DEMOLITION NOTES

A. 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.

B. EXISTING LIGHT FIXTURES SHALL BE CAREFULLY REMOVED (DO NOT DAMAGE) AND RETURNED TO THE OWNER.

C. ANY AND ALL EQUIPMENT HAVING ELECTRICAL CONNECTIONS THAT REQUIRE DISCONNECTING AND/OR RE-CONNECTING AS A RESULT OF CONSTRUCTION SHALL BE INCLUDED AS A PART OF THIS CONTRACT.

D. 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.

E. 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.

F. REMOVE ALL ABANDONED WIRE AND CABLING.

GENERAL NOTES

1. 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.

2. 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.

3. EACH FEEDER AND BRANCH CIRCUIT CONDUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NFPA 70, ARTICLE 250.

4. ALL ELECTRICAL EQUIPMENT IN PORTIONS OF THE BUILDING NOT BEING REMODELED SHALL BE LEFT IN WORKING CONDITION. RESTORE ANY CIRCUITS INTERRUPTED.

5. ALL NEW LIGHT FIXTURES AND FIXTURES IN AREAS ADJACENT DEMOLITION & CONSTRUCTION AREAS ARE TO BE THOROUGHLY CLEANED IMMEDIATELY PRIOR TO NOTICE OF SUBSTANTIAL COMPLETION.

6. THE FOLLOWING IS PART OF THIS PROJECT AND ALL COSTS PERTAINING THERETO SHALL BE INCLUDED IN THE BASE BID:

   A. NEW ELECTRICAL EQUIPMENT AND APPARATUS SHALL BE COORDINATED AND CONNECTED INTO THE EXISTING SYSTEM AS REQUIRED.

   B. 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.

   C. 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.

   D. 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.

   E. 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

1. LIGHTING SYSTEMS SHALL BE PROVIDED WITH CONTROLS AS ZONED ON THE LIGHTING PLANS. SWITCHING AND DIMMING ZONES ARE INDICATED ADJACENT TO EACH FIXTURE.

2. MANUAL CONTROLS SHALL ALLOW OCCUPANTS TO UNIFORMLY REDUCE ILLUMINATION LEVELS AT LEAST 50%. EXCEPTION: CORRIDORS, RESTROOMS, LOBBIES, MECHANICAL, ELECTRICAL, AND INFORMATION TECHNOLOGY (IDF) ROOMS CONTROLLED BY OCCUPANCY SENSORS.

3. EACH AREA THAT IS REQUIRED TO HAVE A MANUAL CONTROL SHALL ALSO HAVE AUTOMATIC TIME SWITCH CONTROL. PROVIDE TIMED OVERRIDE SWITCHES THAT WILL SERVE A MAXIMUM AREA OF 2500 SF IN LOCATIONS SHOWN ON PLANS. EXCEPTIONS:

   A. EMERGENCY EGRESS LIGHTING CONTROLLED BY OCCUPANCY SENSORS.
   B. LIGHTING IN SPACES CONTROLLED BY OCCUPANCY SENSORS.

4. 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.

5. 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.

6. 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

1. SYSTEM CABLING PATHWAYS SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT VERSION OF TIA-569.

2. CABLE SUPPORTS SHALL NOT BE PLACED MORE THAT 5' APART.

3. CABLE "SAG" BETWEEN SUPPORTS SHALL NOT EXCEED 12".

4. 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.

5. CABLE MINIMUM BEND RADIUS AND MAXIMUM PULLING TENSION SHALL NOT BE EXCEED. REFER TO MANUFACTURER'S REQUIREMENTS AND REFERENCE DOCUMENTS.

6. CABLES SHALL BE INSTALLED IN CONTINUOUS LENGTHS FROM ORIGIN TO DESTINATION (NO SPLICES).

7. 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.

8. CABLES SHALL NOT BE ATTACHED TO CEILING GRID OR LIGHTING FIXTURE WIRES.

9. 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.

10. ANY CABLE DAMAGED DURING INSTALLATION OR EXCEEDING RECOMMENDED INSTALLATION PARAMETERS SHALL BE REPLACED PRIOR TO FINAL ACCEPTANCE AT NO ADDITIONAL COST TO THE OWNER.

11. CABLES AND PATHWAYS SHALL BE CLEARLY LABELED IN ACCORDANCE WITH TIA-606-C.

12. 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.

13. HORIZONTAL UTP PAIR UNTWIST AT THE TERMINATION SHALL NOT EXCEED 0.5".

14. 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.

15. ALL PENETRATIONS MUST BE FIRE-STOPPED IN ACCORDANCE OF THE NFPA, NEC AND TO THE SATISFACTION OF THE AHJ.

16. ALL TELECOMMUNICATION ROOMS AND PATHWAYS SHALL ADHERE TO TIA-569-D.

17. ALL TELECOMMUNICATION BONDING AND GROUNDING SHALL ADHERE TO TIA-607-D.

18. NOT ALL PARTS SHOWN. ENSURE A COMPLETE WORKING INSTALLATION INCLUDING MISCELLANEOUS INSTALLATION MATERIALS, CONNECTORS, CONSUMABLES, AND APPURTENANCES.

19. PROVIDE NETWORK/TELEPHONY CABLES TO THE FOLLOWING LOCATIONS FROM THE NEAREST COMMUNICATIONS ROOM, UNLESS OTHERWISE NOTED:

   A. ELEVATOR CONTROL PANELS/ENCLOSURES
   B. BUILDING SYSTEM MANAGEMENT PANELS/ENCLOSURES
   C. ENERGY SYSTEM MANAGEMENT PANELS/ENCLOSURES
   D. FIRE ALARM CONTROL SYSTEM PANELS/ENCLOSURES
   E. ACCESS CONTROL SYSTEM PANELS/ENCLOSURES
   F. TWO-WAY EMERGENCY COMMUNICATIONS SYSTEMS PANELS/ENCLOSURES

ABBREVIATIONS

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

ELECTRICAL SHEET INDEX SITE

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SYMBOLS LEGEND - GENERAL

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

SYMBOLS LEGEND - POWER

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

SYMBOLS LEGEND - POWER

DESCRIPTION
CB CIRCUIT BREAKER ST - INDICATES SHUNT TRIP
CB xxxA/xP ENCLOSED CIRCUIT BREAKER (PLAN VIEW) xxxA/xP - AMPS/POLES
ENCLOSED CIRCUIT BREAKER (ONE-LINE DIAGRAM) xxxA/xP - AMPS/POLES
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
SV SOLENOID VALVE
M MOTOR-OPERATED VALVE
T THERMOSTAT
TERMINAL BLOCK
A 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
G	GENERATOR
M	MOTOR CONNECTION
M SD	SMOKE DAMPER
M FSD	FIRE SMOKE DAMPER
M	STARTER 3-POLE, NEMA SIZE 1 MINIMUM UNLESS NOTED OTHERWISE
H	COMBINATION STARTER HP RATED, 3-POLE, NEMA SIZE 1 MINIMUM, UNLESS NOTED OTHERWISE - OVERCURRENT PROTECTION AS REQUIRED BY EQUIPMENT MANUFACTURER OR AS NOTED
H	DISCONNECT SWITCH 3-POLE UNLESS NOTED OTHERWISE
H	FUSED DISCONNECT SWITCH 3-POLE UNLESS NOTED OTHERWISE
C	CONTACTOR
CR	RELAY COIL CR-CONTROL RELAY; TD-TIME DELAY RELAY; UV-UNDERVOLTAGE RELAY; M-MOTOR CONTACTOR;
M $	MOTOR-RATED SWITCH - SIZE OL PER MOTOR REQUIREMENTS
	EQUIPMENT EMERGENCY SHUTDOWN SWITCH

SYMBOLS LEGEND - SECURITY

SYMBOL	DESCRIPTION
CR WP	CARD READER. (KP = KEYPAD) (WP = WEATHERPROOF)
DC	DOOR/WINDOW CONTACT
ES	ELECTRIC STRIKE
REX	REQUEST TO EXIT PUSHBUTTON
RES	REQUEST TO EXIT SENSOR
WP	CCTV CAMERA - CEILING MOUNTED (WP = WEATHERPROOF) (° = ANGLE OF CAMERA VIEW (IE. 180°, 270°, 360°, PTZ))
WP	CCTV CAMERA - WALL MOUNTED (WP = WEATHERPROOF) (° = ANGLE OF CAMERA VIEW (IE. 180°, 270°, 360°, PTZ))
	PANIC / DURESS BUTTON
X IC	INTERCOM OUTLET (D = DESK MOUNTED) (W = WALL MOUNTED @ +48" AFF)
K	KEYPAD - ALARM PANEL
MD	MOTION DETECTOR - INFRARED TYPE UNLESS OTHERWISE NOTED
BG	BREAK GLASS SENSOR
A	ALARM BELL

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
UG	CONDUIT - ROUTED UNDERGROUND
LV	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
A-1,3,5	BRANCH CIRCUIT NUMBERS PANEL DESIGNATION HOME RUN TO SOURCE OF SUPPLY
	CONDUCTORS - CONNECTED
	CONDUCTORS - NOT CONNECTED
	JUNCTION BOX
PB	PULLBOX - SIZE AS INDICATED OR AS REQUIRED BY CODE
HH	HANDHOLE
MH	MANHOLE

SYMBOLS LEGEND - POWER

SYMBOL	DESCRIPTION
	480Y/277V, 3Ø, 4W PANELBOARD
	208Y/120V, 3Ø, 4W PANELBOARD
	EQUIPMENT CABINET - TYPE AS NOTED
XX	PANELBOARD
	TRANSFER SWITCH (AUTO)
XXXXXX	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

DESCRIPTION
$ SINGLE-POLE WALL SWITCH MOUNT SWITCHES AT 48" AFF. TO TOP, UON.
$XX WALL SWITCH - SUBSCRIPT 2 = 2-POLE LV = LOW-VOLTAGE 3 = 3-WAY OS = OCCUPANCY SENSOR TYPE 4 = 4-WAY OP = OCCUPANCY/PHOTOELECTRIC TYPE K = KEYED 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 KEYED 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
T T TAMPER RESISTANT, NEMA 5-20R, +18" AFF UON
S S SWITCHED RECEPTACLE, NEMA 5-20R, +18" AFF UON
IG IG 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.
T T 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
T TAMPER RESISTANT, NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS

SYMBOLS LEGEND - LIGHTING

SYMBOL	DESCRIPTION
L1 A - 1 Z-XXX-1 EM	LIGHT FIXTURE IDENTIFIER - REFER TO LUMINAIRE SCHEDULE PANEL NAME - CIRCUIT NUMBER SWITCH DESIGNATION - MIDDLE DIGITS REFER TO ROOM NUMBER - END DIGITS REFER TO SWITCH LEG 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
	2x4 LUMINAIRE
	1x4 LUMINAIRE
	2x2 LUMINAIRE
	LINEAR LUMINAIRE
	WALL WASH LUMINAIRE
	WALL MOUNTED LUMINAIRE
	UNDER-CABINET LUMINAIRE
	STRIP LUMINAIRE
	DOWNLIGHT
	WALL WASH DOWNLIGHT LUMINAIRE
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED DIRECTIONAL LUMINAIRE
	PENDANT MOUNTED LUMINAIRE
	TRACK LIGHT - LENGTH AS INDICATED ON PLANS NUMBER OF LUMINAIRES AS SHOWN
	POLE-MOUNTED LUMINAIRE - NUMBER OF LUMINAIRES AS SHOWN ON PLANS
	STREET LIGHT
	IN-GROUND LANDSCAPE LUMINAIRE
	ILLUMINATED EXIT SIGN - SINGLE FACE ARROW INDICATES DIRECTION OF EGRESS, UNIVERSAL MOUNT
	ILLUMINATED EXIT SIGN - DOUBLE FACE ARROW INDICATES DIRECTION OF EGRESS, UNIVERSAL MOUNT
	BATTERY-POWERED EMERGENCY WALLPACK
	COMBINATION BATTERY POWERED EMERGENCY WALLPACK AND ILLUMINATED EXIT SIGN
TC	TIME CLOCK - TYPE AS NOTED
PP	LIGHTING CONTROL SYSTEM POWER PACK
SB	SWITCH BYPASS DEVICE
ICS1-1	ILLUMINATION CONTROL STATION
OS	OCCUPANCY SENSOR CEILING MOUNTED WITH POWER PACK - DUAL TECHNOLOGY TYPE UNLESS NOTED: U = ULTRASONIC P = PASSIVE INFRARED
OS	OCCUPANCY SENSOR WALL MOUNTED
PC	PHOTOELECTRIC CONTROL CEILING MOUNTED
PC	PHOTOELECTRIC CONTROL WALL MOUNTED

SYMBOLS LEGEND - FIRE ALARM

SYMBOL	DESCRIPTION
ESR	FIRE ALARM SYSTEM CONTROL PANEL ESR - ELEVATOR STATUS/RECALL FAC - FIRE ALARM COMMUNICATOR FACP - FIRE ALARM CONTROL PANEL FAA OR FARA - FIRE ALARM ANNUNCIATOR HVA - HVAC OR EXHAUST STAIRWELL PRESSURIZATION LCD - FIRE ALARM LCD ANNUNCIATOR
FS	FIRE ALARM FLOW SWITCH
PS	HI/LO AIR PRESSURE SWITCH
DH	HI/LO AIR PRESSURE SWITCH
VS	VALVE SUPERVISORY SWITCH
PIV	POST INDICATOR VALVE SUPERVISORY SWITCH
F	FIRE ALARM PULL STATION
SD	FIRE/SMOKE DAMPER
SD	SMOKE DAMPER
F	FIRE ALARM HORN ONLY
XX	FIRE ALARM HORN STROBE, XX = CANDELA RATING
S	FIRE ALARM SPEAKER ONLY
XX	FIRE ALARM SPEAKER STROBE, XX = CANDELA RATING
XX	FIRE ALARM STROBE ONLY - WALL, XX = CANDELA RATING
XX	FIRE ALARM STROBE ONLY - CEILING, XX = CANDELA RATING
F	FIRE ALARM BELL
	FIRE FIGHTER PHONE JACK
	HEAT DETECTOR, RATE OF RISE AND FIXED TEMPERATURE UON F - FIXED TEMPERATURE R - RATE OF RISE ONLY R/C - RATE COMPENSATION
S	SMOKE DETECTOR, PHOTOELECTRIC UON BT - BEAM TRANSMITTER BR - BEAM RECEIVER I - IONIZATION
S	FIRE ALARM DUCT SMOKE DETECTOR WITH SAMPLING TUBE
	FLAME DETECTOR
	GAS DETECTOR
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
ISO	ISOLATION MODULE
	FIRE ALARM EQUIPMENT CONNECTION
R	RELAY BLOCK

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WESTERN TECHNOLOGIES WAREHOUSE

1395 N Hayden Rd
Scottsdale, AZ 85257

Registration:

Project No:	1395
Date:	4/22/2022
Drawn By:	JWN
Reviewed By:	Checker

No:	Revision	Date

SÄZÄN
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311 E. Veterans Way, Ste. 102
Tempe, AZ 85281
Tel 480.530.9101
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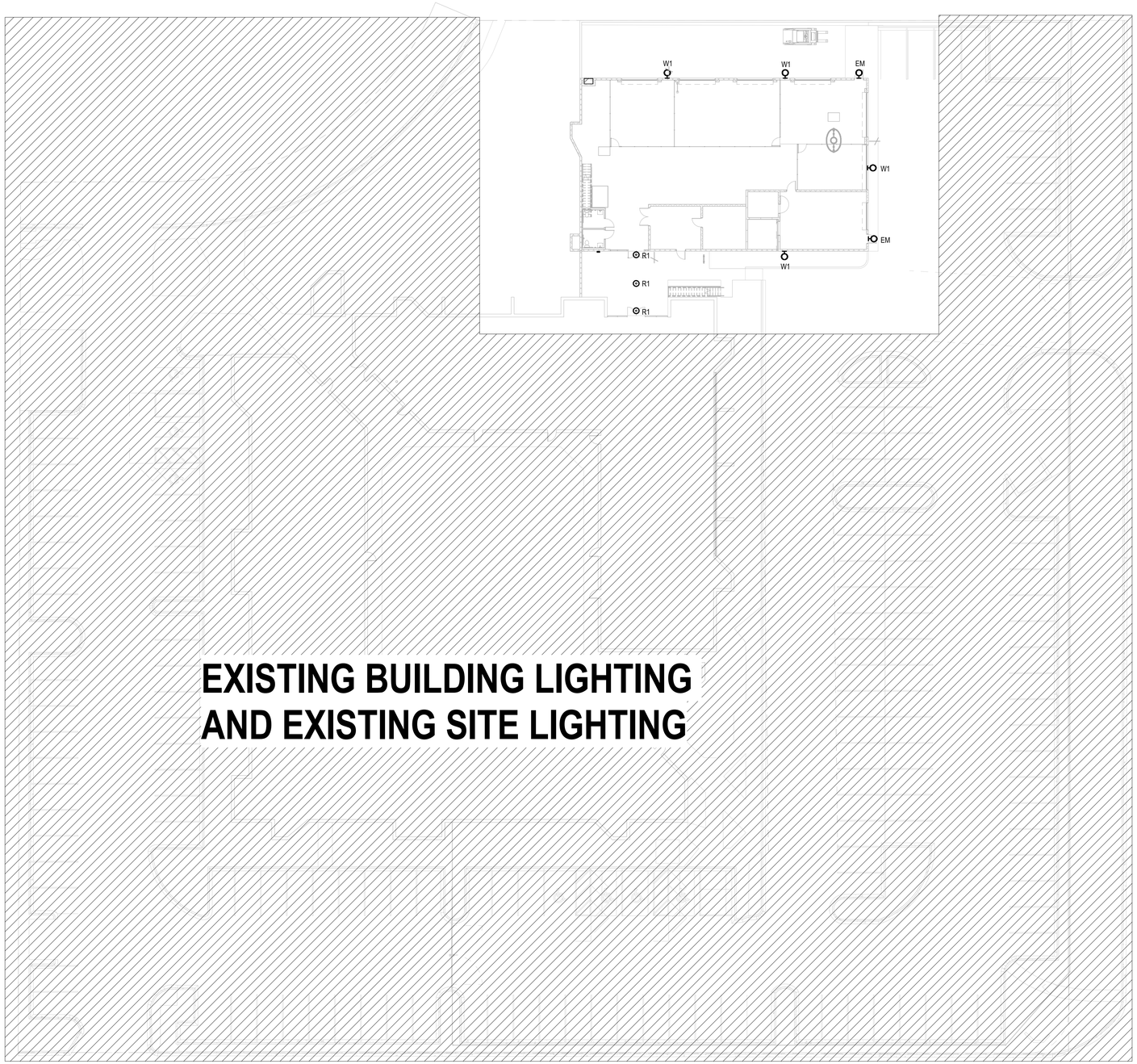
SAZAN# 882-22002

Sheet Title:
ELECTRICAL LEGEND

Sheet No:
E0.01



ELECTRICAL - SITE PLAN

1" = 20'-0"

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WESTERN TECHNOLOGIES WAREHOUSE

1395 N Hayden Rd
Scottsdale, AZ 85257

Registration:

Registered Professional Engineer (Electrical)
16291
STEPHEN A. SANDERS
Date Signed 4/22/2022
ARIZONA, U.S.A.

Project No:	1395
Date:	4/22/2022
Drawn By:	JWN
Reviewed By:	Checker

No:	Revision	Date
1	City Comments	04/22/2022

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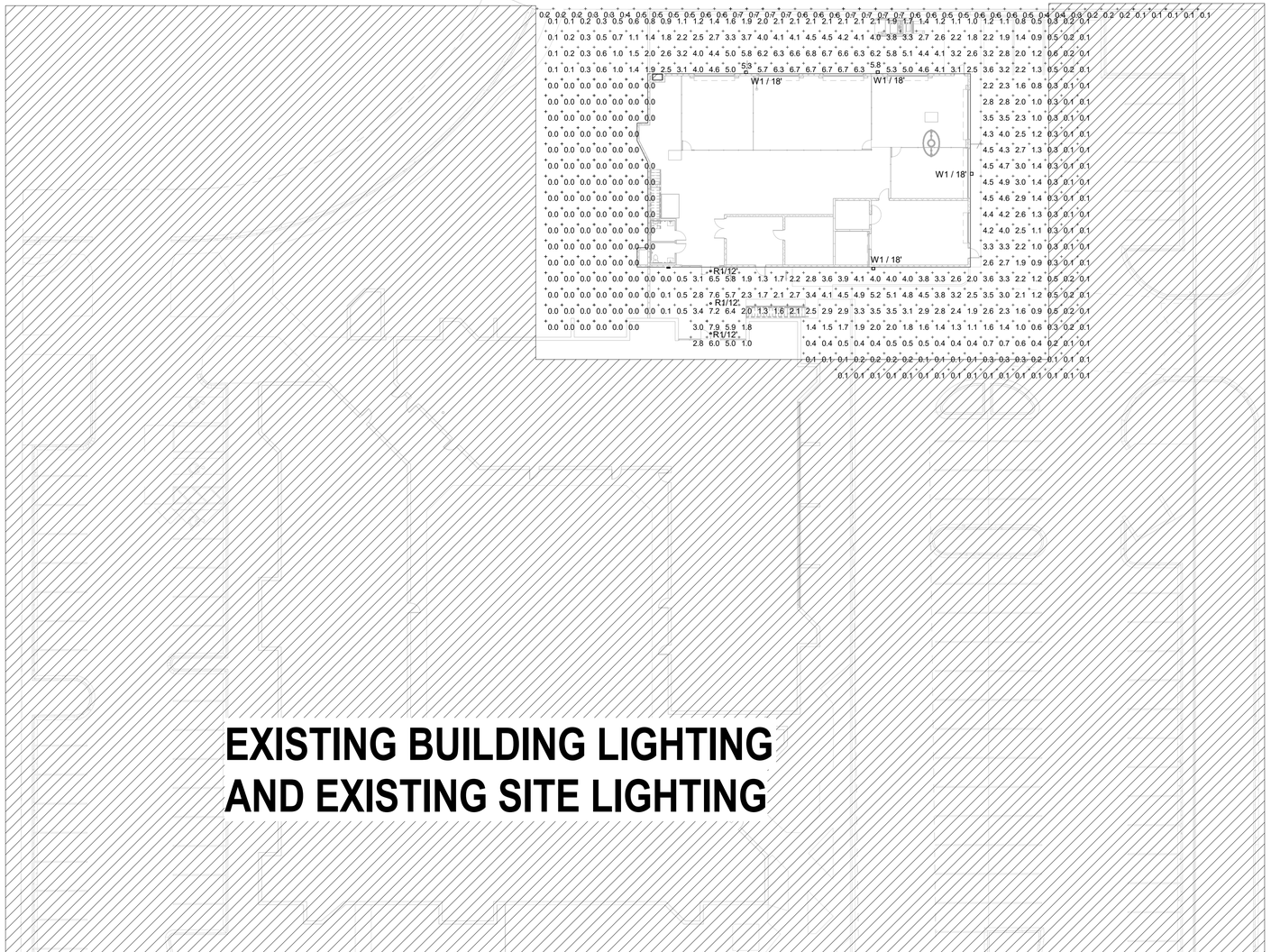
Sheet Title:
ELECTRICAL - SITE PLAN

Sheet No.:
E0.02



Schedule

Symbol	Label	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
▭	W1	Lithonia Lighting	DSX1 LED P1 30K T1S MVOLT	DSX1 LED P1 30K T1S MVOLT	1	6457	1	54
◯	R1	Lithonia Lighting	LDN6 30/10 LO6AR LSS	6IN LDN, 3000K, 1000LM, CLEAR, SEMI-SPECULAR REFLECTOR, CRI80	1	938	0.9	10.44

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.6 fc	7.9 fc	0.0 fc	N/A	N/A
Property line	+	0.5 fc	0.7 fc	0.1 fc	7.0:1	5.0:1

ELECTRICAL - PHOTOMTRIC PLAN

1" = 20'-0"

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Registration:

REGISTERED PROFESSIONAL ENGINEER (ELECTRICAL) CERTIFICATE NO. 46291 STEPHEN A. SANDERS 4/22/2022 Date Signed ARIZONA, U.S.A.

Project No: 1395
Date: 4/22/2022
Drawn By: JWN
Reviewed By: Checker

No:	Revision	Date
1	City Comments	04/22/2022

Sheet Title:
PHOTOMETRIC PLAN

Sheet No:
E0.03

LUMINAIRE SCHEDULE SITE

TYPE MARK	DESCRIPTION	FIXTURE WATTAGE	VOLTAGE	MANUFACTURER
EM	WALL MOUNTED EMERGENCY LIGHT FIXTURE AT 9'-0"	5 W	120 V	LITHONIA LIGHTING "AFF PEL UVOLT SDRT WT "
R1	6" DOWNLIGHT AT 12'-0"	10 W	120 V	LITHONIA LIGHTING - LDN6-30/10-L06AR-LSS
W1	WALL MOUNTED AT 18'-0"	54 W	120 V	LITHONIA LIGHTING - DSX1 LED P1 30K T1S MVOLT WBA

EM

LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — Ideal for applications requiring low-profile, attractive emergency lighting with Optional normally-off or normally-on with photocell control. Provides a minimum of 90 minutes of illumination both indoors and outdoors upon loss of AC power. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.**

CONSTRUCTION — Compact, low-profile, architectural design with die-cast aluminum housing. Finishes are texturized powder coat paint for dark bronze, white, black and non-texturized for natural aluminum. Test switch indicator light and remote enabled are located on the bottom of the housing and are easily accessible and visible from the floor.

OPTICS — LEDs with L70 of 55,000 hours. Delivers 635 lumens in Normal-On and Emergency operation. Optional field configurable for wide and forward throw distribution **(US Patent Pending)**. Outdoor wide throw distribution: 70' (3' path of egress) at a 7.5' mounting height with 1 FC Average.

4,000K correlated color temperature (CCT).

70 CRI.

ELECTRICAL — UVOLT (120 thru 347V, 50/60hz). Current-limiting charger maximizes battery life and minimizes energy consumption to provide low operating costs. Small battery chargers Certified in the CA Title 20 Appliance Efficiency Database

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts. Regulated charge voltage maintains a stable charge voltage over a wide range of line voltages.

Prevents over/undercharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life.

Photocell option (PEL) for normally on product in order to discontinue illumination during periods when ambient light is present.

Remote units (OELR) are normally off. Emergency only functionality with DC power from an external battery.

BATTERY: Sealed, maintenance-free Lithium Iron Phosphate battery.

SELF-DIAGNOSTICS AND REMOTE TEST (SDRT OPTION): Automatic 24-hour recharge after a 90-minute discharge. Advanced electrical design provides constant light output throughout the entire discharge period for non-CW batteries. (For cold weather and cold temperature applications, the light may diminish though the discharge cycle). Brownout protection is automatically switched to emergency mode when supply voltage drops below approximately 80 percent nominal of 120, 220, 277 or 347. Other input voltages may vary. AC/LVDrv-set allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Self-Diagnostics: Continuously monitors AC functionality. Standard derangement monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-chromatic LED indicator to display two-state charging, test activation and three-state self-diagnostics.

Self-diagnostic testing: Five minutes every 30 days and 90 minutes annually. Diagnostic evaluation of lamps, AC to DC transfer, battery charging and condition of microprocessor. Automatic test is easily postponed for eight hours by activating manual test switch or use of remote tester (RTKIT accessory).

Manual testing: Test switch and remote tester (RTKIT accessory) provides manual activation of 60-second diagnostic testing for on-demand visual inspection. 90 minute manual testing can be enabled by pressing the test switch again while in test mode.

INSTALLATION — Wall mount: typically meets 7.5' to 14' mounting height from ground or floor. Power supplied by either mounting directly to a 4" square or 4" octagon j-box (wall mount) and accepts rigid or flex conduit.

LISTINGS — UL wet location listed standard at 32-122°F (0-50°C). Unit with CW battery(cold weather) listed for -22°F to 122°F (-30° to 50°C). Remote listed for -40°F to 122°F (-40° to 50°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101 (current Life Safety code), NFPA 70 (NEC), NOM (Norma Oficial Mexicana), California Energy Commission Title 20 section 1605.3 (W)(vi), FCC Title 47, Part 15, Subpart B and OSHA. List and labeled to comply with Canadian Standards C22.2 No. 141-10. Meets City of Chicago Code.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.

AFFINITY®

Premium Die-Cast Architectural Emergency Light

AFF

without photocell (white)

without photocell (natural aluminum)

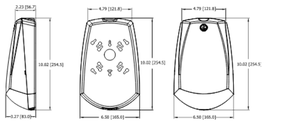
with photocell (white)

with photocell (dark bronze)

MOUNTING

All dimensions are inches (centimeters).
Shipping weight: 3.5 lbs. (1.59 kgs.)

Length: 6 1/2 (16.51)
Depth: 3 27/100 (8.30)
Height: 10 (25.45)
Weight : 3.5 lbs (1.59kg)



LISTED

EMERGENCY AFF

W1

D-Series Size 2

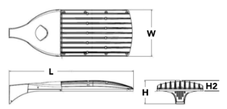
LED Area Luminaire

Catalog Number	
Notes	
Type	

Fill the 'Tab Key' or mouse over the page to see all interactive elements

Specifications

EPA:	1.1 ft² (0.10 m²)
Length:	40" (101.6 cm)
Width:	15" (38.1 cm)
Height 1:	7-1/4" (18.4 cm)
Height 2: (max):	3.5"
Weight:	36lbs



Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. The Size 2 is ideal for replacing 400-1000W metal halide in area lighting applications with energy savings of up to 80% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX2 LED P7 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX2 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX2 LED	**Forward optics** P1 P5[1] P2 P6 P3 P7[1] P4 P8[1] **Rotated optics** P10[1] P13[1,2] P11[1] P14[1,2] P12[1]	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I Short (Automotive) T2S Type I Short T2M Type I Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	T5VS Type V Very Short [2] T5S Type V Short [2] T5M Type V Medium [2] T5W Type V Wide [2] BLC Backlight control [3] LCCO Left corner cutoff [3] RCCO Right corner cutoff [3]	MVOLT [1] XVOLT (277V-480V) [1,7,8] 120 [9] 208 [9] 240 [9] 277 [9] 347 [9] 480 [9] **Shipped included** SPA Square pole mounting RPA Round pole mounting [9] WBA Wall bracket [9] SPUMBA Square pole universal mounting adaptor [11] RPUMBA Round pole universal mounting adaptor [11] **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) [10]

Control options		Other options		Finish (required)	
Shipped installed		**Shipped installed**		DDBXD	Dark bronze
NLTAIR2 nLight AIR generation 2 enabled [12]	PIRHN Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enable at 5fc [4]	HS House-side shield [13]		DBLXD	Black
PIRHN Network, Bi-Level motion/ambient sensor [4]	PIRH1FC3V High/low, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc [4,20]	SF Single fuse (120, 277, 347V) [1]		DNAXD	Natural aluminum
PER NEMA twist-lock receptacle only (no controls) [5,6]		DF Double fuse (208, 240, 480V) [1]		DWHXD	White
PERS Five-wire receptacle only (no controls) [5,6]		L90 Left-rotated optics [2]		DBTXD	Textured dark bronze
PER7 Seven-wire receptacle only (no controls) [5,6]		R90 Right rotated optics [2]		DBLBXD	Textured black
DMG 0-10V dimming extend out back of housing for external control (no controls) [7]	FAO Field Adjustable Output [2]	HA 50°C ambient operations [1]		DNATXD	Textured natural aluminum
DS Dual switching [6,20]		**Shipped separately**		DWHGXD	Textured white
		BS Bird spikes [21]			
		EGS External glare shield			

LITHONIA LIGHTING
COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

DSX2-LED
Rev. 02/17/21
Page 1 of 8

R1

LITHONIA LIGHTING®

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.
Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.
Two combination ½"-3/4" and four ½" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.
Accommodates 12"-24" joist spacing.
Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.
Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum. 90 CRI optional.
LED light source concealed with diffusing optical lens.
General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.
Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.
0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.
70% lumen maintenance at 60,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

A+ Capable options indicated by this color background.

LDN6

6" Open and Wall/Wash LED
Non-IC
New Construction Downlight

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN6 35/15 L06AR LSS MVOLT EZ10

LDN6 Series	Color temperature	Lumens[1]		Aperture/Trim Color			Finish	Voltage
LDN6 6" round	27/ 2700K	05 500 lumens	25 2500 lumens	L06 Downlight	AR Clear		LSS Semi-specular	MVOLT Multi-volt
	30/ 3000K	07 750 lumens	30 3000 lumens	LW6 Wallwash	WH[3] White		LD Matte diffuse	120 120V
	35/ 3500K	10 1000 lumens	40 4000 lumens		BR[3] Black		LS Specular	277 277V
	40/ 4000K	15 1500 lumens	50 5000 lumens					347[3] 347V
	50/ 5000K	20 2000 lumens						

Driver	Options		
G210 0-10V driver dims to 10%	SF[4] Single fuse	NBO[7] nLight™ Lumen Compensation	
G21 0-10V driver dims to 1%	TRW[3] White painted flange	JOT[10] Wireless room control with "Just One Touch" pairing	
D10 Minimum dimming 10% driver for use with JOT	TRBL[3] Black painted flange	NPS80EZ[7] nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).	
D1 Minimum dimming 1% driver for use with JOT	EL[3] Emergency battery pack with integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	NPS80EZER[7] nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.	
EZ10 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	ELR[4] Emergency battery pack with remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	HAO[11] High ambient option	
	ELSD[4] Emergency battery pack with self-diagnostics, integral test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	CP[12] Chicago Plenum	
	ELRSD[4] Emergency battery pack with self-diagnostics, remote test switch. 10W Constant Power, Not Certified in CA Title 20 MAEDBS	RRL___ RELOC® ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Available only in RBLA, RBLB, RBLAC, and RBLC125. Refer to RRL spec sheet on www.acuitybrands.com for the RELOC product specifications.	
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	E10WCP[4] Emergency battery pack, 10W Constant Power with integral test switch. Certified in CA Title 20 MAEDB	nLight® Air enabled	
	E10WCPR[4] Emergency battery pack, 10W Constant Power with remote test switch. Certified in CA Title 20 MAEDB	NLTAIR2[9,10] nLight® AIR Dimming Pack Wireless Controls. Controls fixtures on emergency circuit, not available with battery pack options	
EDA8 eldoLED DALI SOLDRIVE dim to dark	NPP16D[7] nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	NLTAIR2EJ[9,10] nLight® AIR Dimming Pack Wireless Controls, UL924 Emergency Operation, via power interrupt detection. Available with battery pack options. Buy America(n) Act Compliant	
	NPP16DER[7] nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	NLTAIREM2[9,10] nLight® AIR Dimming Pack Wireless Controls, UL924 Emergency Operation, via power interrupt detection. Available with battery pack options.	BAA Buy America(n) Act Compliant
			90CRI High CRI (90+)

Accessories: *Order as separate catalog number.*

PS10S5CP	FMC Power Sentry batterypack, 720 compliant, field installable, 10w constant power
EAC ESSM 325	Compact interruptible emergency AC power system
EAC ESSM 325	Compact interruptible emergency AC power system
GRA6X-JZ	Oversized trim ring with 8" outside diameter
SCA6	Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D

Notes
1 Overall height varies based on lumen package; refer to dimensional chart on page 3.
2 Not available with finishes.
3 Not available with emergency options.
4 Must specify voltage 120V or 277V.
5 Available with clear (AR) reflector only.
6 12.5" of plenum depth or top access required for battery pack maintenance.
7 Specify voltage. ER for use with generator supply EM power. NBO requires an emergency hot feed and normal hot feed.
8 Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ10 and EZ1 drivers.
9 Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or NBO options.
10 NLTAIR2, NLTAIRE2 and NLTAIREM2 not recommended for metal ceiling installations.
11 Fixture height is 6.5" for all lumen packages with HAO.
12 Must specify voltage for 3000lm and above. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.
13 Must specify D10 or D1 drivers. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.

DOWNLIGHTING LDN6

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Sheet Title:
LIGHTING SCHEDULE AND CUT-SHEETS

Sheet No:
E2.00