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september 08, 2025
dtd submittal
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schematic redesign
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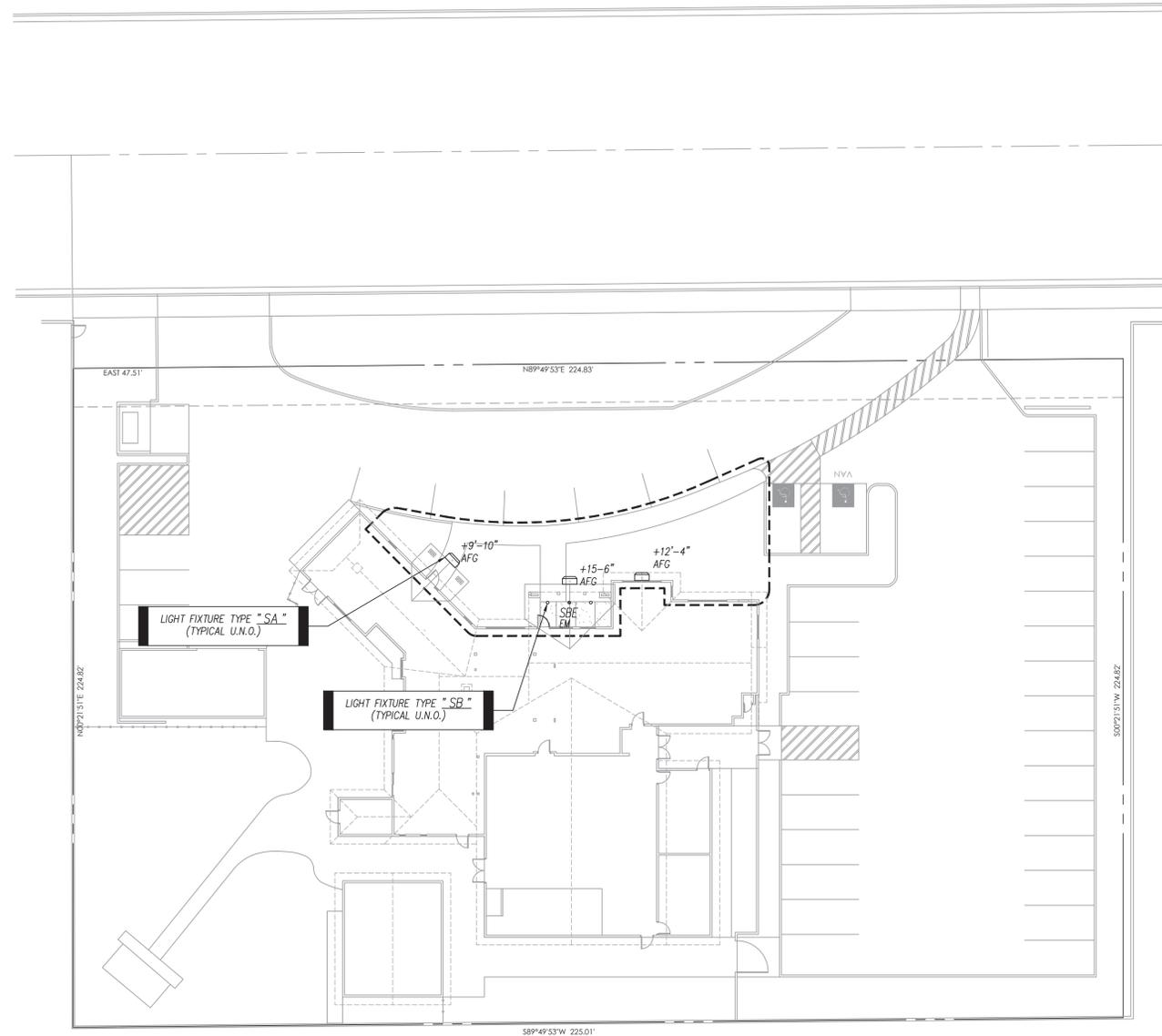
KEYED NOTES	
1	ELECTRICAL CONTRACTOR SHALL PROVIDE CUSTOM FABRICATED LIGHT SHIELD TO EXISTING LIGHTING FIXTURE TO SHIELD TRESPASS INTO NEIGHBORING BACKYARDS.
2	ELECTRICAL CONTRACTOR SHALL DEMO. EXISTING LIGHTING FIXTURE AND RETURN TO OWNER STOCKPILE. CONTRACTOR SHALL RE-USE EXISTING PANEL AND CIRCUIT FOR NEW LIGHTING LOADS AS SHOWN ON PLAN.
3	ELECTRICAL CONTRACTOR SHALL CONNECT NEW LIGHTING FIXTURE TO EXISTING PANEL AND CIRCUIT AND LIGHTING CONTROLS FROM RECENTLY DEMOD LIGHTING FIXTURE.

LIGHT FIXTURE SCHEDULE					
TAG	VOLTS	MANUFACTURER	PART #	LAMPING CCT/WATTS	DESCRIPTION/NOTES
SA	MVOLT	LITHONIA	WDGE2-LED-P4-30K-80CR-13M-DMG-SRM-DBBXD	LED (4065 lumens) 3000K/47W	LED WALL-PACK FIXTURE WITH 0-10V DIMMING DRIVER. VERIFY FINISH AND ALL OPTIONS.
SB/SBE	MVOLT	LITHONIA	LDN8-30/50-L08-AR-LSS-1RW-G21-EL	LED (4951 lumens) 3000K/60W	8" DOWNLIGHT WITH 0-10V DIMMING DRIVER & 90-MINUTE EM. BATT PACK WHERE SHOWN. VERIFY ALL OPTIONS. MOUNT @ 10'-0" AFG.

SCHEDULE NOTES:

- ALL EMERGENCY FIXTURE SHALL PROVIDE MINIMUM OF 90-MINUTE BATTERY BACK-UP, UNLESS A LIFE SAFETY GENERATOR IS PRESENT, THEN CONNECT TO EMERGENCY BACKED CIRCUITING IN THE AREA. IF THE GENERAL LIGHTING IN THE AREA IS HID, ALL FIXTURES IN THE AREA SHALL HAVE A MINIMUM OF A 10-MINUTE TIME DELAY.
- ELECTRICAL CONTRACTOR SHALL PROVIDE A BASE BID OFF THIS LIGHT FIXTURE SCHEDULE. ALTERNATES MAY BE SUBMITTED AFTER AWARD OF CONTRACT, PROVIDING THEY ARE SUBMITTED WITH WRITTEN OWNER APPROVAL AND ITEMIZED DEDUCT FROM THE BASE BID. ANY RE-DESIGN REQUIRED BY AN ALTERNATE PACKAGE SHALL BE BILLED TO THE ELECTRICAL CONTRACTOR.
- MODULAR WIRING IS ACCEPTABLE.
- ALL DIMMED EMERGENCY FIXTURES SHALL BE PROVIDED WITH UL924 SHUNT RELAY DEVICE WHEN NOT PROVIDED INTEGRAL TO LIGHT FIXTURE.
- ALL DIMMED LIGHTING ZONES SHALL HAVE DEDICATED NEUTRAL.

2018 INTERNATIONAL ENERGY CONSERVATION CODE CALCULATIONS				
INTERIOR LIGHTING POWER ALLOWANCE (IECC 405.3.2)				
SPACE TYPE	ALLOWED WATTS			
BASE SITE ALLOWANCE	500 W			
WATTAGE ALLOWED BY IECC	500 WATTS			
FIXTURE TYPE	FIXTURE WATTS	QUANTITY	=	
SA	47 W	X 3	=	141 W
SB/SBE	60 W	X 3	=	180 W
WATTAGE USED	321 WATTS			
WATTAGE ALLOWED BY IECC 405.3.2	500 W			
WATTAGE USED	321 W			
PROJECT COMPLYS BY:	179 WATTS			
DOES PROJECT COMPLY WITH 2018 IECC?	YES			



BRANCH CIRCUIT NOTES:

- ELECTRICAL CONTRACTOR SHALL GROUP CIRCUITS SUCH THAT THERE ARE NO MORE THAN FOUR (4) CIRCUITS IN A HOME RUN.
- ALL BRANCH CIRCUITS AND HOMERUNS THAT CONTAIN TWO (2) OR MORE CURRENT CARRYING CONDUCTORS SHALL HAVE A DEDICATED NEUTRAL PER CIRCUIT. ALL DIMMED LIGHTING ZONE SHALL HAVE A DEDICATED NEUTRAL.
- MINIMUM ACCEPTABLE SIZE FOR BRANCH CIRCUITS IS 1/2" FOR BRANCH CIRCUITS AND 3/4" FOR HOMERUNS.
- ALL CONDUCTORS SHALL BE COPPER AND RATED FOR 600V. THE MINIMUM LINE VOLTAGE CONDUCTOR SIZE SHALL BE #12 AWG COPPER. ALL CONDUCTORS #6 AND SMALLER SHALL HAVE THIN OR THW INSULATION. ALL CONDUCTORS #4 AWG AND LARGER SHALL HAVE XHHW OR XHHW-2 TYPE INSULATION. ALL CONDUCTOR INSULATION SHALL BE RATED FOR 90 DEGREES. ANY 120V BRANCH CIRCUIT OVER 100'-0" SHALL HAVE #10 AWG MINIMUM AND 277V BRANCH CIRCUITS OVER 200'-0" SHALL HAVE #10 AWG MINIMUM.
- ALL CONDUITS SHALL BE INSTALLED IN A NEAT AND ORGANIZED MANNER. CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING LINE. CONDUIT SHALL NOT BE RUN ON EXTERIOR FACES OF THE BUILDING.
- ALL ELECTRICAL INSTALLATIONS SHALL COMPLY WITH THE CURRENT ADOPTED NATIONAL ELECTRIC CODE (NEC), INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL ENERGY CONSERVATION CODE (IECC), ANY LOCAL AND STATE ADOPTED CODES AND ORDINANCES, AND LOCAL UTILITY COMPANY REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE, OPERATIONAL, AND FUNCTIONAL SYSTEM. ANY AND ALL DEVICES, MATERIALS, AND LABOR SHALL BE INCLUDED IN INITIAL BID.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL A COMPLETE ELECTRICAL SYSTEM THAT MEETS THE INTENT OF THESE CONSTRUCTION DOCUMENTS, NOTES, AND SPECIFICATIONS.

GENERAL NOTES:

- ELECTRICAL CONTRACTOR SHALL INSTALL COMPLETE ELECTRICAL SYSTEMS FOLLOWING THE LATEST ADOPTED VERSION OF THE N.E.C.
- ELECTRICAL CONTRACTOR SHALL USE CONNECTORS TO ENTER AND EXIT JUNCTION BOXES.
- ELECTRICAL CONTRACTOR SHALL USE UL LISTED JUNCTION BOX COVERS AND ENSURE THEY ARE ON ALL JUNCTION BOXES. LABEL ALL CIRCUITS WITHIN JUNCTION BOX ON OUTSIDE OF JUNCTION BOX COVER.
- ELECTRICAL CONTRACTOR SHALL USE STRAPS TO SUPPORT CONDUIT AND WIRE PER N.E.C.
- ELECTRICAL CONTRACTOR SHALL ENSURE ALL SPLICES HAVE MECHANICAL CONNECTION. WIRES SHALL BE TWISTED IN A CLOCK-WISE DIRECTION, TRIMMED AND WIRE NUT INSTALLED SO THAT NO BARE COPPER IS EXPOSED. ELECTRICAL CONTRACTOR SHALL ENSURE CONDUIT IS FREE FROM ANY BURRS OR SHARP OBJECTS THAT COULD DAMAGE THE CONDUCTORS INSULATION.
- ELECTRICAL CONTRACTOR SHALL NOT EXCEED 360 DEGREES WORTH OF BENDS IN ANY CONDUIT RUN PER N.E.C.
- ELECTRICAL CONTRACTOR SHALL NOT OVER FILL CONDUITS OR BOXES PER N.E.C.
- ELECTRICAL CONTRACTOR SHALL LABEL ALL RECEPTACLES WITH "P-TOUCH" CLEAR LABELS. PROVIDE PANEL NAME AND CIRCUIT NUMBER. (ie. H1-21, P2A-15, etc.)
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL EXISTING ELECTRICAL CONDITIONS TO MEET CURRENT N.E.C. CODE REQUIREMENTS. (ie. ACCESS PANELS, RELOCATION OF EXISTING EQUIPMENT/ JUNCTION BOXES TO COMPLY WITH "READILY ACCESSIBLE" REQUIREMENTS, etc.)
- ELECTRICAL CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING OF ANY CODE VIOLATIONS WITH INSTALLATION PRIOR TO FINAL INSPECTION.

electrical site lighting plan
scale: 1"=20'-0"

WELCH & SANDON DESIGN LLC, SHALL NOT BE HELD RESPONSIBLE FOR CHANGE ORDERS THAT MAY OCCUR SHOULD FINAL BIDS AND/OR CONSTRUCTION BASED ON THESE DOCUMENT BE STARTED PRIOR TO PERMIT BEING ISSUED BY AHJ.

WELCH & SANDON DESIGN, LLC
ELECTRICAL CONSULTING ENGINEERS

PROJECT CONTACT: GABRIEL
WSD PROJECT#: 25-102

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an exterior remodel
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Expires: 09/30/2026

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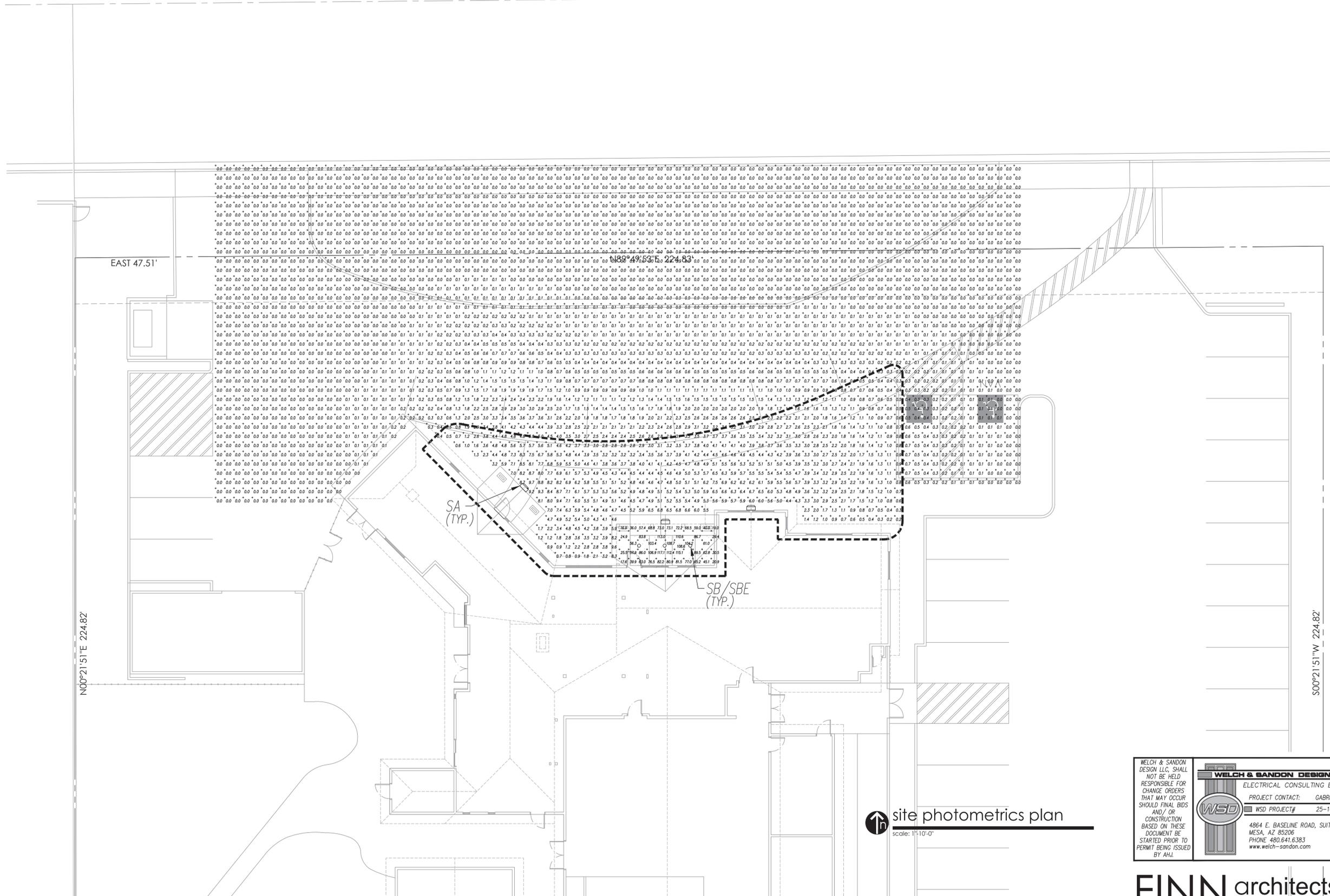
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SCHEDULE			
LABEL	MANUFACTURER	DESCRIPTION	CATALOG
SA	LITHONIA LIGHTING	WIDGE2 LED WITH P4 - PERFORMANCE PACKAGE, 3000K, 80CRI, TYPE 3 MEDIUM OPTIC	WIDGE2 LED P4 30K 80CRI T3M
SB/SBE	LITHONIA LIGHTING	BIN LDN, 3000K, 5000LM, CLEAR, SEMI-SPECULAR REFLECTOR	LDN8 30/50 LOBAR LSS

STATISTICS					
DESCRIPTION	SYMBOL	AVG	MAX	MIN	MAX/MIN
CALC_ZONE #1	+	0.8 FC	9.7 FC	0.0 FC	N/A
CALC_ZONE #2	+	68.8 FC	117.1 FC	16.9 FC	6.9:1
					4:1:1



site photometrics plan
scale: 1/8"=1'-0"

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