SHEET INDEX

ELECTRICAL SYMBOLS AND NOTES

SITE PHOTOMETRIC SITE LIGHTING DATA SHEETS SYMBOL LEGEND

NOTES:

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE. 2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.

3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.

4. SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED. 5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V. 6. HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.

7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED. 8. DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT. 9. DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP

DEVICE INDICATES INSTALLED IN CEILING.

DRAWINGS AND ELEVATIONS FOR HEIGHT. 10. SUBSCRIPT INDICATES NEMA CONFIGURATION. 11. SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND 12. COORDINATE WITH DOOR HARDWARE SUPPLIER.

13. FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.

14. ARROWS SHOWN ON DEVICE INDICATE AIMING DIRECTION.

15. CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG. 16. MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR

IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.

17. INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 18. DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.

19. SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION. 20. MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.

\*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
-	ONE CIRCUIT, HOME RUN TO PANEL				EQUIPMENT PANEL, SEE DRAWINGS	+72"	6.
	2 CIRCUIT, HOME RUN TO PANEL			<u></u>	CABLE TRAY	AS NOTED	
	3 CIRCUIT, HOME RUN TO PANEL			III.	GROUND BUS BAR	+18"	6.
	CONDUIT RUN CONCEALED IN WALL OR CEILING			X	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			$\langle X \rangle$	EQUIPMENT NUMBER		
	CONDUIT UP			X	ARCHITECTURAL ROOM NUMBER		
•	CONDUIT DOWN			X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE		
	CONDUIT STUB LOCATION	CAP CONDUIT		X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE / LEGEND		
	CONDUIT / CIRCUIT CONTINUATION	3323					
LIGHTING							
	CEILING LIGHT FIXTURE	CEILING	1.	PP	POWER PACK	ABOVE CEILING	SEE DIAGRAM SPEC.
Ю	WALL LIGHT FIXTURE	AS NOTED	1.	RC X	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE CEILING	SEE DIAGRAM SPEC.
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.	EP	EMERGENCY LIGHTING CONTROL UNIT	ABOVE CEILING	SEE DIAGRAM
$\bigcirc\rangle$	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.	<b>\$</b> <sup>3</sup>	THREE-WAY SWITCH	+46"	2. 4.
0	LIGHT FIXTURE	AS NOTED	1.	<b>\$</b> <sup>4</sup>	FOUR-WAY SWITCH	+46"	2. 4.
0	EGRESS LIGHT FIXTURE	AS NOTED	1.	<b>\$</b> <sup>K</sup>	KEY OPERATED SWITCH	+46"	2. 4.
• <b>• (</b> )	AREA LIGHT POLE AND FIXTURE POST TOP LIGHT POLE AND FIXTURE	CONCRETE BASE	1. 14. SEE DIAGRAM	\$°	SWITCH WITH PILOT LIGHT	+46"	2. 4.
	BOLLARD	CONCRETE BASE	1. 14. SEE DIAGRAM	<b>\$</b> <sup>D</sup>	VARIABLE INTENSITY SWITCH	+46"	2. 4.
	STEP LIGHT FIXTURE	AS NOTED	1.	\$ <sup>TM</sup>	TIMER SWITCH	+46"	2. 4.
0	IN-GRADE LIGHT FIXTURE	CONCRETE BASE	1.	\$	MOMENTARY CONTACT SWITCH	+46"	2. 4.
$\Diamond$	FLOOD OR TRACK FIXTURE	AS NOTED	1.	X	LOW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES CONFIGURATION & CONTROL SEQUENCE)	+46"	2. SEE DIAGRAM, SF
$\otimes$ $\otimes$	CEILING / WALL MOUNTED EXIT LIGHT	CEILING/ AS NOTED	1. 3. 8.		DUAL TECH. CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL PP AND ROOM CONTROLLERS)	CEILING	SEE DIAGRAM
	EMERGENCY LIGHT FIXTURE	AS NOTED	1.	H	DUAL TECH. WALL MOUNTED OCCUPANCY SENSOR (SUBSCIPT D = DIMMING AND DAYLIGHT CONTROL)	+46"	2. 4. SEE DIAGRAM, SF
	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.	P	PHOTO-ELECTRIC CONTROL (LOCATE ON ROOF, FACE NORTH)	AS NOTED	MOUNT AS PER MFR.
TC	TIME CLOCK	+60"	2.		DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM

## LIGHT FIXTURE SCHEDULE

	LIGHT FIXTURE ABBREVIATION SCHEDULE	PROJECT MANAGER: STACY MECHAM
A.F.F. ABOVE FINISH FLOOR WALL@CLG WALL MOUNT AT CORNER OF WALL AND CEILING CCBA CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	SCBA STANDARD PAINTED COLOR AS SELECTED CFBA CUSTOM FINISH AS SELECTED BY THE ARC SFBA STANDARD FINISH AS SELECTED BY THE AR	CHITECT

## LIGHT FIXTURE GENERAL NOTES

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO
- REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPENCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
- REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
- CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
- REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED.
- REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS.
- WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
- PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
- REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).
- VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED

TYPE	DESCRIPTION	MFR.	CATALOG#	VOLTS	TOTAL WATTS	LAMP TYPE	DIMMING TYPE	DELIVERED LUMENS	COLOR TEMP	CRI	ALTERNATE MFR
ODL1	EVO GENERAL ILLUMINATION ROUND DOWNLIGHT 6"	GOTHAM	EVO6 40/05 AR LS MWD MVOLT	120 V	6 VA	LED	0-10V	519	4000 K	80	
OP4A	D-SERIES SIZE 1 LED AREA LUMINAIRE, SINGLE HEAD, P2, TYPE 4 LOW G RATING.	LITHONIA	DSX1 LED P2 40K 80CRI T4LG	120 V	68 VA	LED	0-10V	5,000	4000 K	80	
OP4B	D-SERIES SIZE 1 LED AREA LUMINAIRE, SINGLE HEAD, P3, TYPE 4 LOW G RATING.	LITHONIA	DSX1 LED P3 40K 80CRI T4LG MVOLT RPA	120 V	104 VA	LED	0-10V	5,000	4000 K	80	
OP4C	D-SERIES SIZE 1 LED AREA LUMINAIRE, SINGLE HEAD, P5, TYPE 4 MEDIUM.	LITHONIA	DSX1 LED P5 40K 80CRI T4M MVOLT RPA	120 V	142 VA	LED	0-10V	5,000	4000 K	80	
OW1A	WDGE2 LED ARCHITECTURAL WALL SCONCE, PRECISION REFRACTIVE OPTIC, P1,TYPE 1 SHORT OPTIC	LITHONIA	WDGE2 LED P1 40K 80CRI T1S MVOLT	120 V	11 VA	LED	0-10V	1,215	4000 K	80	
OW1B	WDGE2 LED ARCHITECTURAL WALL SCONCE, PRECISION REFRACTIVE OPTIC, P2,TYPE 1 SHORT OPTIC	LITHONIA	WDGE1 LED P2 40K 80CRI T1S MVOLT	120 V	10 VA	LED	0-10V	1,380	4000 K	80	
OW4A	WDGE2 LED ARCHITECTURAL WALL SCONCE, PRECISION REFRACTIVE OPTIC, PO, TYPE 4 MEDIUM OPTIC	LITHONIA	WDGE2 LED P0 40K 80CRI T4M MVOLT	120 V	7 VA	LED	0-10V	1,215	4000 K	80	
OW4B	WDGE2 LED ARCHITECTURAL WALL SCONCE, PRECISION REFRACTIVE OPTIC, P4,TYPE 4 MEDIUM OPTIC	LITHONIA	WDGE2 LED P4 40K 80CRI T4M MVOLT	120 V	47 VA	LED	0-10V	4,177	4000 K	80	

## **GENERAL NOTES**

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- 10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- I. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR
- 2. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING				
MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE			
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT		
<70	MIN. #12 AWG	MIN. #12 AWG		
70 - 115	MIN. #10 AWG	MIN. #12 AWG		
115 - 170	MIN. #8 AWG	MIN. #10 AWG		
170 - 270	MIN. #6 AWG	MIN. #8 AWG		
271 - 380	NOTE B	MIN. #8 AWG		
>380	NOTE B	NOTE B		

A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.

DESCRIPTION

ABBREV.

- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

## **ABBREVIATIONS INDEX**

710011211	DEGOTAL FIGHT	- 12211211	
#	NUMBER	MH	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BC	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
С	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
CATB	COMMUNITY ANTENNA TELEVISION	PB	PUSHBUTTON
CATV	CABLE TELEVISION	PF	POWER FACTOR
CKT	CIRCUIT	PFR	PHASE FAILURE RELAY
CLG	CEILING	PNL	PANEL
CNTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT	COMPUTER TERMINAL	(R)	RELOCATE
СТ	CURRENT TRANSFORMER	RECEP	RECEPTACLE
CU	COPPER	REQ	REQUIREMENT
C/W	COMPLETE WITH	RLA	RATED LOAD AMPS
DB	DECIBEL	RMP	ROCKY MOUNTAIN POWER
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING	SPEC	SPECIFICATIONS
EC	EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	ТТВ	TELEPHONE TERMINAL BOARD
FT	FOOT	TTC	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UPS	UNINTERRUPTED POWER SUPPLY
· '' HZ	HERTZ	V	VOLT (KV-KILOVOLT)
IFC	INTERNATIONAL FIRE CODE	VA/R	VOLT-AMPS/REACTIVE
IG		VM	VOLT METER
	ISOLATED GROUND		
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
IN	INCH	W/	WITH
J-BOX	JUNCTION BOX	WH	WATTHOUR METER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF
KVAR	KILOVARS	XFMR	TRANSFORMER
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTG	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	Ø	PHASE
		1	1



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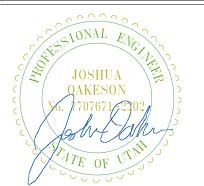




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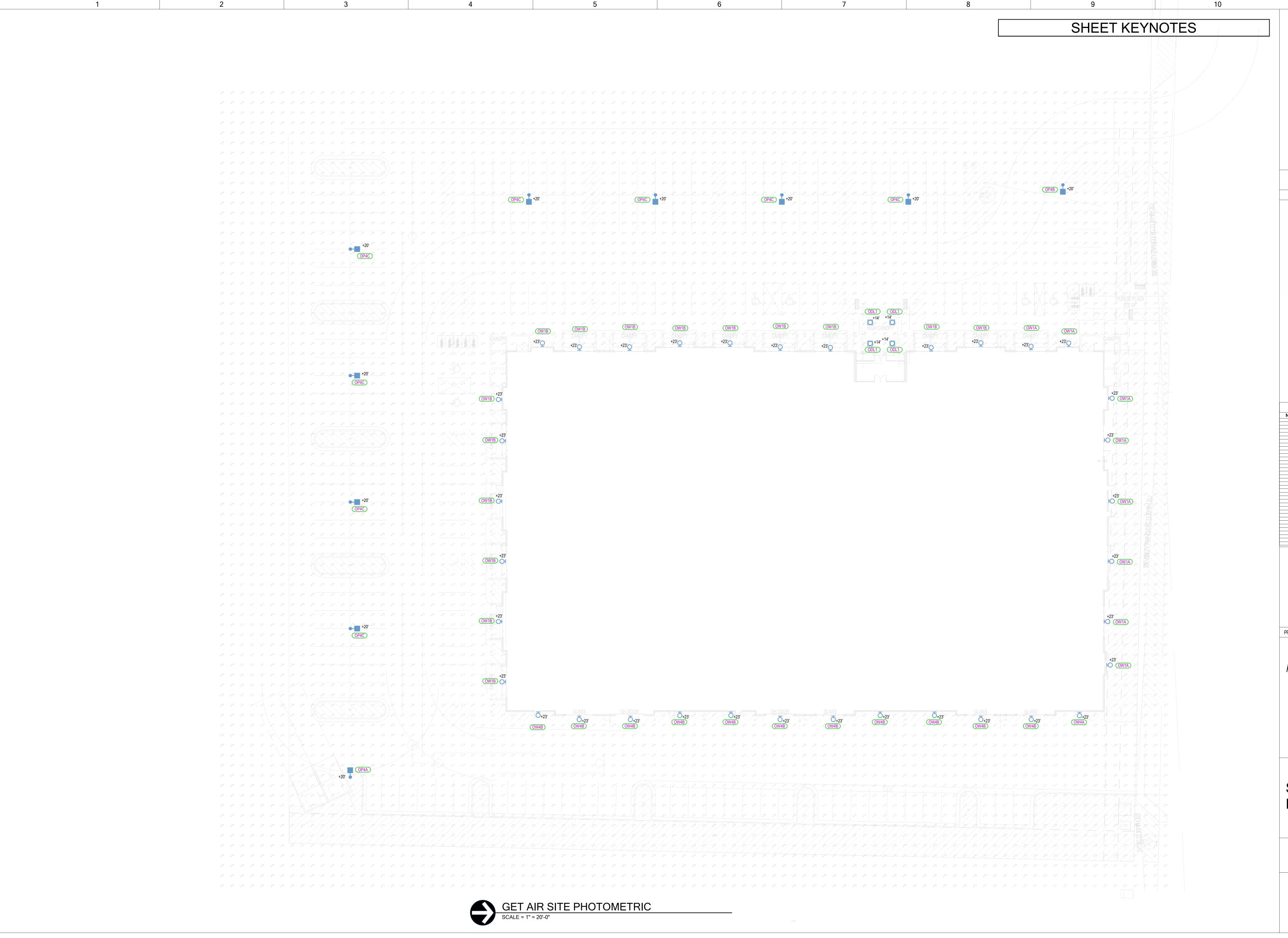


ADDITIONAL LEASE SPACES A

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ELECTRICAL SYMBOLS AND NOTES

PLANNING REVISION JANUARY 20, 2025





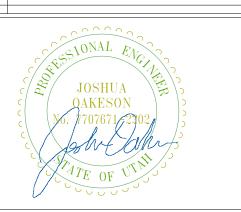
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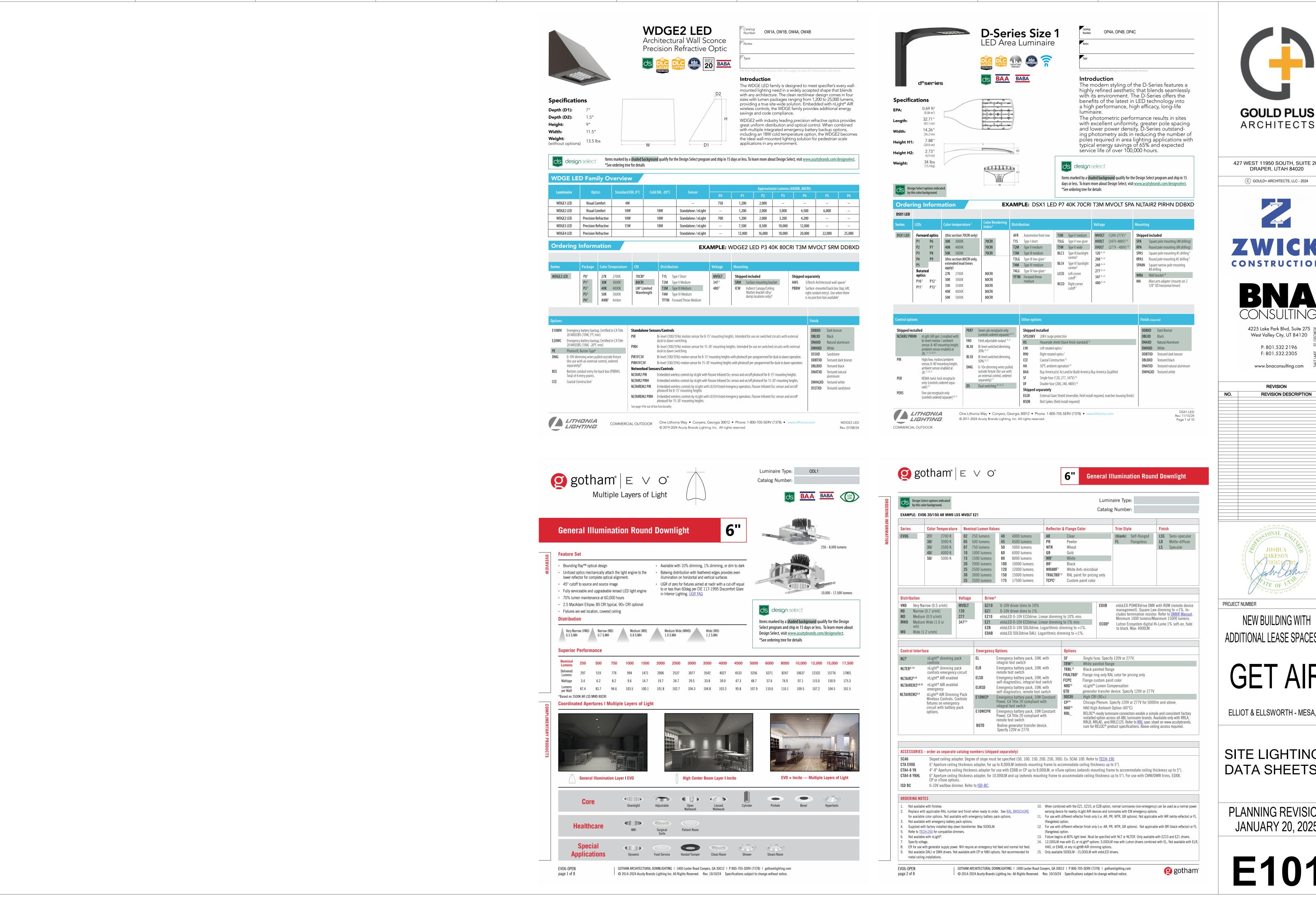
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REVISION DESCRIPTION

NEW BUILDING WITH ADDITIONAL LEASE SPACES AT

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SITE LIGHTING DATA SHEETS

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E101