT
	EQUIPMENT CONNECTION
	GENERATOR
	MOTOR CONNECTION
	SMOKE DAMPER
	FIRE SMOKE DAMPER
	STARTER 3-POLE, NEMA SIZE 1 MINIMUM UNLESS NOTED OTHERWISE
	COMBINATION STARTER HP RATED, 3-POLE, NEMA SIZE 1 MINIMUM, UNLESS NOTED OTHERWISE - OVERCURRENT PROTECTION AS REQUIRED BY EQUIPMENT MANUFACTURER OR AS NOTED
	DISCONNECT SWITCH 3-POLE UNLESS NOTED OTHERWISE
	FUSED DISCONNECT SWITCH 3-POLE UNLESS NOTED OTHERWISE
	CONTACTOR
	RELAY COIL CR-CONTROL RELAY; TD-TIME DELAY RELAY; UV-UNDERVOLTAGE RELAY; M-MOTOR CONTACTOR
	MOTOR-RATED SWITCH - SIZE OL PER MOTOR REQUIREMENTS
	EQUIPMENT EMERGENCY SHUTDOWN SWITCH

SYMBOLS LEGEND - GENERAL	
SYMBOL	DESCRIPTION
	CONDUIT CONCEALED IN CEILING SPACE OR IN WALL. PROVIDE MINIMUM 3/4" WITH #12 AWG CONDUCTORS AND DEDICATED NEUTRAL EACH CIRCUIT UNLESS OTHERWISE NOTED ON PLAN. PROVIDE EQUIPMENT GROUNDING CONDUCTORS SIZED PER NFPA 70.
	FLEXIBLE METAL CONDUIT
	CONDUIT - CONCEALED IN OR UNDER FLOOR
	CONDUIT - ROUTED UNDERGROUND
	LOW-VOLTAGE WIRING (CLASS B)
	CONDUIT OR CABLE VERTICAL DOWN
	CONDUIT OR CABLE VERTICAL UP
	CONDUIT STUB - TERMINATE WITH BUSHING OR CAP IF UNDERGROUND
	BREAK LINE
	CONDUIT SEAL
	EXPANSION FITTING
	CABLE TRAY
	BRANCH CIRCUIT NUMBERS
	PANEL DESIGNATION
	HOME RUN TO SOURCE OF SUPPLY
	CONDUCTORS - CONNECTED
	CONDUCTORS - NOT CONNECTED
	JUNCTION BOX
	PULLBOX - SIZE AS INDICATED OR AS REQUIRED BY CODE
	HANDHOLE
	MANHOLE

SYMBOLS LEGEND - POWER	
SYMBOL	DESCRIPTION
	480Y/277V, 3Ø, 4W PANELBOARD
	208Y/120V, 3Ø, 4W PANELBOARD
	EQUIPMENT CABINET - TYPE AS NOTED
	PANELBOARD
	TRANSFER SWITCH (AUTO)
	AMPERES SHORT CIRCUIT AVAILABLE (SYMMETRICAL)
	FEEDER TAG - REFER TO FEEDER SCHEDULE

SYMBOLS LEGEND - GROUNDING	
SYMBOL	DESCRIPTION
	GROUND CONNECTION
	GROUND ROD
	GROUND WELL
	AIR TERMINAL

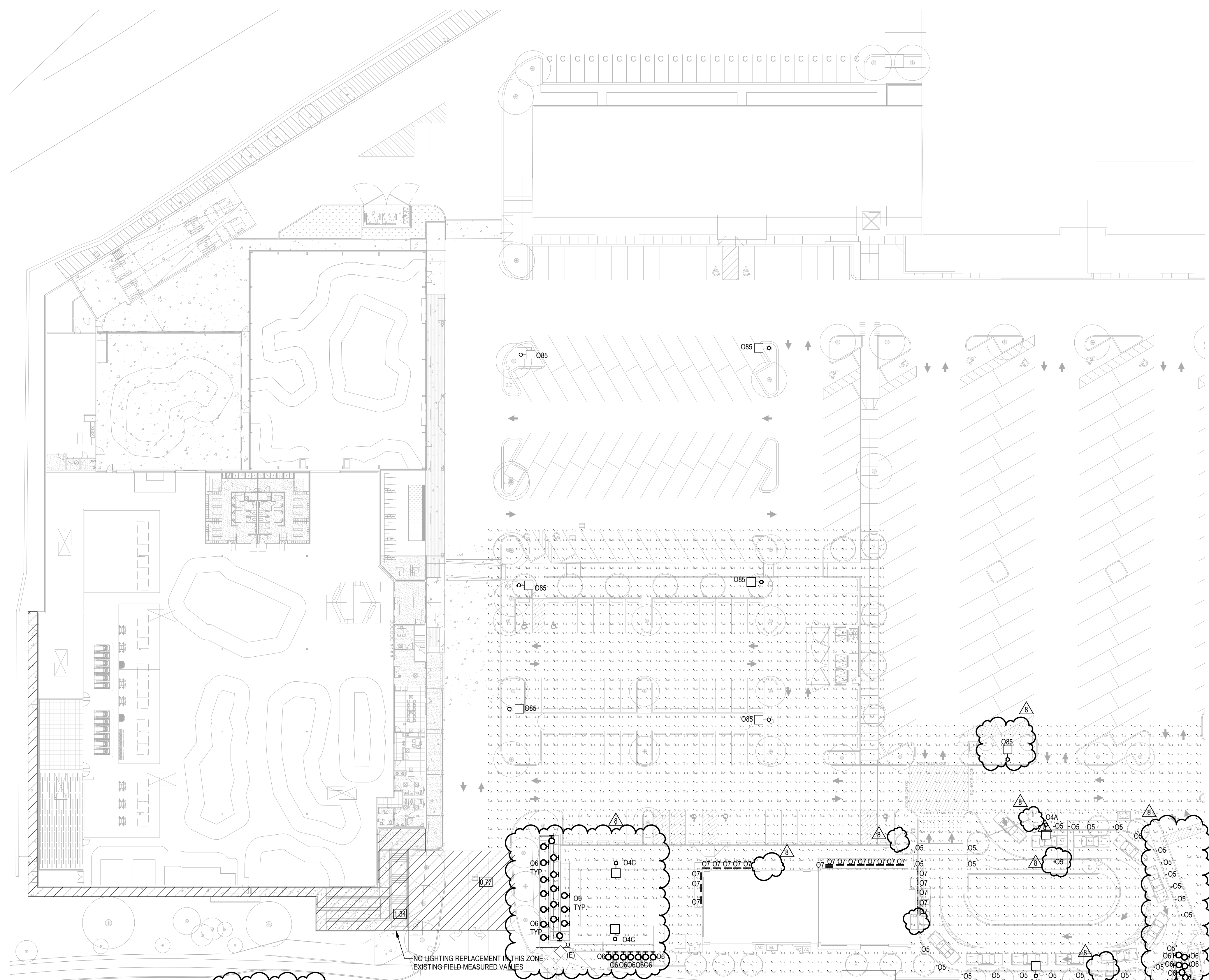
SYMBOLS LEGEND - WIRING DEVICES	
SYMBOL	DESCRIPTION
	SINGLE-POLE WALL SWITCH MOUNT SWITCHES AT 48" AFF. TO TOP, UON.
	WALL SWITCH - SUBSCRIPT 2 = 2-POLE LV = LOW-VOLTAGE 3 = 3-WAY OS = OCCUPANCY SENSOR TYPE 4 = 4-WAY OP = OCCUPANCY/PHOTOELECTRIC TYPE K = KEYPED WP = WEATHERPROOF LOWER CASE LETTER INDICATES SWITCHING GROUP MOUNT SWITCHES AT 48" AFF. TO TOP, UON. ANY COMBINATION OF SWITCH TYPES CAN BE USED (IE. 3K = 3-WAY KEYPED SWITCH)
	SPECIAL PURPOSE RECEPTACLE TYPE AS SHOWN ON PLANS
	SINGLE SERVICE OR COMBINATION FLUSH MOUNTED FLOOR BOX. REFER TO FLOOR PLANS FOR DEVICES.
	SINGLE SERVICE OR COMBINATION FLUSH FLOOR POKE THRU. REFER TO FLOOR PLANS FOR DEVICES.
	POWER/COMM POLE - FLOOR TO CEILING.
	SURFACE MOUNTED FLOOR BOX (PEDESTAL TYPE).
	PUSH BUTTON
	SIMPLEX RECEPTACLE NEMA 5-20R, +18" AFF UON
	NEMA 5-20R, +18" AFF UON
	TAMPER RESISTANT, NEMA 5-20R, +18" AFF UON
	SWITCHED RECEPTACLE, NEMA 5-20R, +18" AFF UON
	ISOLATED GROUND, NEMA 5-20R, +18" AFF UON
	NEMA 5-20R W/ GROUND FAULT CIRCUIT INTERRUPTER, +18" AFF UON
	SPLIT WIRED, NEMA 5-20R, +18" AFF UON
	CONTROLLED, NEMA 5-20R, +18" AFF UON
	NEMA 5-20R, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
	NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
	TAMPER RESISTANT, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
	NEMA 5-20R, CONNECTED TO EMERGENCY CIRCUIT, +18" AFF UON
	NEMA 5-20R ON EMERGENCY CIRCUIT MOUNTED ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
	CEILING-MOUNTED, NEMA 5-20R
	NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS
	TAMPER RESISTANT, NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS

LUMINAIRE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MOUNTING	CCT / CRI	INPUT WATTS (W)	LUMEN OUTPUT	EFFICACY (LUMENS / WATTS)	BALLAST / TRANSFORMER / DRIVER	VOLTAGE	LENS / REFLECTOR / BEAM	HOUSING	TRIM / FLANGE / BAFFLE / FINISH	MANUFACTURER / CATALOG #	REMARKS / ACCESSORIES/ OPTIONS
O1	6'-0" LINEAR LED LUMINAIRE	RECESSED	4000K 80CRI	19	1,660	87	0-10V DIMMING DRIVER	UNV	FLUSH ACRYLIC LENS	ALUMINUM	BY ARCHITECT	ALIGHT - D5 SERIES	PROVIDE PHOTOCELL
O2	TYPE II DISTRIBUTION WALL PACK LED LUMINAIRE	WALL	4000K 70CRI	32	3,215	100	0-10V DIMMING DRIVER	UNV	CLEAR	ALUMINUM	BY ARCHITECT	LITHONIA LIGHTING WDGE2 LED SERIES	WIRELESS CONTROL WITH MOTION SENSOR
O3	TYPE IV DISTRIBUTION WALL PACK LED LUMINAIRE	WALL	4000K 70CRI	185	25862	125	0-10V DIMMING DRIVER	UNV	CLEAR	ALUMINUM	BY ARCHITECT	LITHONIA LIGHTING WDGE4 LED SERIES	WIRELESS CONTROL WITH MOTION SENSOR
O4	4'-0" LINEAR LED LUMINAIRE	SURFACE	4000K 80CRI	20	2,274	113	0-10V DIMMING DRIVER	UNV	ACRYLIC LENS	ALUMINUM	BY ARCHITECT	ALIGHT - ALD3ST SERIES	PROVIDE PHOTOCELL
O4C	TYPE IV DISTRIBUTION AREA POST TOP LED LUMINAIRE	12' POLE	4000K 80CRI	99	8500	85	0-10V DIMMING DRIVER	UNV	CLEAR	ALUMINUM	BY ARCHITECT	COOPER LIGHTING - INVUE ARBOR SERIES	WIRELESS CONTROL WITH MOTION SENSOR AND PHOTOCELL
O5	DIRECT VIEW OUTDOOR LED TAPE	SURFACE	4000K 90CRI	5 WATTS PER FOOT	704 LUMENS PER FOOT	140	0-10V DIMMING DRIVER	24V	---	---	---	KELVIX - VIEW 700 (OUTDOOR) SERIES	PROVIDE PHOTOCELL AND ALUMINUM CHANNEL
O83	TYPE III DISTRIBUTION AREA POLE LED LUMINAIRE	30' POLE	4000K 80CRI	343	42,341	125	0-10V DIMMING DRIVER	UNV	CLEAR	ALUMINUM	BY ARCHITECT	LITHONIA D SERIES SIZE 2, TYPE 3 DSX2 LED-P8-40K-T3M-MVOLT-RPA-NLTAIR2-PIRH-DNAXD	WIRELESS CONTROL WITH MOTION SENSOR
O85	TYPE V DISTRIBUTION AREA POLE LED LUMINAIRE	30' POLE	4000K 80CRI	343	42,349	123	0-10V DIMMING DRIVER	UNV	CLEAR	ALUMINUM	BY ARCHITECT	LITHONIA D SERIES SIZE 2, TYPE 5 DSX2 LED-P6-40K-T5M-MVOLT-RPA-NLTAIR2-PIRH-DNAXD	WIRELESS CONTROL WITH MOTION SENSOR



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SYMBOLS LEGEND - LIGHTING	
SYMBOL	DESCRIPTION
L1	LIGHT FIXTURE IDENTIFIER - REFER TO LUMINAIRE SCHEDULE
A-1	PANEL NAME - CIRCUIT NUMBER
Z-XXX-1	SWITCH DESIGNATION - MIDDLE DIGITS REFER TO ROOM NUMBER - END DIGITS REFER TO SWITCH LEG
EM	SUBSCRIPT (IF APPLICABLE)
	* IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX. RL1/A-1/a/NL
[Shaded Box]	SHADING INDICATES LUMINAIRE ON EMERGENCY CIRCUIT OR WITH BATTERY BACKUP
○	DOWNLIGHT
○	RECESS OR WALL MOUNTED LUMINAIRE (SEE LUMINAIRE SCHEDULE)
□-○	POLE-MOUNTED LUMINAIRE - NUMBER OF LUMINAIRES AS SHOWN ON PLANS
X.XX	EXISTING LIGHT LEVEL MEASUREMENTS

SHEET NOTES

- ALL EXISTING LIGHT LEVEL MEASUREMENTS IN FOOT CANDLES UNLESS OTHERWISE NOTED.
- EXISTING LIGHT LEVEL MEASUREMENTS TAKEN WITH A GREENLEE 93-172 LIGHT METER AT 2'-6" ABOVE GRADE.
- EXISTING LIGHT LEVELS WERE TAKEN JANUARY 27TH, 2022. SITE CONDITIONS CONSISTED OF OVERCAST SKIES AND ALL TREES BARE FOR WINTER.
- LIGHTING CALCULATIONS DO NOT TAKE INTO ACCOUNT EXISTING LIGHT LEVEL READINGS.

Well-crafted simplicity.
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Revision 8 8 10/19/2023

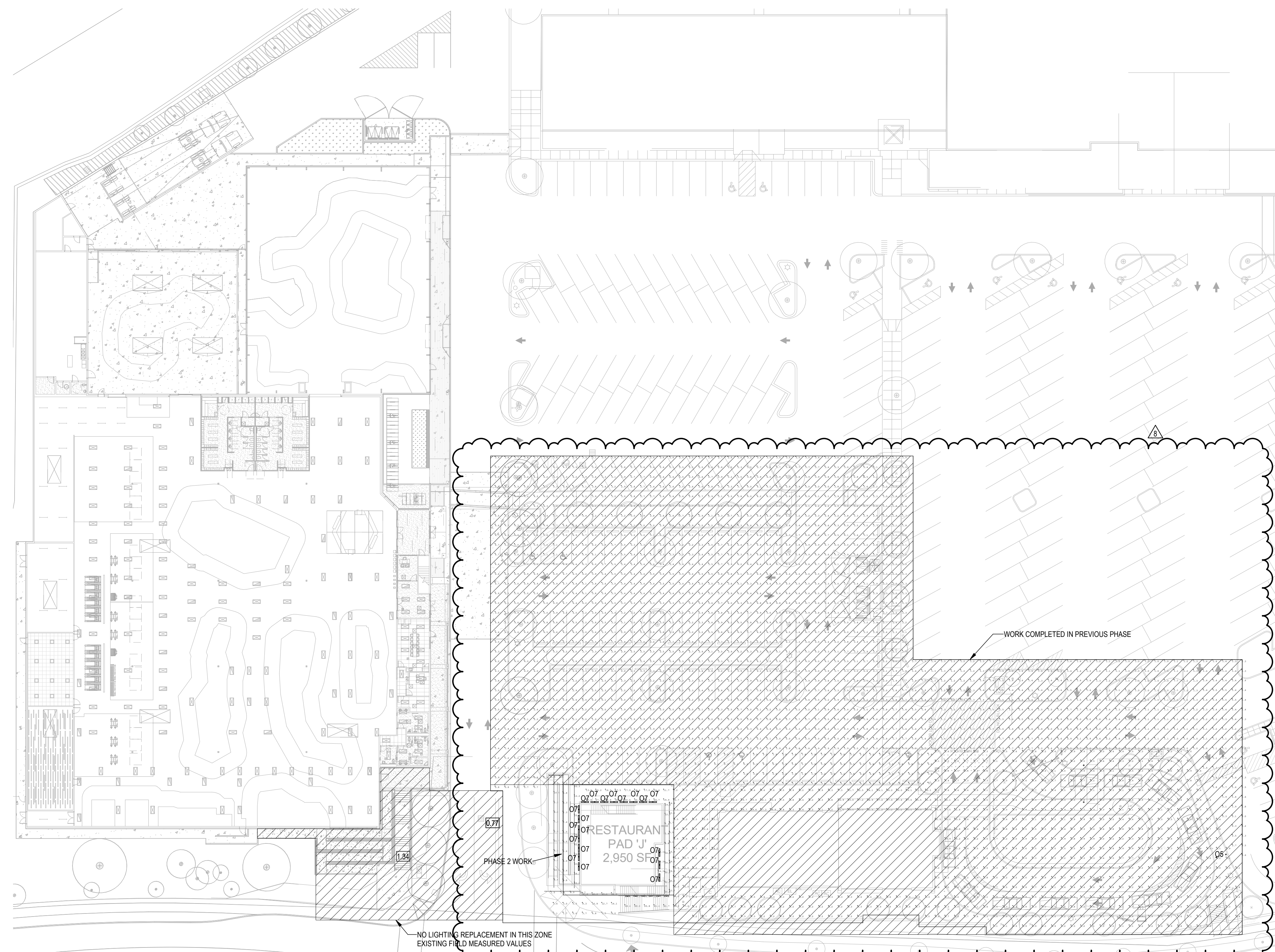
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SITE PHOTOMETRIC PLAN - PHASE 1
E1.01
DESIGN REVIEW

1" = 30'-0"
SITE PHOTOMETRIC PLAN - PHASE 1

LUMINAIRE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MOUNTING	CCT / CRI	INPUT WATTS (W)	LUMEN OUTPUT	EFFICACY (LUMENS / WATTS)	BALLAST / TRANSFORMER / DRIVER	VOLTAGE	LENS / REFLECTOR / BEAM	HOUSING	TRIM / FLANGE / BAFFLE / FINISH	MANUFACTURER / CATALOG #	REMARKS / ACCESSORIES / OPTIONS
EXTERIOR LIGHTING													
O4	TYPE IV DISTRIBUTION AREA POLE LED LUMINAIRE	20' POLE	4000K 70CRI	100	12,000	120	0-10V DIMMING	UNV	CLEAR	ALUMIN...	BY ARCHITECT	HUBBELL OUTDOOR LIGHTING RAR1 SERIES	WIRELESS CONTROL WITH MOTION...
O4A	SAME AS TYPE O4 EXCEPT WITH TYPE 3 DISTRIBUTION AND HIGHER LUME...	20' POLE	4000K 70CRI	160	21,488	120	0-10V DIMMING	UNV	CLEAR	ALUMIN...	BY ARCHITECT	HUBBELL OUTDOOR LIGHTING RAR2 SERIES	WIRELESS CONTROL WITH MOTION...
O4B	SAME AS TYPE O4 EXCEPT WITH TYPE 2 DISTRIBUTION AND HIGHER LUME...	20' POLE	4000K 70CRI	133	12,000	120	0-10V DIMMING	UNV	CLEAR	ALUMIN...	BY ARCHITECT	HUBBELL OUTDOOR LIGHTING RAR1 SERIES	WIRELESS CONTROL WITH MOTION...
O5	BOLLARD LED LUMINAIRE	39" POLE	3000K 80CRI	3	136	45	INTEGRAL 12V DRIVER	UNV	CLEAR	ALUMIN...	BY ARCHITECT	BEGA BOLLARD SERIES	WIRELESS CONTROL WITH MOTION...
O6	IN WALL STEPLIGHT LED LUMINAIRE	WALL	3000K 80CRI	3	274	91	0-10V DIMMING	UNV	CLEAR	ALUMIN...	BY ARCHITECT	BEGA RECESSED WALL LUMINAIRE SERIES	WIRELESS CONTROL WITH MOTION...
O7	4'-0" WET LINEAR LED STRIP LUMINAIRE	SURFACE	3000K 96CRI	35	3,000	85	0-10V DIMMING	24VDC	CLEAR	ALUMIN...	BY ARCHITECT	OPTIC ARTS BY LUMINII LINELED X18X2-WET-T...	WIRELESS CONTROL WITH MOTION...
O83	TYPE IV DISTRIBUTION AREA POLE LED LUMINAIRE	30' POLE	4000K 80CRI	343	42,341	343	0-10V DIMMING	UNV	CLEAR	ALUMINU M	BY ARCHITECT	LITHONIA D SERIES SIZE 2, TYPE 3 DSX2 LED-P6-40K-T5M-MVOLT-RPA-NLTAIR2-PIRH-DNAXD	WIRELESS CONTROL WITH MOTION SENSOR
O85	TYPE V DISTRIBUTION AREA POLE LED LUMINAIRE	30' POLE	4000K 80CRI	343	42,341	343	0-10V DIMMING	UNV	CLEAR	ALUMINU M	BY ARCHITECT	LITHONIA D SERIES SIZE 2, TYPE 5 DSX2 LED-P6-40K-T5M-MVOLT-RPA-NLTAIR2-PIRH-DNAXD	WIRELESS CONTROL WITH MOTION SENSOR



SYMBOLS LEGEND - LIGHTING	
SYMBOL	DESCRIPTION
○	L1 - LIGHT FIXTURE IDENTIFIER - REFER TO LUMINAIRE SCHEDULE
A-1	PANEL NAME - CIRCUIT NUMBER
Z-XXX-1	SWITCH DESIGNATION - MIDDLE DIGITS REFER TO ROOM NUMBER - END DIGITS REFER TO SWITCH LEG
EM	SUBSCRIPT (IF APPLICABLE)
* IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: RL1 / A-1 / a / NL	
◼	SHADING INDICATES LUMINAIRE ON EMERGENCY CIRCUIT OR WITH BATTERY BACKUP
—	LINEAR LUMINAIRE
○	BOLLARD
⊙	RECESS OR WALL MOUNTED LUMINAIRE (SEE LUMINAIRE SCHEDULE)
□-○-□	POLE-MOUNTED LUMINAIRE - NUMBER OF LUMINAIRES AS SHOWN ON PLANS
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SITE PHOTOMETRIC PLAN - PHASE 2

1" = 30'-0"



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**TOWN SQUARE
STARBUCKS
AND PAD**

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SITE
PHOTOMETRIC
PLAN - PHASE 2

E1.02

DESIGN REVIEW