

# CITY OF PHOENIX AVIATION DEPARTMENT DESIGN & CONSTRUCTION SERVICES



PROJECT NAME **PSHIA RENTAL CAR LED LIGHT RETROFIT**  
 ADDRESS **PHOENIX SKY HARBOR INTERNATIONAL AIRPORT**  
 PROJECT NUMBER **AV15000073-1**

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KATE GALLEGO

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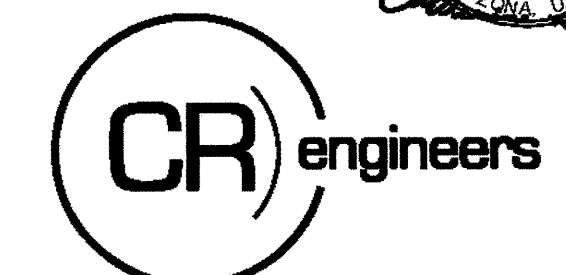
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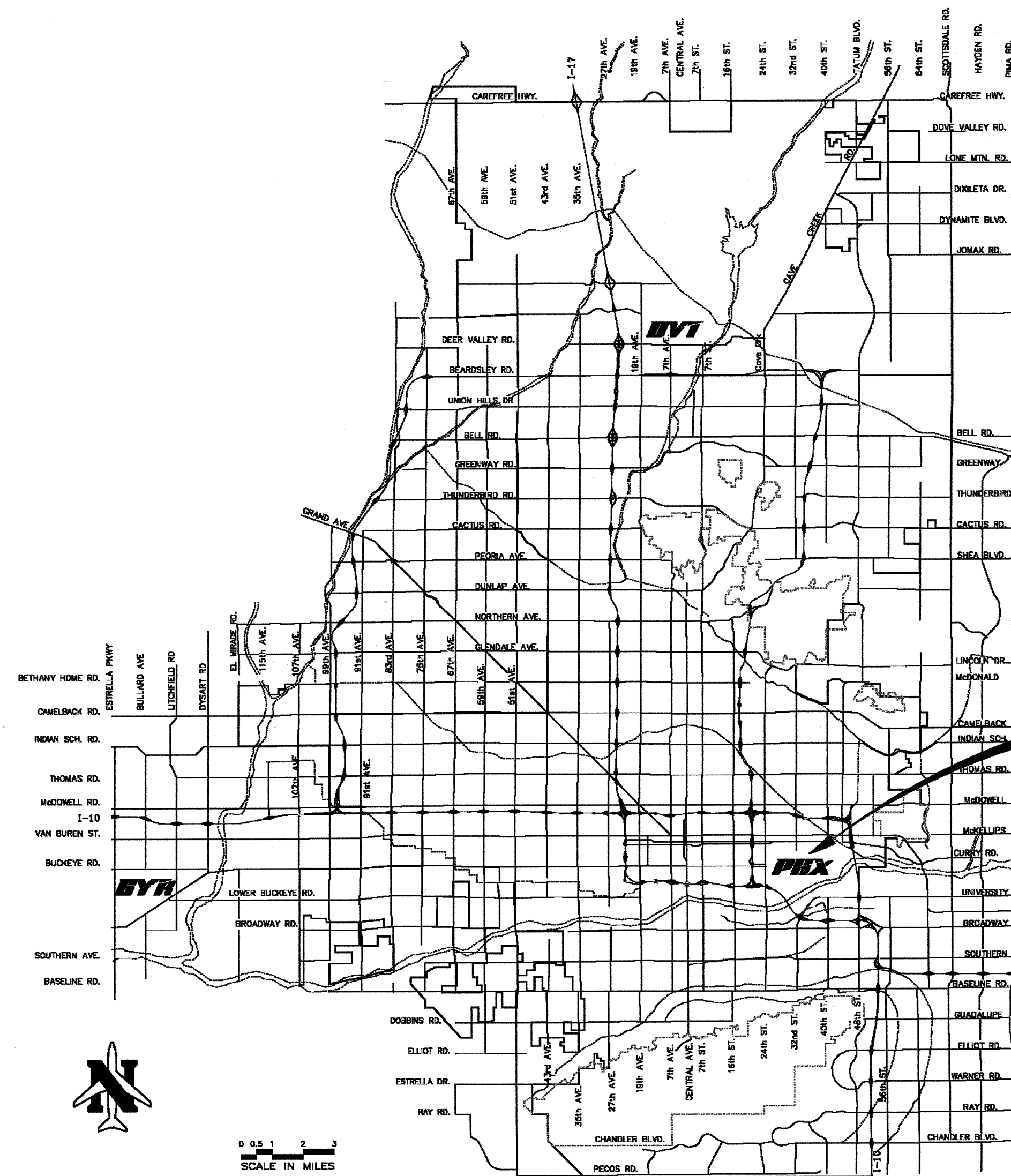
APPROVALS

*Candee Hall*  
DEPUTY AVIATION DIRECTOR  
DESIGN & CONSTRUCTION SERVICES DIVISION

09.16.2023  
DATE



PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.



PHOENIX SKY HARBOR INTERNATIONAL AIRPORT

Vicinity Map

100% SUBMITTAL

AV15000073-1

PHX DVT EYR  
CITY OF PHOENIX AVIATION DEPARTMENT

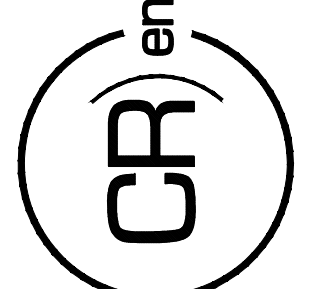

C:\PROJECTS\21000\21009 PHX RCG LED Light Bar\RCG\CAD SHEETS\11095 E00.1 ELECTRICAL DRAWING INDEX.dwg - Dec 20, 2022 2:05pm

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PER CITY OF PHOENIX CITY CODE CHAPTER 23 SECTION 23-38 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

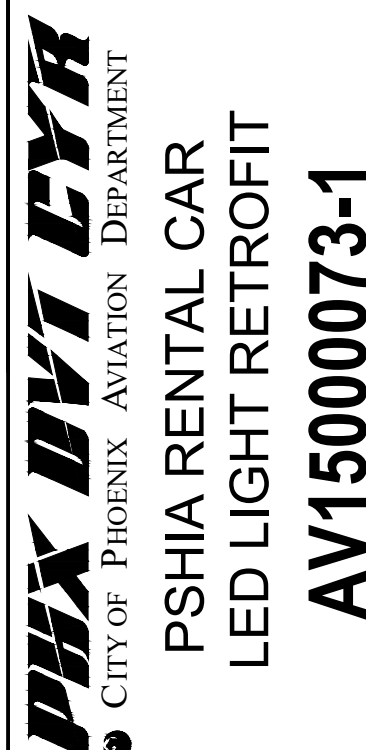
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CONTRACT NO: 144038

NO.	REVISIONS / SUBMISSIONS	DATE



CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: NTS

ELECTRICAL DRAWING INDEX

Sheet Reference Number:  
**E00.1**

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1.0 INTENT

- 1.1 FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
1.2 ALL DRAWINGS ARE SCHEMATIC IN NATURE AND THE REQUIRED INSTALLATION IS NOT LIMITED TO WHAT IS SHOWN. ALL APPURTENANCES NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM MUST BE INCLUDED IN THE CONTRACTORS BID AND WORK.

2.0 GENERAL

- 2.1 THE CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID OR WORK. NO ALLOWANCES WILL BE MADE FOR EXISTING CONDITIONS OR THE CONTRACTORS FAILURE TO ACCOMMODATE EXISTING CONDITIONS ON HIS BID.
2.2 IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN CLARIFICATION OF ANY APPARENT CONFLICT OR INCONSISTENCY IN THE DRAWINGS, SPECIFICATION, OR DESIGN, PRIOR TO HIS BID AND IN WRITING WITH THE ENGINEER. OTHERWISE THE CONTRACTOR ACCEPTS RESPONSIBILITY TO CORRECT (AT HIS COST) ANY SUCH ITEMS TO MEET THE INTENT AS INTERPRETED BY THE ENGINEER.
2.3 ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE MOST RECENT ADOPTED EDITIONS OF THE NFPA, NATIONAL ELECTRIC CODE, IBC, APPLICABLE CITY AND STATE CODES AND ORDINANCES, THE AMERICANS WITH DISABILITIES ACT, E.P.A. REGULATIONS (INCLUDING EPACT 1992), INTERNATIONAL ENERGY CONSERVATION CODE (IECC)/TITLE 24/ASHRAE 90.1 AND UTILITY COMPANY REQUIREMENTS. THE FOREGOING CODES AND REGULATIONS ARE REQUIREMENTS AND ARE INCORPORATED IN THIS SPECIFICATION FOR THIS WORK BY REFERENCE.
2.4 THE CONTRACTOR SHALL COORDINATE AND PROVIDE INFORMATION AS REQUIRED TO ALL SERVING UTILITIES IN A TIMELY MANNER AS NECESSARY TO PROVIDE THE SERVICE REQUIRED AND MEET UTILITY REQUIREMENTS. IMMEDIATE COORDINATION WILL BE REQUIRED FOR MOST PROJECTS. FIELD COORDINATE ALL REQUIREMENTS WITH UTILITY Co. PRIOR TO TRENCHING.
2.5 REFER TO ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, AND/OR EQUIPMENT SUPPLIERS DRAWINGS AND SPECIFICATIONS FOR EXACT EQUIPMENT LOCATIONS, LOADS AND ADDITIONAL REQUIREMENTS. REPRESENTATIONS OF THE WORK SPECIFIC TO THE OTHER DISCIPLINES IS SHOWN ON THE ELECTRICAL DRAWINGS FOR CLARITY ONLY.
2.6 THE CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL EQUIPMENT HE SUPPLIES. ALL EQUIPMENT SHALL BE INSTALLED STRICTLY PER MANUFACTURER'S RECOMMENDATIONS. OTHERWISE THE CONTRACTOR ASSUMES RESPONSIBILITY (AT HIS COST) TO CORRECT AND REMEDY ANY INSTALLATION NOT IN COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INTENTIONS AS INTERPRETED BY THE ENGINEER.
2.7 ANY VARIANCE OR EXCEPTIONS TO THE DRAWINGS AND SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING. INTERIM VERBAL APPROVALS WILL ONLY BE PROVIDED WHEN THE ENGINEER DETERMINES THIS TO BE JUSTIFIED AND MUST BE CONFIRMED IN WRITING TO BE FINAL.
2.8 THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL NECESSARY PERMITS, VARIANCES, AND APPROVALS, ETC. (AT HIS COST) WHICH MAY BE REQUIRED FOR COMPLETION OF THIS WORK.
2.9 PRIOR TO ROUGH-IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL LIGHT FIXTURES AND WIRING DEVICES; TO INCLUDE MOUNTING HEIGHT AND LOCATIONS WITH ARCHITECT/OWNER. ALL CONFLICTS SHALL BE REPORTED TO THE ENGINEER/ARCHITECT.
2.10 THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT AND SUPPORT FOR PROGRESS AND FINAL INSPECTIONS. THIS INCLUDES COMPLETE ACCESS TO ALL EQUIPMENT. ADDITIONALLY A COMPLETE SET OF SPARE FUSES FOR ALL FUSES USED AND A 5% SUPPLY OF ALL LIGHT BULBS PROVIDED IN FIXTURES (TO A MAXIMUM OF 15 FOR EACH STYLE) SHALL BE PROVIDED TO THE OWNER AT FINAL INSPECTION.

2.11 RECONSTRUCTION (TO INCLUDE TENANT IMPROVEMENTS). ALL RECONSTRUCTION OF EXISTING FACILITIES AND EQUIPMENT SHALL REQUIRE COMPLETE RENOVATION (MAKE GOOD AS NEW) FOR ALL EXISTING EQUIPMENT UPON WHICH WORK IS PERFORMED OR EQUIPMENT WHICH IS AFFECTED BY THE WORK PERFORMED. THIS WILL INCLUDE THESE FOLLOWING REQUIREMENTS:

- 2.11.1 VERIFICATION OF EXISTING SES COMPLIANCE WITH NEC "GROUNDING" ARTICLES.
2.11.2 VERIFICATION OF CABLE SIZE AND AMPACITY OF EXISTING FEEDERS AND BRANCH CIRCUITS WITH NEC TABLES.
2.11.3 EXISTING LIGHT FIXTURES TO BE REUSED MUST BE CLEANED, RE-LAMPED, AND RESTORED TO "LIKE NEW" CONDITION.
2.11.4 EXISTING PANEL BOARDS, SWITCH BOARDS, AND TRANSFORMERS WHICH ARE INCLUDED IN THE PROJECT WORK SHALL HAVE PREVENTATIVE MAINTENANCE PERFORMED TO INCLUDE RE-TORQUING OF ALL LUGS, CLEANING AND INSPECTION.
2.11.5 VERIFY PROPER WORKING CONDITION OF ALL EXISTING EMERGENCY FIXTURES AND EXIT SIGNS. REPAIR OR REPLACE AS REQUIRED.

IN THE EVENT THAT INSPECTION REVEALS DISCREPANCIES AND/OR NONCOMPLIANCE THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING, AND EQUIPMENT BROUGHT INTO COMPLIANCE.

- 2.12 ALL PENETRATIONS REQUIRED FOR INSTALLATION OF PENDANT MOUNTED FIXTURES IN GARAGE AND ANY ASSOCIATED CONDUIT / BOX SUPPORTS SHALL HAVE GROUND PENETRATION RADAR (GPR) SCANS COMPLETED PRIOR TO CONSTRUCTION.

3.0 MATERIALS AND METHODS

- 3.1 THE USE OF EMT IS ACCEPTABLE IN ACCORDANCE WITH NEC ARTICLE "ELECTRICAL METALLIC TUBING". EMT SHALL NOT BE USED WHERE IT IS SUBJECT TO SEVERE PHYSICAL DAMAGE. EMT FITTINGS SHALL BE COMPRESSION TYPE. MINIMUM TRADE CONDUIT SIZE IS 1/2" AND 3/4" FOR HOME RUNS.
3.2 CONDUCTORS SHALL BE 600V COPPER (98% CONDUCTIVITY). MINIMUM LINE VOLTAGE WIRE SIZE IS #12 A.W.G. #6 AND SMALLER SHALL HAVE THHN/THHW INSULATION. #4 AND LARGER SHALL HAVE XHHW/XHHW-2 INSULATION. ALL CONDUCTORS SHALL HAVE 90° RATED INSULATION. ALL 120V, 20A BRANCH CIRCUIT CONDUCTORS (#12) OVER 100' IN LENGTH TO BE #10'S MINIMUM. ALL 277V, 20A BRANCH CIRCUIT CONDUCTORS (#12) OVER 200' IN LENGTH TO BE #10'S MINIMUM.
3.3 WHEN SEPARATE BRANCH CIRCUIT NEUTRAL CONDUCTORS ARE USED WITH EACH PHASE CONDUCTOR OR SYSTEMS FURNITURE IS INDICATED, THE MINIMUM NEUTRAL CONDUCTOR SIZE SHALL BE #10 A.W.G. STRANDED COPPER.
3.4 ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE. (MINIMUM 20 AMPS RATED FOR RECEPTACLES AND SWITCHES). HUBBELL, PASS & SEYMOUR, BRYANT, OR LEVITON ARE ACCEPTABLE. ALL SPECIAL RECEPTACLES AND GROUND FAULT PROTECTION DEVICES MUST BE PERMANENTLY MARKED WITH ENGRAVED COVER PLATES. INDICATE USE AND CIRCUIT NUMBER.
3.5 COVER PLATES AND DEVICES SHALL BE PHENOLIC PLASTIC (WHITE OR COLOR SELECTED BY ARCHITECT) IN OFFICE/COMMERCIAL/OR LIVING AREAS, AND GALVANIZED STEEL IN WAREHOUSE/INDUSTRIAL/MANUFACTURING AREAS OR AREAS SUBJECT TO PHYSICAL ABUSE.
3.6 ALL CONDUCTORS TO BE CONCEALED EXCEPT TO SURFACE MOUNTED PANELS AND AT THE CEILING OF EXPOSED STRUCTURE AREAS. CONDUITS WILL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
3.7 FLEXIBLE METAL CONDUIT (SEAL TITE FOR EXTERIOR APPLICATIONS) SHALL BE USED FOR CONNECTIONS TO EQUIPMENT SUBJECT TO VIBRATION (E.G. MOTORS) WITH A MAXIMUM OF 6 FEET.
3.8 THE USE OF MC CABLE IS ACCEPTABLE (UPON OWNER NOTIFICATION AND APPROVAL) AND MAY BE USED IN ACCORDANCE WITH NEC ARTICLE "METAL-CLAD CABLE: TYPE MC", BUT LIMITED TO USE FOR CONCEALED BRANCH ONLY. ADDITIONALLY, MC CABLE MAY NOT BE USED FOR HOME RUNS OR OUTDOORS.
3.9 NON-METALLIC CONDUIT (MIN. SCHEDULE 40) MAY BE USED ONLY IN OR UNDER SLABS & IN CONCRETE OR MASONRY WALLS. MIN. 24" COVER REQUIRED FOR UNDERGROUND USE.
3.10 FUSES SHALL BE BUSSMAN, LITTLEFUSE, OR GOULD SHAWMUT.
3.11 CONDUCTORS WILL BE SOLID AND/OR STRANDED WITH INSULATION CONTINUOUSLY COLOR COATED UP TO AND INCLUDING SIZE #6 A.W.G. GROUNDING/BONDING CONDUCTORS SHALL BE U.L. LABELED ROPE STRAND.
3.12 CONNECTIONS OR SPLICES SHALL BE EXOTHERMIC WELD (CAD WELD OR THOMAS AND BETTS FURSEWELD) FOR GROUNDING/BONDING CONDUCTORS.
3.13 NEW CONDUCTORS SHALL BE CONTINUOUS. HYDRAULIC CRIMP SPLICES OR CONNECTIONS ARE EXCEPTIONS AND REQUIRE SPECIFIC APPROVAL IN WRITING BY CR ENGINEERS.
3.14 ALL CONDUIT SUPPORT SYSTEMS SHALL BE INSTALLED ON THE BUILDING STRUCTURE. UNISTRUT, BEELINE, SUPERSTRUT STEEL CITY SPRING STEEL FASTENERS OR CADDY MOUNTING SYSTEMS ARE ACCEPTABLE. NO CONDUIT WILL BE SUPPORTED BY THE CEILING WIRES, TIE WIRE OR GRID SYSTEM. PERFORATED STRAPS OR OTHER PIPING AND CONDUIT STRAPS ARE NOT ACCEPTABLE SUPPORTS.
3.15 ACCEPTABLE MANUFACTURES FOR SWITCH GEAR, DISTRIBUTION GEAR, AND RELATED COMPONENTS ARE: DISTRIBUTION GEAR SQUARE D, ACME TRANSFORMERS, GENERAL ELECTRIC, SIEMENS, HPS, AND CUTLER-HAMMER.
3.16 CONDUCTORS SHALL BE COLOR CODED FOR BRANCH CIRCUITS AND PHASE LEGS OF FEEDERS TO PANEL BOARDS, SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC AND LOCAL MUNICIPAL REQUIREMENTS. SPECIFIC REQUIREMENTS INCLUDE THE FOLLOWING:

- 120-V, 2-WIRE CIRCUIT: GROUNDED NEUTRAL-WHITE; UNGROUNDED LEG-BLACK.
208Y/120-V, 3-PHASE, 4-WIRE: GROUNDED NEUTRAL-WHITE; PHASE A-BLACK; PHASE B-RED; PHASE C-BLUE.
240/120-V, 3 WIRE, SINGLE PHASE CIRCUIT: GROUNDED NEUTRAL-WHITE; PHASE A-BLACK; PHASE B-RED.
240-V DELTA, 3-PHASE, 3-WIRE: PHASE A-BLACK; PHASE B-RED; PHASE C-BLUE.
240/120-V, 3-PHASE, 4-WIRE, HIGH-LEG DELTA: GROUNDED NEUTRAL-WHITE; HIGH LEG (208-V TO NEUTRAL)-ORANGE; PHASE A-BLACK; PHASE C-BLUE.
480Y/277-V, 3-PHASE, 4-WIRE: GROUNDED NEUTRAL-GRAY; PHASE A-BROWN; PHASE B-ORANGE; PHASE C-YELLOW.
480-V DELTA, 3-PHASE, 3-WIRE: PHASE A-BROWN; PHASE B-ORANGE; PHASE C-YELLOW.
480-V DELTA, 3-PHASE, 3-WIRE: PHASE A-BROWN; PHASE B-ORANGE; PHASE C-YELLOW.
EQUIPMENT GROUNDING CONDUCTORS-GREEN; ISOLATED GROUNDS-GREEN WITH A YELLOW STRIPE.

SECTION 3.0 CONTINUED.....

- 3.17 ALL INSTALLATIONS WITHIN PLENUM RATED CEILING SPACE SHALL BE IN ACCORDANCE WITH NEC ARTICLE "WIRING METHODS" WITH REGARDS TO SMOKE DEVELOPMENT AND FLAME SPREAD.
3.18 ALL UNDERGROUND CABLE, PIPE AND CONDUITS SHALL BE DETECTABLE (METALLIC) OR HAVE A DETECTABLE UNDERGROUND LOCATION DEVICE INSTALLED WITH IT. THE RECOMMENDED DETECTABLE UNDERGROUND LOCATION DEVICE IS A #18 OR LARGER COPPER TRACER WIRE SECURELY ATTACHED TO THE TOP OF ANY NON-METALLIC CABLE, PIPE OR CONDUIT AT 8'-0" O/C AND SHALL HAVE A MINIMUM OF 12" OF TRACER WIRE ACCESSIBLE AT ALL ABOVE GRADE TERMINATIONS.
3.19 ALL HORIZONTAL UNDERGROUND CONDUIT RUNS (INCLUDING UNDER CONCRETE SLABS) SHALL BE A MINIMUM OF 24" BELOW GRADE.
3.20 ALL MATERIAL AND DEVICES USED EXTERIOR OF THE BUILDING SHALL BE LISTED U.L. FOR WATERPROOF APPLICATIONS.

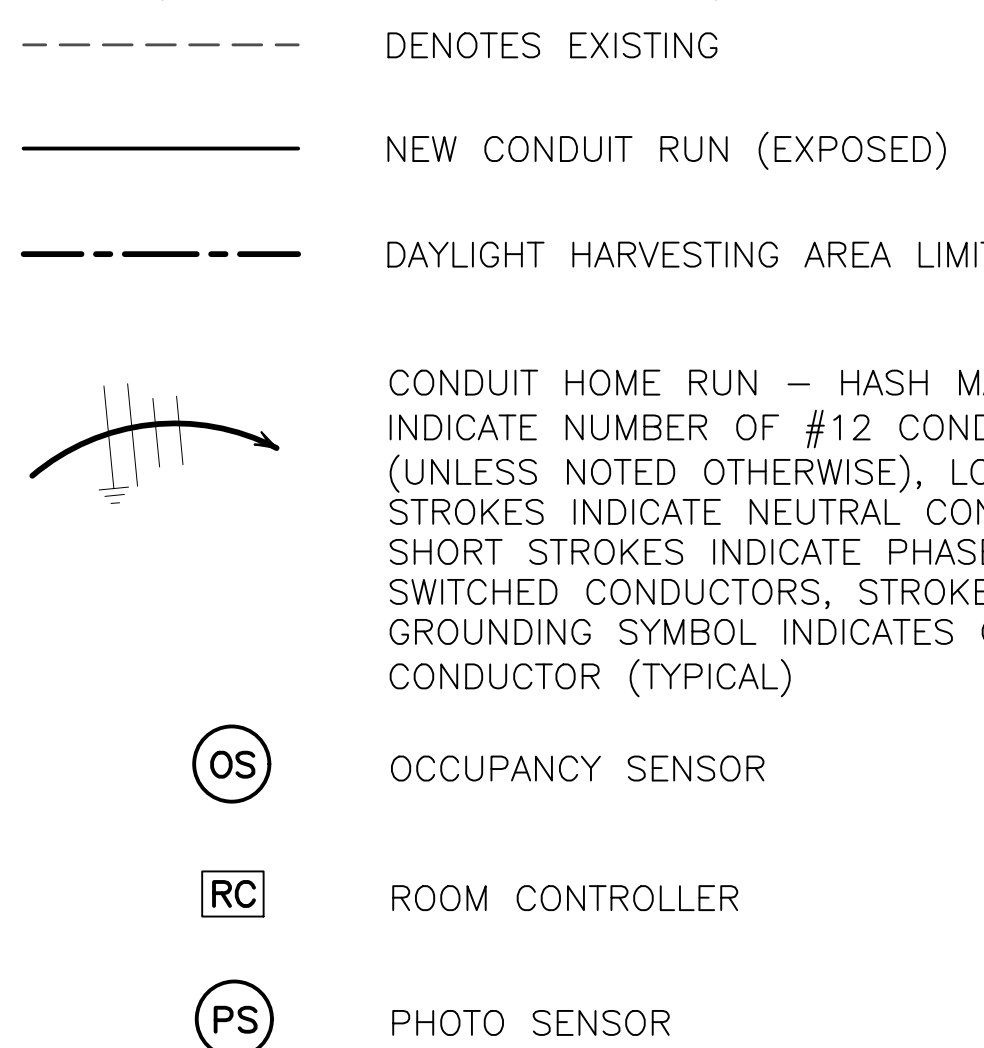
4.0 SUBMITTALS

- 4.1 SUBMIT SIX (6) SETS OF SHOP DRAWINGS AND SAMPLES FOR ALL EQUIPMENT PRIOR TO ORDERING IN A TIMELY MANNER. SUBMITTALS SHALL INCLUDE LIGHT FIXTURES (INCLUDING LIGHT POLES), LIGHTING CONTROLS, SWITCHBOARDS, PANELBOARDS, BREAKERS, STARTERS, HVAC ELECTRICAL EQUIPMENT AND TRANSFORMERS.
4.1.1 SHOP DRAWINGS SHALL INCLUDE LAYOUT DIMENSIONS AND IDENTIFICATION OF SPECIFIC EQUIPMENT FOR INSTALLATION. MINIMUM NEC CLEARANCES SHALL BE INDICATED.
4.1.2 THE CONTRACTOR SHALL INCLUDE COMPARISON DATA AND SAMPLES FOR BOTH THE SUBSTITUTE AND SPECIFIED ITEMS WHEN SUBSTITUTIONS ARE PROPOSED. THE CONTRACTOR REMAINS RESPONSIBLE TO PROVIDE THE ORIGINALLY SPECIFIED INSTALLATION IN ACCORDANCE WITH THE ORIGINAL DELIVERY DATE (AT HIS COST) WHEN SUBSTITUTIONS ARE NOT APPROVED.
4.2 THE CONTRACTOR SHALL PROVIDE PROOF OF PERFORMANCE BOND WITH HIS INITIAL SUBMITTALS (E.G. SHOP DRAWINGS) TO INCLUDE WARRANTY FOR THE WARRANTY PERIOD (TWO YEARS).
4.3 THE CONTRACTOR SHALL SUBMIT COMPLETE AND ACCURATE "AS BUILT" DRAWINGS TO THE OWNER AND ENGINEER WITHIN TWO (2) WEEKS OF OWNER ACCEPTANCE. PROVIDE FOUR (4) SETS OF BLUELINES OR REPRODUCIBLES. FAILURE TO COMPLY WILL RESULT IN WITHHOLDING OF PAYMENTS DUE, AND ASSESSMENT OF CHARGES (AGAINST THE CONTRACTOR) FOR AS-BUILT DEVELOPMENT BY THE ENGINEER AT THE CURRENT HOURLY RATE.
4.4 PROVIDE A LETTER TO THE OWNER AND ENGINEER CERTIFYING ALL EQUIPMENT AND TERMINATIONS ARE PROPERLY TORQUED. THIS CERTIFICATION SHALL BE EXECUTED BY A LICENSED CONTRACTOR, AND WRITTEN CERTIFICATION PROVIDED ON COMPANY LETTERHEAD.
4.5 PROVIDE TWO (2) COPIES OF ALL MANUFACTURER/SUPPLIER WARRANTIES AND GUARANTEES TO THE OWNER WITHIN TWO (2) WEEKS OF FINAL ACCEPTANCE BY THE OWNER.

5.0 WARRANTY

- 5.1 THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND/OR WORKMANSHIP FURNISHED BY HIM UNDER THIS CONTRACT FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER. ANY DEFECTS DEVELOPING DURING THE WARRANTY PERIOD TRACEABLE TO MATERIALS OR WORKMANSHIP SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
5.2 THE OWNER RETAINS THE RIGHT TO REQUIRE REMOVAL AND INSTALLATION (AT ANY TIME) OF ANY MATERIAL OR EQUIPMENT NOT IN COMPLIANCE WITH THE PROVISIONS AND STANDARDS OF THESE DRAWINGS AND SPECIFICATIONS. NO CLAIM FOR ADDITIONAL COMPENSATION WILL BE ALLOWED FOR WORK PERFORMED IN THIS REGARD.
5.3 THE CONTRACTOR AGREES TO TRANSFER ALL MANUFACTURER'S/SUPPLIER'S WARRANTIES AND GUARANTEES TO THE OWNER. THIS INCLUDES COMPLETION OF ALL DOCUMENTATION FOR THE MANUFACTURER/SUPPLIER.

ELECTRICAL STANDARD LEGEND (NOT ALL SYMBOLS ARE USED)



ELECTRICAL ABBREVIATIONS

Table listing electrical abbreviations: A AMP, AIC AMP INTERRUPTING CAPACITIES, AMP AMPERE, ATS AUTOMATIC TRANSFER SWITCH, BKR BREAKER, C CONDUIT, CB CIRCUIT BREAKER, CKT CIRCUIT, CSB CUSTOMER SERVICE BUILDING, CU COPPER, EMT ELECTRICAL METALLIC TUBING, GND GROUND, GPR GROUND PENETRATING RADAR, GRS GALVANIZED RIGID STEEL CONDUIT, JB JUNCTION BOX, LBS POUNDS, MAX MAXIMUM, MIN MINIMUM, NTS NOT TO SCALE, PB PULLBOX, PNL PANEL, REQ'D REQUIRED, SCA SHORT CIRCUIT AVAILABLE, SES SERVICE ENTRANCE SECTION, SLD SINGLE LINE DIAGRAM, TYP TYPICAL, UNO UNLESS NOTED OTHERWISE, UPS UNINTERRUPTED POWER SUPPLY, V VOLT, VA VOLT-AMP, WP WEATHERPROOF

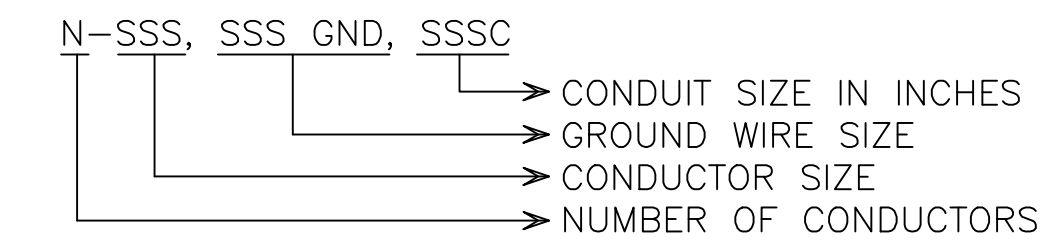
6.0 SERVICE

EXISTING

7.0 DISTRIBUTION

- 7.1 PANELBOARDS (EXISTING): ADD CIRCUIT BREAKERS (FULL-SIZED BREAKERS) AS REQUIRED FOR CIRCUITING. MATCH PRECISELY BRAND AND PROVIDE A.I.C. RATING AS INDICATED ON DRAWINGS. TANDEM AND PICKY-BACK BREAKERS ARE NOT PERMITTED. ALL LUGS OR CONNECTORS TO BE 60°C FOR PANEL LESS THAN OR EQUAL 100 AMPS AND 75°C RATED OF GREATER THAN 100AMPS MINIMUM.
7.2 CIRCUIT BREAKERS WILL BE SWITCH-RATED AND AMBIENT COMPENSATED FOR ALL CIRCUITS. PROVIDE SWITCHED NEUTRALS ON ALL CIRCUIT BREAKERS FEEDING CLASS 1 AND CLASS 2 AREAS WITH NEUTRALS. GFCI ON CIRCUITS WITH NEUTRALS TO DEVICES ABOVE CLASSIFIED AREAS. ALL LIGHTING PANELS/CIRCUIT BREAKERS SHALL BE RATED FOR CONTINUOUS DUTY. HACR RATED BREAKERS SHALL BE INSTALLED FOR ALL HVAC CIRCUITS CONTAINING MULTIPLE MOTOR LOADS.
7.3 ALL EQUIPMENT (PANELS, DISCONNECT SWITCHES, STARTERS, ETC.) WILL BE MARKED WITH BLACK OR RED ENGRAVERS STOCK TAGS EMBOSSED WITH 1/4" HIGH LETTERS DESCRIBING EACH ITEM. CONDUCTORS WILL BE MARKED AT ALL TERMINATION AND JUNCTION POINTS (PANELS, JUNCTION BOXES, SPLICES, ETC.) WITH LABELS BEARING THE PANEL AND CIRCUIT NUMBER WHICH FEEDS EACH CONDUCTOR (PER NEC 210.4, 300.3).
7.4 ALL PANELBOARDS SHALL HAVE TYPED DIRECTORY CARDS IDENTIFYING ALL CIRCUITS AND SPACES.
7.5 ACCEPTABLE MANUFACTURERS FOR PANELBOARDS, SWITCHBOARDS, AND TRANSFORMERS SHALL BE PER SECTION 3.15 OF THIS SPECIFICATION. TRANSFORMERS 15KVA AND ABOVE SHALL BE 150°C TEMPERATURE RISE ABOVE 40°C AMBIENT. ALL INSULATING MATERIALS TO BE IN ACCORDANCE WITH NEMA ST20-1972 STANDARDS FOR A 220°C UL COMPONENT RECOGNIZED INSULATION SYSTEM. SINGLE PHASE TRANSFORMERS 15 KVA THROUGH 50 KVA, AND THREE PHASE TRANSFORMERS THROUGH 45 KVA SHALL BE DESIGNED SO THEY CAN BE EITHER FLOOR OR WALL MOUNTED. THE TRANSFORMER SHALL BE LISTED BY UNDERWRITERS LABORATORY FOR SPECIFIED TEMPERATURE RISE. TRANSFORMERS 75 KVA AND ABOVE SHALL BE DESIGNED FOR FLOOR INSTALLATION ONLY UNLESS NOTED OTHERWISE.
7.6 LABEL ALL PANELS/TRANSFORMERS/DISCONNECTS WITH: "WARNING"- ELECTRICAL EQUIPMENT - DANGER - QUALIFIED PERSONNEL ONLY TO OPERATE ON OPEN EQUIPMENT.
7.7 DISCONNECT SWITCHES WILL BE COMMERCIAL-DUTY, QUICK-MAKE, QUICK-BREAK, HORSEPOWER RATED, NEMA 1 INDOOR, NEMA 3R GASKETED, (4X) NEMA 12, OR NEMA 7 AS APPLICABLE WITH FUSES PER DRAWING.

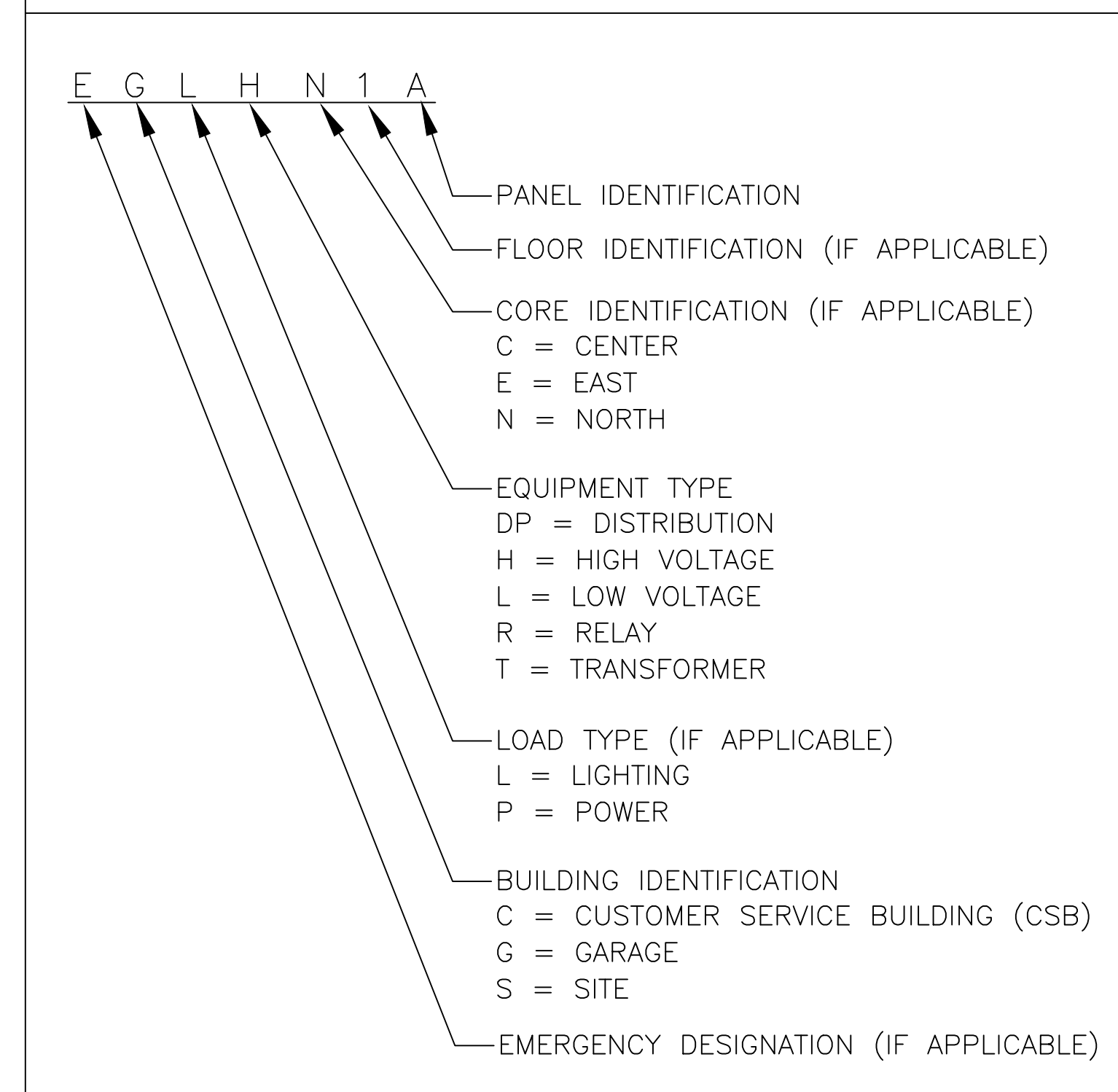
CONDUIT AND WIRE KEY



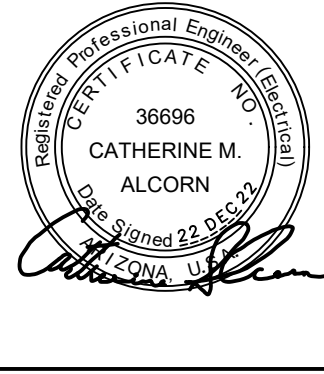
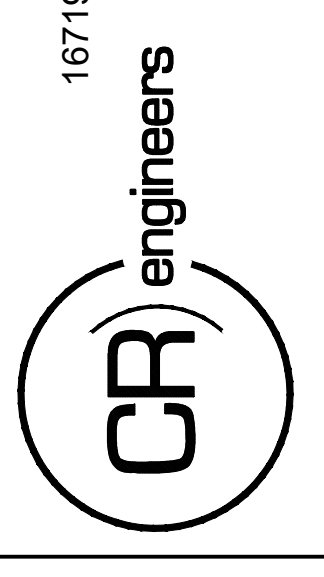
EXAMPLE 1: 3-2/0, #6 GND, 2" CONDUIT. THREE 2/0 CONDUCTORS, ONE No.6 AWG GROUND WIRE IN A 2" CONDUIT

EXAMPLE 2: 4C-1/0, 1" CONDUIT. FOUR CONDUCTOR CABLE WITH 1/0 CONDUCTORS IN A 1" CONDUIT

ELECTRICAL EQUIPMENT TAG LEGEND



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KIVA NO: SDEV NO: CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

Table with columns for REVISIONS / SUBMISSIONS and DATE.

PHX DVI EYE CITY OF PHOENIX AVIATION DEPARTMENT PSHIA RENTAL CAR LED LIGHT RETROFIT AV1500073-1

Designed by: RD Drawn by: JBW Checked by: CA Date: 12/22/2022 Dwg scale: NTS

ELECTRICAL LEGEND AND NOTES

Sheet Reference Number: E00.2



	<b>CY</b>	HUBBELL OR EQUAL	VTC 5K G U	277	LED 40K/80 27	SURFACE	VAPORTITE
	<b>CAA</b>	PRESCOLITE OR EQUAL	MD8LED-8L-40K-8-8MD-8L-(NXW)	277	LED 40K/85 125	SURFACE	8" DOWN LIGHT
	<b>CAB</b>	VISCOR OR EQUAL	LCCMN-48-LED-8-40K-040L-UNV-P95-(NXW)	277	LED 40K/80 35	SURFACE	MINI STRIP (REFER TO PLAN SHEET FOR ADDITIONAL INFORMATION REGARDING LAMP AND FIXTURE REPLACEMENT)
	<b>CAC</b>	NULITE OR EQUAL	RW6 6D 06 L35-(NXW)	277	LED 40K/80 33.2	SURFACE	WALL MOUNTED LINEAR (REFER TO PLAN SHEET FOR ADDITIONAL INFORMATION REGARDING LAMP AND FIXTURE REPLACEMENT)
	<b>CAD</b>	FINELITE OR EQUAL	S17-LED VCF-P-4-V-8-35-277-SC	277	LED 40K/80 28.4	SURFACE	WALL MOUNTED LINEAR (REFER TO PLAN SHEET FOR ADDITIONAL INFORMATION REGARDING LAMP AND FIXTURE REPLACEMENT)
	<b>GA</b>	KIM OR EQUAL	PLG8-5R-128L-85-4K8-UNV-WHS-PB22-WIRSC MOD BTSMP-LMO	277	LED 40K/80 80	PENDANT	FIXTURE SHALL BE PROVIDED WITH 10 YEAR WARRANTY
	<b>GA1</b>	KIM OR EQUAL	PLG8-5R-128L-85-4K8-UNV-WHS-PB22-WIR	277	LED 40K/80 80	PENDANT	FIXTURE SHALL BE PROVIDED WITH 10 YEAR WARRANTY
	<b>GB</b>	KIM OR EQUAL	PLG8-5R-128L-85-4K8-UNV-WHS-PB22-WIR	277	LED 40K/80 80	PENDANT	FIXTURE ON EMERGENCY CIRCUIT AND SHALL BE PROVIDED WITH 10 YEAR WARRANTY
	<b>GJ</b>	PARAMOUNT OR EQUAL	PMVR10SH-UNV-4K-CRI85-21L-BRE-LD-TPS (WIR-RMI-IO)	277	LED 40K/80 7.7	RECESSED	CAVITY WALL
	<b>GK</b>	PARAMOUNT OR EQUAL	PMVR10SO-UNV-4K-CRI85-31L-BRE-LD-TPS-(WIR-RMI-IO)	277	LED 40K/80 43	RECESSED	CAVITY WALL
	<b>GM</b>	COLUMBIA OR EQUAL	MPS-4-40-LW-E-U-LCWG4	277	LED 40K/80 25	SURFACE	SURFACE OR SUSPENDED 4'
	<b>GN</b>	PARAMOUNT OR EQUAL	PMVR10SO-UNV-4K-CRI85-31L-WHE-LD-TPS-(WIR-RMI-IO)	277	LED 40K/82 40	CEILING	WALL/CEILING MOUNT
	<b>GQ</b>	INSIGHT OR EQUAL	D2-200W-40K-SM-UNV-DIM-*IP66-(WIR-RMI-IO)	277	LED 40K/80 254	WALL	ROUND 9.0
	<b>GR</b>	INSIGHT OR EQUAL	D2-200W-40K-SM-UNV-DIM-*IP66-(WIR-RMI-IO)	277	LED 40K/80 254	WALL	ROUND 9.0
	<b>GT</b>	PARAMOUNT OR EQUAL	PMVR10SH-UNV-4K-CRI85-x-BRE-LD-TPS-CST220805 (WIR-RMI-IO)	277	LED 40K/80 7.7	RECESSED	CAVITY WALL
	<b>GU</b>	PARAMOUNT OR EQUAL	PMVR10SO-UNV-4K-CRI85-31L-WHE-LD-TPS-(WIR-RMI-IO)	277	LED 40K/82 40	CEILING	WALL/CEILING MOUNT
	<b>SA</b>	WEEF OR EQUAL	PFL540-LED-660-4422-(WIR-RME-L)	277	LED 40K/75 109	POLE	TYPE III MEDIUM, CONTRACTOR SHALL FIELD
	<b>SB</b>	WEEF OR EQUAL	PFL540-LED-660-4422-(WIR-RME-L)	277	2-LED 40K/75 218	POLE	TYPE III MEDIUM, CONTRACTOR SHALL FIELD
	<b>SC</b>	WEEF OR EQUAL	PFL540-LED-660-4421-(WIR-RME-L)	277	LED 40K/80 81	POLE	
	<b>SD</b>	KIM OR EQUAL	PLG8-5R-128L-35-4K8-UNV-WHS-PB22-WIRSC MOD BTSMP-LMO	277	LED 40K/80 67	PENDANT	PENDANT
	<b>SF</b>	PARAMOUNT OR EQUAL	PMVR10SH-UNV-4K-CRI85-x-BRE-LD-TPS-CST220805 (WIR-RMI-IO)	277	LED 40K/80 7.7	WALL	CAVITY WALL
	<b>SH</b>	HUBBELL OR EQUAL	LSQ2-55-4K7-UNV-WH	277	LED 40K/70 55	SURFACE	
	<b>SJ</b>	SECURITY LIGHTING CIP OR EQUAL	CLED-HL-7-UNV-S-4-WH-MP GTE3501E-150W-196X2W-G4000K-CDV-AC100-277V	277	LED 51K/73 123	SURFACE	

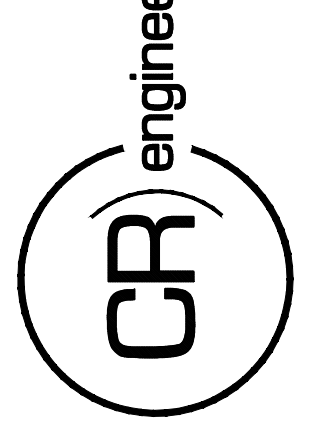
	<b>SK</b>	SECURITY LIGHTING CIP OR EQUAL	CLED-LL-7-UNV-S-4-WH-MP GTE3501E-150W-196X2W-G4000K-CDV-AC100-277V-(WIR-RMI-IO)	277	LED 40K/73 33	SURFACE	SQUARE SURFACE MOUNT LED CANOPY FIXTURE
	<b>CC</b>	TMS LIGHTING OR EQUAL	SWW1-15LED-40K-120-X-G1	277	LED 40K/80 15	WALL	
	<b>TH</b>	COLUMBIA OR EQUAL	LCAT22-40LWG-ED	277	LED 40K/80	WALL	2'x2' VOLUMETRIC RECESSED TROFFER WITH DIMMING DRIVER
	<b>TC</b>	COLUMBIA OR EQUAL	LJT 14-40 XW G-F5 A12125-E	277	LED 40K/80	WALL	1x4 RECESSED (REFER TO PLAN SHEET FOR ADDITIONAL INFORMATION REGARDING LAMP AND FIXTURE REPLACEMENT)
	<b>TK</b>	VISCOR OR EQUAL	LHBL-48-LED-8-40K-080L-UNV/KIT00001	277	LED 40K/80	WALL	1'x4' LINEAR STRIP WITH 0-60 DEGREE BEAM SPREAD AND ANODIZED MIRO 5 REFLECTOR AND DIMMING DRIVER (REFER TO PLAN SHEET FOR ADDITIONAL INFORMATION REGARDING LAMP AND FIXTURE REPLACEMENT)
	<b>AA</b>	VISCOR OR EQUAL	LHBL-48-LED-8-40K-080L-UNV/KIT00001	277	LED 40K/80 75	SURFACE	1'x4' LINEAR STRIP WITH 0-60 DEGREE BEAM SPREAD AND ANODIZED MIRO 5 REFLECTOR AND DIMMING DRIVER (REFER TO PLAN SHEET FOR ADDITIONAL INFORMATION REGARDING LAMP AND FIXTURE REPLACEMENT)
	<b>AB</b>	VISCOR OR EQUAL	LHBL-48-LED-8-40K-040L-UNV / KIT00001	277	LED 40K/80 29	SURFACE	1'x4' LINEAR STRIP WITH 0-60 DEGREE BEAM SPREAD AND ANODIZED MIRO 5 REFLECTOR AND DIMMING DRIVER (REFER TO PLAN SHEET FOR ADDITIONAL INFORMATION REGARDING LAMP
	<b>AC</b>	COLUMBIA OR EQUAL	LCAT22-40LWG-ED	277	LED 40K/80 17.5	RECESSED	2'x2' VOLUMETRIC RECESSED TROFFER WITH DIMMING DRIVER
	<b>AD</b>	COLUMBIA OR EQUAL	LCAT22-40LWG-ED-ELL14	277	LED 40K/80 17.5	RECESSED	2'x2' VOLUMETRIC RECESSED TROFFER WITH DIMMING DRIVER - EMERGENCY FIXTURE WITH EMERGENCY BATTERY PACK INSTALLED. 1400 LUMENS
	<b>AE</b>	COLUMBIA OR EQUAL	LJT 14-40 XW G-F5 A12125-E	277	LED 40K/80 20	RECESSED	1x4 RECESSED (REFER TO PLAN SHEET FOR ADDITIONAL INFORMATION REGARDING LAMP AND FIXTURE REPLACEMENT)
	<b>AF</b>	ALPHABET OR EQUAL	NU6 RD XTM19 50LM 35K	277	LED 40K/80 56	RECESSED	6" RECESSED DOWN LIGHT
	<b>AG</b>	NULITE OR EQUAL	RW6 6D 06 L35	277	LED 40K/80 33.2	SURFACE	WALL MOUNTED LINEAR (REFER TO PLAN SHEET FOR ADDITIONAL INFORMATION REGARDING LAMP AND FIXTURE REPLACEMENT)
	<b>AH</b>	KIM OR EQUAL	PLG8-5R-128L-85-4K8-UNV-WHS-PB22	277	LED 40K/80 80	PENDANT	FIXTURE SHALL BE PROVIDED WITH 10 YEAR WARRANTY
	<b>AI</b>	COLUMBIA OR EQUAL	LCAT22-40LWG-ED	277	LED 40K/80 17.5	RECESSED	2'x2' VOLUMETRIC RECESSED TROFFER WITH DIMMING DRIVER
	<b>AJ</b>	COLUMBIA OR EQUAL	LCAT22-40LWG-ED-ELL14	277	LED 40K/80 17.5	RECESSED	2'x2' VOLUMETRIC RECESSED TROFFER WITH DIMMING DRIVER - EMERGENCY FIXTURE WITH EMERGENCY BATTERY PACK INSTALLED. 1400 LUMENS
	<b>GF</b>	INSIGHT OR EQUAL	D2-200W-40K-SM-UNV-DIM-*IP66-(WIR-RMI-IO)	277	LED 40K/80 17.5	RECESSED	INDIRECT UP-LIGHT WITH DIMMING DRIVER
	<b>GG</b>	INSIGHT OR EQUAL	D2-200W-40K-SM-UNV-DIM-*IP67-(WIR-RMI-IO)	277	LED 40K/80 17.5	RECESSED	INDIRECT UP-LIGHT WITH DIMMING DRIVER - EMERGENCY FIXTURE WITH EMERGENCY BATTERY PACK INSTALLED

**GENERAL NOTES**

- PROGRAMMING AND COMMISSIONING SHALL BE PERFORMED BY HUBBELL OR A HUBBELL AUTHORIZED COMPANY AND ON-SITE TRAINING TO OWNER'S REPRESENTATIVES SHALL CONSIST OF TWO (2) TRAINING SESSIONS AT TWO (2) HOURS EACH.

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.

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PER CITY OF PHOENIX CITY  
CODE CHAPTER 23 SECTION  
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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: NTS

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING FIXTURE SCHEDULE**

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**OVERALL ELECTRICAL SITE PLAN**



PSHIA RENTAL CAR LED LIGHT RETROFIT

**OVERALL ELECTRICAL SITE PLAN**

Sheet Reference Number:  
**E00.5**

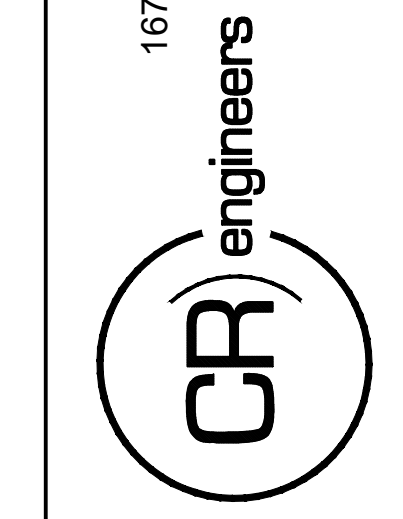
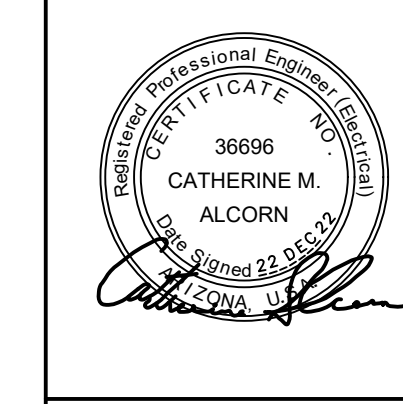
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**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
**AV15000073-1**

NO.	REVISIONS / SUBMISSIONS	DATE

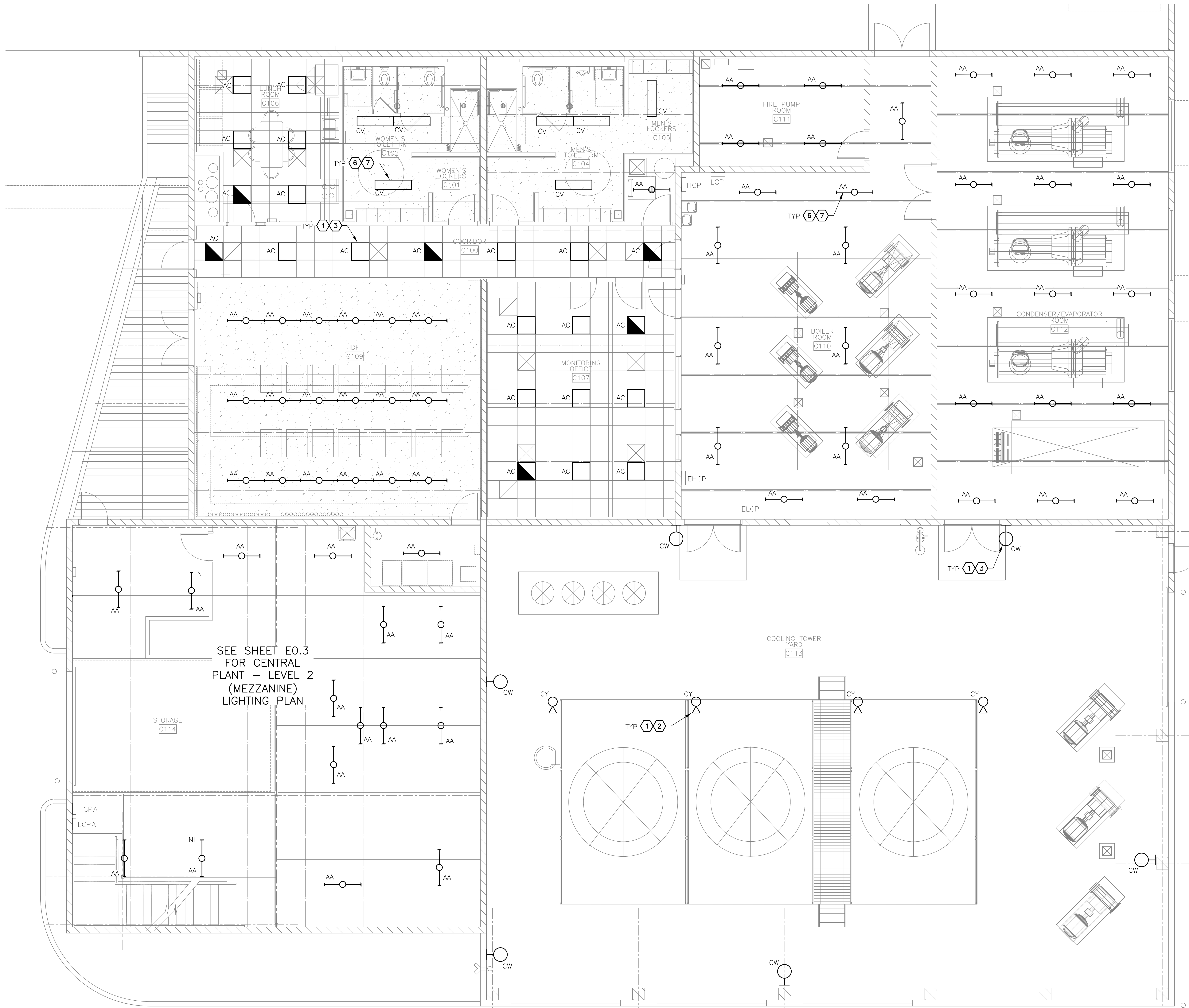
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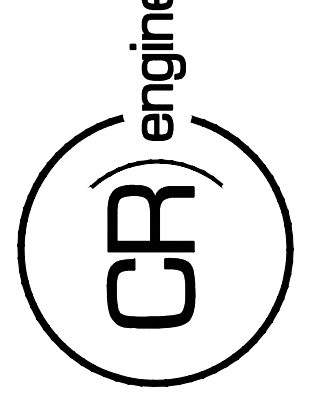
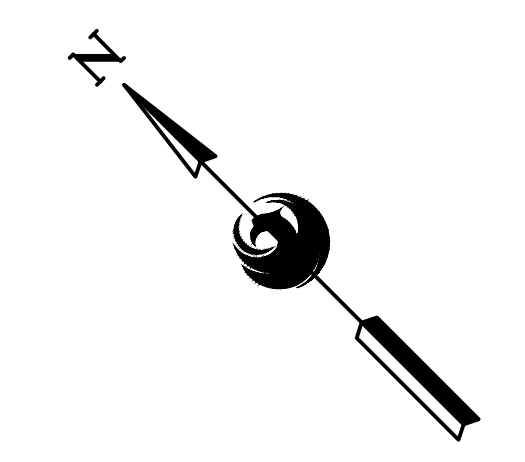


SEE SHEET E0.3  
FOR CENTRAL  
PLANT - LEVEL 2  
(MEZZANINE)  
LIGHTING PLAN

- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
  - EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.
  - NEW FIXTURE LAMPS TO BE INSTALLED.

**A CENTRAL PLANT LIGHTING PLAN**  
SCALE: 1/4" = 1'-0"



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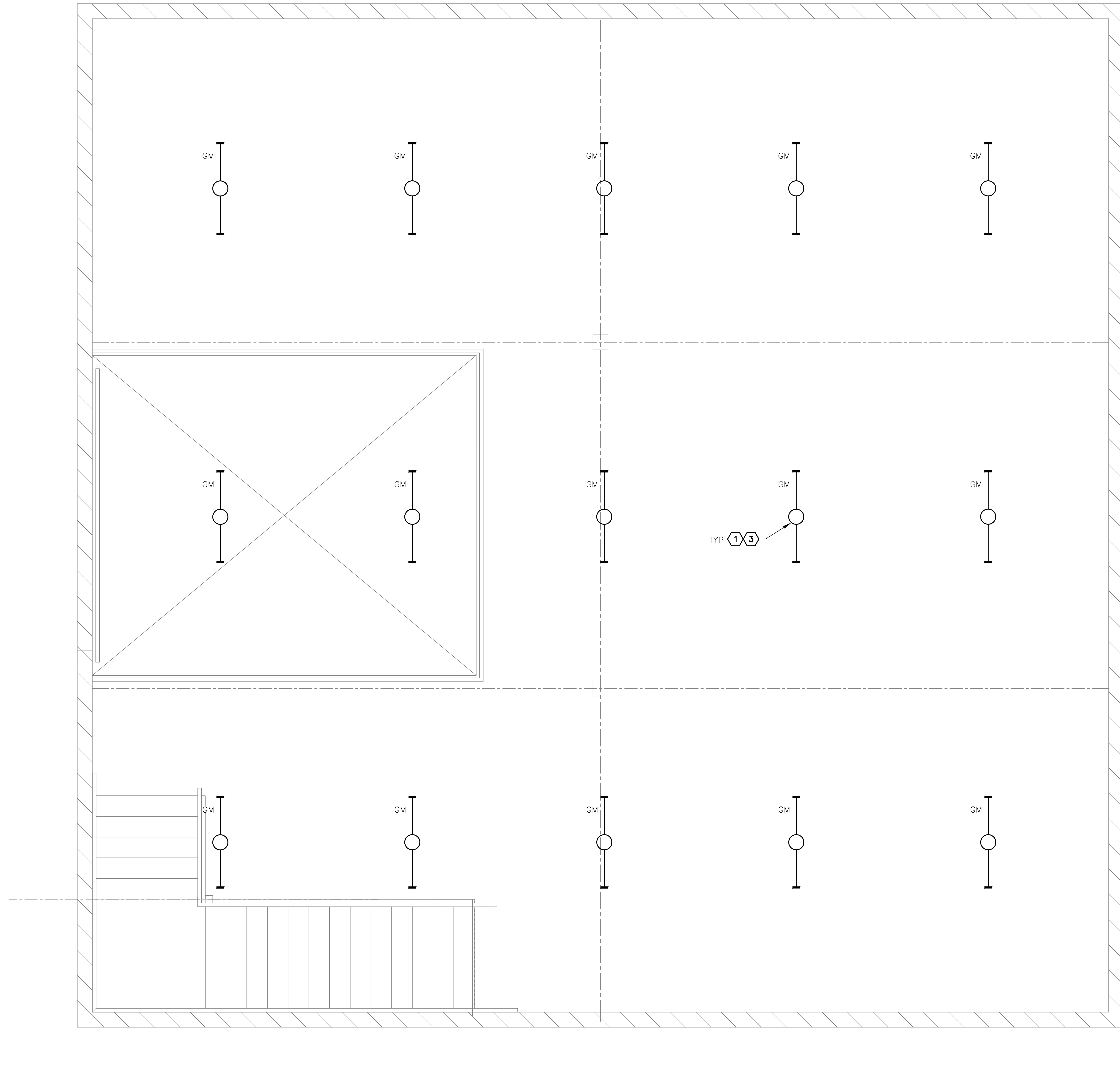
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**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: KEL  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**CENTRAL PLANT LIGHTING PLAN**





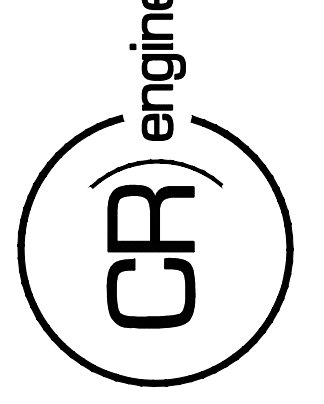
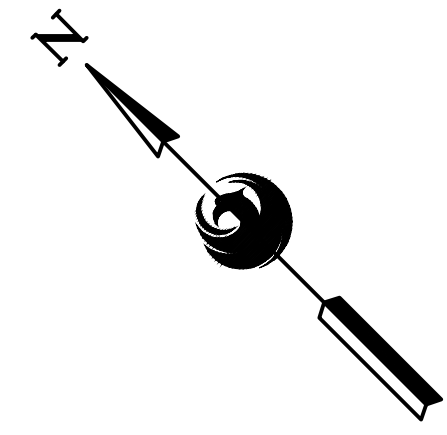
**A** CENTRAL PLANT - LEVEL 2 (MEZZANINE) LIGHTING PLAN  
 SCALE: 1/2" = 1'-0"

**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
- ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
- ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.



KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

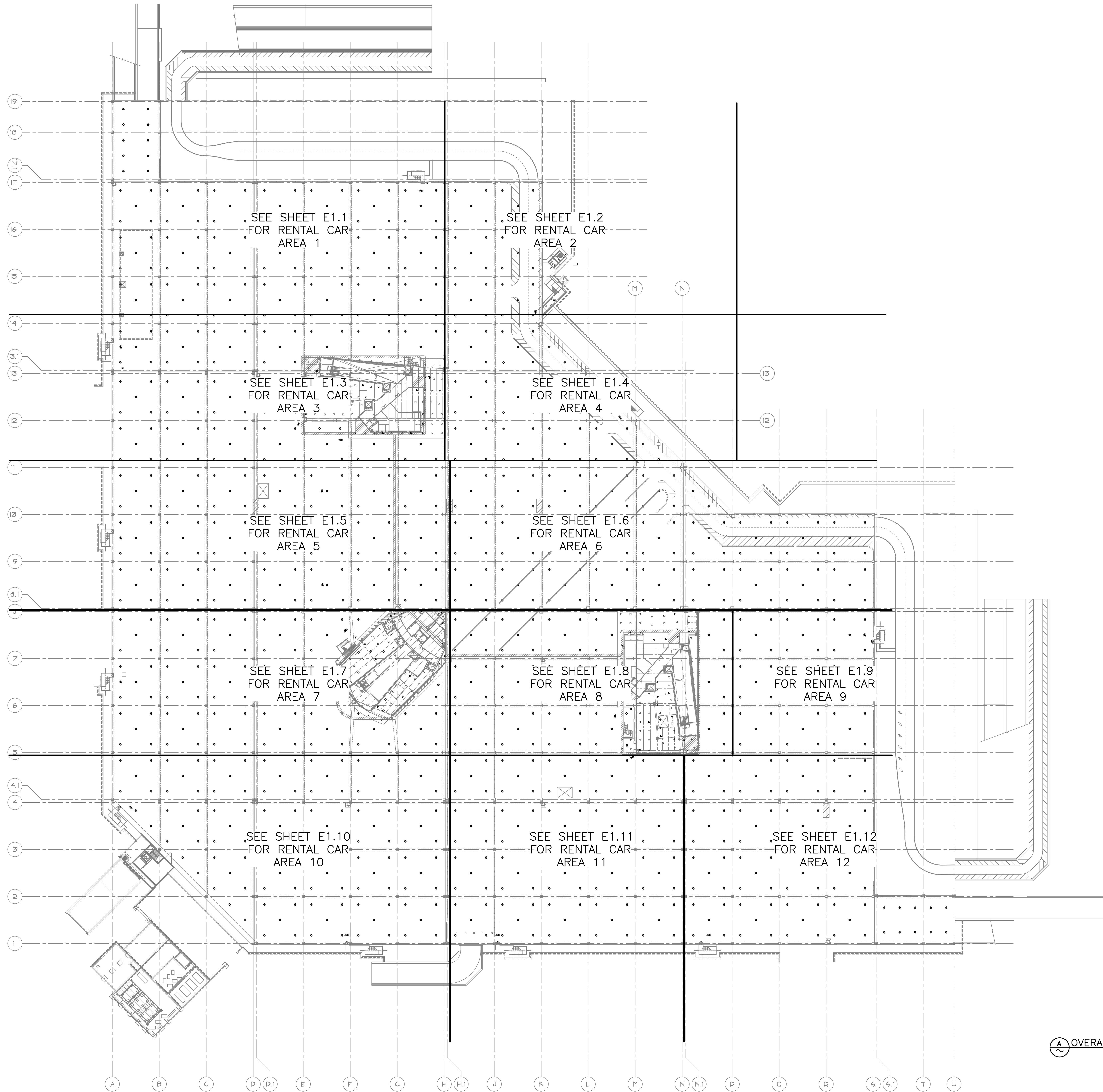
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

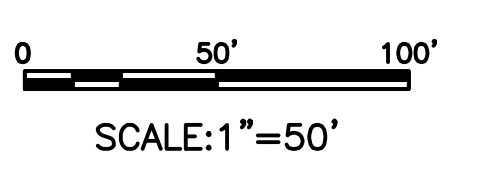
Designed by: KEL  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**CENTRAL PLANT - LEVEL 2  
 LIGHTING PLAN**

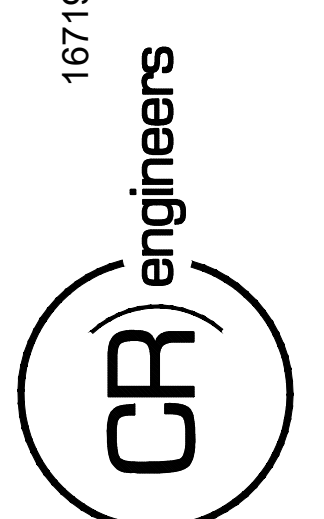
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**OVERALL LIGHTING PLAN - LEVEL 1**



16719 East Palisades Blvd., Suite 202  
 Fountain Hills, AZ 85268  
 Phone: (480) 816-5541  
 Fax: (480) 816-5540  
 www.creng.com



KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

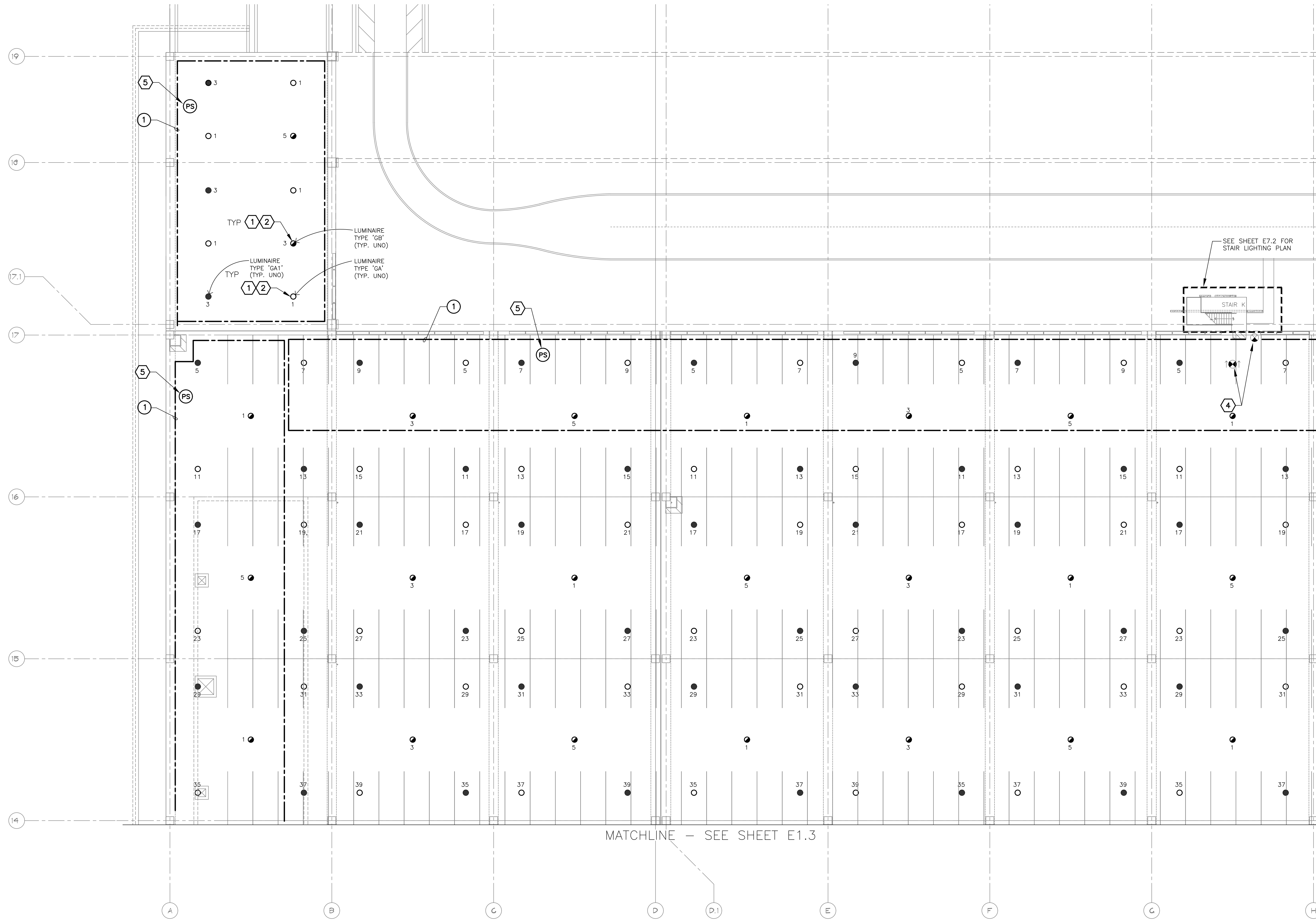
**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV15000073-1

Designed by: KEL  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

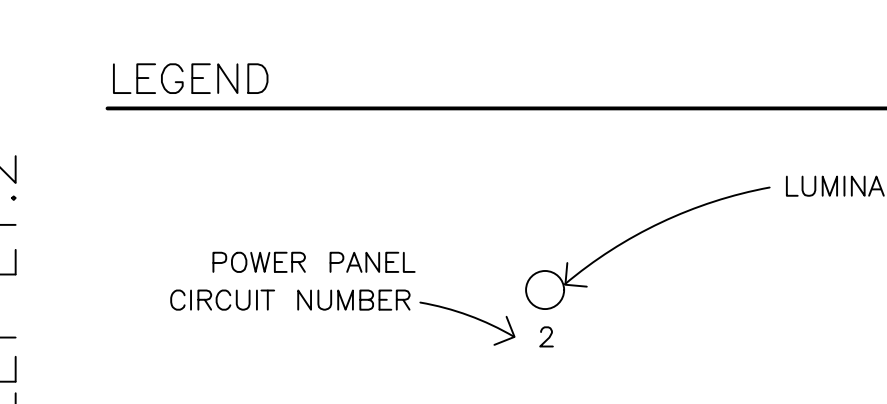
PSHIA RENTAL CAR LED LIGHT RETROFIT  
**OVERALL LIGHTING PLAN  
 LEVEL 1**

Sheet Reference Number:  
**E1.0**  
 Sheet 10 of 130

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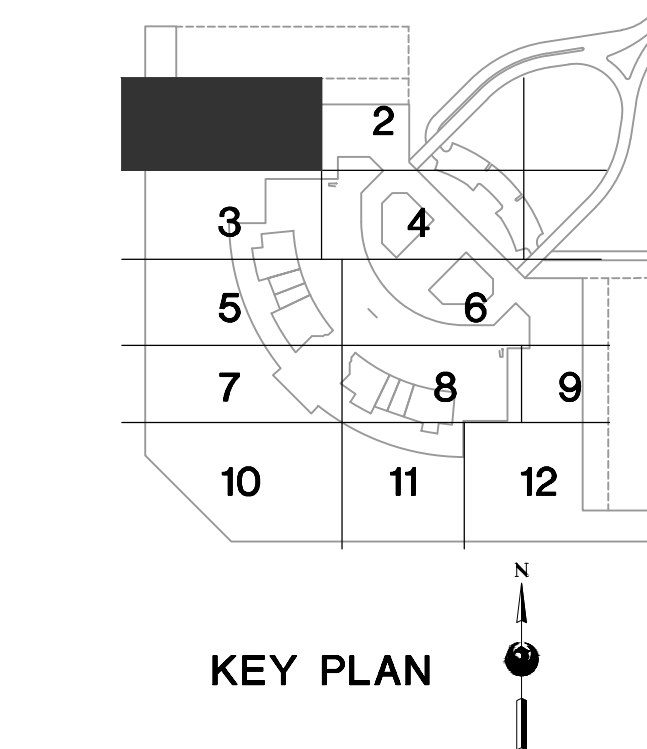
- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1).
  - EXISTING FIXTURE TO REMAIN AS IS.
  - CEILING-MOUNT PHOTO SENSOR (WIR-PHOTOCELL)

- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.



**A LIGHTING PLAN - LEVEL 1 - RENTAL CAR AREA 1**  
SCALE: 1/16" = 1'-0"

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com

**CR engineers**

36666  
CATHERINE M. ALCOORN  
Professional Engineer  
No. 12345  
Exp. 12/31/2024

KIVA NO:  
SDEV NO:  
CONTRACT NO:

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-238 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

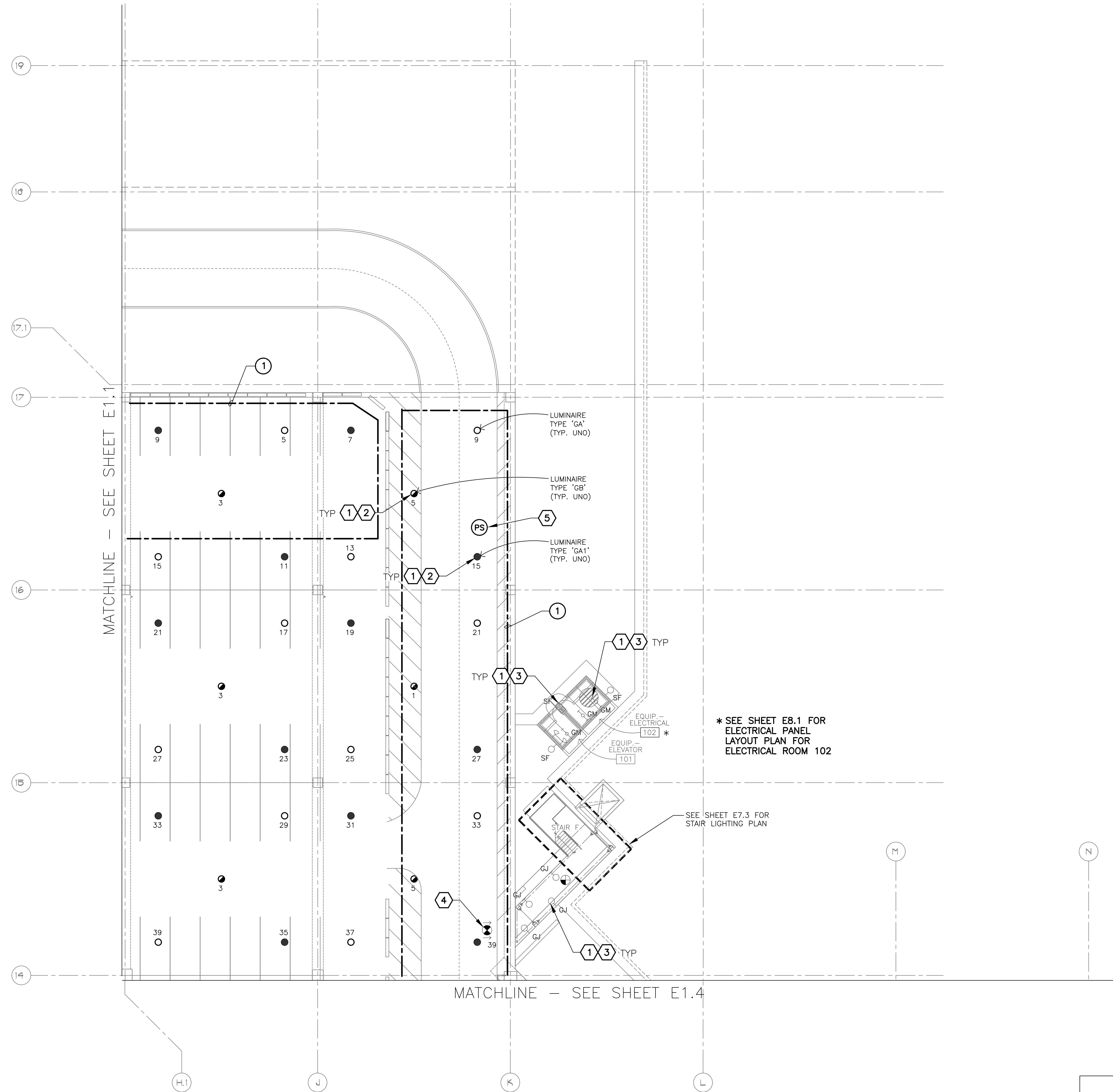
**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR LED LIGHT RETROFIT  
AV15000073-1

Designed by: KEL  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

**LIGHTING PLAN  
LEVEL 1  
RENTAL CAR AREA 1**

Sheet Reference Number:  
**E1.1**

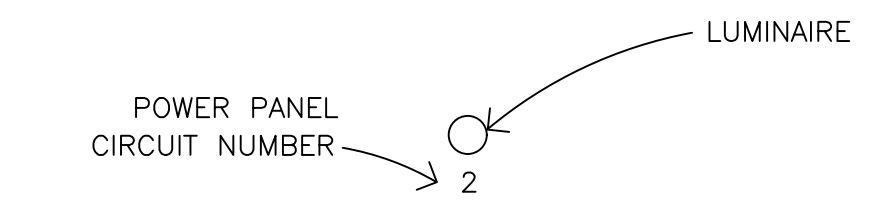
Sheet 11 of 130



**GENERAL NOTES**

1. EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
2. ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
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4. GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
5. ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

**LEGEND**



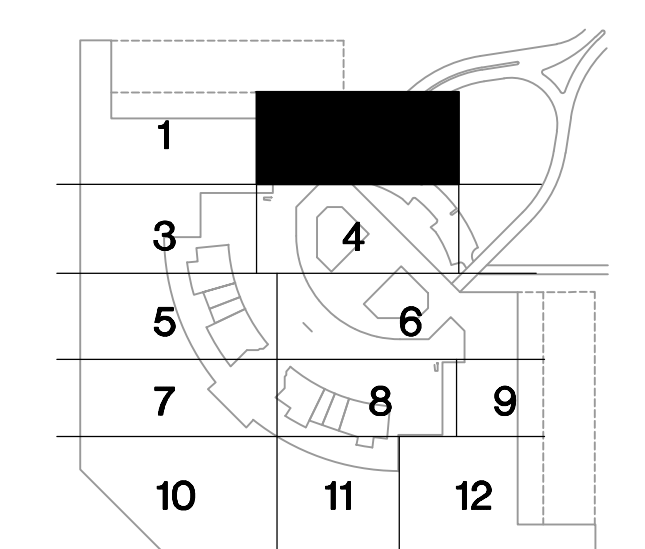
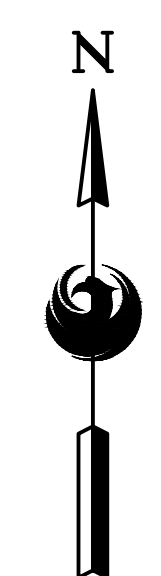
**KEYED NOTES**

1. EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
2. NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1).
3. NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
4. EXISTING FIXTURE TO REMAIN AS IS.
5. CEILING-MOUNT PHOTO SENSOR (WIR-PHOTOCELL)

**REFERENCE NOTES**

1. DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.

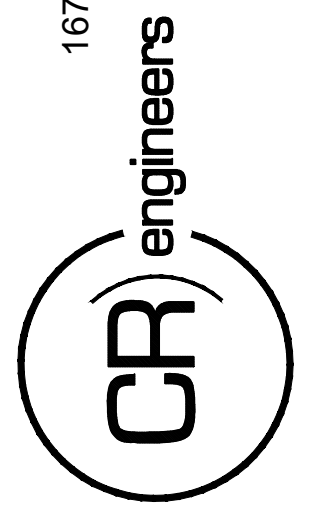


**KEY PLAN**

**A LIGHTING PLAN - LEVEL 1 - RENTAL CAR AREA 2**

SCALE: 1/16" = 1'-0"

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com



KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: KEL  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 1  
RENTAL CAR AREA 2**

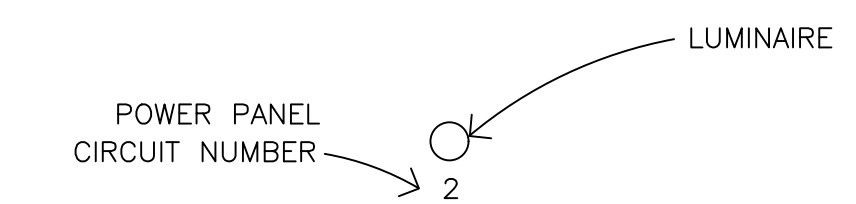
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**E1.2**  
Sheet 12 of 130



**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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**LEGEND**

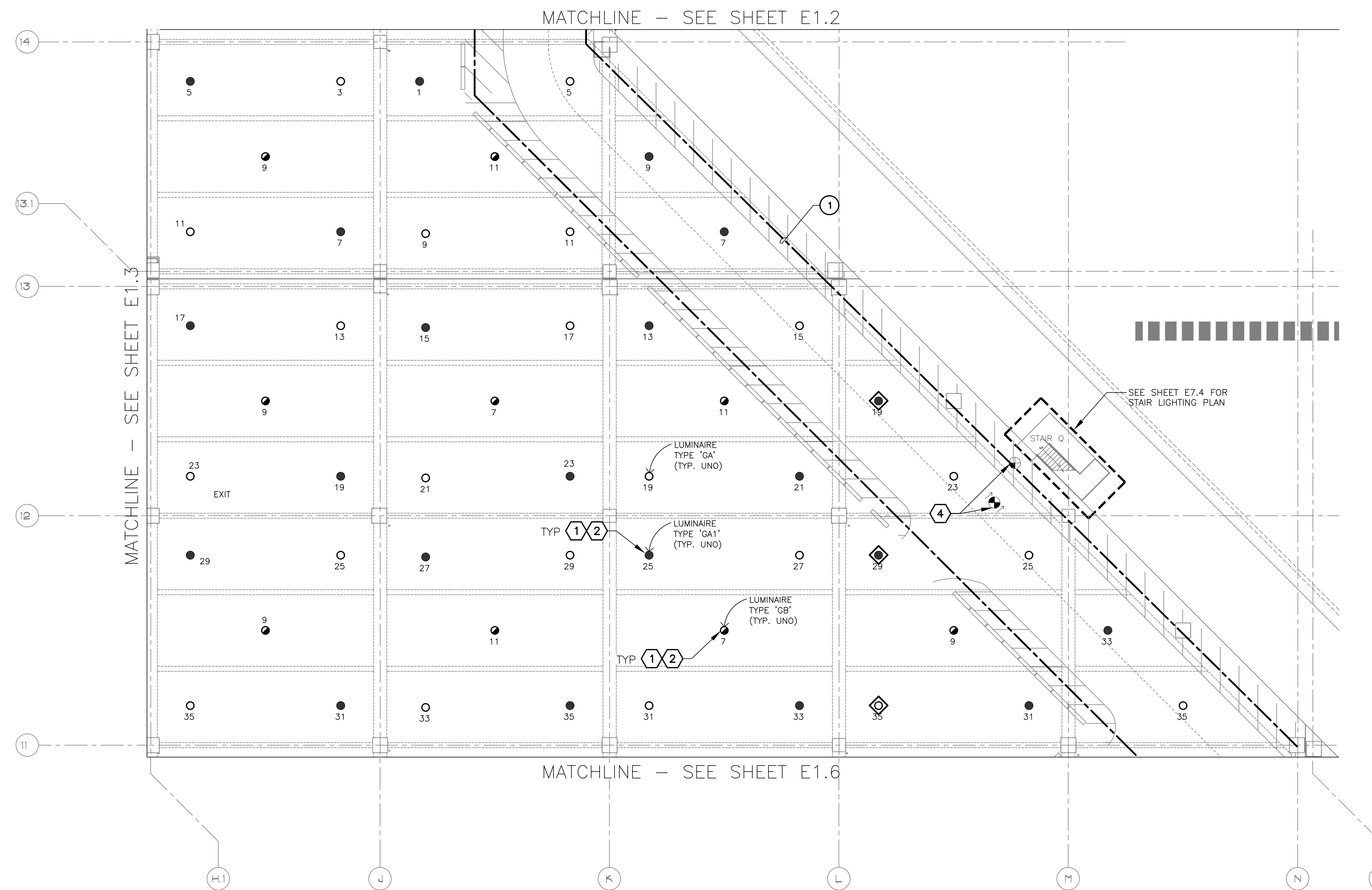


**KEYED NOTES**

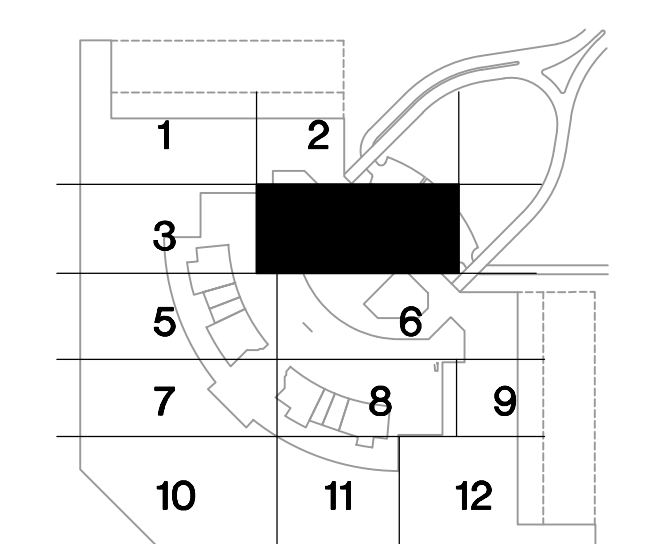
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**REFERENCE NOTES**

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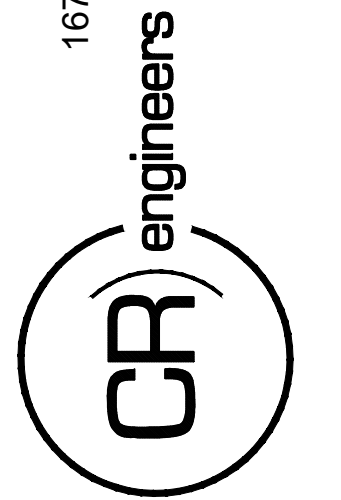


**KEY PLAN**

**Ⓐ LIGHTING PLAN – LEVEL 1 – RENTAL CAR AREA 4**

SCALE: 1/16" = 1'-0"

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Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
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KIVA NO:  
SDEV NO:  
CONTRACT NO:

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 1  
RENTAL CAR AREA 4**

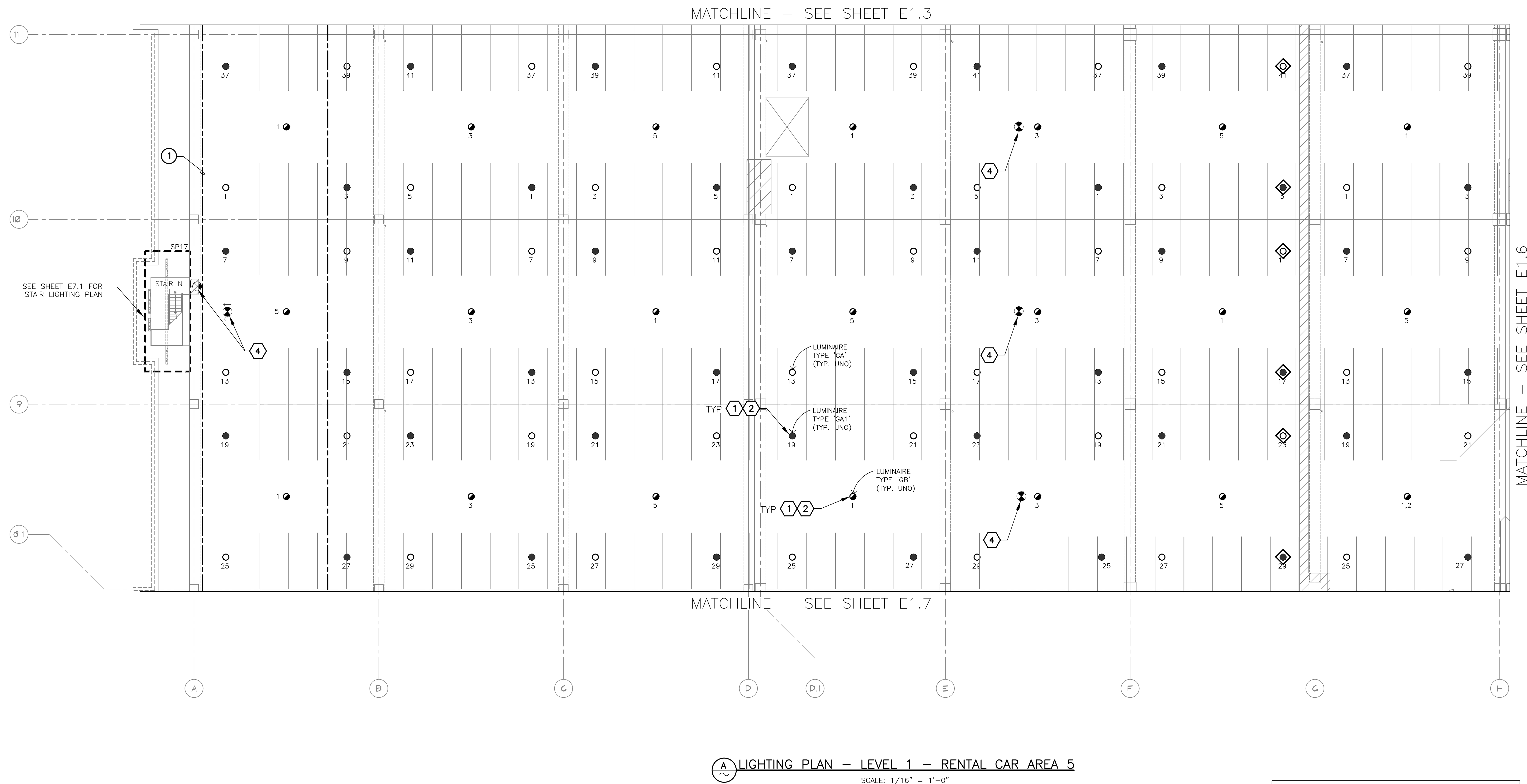
Sheet Reference Number:

**E1.4**

Sheet 14 of 130

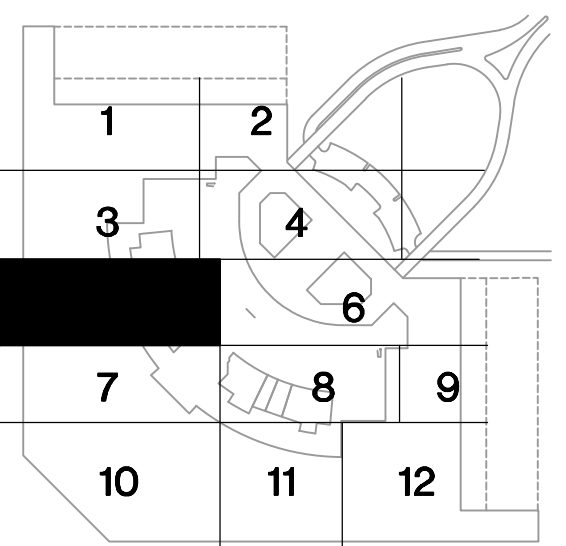
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C:\PROJECTS\2100\21009 PHX RENTAL CAR LED LIGHT RETROFIT\21009 E1.5 LIGHTING PLAN - LEVEL 1 - RENTAL CAR AREA 5.dwg - Dec 20/2022 2:14pm



**A LIGHTING PLAN - LEVEL 1 - RENTAL CAR AREA 5**  
SCALE: 1/16" = 1'-0"

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.

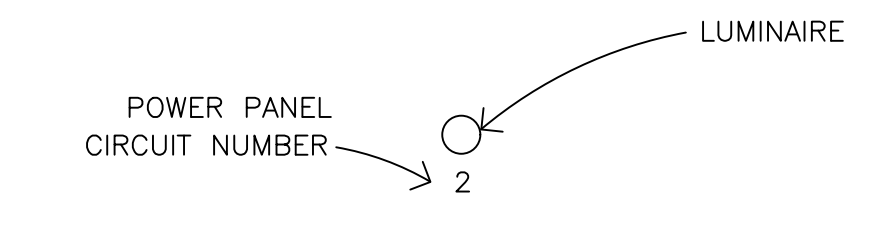


**KEY PLAN**

**GENERAL NOTES**

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**LEGEND**



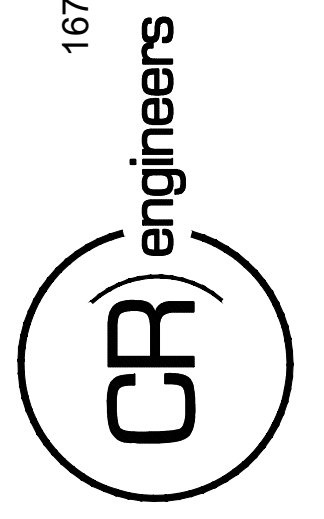
**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
- EXISTING FIXTURE TO REMAIN AS IS.

**REFERENCE NOTES**

- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

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KIVA NO:  
SDEV NO:  
CONTRACT NO:

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

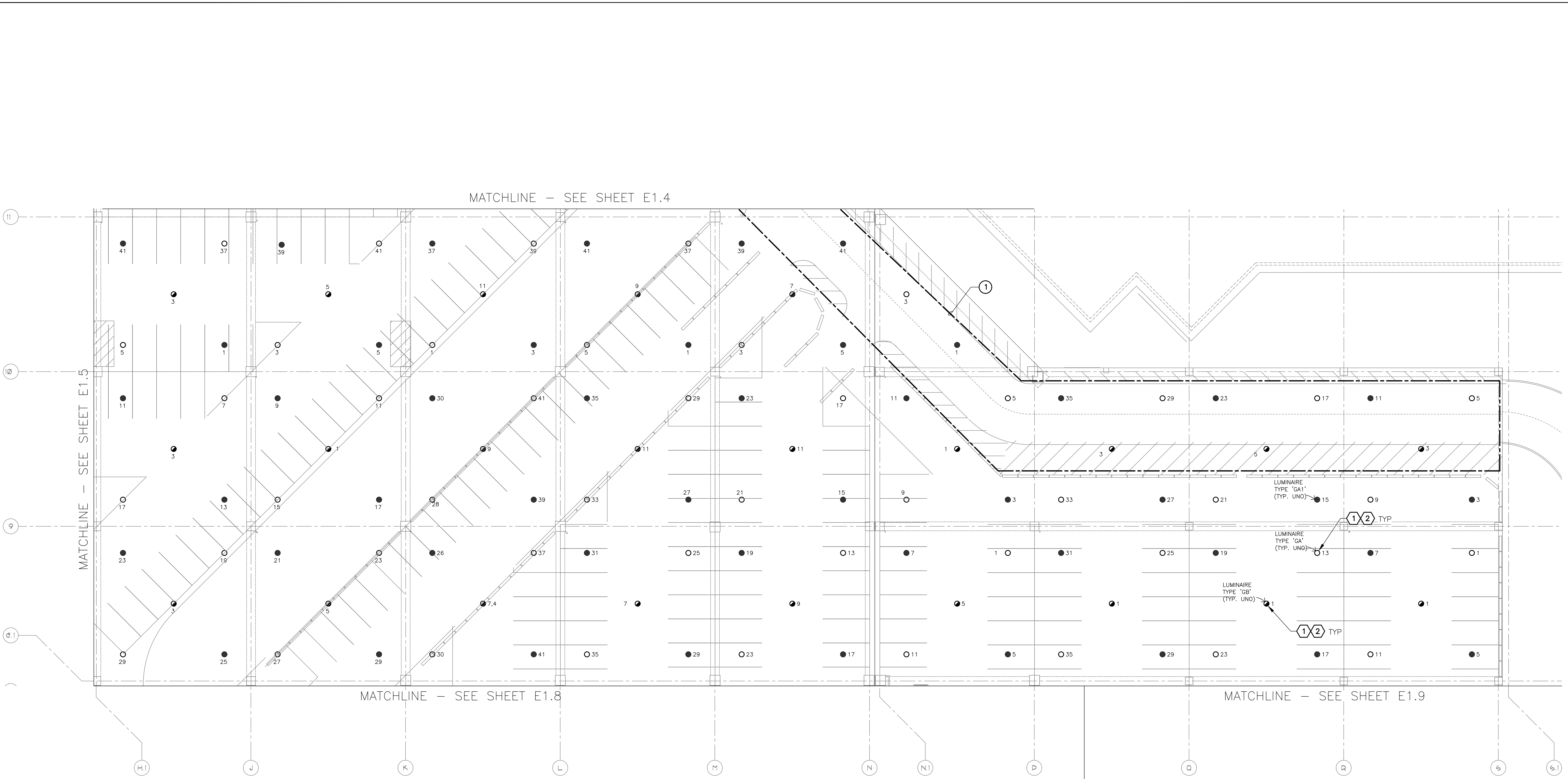
**PHX DOT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

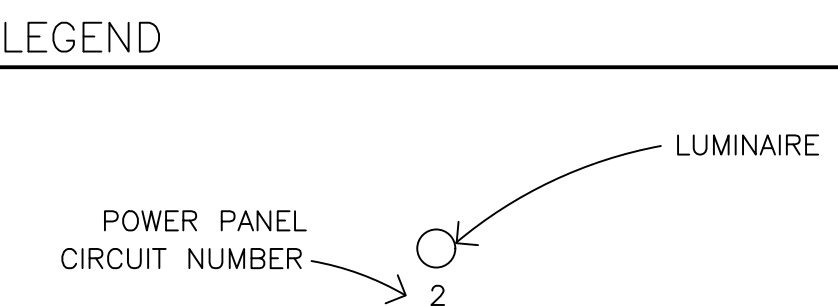
PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 1  
RENTAL CAR AREA 5**

Sheet Reference Number:  
**E1.5**  
Sheet 15 of 130

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EXTERIOR FIXTURES, AS NOTED  
 IN THE FIXTURE SCHEDULE,  
 SHALL BE CONTROLLED BY  
 HUBBELL wISCAPE. ALL  
 OTHERS SHALL BE  
 CONTROLLED BY HUBBEL NX.



**KEYED NOTES**

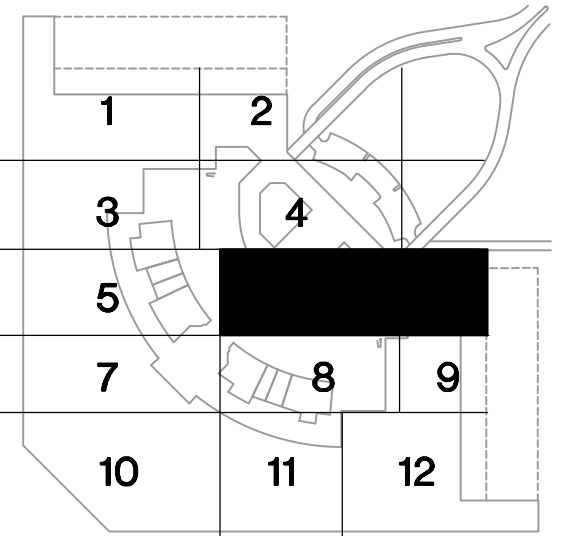
- ① EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- ② NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).

**REFERENCE NOTES**

- ① DAYLIGHT HARVESTING ZONE, ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

**GENERAL NOTES**

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A LIGHTING PLAN - LEVEL 1 - RENTAL CAR AREA 6  
 SCALE: 1/16" = 1'-0"

PER CITY OF PHOENIX CITY CODE CHAPTER 23 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

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 www.creng.com

KIVA NO:

SDEV NO:

CONTRACT NO:

NO.

REVISIONS / SUBMISSIONS

DATE

DESIGNED BY: RD

DRAWN BY: JBW

CHECKED BY: CA

DATE: 12/22/2022

DWG SCALE: AS NOTED

PHOENIX AVIATION DEPARTMENT

PSHIA RENTAL CAR LED LIGHT RETROFIT

AV15000073-1

LIGHTING PLAN  
 LEVEL 1  
 RENTAL CAR AREA 6

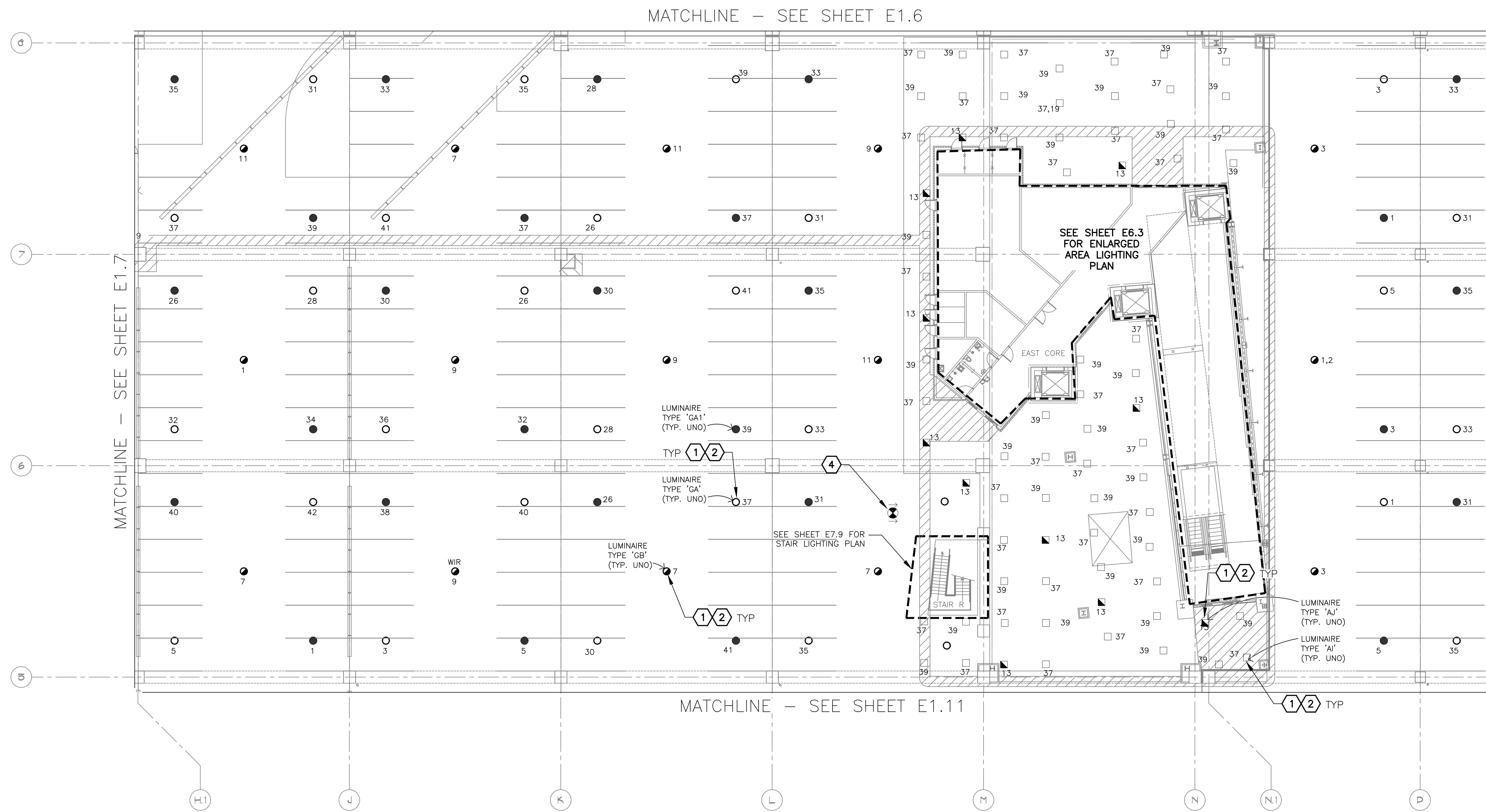
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E1.6

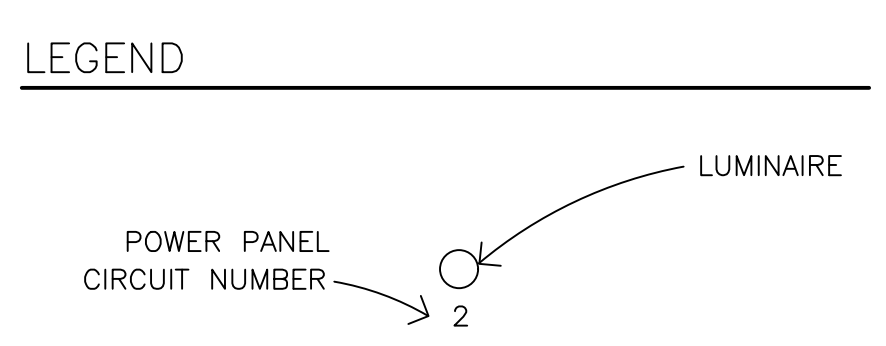
SHEET 16 OF 130





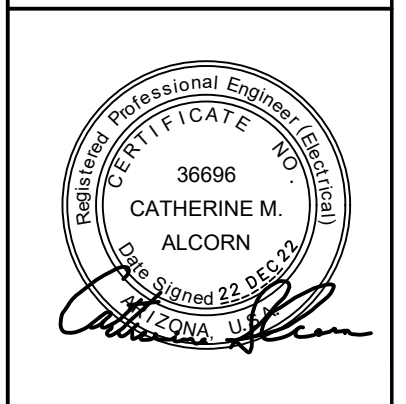
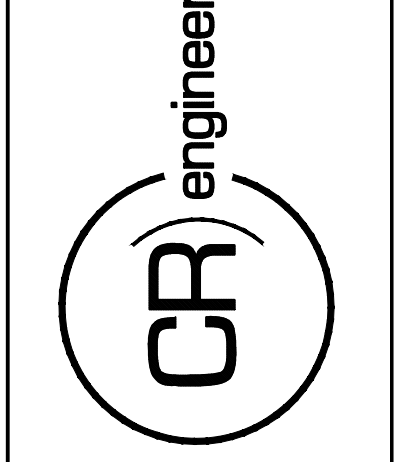


- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
  - EXISTING FIXTURE TO REMAIN AS IS.

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 Fountain Hills, AZ 85268  
 Phone: (480) 816-5541  
 Fax: (480) 816-5540  
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KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

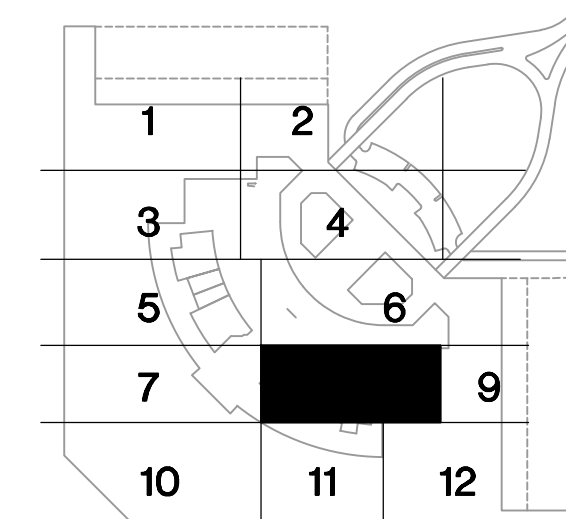
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV15000073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN**  
**LEVEL 1**  
**RENTAL CAR AREA 8**

Sheet Reference Number:  
**E1.8**  
 Sheet 18 of 130

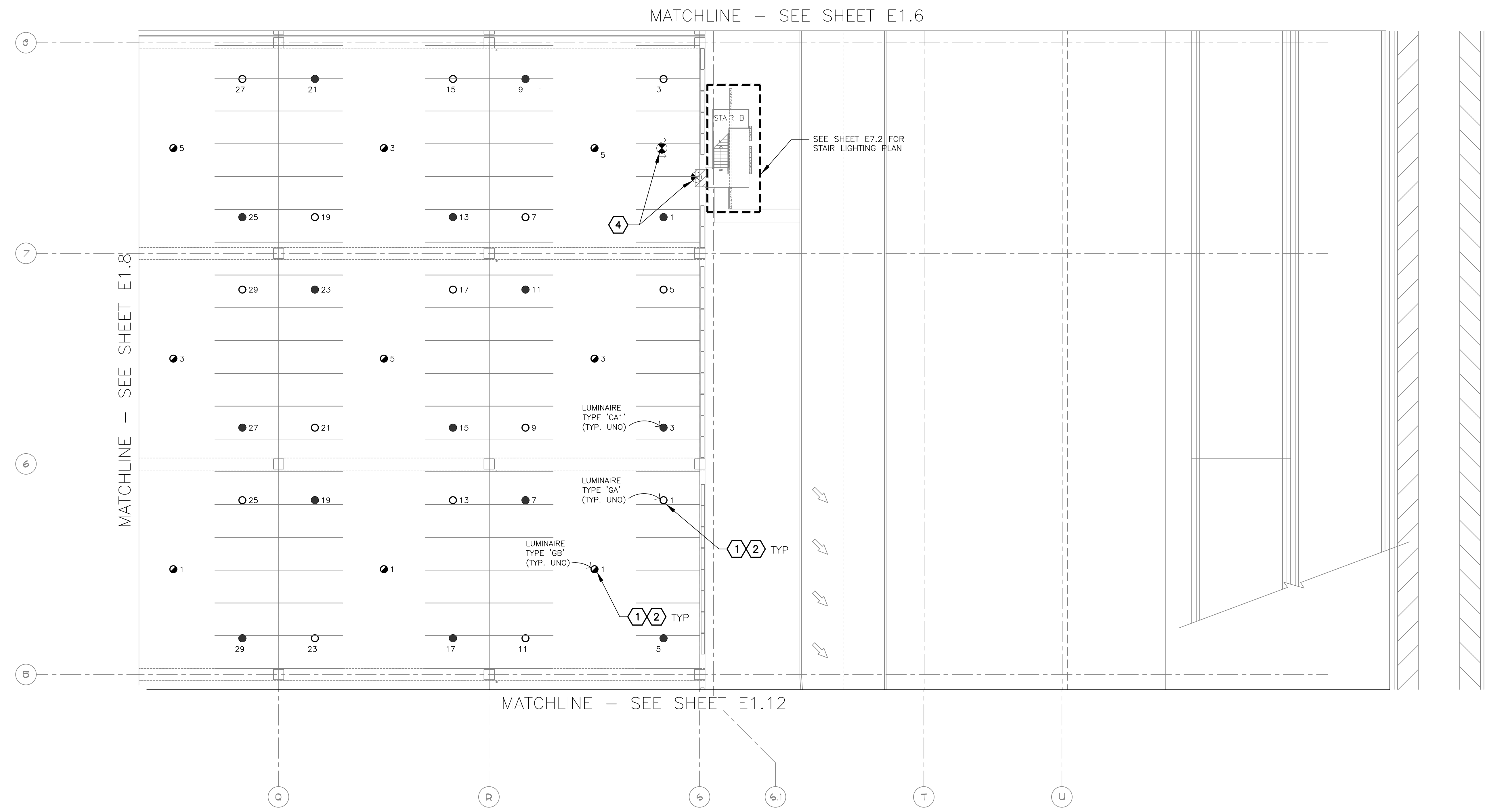


**KEY PLAN**

**A LIGHTING PLAN - LEVEL 1 - RENTAL CAR AREA 8**  
 SCALE: 1/16" = 1'-0"

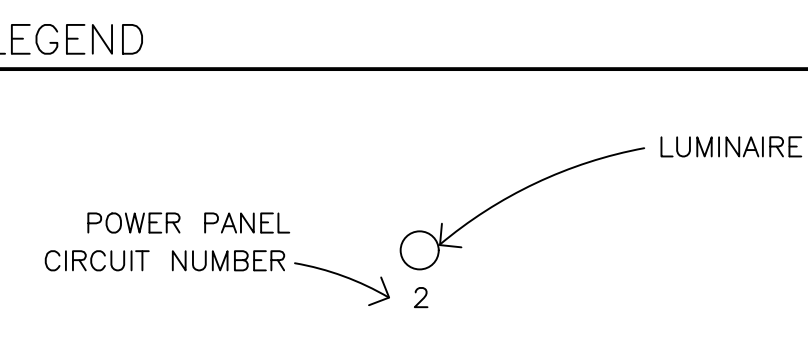
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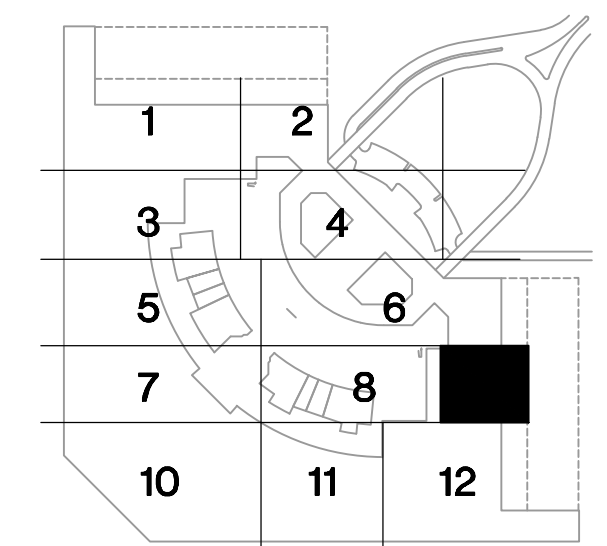


EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBEL NX.

- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
  - EXISTING FIXTURE TO REMAIN AS IS.



KEY PLAN



**A LIGHTING PLAN - LEVEL 1 - RENTAL CAR AREA 9**  
SCALE: 1/16" = 1'-0"

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Fax: (480) 816-5540  
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KIVA NO: 36666  
SDEV NO: CATHERINE M. ALCORN  
CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-238, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

PHIX DVI EYE  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR LED LIGHT RETROFIT  
AV15000073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

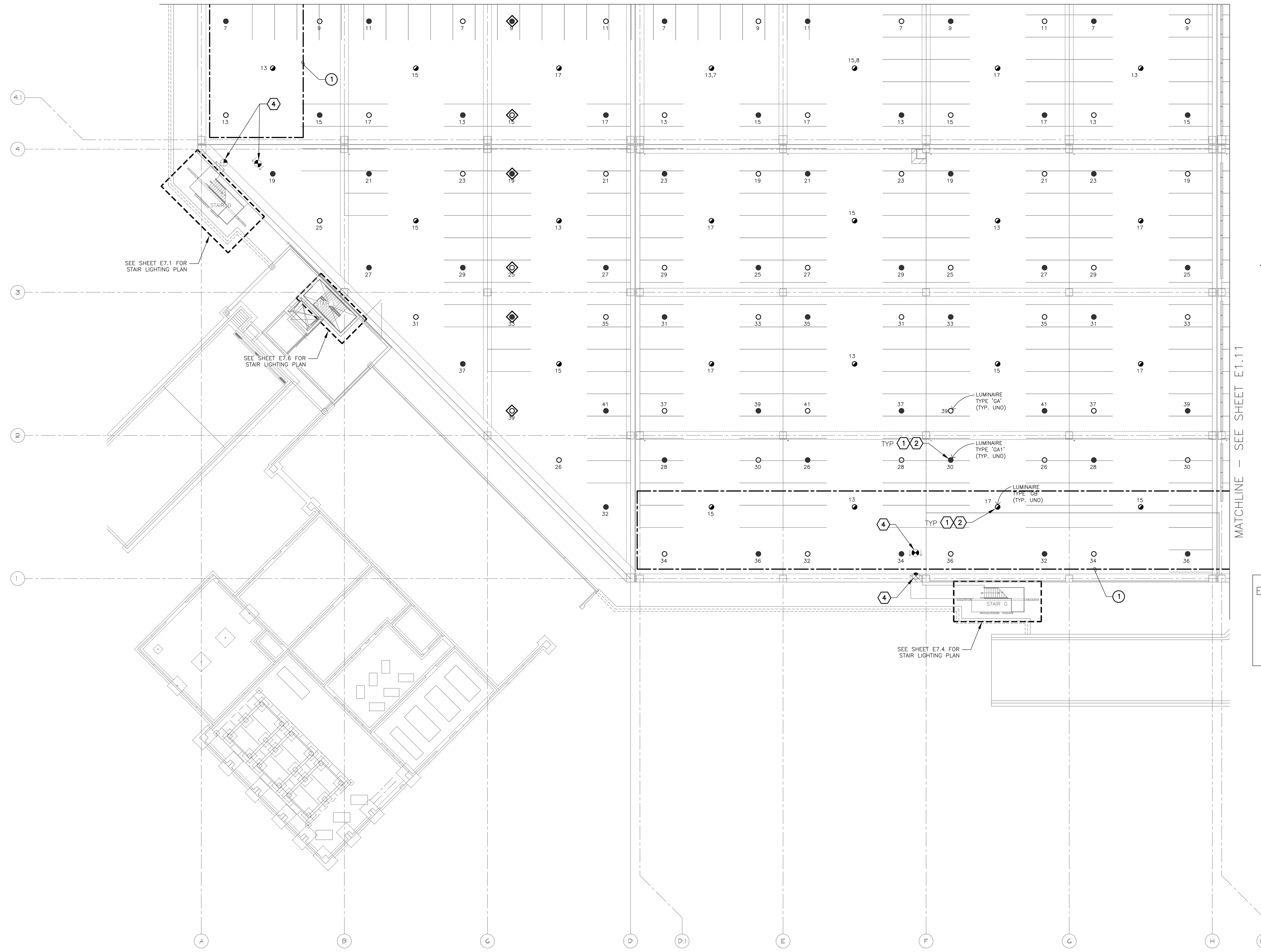
PHSIA RENTAL CAR LED LIGHT RETROFIT

**LIGHTING PLAN  
LEVEL 1  
RENTAL CAR AREA 9**

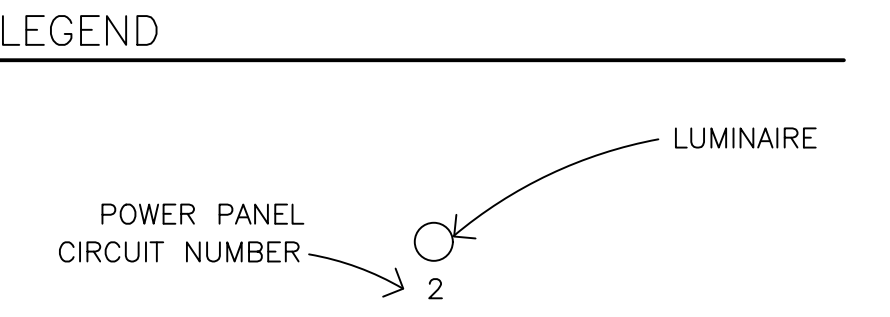
Sheet Reference Number:  
**E1.9**

Sheet 19 of 130

MATCHLINE - SEE SHEET E1.7



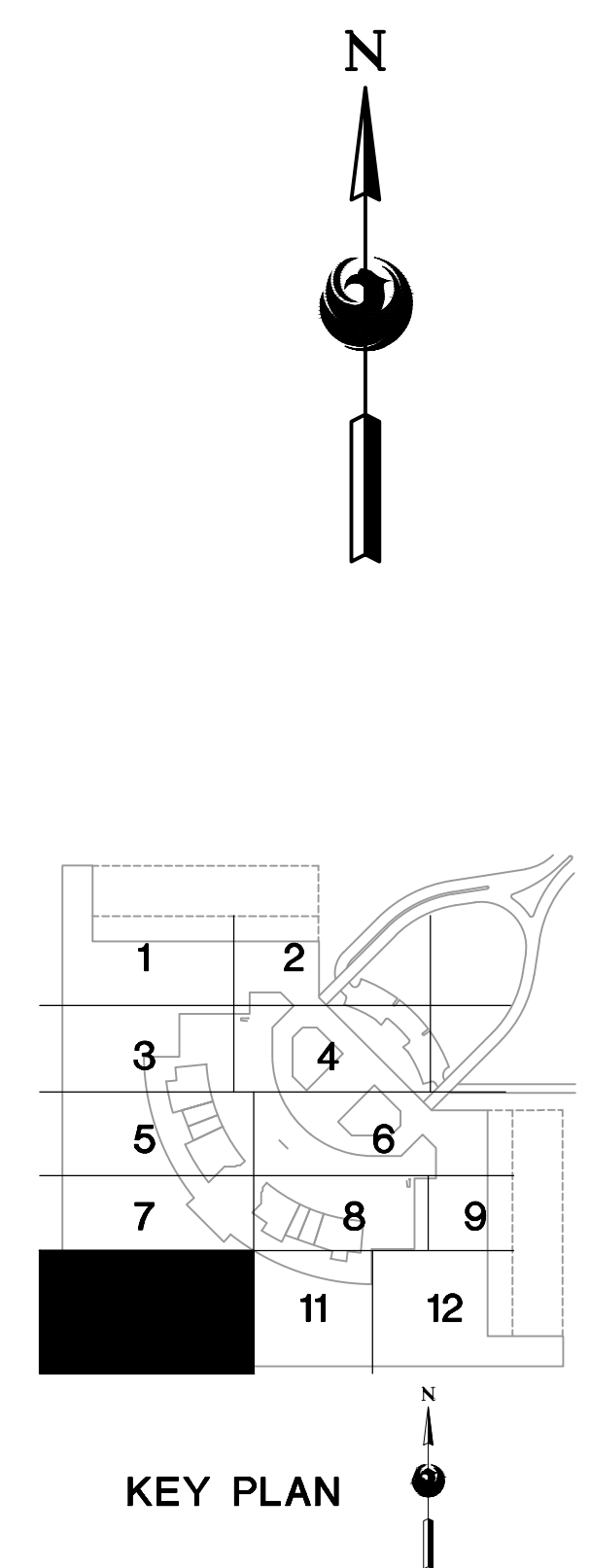
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  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
  - EXISTING FIXTURE TO REMAIN AS IS.

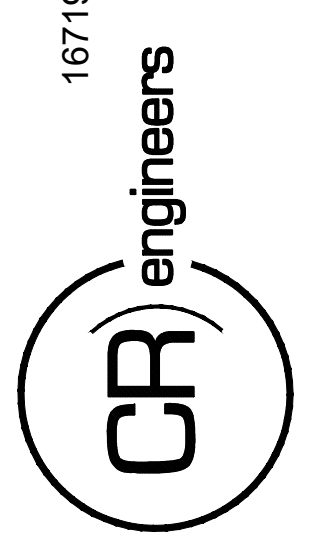
- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.



**A LIGHTING PLAN - LEVEL 1 - RENTAL CAR AREA 10**  
SCALE: 1/16" = 1'-0"

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SDEV NO.:  
CONTRACT NO.: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

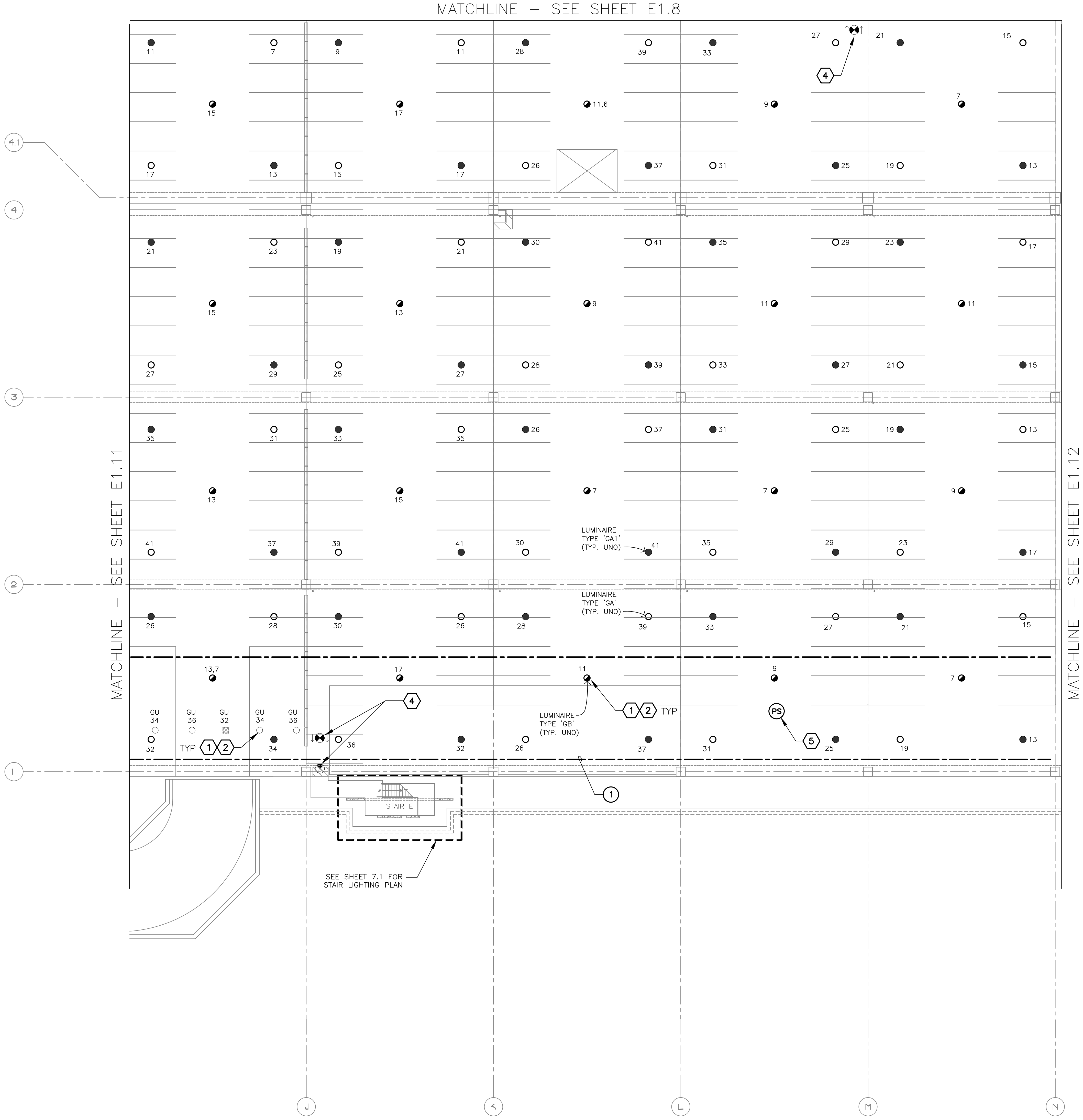
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Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 1  
RENTAL CAR AREA 10**

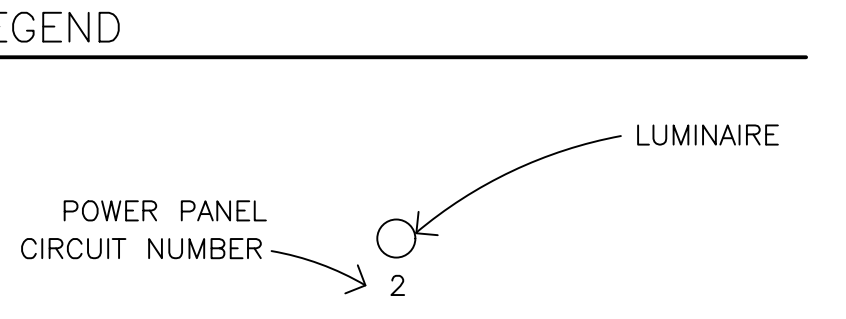
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**E1.10**  
Sheet 20 of 130

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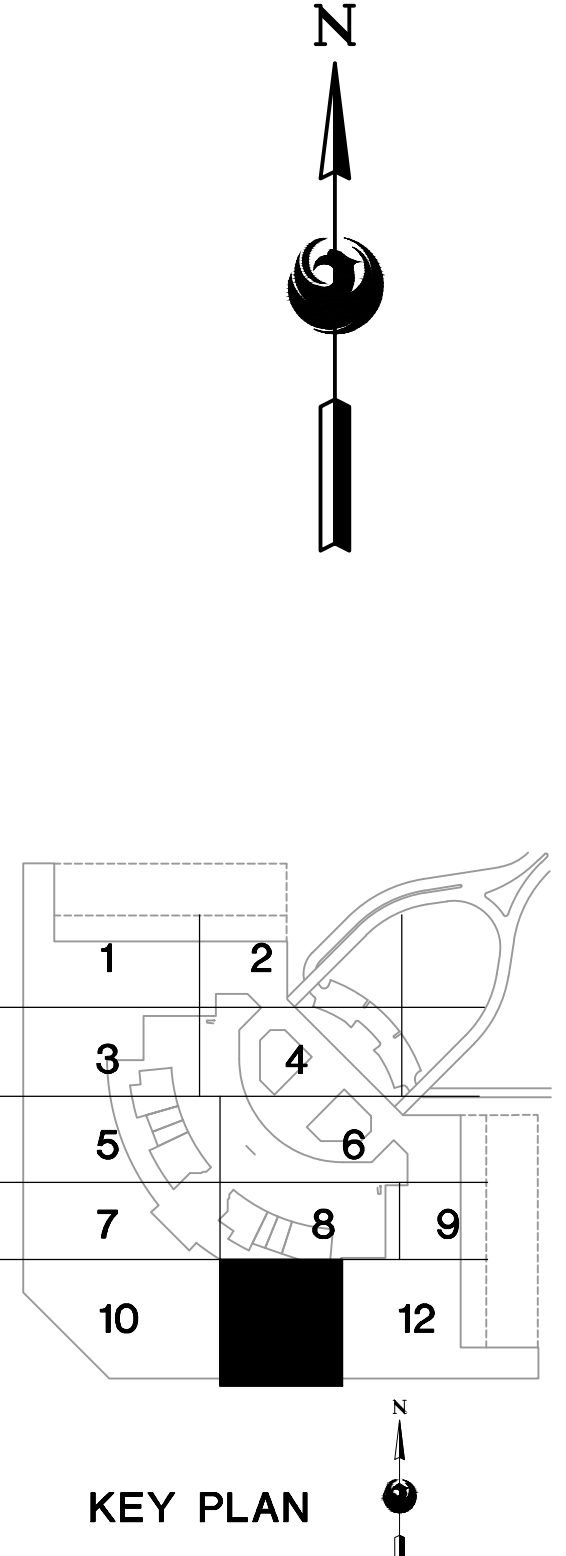
- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1).
  - EXISTING FIXTURE TO REMAIN AS IS.
  - CEILING-MOUNT PHOTO SENSOR (WIR-PHOTOCELL)

- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE, ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wiSCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBEL NX.



**A LIGHTING PLAN - LEVEL 1 - RENTAL CAR AREA 11**  
SCALE: 1/16" = 1'-0"

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Fountain Hills, AZ 85268  
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KIVA NO:

SDEV NO:

CONTRACT NO:

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-208, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO THE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

PHX **PHX** CITY OF PHOENIX AVIATION DEPARTMENT

PSHIA RENTAL CAR LED LIGHT RETROFIT

AV1500073-1

Designed by: KEL

Drawn by: JBW

Checked by: CA

Date: 12/22/2022

Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT

**LIGHTING PLAN**

**LEVEL 1**

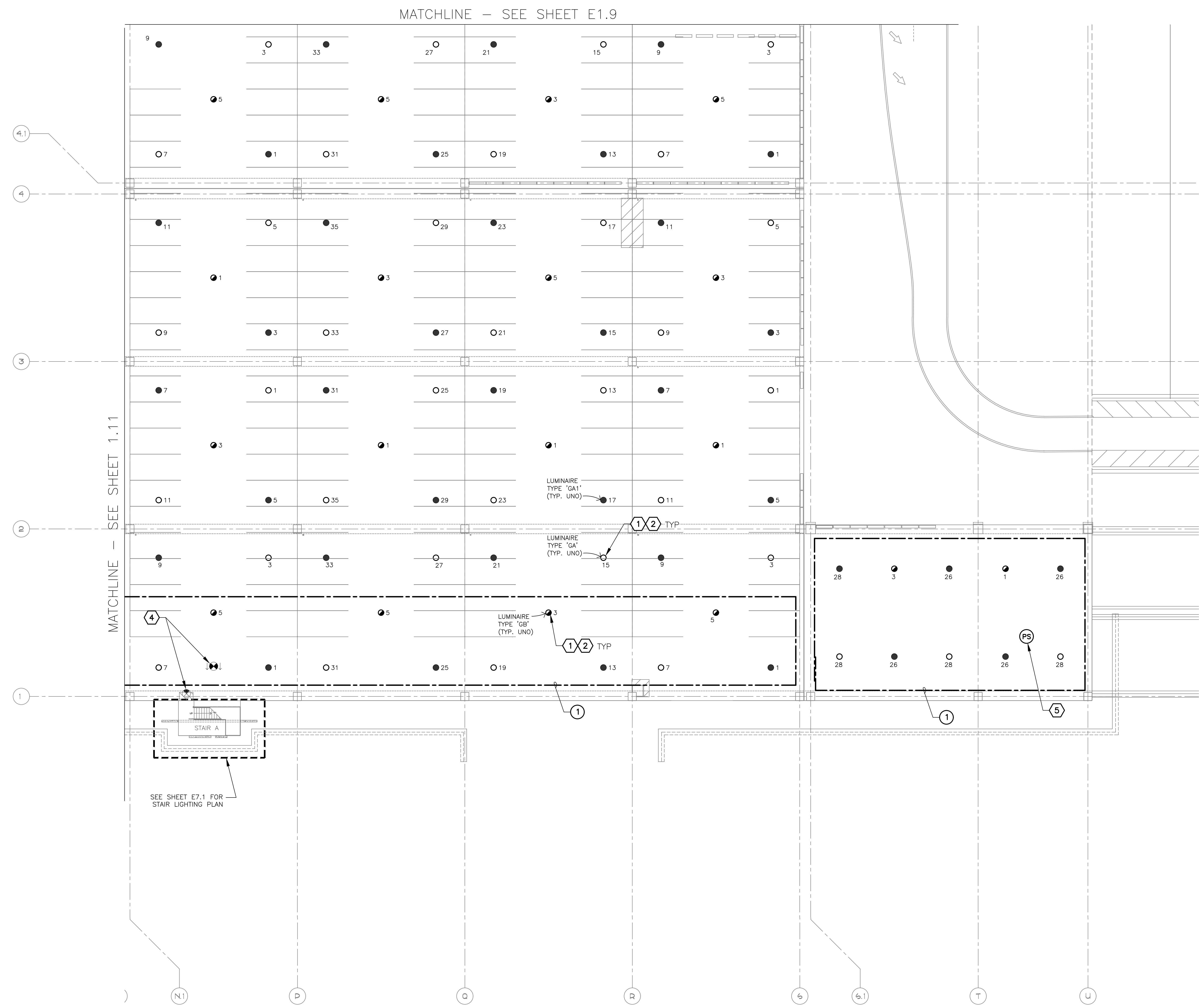
**RENTAL CAR AREA 11**

Sheet Reference Number:

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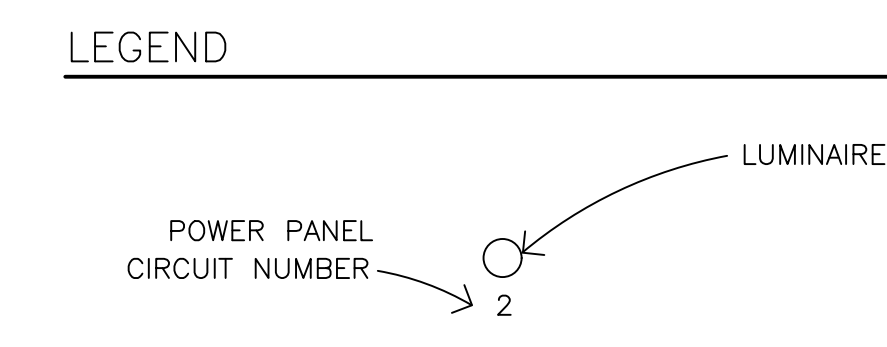
Sheet 21 of 130

C:\PROJECTS\21000\21009\_PSH\_RCA\_CAR\_LED\_LIGHTING\_PLAN\_LEVEL\_1 - RENTAL\_CAR\_AREA\_12.dwg - Dec 20, 2022 2:39pm



**A LIGHTING PLAN - LEVEL 1 - RENTAL CAR AREA 12**  
 SCALE: 1/16" = 1'-0"

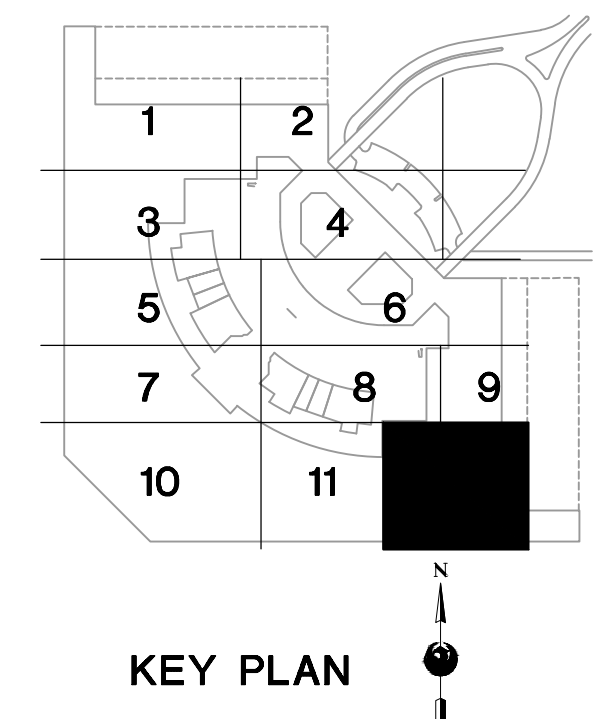
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- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1).
  - EXISTING FIXTURE TO REMAIN AS IS.
  - CEILING-MOUNT PHOTO SENSOR (WIR-PHOTOCELL)

- REFERENCE NOTES**
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KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

NO.	REVISIONS / SUBMISSIONS	DATE

PHX DVI EYE  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

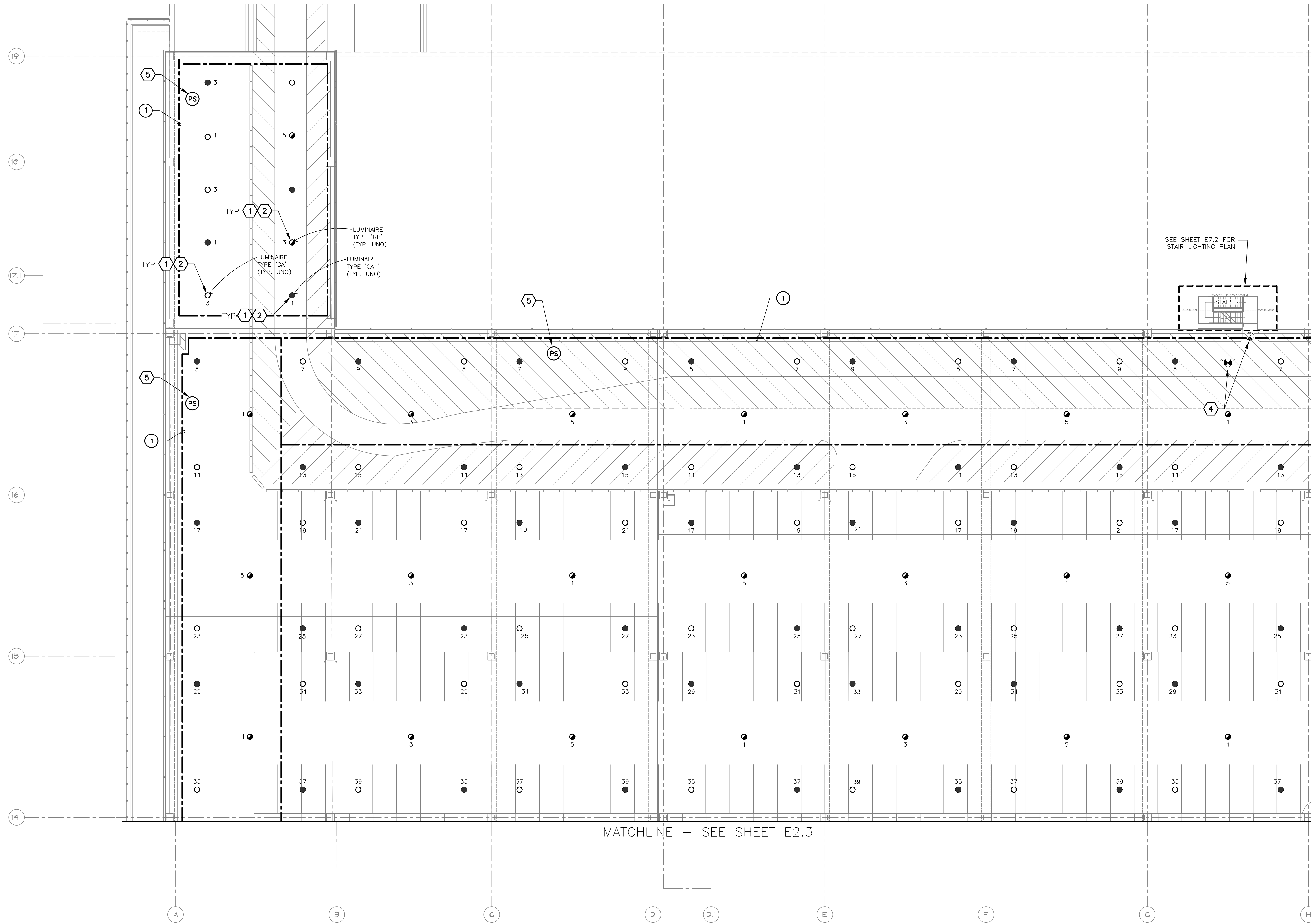
PSHIA RENTAL CAR LED LIGHT RETROFIT

**LIGHTING PLAN  
LEVEL 1  
RENTAL CAR AREA 12**

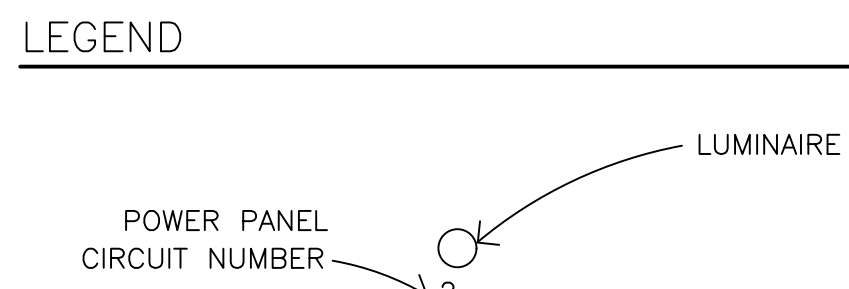
Sheet Reference Number:  
**E1.12**

Sheet 22 of 130





- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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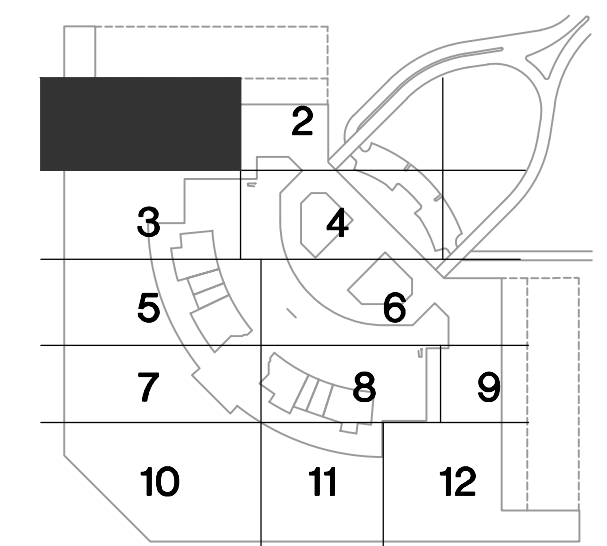


- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1).
  - EXISTING FIXTURE TO REMAIN AS IS.
  - CEILING-MOUNT PHOTO SENSOR (WIR-PHOTOCELL)

- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

MATCHLINE - SEE SHEET E2.2

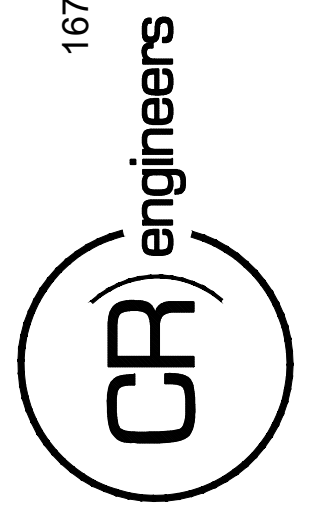
MATCHLINE - SEE SHEET E2.3



**KEY PLAN**

**A LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 1**  
SCALE: 1/16" = 1'-0"

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KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

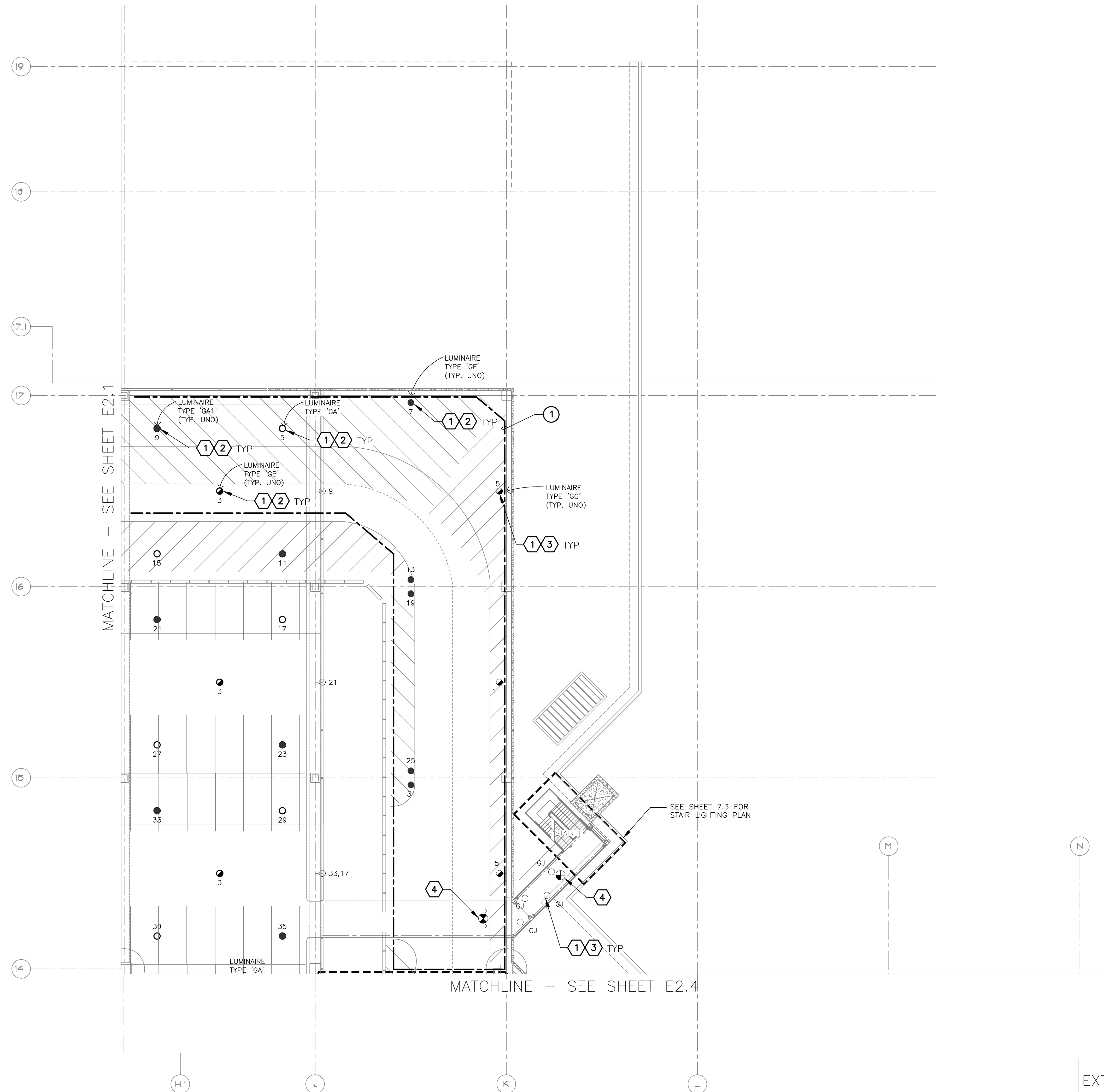
Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 2  
RENTAL CAR AREA 1**

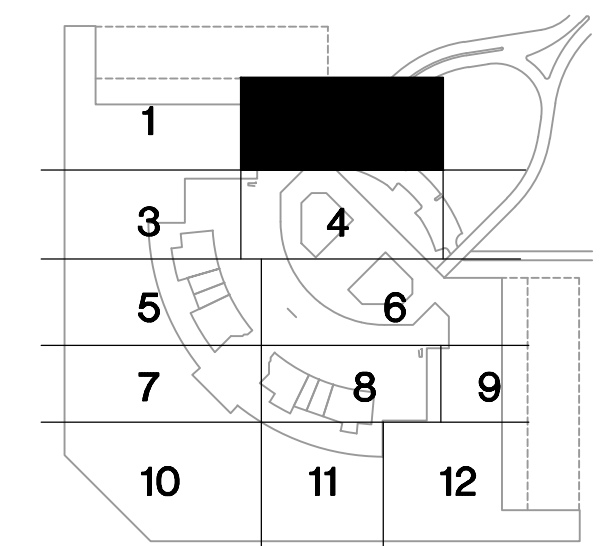
Sheet Reference Number:  
**E2.1**  
Sheet 24 of 130

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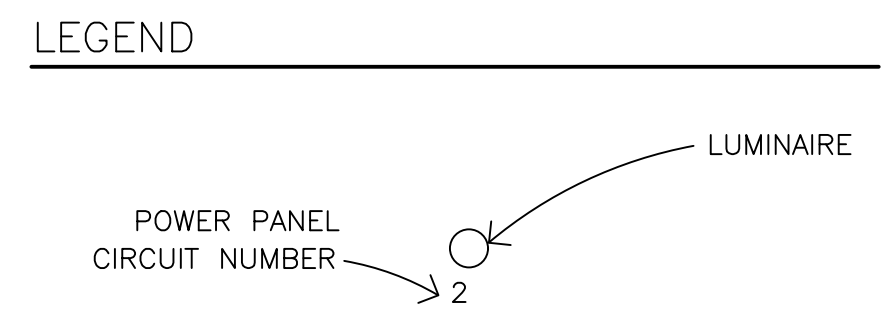


EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBEL NX.



KEY PLAN

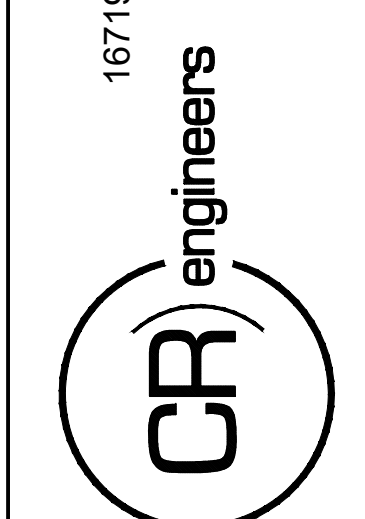
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- KEYED NOTES**
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  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE 'DETAIL A', SHEET E15.1).
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
  - EXISTING FIXTURE TO REMAIN AS IS.

- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE, ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

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KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO THE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

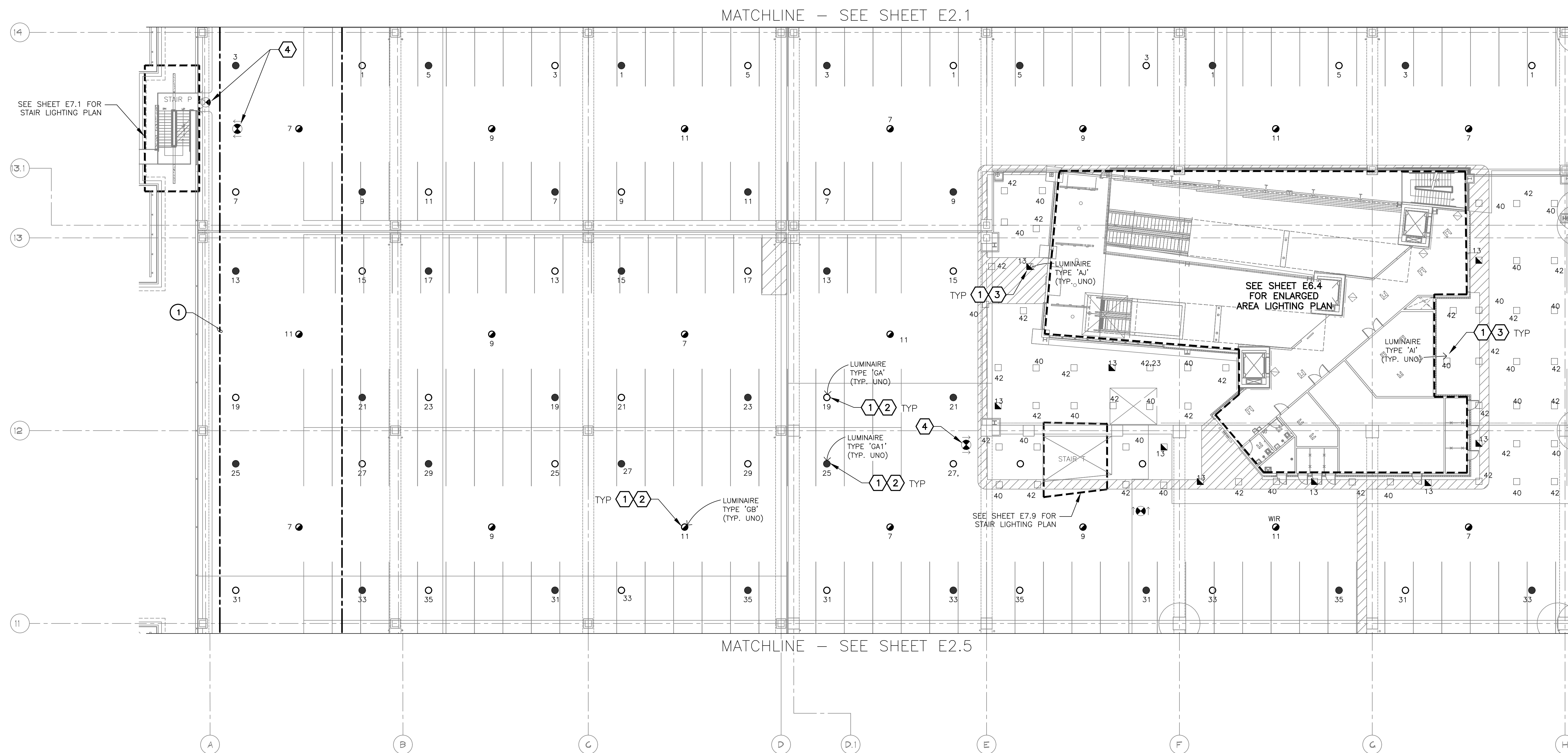
Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 2  
RENTAL CAR AREA 2**

Sheet Reference Number:  
**E2.2**  
Sheet 25 of 130

**A LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 2**  
SCALE: 1/16" = 1'-0"

C:\PROJECTS\21000\21009\_PSH\_RCC\_LED\_Light\_Retrofit\CAD\_SHEETS\17054\_E2.2\_LIGHTING\_PLAN - LEVEL 2 - RENTAL CAR AREA 2.dwg - Dec 20, 2022, 2:23pm

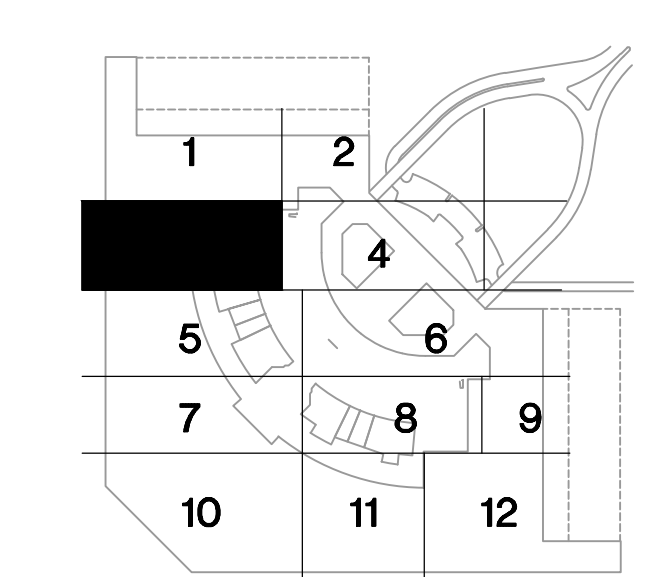


EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBEL NX.

- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

- LEGEND**
- POWER PANEL CIRCUIT NUMBER
  - LUMINAIRE

- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1).
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
  - EXISTING FIXTURE TO REMAIN AS IS.
- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.



**A LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 3**  
SCALE: 1/16" = 1'-0"

16719 East Palisades Blvd., Suite 202  
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Phone: (480) 816-5541  
Fax: (480) 816-5540  
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**CR engineers**

Professional Engineer  
36666  
CATHERINE M. ALCONR  
State of Arizona  
No. 23526

KIVA NO.:  
SDEV NO.:  
CONTRACT NO.:  
144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-238 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

**LIGHTING PLAN  
LEVEL 2  
RENTAL CAR AREA 3**

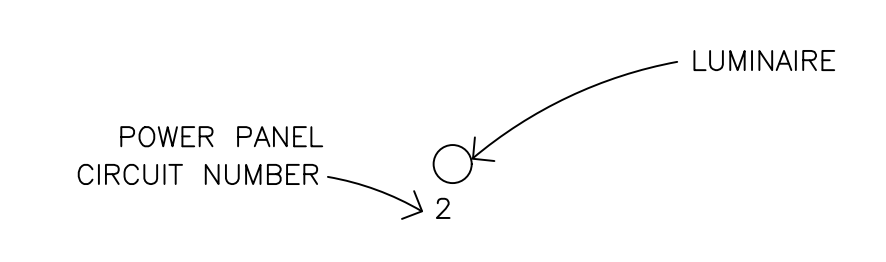
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**E2.3**

Sheet 26 of 130

**GENERAL NOTES**

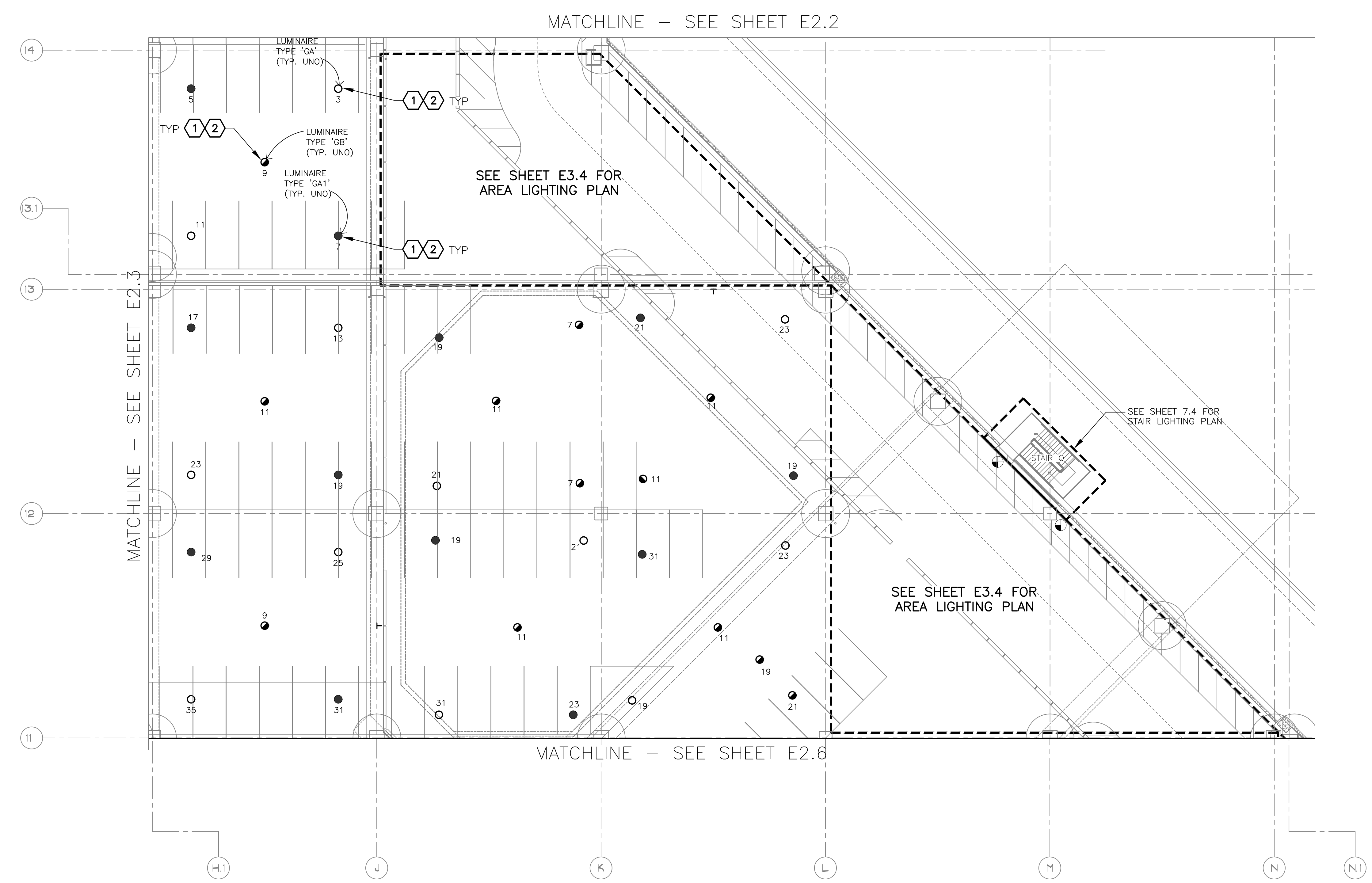
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
- ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
- ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
- ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

**LEGEND**

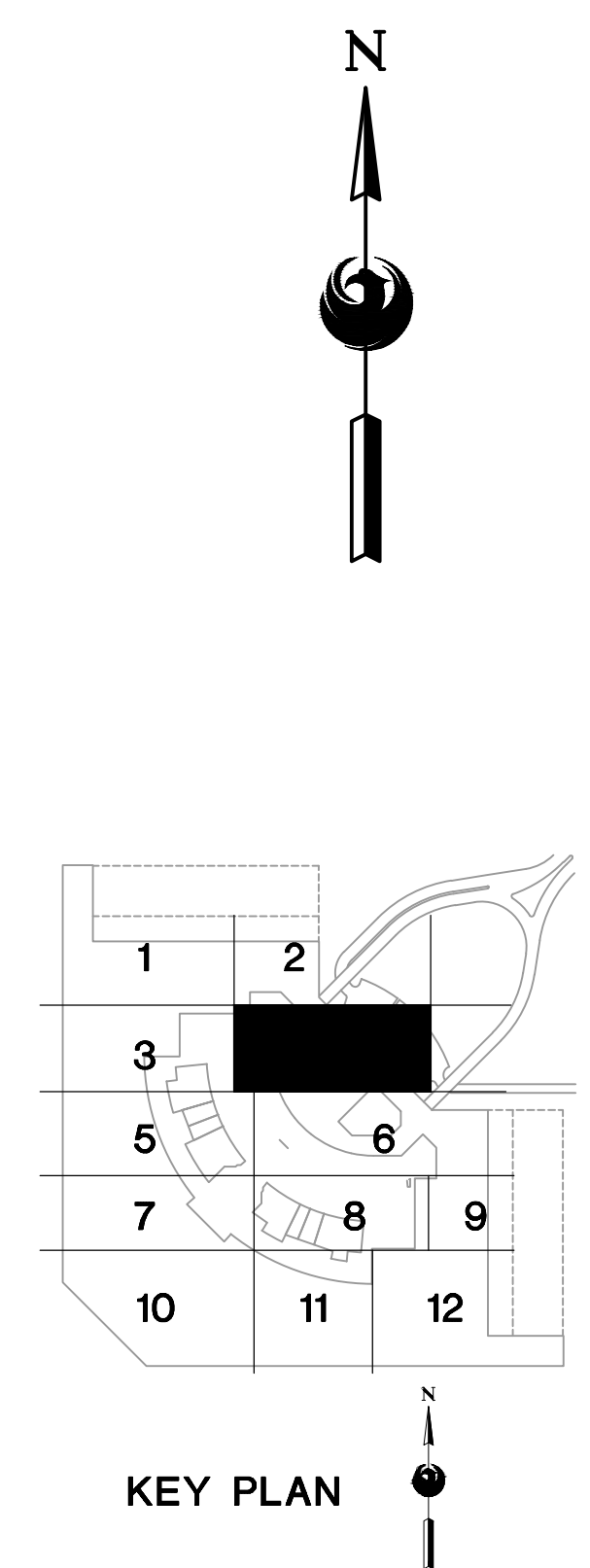


**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).

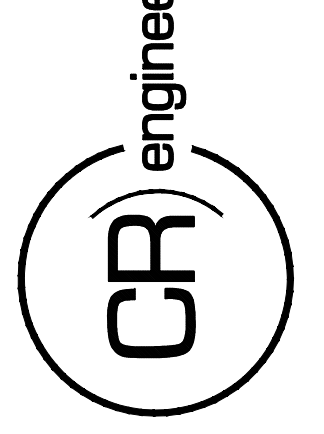


EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.



**A LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 4**  
SCALE: 1/16" = 1'-0"

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SDEV NO:  
CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 23 SECTION 23-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO THE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV15000073-1

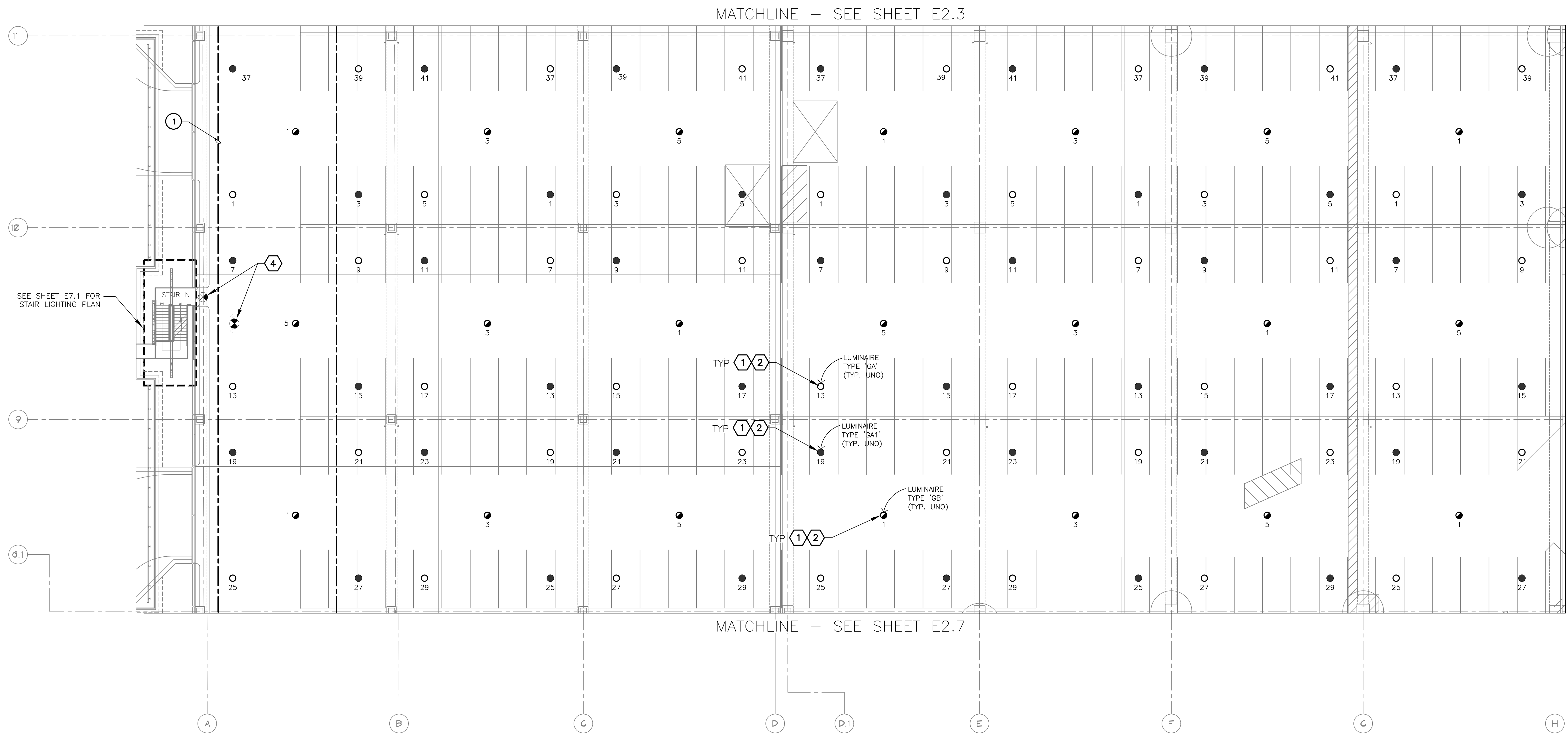
Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 2  
RENTAL CAR AREA 4**

Sheet Reference Number:  
**E2.4**  
Sheet 27 of 130

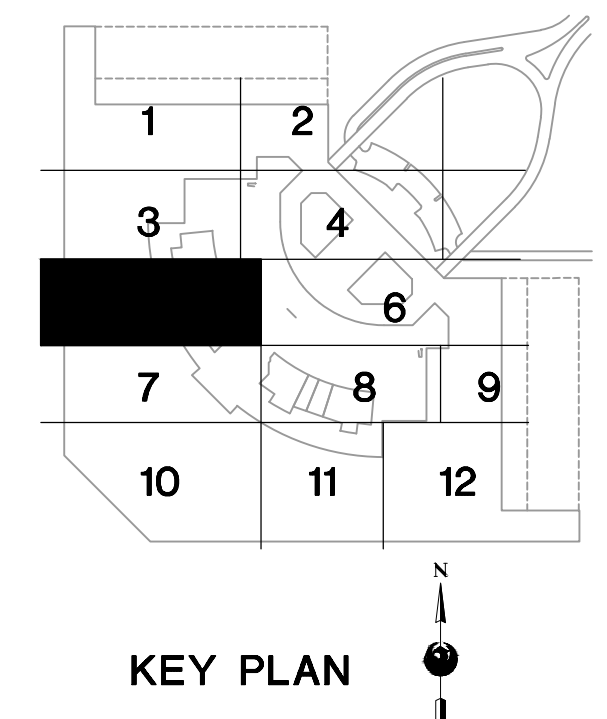
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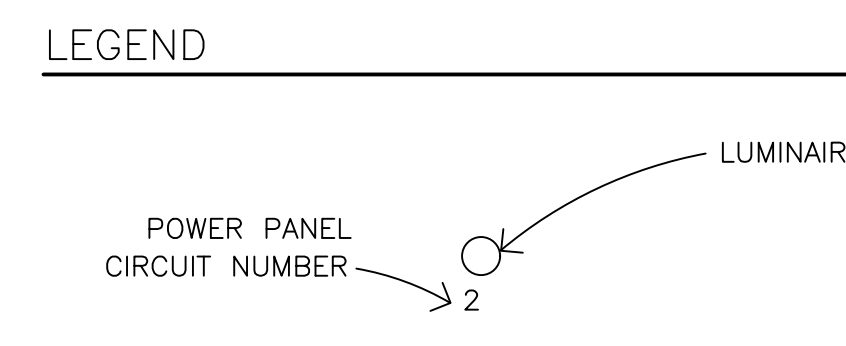
**Ⓐ LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 5**  
 SCALE: 1/16" = 1'-0"

EXTERIOR FIXTURES, AS NOTED  
 IN THE FIXTURE SCHEDULE,  
 SHALL BE CONTROLLED BY  
 HUBBELL wISCAPE. ALL  
 OTHERS SHALL BE  
 CONTROLLED BY HUBBEL NX.



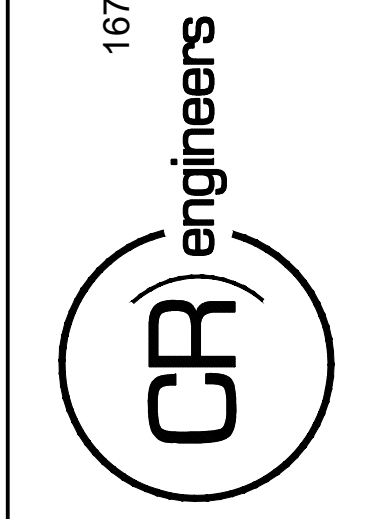
KEY PLAN

- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
  - EXISTING FIXTURE TO REMAIN AS IS.
- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

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KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY  
 CODE CHAPTER 2 SECTION  
 2-28, THESE PLANS ARE FOR  
 OFFICIAL USE ONLY AND MAY  
 NOT BE SHARED WITH OTHERS  
 EXCEPT AS REQUIRED TO  
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 WITH THE CITY OF PHOENIX.

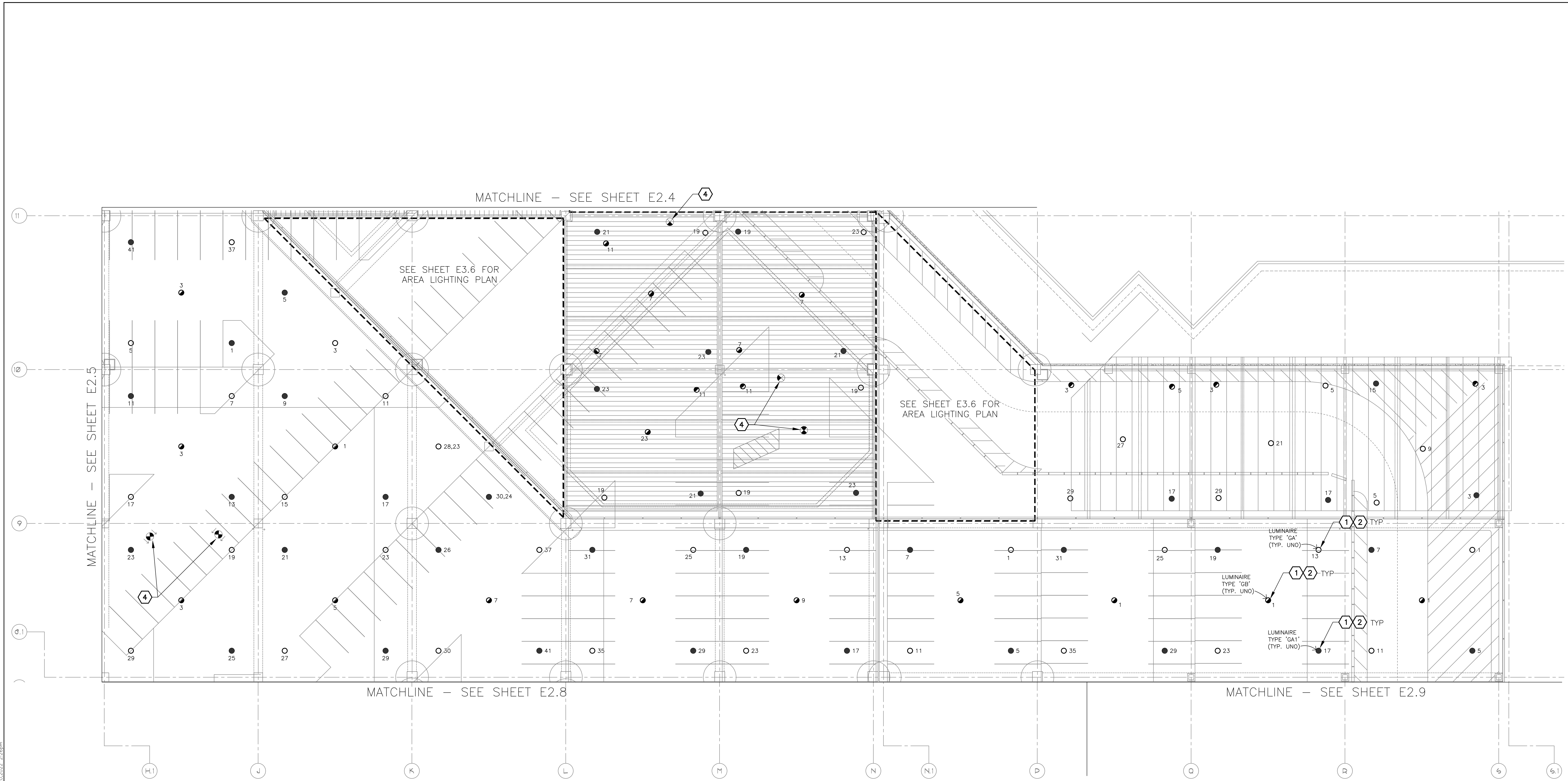
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
**AV1500073-1**

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
 LEVEL 2  
 RENTAL CAR AREA 5**

Sheet Reference Number:  
**E2.5**  
 Sheet 28 of 130



MATCHLINE - SEE SHEET E2.4

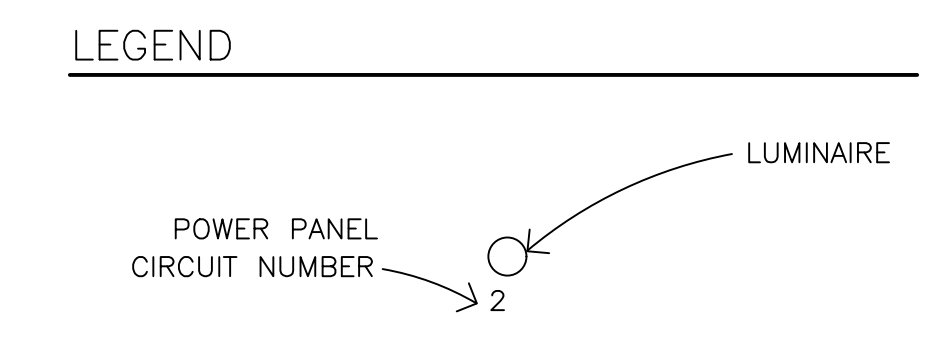
SEE SHEET E3.6 FOR AREA LIGHTING PLAN

SEE SHEET E3.6 FOR AREA LIGHTING PLAN

MATCHLINE - SEE SHEET E2.5

MATCHLINE - SEE SHEET E2.8

MATCHLINE - SEE SHEET E2.9



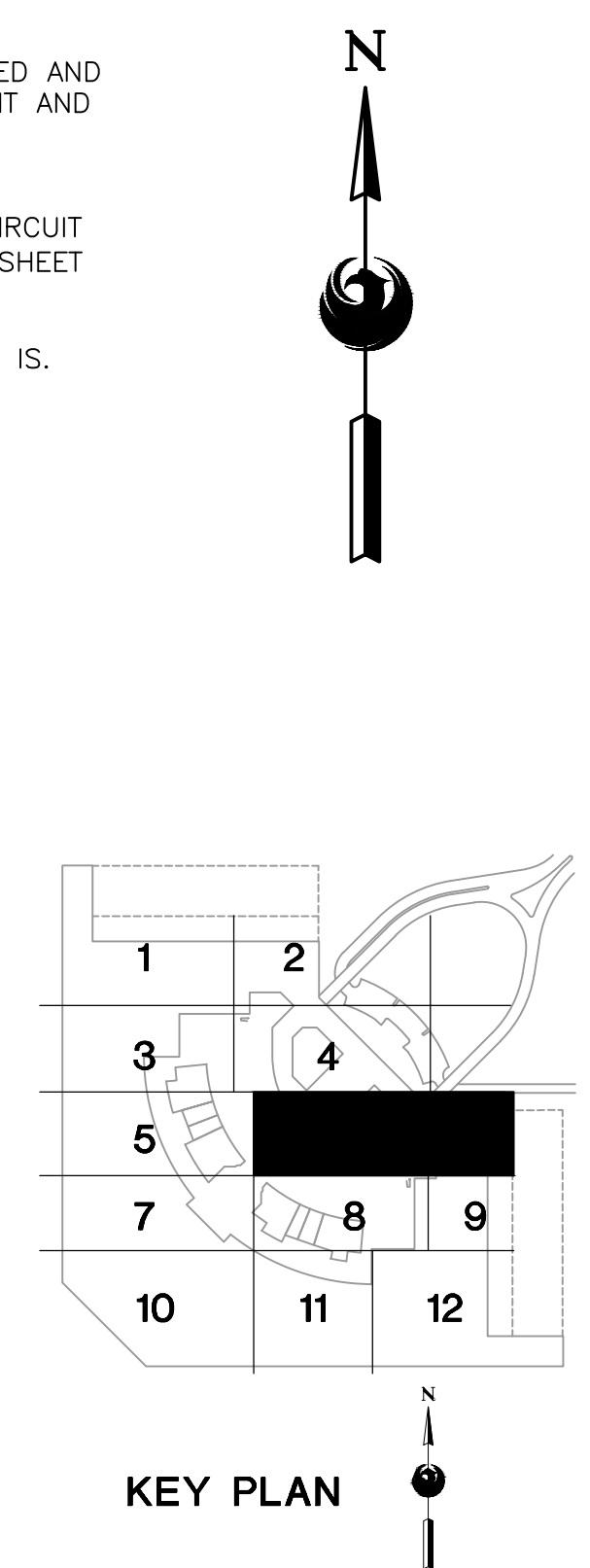
EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.

**GENERAL NOTES**

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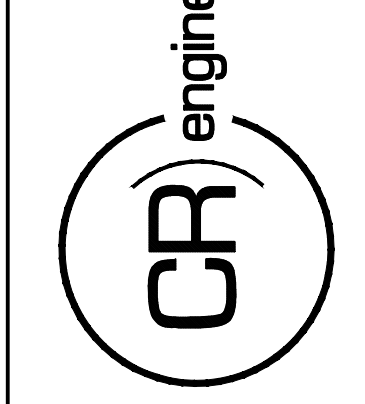
**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
- EXISTING FIXTURE TO REMAIN AS IS.



**A** LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 6  
SCALE: 1/16" = 1'-0"

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SDEV NO:  
CONTRACT NO:

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

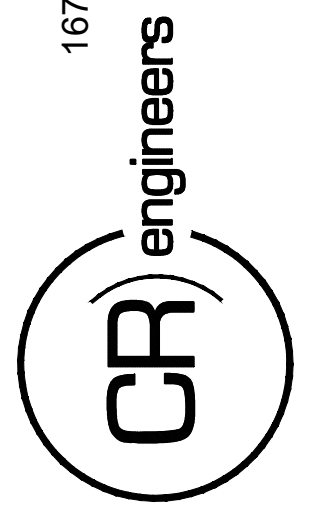
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg. scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 2  
RENTAL CAR AREA 6**

Sheet Reference Number:  
**E2.6**  
Sheet 29 of 130



KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

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NO.	REVISIONS / SUBMISSIONS	DATE

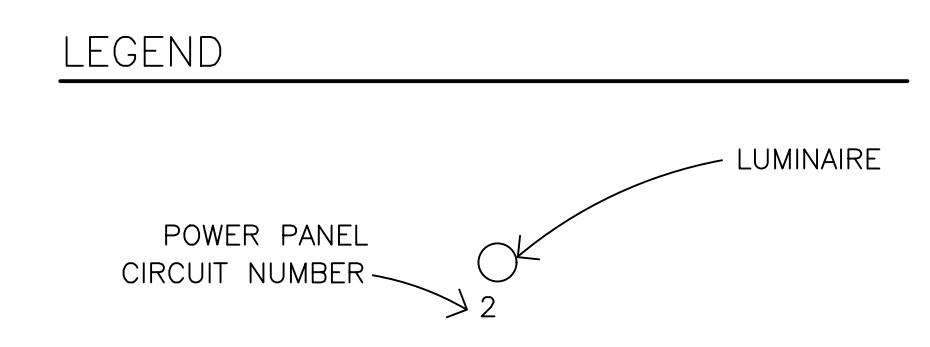
**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
 LEVEL 2  
 RENTAL CAR AREA 7**

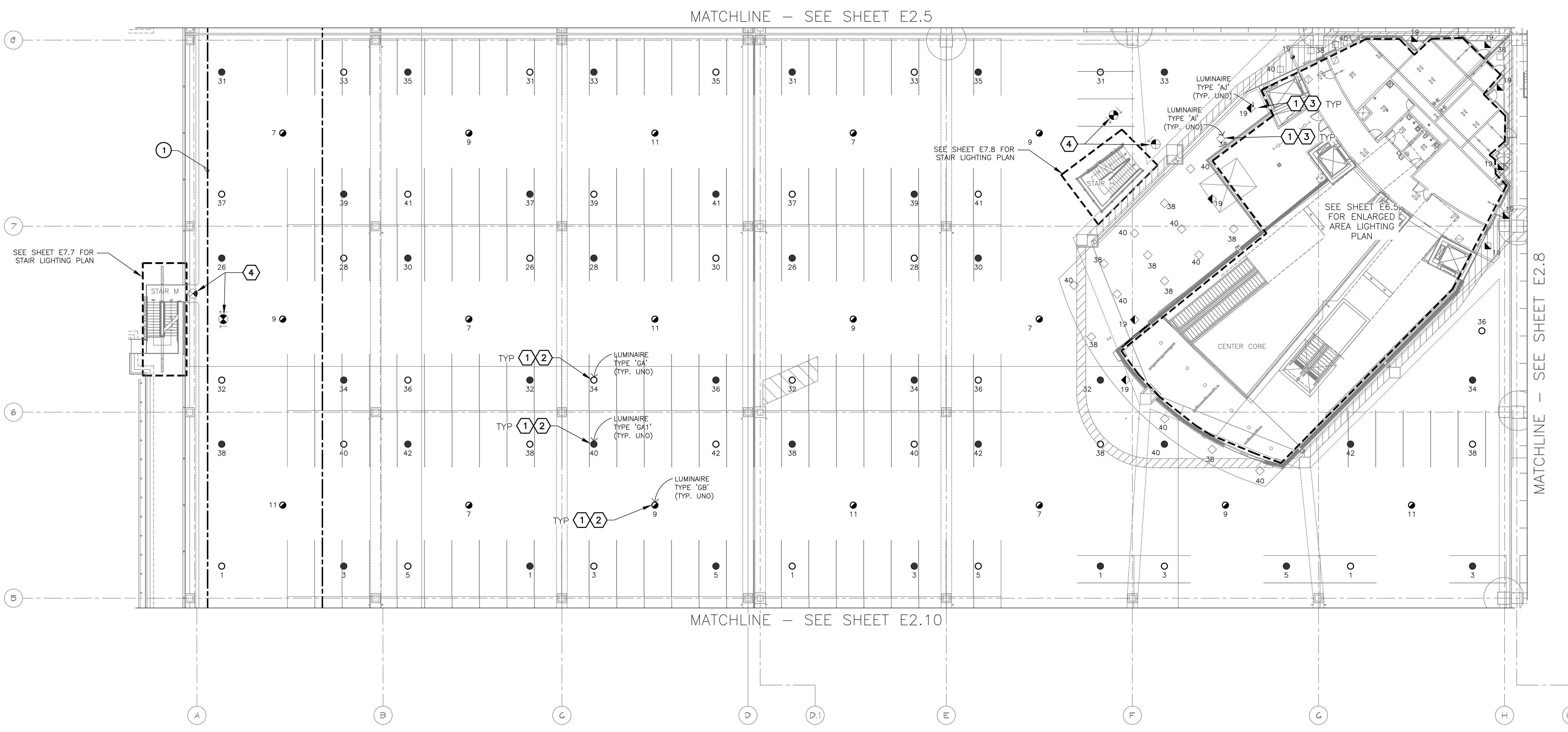
Sheet Reference Number:  
**E2.7**  
 Sheet 30 of 130

- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWINGS AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
  - EXISTING FIXTURE TO REMAIN AS IS.

- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE, ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.



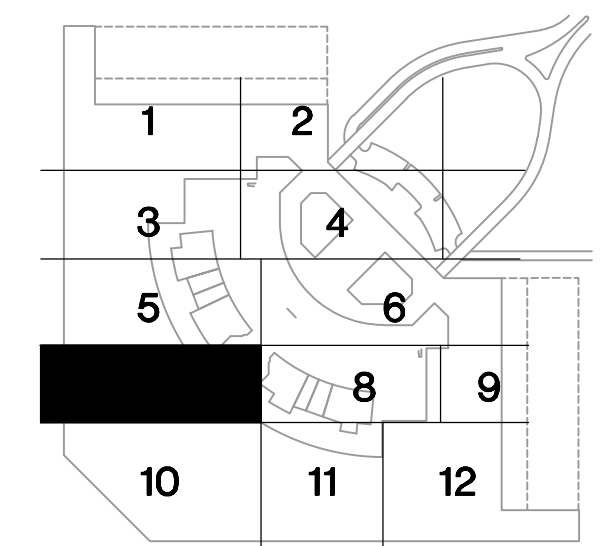
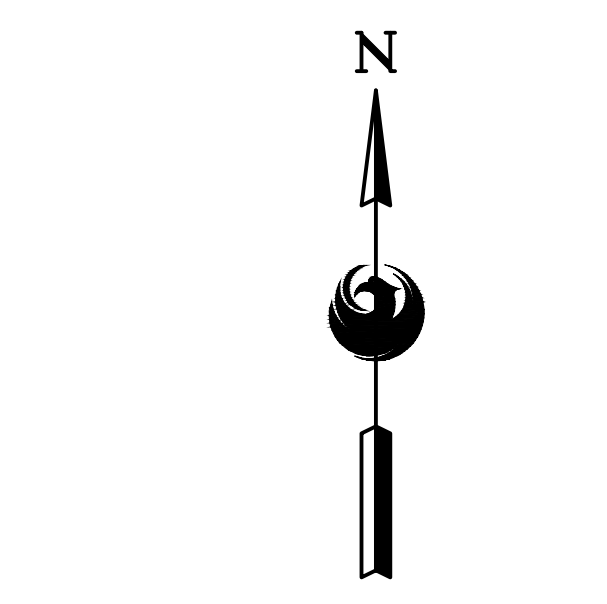
MATCHLINE - SEE SHEET E2.5

MATCHLINE - SEE SHEET E2.10

MATCHLINE - SEE SHEET E2.8

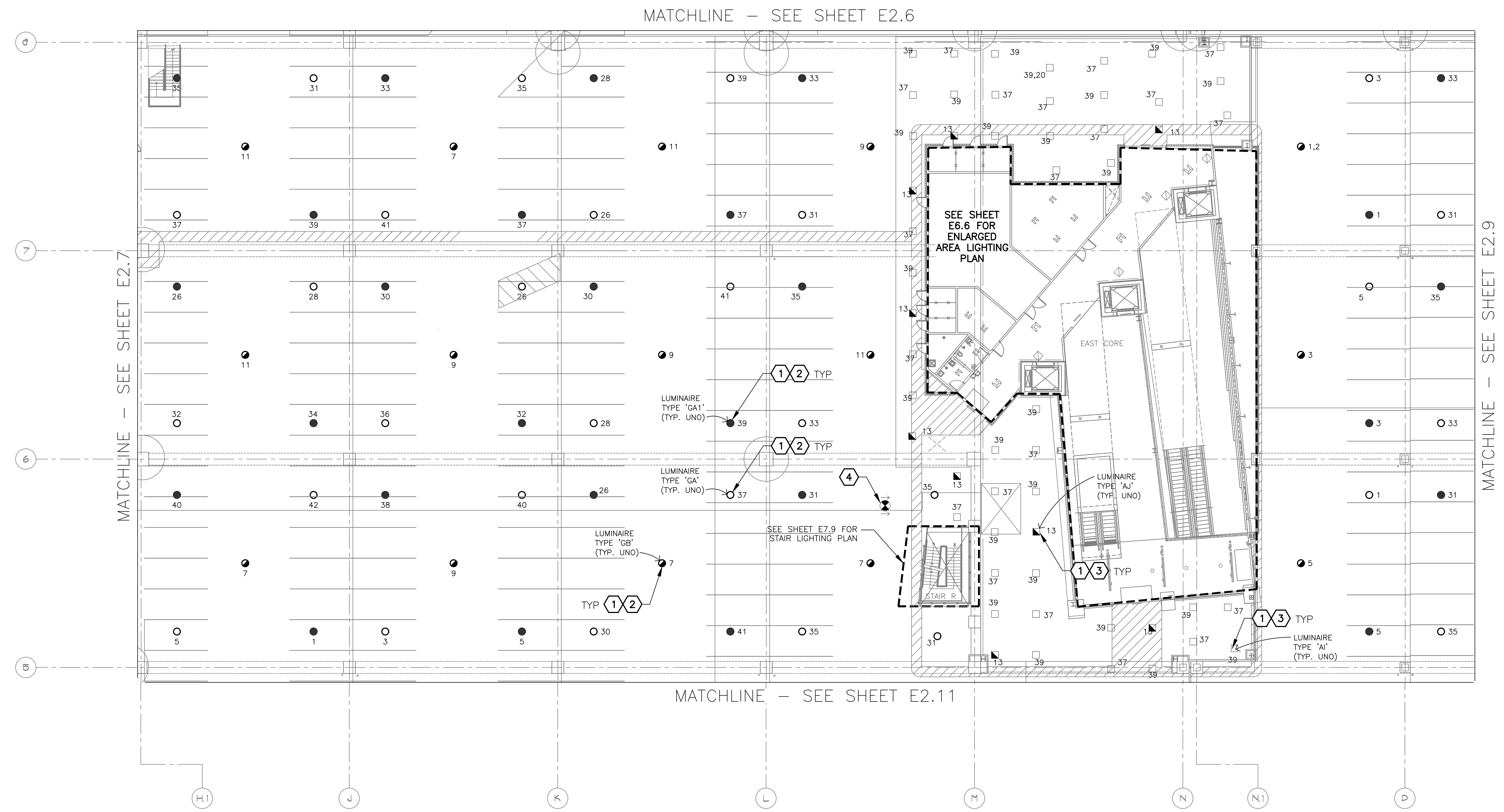
**LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 7**  
 SCALE: 1/16" = 1'-0"

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL WISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.



**KEY PLAN**

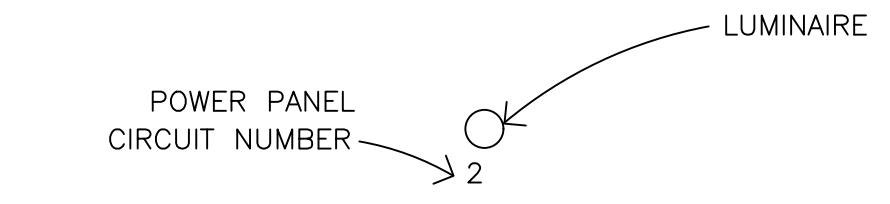
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**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
- ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

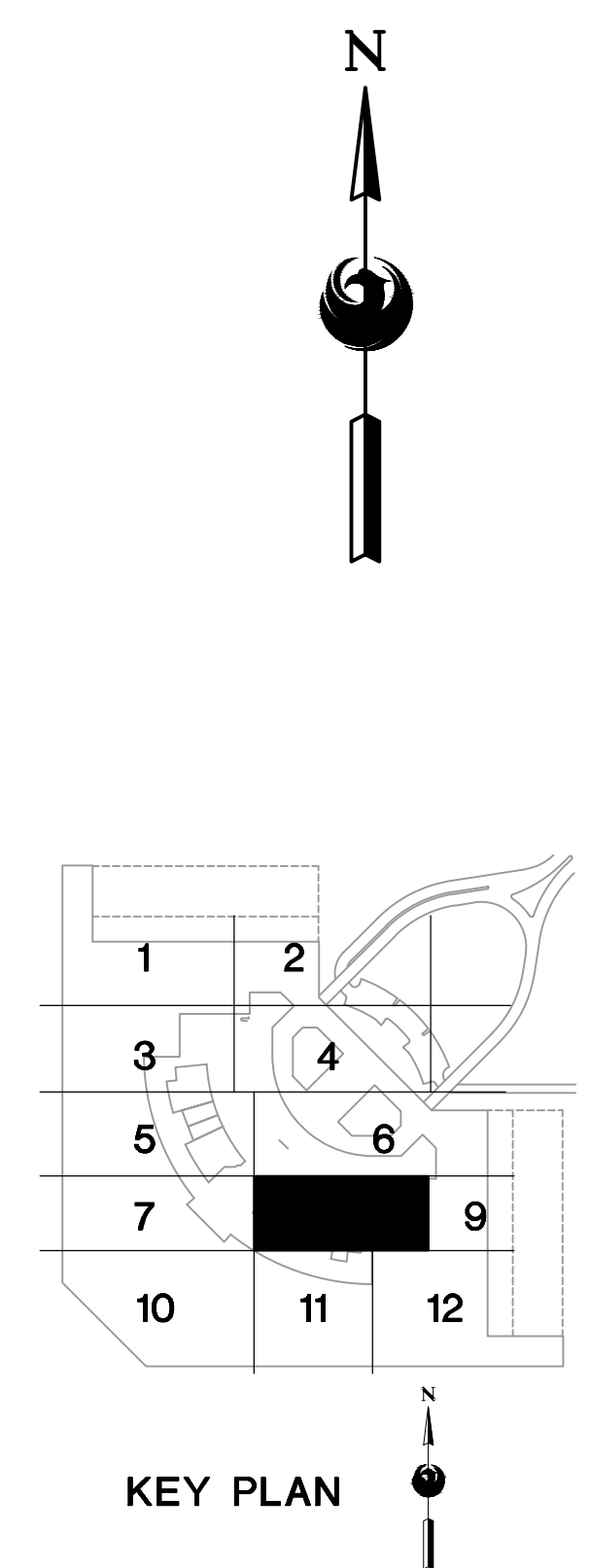
**LEGEND**



**KEYED NOTES**

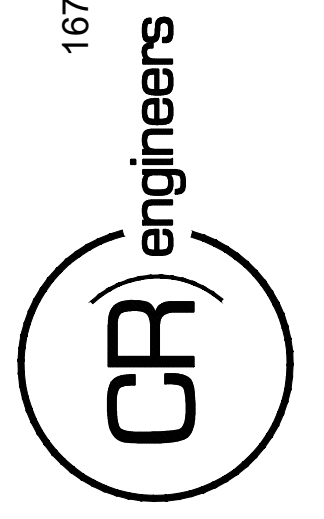
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- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
- EXISTING FIXTURE TO REMAIN AS IS

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.



**A LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 8**  
SCALE: 1/16" = 1'-0"

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KIVA NO:  
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PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

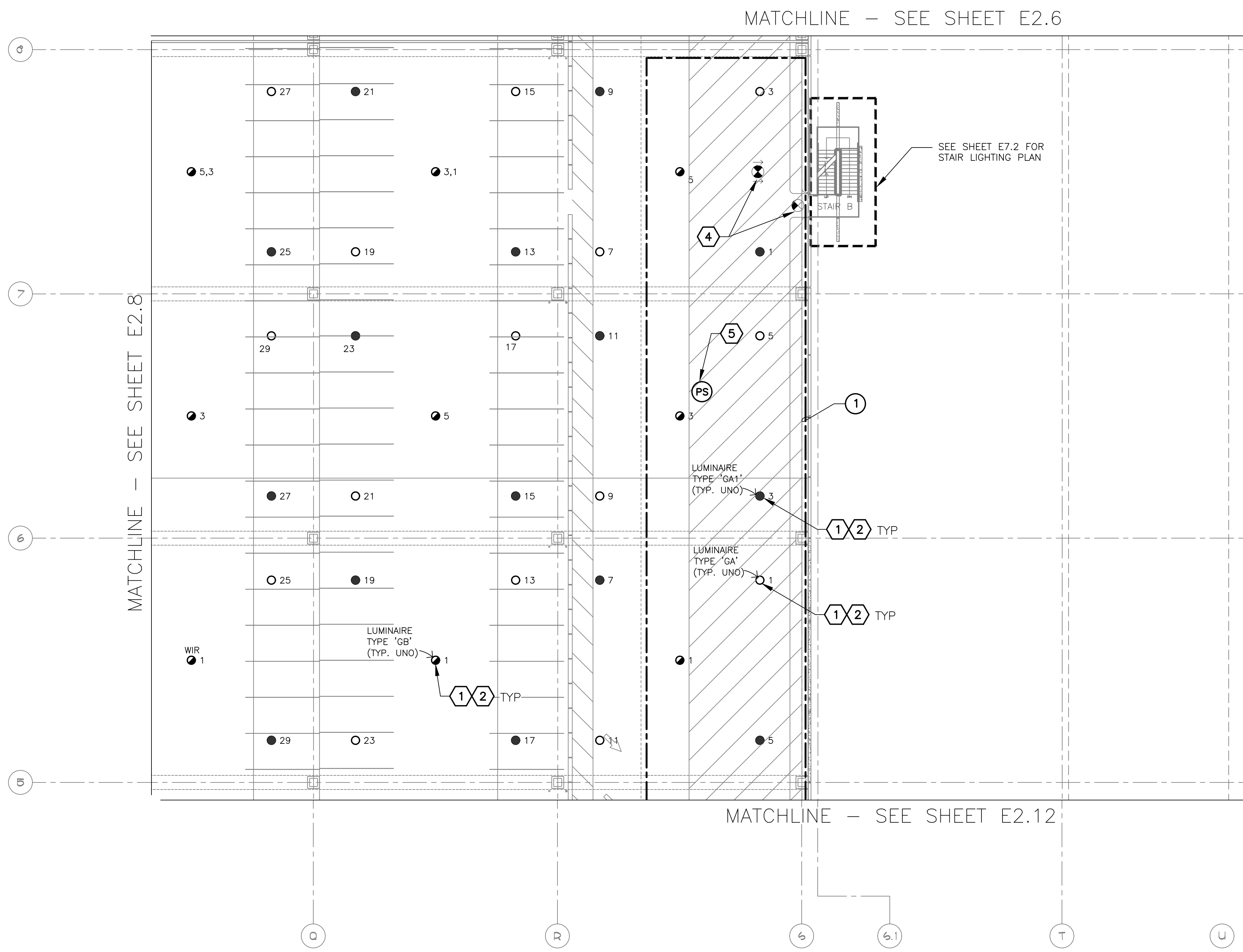
**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 2  
RENTAL CAR AREA 8**

Sheet Reference Number:  
**E2.8**  
Sheet 31 of 130

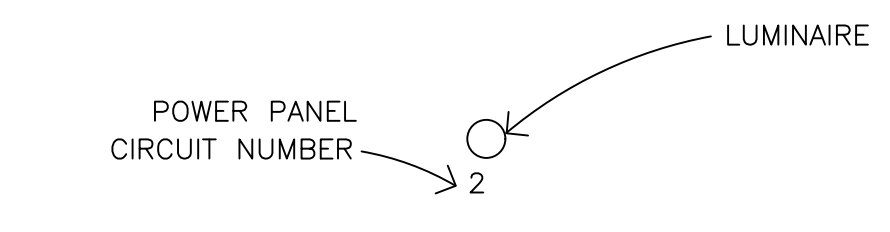
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**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
- ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
- ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
- ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

**LEGEND**



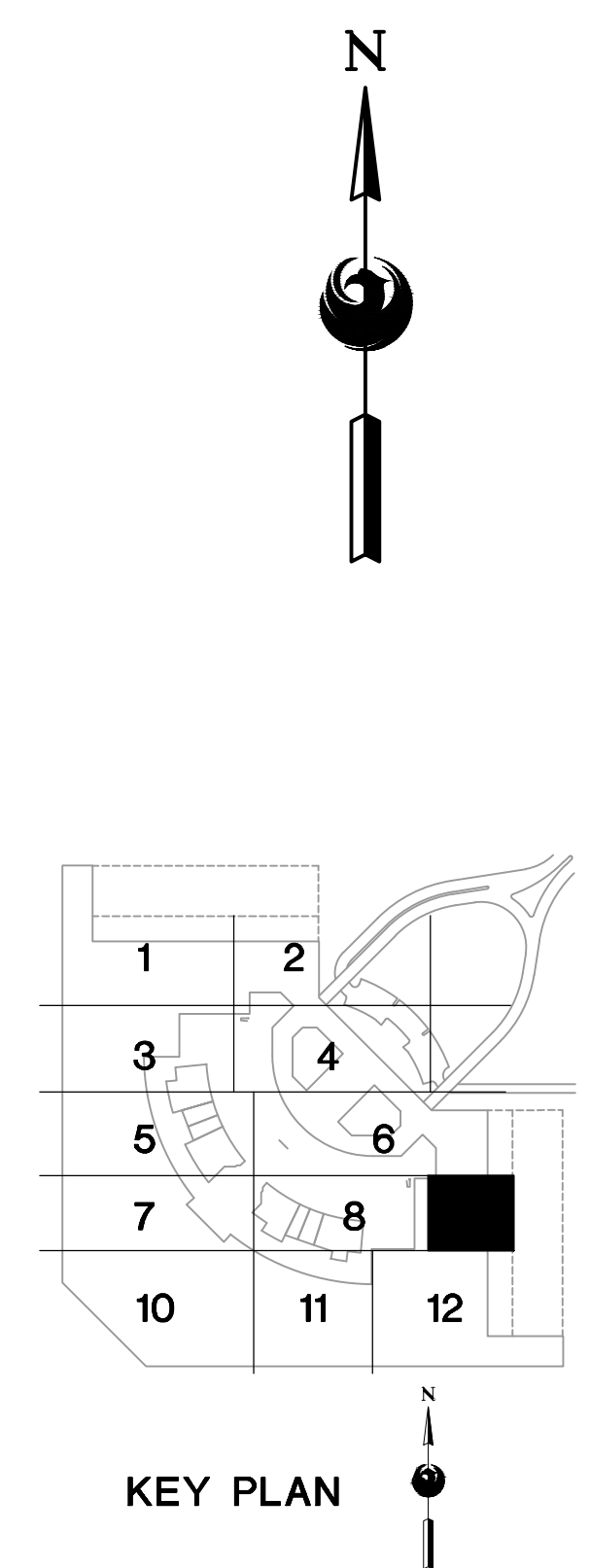
**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1).
- EXISTING FIXTURE TO REMAIN AS IS.
- CEILING-MOUNT PHOTO SENSOR (WIP PHOTOCELL)

**REFERENCE NOTES**

- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBEL NX.



**A LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 9**  
SCALE: 1/16" = 1'-0"

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
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**CR engineers**

Professional Engineer  
Catherine M. Alcorn  
3666  
State 15  
AZ 85004

KIVA NO:  
SDEV NO:  
CONTRACT NO:

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 2  
RENTAL CAR AREA 9**

Sheet Reference Number:  
**E2.9**  
Sheet 32 of 130

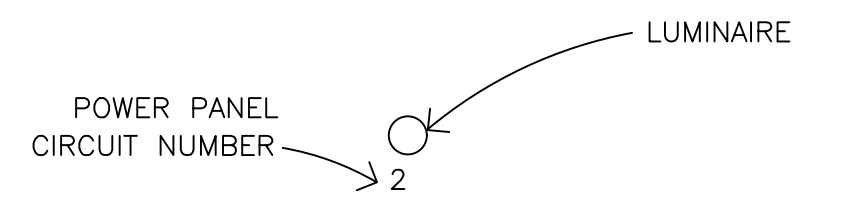


MATCHLINE - SEE SHEET E2.7

GENERAL NOTES

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LEGEND



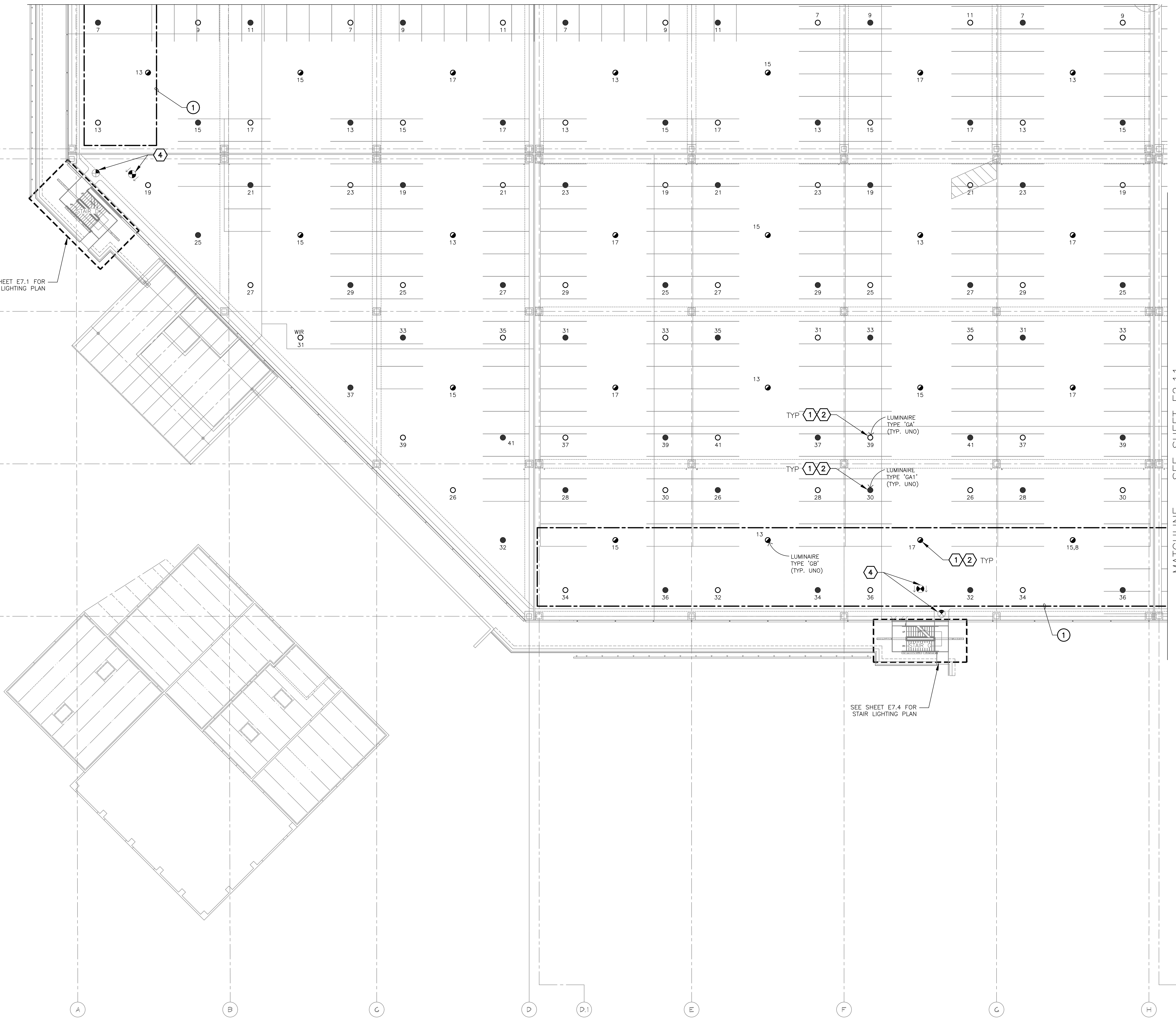
KEYED NOTES

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF - EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1)
- EXISTING FIXTURE TO REMAIN AS IS.

REFERENCE NOTES

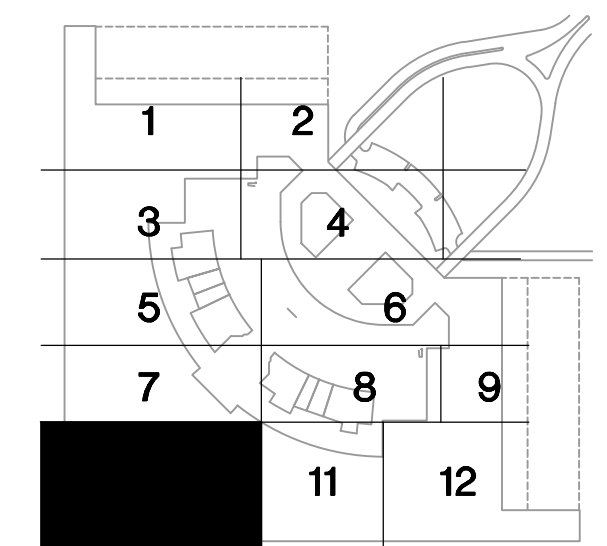
- DAYLIGHT HARVESTING ZONE, ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL WISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.



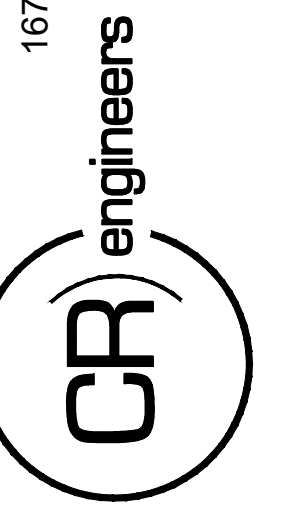
SEE SHEET E7.1 FOR STAIR LIGHTING PLAN

SEE SHEET E7.4 FOR STAIR LIGHTING PLAN



A LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 10  
SCALE: 1/16" = 1'-0"

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Fax: (480) 816-5540  
www.creng.com



KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-238 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

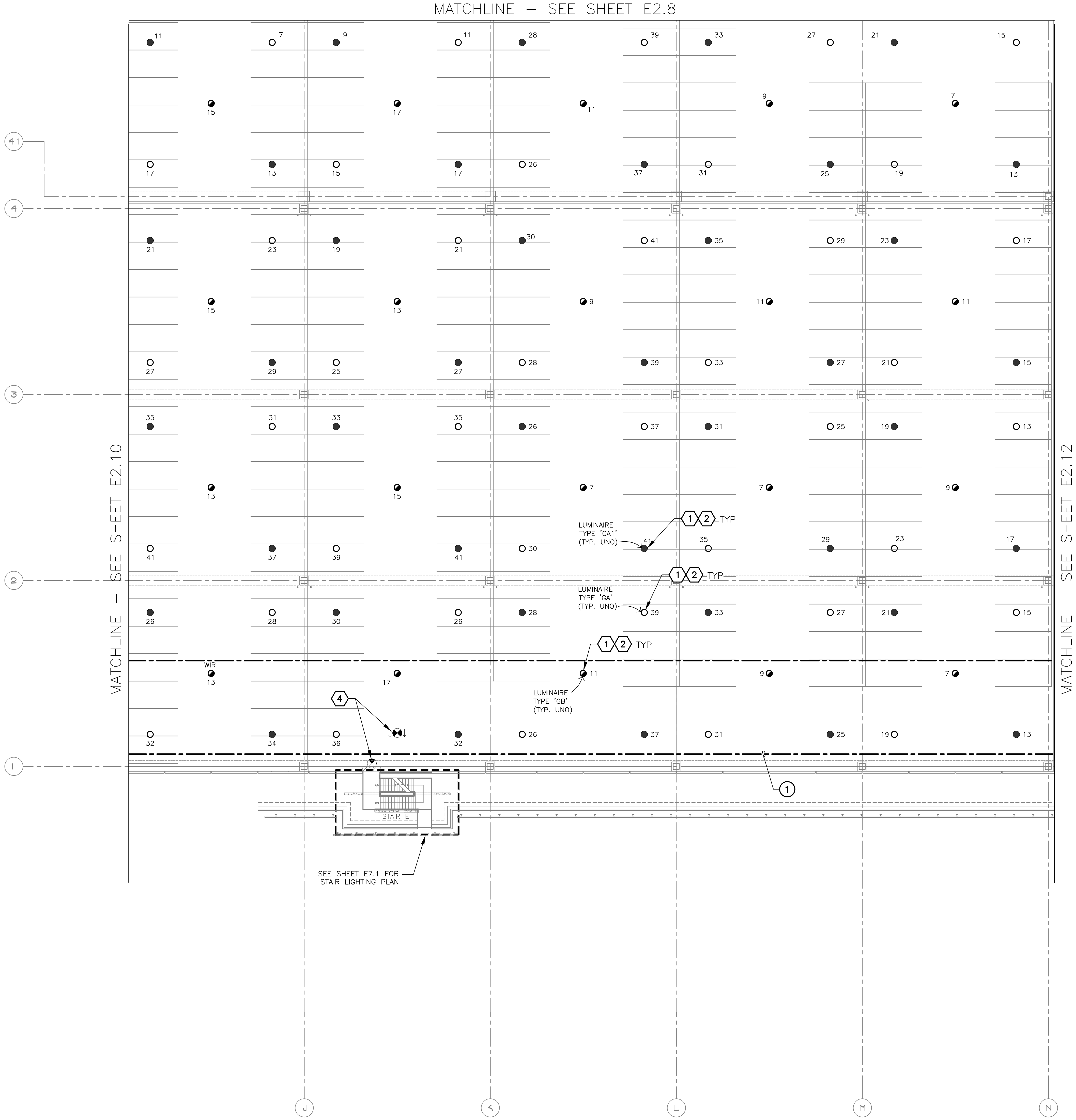
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 2  
RENTAL CAR AREA 10**

Sheet Reference Number:

**E2.10**

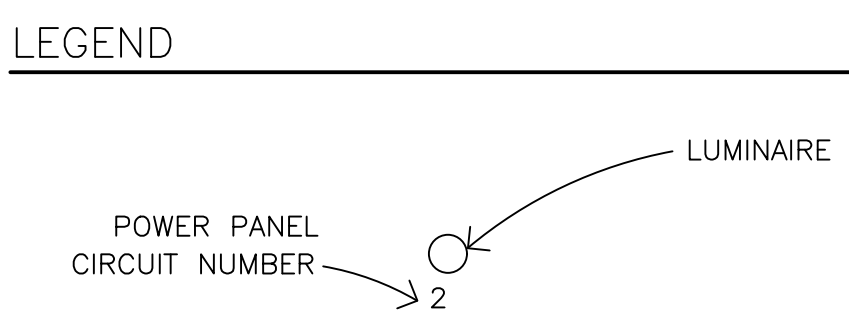
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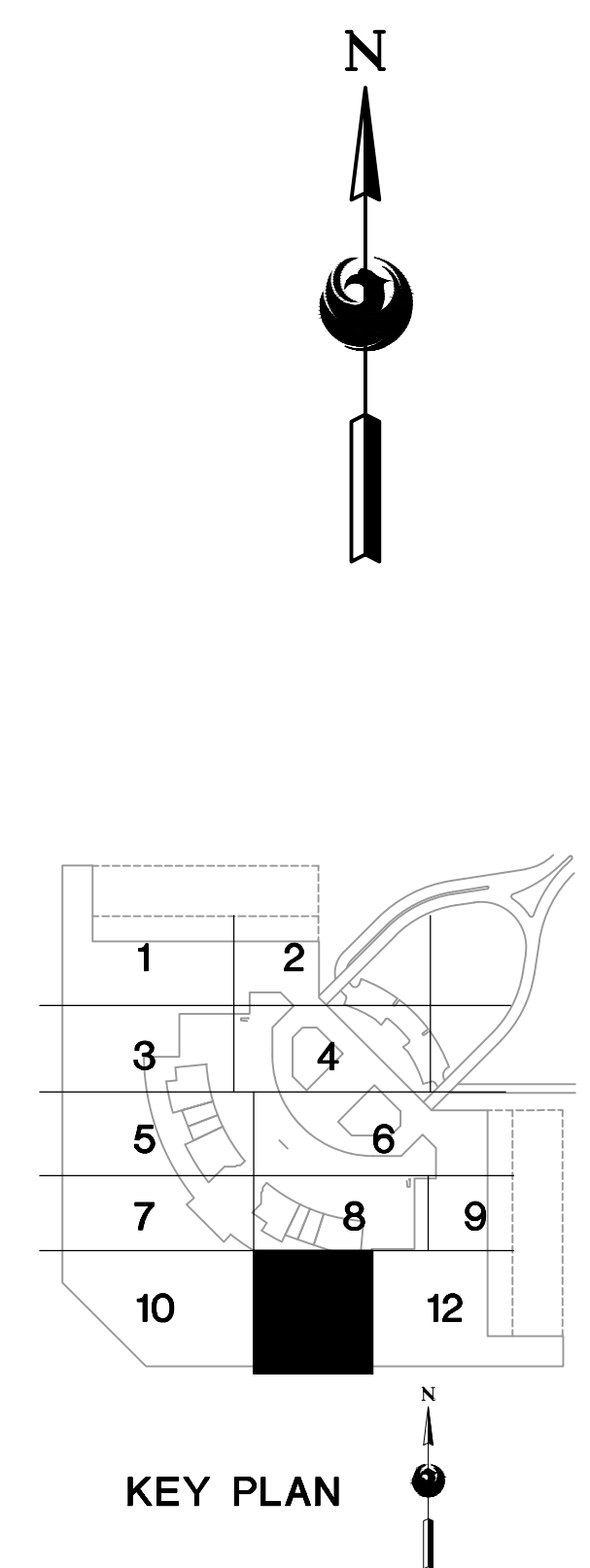
**A LIGHTING PLAN - LEVEL 2 - RENTAL CAR AREA 11**  
SCALE: 1/16" = 1'-0"

- GENERAL NOTES**
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  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
  - EXISTING FIXTURE TO REMAIN AS IS.
- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE, ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

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**CR engineers**

PROFESSIONAL ENGINEER  
CATHERINE M. ALCORN  
No. 12345  
Exp. 12/31/2024

KIVA NO.:  
SDEV NO.:  
CONTRACT NO.:  
144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTS ENTERED INTO WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

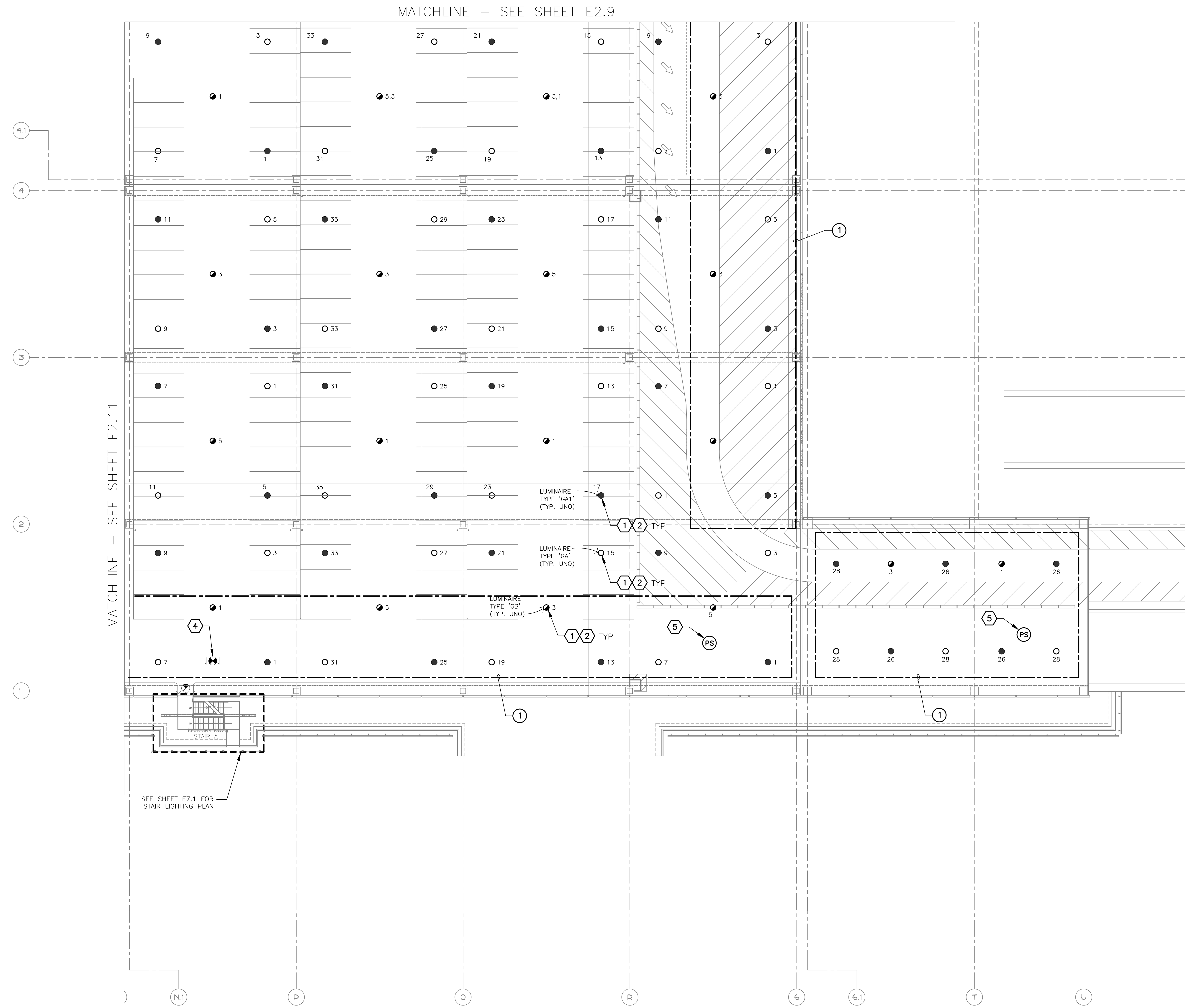
**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

**LIGHTING PLAN  
LEVEL 2  
RENTAL CAR AREA 11**

Sheet Reference Number:  
**E2.11**

Sheet 34 of 130



SEE SHEET E7.1 FOR STAIR LIGHTING PLAN

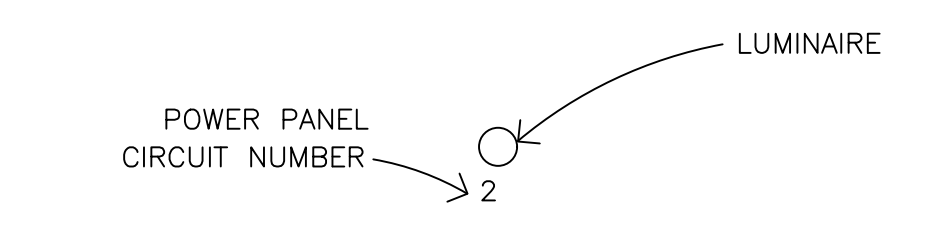
**A LIGHTING PLAN – LEVEL 2 – RENTAL CAR AREA 12**

SCALE: 1/16" = 1'-0"

**GENERAL NOTES**

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**LEGEND**



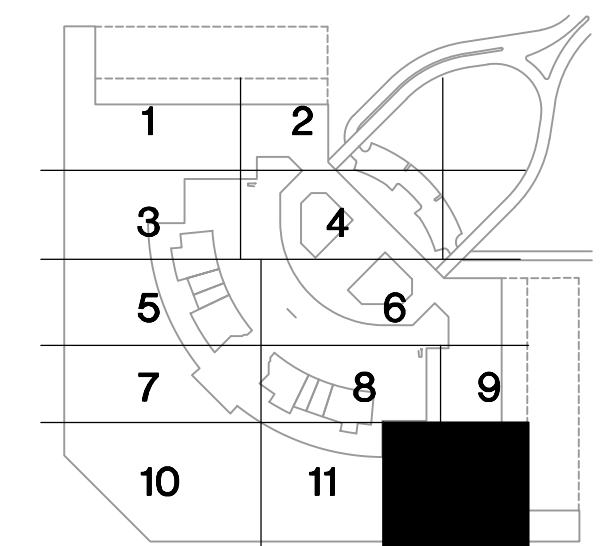
**KEYED NOTES**

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- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1).
- EXISTING FIXTURE TO REMAIN AS IS.
- CEILING-MOUNT PHOTO SENSOR (WIP-PHOTOCELL)

**REFERENCE NOTES**

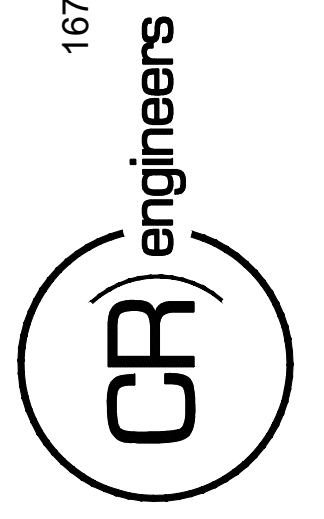
- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

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**KEY PLAN**

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com



KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 2  
RENTAL CAR AREA 12**

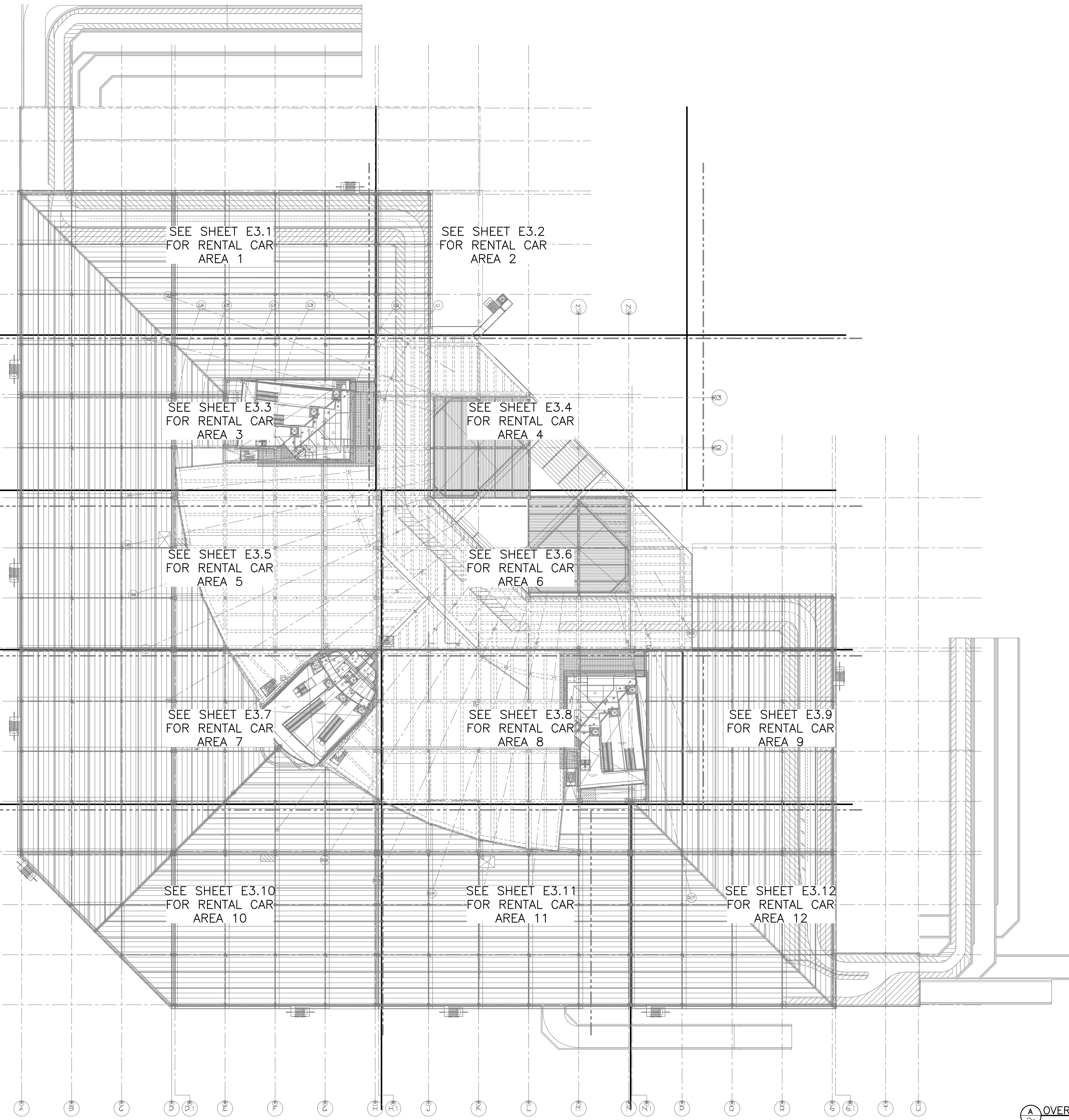
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SEE SHEET E3.1  
FOR RENTAL CAR  
AREA 1

SEE SHEET E3.2  
FOR RENTAL CAR  
AREA 2

SEE SHEET E3.3  
FOR RENTAL CAR  
AREA 3

SEE SHEET E3.4  
FOR RENTAL CAR  
AREA 4

SEE SHEET E3.5  
FOR RENTAL CAR  
AREA 5

SEE SHEET E3.6  
FOR RENTAL CAR  
AREA 6

SEE SHEET E3.7  
FOR RENTAL CAR  
AREA 7

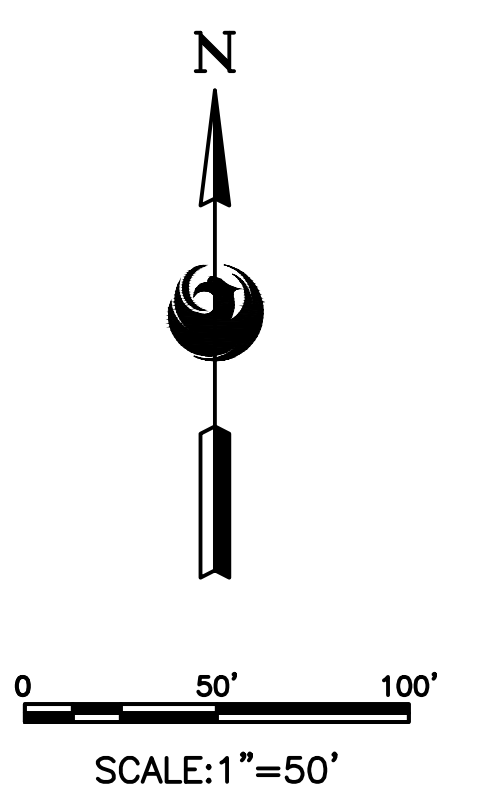
SEE SHEET E3.8  
FOR RENTAL CAR  
AREA 8

SEE SHEET E3.9  
FOR RENTAL CAR  
AREA 9

SEE SHEET E3.10  
FOR RENTAL CAR  
AREA 10

SEE SHEET E3.11  
FOR RENTAL CAR  
AREA 11

SEE SHEET E3.12  
FOR RENTAL CAR  
AREA 12



**A** OVERALL LIGHTING PLAN - LEVEL 3

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
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Fax: (480) 816-5540  
www.creng.com

**CR engineers**

INTERNATIONAL PROFESSIONAL ENGINEERS  
CATHY M. ALCORN  
30696  
STATE OF ARIZONA  
Professional Engineer License No. 12000

KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY  
CODE CHAPTER 2 SECTION  
2-28, THESE PLANS ARE FOR  
OFFICIAL USE ONLY AND MAY  
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EXCEPT AS REQUIRED TO  
COMPLETE CONTRACT  
WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

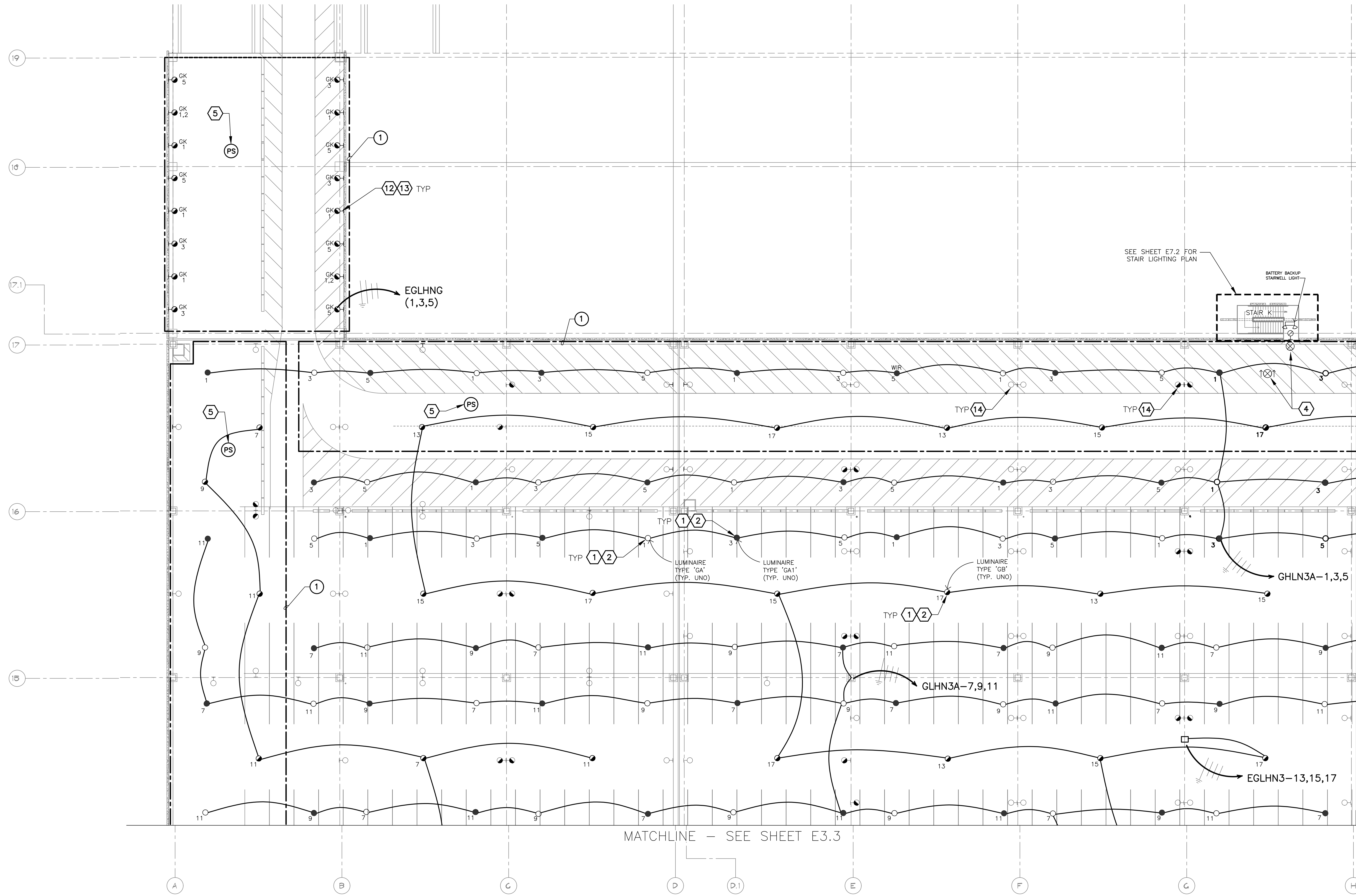
**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV15000073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**OVERALL LIGHTING PLAN  
LEVEL 3**

Sheet Reference Number:  
**E3.0**

Sheet 36 of 130

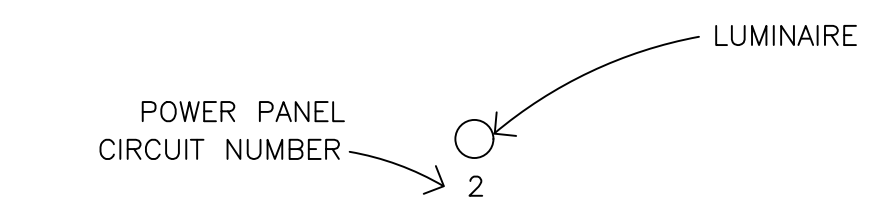


EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBEL NX.

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**LEGEND**

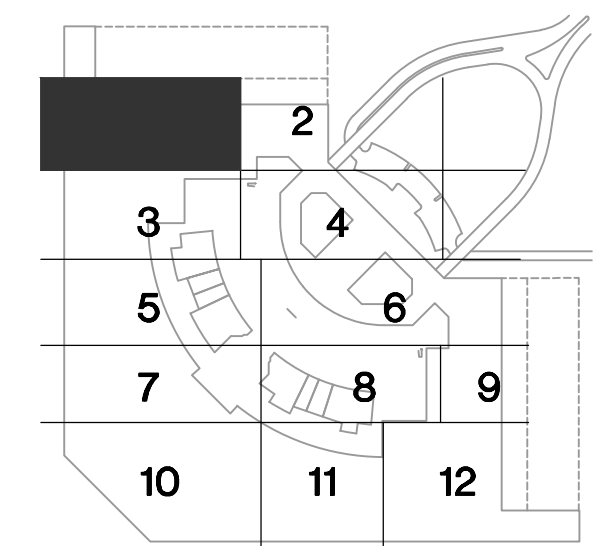


**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1).
- EXISTING FIXTURE TO REMAIN AS IS.
- CEILING-MOUNT PHOTO SENSOR (SENSORSWITCH HCM ADCX OR APPROVED EQUAL)
- EXISTING FIXTURE INTERNAL COMPONENTS TO BE REMOVED AND DISPOSED OF. FIXTURE HOUSING TO REMAIN.
- NEW FIXTURE TO BE INSTALLED TO EXISTING FIXTURE HOUSING.
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. CONDUIT AND CONDUCTORS TO BE REMOVED BACK TO NEAREST JUNCTION BOX.

**REFERENCE NOTES**

- DAYLIGHT HARVESTING ZONE, ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.

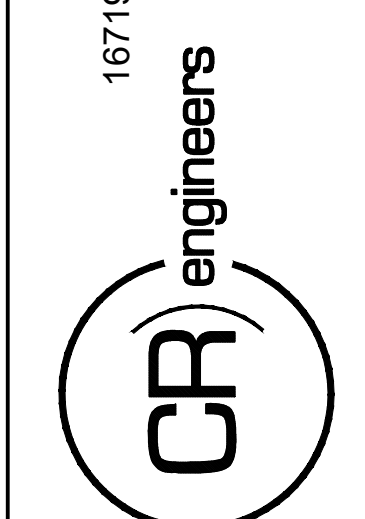


**KEY PLAN**

**A LIGHTING PLAN - LEVEL 3 - RENTAL CAR AREA 1**

SCALE: 1/16" = 1'-0"

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com



KIVA NO:  
SDEV NO:  
CONTRACT NO:

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 3  
RENTAL CAR AREA 1**

Sheet Reference Number:

**E3.1**

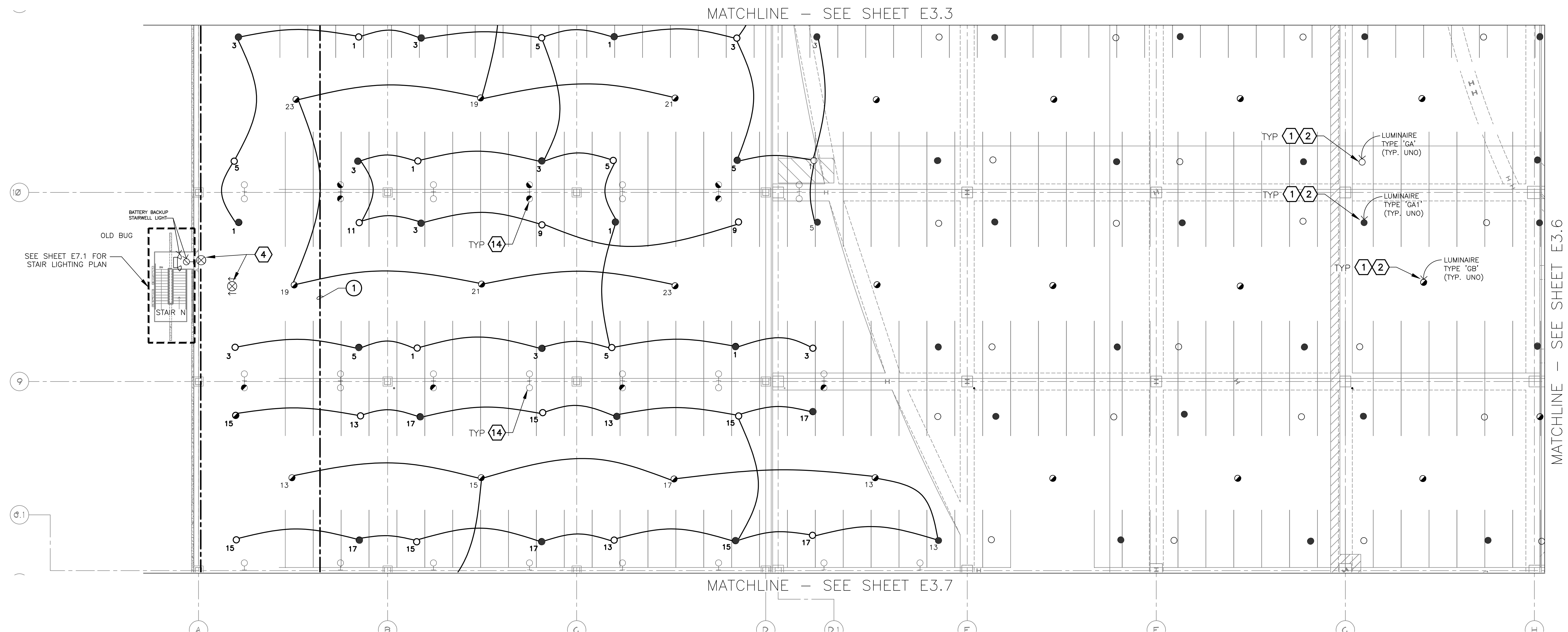






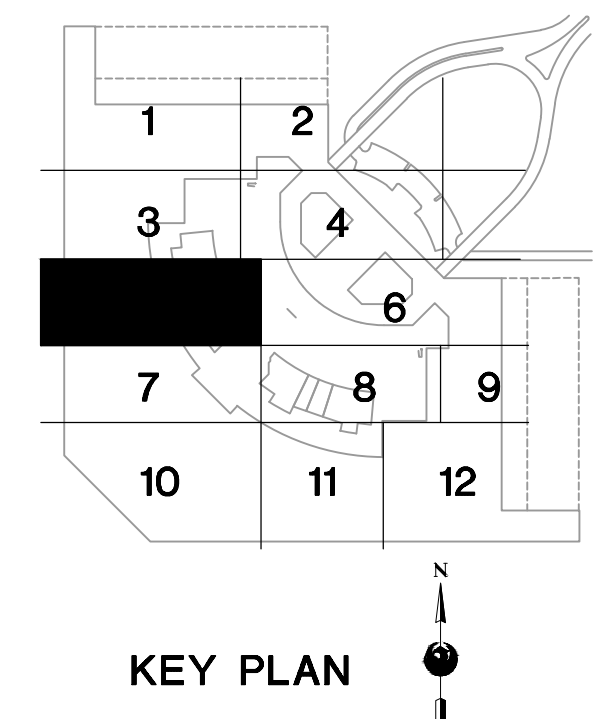


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- GENERAL NOTES**
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- LEGEND**
- POWER PANEL CIRCUIT NUMBER → 2
- LUMINAIRE
- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET E15.1)
  - EXISTING FIXTURE TO REMAIN AS IS.
  - EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. CONDUIT AND CONDUCTORS TO BE REMOVED BACK TO NEAREST JUNCTION BOX.
- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.



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Phone: (480) 816-5541  
Fax: (480) 816-5540  
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KIVA NO: \_\_\_\_\_

SDEV NO: \_\_\_\_\_

CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO. \_\_\_\_\_

REVISIONS / SUBMISSIONS

DATE

PHX DVI EYE  
CITY OF PHOENIX AVIATION DEPARTMENT

PSHIA RENTAL CAR LED LIGHT RETROFIT

AV1500073-1

Designed by: RD

Drawn by: JBW

Checked by: CA

Date: 12/22/2022

Dwg scale: AS NOTED

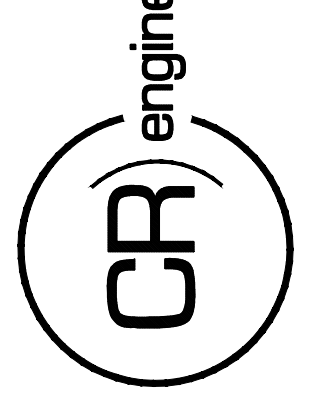
PSHIA RENTAL CAR LED LIGHT RETROFIT

**LIGHTING PLAN  
LEVEL 3  
RENTAL CAR AREA 5**

Sheet Reference Number:

**E3.5**

Sheet 41 of 130



KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-238, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

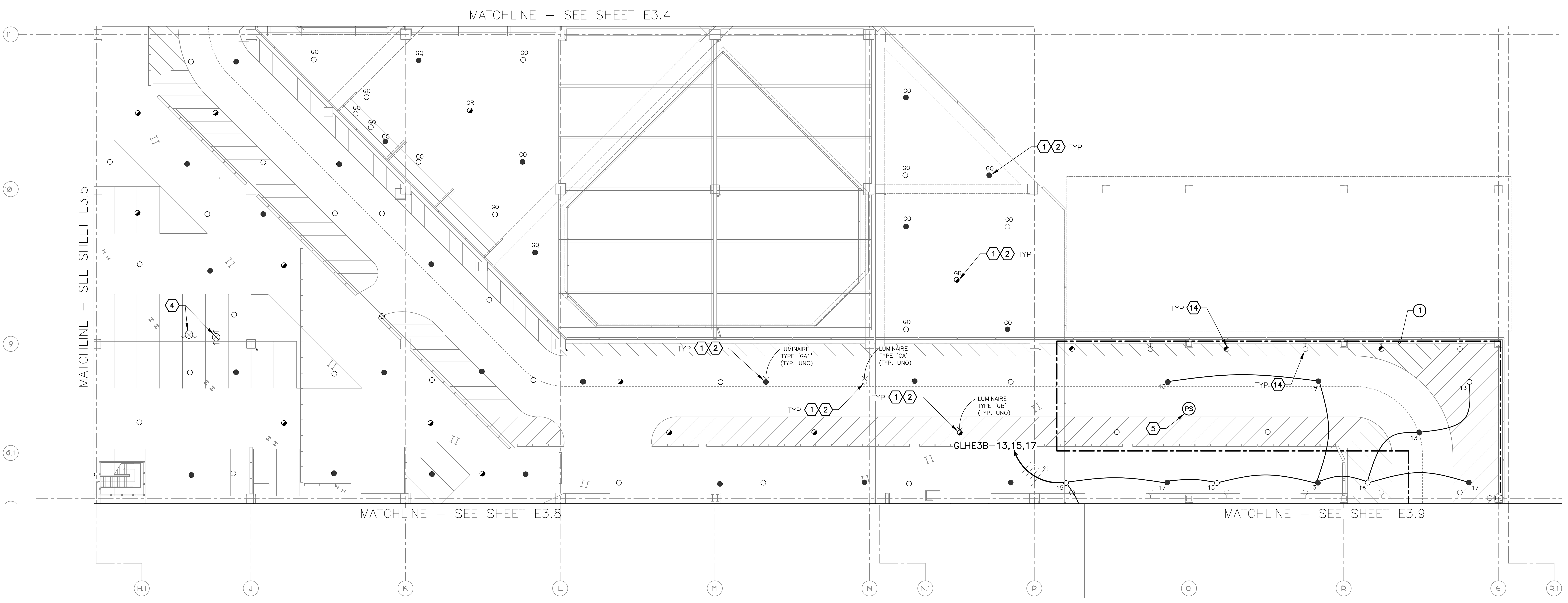
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

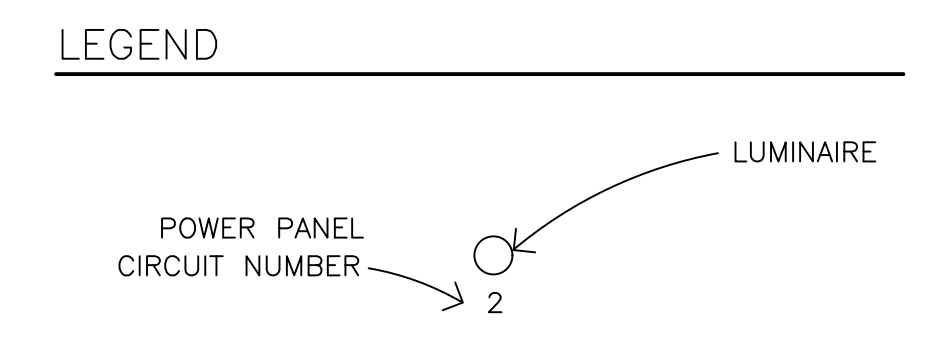
Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg. scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
 LEVEL 3  
 RENTAL CAR AREA 6**

Sheet Reference Number:  
**E3.6**  
 Sheet 42 of 130



EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL WISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.



**GENERAL NOTES**

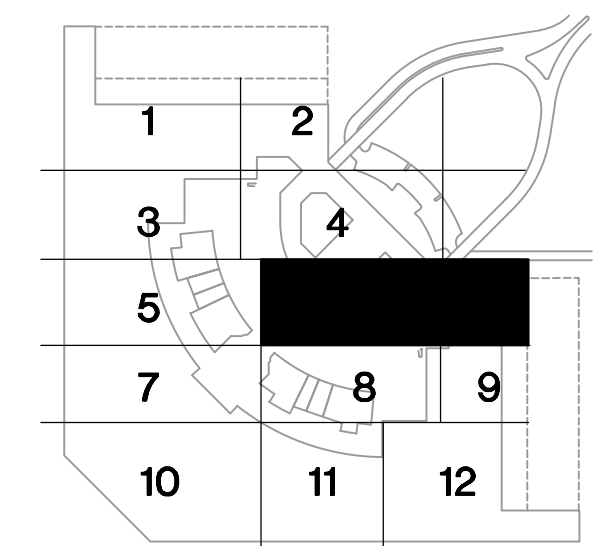
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
- ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
- ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
- ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1).
- EXISTING FIXTURE TO REMAIN AS IS.
- CEILING-MOUNT PHOTO SENSOR (WIR-PHOTOCELL)
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. CONDUIT AND CONDUCTORS TO BE REMOVED BACK TO NEAREST JUNCTION BOX.

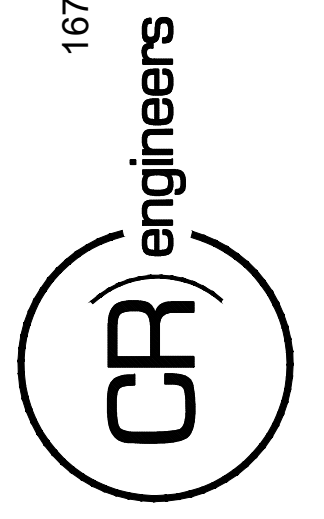
**REFERENCE NOTES**

- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.



**LIGHTING PLAN - LEVEL 3 - RENTAL CAR AREA 6**  
 SCALE: 1/16" = 1'-0"

C:\PROJECTS\21000\21009\_PHX\_LED\_Light\_Retrofit\CAD\_SHEETS\17004\_E1.6\_LIGHTING\_PLAN - LEVEL 3 - RENTAL\_CAR\_AREA\_6.dwg - Dec 20, 2022, 2:58pm



KIVA NO:  
 SDEV NO:  
 CONTRACT NO:  
 144038

PER CITY OF PHOENIX CITY  
 CODE CHAPTER 2 SECTION  
 2-238 THESE PLANS ARE FOR  
 OFFICIAL USE ONLY AND MAY  
 NOT BE SHARED WITH OTHERS  
 EXCEPT AS REQUIRED TO  
 COMPLETE CONTRACTORS CONTRACT  
 WITH THE CITY OF PHOENIX

NO.	REVISIONS / SUBMISSIONS	DATE

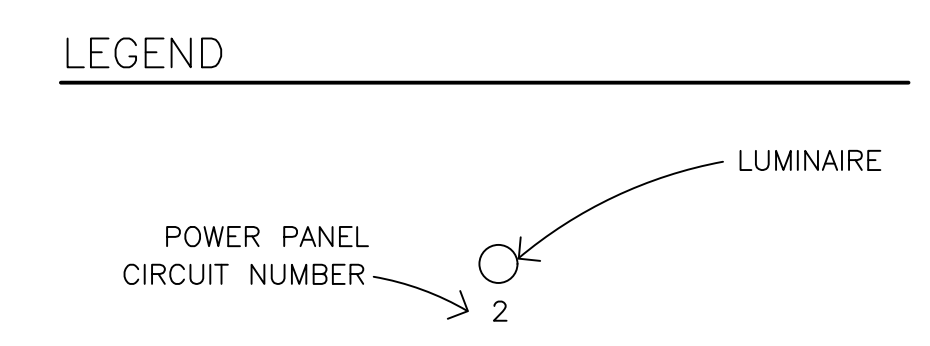
**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
 LEVEL 3  
 RENTAL CAR AREA 7**

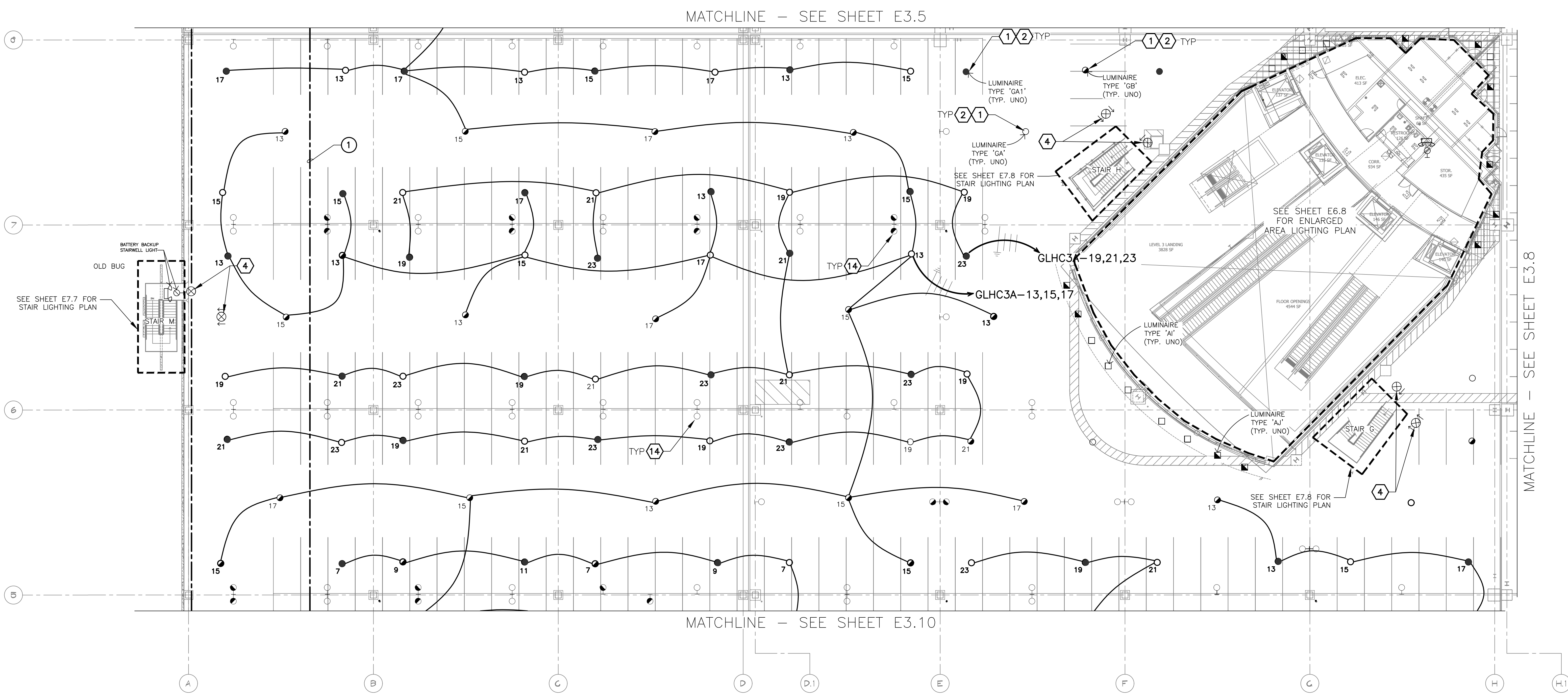
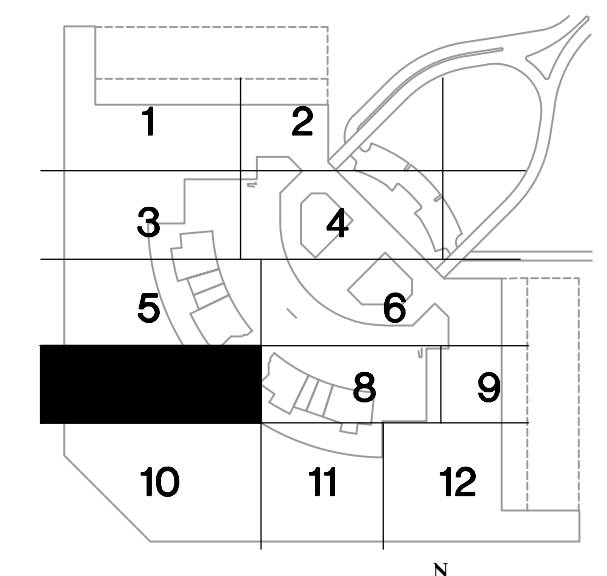
Sheet Reference Number:  
**E3.7**  
 Sheet 43 of 130

- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



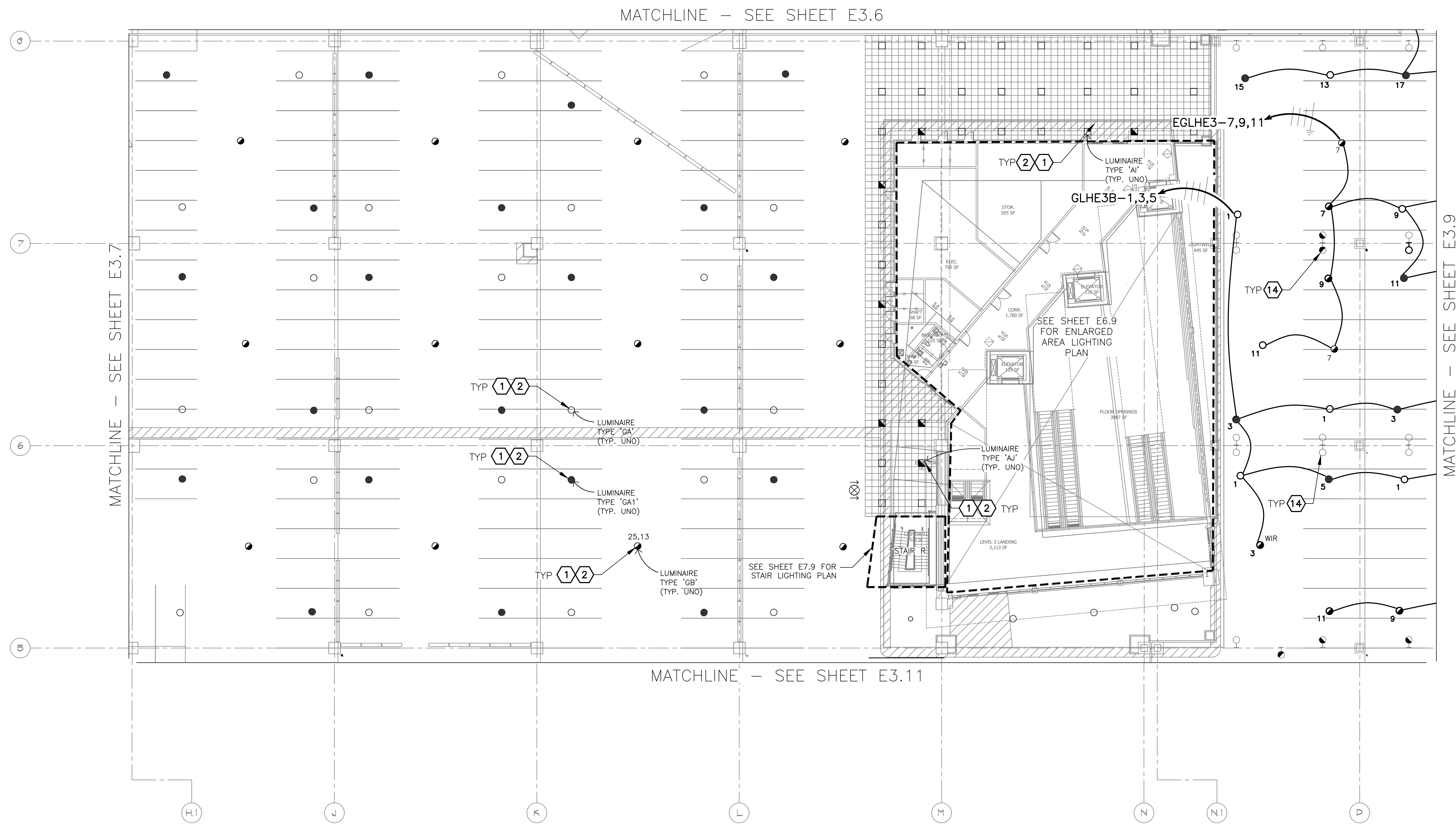
- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1)
  - EXISTING FIXTURE TO REMAIN AS IS.
  - EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. CONDUIT AND CONDUCTORS TO BE REMOVED BACK TO NEAREST JUNCTION BOX.
- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE, ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.

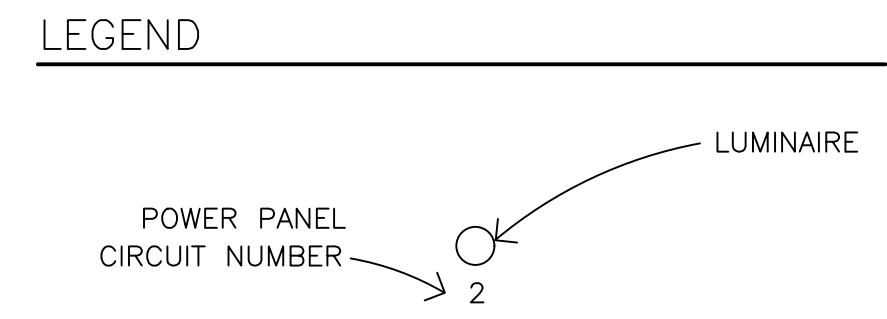


**LIGHTING PLAN – LEVEL 3 – RENTAL CAR AREA 7**  
 SCALE: 1/16" = 1'-0"

C:\PROJECTS\21000\21009\_PSH\_LED\_Light\_Retrofit\CAD\_SHEETS\11004\_E3.7\_LIGHTING\_PLAN - LEVEL 3 - RENTAL CAR AREA 7.dwg - Dec 20/2022 2:39pm



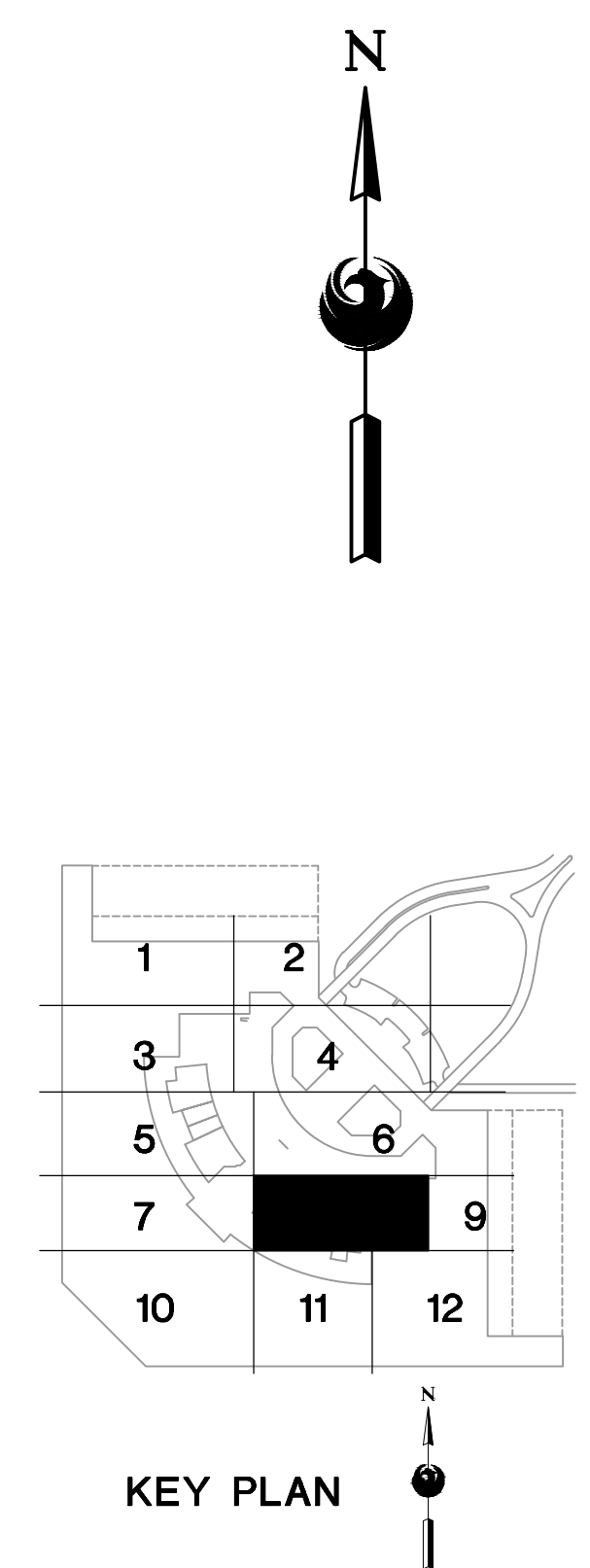
- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



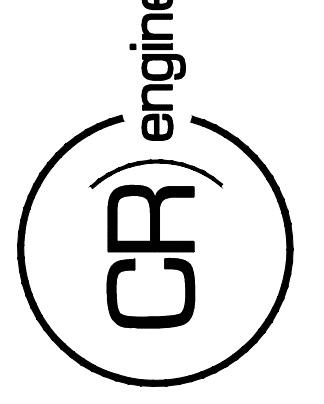
- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A, SHEET 15.1).
  - EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. CONDUIT AND CONDUCTORS TO BE REMOVED BACK TO NEAREST JUNCTION BOX.

EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.

**A LIGHTING PLAN - LEVEL 3 - RENTAL CAR AREA 8**  
SCALE: 1/16" = 1'-0"



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SDEV NO:  
CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-208, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

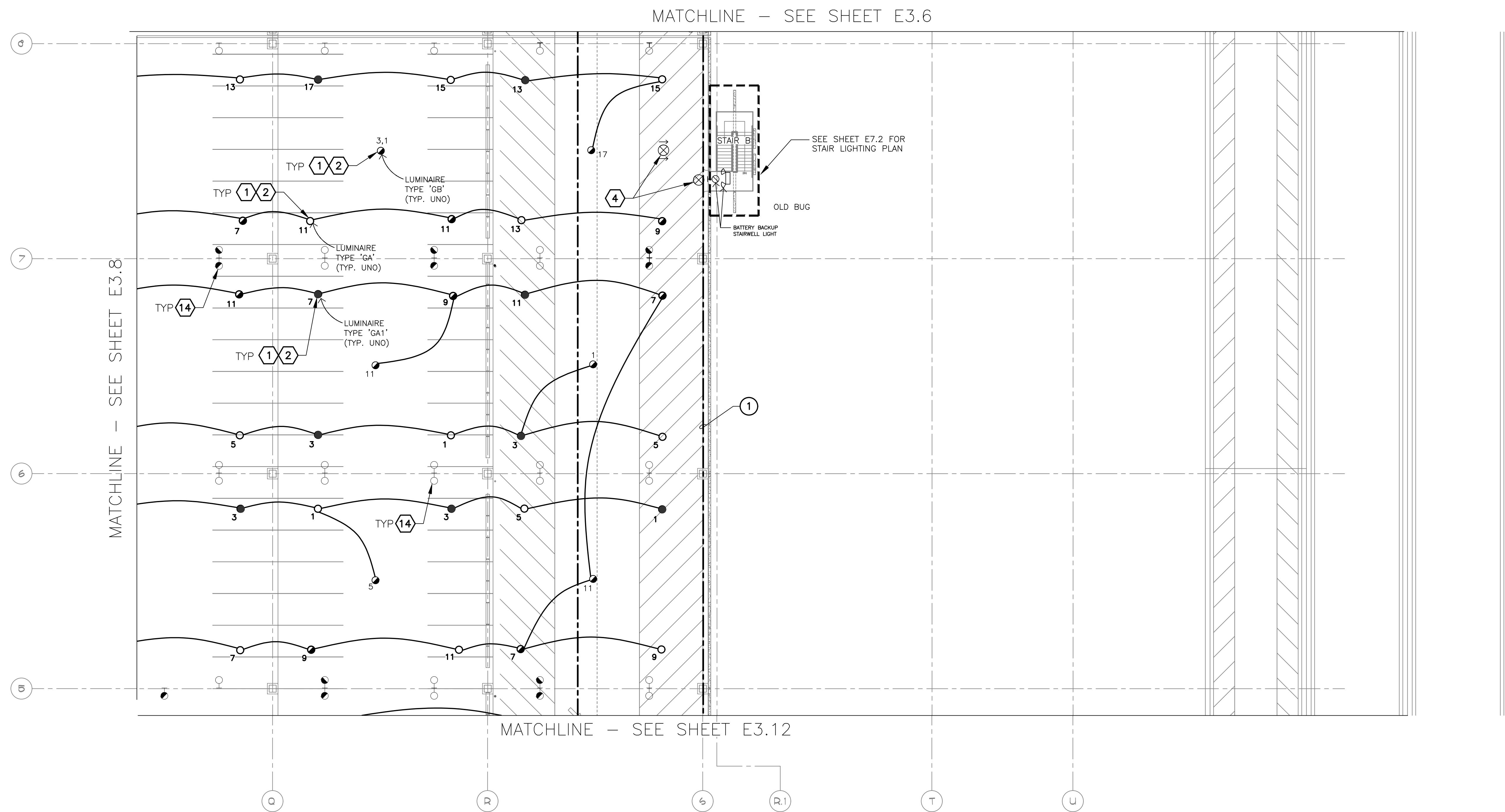
**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV15000073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 3  
RENTAL CAR AREA 8**

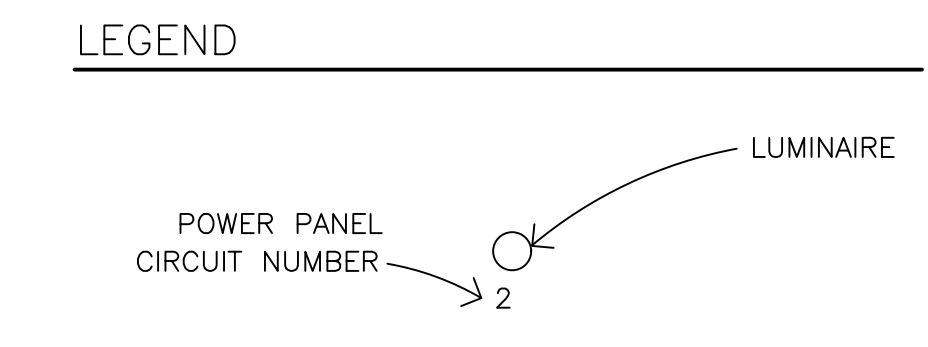
Sheet Reference Number:  
**E3.8**  
Sheet 44 of 130

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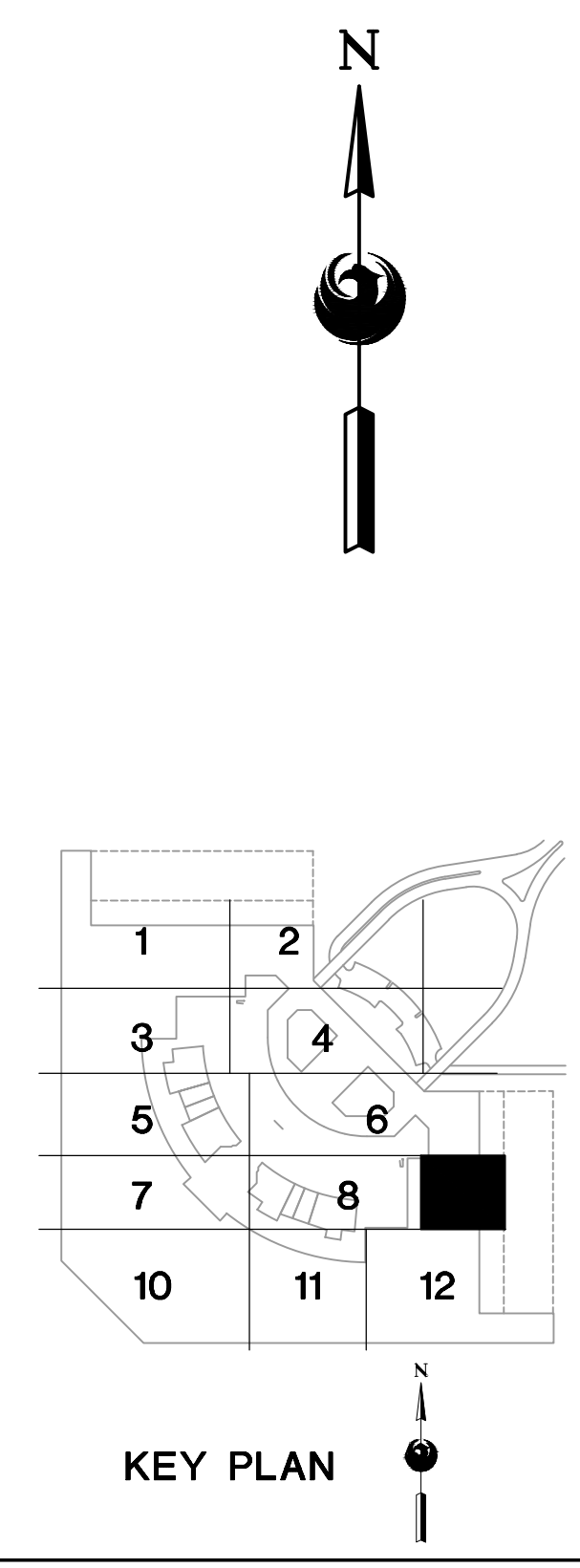
EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wiSCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBEL NX.

- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.



- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS (SEE DETAIL A SHEET E15.1).
  - EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. CONDUIT AND CONDUCTORS TO BE REMOVED BACK TO NEAREST JUNCTION BOX.

- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE, ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.



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**CR engineers**

Professional Engineer  
30696  
CATHERINE M. ALCORN  
State of Arizona  
No. 2014-0000000000

KIVA NO.:  
SDEV NO.:  
CONTRACT NO.: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-238 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR LED LIGHT RETROFIT  
AV15000073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg. scale: AS NOTED

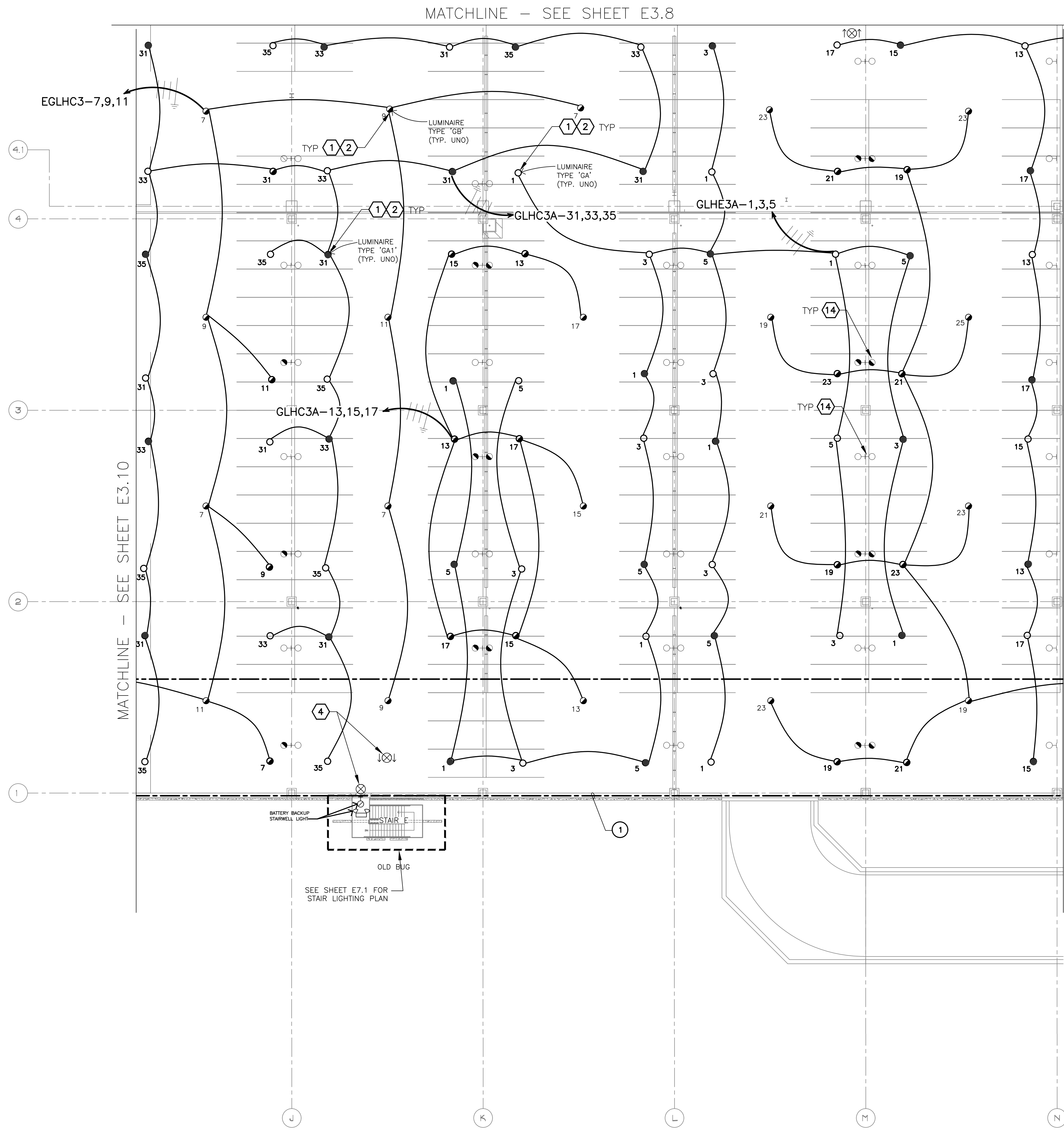
PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 3  
RENTAL CAR AREA 9**

Sheet Reference Number:  
**E3.9**  
Sheet 45 of 130

**A LIGHTING PLAN – LEVEL 3 – RENTAL CAR AREA 9**  
SCALE: 1/16" = 1'-0"

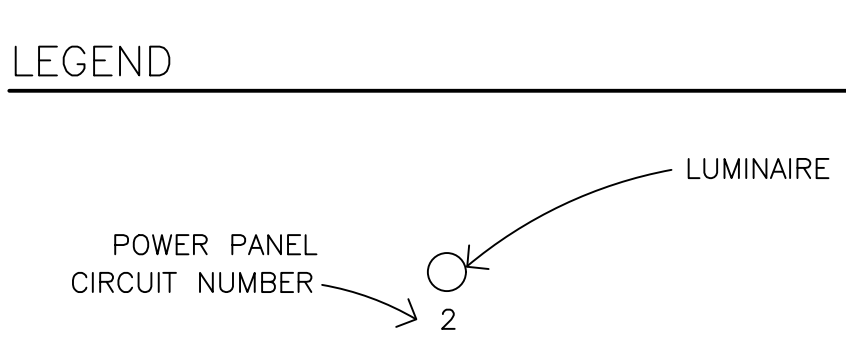
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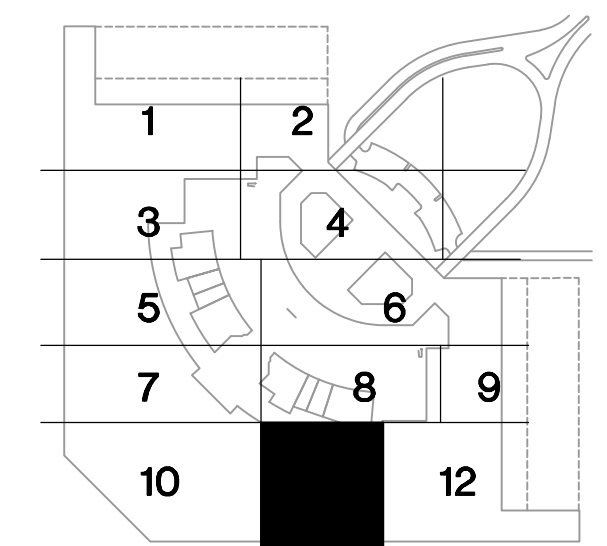


EXTERIOR FIXTURES, AS NOTED IN THE FIXTURE SCHEDULE, SHALL BE CONTROLLED BY HUBBELL wISCAPE. ALL OTHERS SHALL BE CONTROLLED BY HUBBELL NX.

- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
  - ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

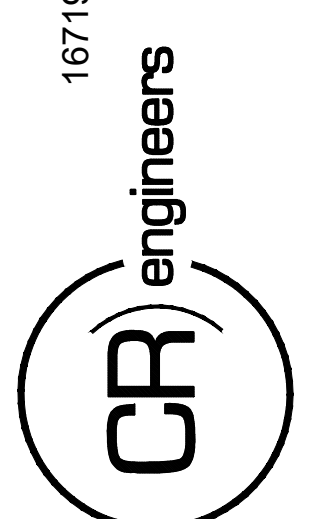


- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A, SHEET E15.1).
  - EXISTING FIXTURE TO REMAIN AS IS.
  - EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. CONDUIT AND CONDUCTORS TO BE REMOVED BACK TO NEAREST JUNCTION BOX.
- REFERENCE NOTES**
- DAYLIGHT HARVESTING ZONE. ALL FIXTURES WITHIN ZONE SHALL BE CONNECTED THROUGH PHOTO SENSOR DIMMING CONTROL.



**A LIGHTING PLAN – LEVEL 3 – RENTAL CAR AREA 11**  
SCALE: 1/16" = 1'-0"

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SDEV NO:  
CONTRACT NO:

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

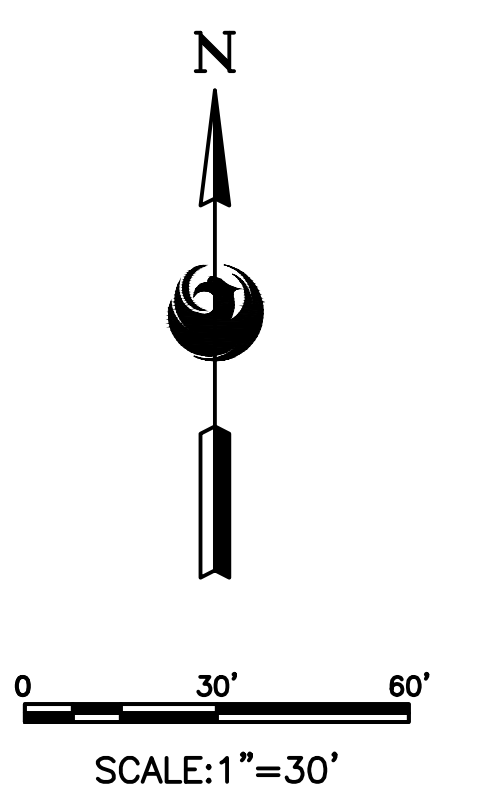
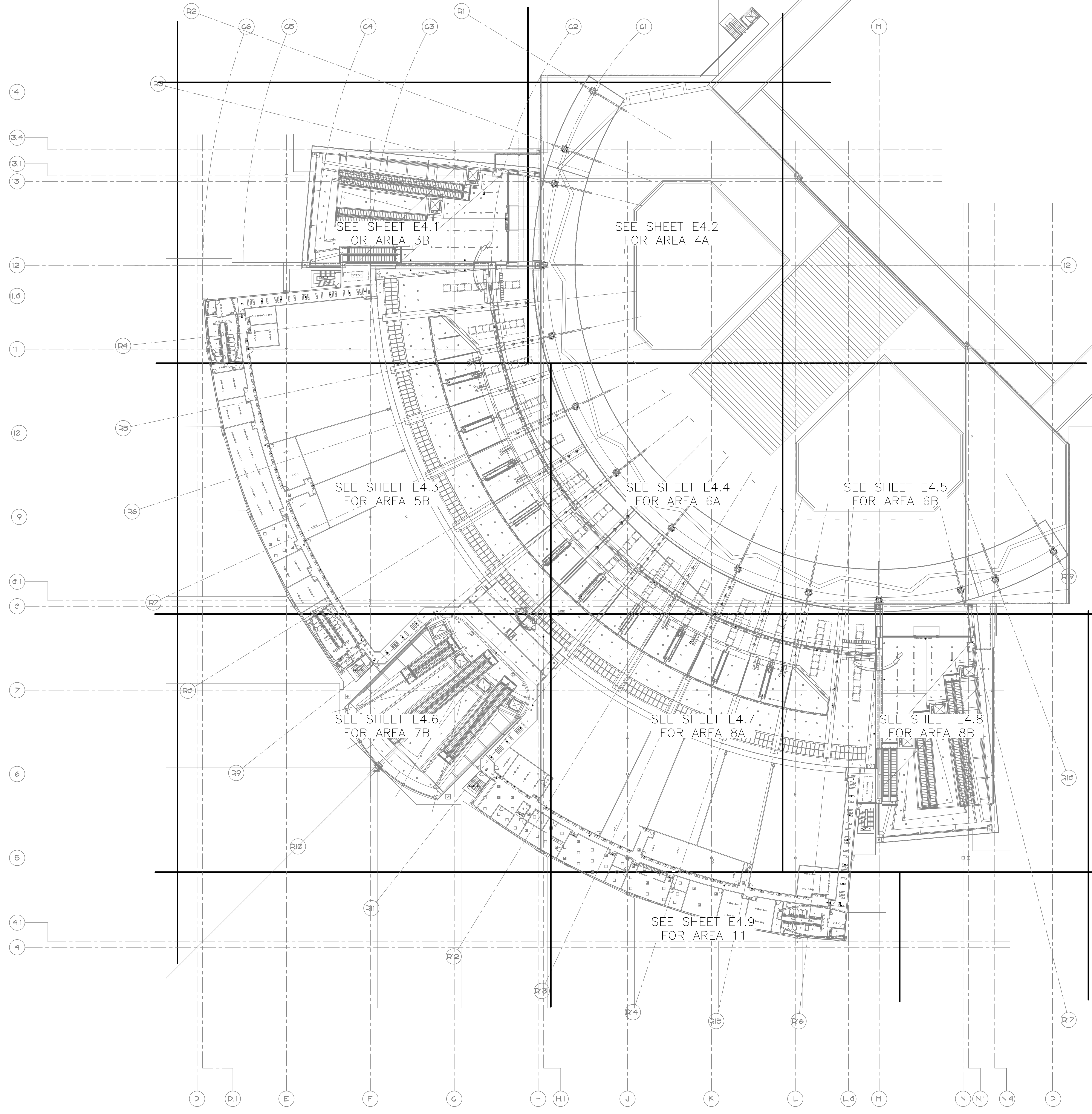
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 3  
RENTAL CAR AREA 11**

Sheet Reference Number:  
**E3.11**  
Sheet 47 of 130

C:\PROJECTS\2100\21009\_PHX\_LED\_Light\_Retrofit\CAD\_SHEETS\17094\_E3.11\_LIGHTING\_PLAN\_LEVEL\_3\_RENTAL\_CAR\_AREA\_11.dwg - Dec 20, 2022 2:41pm







**A** OVERALL LIGHTING PLAN – LEVEL 4 CSB

Sheet Reference Number:  
**E4.0**  
Sheet 49 of 130

**OVERALL LIGHTING PLAN  
LEVEL 4 CSB**

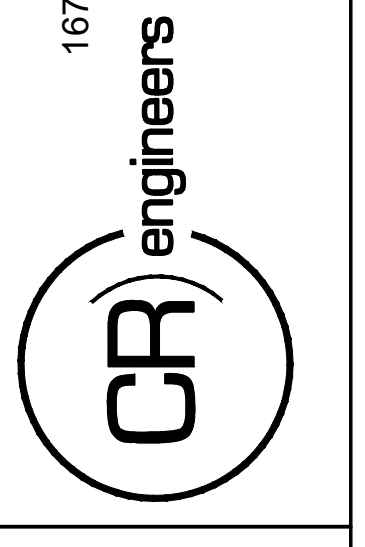
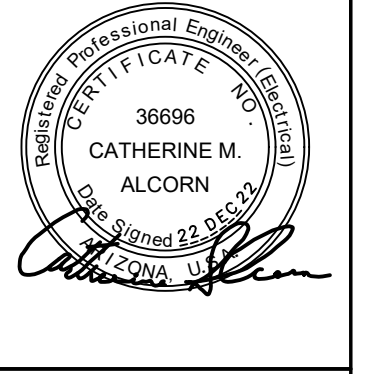
Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg. scale: AS NOTED

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV15000073-1

NO.	REVISIONS / SUBMISSIONS	DATE

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-238, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038



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MATCHLINE - SEE SHEET E4.2

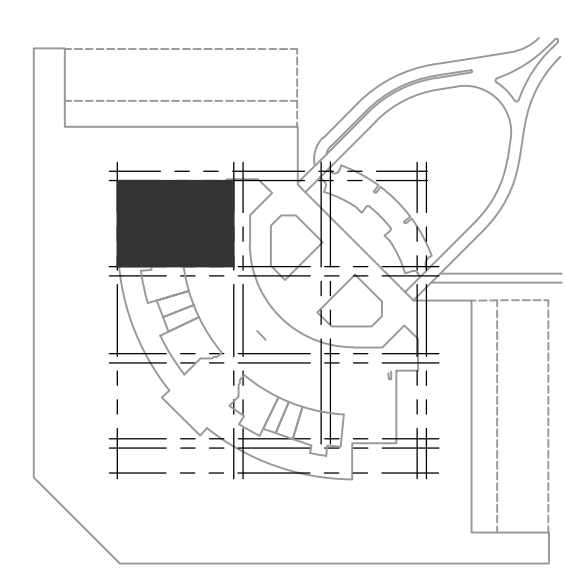
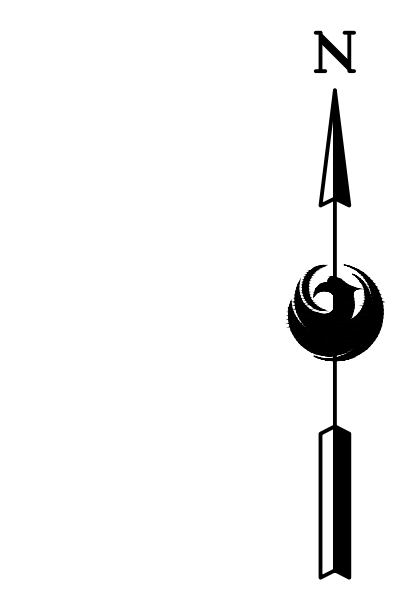
MATCHLINE - SEE SHEET E4.3

- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
  - ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
  - ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

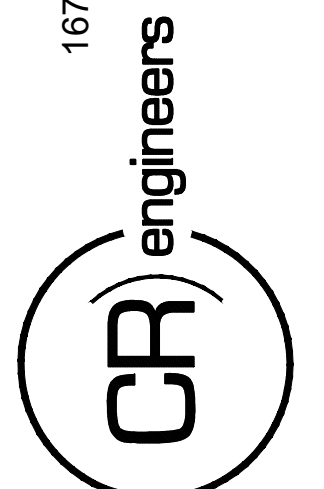
- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT SEE DETAIL A SHEET E15.1
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT.
  - EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.
  - NEW FIXTURE LAMPS TO BE INSTALLED.
  - CEILING-MOUNT OCCUPANCY SENSOR (HUBBELL NX LIGHTING CONTROLS)
  - ROOM CONTROLLER (HUBBELL NX LIGHTING CONTROLS)
  - NX OR WISCAPE MODULE INSTALLED IN CUSTOM SIZED J-BOX. IN EITHER SCENARIO, ENSURE WISCAPE ANTENNA OR NX RADIO MODULE IS INSTALLED ON OUTER FACE OF JUNCTION BOX AND IS POINTED DOWNWARD.

**A LIGHTING PLAN - LEVEL 4 CSB - AREA 3B**

SCALE: 1/8" = 1'-0"



KEY PLAN



KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28B THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 4 CSB  
AREA 3B**

Sheet Reference Number:  
**E4.1**  
Sheet 50 of 130

C:\PROJECTS\2100\21009\_PHSIA\_Rental\_Car\_LED\_Light\_Retrofit\CAD\_SHEETS\17095\_E4.1\_LIGHTING\_PLAN - LEVEL 4 CSB - AREA 3B.dwg - Dec 20/2022 2:54pm



MATCHLINE – SEE SHEET E4.1



MATCHLINE – SEE SHEET E4.6

**Ⓐ LIGHTING PLAN – LEVEL 4 CSB – AREA 5B**

SCALE: 1/8" = 1'-0"

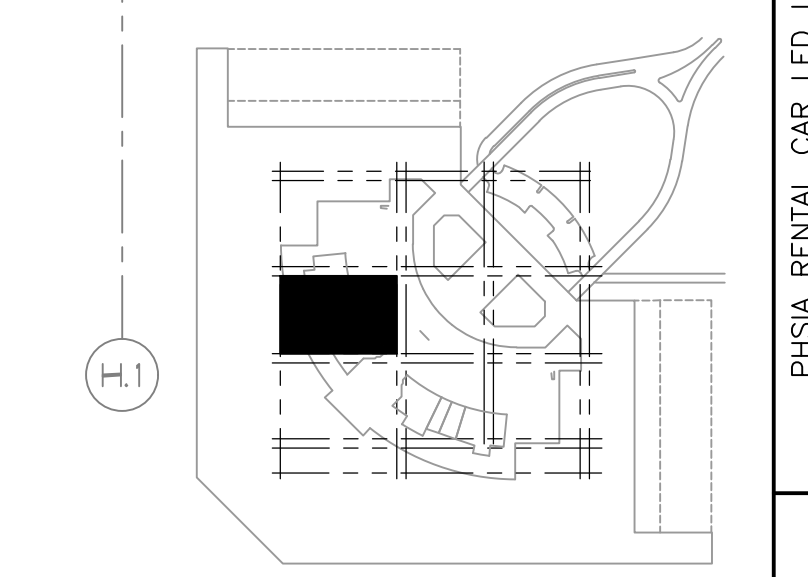
**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
- ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
- ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT.
- EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.
- NEW FIXTURE LAMPS TO BE INSTALLED.
- CEILING-MOUNT OCCUPANCY SENSOR (HUBBELL NX LIGHTING CONTROLS)
- ROOM CONTROLLER (HUBBELL NX LIGHTING CONTROLS)
- NX OR WISCAPE MODULE INSTALLED IN CUSTOM SIZED J-BOX. IN EITHER SCENARIO, ENSURE WISCPAE ANTENNA OR NX RADIO MODULE IS INSTALLED ON OUTER FACE OF JUNCTION BOX AND IS POINTED DOWNWARD.

MATCHLINE – SEE SHEET E4.4



KEY PLAN

PROJECTS/2100/21009\_PSH\_LED\_Light\_Retrofit/CAD\_SHEETS/17095\_E4.3\_LIGHTING\_PLAN - LEVEL 4 CSB - AREA 5B.dwg - Dec. 20, 2022, 2:56pm

DESIGNED BY: RBW  
DRAWN BY: CA  
CHECKED BY: CA  
DATE: 12/22/2022  
DWG SCALE: AS NOTED

NO. REVISIONS / SUBMISSIONS DATE

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

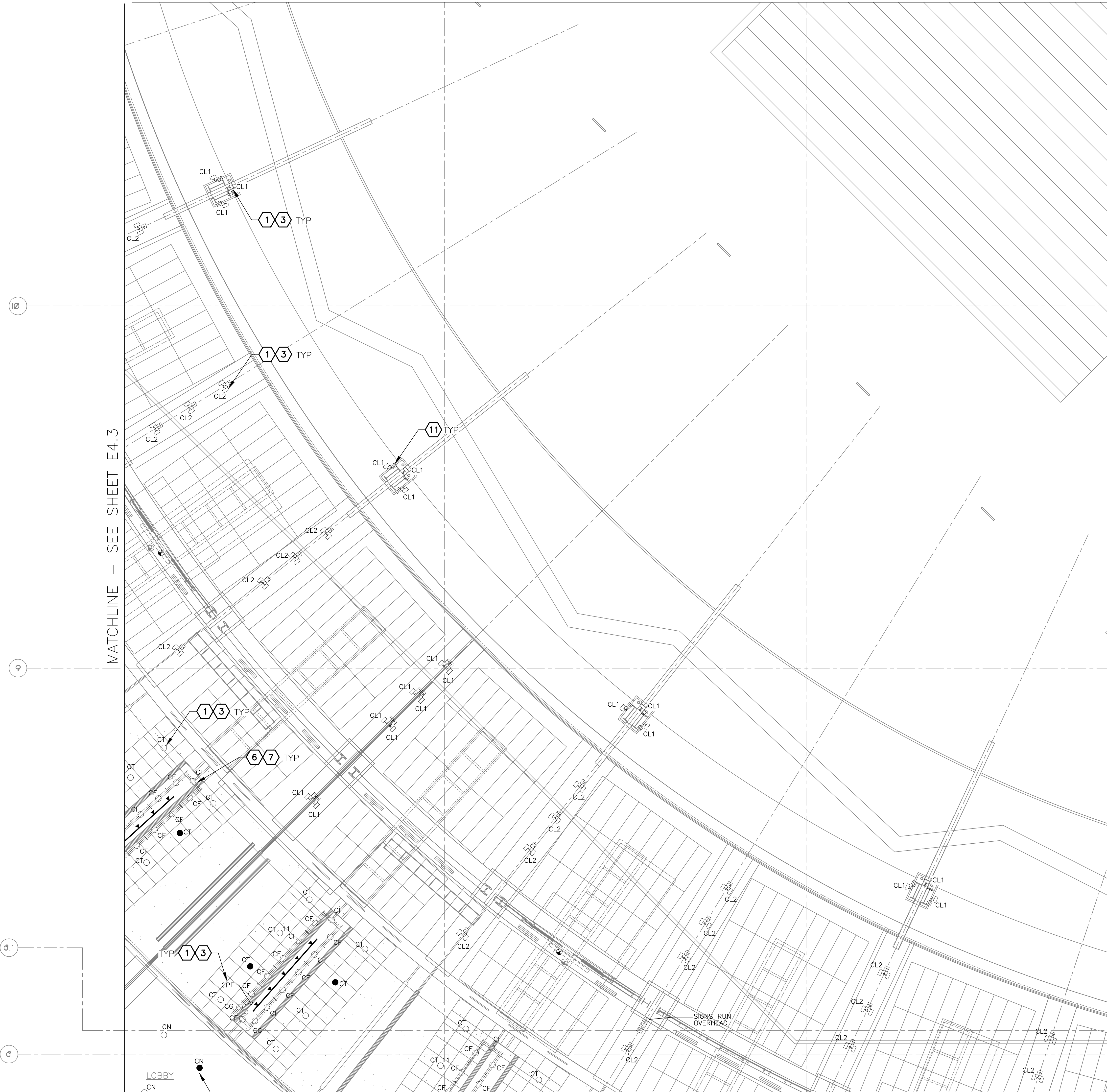
KIVA NO:  
SDEV NO:  
CONTRACT NO:

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com

PHX DVI EYE  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Sheet Reference Number:  
**E4.3**  
Sheet 52 of 130

MATCHLINE - SEE SHEET E4.2



MATCHLINE - SEE SHEET E4.7

**A LIGHTING PLAN - LEVEL 4 CSB - AREA 6A**

SCALE: 1/8" = 1'-0"

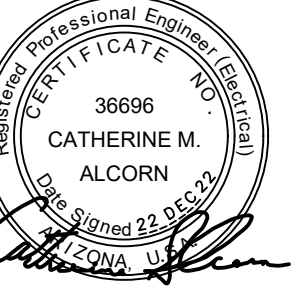
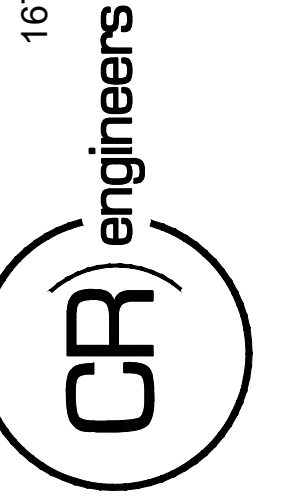
**GENERAL NOTES**

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2. ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
3. ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
4. GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

**KEYED NOTES**

- ① EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- ③ NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS
- ⑥ EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF
- ⑦ NEW FIXTURE LAMPS TO BE INSTALLED
- ⑧ NX OR WISCAPAE MODULE INSTALLED IN CUSTOM SIZED J-BOX. IN EITHER SCENARIO, ENSURE WISCAPAE ANTENNA OR NX RADIO MODULE IS INSTALLED ON OUTER FACE OF JUNCTION BOX AND IS POINTED DOWNWARD.

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KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

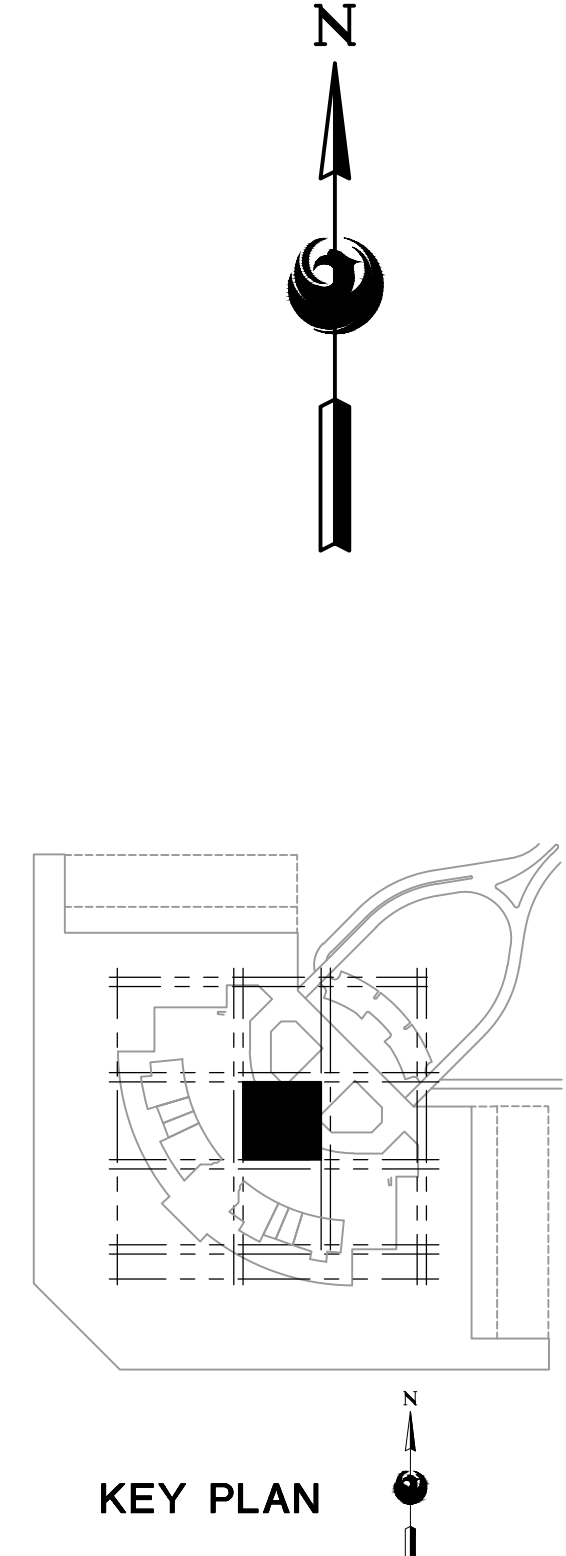
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV15000073-1

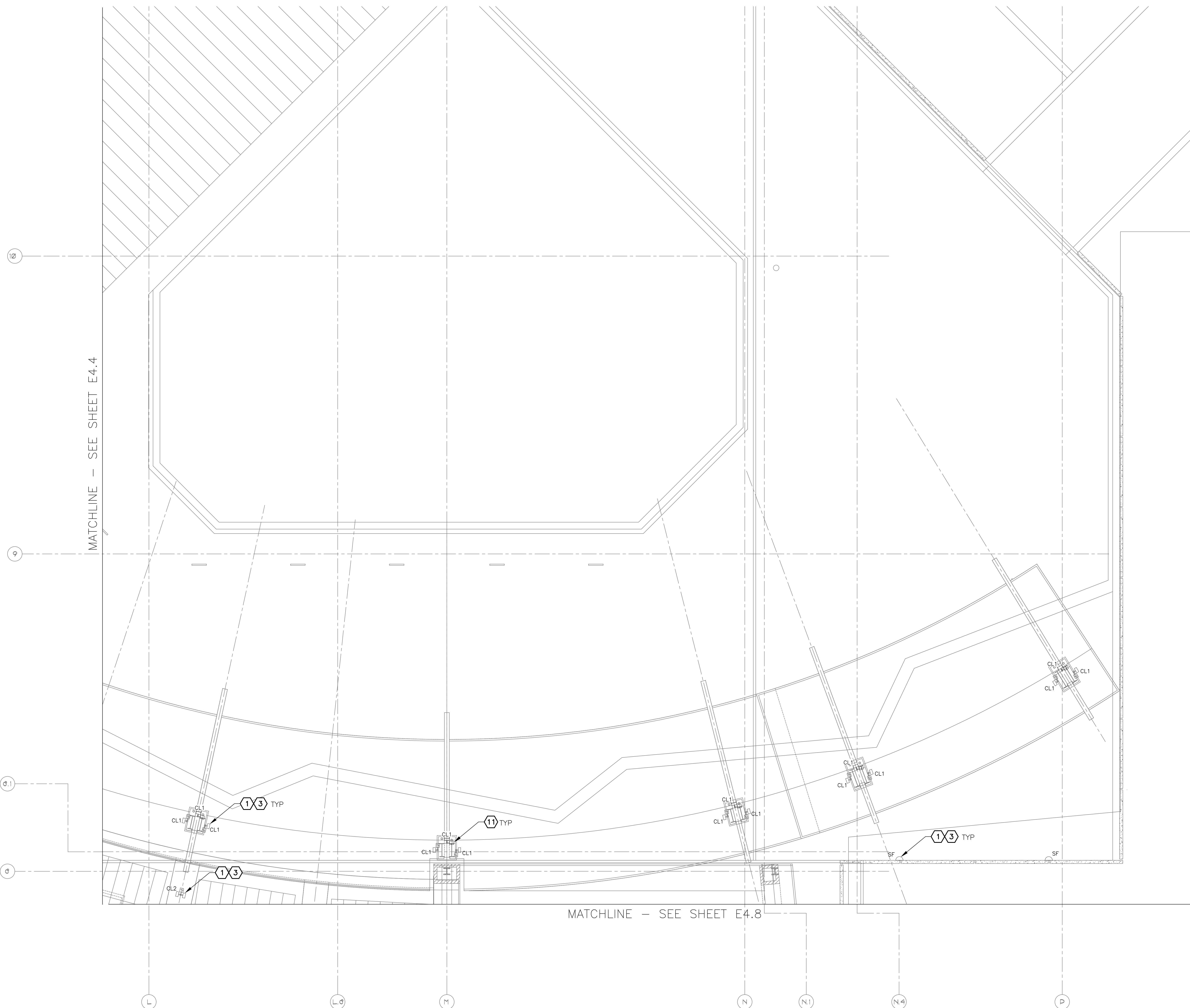
Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 4 CSB  
AREA 6A**

Sheet Reference Number:  
**E4.4**



C:\PROJECTS\21000\21009\_PSH\_LED\_Light\_Retrofit\CAD\_SHEETS\17005\_E4.5\_LIGHTING\_PLAN - LEVEL 4 CSB - AREA 6B.dwg - Dec 20/2022 2:52pm



MATCHLINE - SEE SHEET E4.4

MATCHLINE - SEE SHEET E4.8

**A LIGHTING PLAN - LEVEL 4 CSB - AREA 6B**

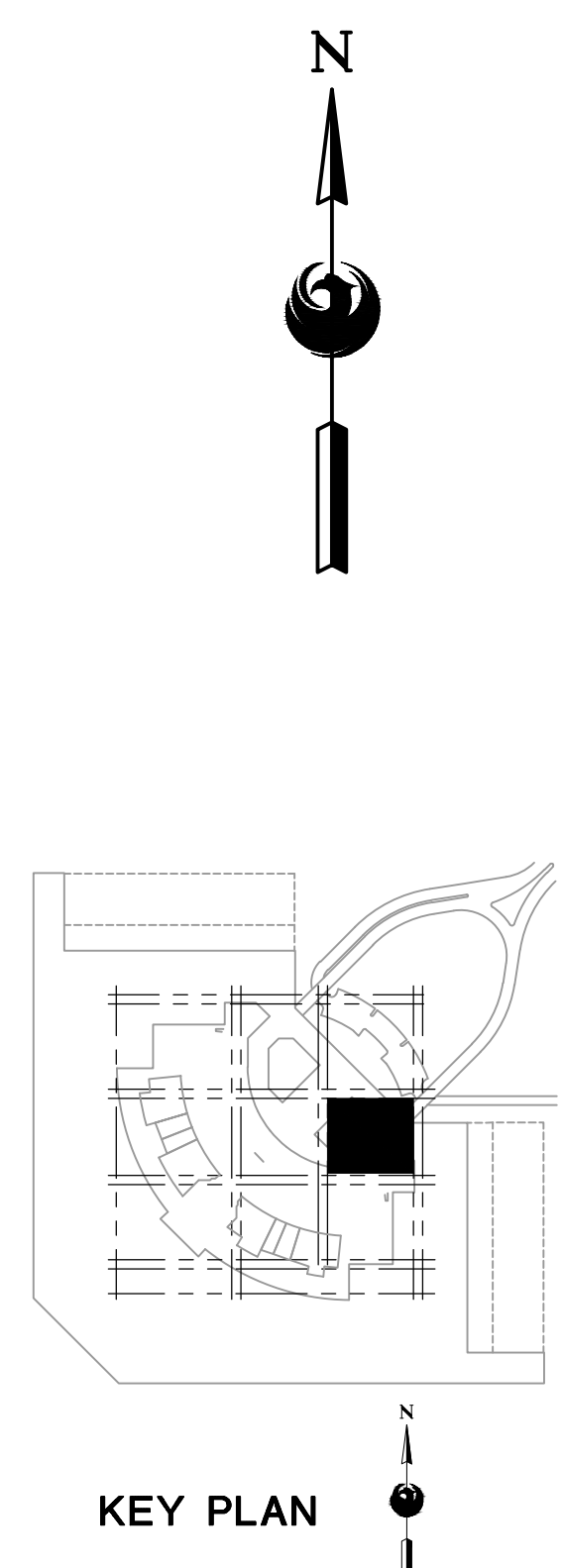
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

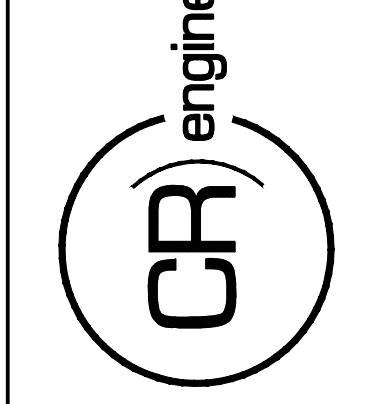
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4. GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

**KEYED NOTES**

- ① EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- ③ NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
- ⑪ NX OR WISCAPE MODULE INSTALLED IN CUSTOM SIZED J-BOX. IN EITHER SCENARIO, ENSURE WISCAPE ANTENNA OR NX RADIO MODULE IS INSTALLED ON OUTER FACE OF JUNCTION BOX AND IS POINTED DOWNWARD.



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KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

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NO.	REVISIONS / SUBMISSIONS	DATE

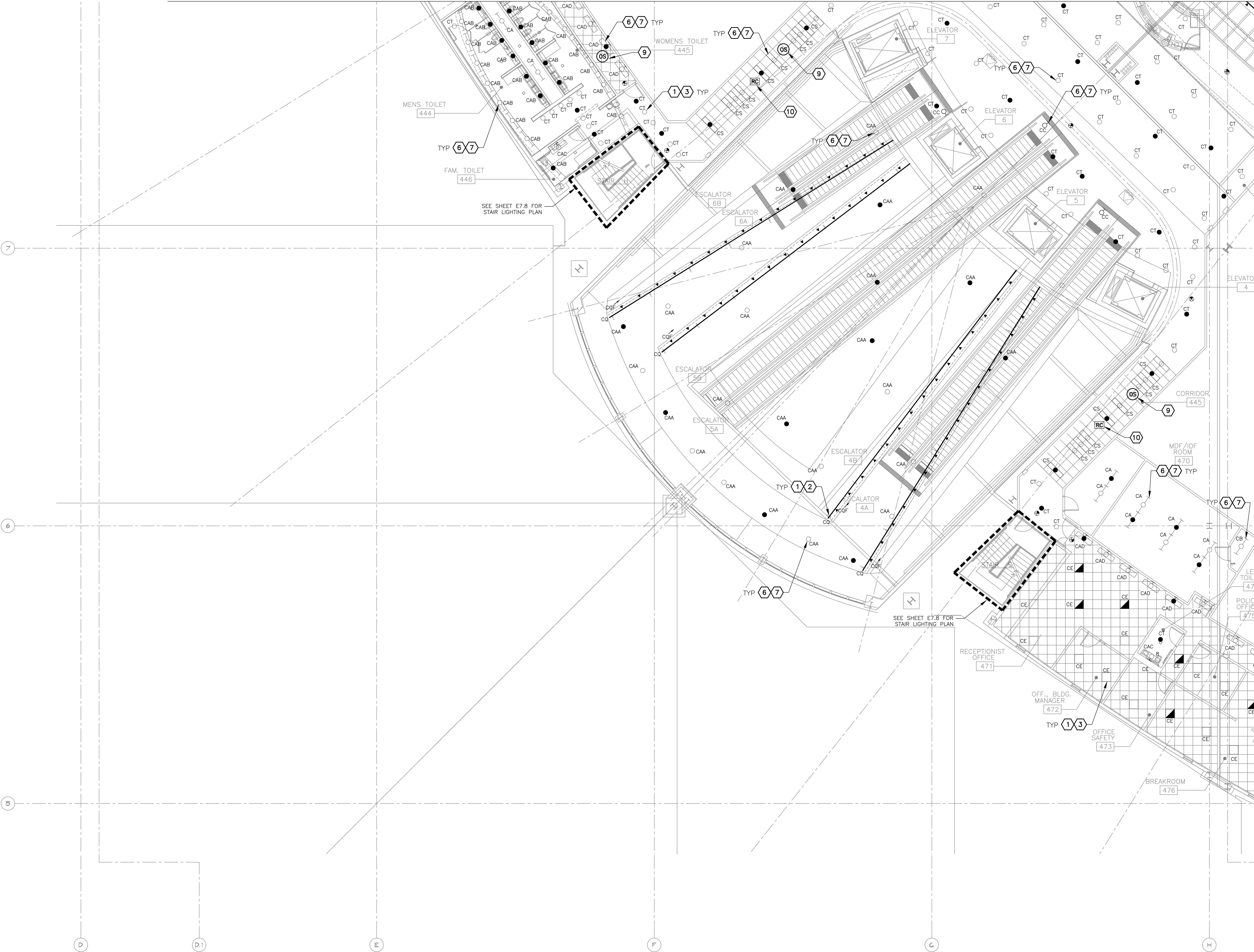
**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV15000073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
 LEVEL 4 CSB  
 AREA 6B**

Sheet Reference Number:  
**E4.5**  
 Sheet 54 of 130

MATCHLINE - SEE SHEET E4.3



GENERAL NOTES

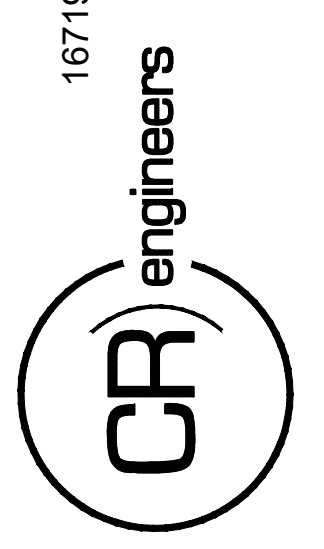
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- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

KEYED NOTES

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT.
- EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.
- NEW FIXTURE LAMPS TO BE INSTALLED.
- CEILING-MOUNT OCCUPANCY SENSOR (HUBBELL NX LIGHTING CONTROLS)
- ROOM CONTROLLER (HUBBELL NX LIGHTING CONTROLS)

MATCHLINE - SEE SHEET E4.7

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 SDEV NO:  
 CONTRACT NO:

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSBIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

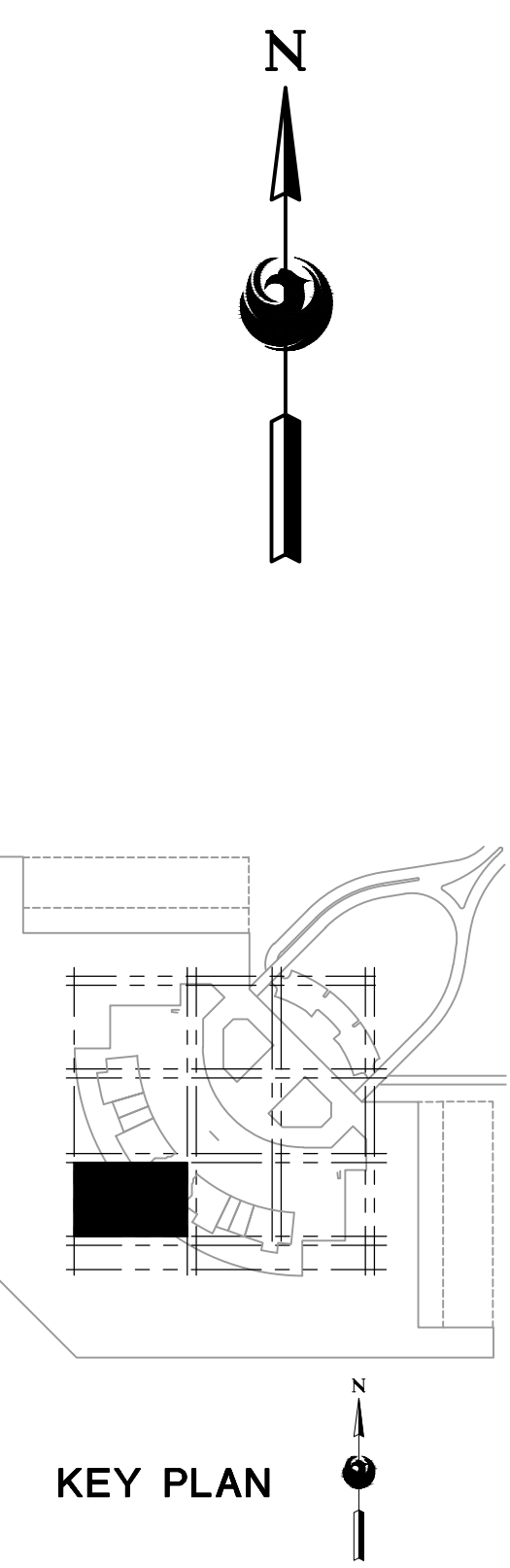
Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN**  
**LEVEL 4 CSB**  
**AREA 7B**

Sheet Reference Number:  
**E4.6**  
 Sheet 55 of 130

**LIGHTING PLAN - LEVEL 4 CSB - AREA 7B**

SCALE: 1/8" = 1'-0"



C:\PROJECTS\21000\21009\_PHSI\_RCC\_LED\_Light\_Retrofit\CAD\_SHEETS\17095\_E4.6\_LIGHTING\_PLAN - LEVEL 4 CSB - AREA 7B.dwg - Dec 20/2022 2:58pm

MATCHLINE - SEE SHEET E4.4



MATCHLINE - SEE SHEET E4.9

**A LIGHTING PLAN - LEVEL 4 CSB - AREA 8A**

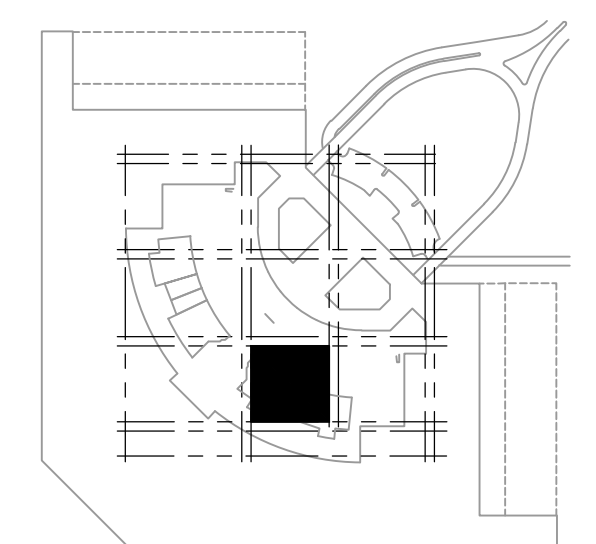
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

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- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

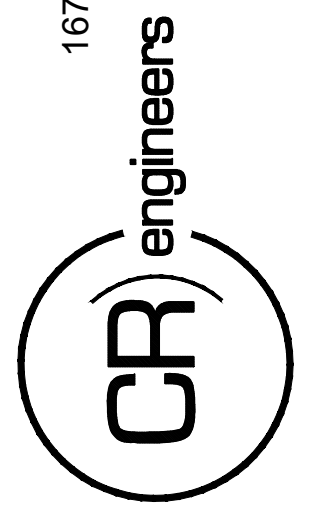
**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A SHEET E15.1).
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT.
- EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.
- NEW FIXTURE LAMPS TO BE INSTALLED.
- CEILING-MOUNT OCCUPANCY SENSOR (HUBBELL NX LIGHTING CONTROLS)
- ROOM CONTROLLER (HUBBELL NX LIGHTING CONTROLS)
- NX OR WISCAPE MODULE INSTALLED IN CUSTOM SIZED J-BOX. IN EITHER SCENARIO, ENSURE WISCAPE ANTENNA OR NX RADIO MODULE IS INSTALLED ON OUTER FACE OF JUNCTION BOX AND IS POINTED DOWNWARD.



KEY PLAN

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
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Fax: (480) 816-5540  
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KIVA NO:  
SDEV NO:  
CONTRACT NO:

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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg. scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 4 CSB  
AREA 8A**

Sheet Reference Number:  
**E4.7**  
Sheet 56 of 130



MATCHLINE - SEE SHEET E4.5

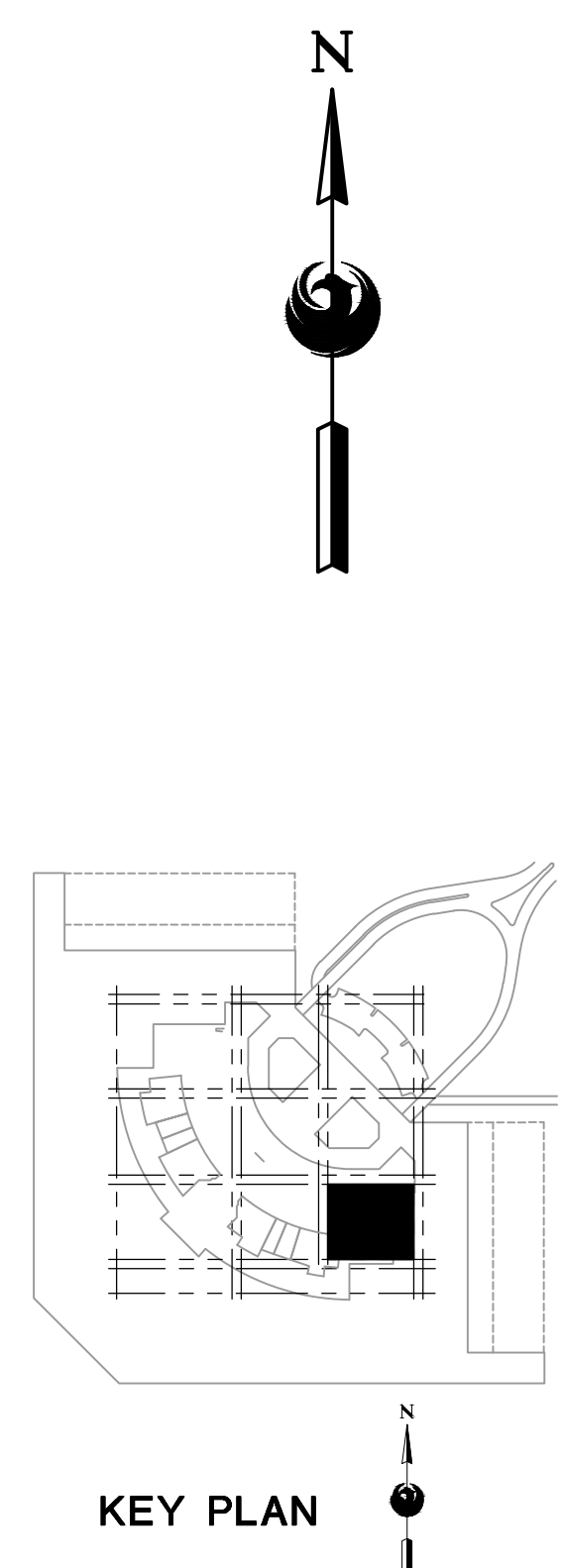


MATCHLINE - SEE SHEET E4.9

MATCHLINE - SEE SHEET E4.7

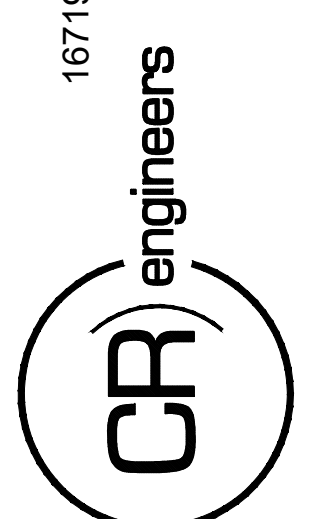
- GENERAL NOTES**
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  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT (SEE DETAIL A SHEET E15.1).
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT.
  - EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.
  - NEW FIXTURE LAMPS TO BE INSTALLED.
  - CEILING-MOUNT OCCUPANCY SENSOR (HUBBELL NX LIGHTING CONTROLS)
  - ROOM CONTROLLER (HUBBELL NX LIGHTING CONTROLS)



**A LIGHTING PLAN - LEVEL 4 CSB - AREA 8B**  
SCALE: 1/8" = 1'-0"

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KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038

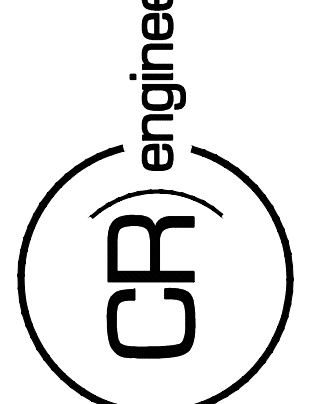
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: SBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
LEVEL 4 CSB  
AREA 8B**

Sheet Reference Number:  
**E4.8**  
Sheet 57 of 130



KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY  
 CODE CHAPTER 2 SECTION  
 2-28. THESE PLANS ARE FOR  
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 NOT BE SHARED WITH OTHERS  
 EXCEPT AS REQUIRED TO  
 COMPLETE CONTRACTORS CONTRACT  
 WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
**AV1500073-1**

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
 LEVEL 4 CSB  
 AREA 11B**

Sheet Reference Number:  
**E4.9**  
 Sheet 58 of 130



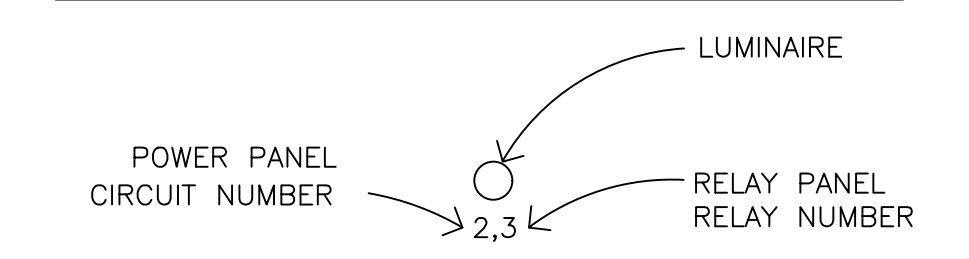
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**KEYED NOTES**

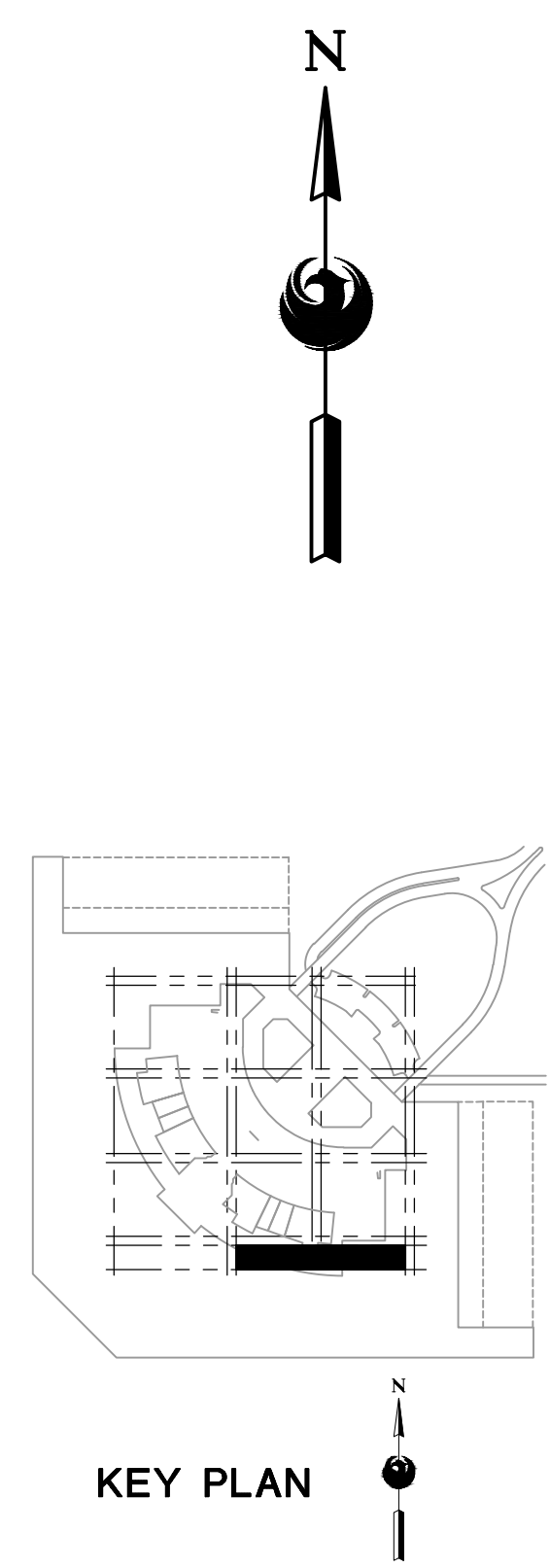
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT.
- EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.
- NEW FIXTURE LAMPS TO BE INSTALLED.
- DUAL TECHNOLOGY WALL SWITCH (HUBBELL NX LIGHTING CONTROLS)
- CEILING-MOUNT OCCUPANCY SENSOR (HUBBELL NX LIGHTING CONTROLS)
- ROOM CONTROLLER (HUBBELL NX LIGHTING CONTROLS)

**LEGEND**

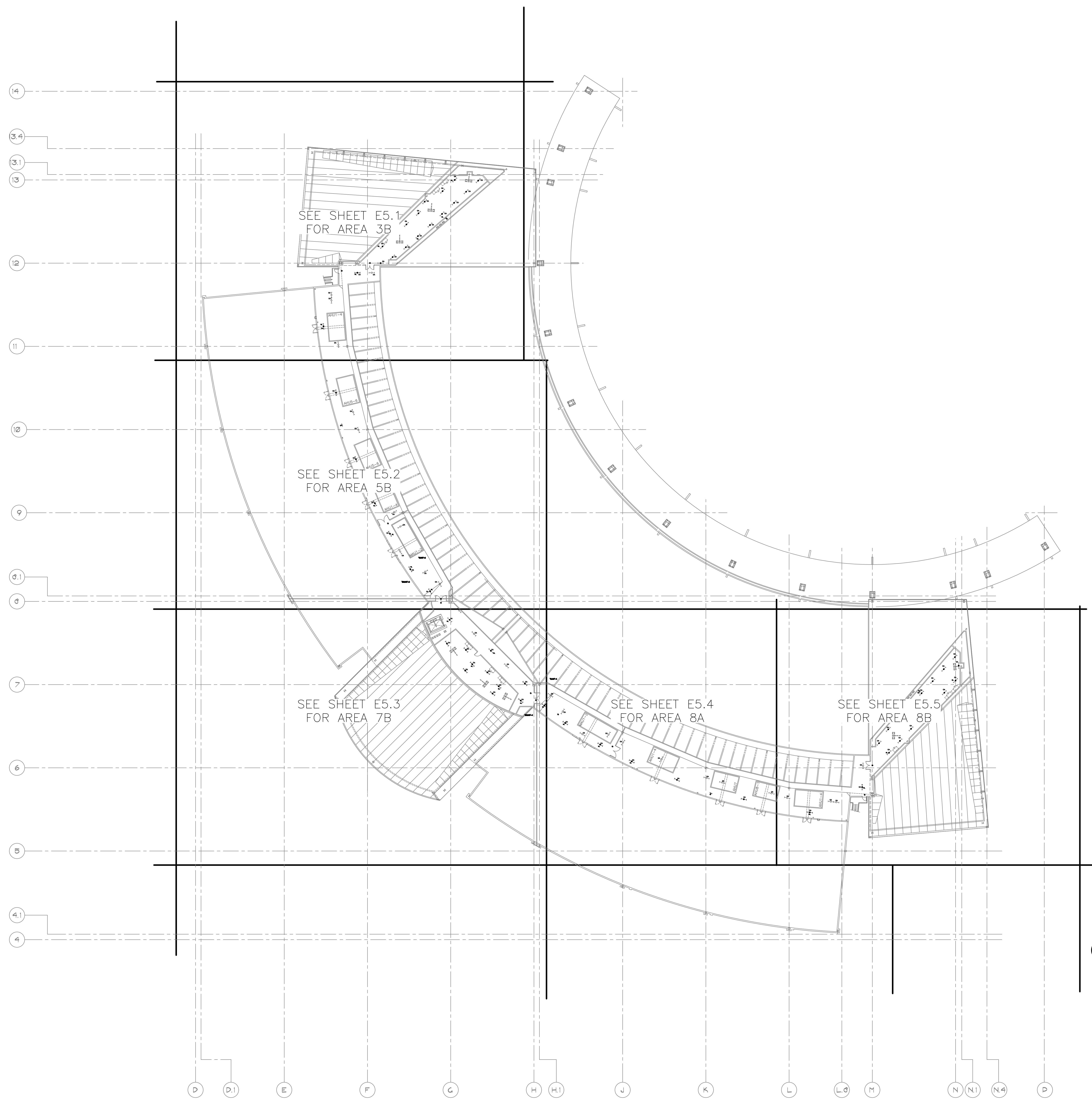


**(A) LIGHTING PLAN — LEVEL 4 CSB — AREA 11B**

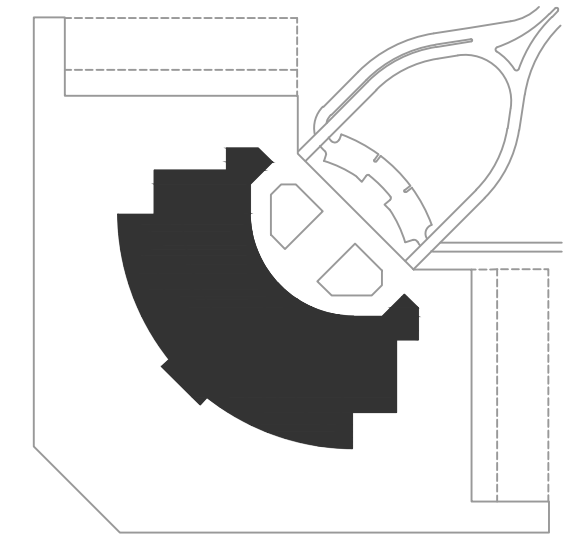
SCALE: 1/8" = 1'-0"



CA:\PROJECTS\21000\21009\_PSH\_RCC\_LED\_Light\_Retrofit\CAD\_SHEETS\11055\_E4.9\_LIGHTING\_PLAN - LEVEL 4 CSB - AREA 11B.dwg - Dec 20, 2022 2:49pm



Ⓐ OVERALL LIGHTING PLAN – LEVEL 4 CSB PLATFORM



KEY PLAN

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**OVERALL LIGHTING PLAN**  
**LEVEL 4 CSB PLATFORM**

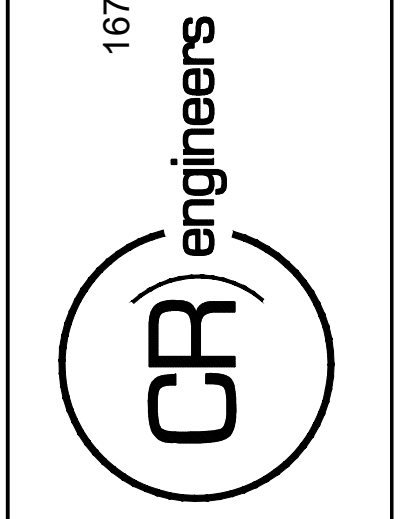
Sheet Reference Number:  
**E5.0**

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
**AV15000073-1**

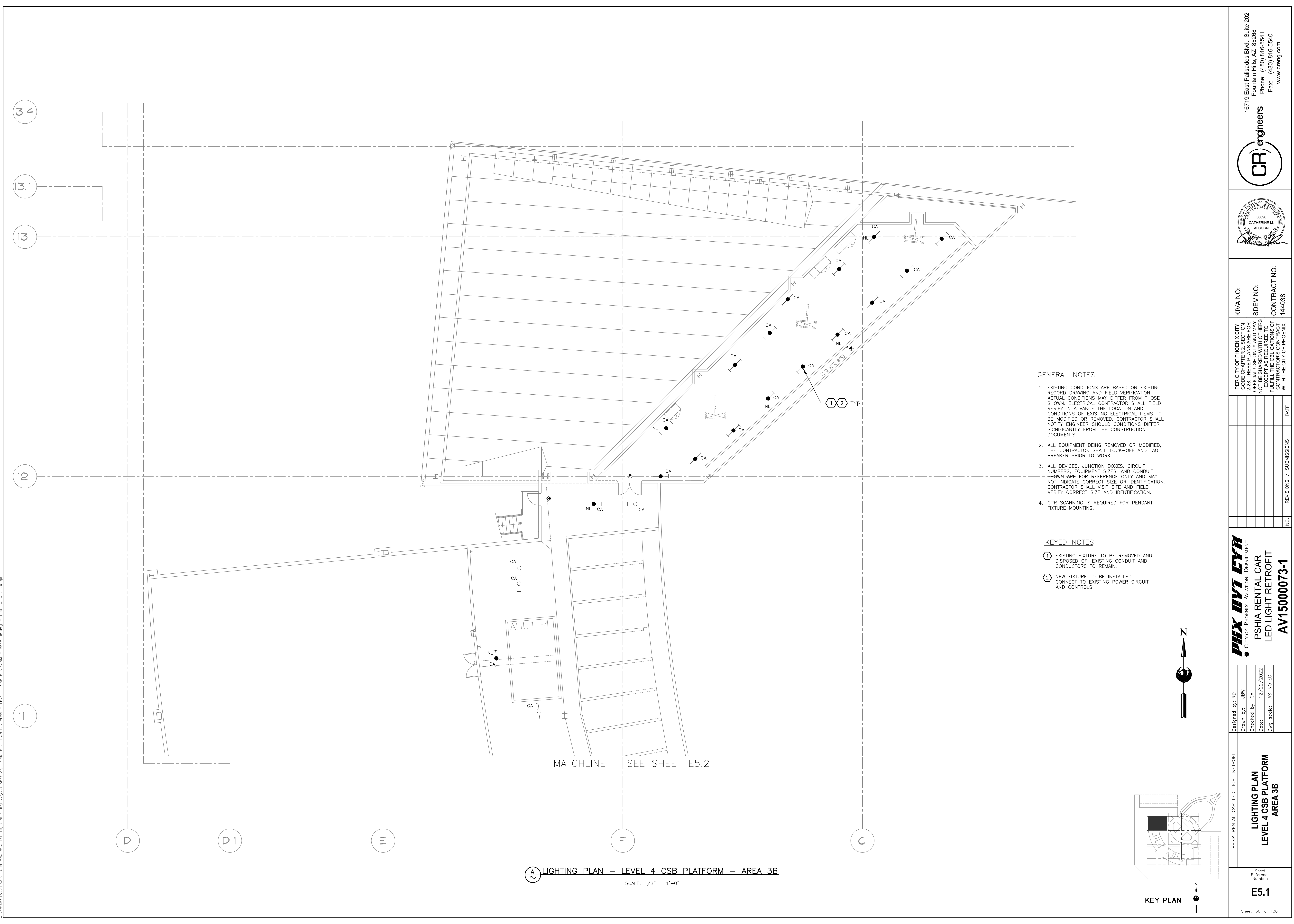
NO.	REVISIONS / SUBMISSIONS	DATE

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-238, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

KIVA NO:  
 SDEV NO:  
 CONTRACT NO:  
 144038



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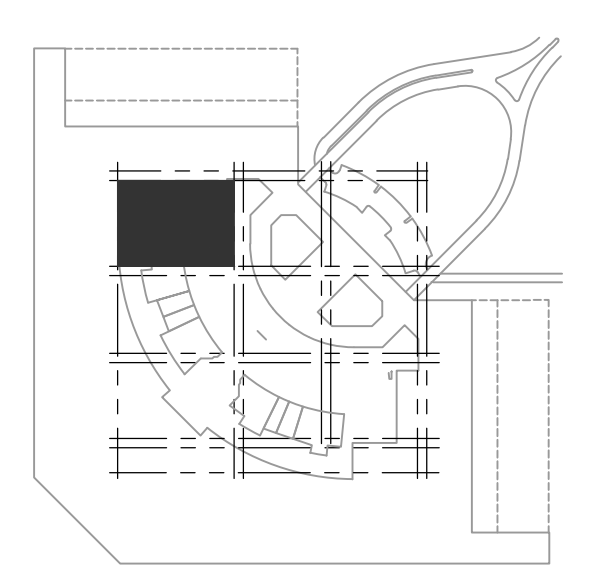
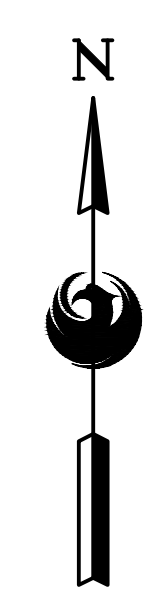


**GENERAL NOTES**

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4. GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

**KEYED NOTES**

- ① EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- ② NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.



KEY PLAN

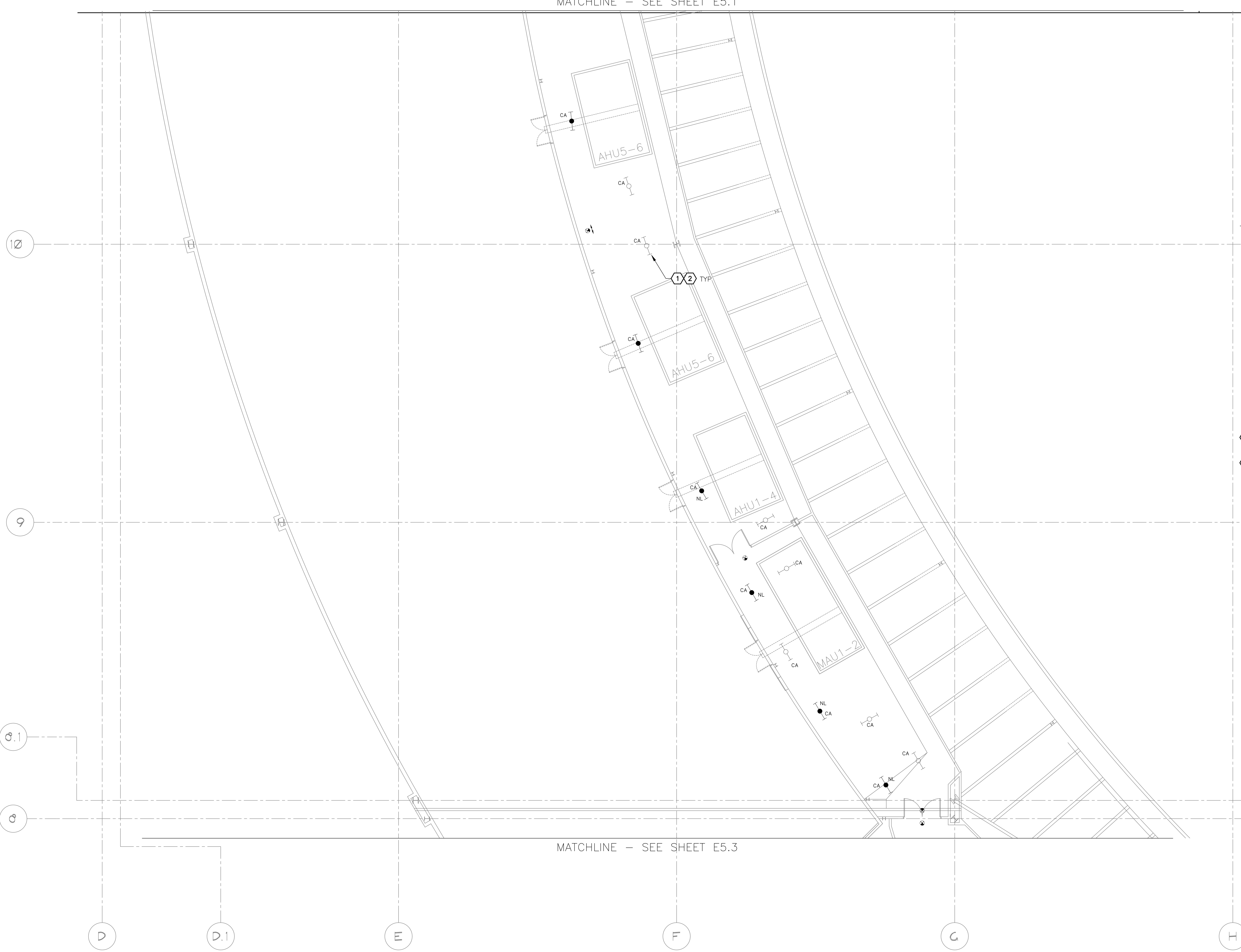
**Ⓐ LIGHTING PLAN - LEVEL 4 CSB PLATFORM - AREA 3B**

SCALE: 1/8" = 1'-0"

DESIGNED BY: RD DRAWN BY: JBW CHECKED BY: CA DATE: 12/22/2022 DWG. SCALE: AS NOTED	<b>PHX DVT EYE</b> CITY OF PHOENIX AVIATION DEPARTMENT PSHIA RENTAL CAR LED LIGHT RETROFIT <b>AV1500073-1</b>	PER CITY OF PHOENIX CITY CODE CHAPTER 23 SECTION 23-28 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.	KIVA NO: SDEV NO: CONTRACT NO: 144038	16719 East Palisades Blvd., Suite 202 Fountain Hills, AZ 85268 Phone: (480) 816-5541 Fax: (480) 816-5540 www.creng.com
--	---	--	---	--

MATCHLINE - SEE SHEET E5.1

MATCHLINE - SEE SHEET E5.3



**A LIGHTING PLAN - LEVEL 4 CSB PLATFORM - AREA 5B**

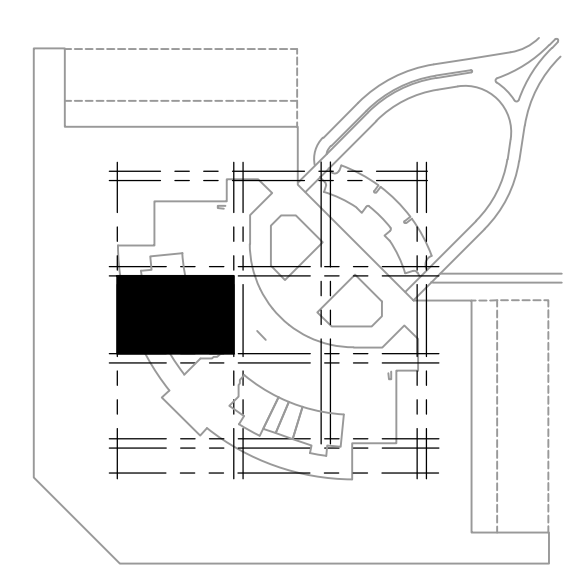
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

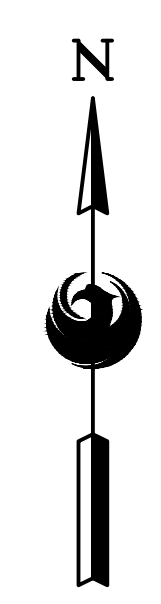
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- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

**KEYED NOTES**

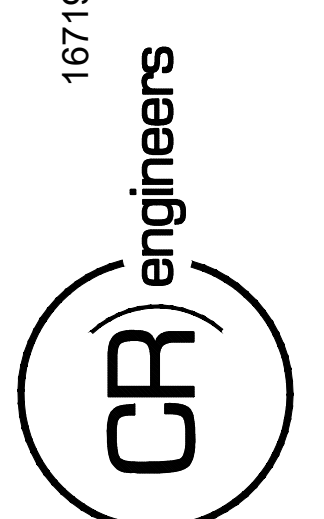
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.



KEY PLAN



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 Fax: (480) 816-5540  
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KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV15000073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
 LEVEL 4 CSB PLATFORM  
 AREA 5B**

Sheet Reference Number:  
**E5.2**  
 Sheet 61 of 130

C:\PROJECTS\21000\21009\_PSH\_RCC\_LED\_Light\_Retrofit\CAD\_SHEETS\17095\_E5.2\_LIGHTING\_PLAN - LEVEL 4 CSB PLATFORM - AREA 5B.dwg - Dec. 20/2022 2:51pm

MATCHLINE - SEE SHEET E5.2

7

6

01

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**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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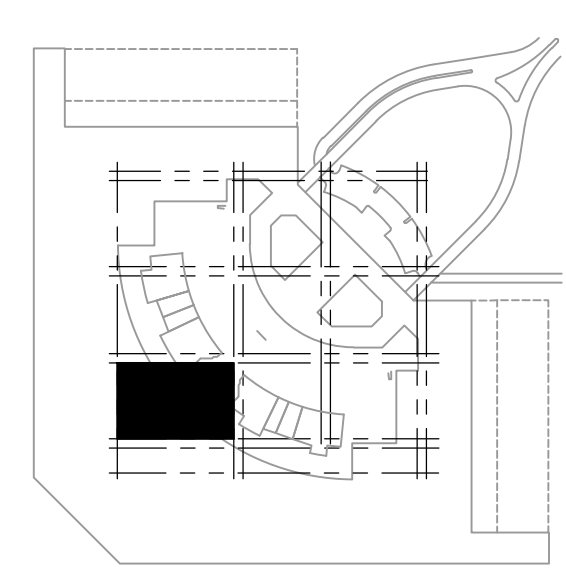
**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS

**~ LIGHTING PLAN - LEVEL 4 CSB PLATFORM - AREA 7B**

SCALE: 1/8" = 1'-0"

MATCHLINE - SEE SHEET E5.4



KEY PLAN



PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN**  
**LEVEL 4 CSB PLATFORM**  
**AREA 7B**

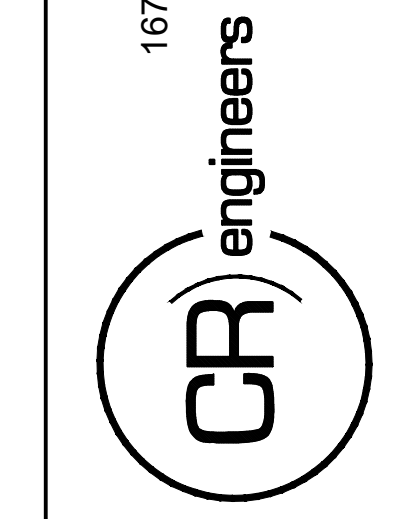
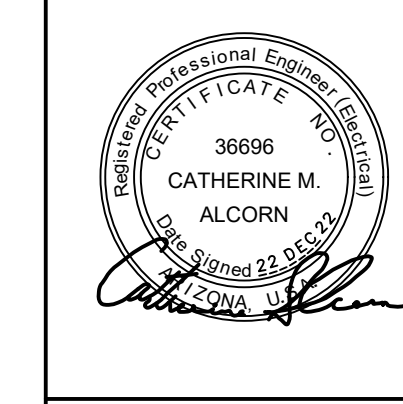
Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
**AV15000073-1**

NO.	REVISIONS / SUBMISSIONS	DATE

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-238, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038



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C:\PROJECTS\21000\21009\_PHSI\_RCC\_LED\_Light\_Retrofit\CAD\_SHEETS\17095\_E5.3\_LIGHTING\_PLAN - LEVEL 4 CSB PLATFORM - AREA 7B.dwg - Dec. 20/2022 2:51pm



**A LIGHTING PLAN – LEVEL 4 CSB PLATFORM – AREA 8A**

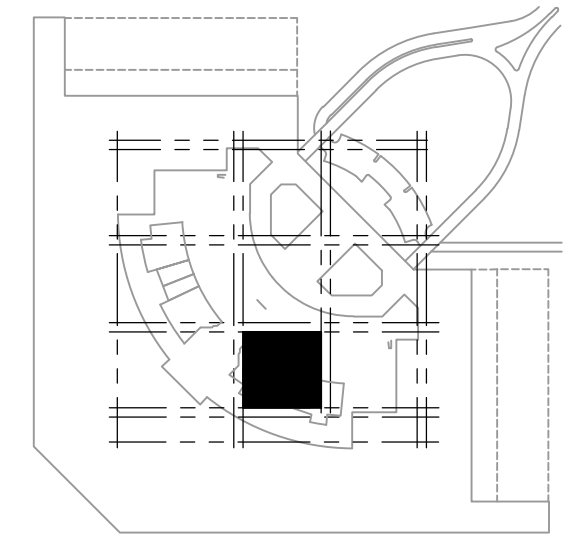
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**GENERAL NOTES**

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**KEYED NOTES**

- 1 EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF; EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- 2 NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.



**KEY PLAN**



Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
 LEVEL 4 CSB PLATFORM  
 AREA 8A**

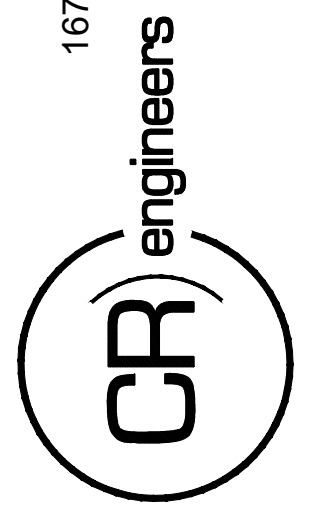
Sheet Reference Number:  
**E5.4**  
 Sheet 63 of 130

**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
**AV15000073-1**

NO.	REVISIONS / SUBMISSIONS	DATE

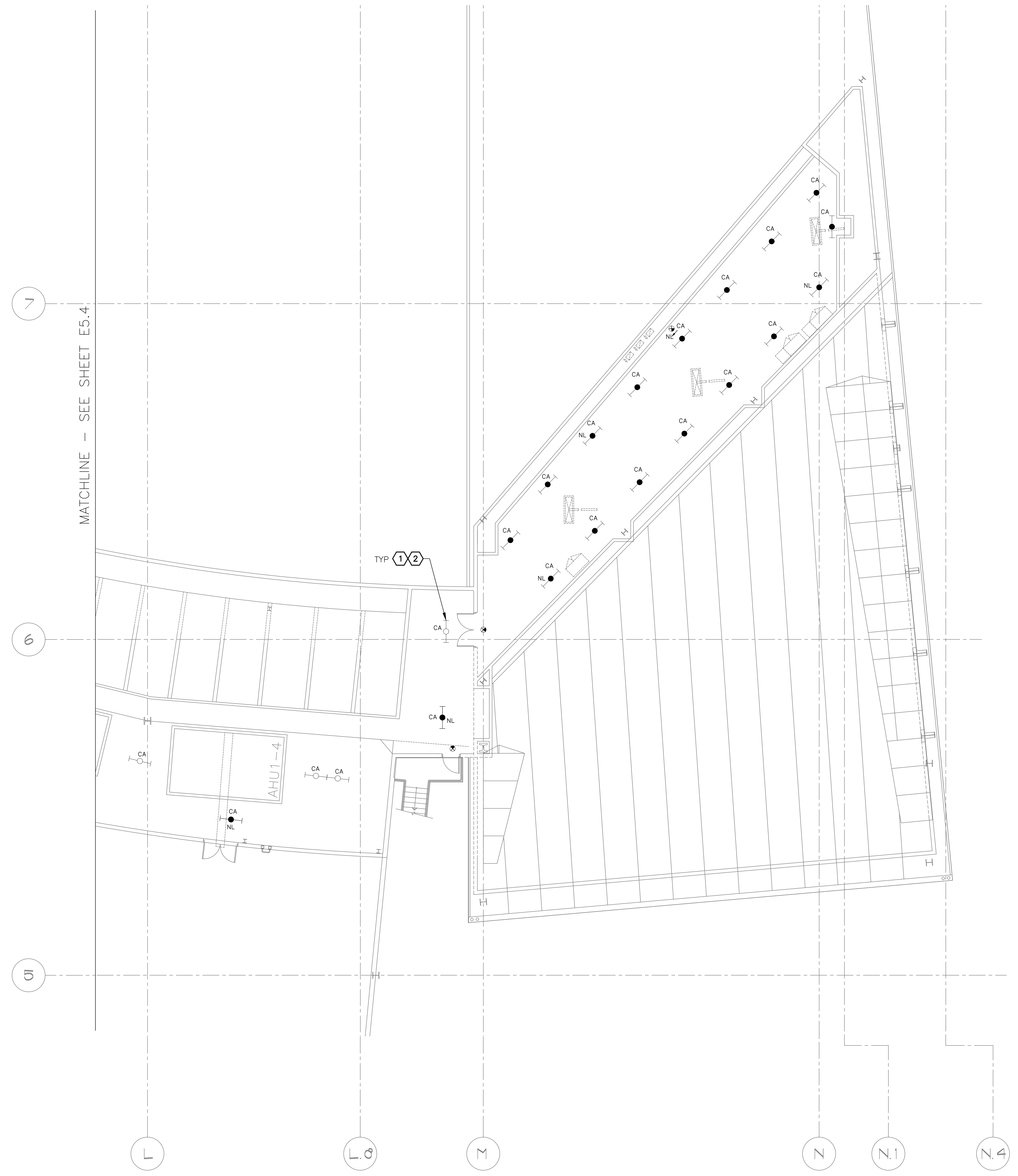
PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-238 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038



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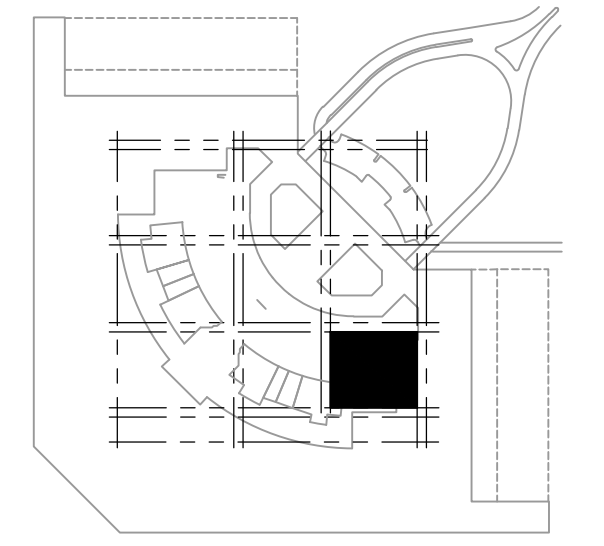


MATCHLINE - SEE SHEET E5.4

TYP 1 2

**A LIGHTING PLAN - LEVEL 4 CSB PLATFORM - AREA 8B**

SCALE: 1/8" = 1'-0"



KEY PLAN



**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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**KEYED NOTES**

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- 2 NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.

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 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

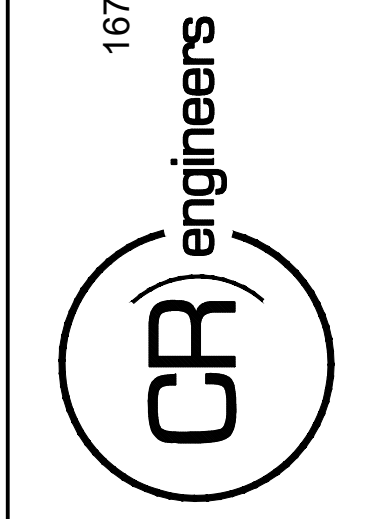
**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV15000073-1

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLAN  
 LEVEL 4 CSB PLATFORM  
 AREA 8B**

Sheet Reference Number:  
**E5.5**  
 Sheet 64 of 130

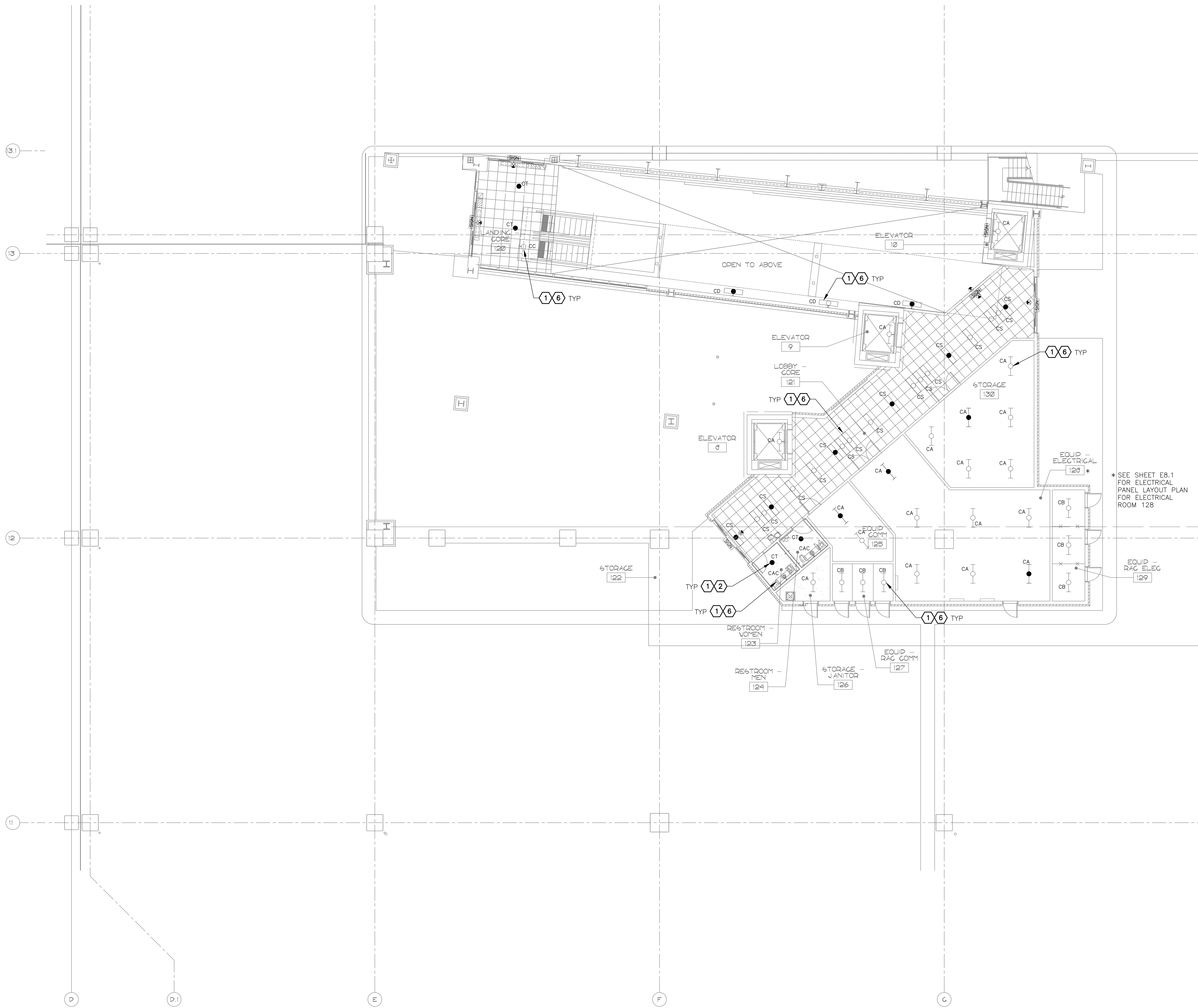
KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

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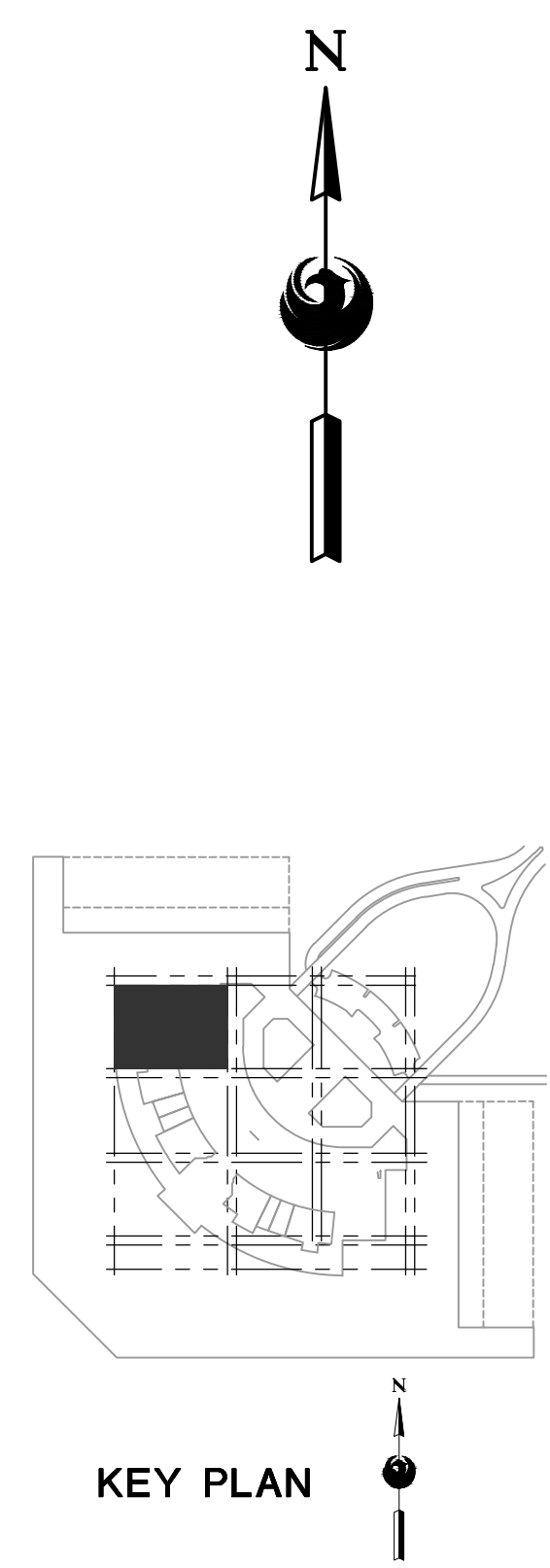
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- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
- EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.

\*SEE SHEET E8.1 FOR ELECTRICAL PANEL LAYOUT PLAN FOR ELECTRICAL ROOM 128



**A** LARGE SCALE ELECTRICAL LIGHTING CORE PLAN - LEVEL 1 - AREA 3B  
SCALE: 1/8" = 1'-0"

NO.	REVISIONS / SUBMISSIONS	DATE

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KIVA NO: SDEV NO: CONTRACT NO: 144038

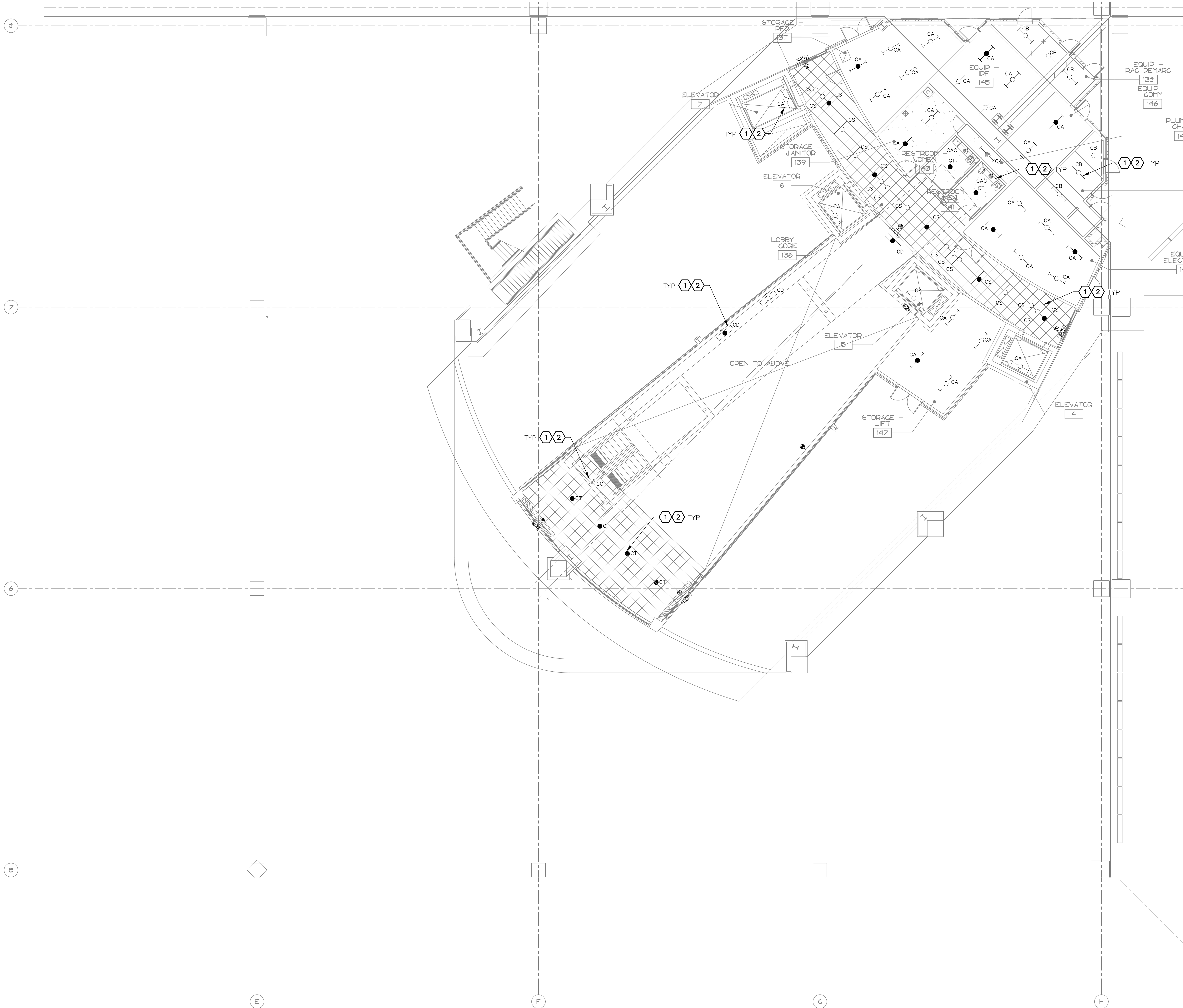
PHX DVI EYE  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
LARGE SCALE ELECTRICAL LIGHTING CORE PLAN  
LEVEL 1  
AREA 3B

Sheet Reference Number:  
**E6.1**

Sheet 65 of 130



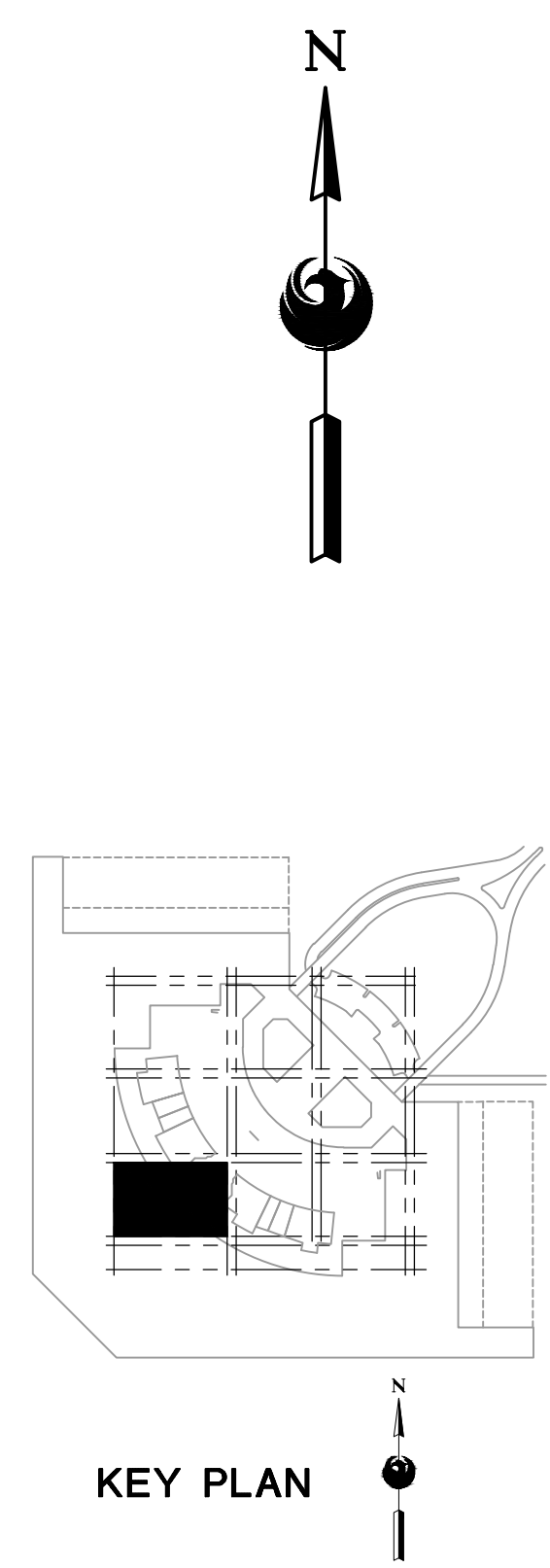
\* SEE SHEET E8.1 FOR ELECTRICAL PANEL LAYOUT PLAN FOR ELECTRICAL ROOM 143

**GENERAL NOTES**

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**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN - LEVEL 1 - AREA 7B**  
SCALE: 1/8" = 1'-0"

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com

**CR engineers**

Professional Engineer  
Catherine M. Alcorn  
30696  
Catherine M. Alcorn  
State of Arizona  
No. 23456

KIVA NO.:  
SDEV NO.:  
CONTRACT NO.: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR LED LIGHT RETROFIT  
AV1500073-1

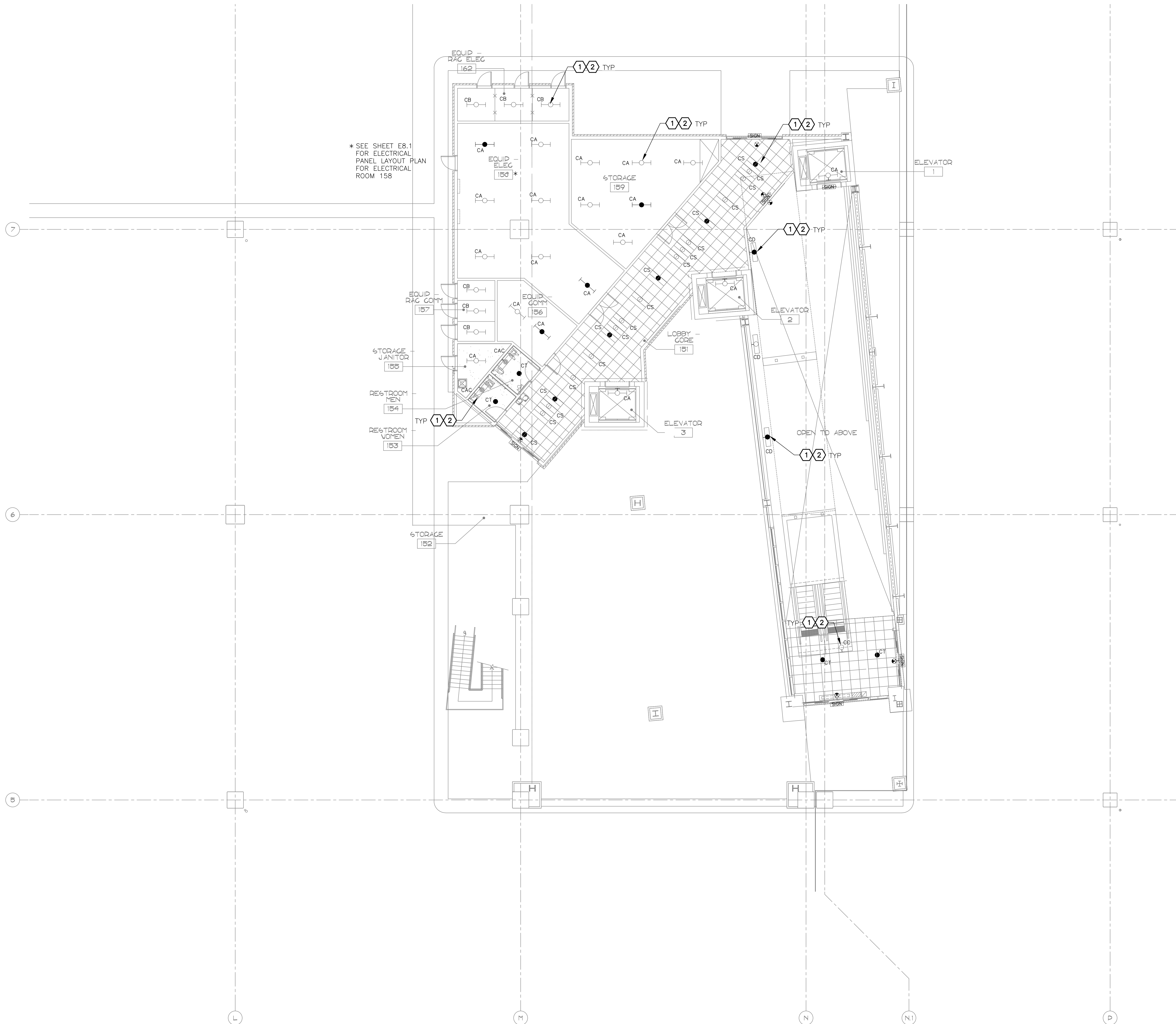
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Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg. scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN**  
LEVEL 1  
AREA 7B

Sheet Reference Number:  
**E6.2**

Sheet 66 of 130

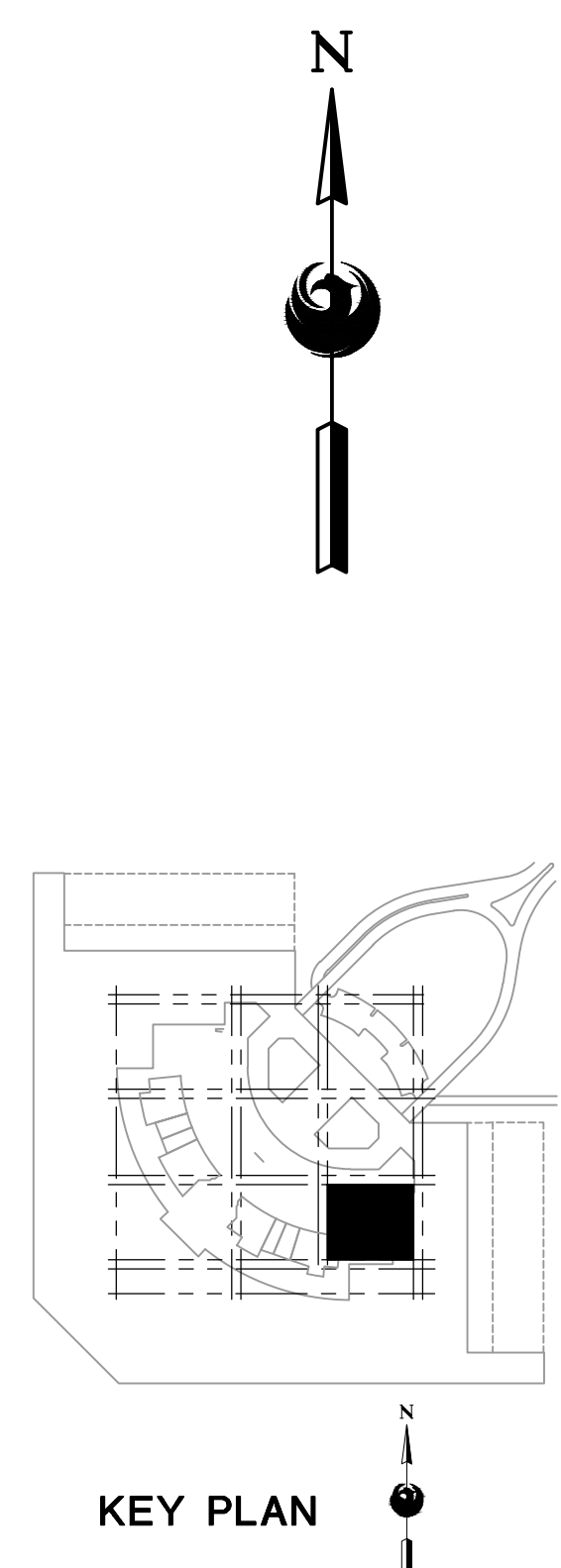
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\* SEE SHEET E8.1 FOR ELECTRICAL PANEL LAYOUT PLAN FOR ELECTRICAL ROOM 158

- GENERAL NOTES**
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**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN - LEVEL 1 - AREA 8B**  
SCALE: 1/8" = 1'-0"

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN**  
LEVEL 1  
AREA 8B

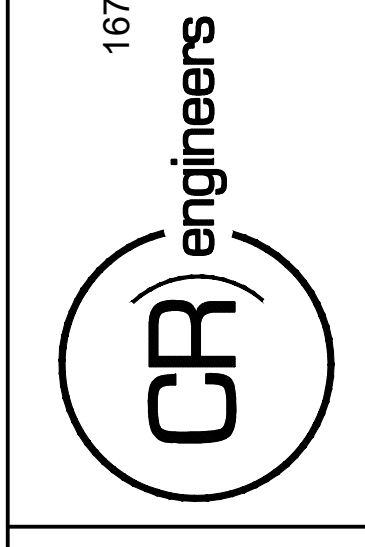
Sheet Reference Number:  
**E6.3**  
Sheet 67 of 130

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

NO.	REVISIONS / SUBMISSIONS	DATE

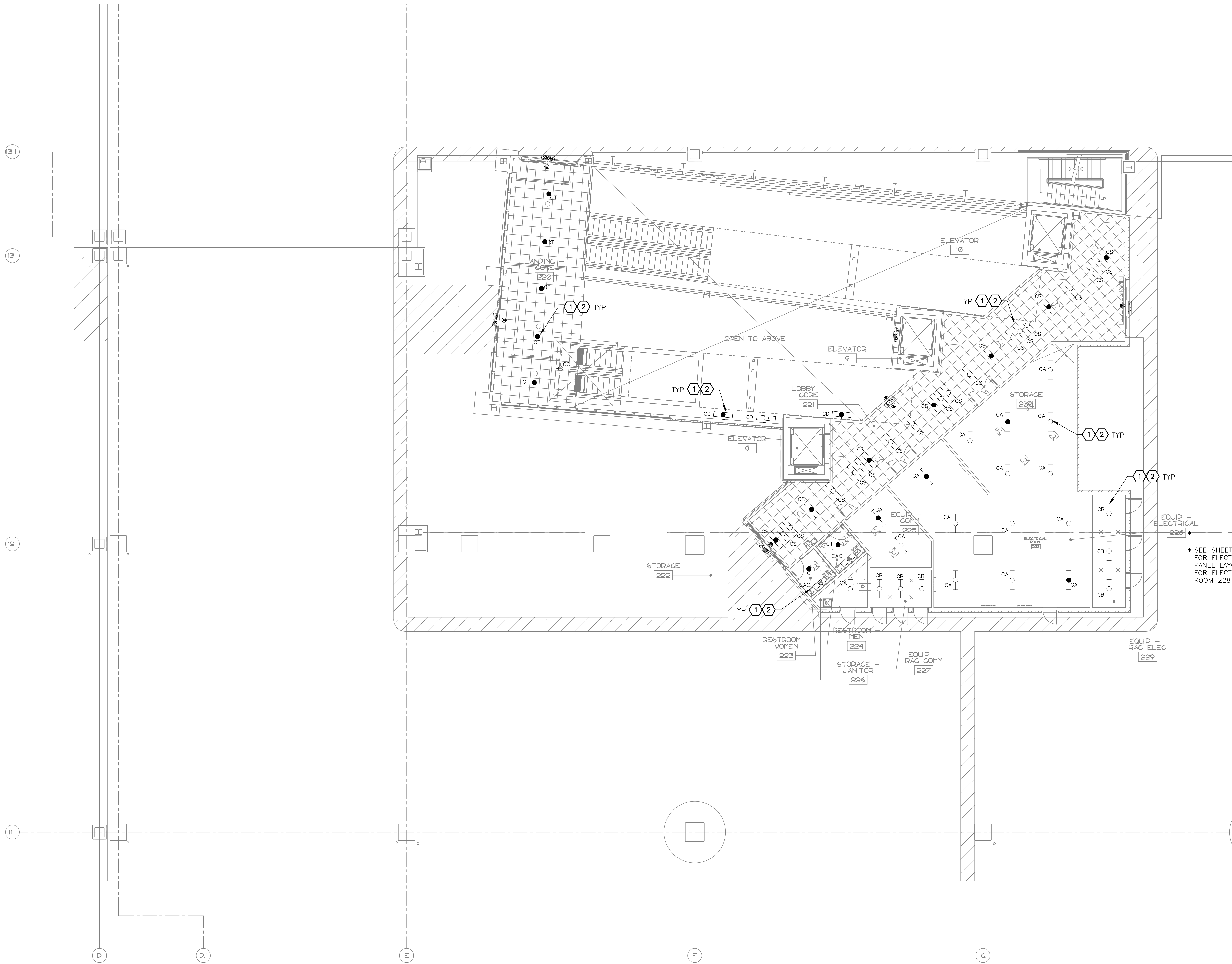
PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038



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Fountain Hills, AZ 85268  
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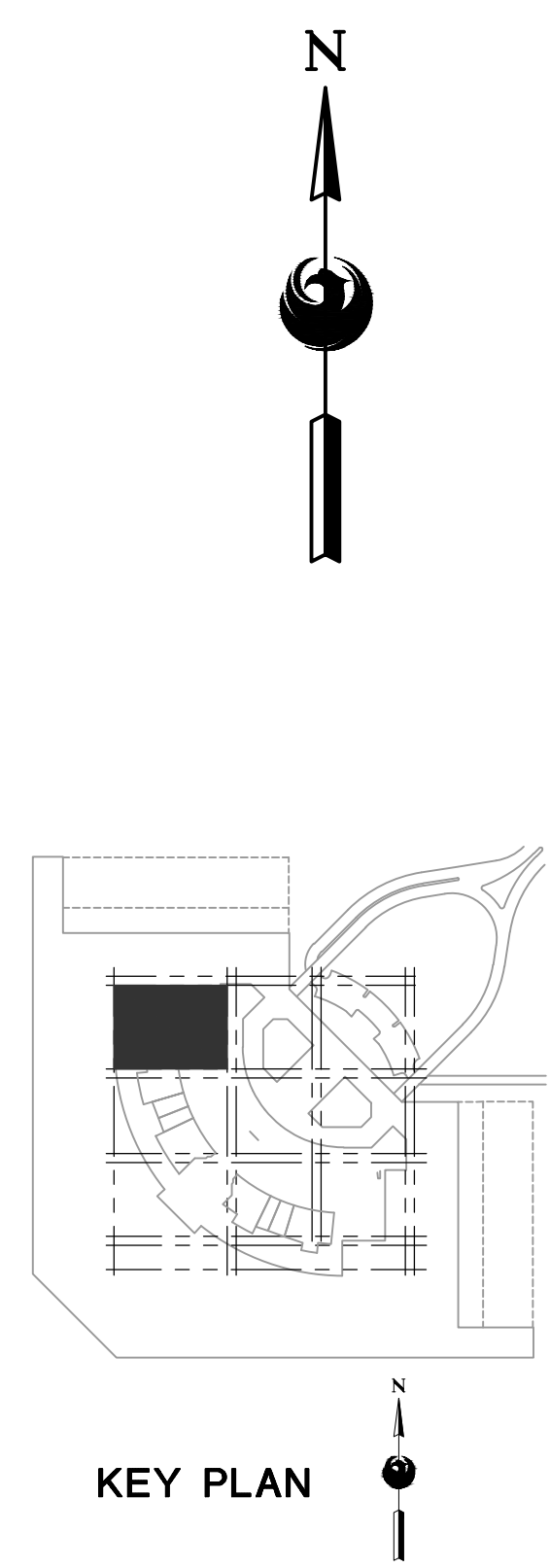
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- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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  - GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.

\* SEE SHEET E8.2 FOR ELECTRICAL PANEL LAYOUT PLAN FOR ELECTRICAL ROOM 228



**A** LARGE SCALE ELECTRICAL LIGHTING CORE PLAN - LEVEL 2 - AREA 3B  
SCALE: 1/8" = 1'-0"

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KIVA NO: \_\_\_\_\_  
SDEV NO: \_\_\_\_\_  
CONTRACT NO: 144038

NO.	REVISIONS / SUBMISSIONS	DATE

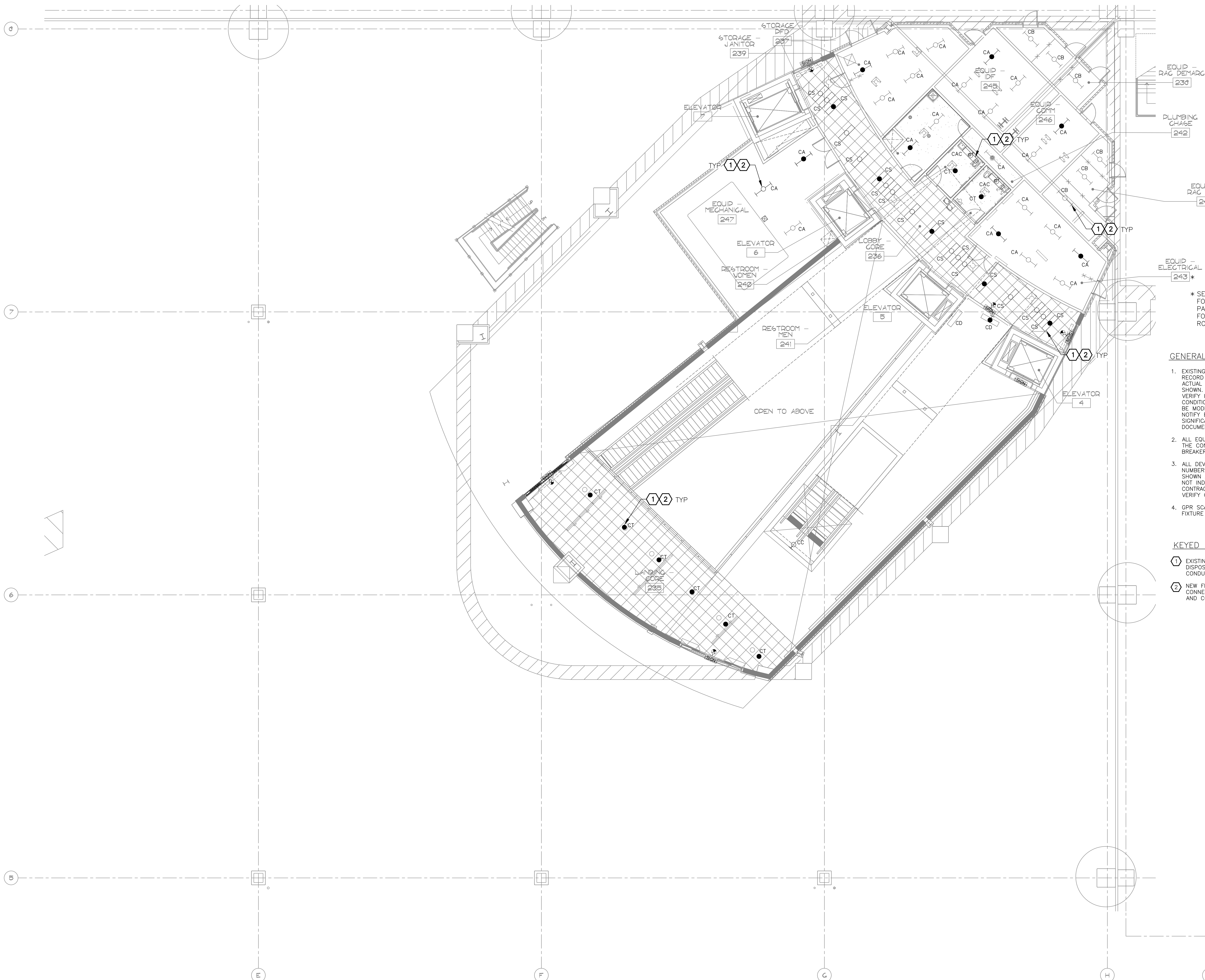
PHX DVI EYE  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR LED LIGHT RETROFIT  
AV15000073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN**  
LEVEL 2  
AREA 3B

Sheet Reference Number:  
**E6.4**

Sheet 68 of 130



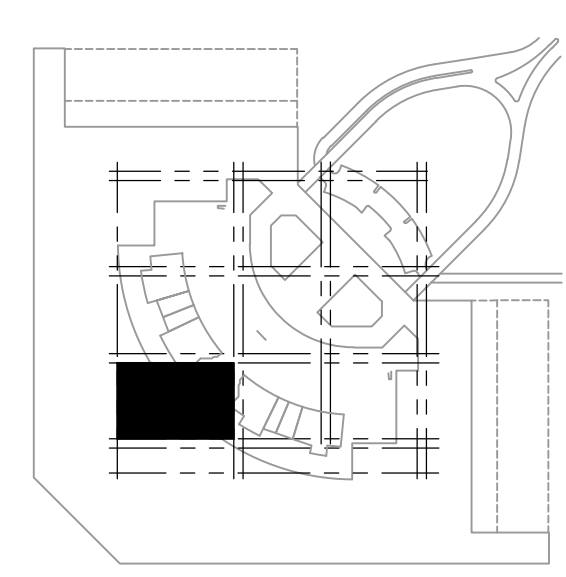
\* SEE SHEET E8.2 FOR ELECTRICAL PANEL LAYOUT PLAN FOR ELECTRICAL ROOM 243

**GENERAL NOTES**

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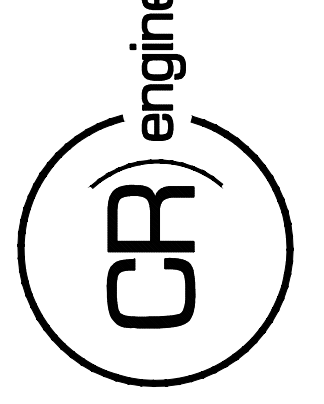
**KEYED NOTES**

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- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.



**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN - LEVEL 2 - AREA 7B**  
SCALE: 1/8" = 1'-0"

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SDEV NO:  
CONTRACT NO: 144038

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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

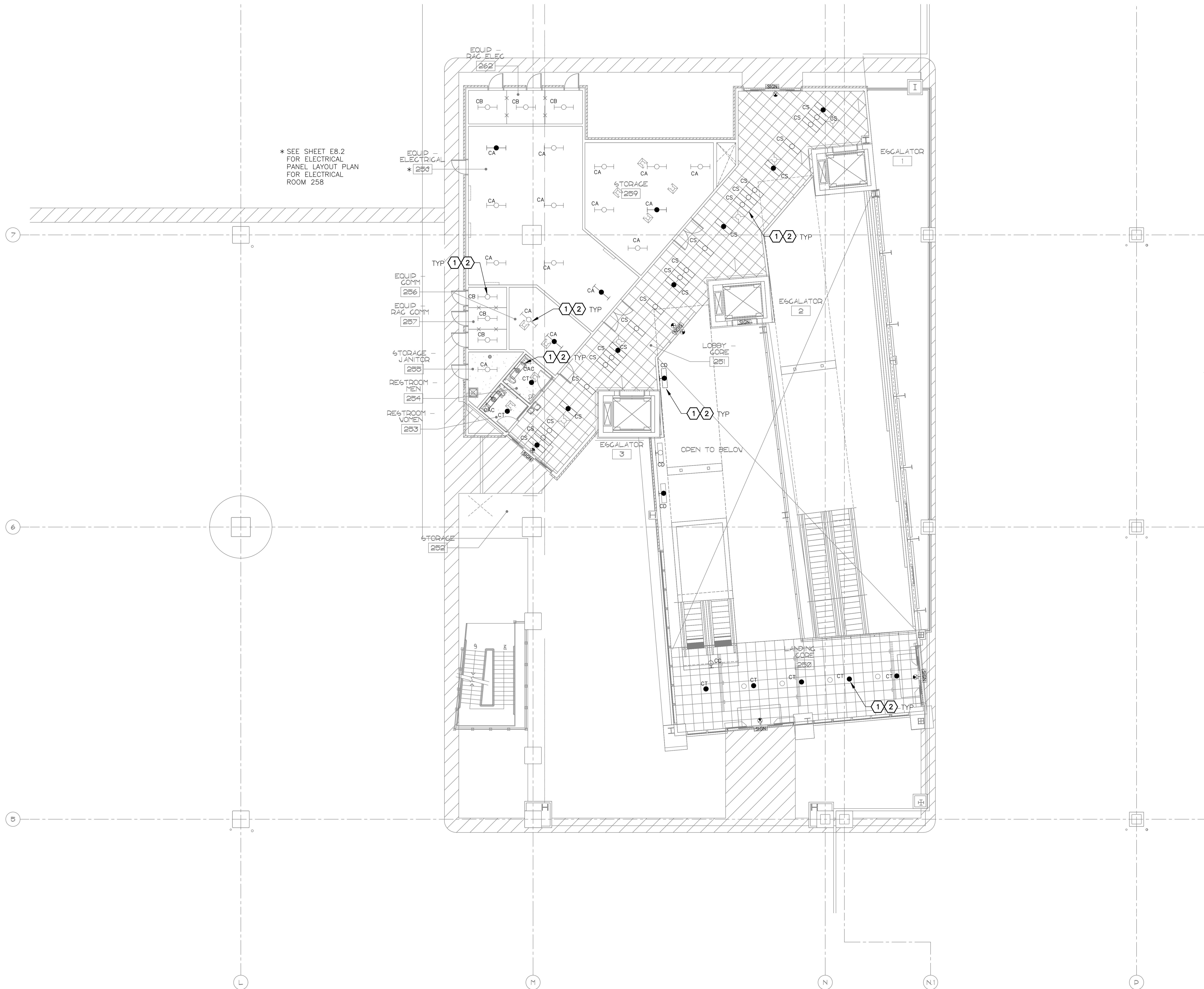
Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN LEVEL 2 AREA 7B**

Sheet Reference Number:  
**E6.5**  
Sheet 69 of 130

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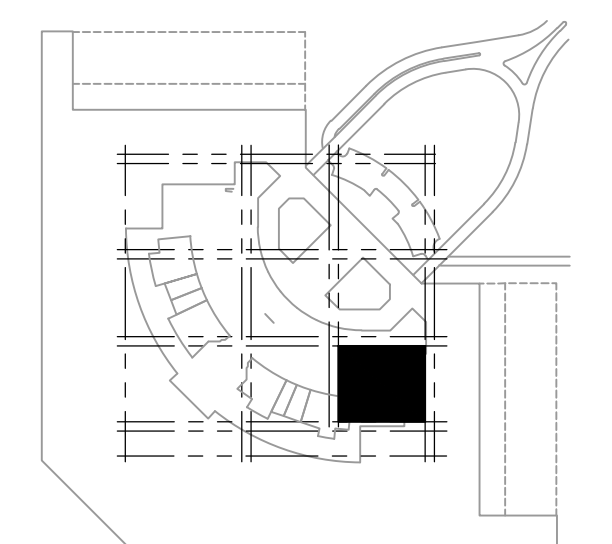
\* SEE SHEET E6.2 FOR ELECTRICAL PANEL LAYOUT PLAN FOR ELECTRICAL ROOM 258

**GENERAL NOTES**

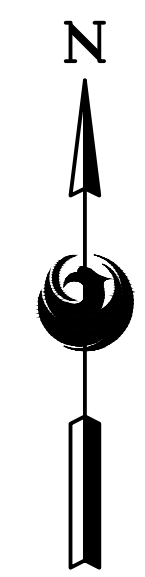
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**KEYED NOTES**

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KEY PLAN



**A** LARGE SCALE ELECTRICAL LIGHTING CORE PLAN - LEVEL 2 - AREA 8B  
SCALE: 1/8" = 1'-0"

PSH RENTAL CAR LED LIGHT RETROFIT  
**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN**  
LEVEL 2  
AREA 8B

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

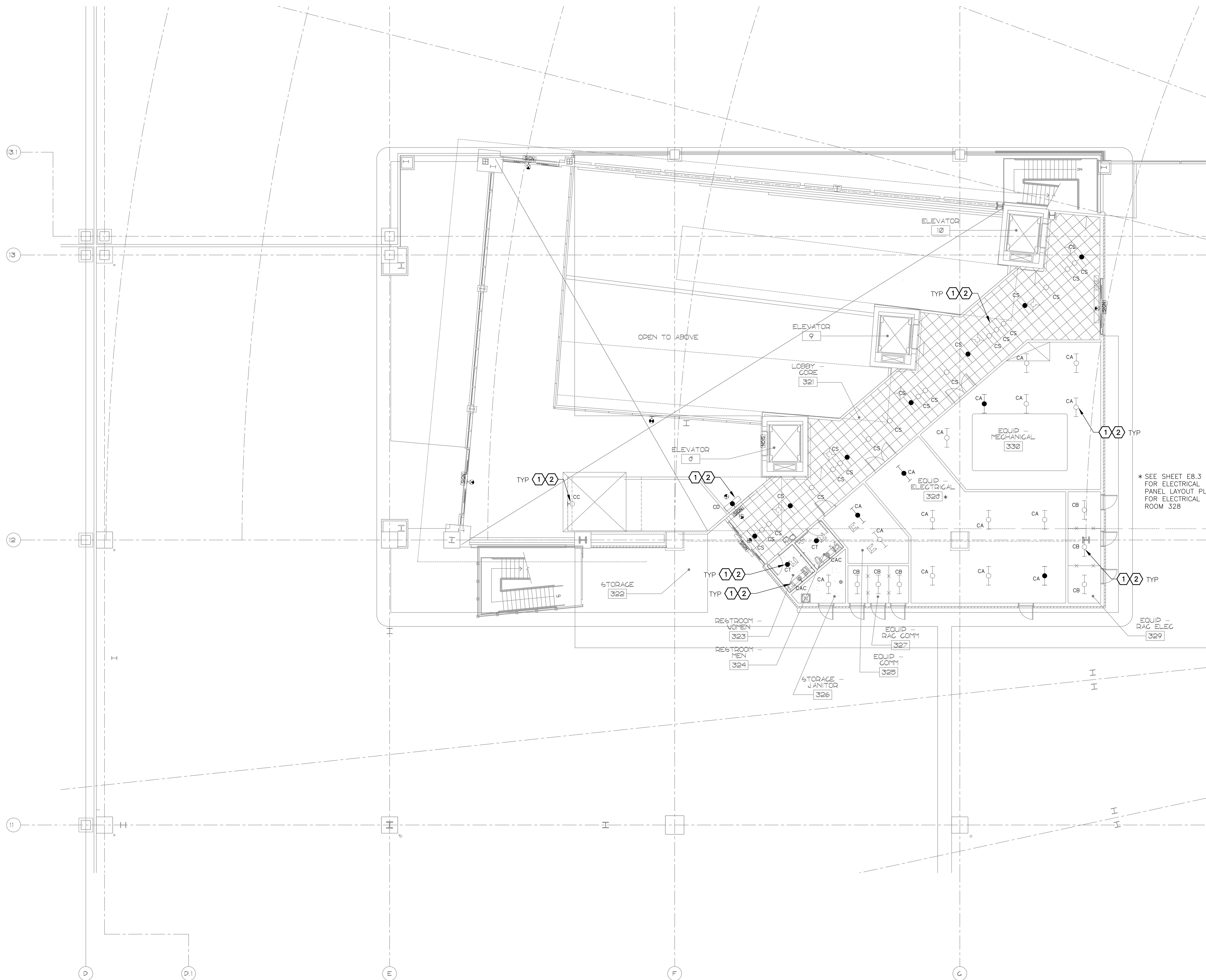
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KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038



**CR engineers**

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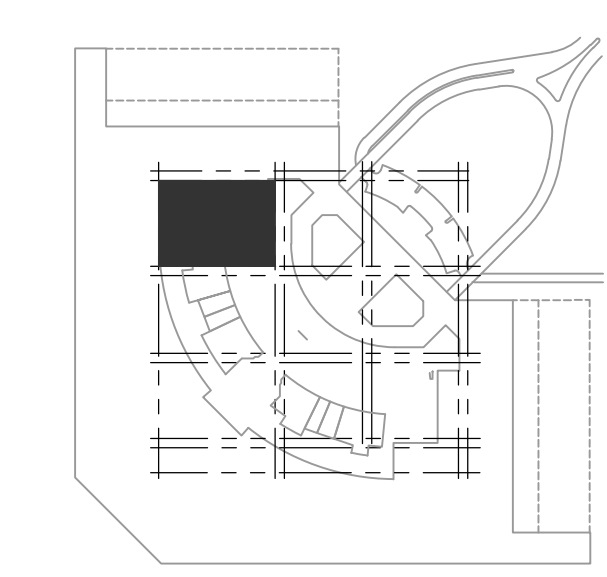
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\* SEE SHEET E8.3 FOR ELECTRICAL PANEL LAYOUT PLAN FOR ELECTRICAL ROOM 328



**A** LARGE SCALE ELECTRICAL LIGHTING CORE PLAN - LEVEL 3 - AREA 3B  
SCALE: 1/8" = 1'-0"

**KEY PLAN**

PROJECTS\21000\21009\_PSH\_RCC\_LED\_Lght\_Retrofit\CAD\_SHEETS\17055\_E8.7\_LARGE\_SCALE\_ELECTRICAL\_LIGHTING\_CORE\_PLAN - LEVEL 3 - AREA 3B.dwg - Dec 20 2022 3:01pm

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Arizona State Board of Engineers and Architects

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SDEV NO: CONTRACT NO: 144038

NO.	REVISIONS / SUBMISSIONS	DATE

Designed by: RD  
Drawn by: SBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

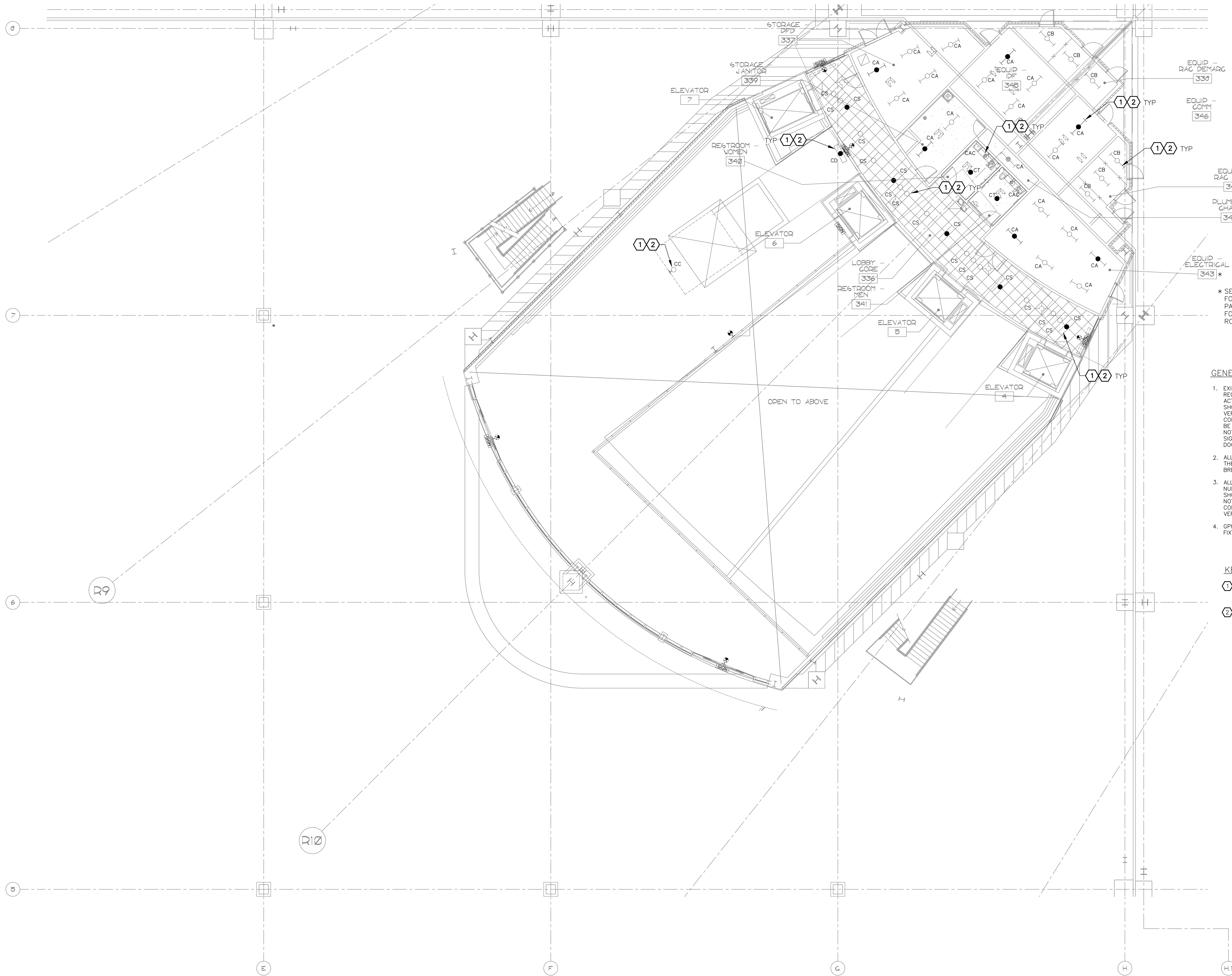
**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN LEVEL 3 AREA 3B**

Sheet Reference Number:  
**E6.7**

Sheet Reference Number:  
**E6.7**

Sheet 71 of 130



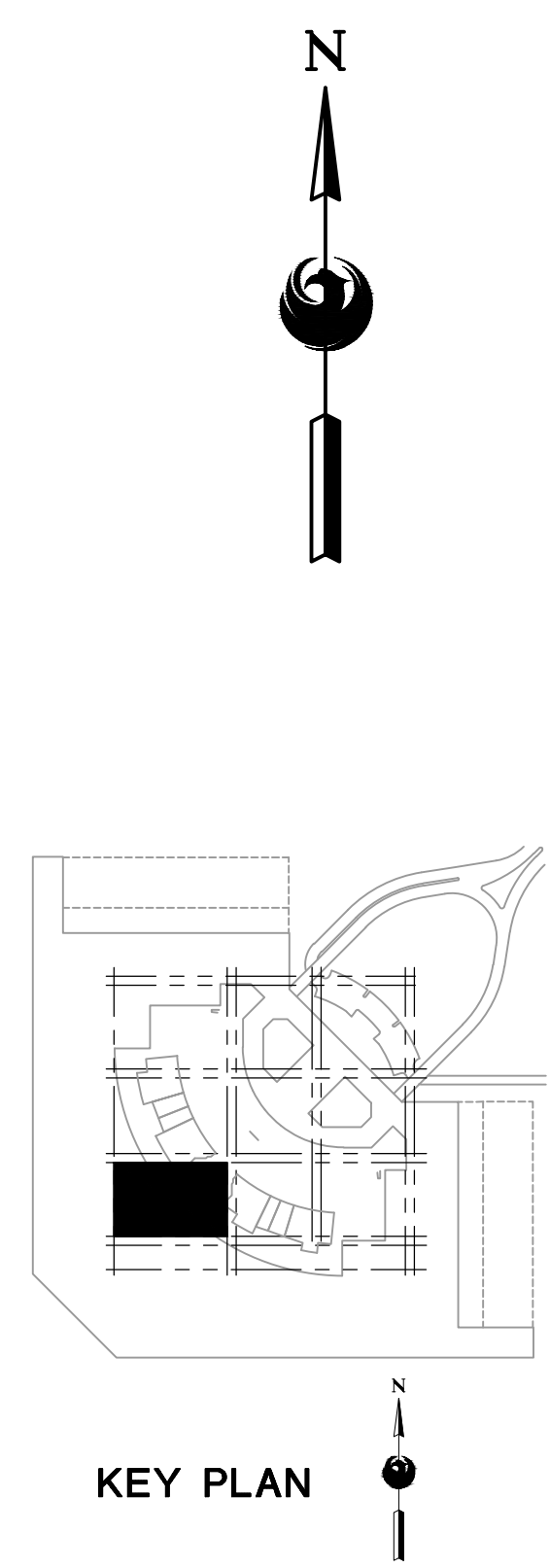
\* SEE SHEET E8.3 FOR ELECTRICAL PANEL LAYOUT PLAN FOR ELECTRICAL ROOM 343

**GENERAL NOTES**

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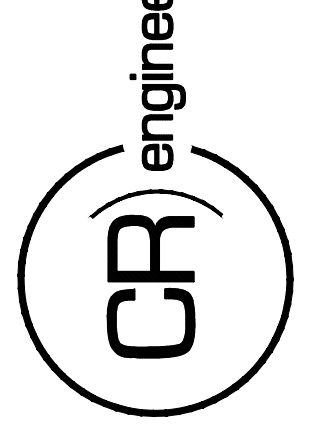
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**A** LARGE SCALE ELECTRICAL LIGHTING CORE PLAN – LEVEL 3 – AREA 7B  
SCALE: 1/8" = 1'-0"

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SDEV NO:  
CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV15000073-1

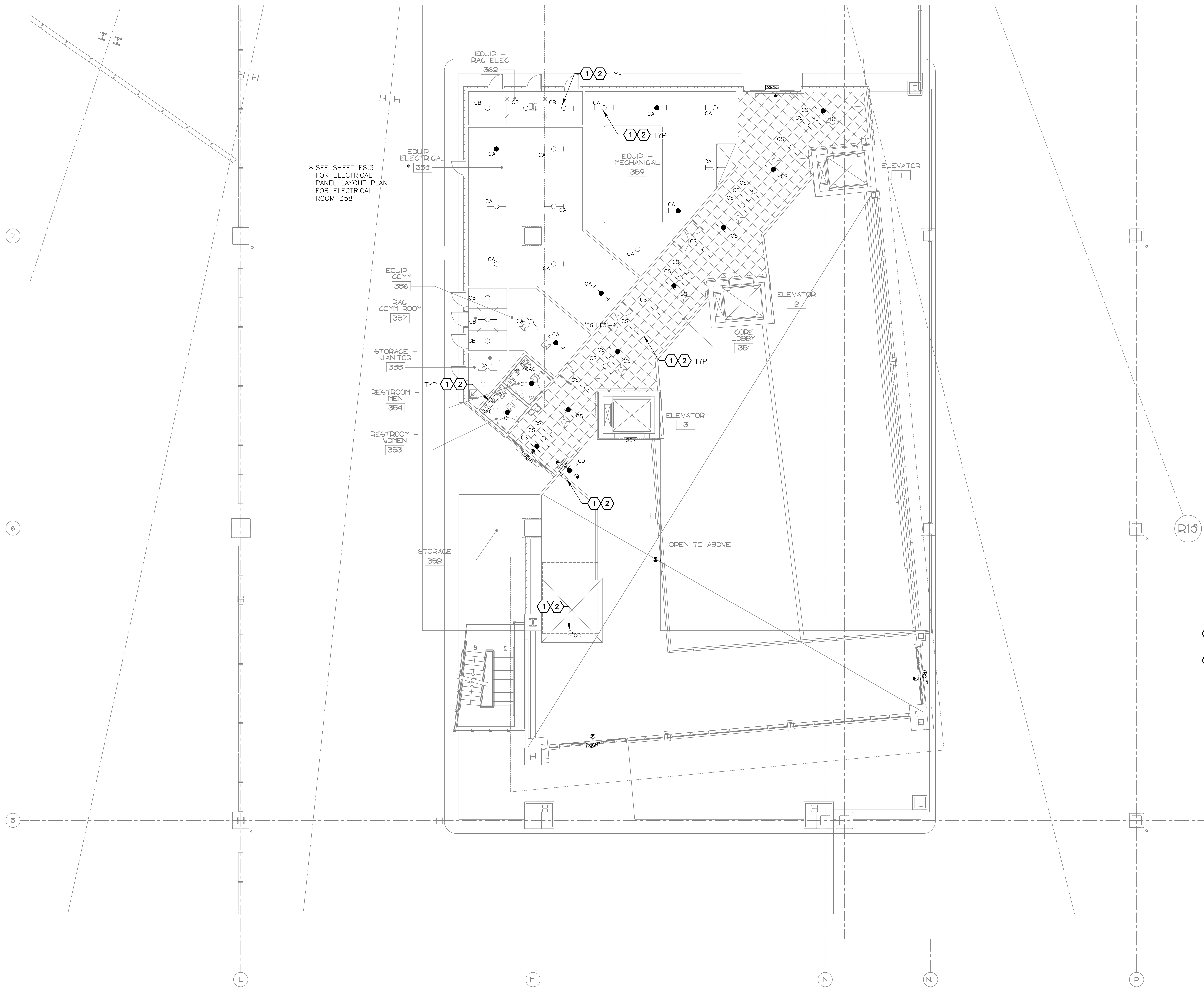
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Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN**  
LEVEL 3  
AREA 7B

Sheet Reference Number:  
**E6.8**  
Sheet 72 of 130



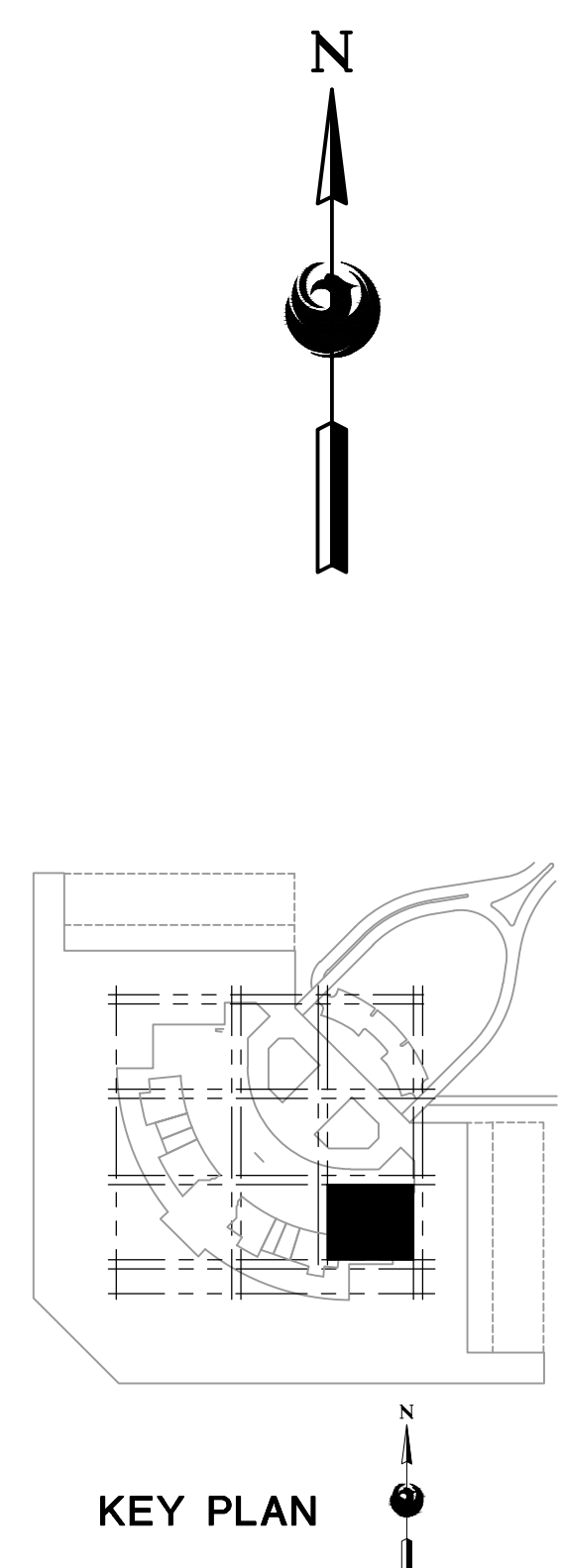
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\* SEE SHEET E8.3 FOR ELECTRICAL PANEL LAYOUT PLAN FOR ELECTRICAL ROOM 358

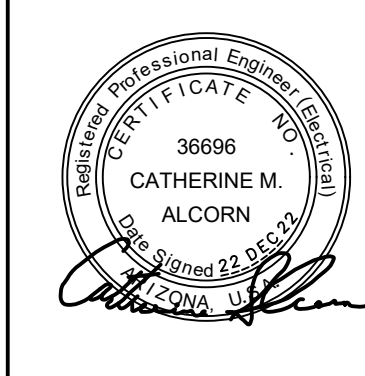
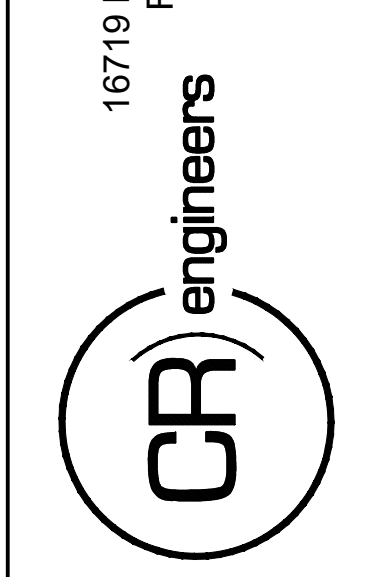
- GENERAL NOTES**
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**A** LARGE SCALE ELECTRICAL LIGHTING CORE PLAN - LEVEL 3 - AREA 8B  
SCALE: 1/8" = 1'-0"

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SDEV NO:  
CONTRACT NO:

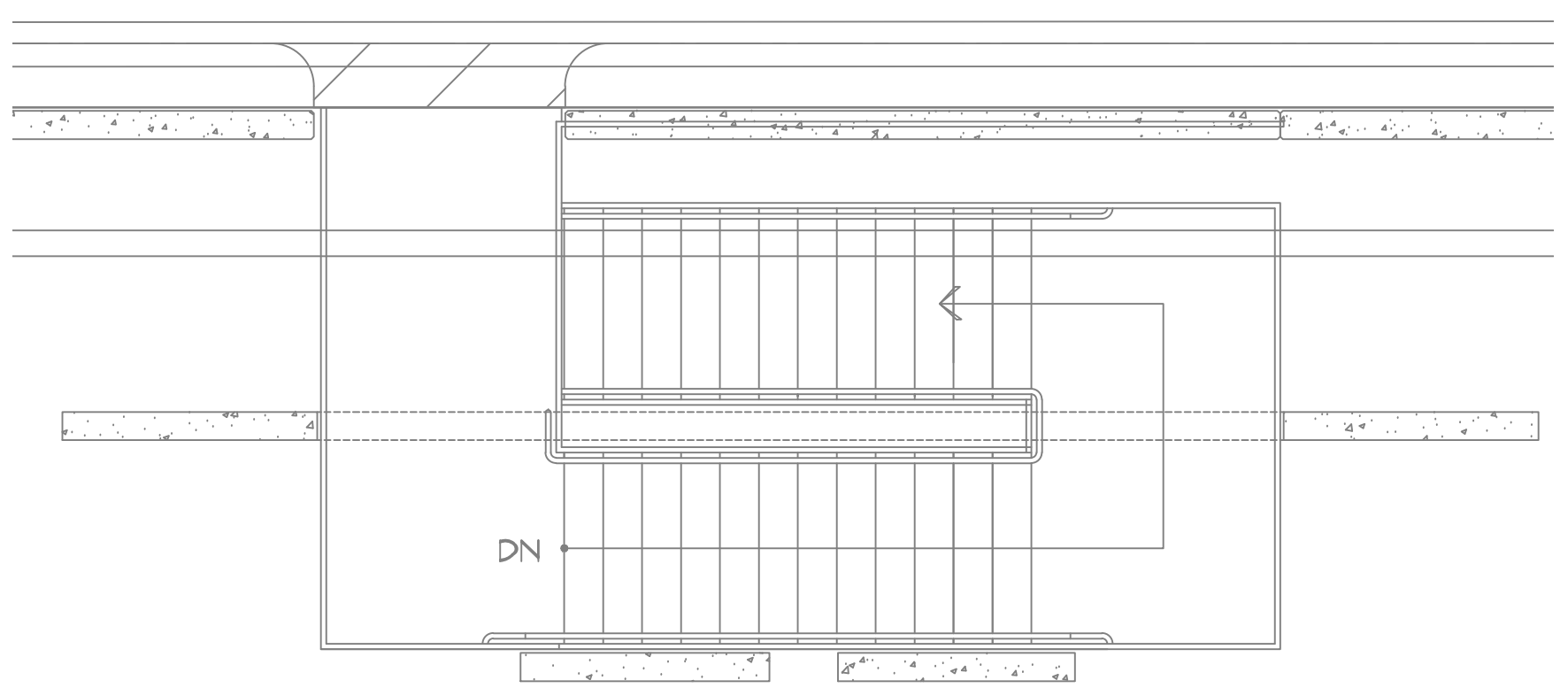
PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

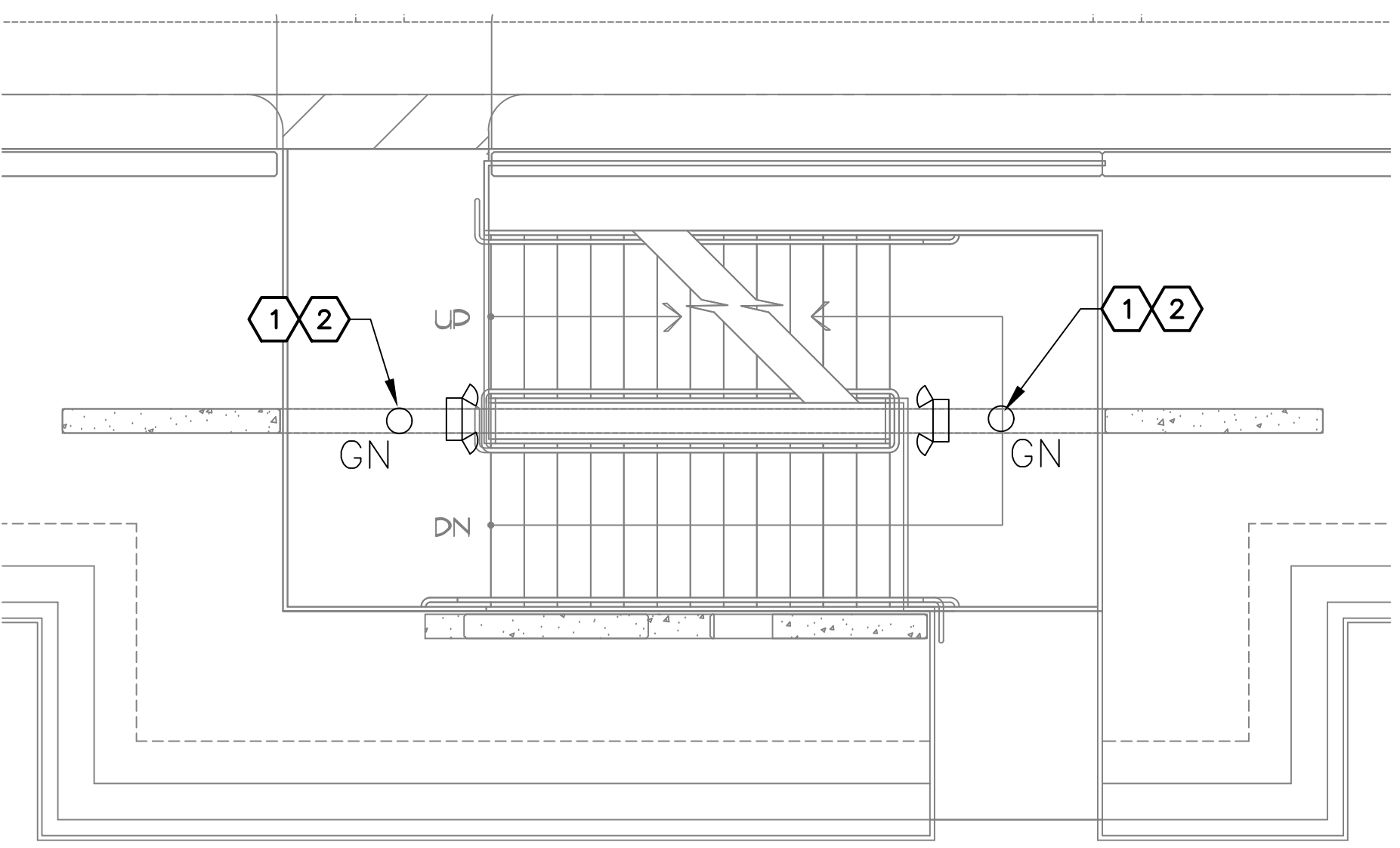
**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV15000073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

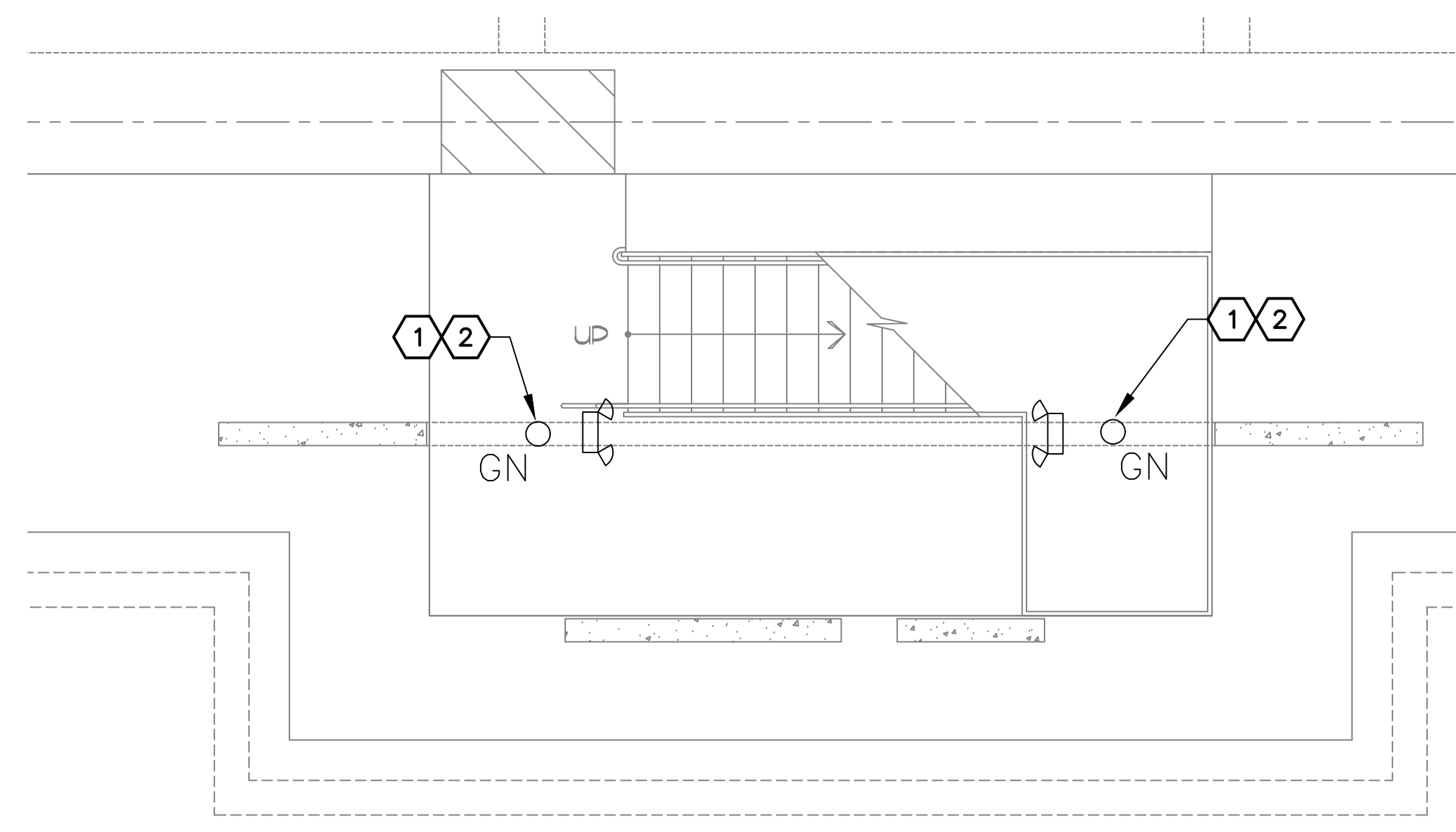
PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LARGE SCALE ELECTRICAL LIGHTING CORE PLAN**  
LEVEL 3  
AREA 8B



**3** STAIRS A.D.E.N. & P LIGHTING PLAN – LEVEL 3  
SCALE: 1/4" = 1'-0"



**2** STAIRS A.D.E.N. & P LIGHTING PLAN – LEVEL 2  
SCALE: 1/4" = 1'-0"



**1** STAIRS A.D.E.N. & P LIGHTING PLAN – LEVEL 1  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

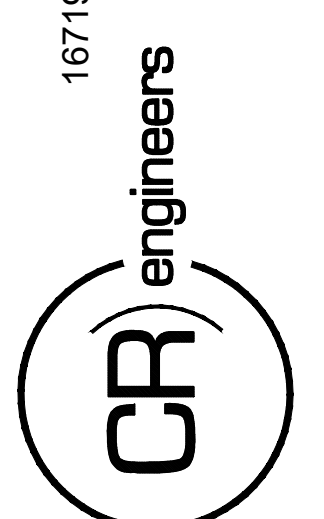
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CONTRACT NO:  
144038

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NO.	REVISIONS / SUBMISSIONS	DATE

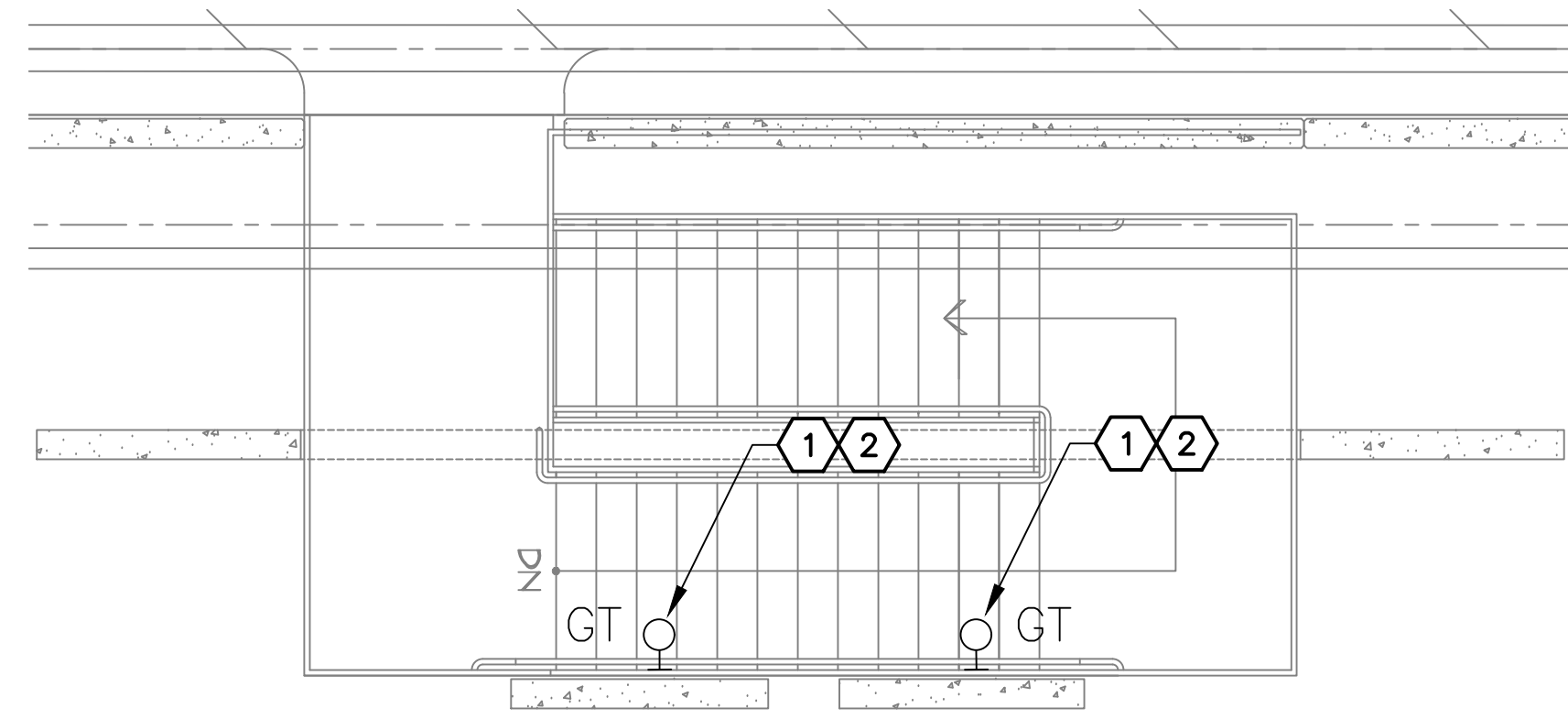
**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg. scale: AS NOTED

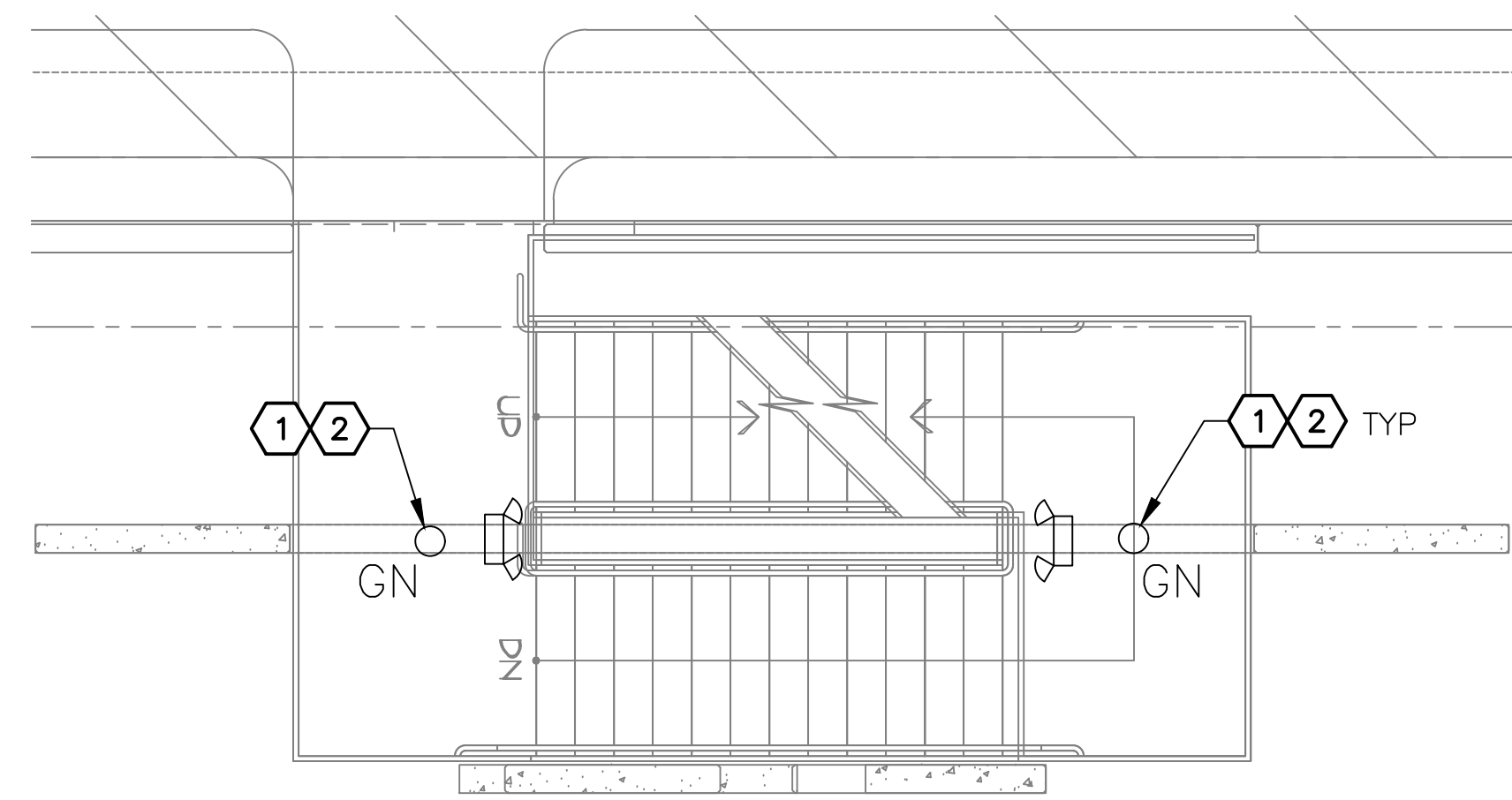
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**STAIRS A.D.E.N. & P LIGHTING PLANS**

Sheet Reference Number:  
**E7.1**  
Sheet 74 of 130

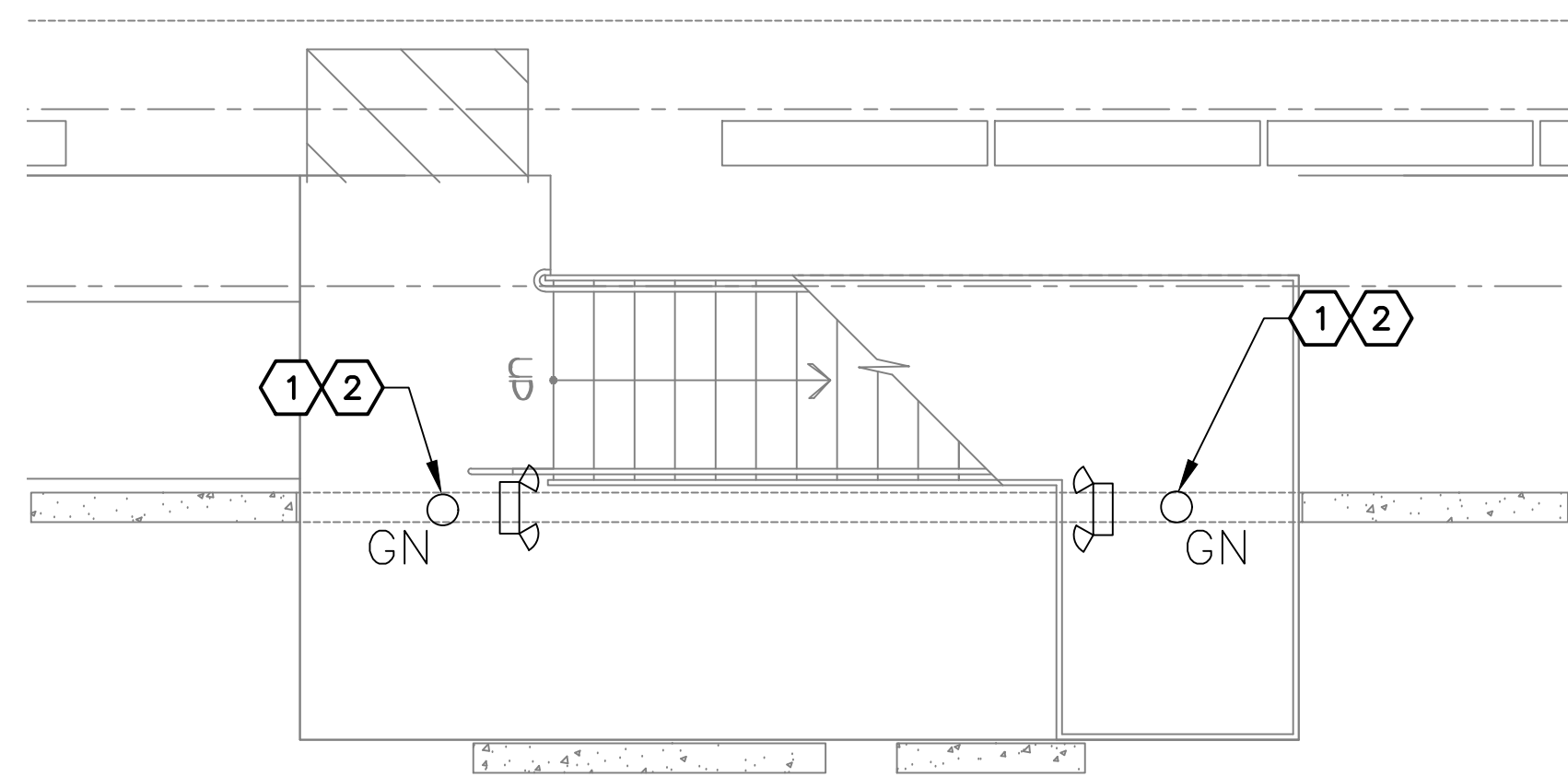
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**C STAIRS B & K LIGHTING PLAN – LEVEL 3**  
SCALE: 1/4" = 1'-0"



**B STAIRS B & K LIGHTING PLAN – LEVEL 2**  
SCALE: 1/4" = 1'-0"



**A STAIRS B & K LIGHTING PLAN – LEVEL 1**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

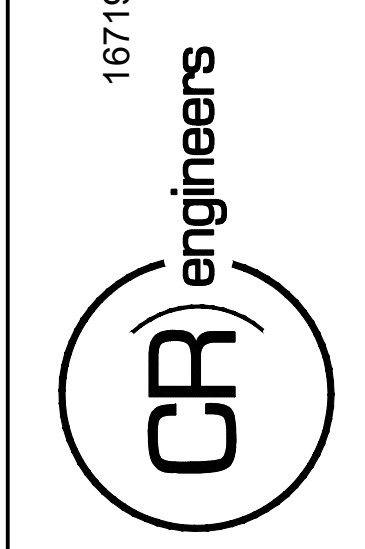
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**KEYED NOTES**

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KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28. THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO THE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

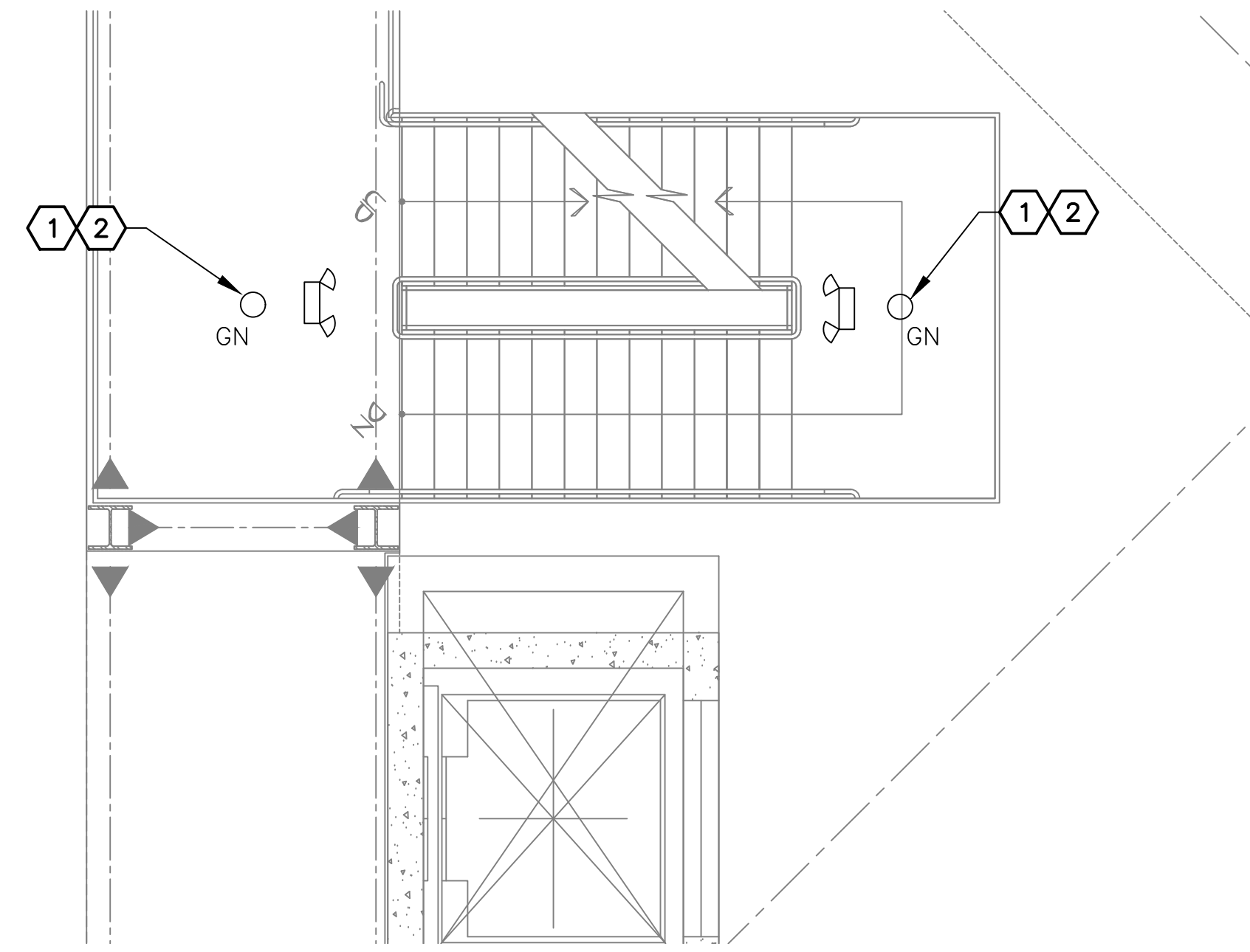
**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: NTS

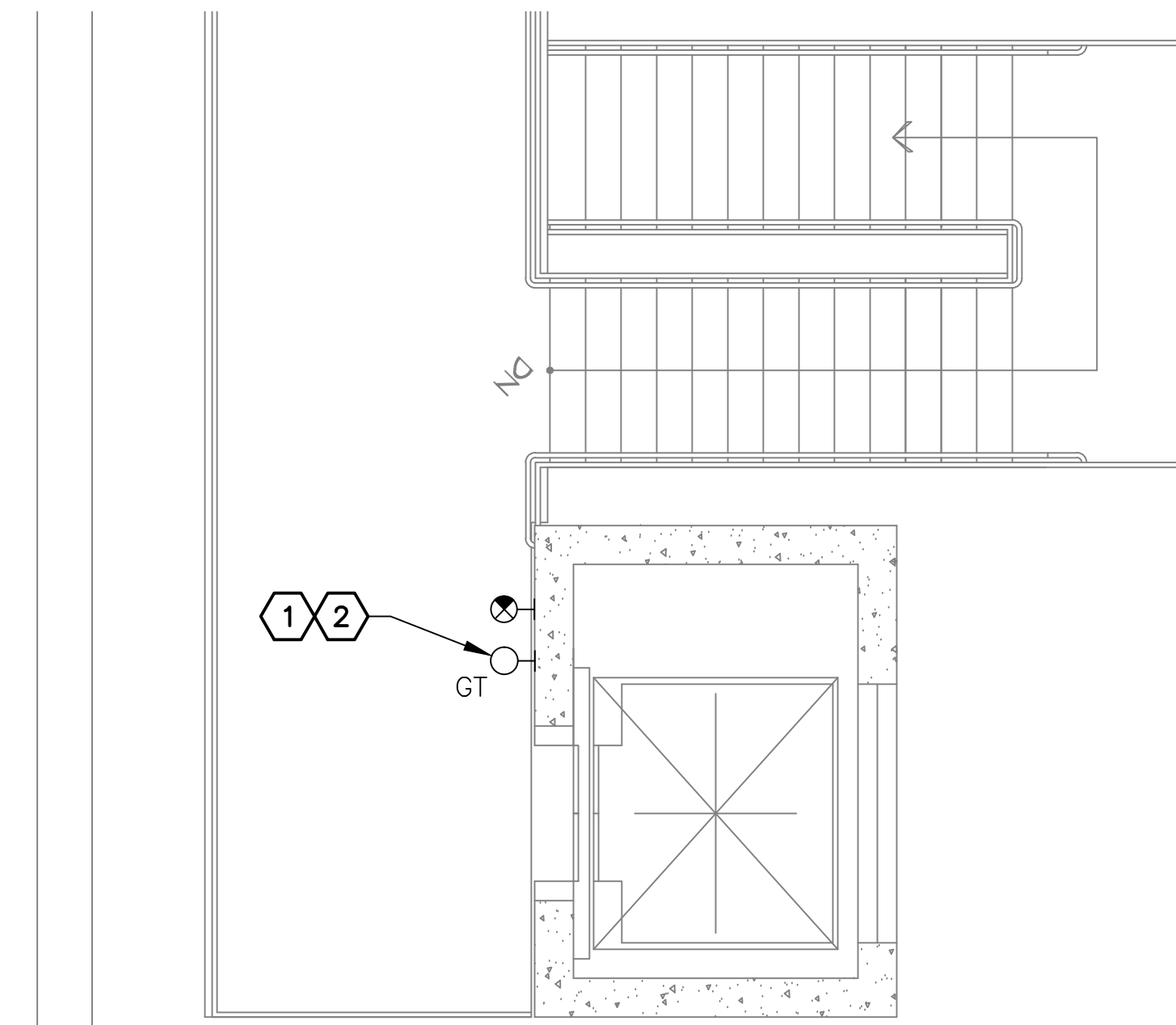
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**STAIRS B & K  
LIGHTING PLANS**

Sheet Reference Number:  
**E7.2**  
Sheet 75 of 130

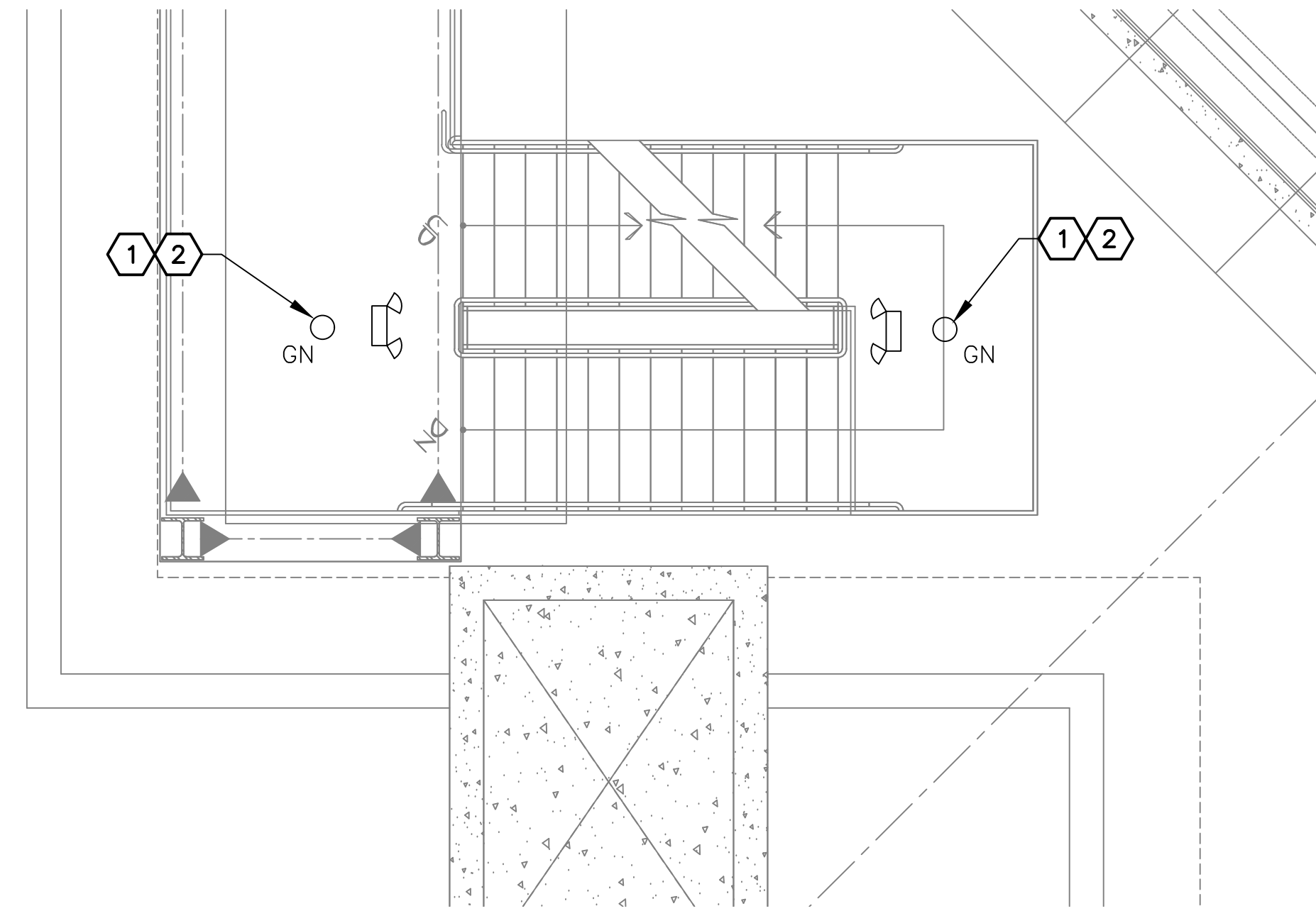
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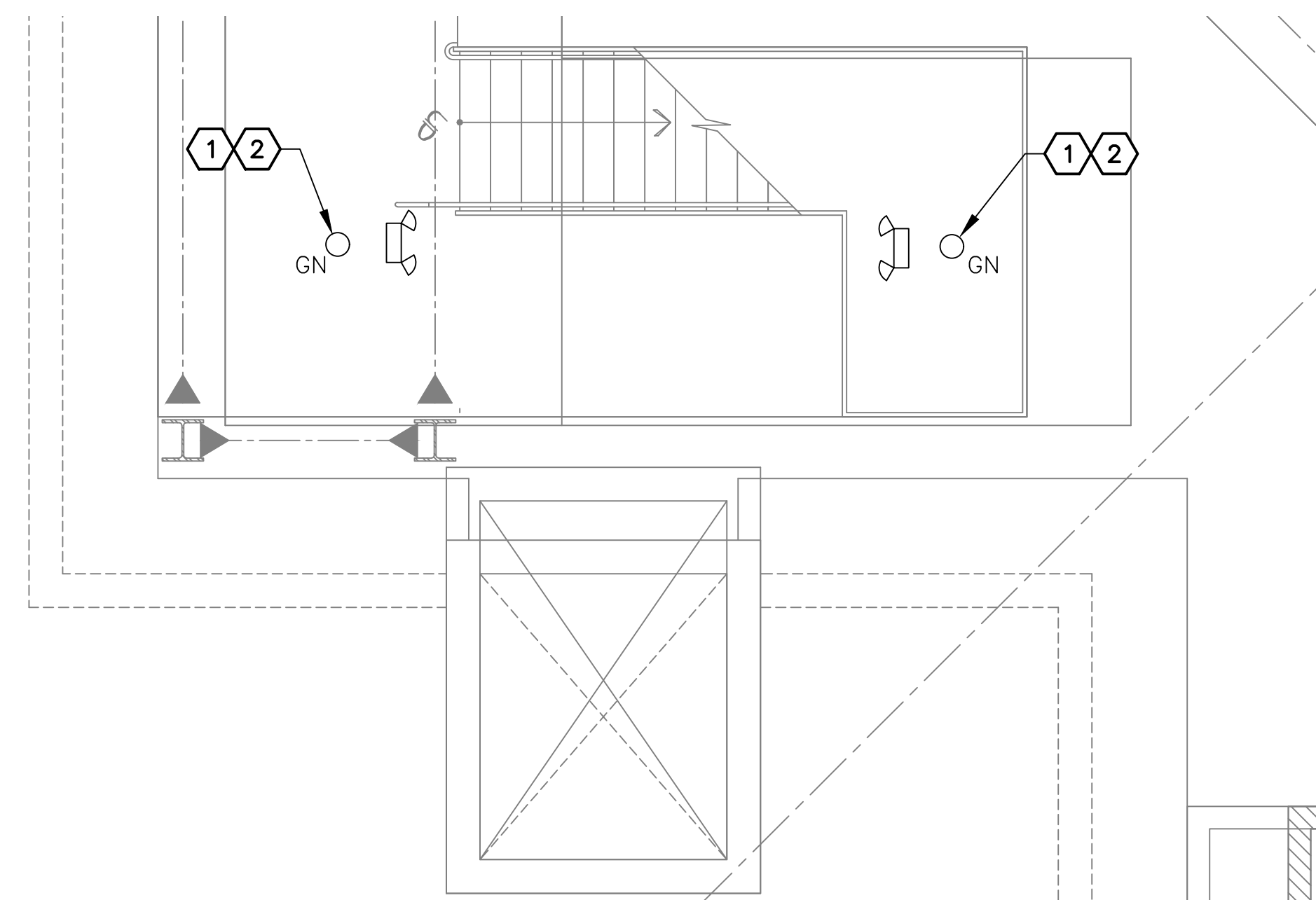
**C** STAIR F LIGHTING PLAN – LEVEL 3  
SCALE: 1/4" = 1'-0"



**D** STAIR F LIGHTING PLAN – LEVEL 4  
SCALE: 1/4" = 1'-0"



**B** STAIRS F LIGHTING PLAN – LEVEL 2  
SCALE: 1/4" = 1'-0"



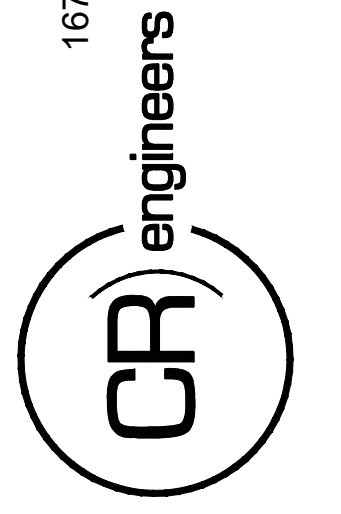
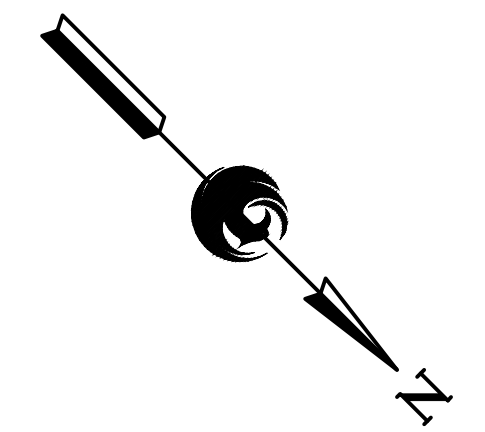
**A** STAIR F LIGHTING PLAN – LEVEL 1  
SCALE: 1/4" = 1'-0"

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SDEV NO:  
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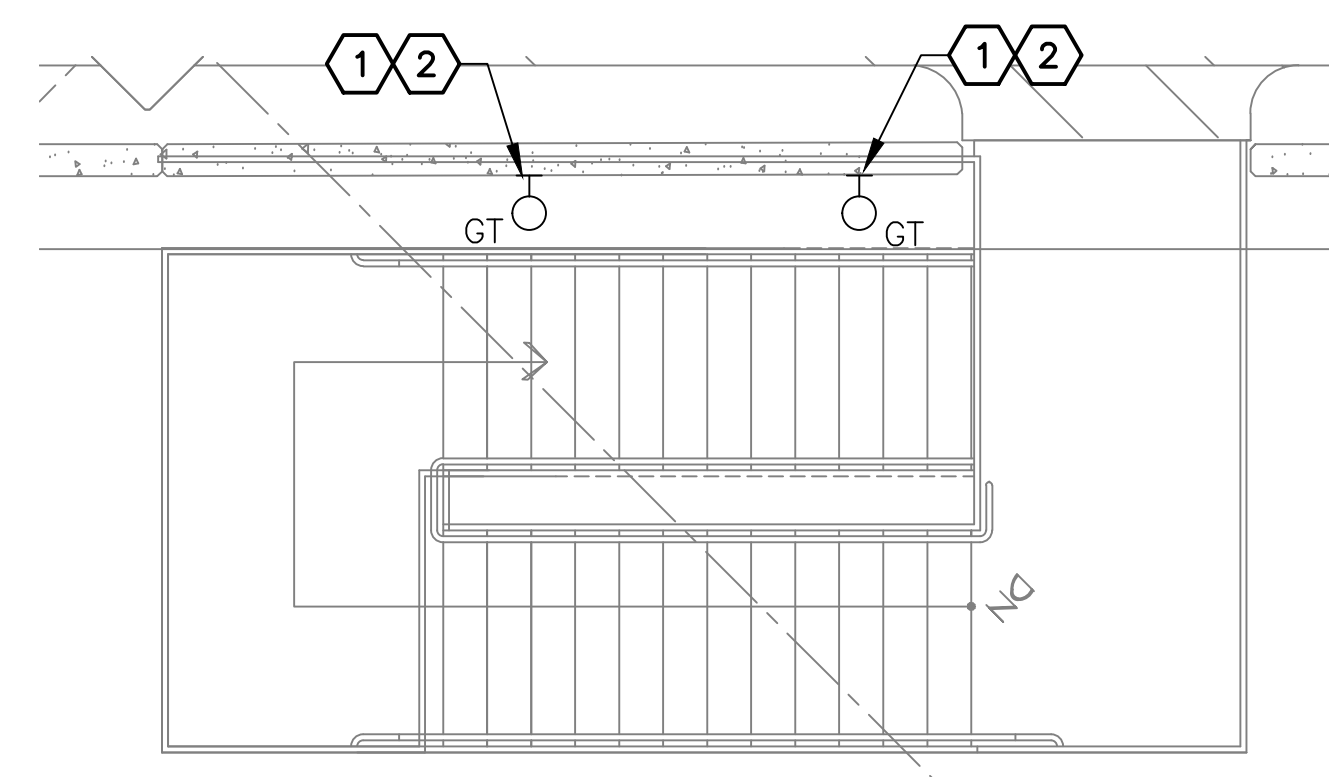
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV15000073-1

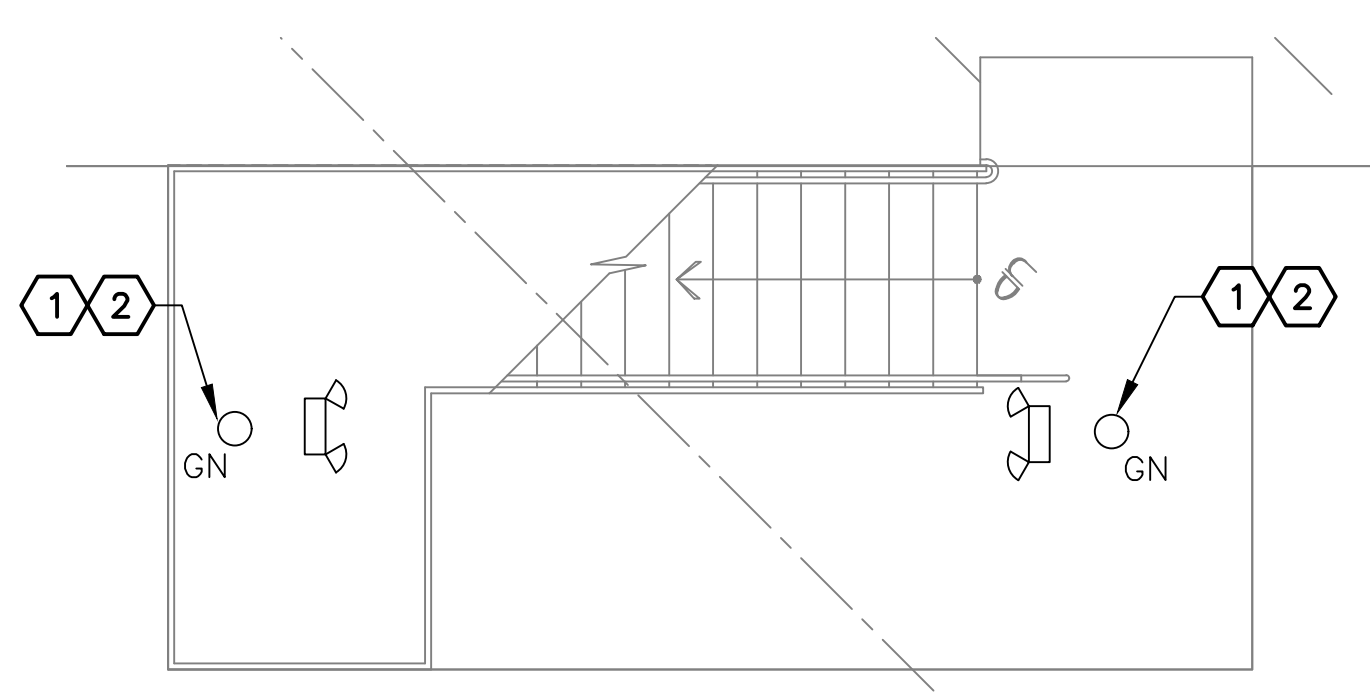
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Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**STAIR F  
LIGHTING PLANS**

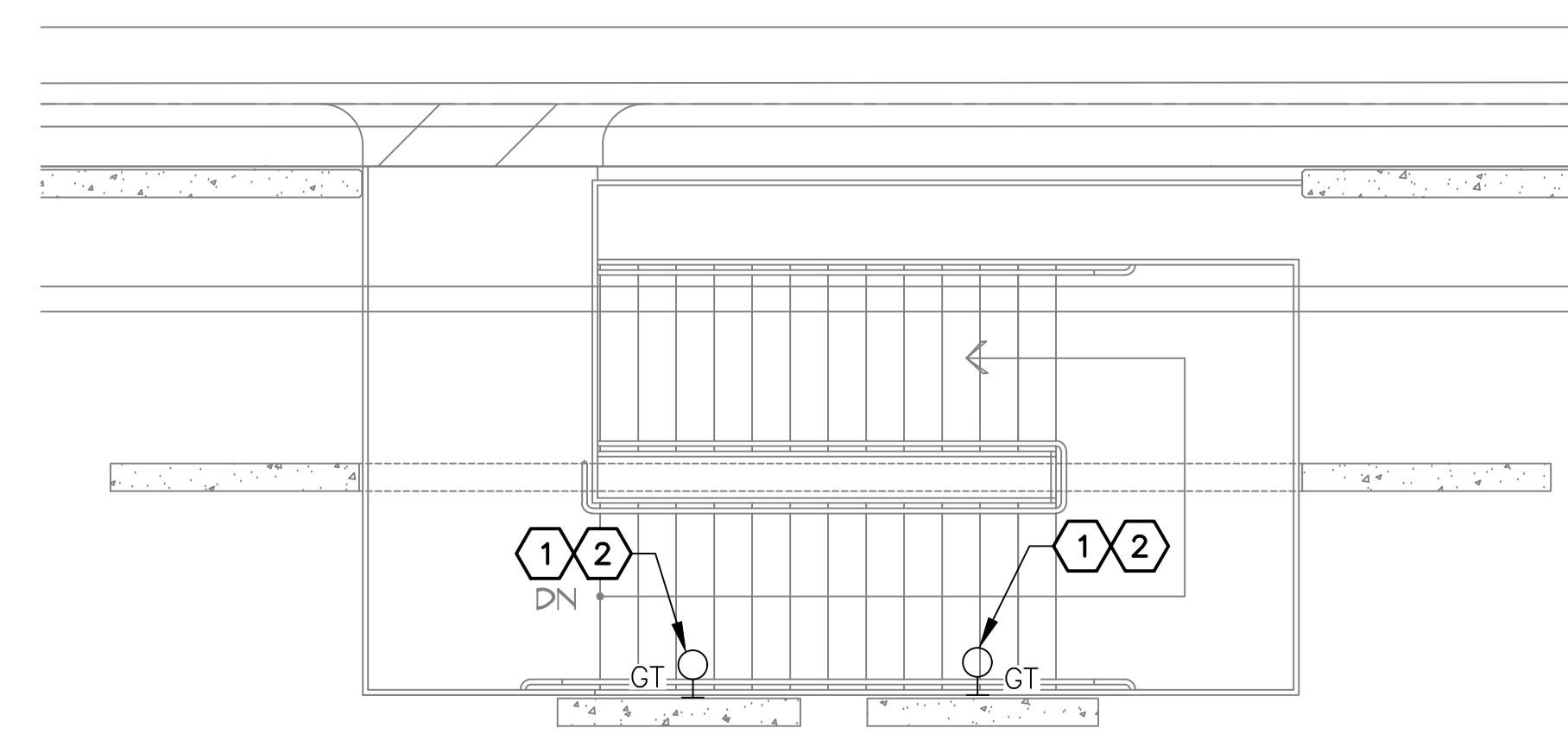
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**E7.3**



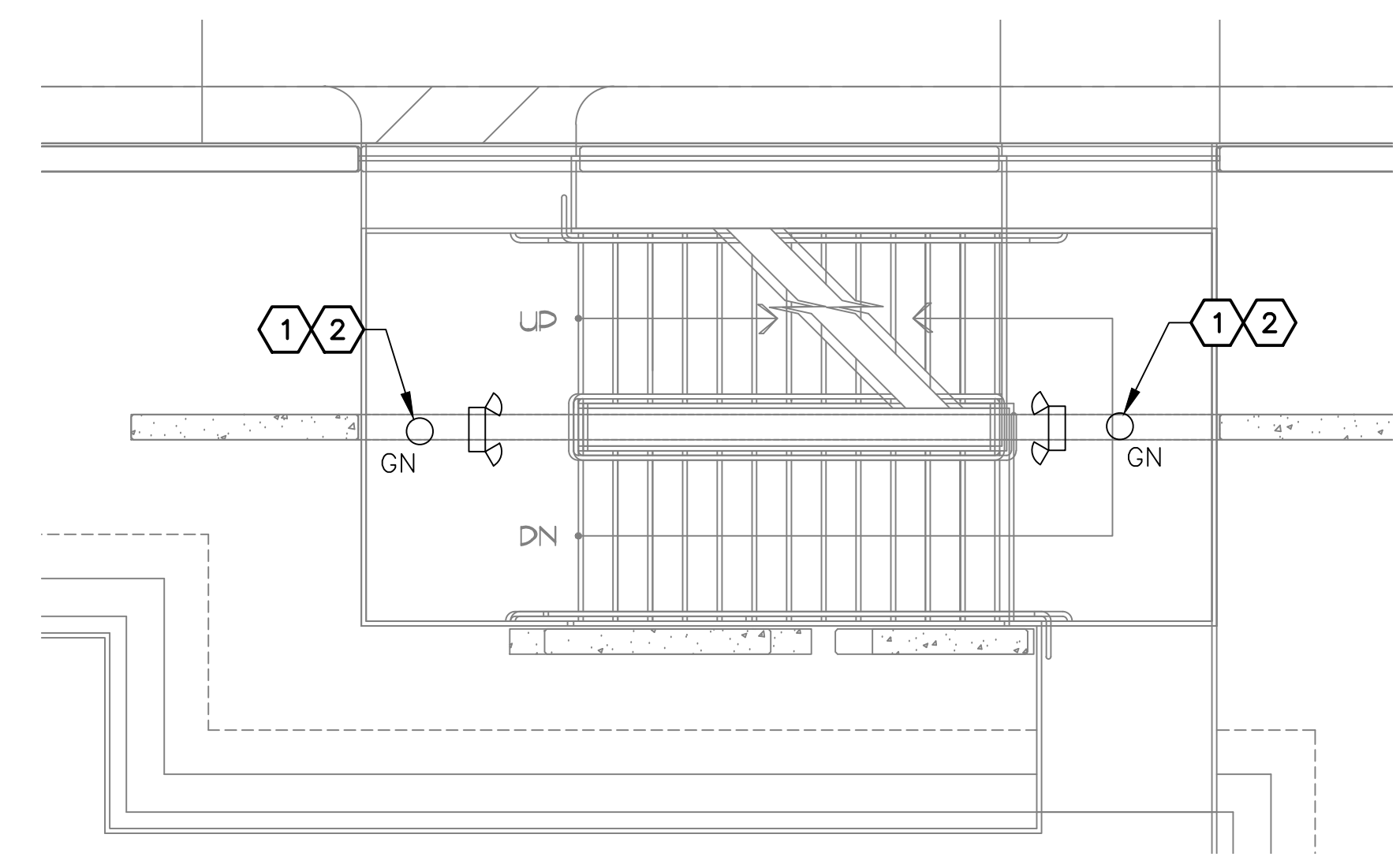
**B** STAIR Q LIGHTING PLAN -- LEVEL 2  
SCALE: 1/4" = 1'-0"



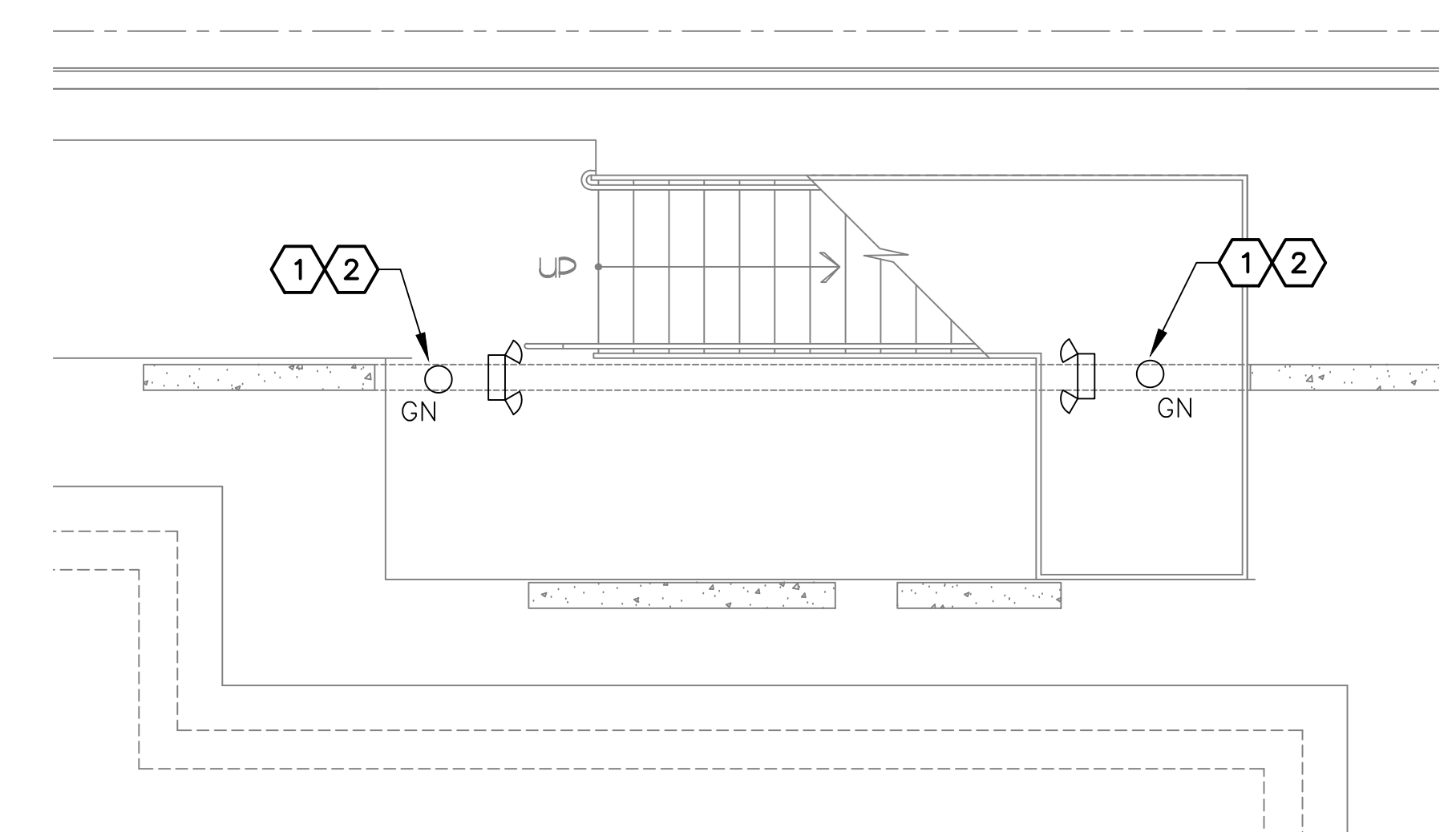
**A** STAIR Q LIGHTING PLAN -- LEVEL 1  
SCALE: 1/4" = 1'-0"



**E** STAIR G LIGHTING PLAN -- LEVEL 3  
SCALE: 1/4" = 1'-0"



**D** STAIR G LIGHTING PLAN -- LEVEL 2  
SCALE: 1/4" = 1'-0"



**C** STAIR G LIGHTING PLAN -- LEVEL 1  
SCALE: 1/4" = 1'-0"

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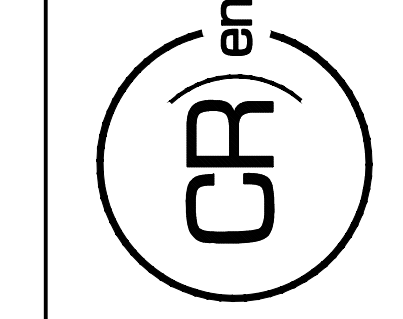
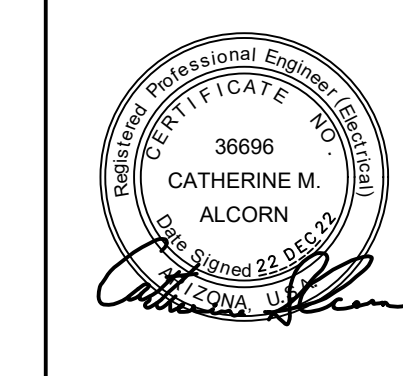
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**STAIRS G & Q  
LIGHTING PLANS**

Sheet Reference Number:  
**E7.4**  
Sheet 77 of 130

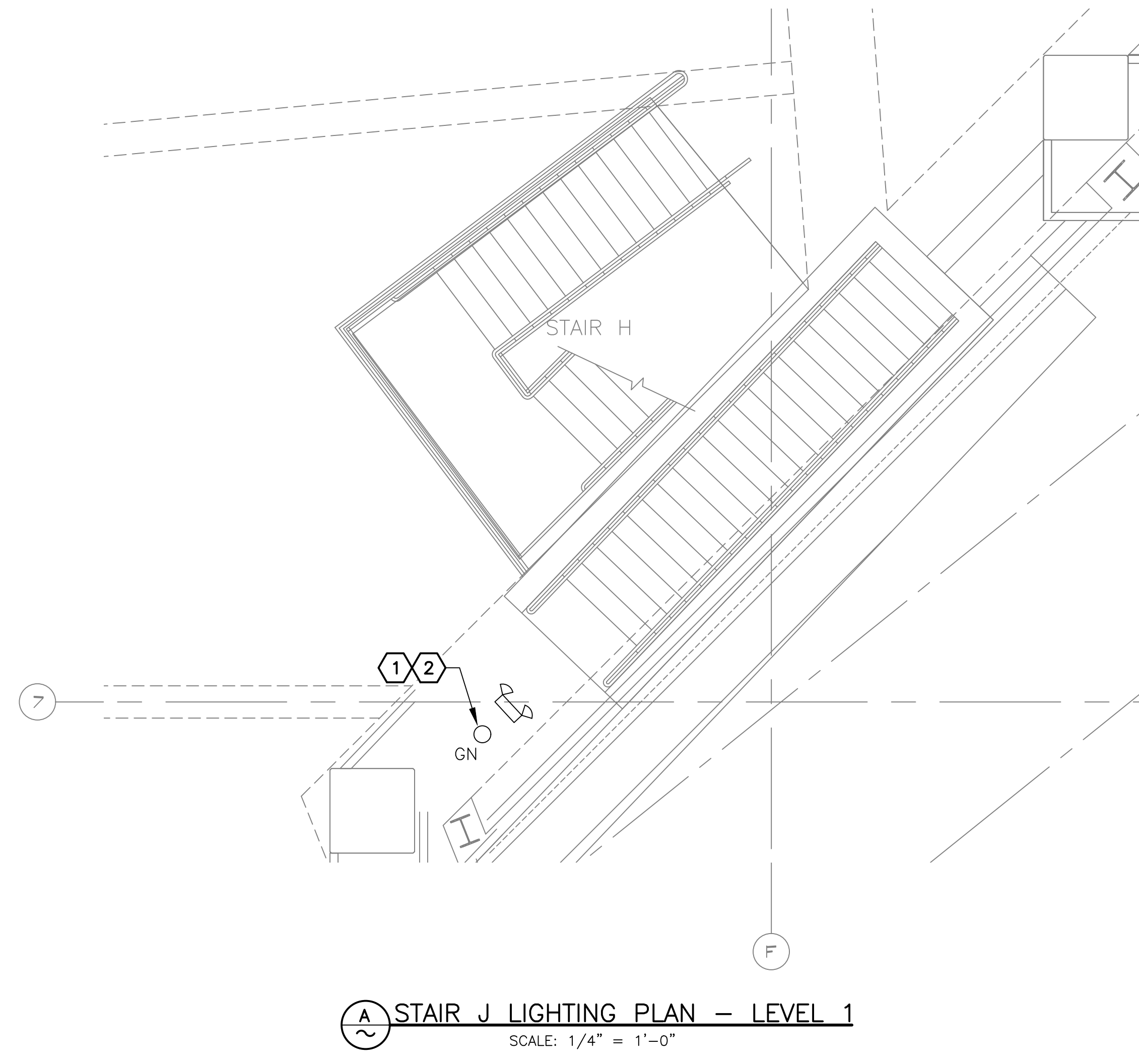
**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
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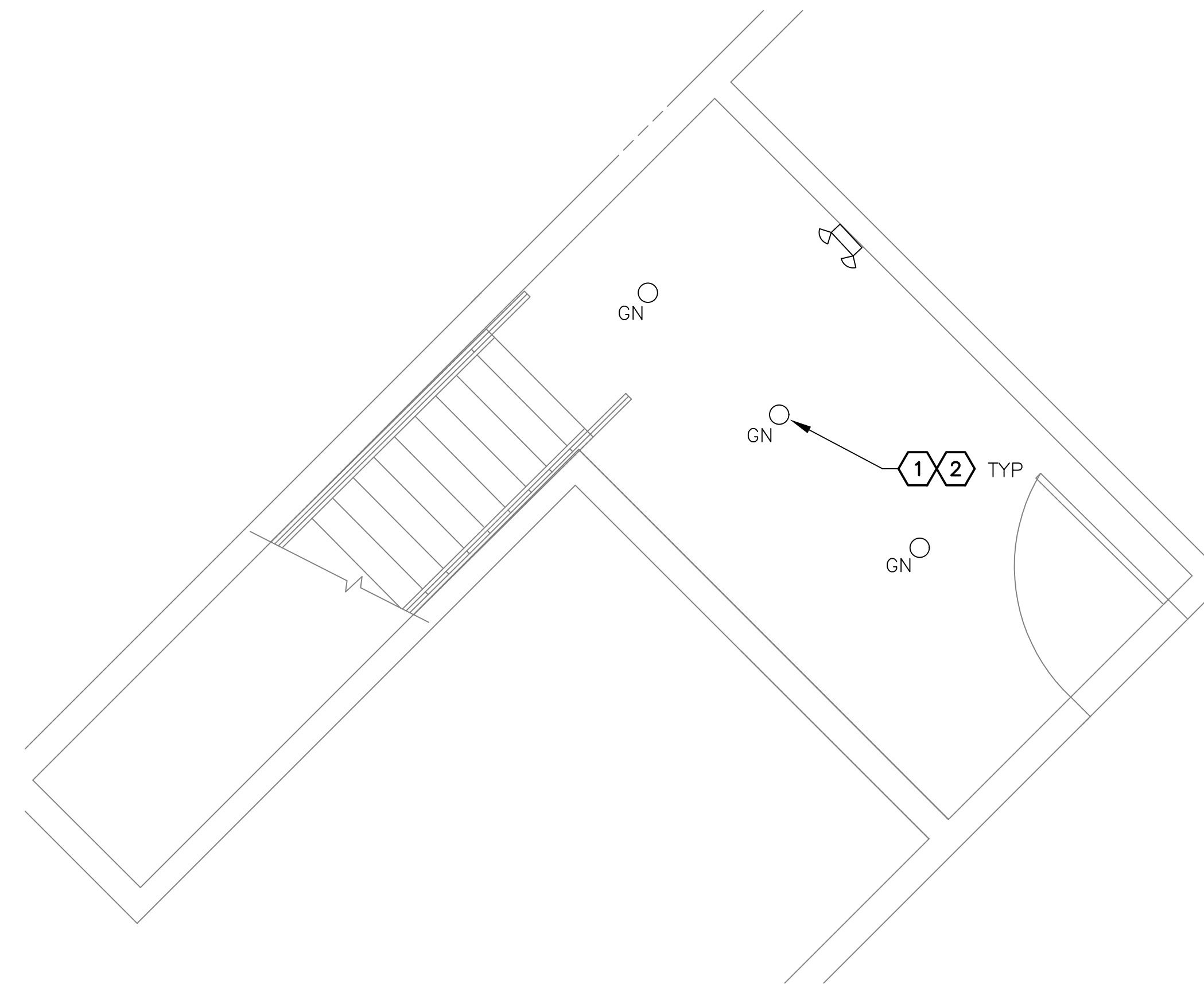
KIVA NO:  
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CONTRACT NO:  
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**A** STAIR J LIGHTING PLAN -- LEVEL 1  
SCALE: 1/4" = 1'-0"



**B** STAIR J LIGHTING PLAN -- TUNNEL LEVEL  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

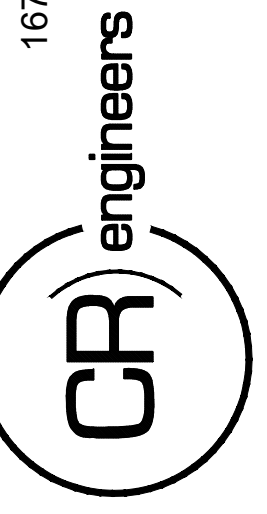
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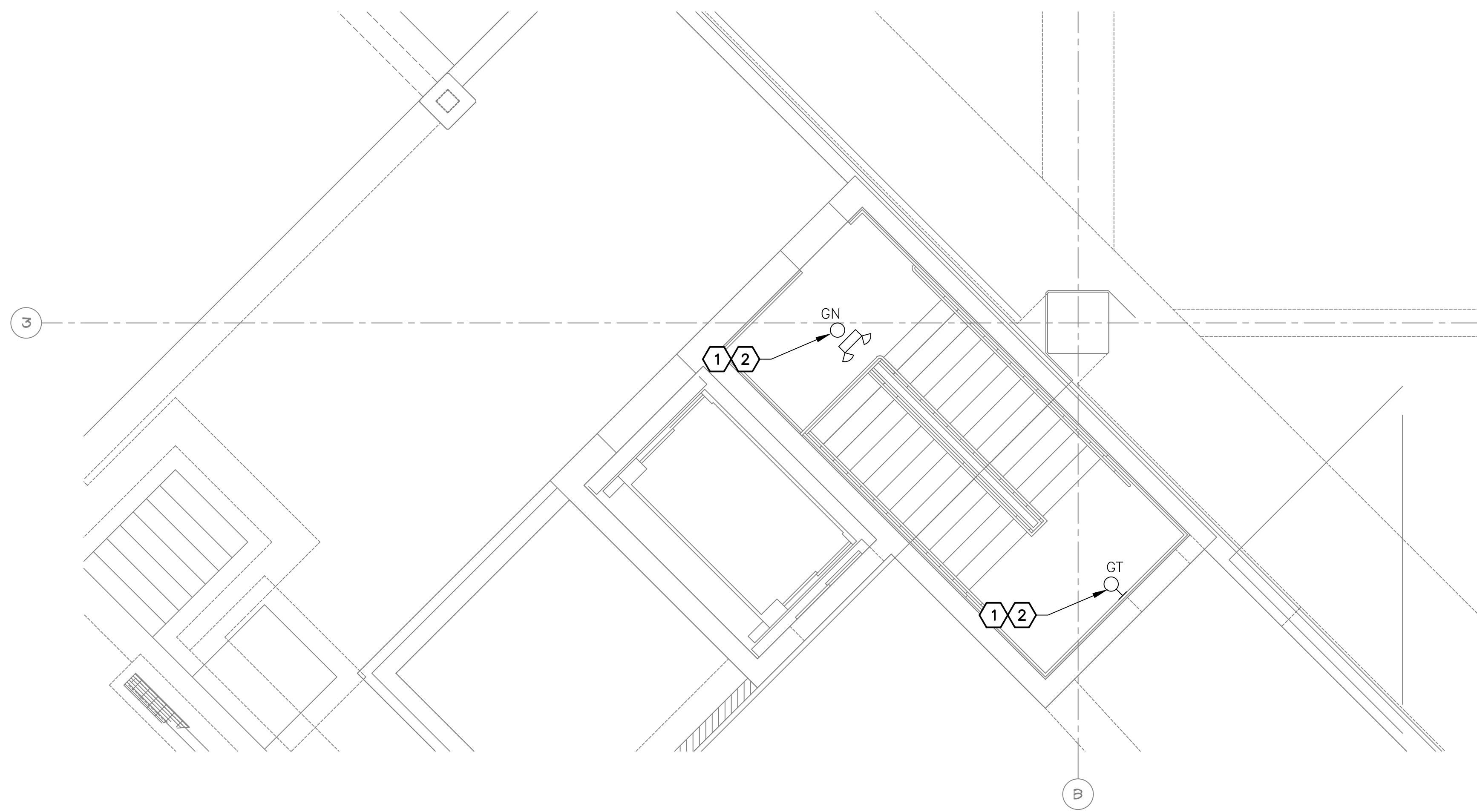
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV15000073-1

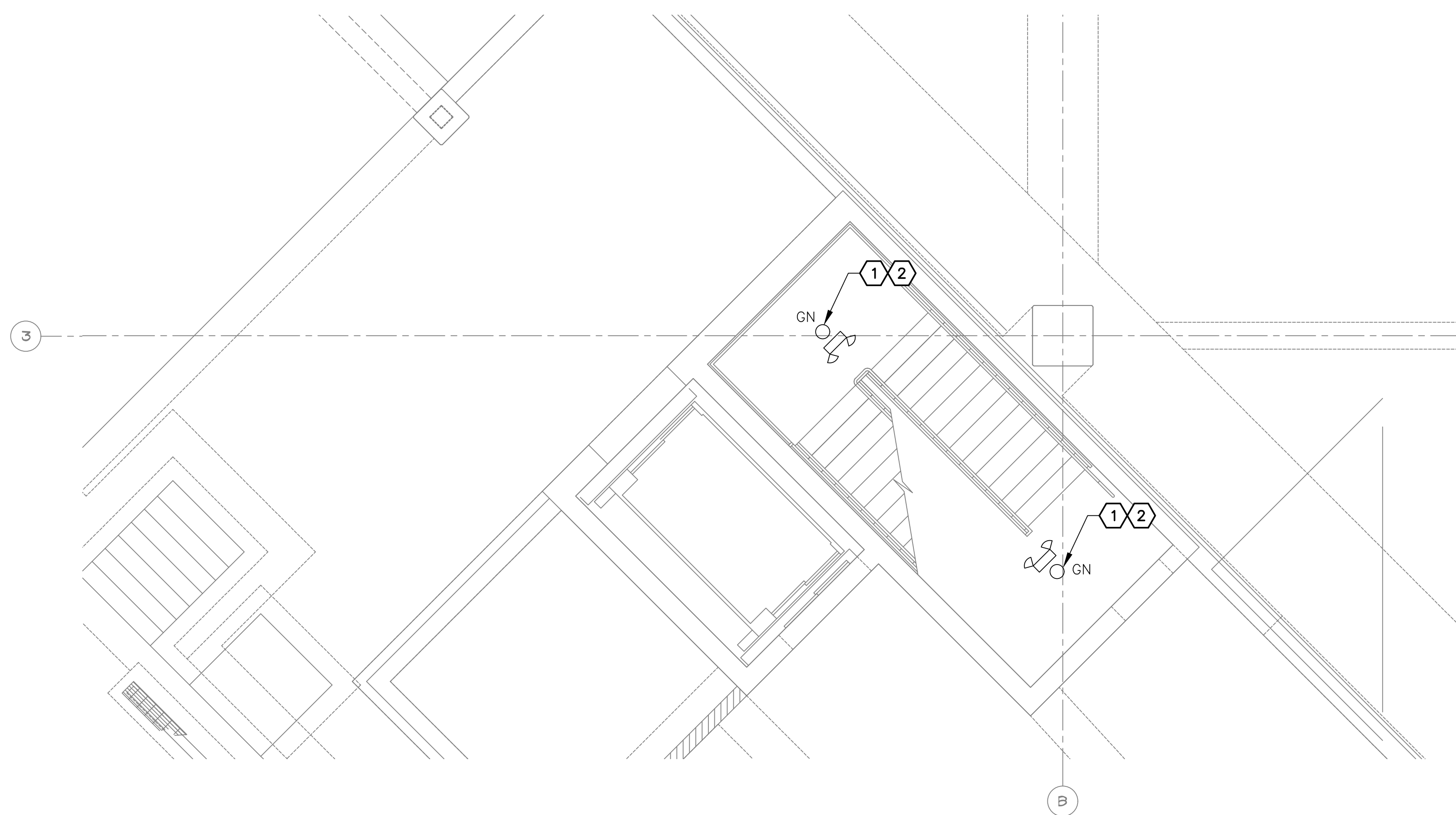
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Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**STAIR J  
LIGHTING PLANS**

Sheet Reference Number:  
**E7.5**



**A** STAIR L LIGHTING PLAN - LEVEL 1  
SCALE: 1/4" = 1'-0"



**B** STAIR L LIGHTING PLAN - TUNNEL LEVEL  
SCALE: 1/4" = 1'-0"

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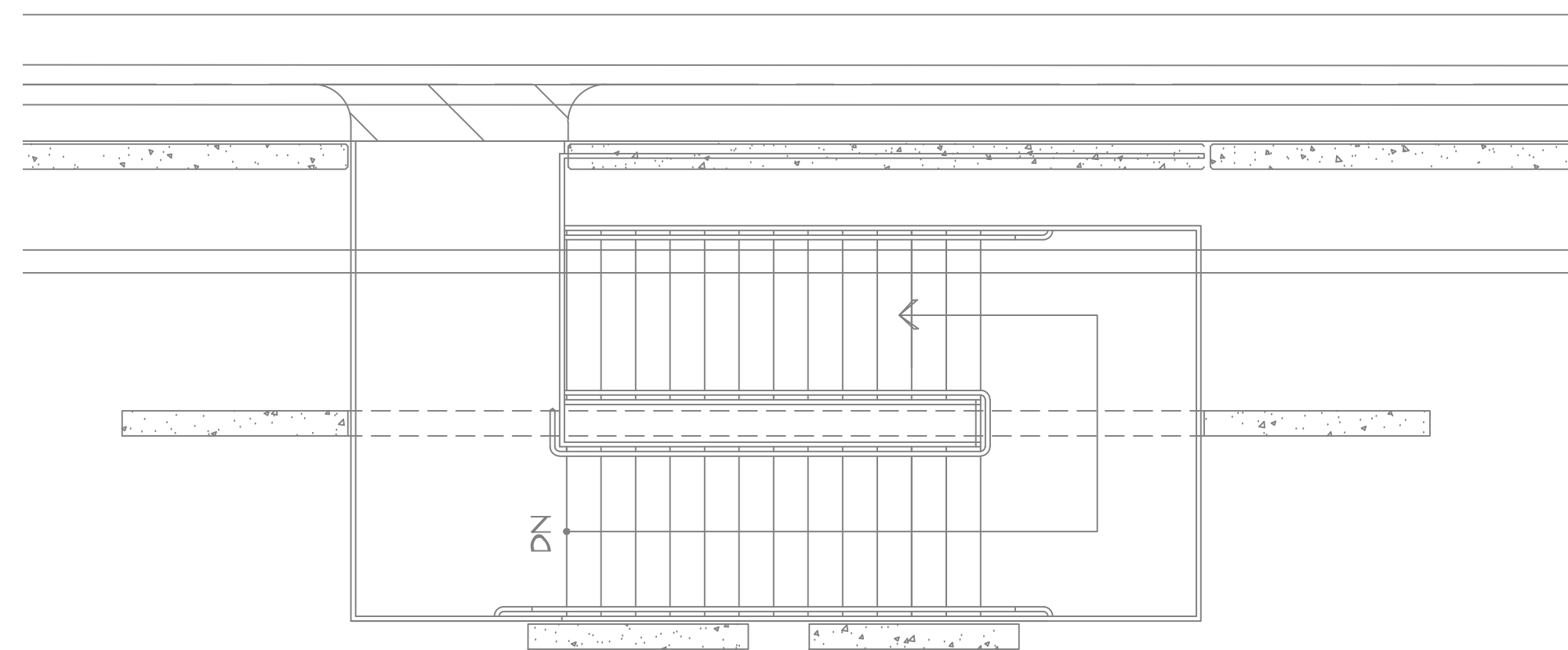
**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
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Dwg. scale: AS NOTED

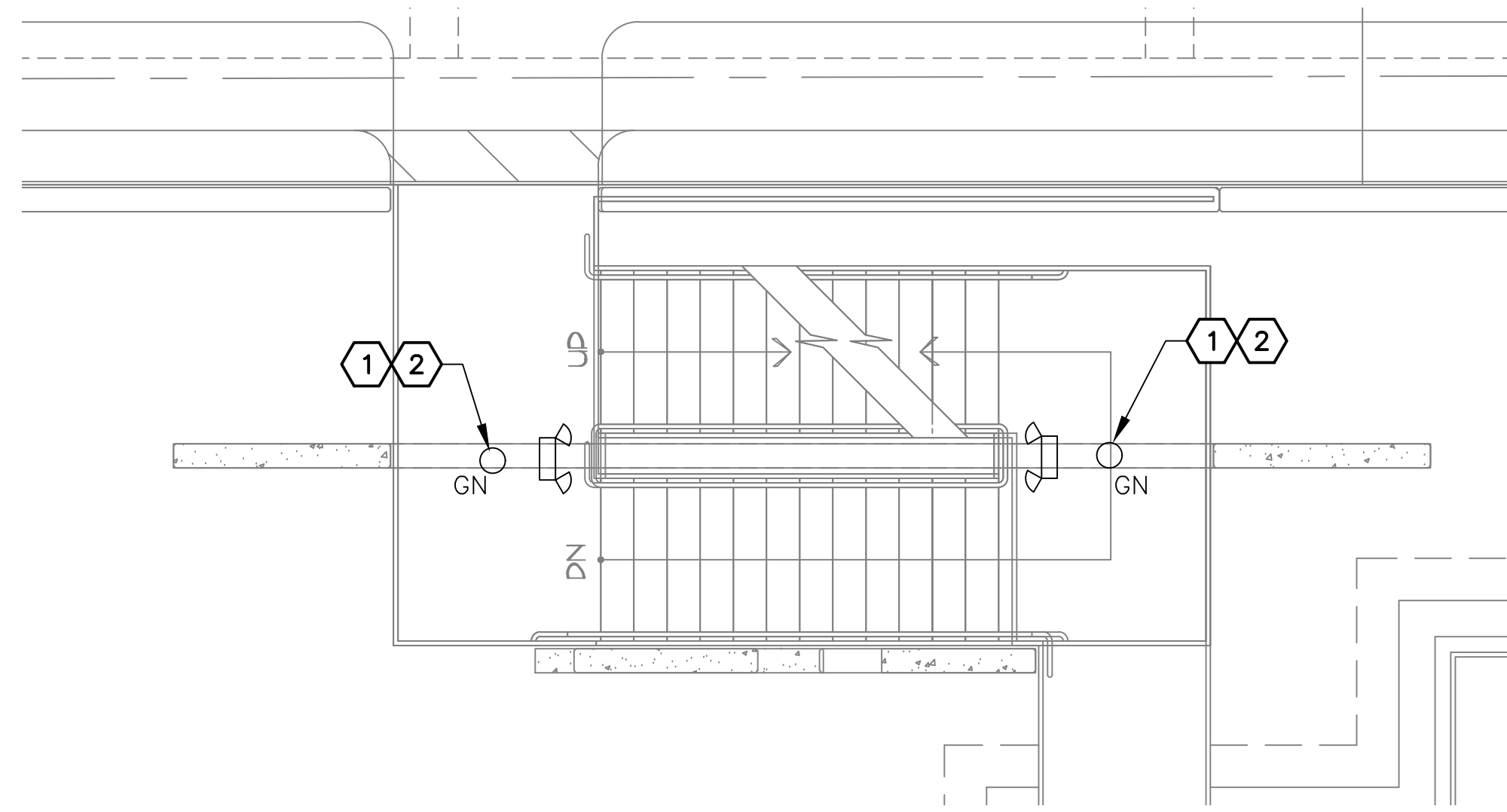
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**STAIR L  
LIGHTING PLANS**

Sheet Reference Number:  
**E7.6**  
Sheet 79 of 130

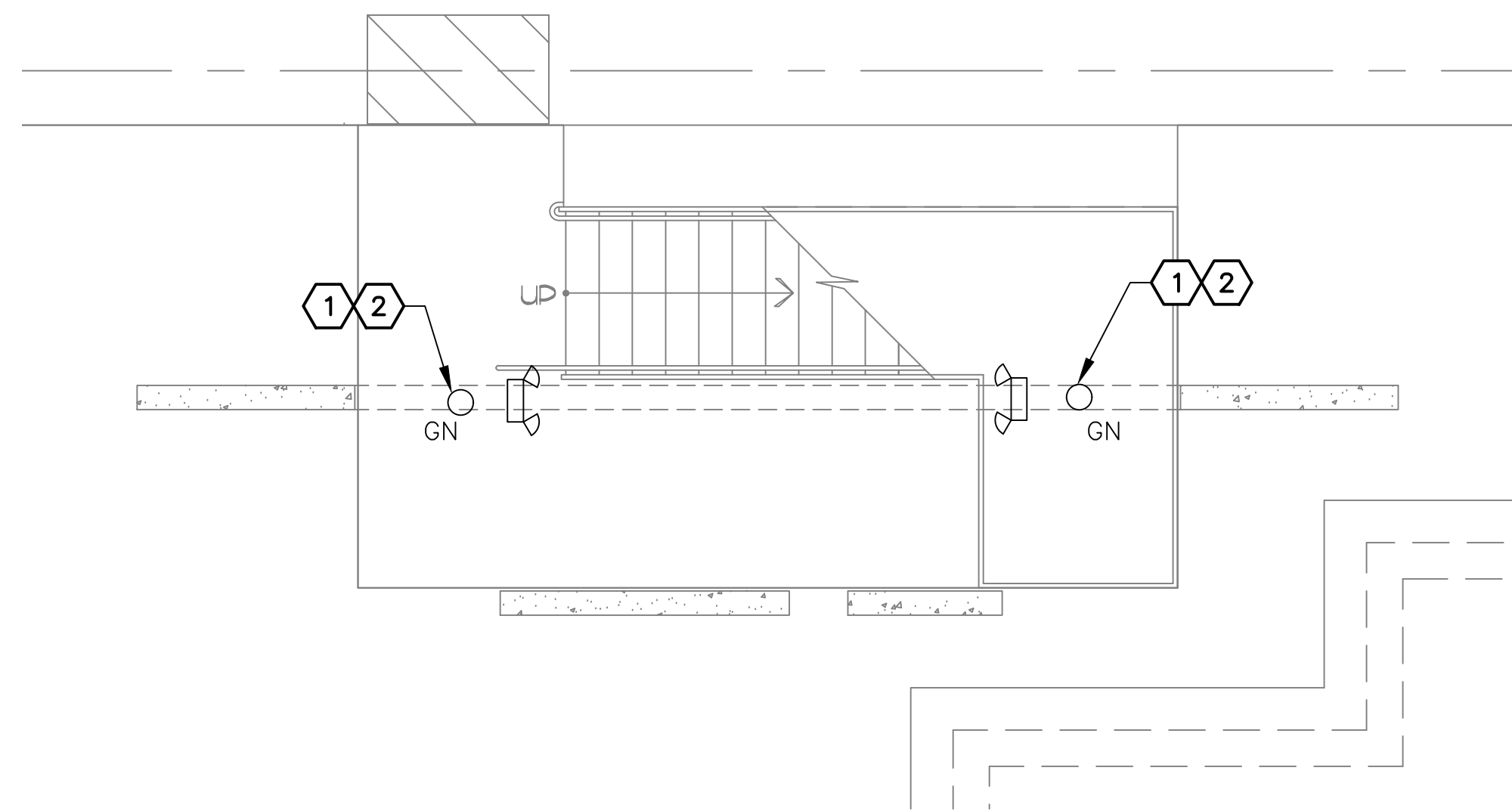




**(C) STAIR M LIGHTING PLAN - LEVEL 3**  
SCALE: 1/4" = 1'-0"



**(B) STAIR M LIGHTING PLAN - LEVEL 2**  
SCALE: 1/4" = 1'-0"



**(A) STAIR M LIGHTING PLAN - LEVEL 1**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

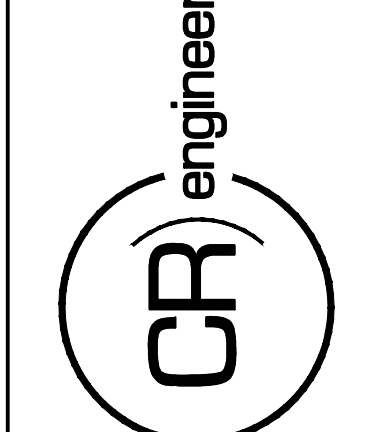
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NO.	REVISIONS / SUBMISSIONS	DATE

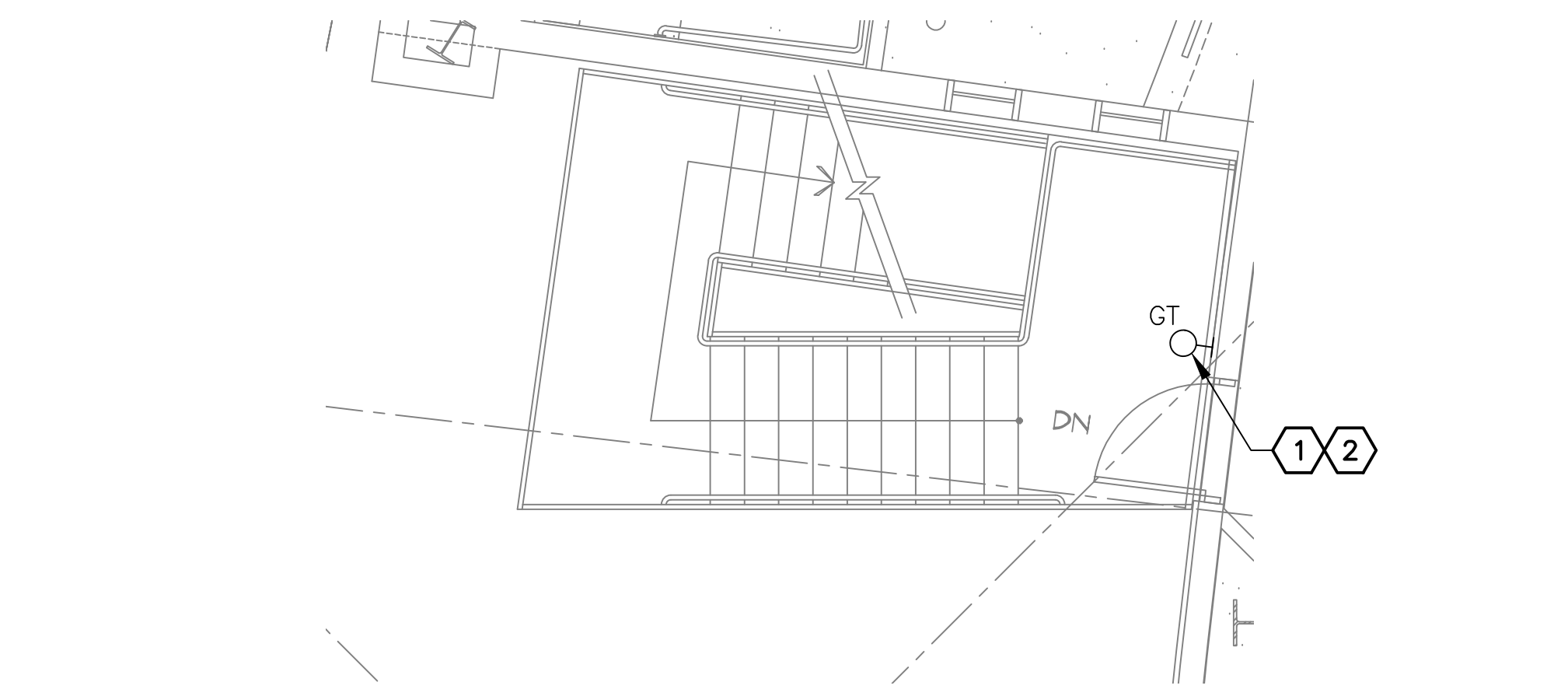
**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV15000073-1

Designed by: RD	Drawn by: JBW
Checked by: CA	Date: 12/22/2022
Dwg scale: NTS	

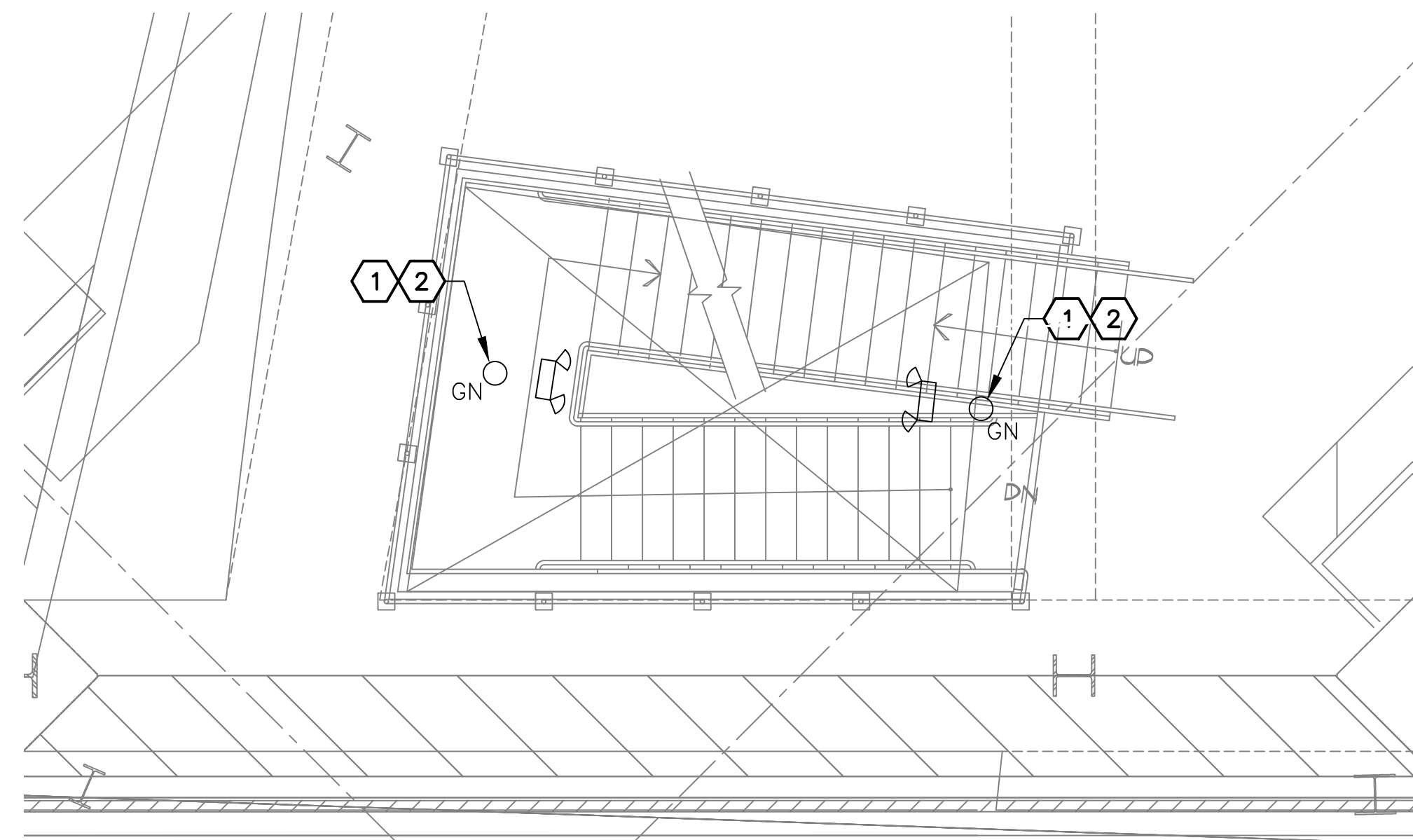
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**STAIR M LIGHTING PLANS**

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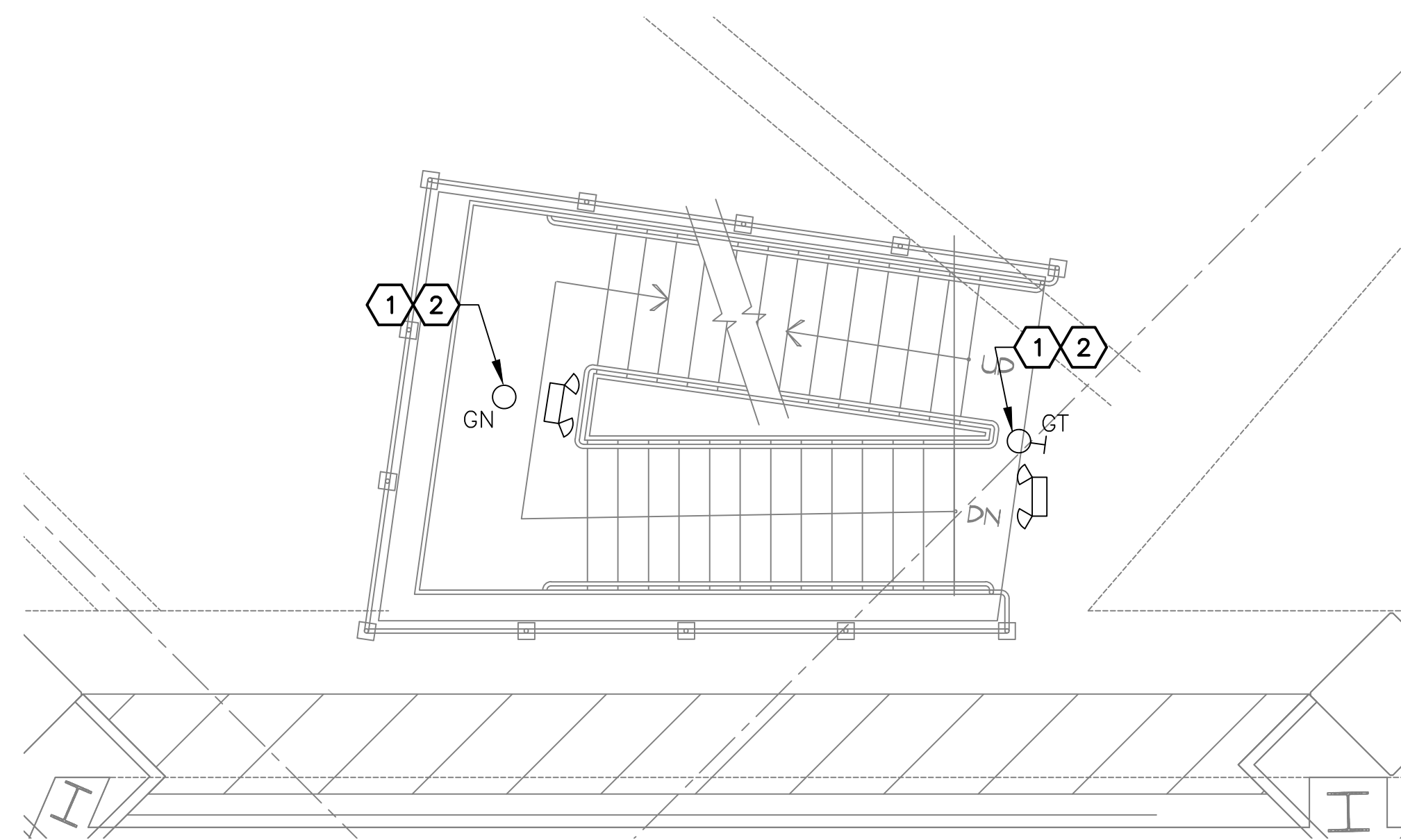




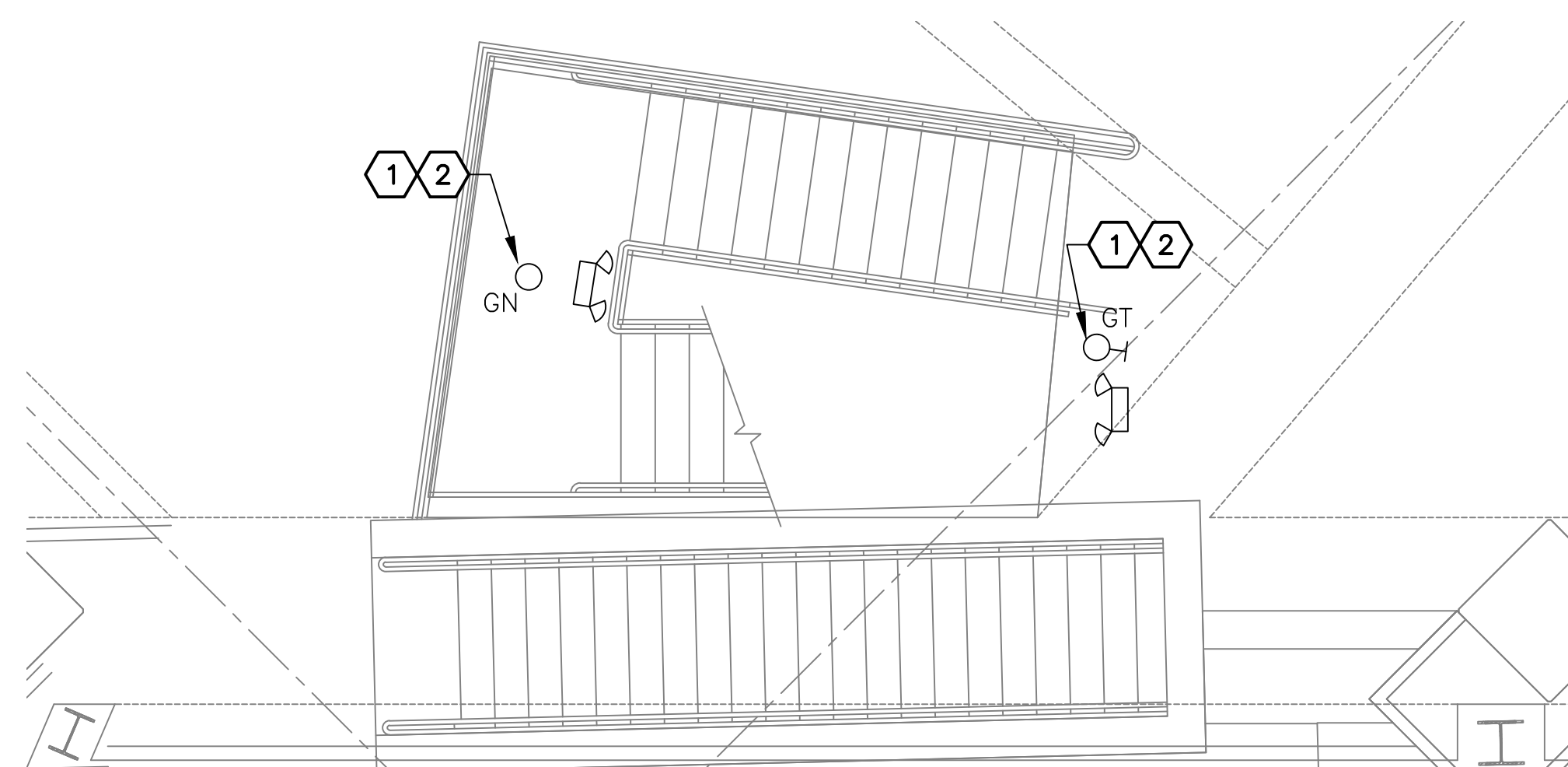
**D** STAIR H LIGHTING PLAN -- LEVEL CSB  
SCALE: 1/4" = 1'-0"



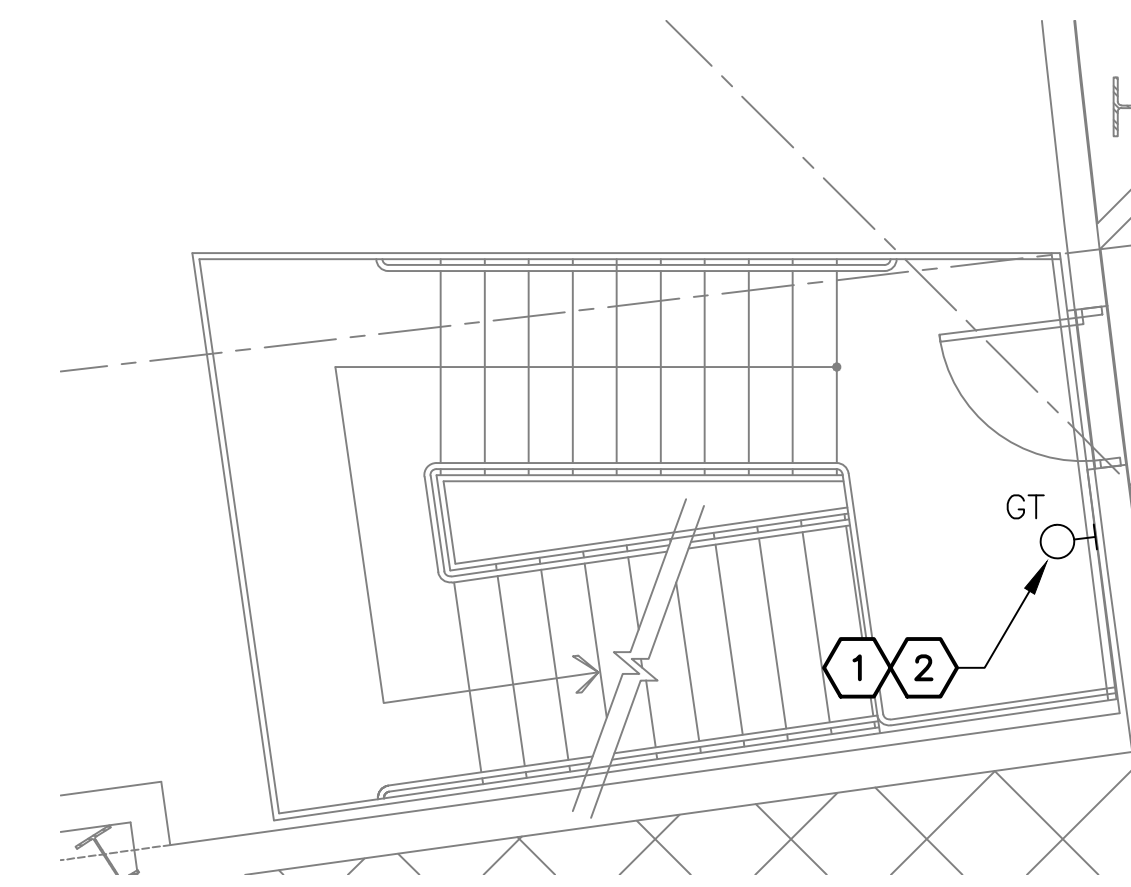
**C** STAIR H LIGHTING PLAN -- LEVEL 3  
SCALE: 1/4" = 1'-0"



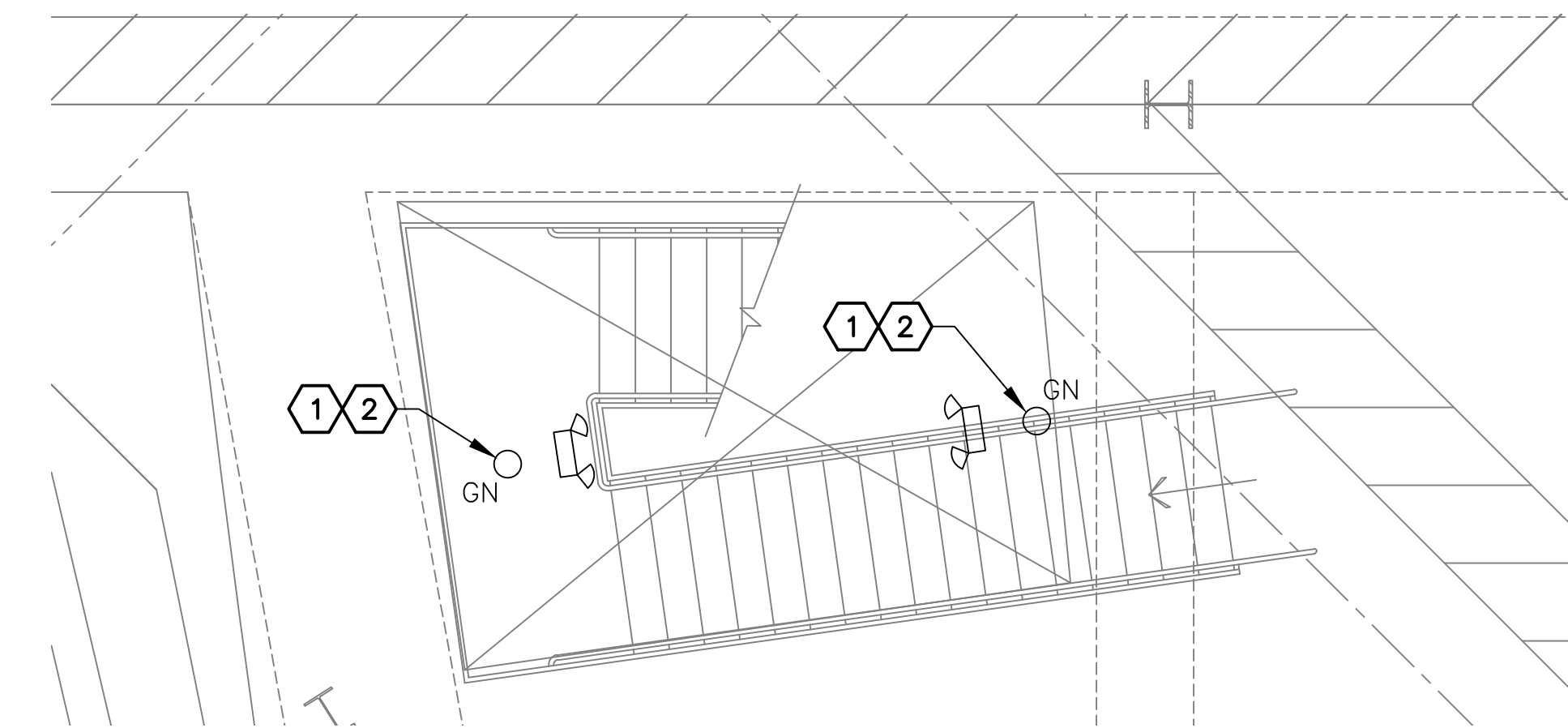
**B** STAIR H LIGHTING PLAN -- LEVEL 2  
SCALE: 1/4" = 1'-0"



**A** STAIR H LIGHTING PLAN -- LEVEL 1  
SCALE: 1/4" = 1'-0"



**F** STAIR S LIGHTING PLAN -- LEVEL CSB  
SCALE: 1/4" = 1'-0"



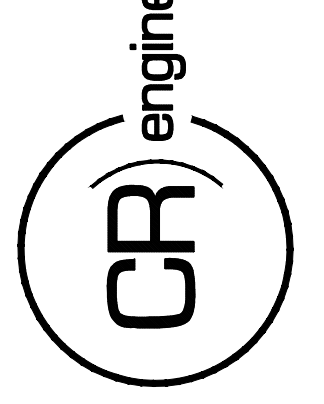
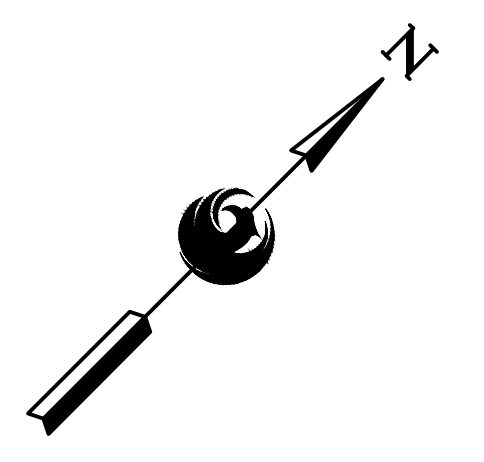
**E** STAIR S LIGHTING PLAN -- LEVEL 3  
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KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038

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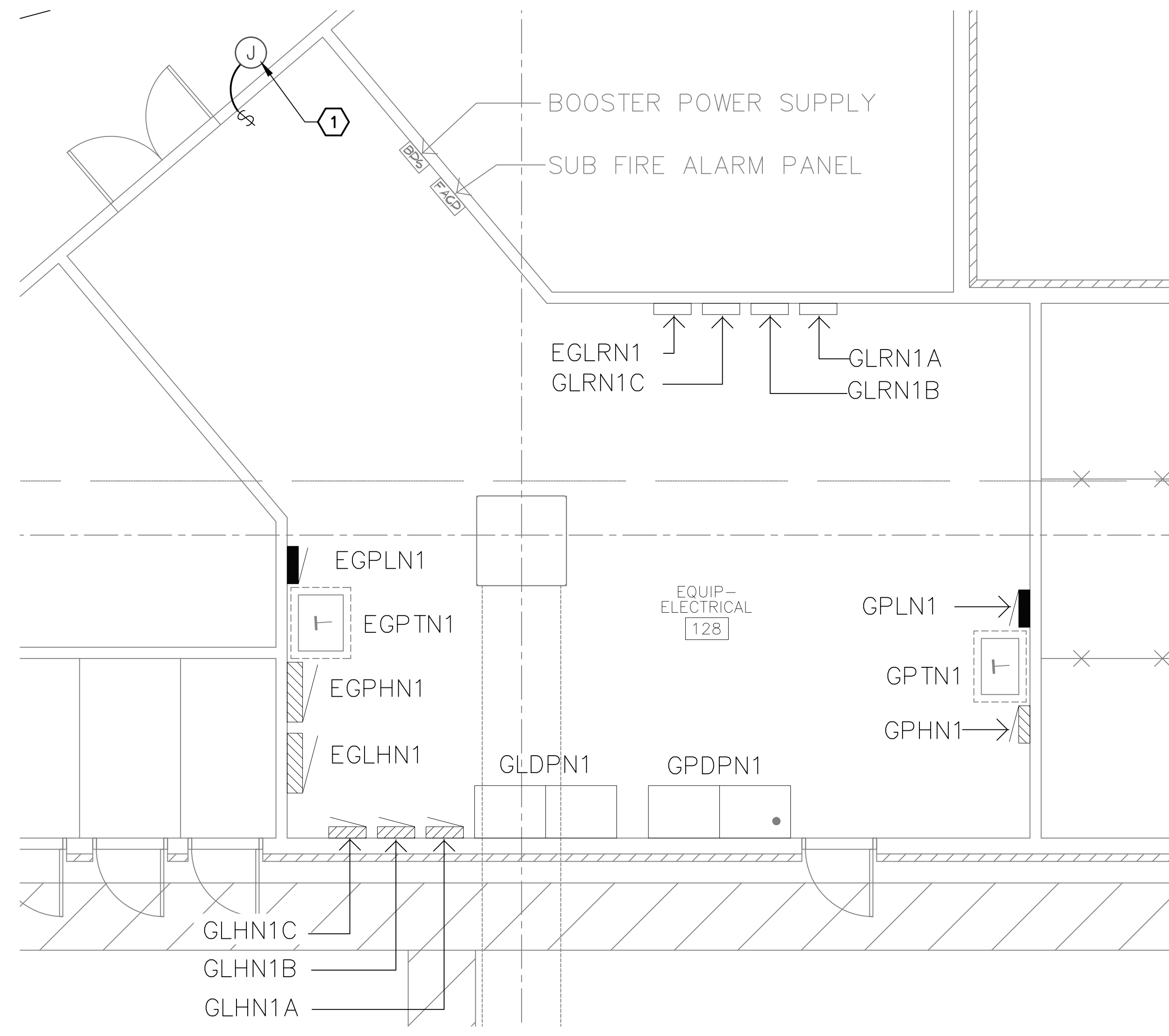
**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
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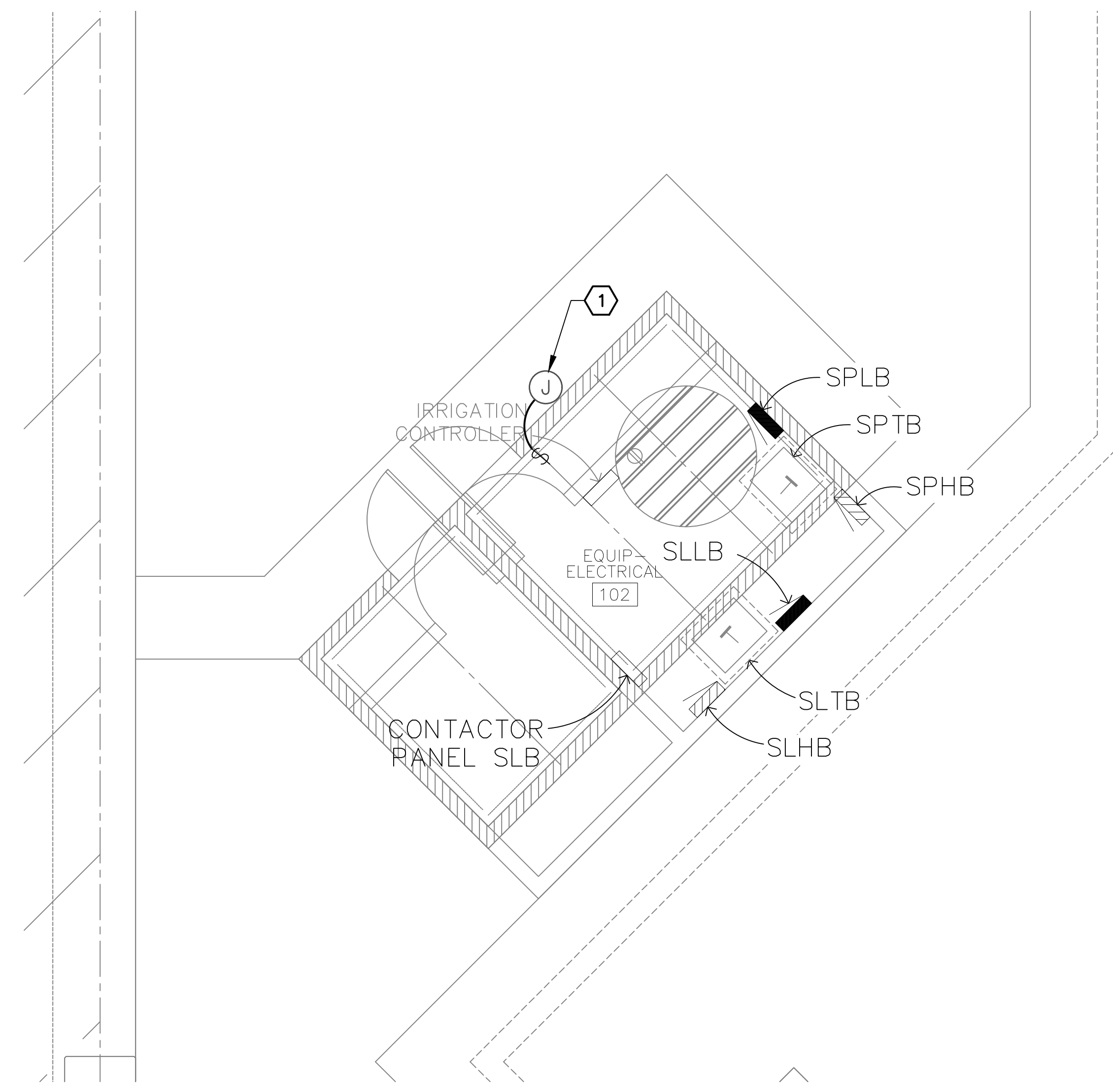
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**STAIRS H & S  
LIGHTING PLANS**

Sheet Reference Number:  
**E7.8**

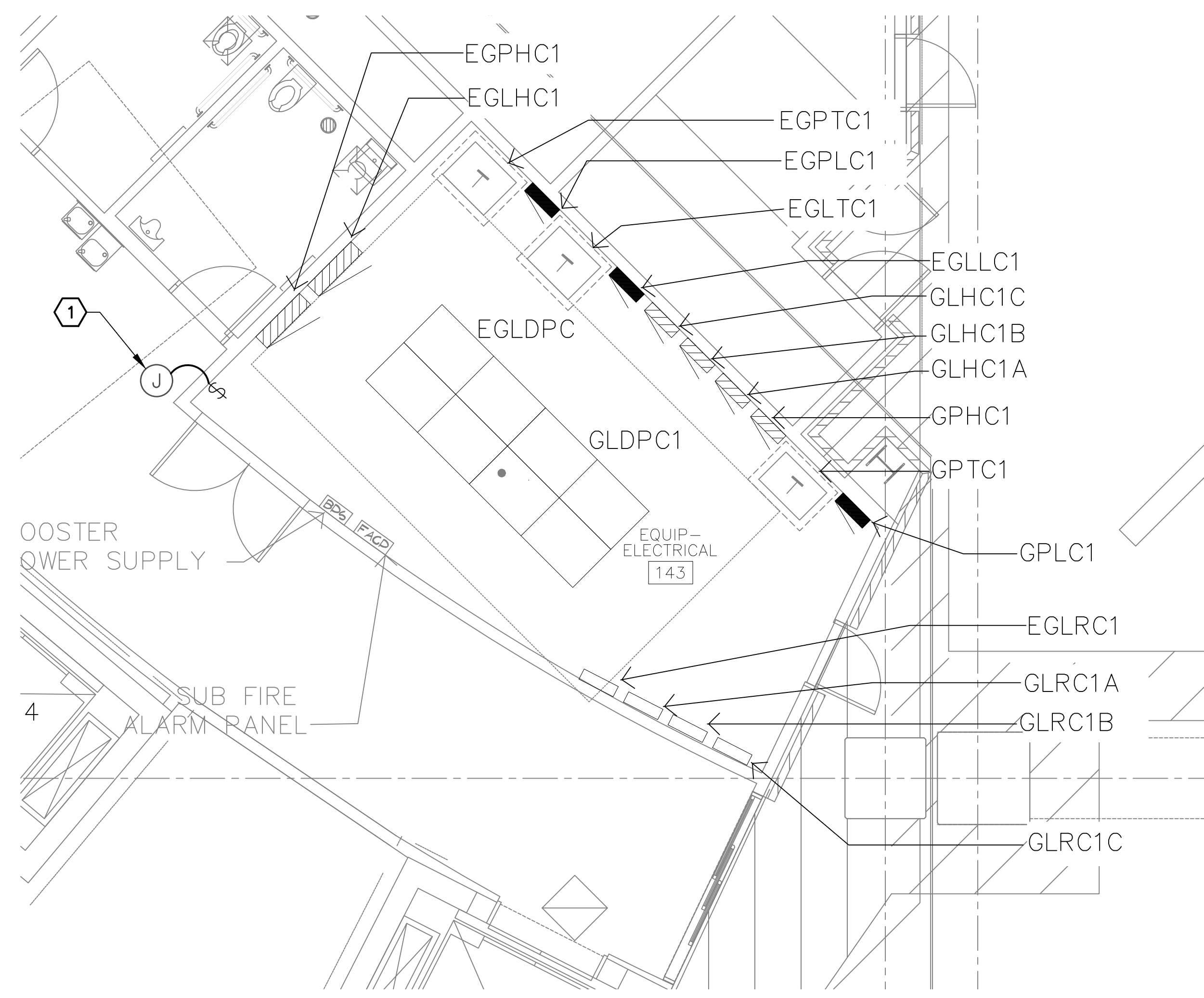




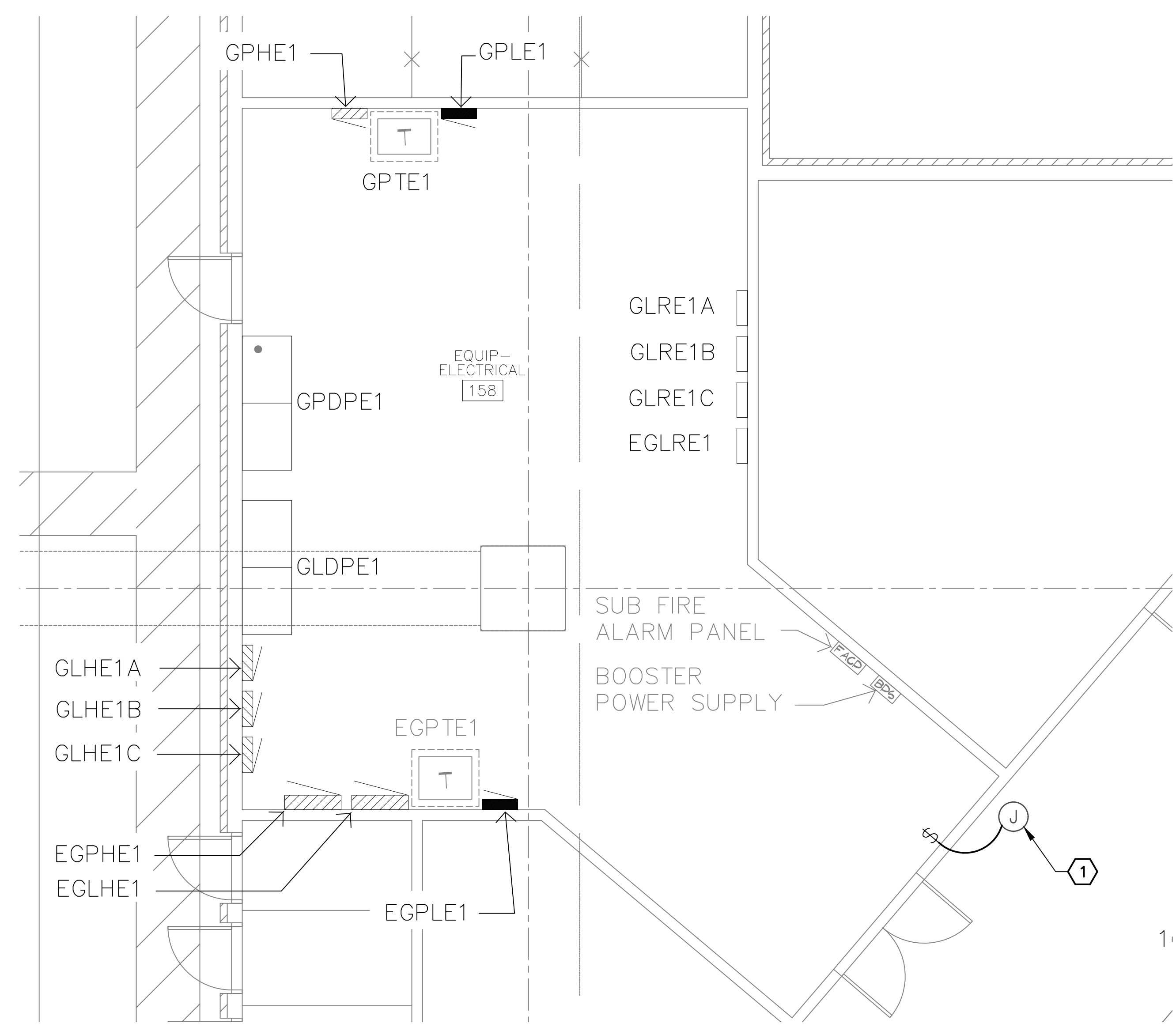
**(A) ELECTRICAL ROOM PLAN -- LEVEL 1 -- NORTH CORE**  
SCALE: 1/4" = 1'-0"



**(B) ELECTRICAL ROOM PLAN -- LEVEL 1 -- FRONT PLAZA**  
SCALE: 1/4" = 1'-0"



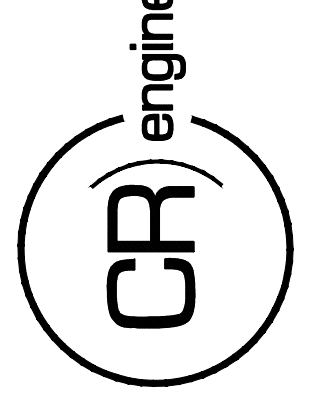
**(C) ELECTRICAL ROOM PLAN -- LEVEL 1 -- CENTER CORE**  
SCALE: 1/4" = 1'-0"



**(D) ELECTRICAL ROOM PLAN -- LEVEL 1 -- EAST CORE**  
SCALE: 1/4" = 1'-0"

**KEYED NOTES**  
 ① PROVIDE AND MOUNT HUBBELL WISCAPE INTERNAL MODULE, MODEL NO. "WIR-RMI-10-N4" ON WALL 9" AFF NORTH OF ELECTRICAL ROOM. PROVIDE CONDUIT AND CONDUCTORS FROM NEAREST AVAILABLE PANEL AS REQUIRED. ROUTE CONDUIT AND LOW VOLTAGE CONDUCTORS FROM INTERNAL MODULE TO HUBBELL OVERRIDE SWITCH, MODEL NO. "LVSKSNPH". SWITCH SHALL BE PROGRAMMED TO OVERRIDE LEVELS LIGHTING TO FULL ON.

16719 East Palisades Blvd., Suite 202  
 Fountain Hills, AZ 85268  
 Phone: (480) 816-5541  
 Fax: (480) 816-5540  
 www.creng.com



KIVA NO:  
 SDEV NO:  
 CONTRACT NO:  
 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 23 SECTION 2-238 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

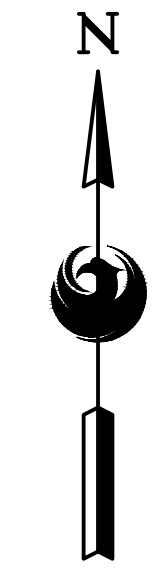
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR LED LIGHT RETROFIT  
 AV15000073-1

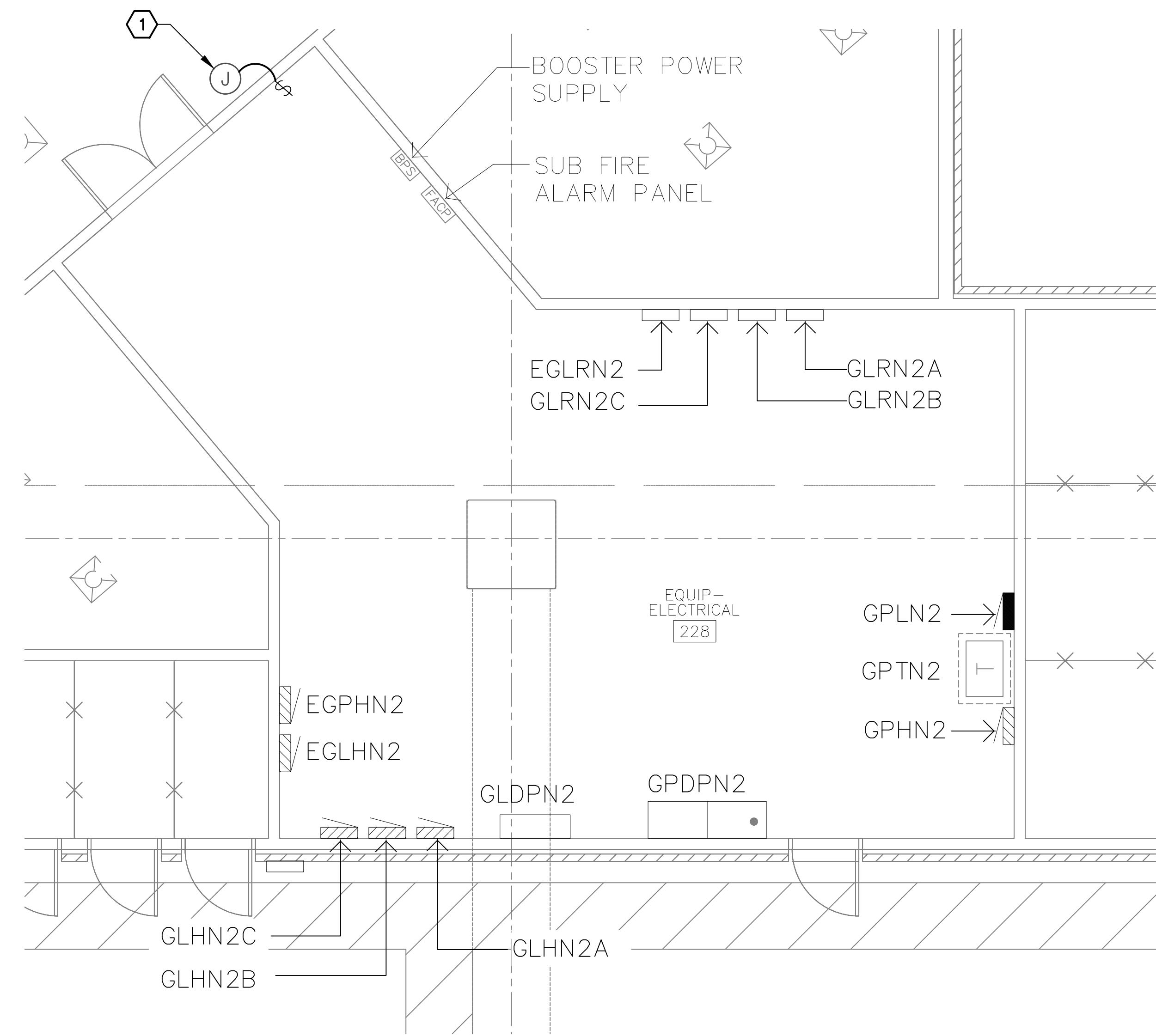
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 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**ELECTRICAL ROOM PLANS**  
 LEVEL 1

Sheet Reference Number:  
**E8.1**  
 Sheet 83 of 130



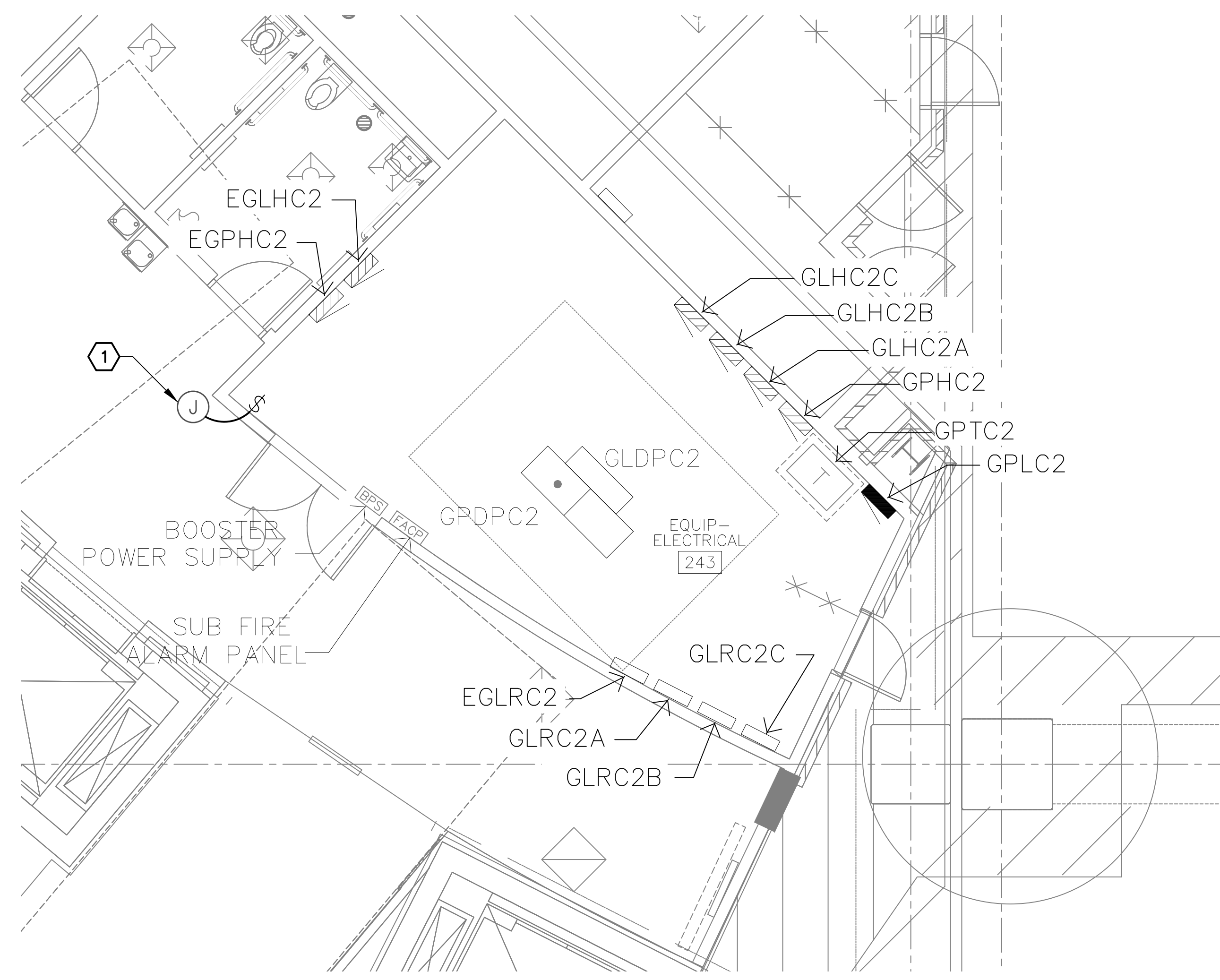
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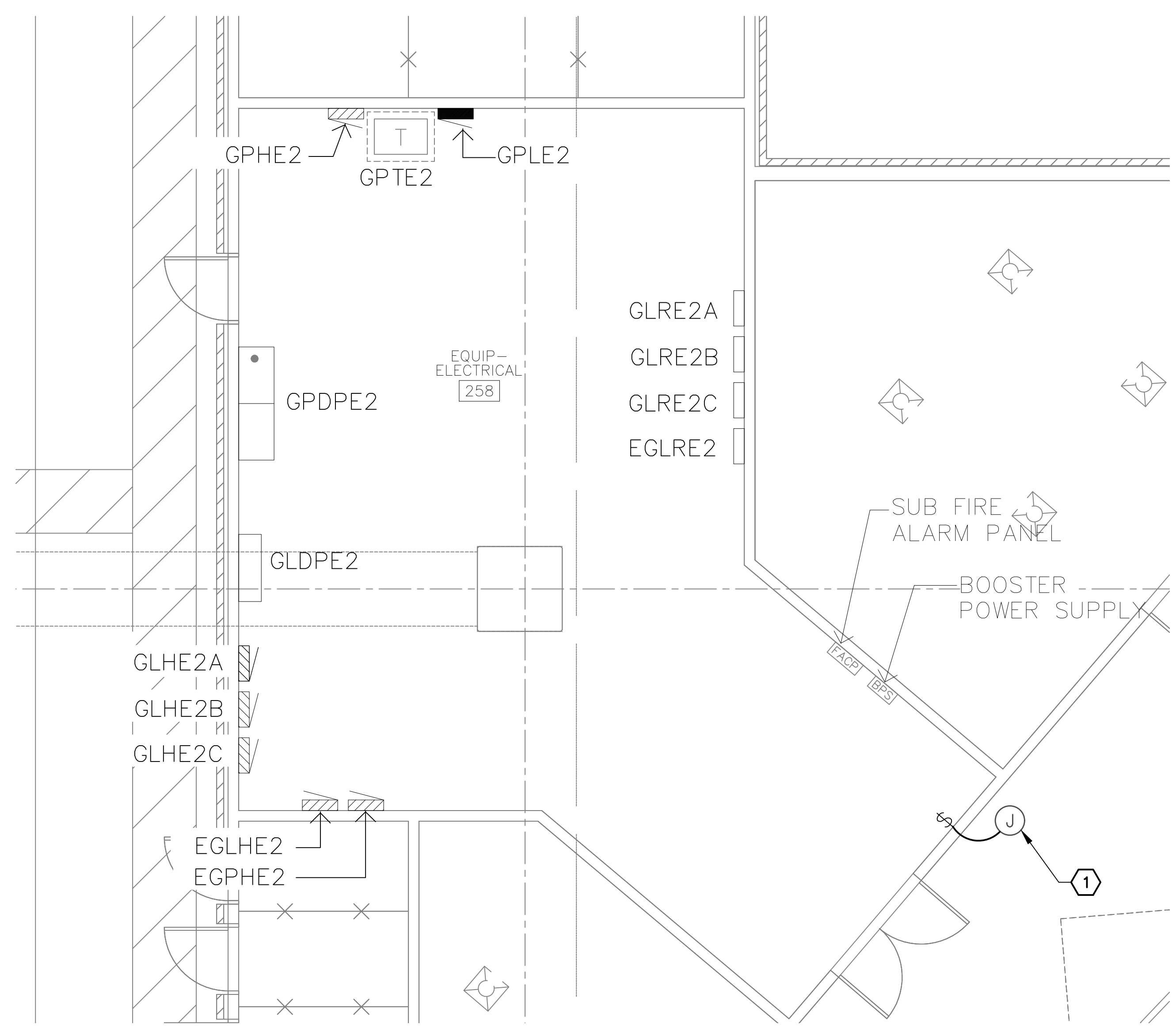
**(A) ELECTRICAL ROOM PLAN - LEVEL 2 - NORTH CORE**  
SCALE: 1/4" = 1'-0"

**KEYED NOTES**

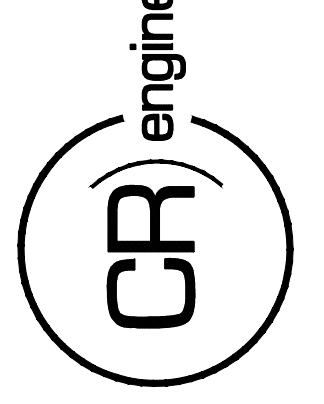
- 1 PROVIDE AND MOUNT HUBBELL WISCAPE INTERNAL MODULE, MODEL NO. "WIR-RMI-10-N4" ON WALL 9" AFF NORTH OF ELECTRICAL ROOM. PROVIDE CONDUIT AND CONDUCTORS FROM NEAREST AVAILABLE PANEL AS REQUIRED. ROUTE CONDUIT AND LOW VOLTAGE CONDUCTORS FROM INTERNAL MODULE TO HUBBELL OVERRIDE SWITCH, MODEL NO. "LVSM3RPHW". SWITCH SHALL BE PROGRAMMED TO OVERRIDE LEVELS LIGHTING TO FULL ON.



**(B) ELECTRICAL ROOM PLAN - LEVEL 2 - CENTER CORE**  
SCALE: 1/4" = 1'-0"



**(C) ELECTRICAL ROOM PLAN - LEVEL 2 - EAST CORE**  
SCALE: 1/4" = 1'-0"



KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

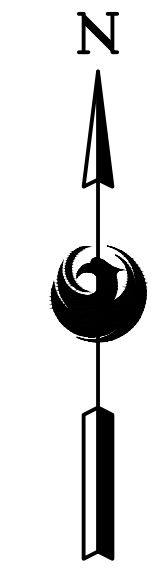
PER CITY OF PHOENIX CITY CODE CHAPTER 23 SECTION 2-238 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

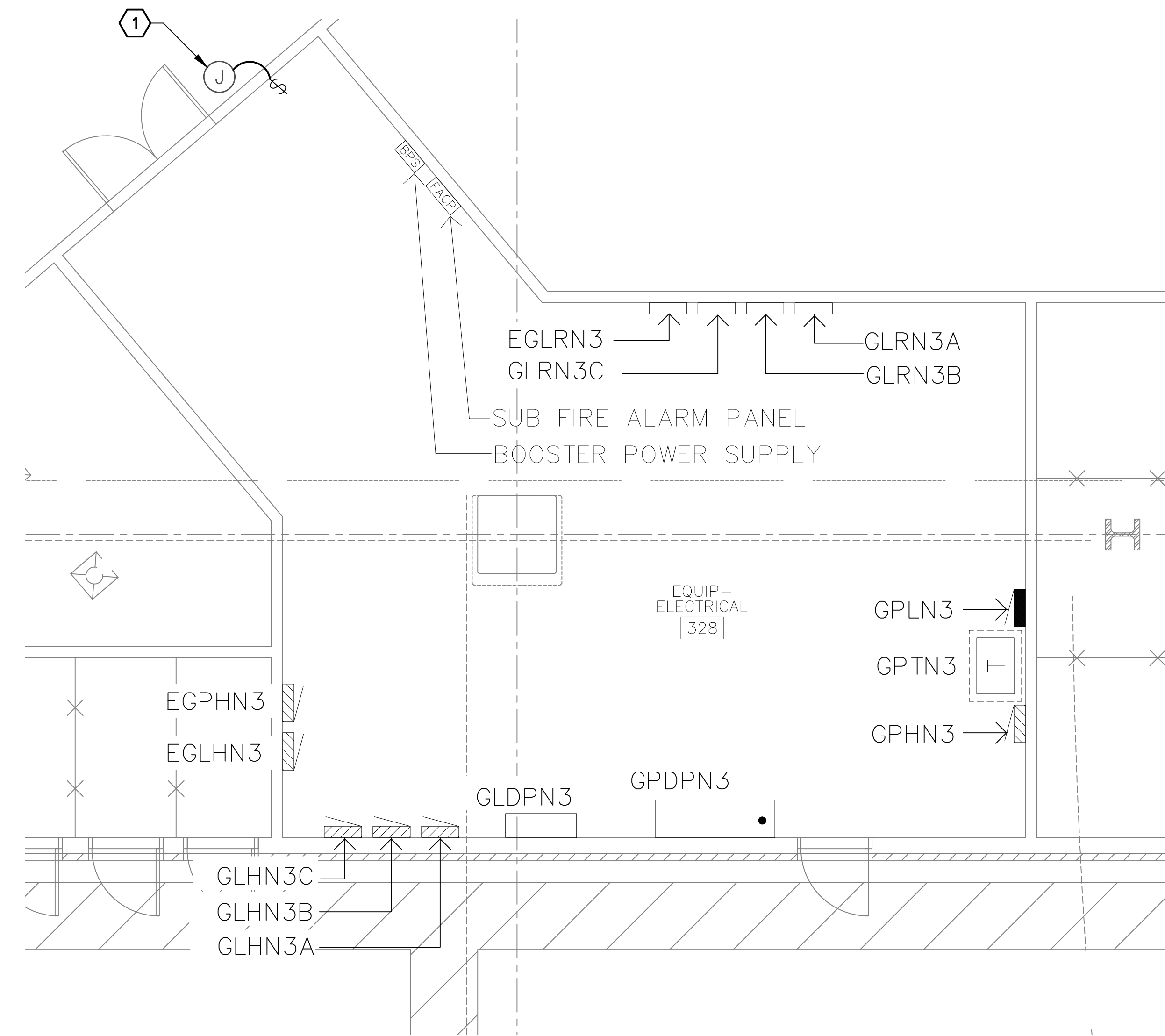
**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

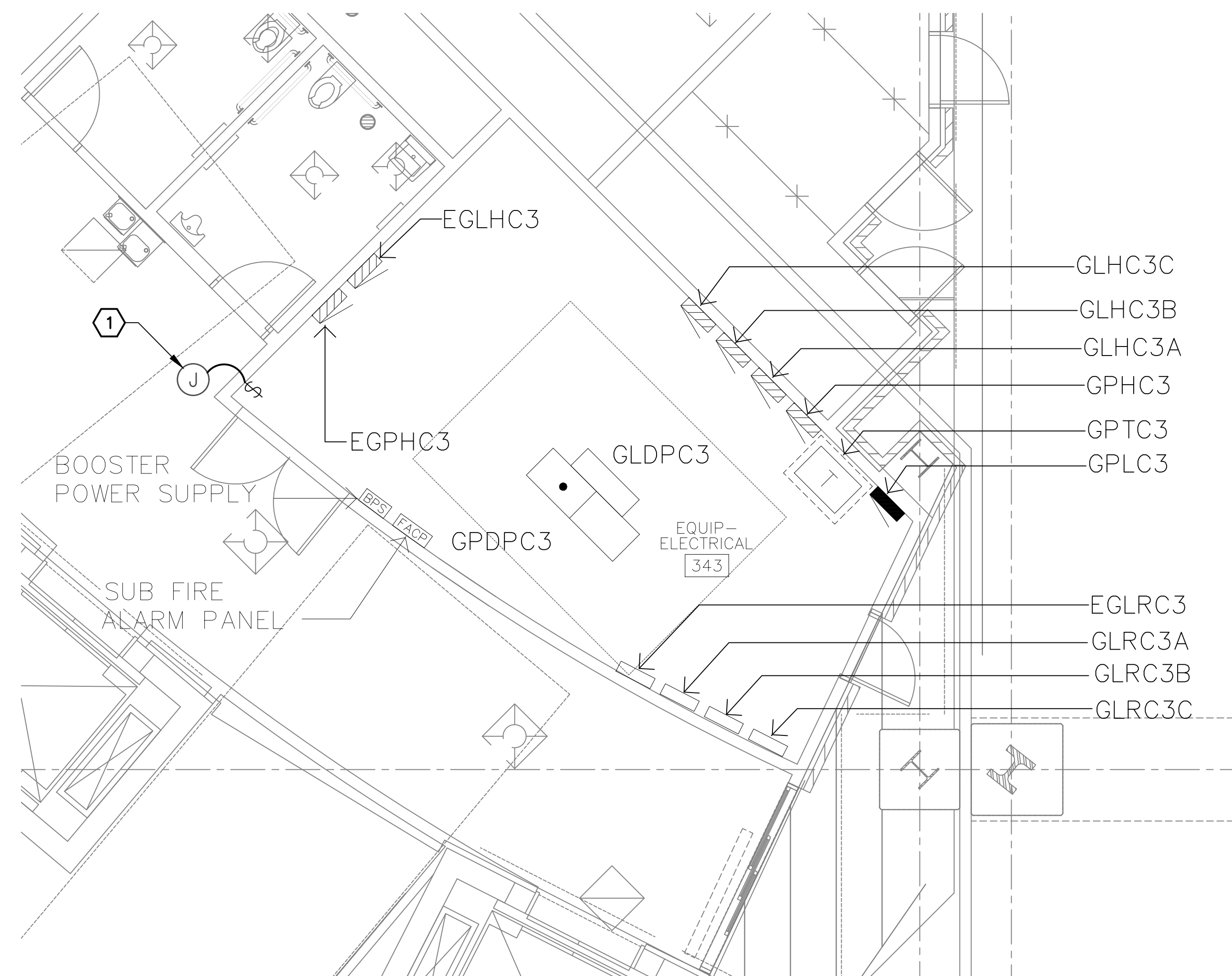
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**ELECTRICAL ROOM PLANS**  
LEVEL 2



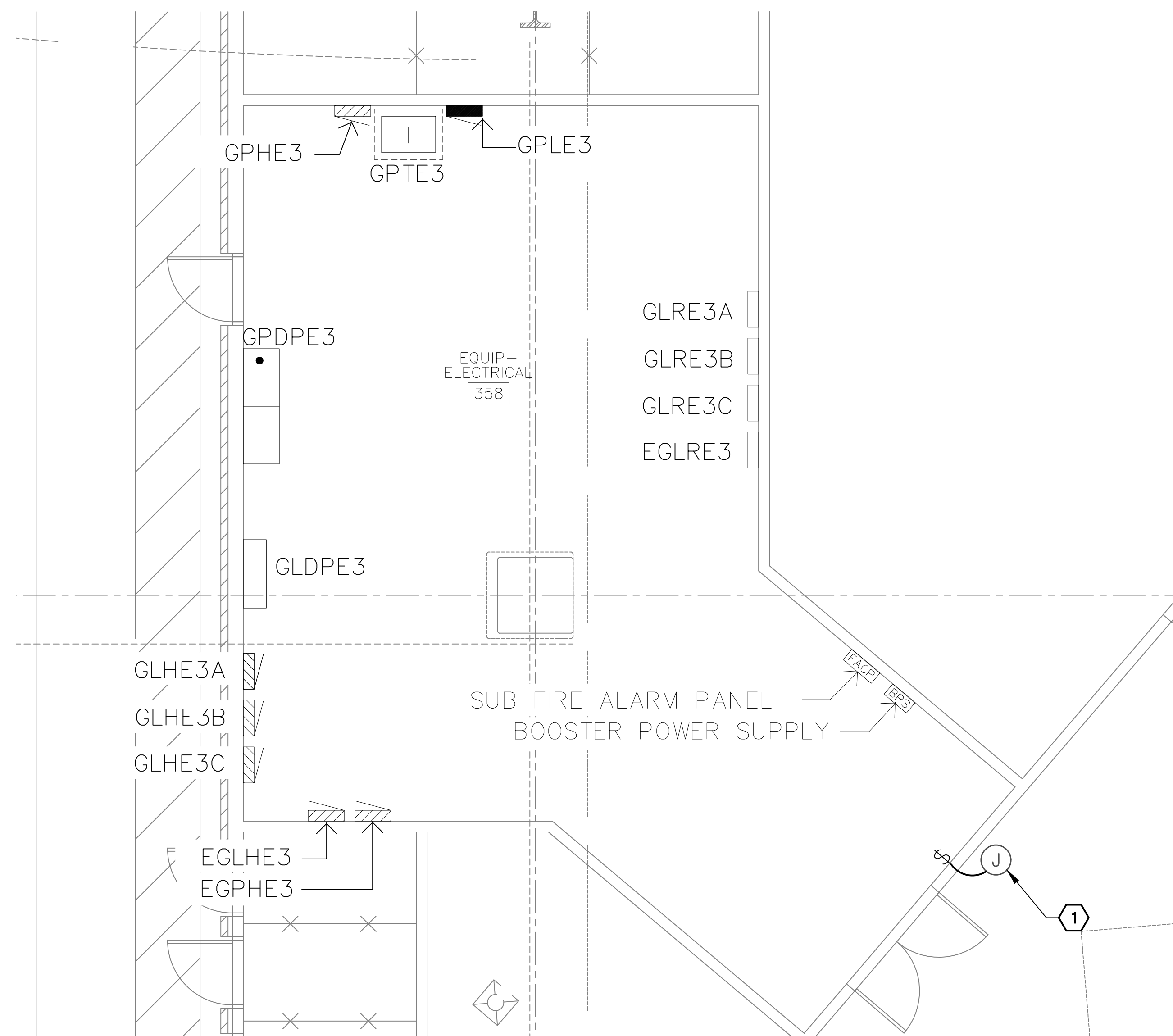
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**(A) ELECTRICAL ROOM PLAN - LEVEL 3 - NORTH CORE**  
SCALE: 1/4" = 1'-0"



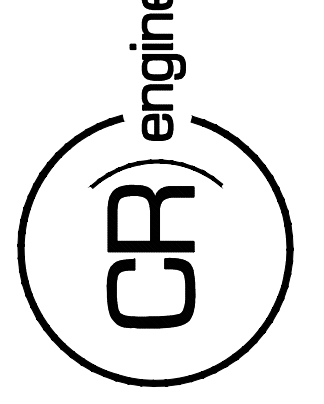
**(B) ELECTRICAL ROOM PLAN - LEVEL 3 - CENTER CORE**  
SCALE: 1/4" = 1'-0"



**(C) ELECTRICAL ROOM PLAN - LEVEL 3 - EAST CORE**  
SCALE: 1/4" = 1'-0"

**KEYED NOTES**

- 1 PROVIDE AND MOUNT HUBBELL WISCAPE INTERNAL MODULE, MODEL NO. "WIR-RM-10-N4" ON WALL 9" AFF NORTH OF ELECTRICAL ROOM. PROVIDE CONDUIT AND CONDUCTORS FROM NEAREST AVAILABLE PANEL AS REQUIRED. ROUTE CONDUIT AND LOW VOLTAGE CONDUCTORS FROM INTERNAL MODULE TO HUBBELL OVERRIDE SWITCH, MODEL NO. "LVSM3NFWH". SWITCH SHALL BE PROGRAMMED TO OVERRIDE LEVELS LIGHTING TO FULL ON.



KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038

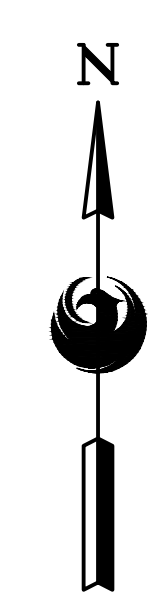
PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

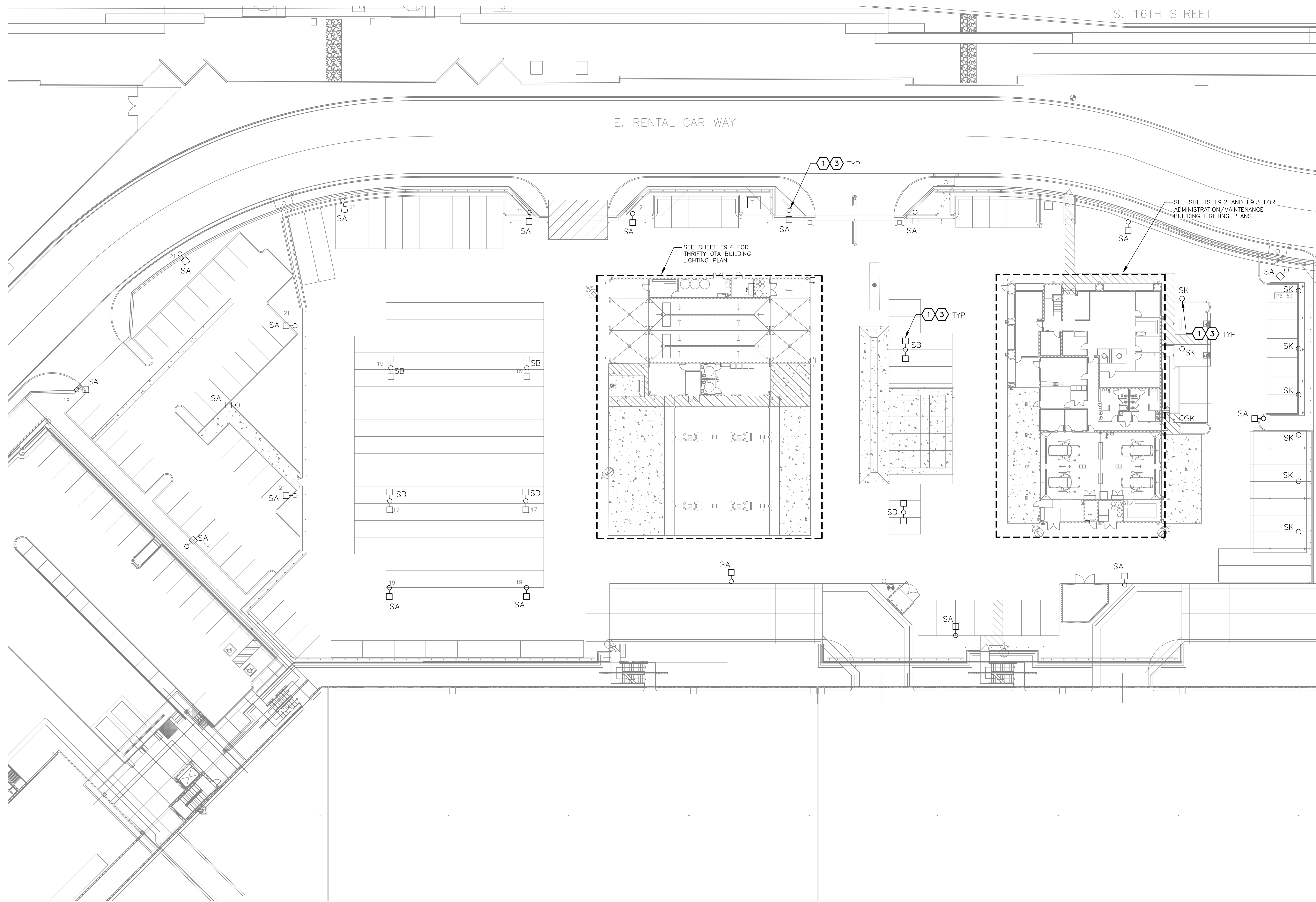
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Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**ELECTRICAL ROOM PLANS**  
LEVEL 3



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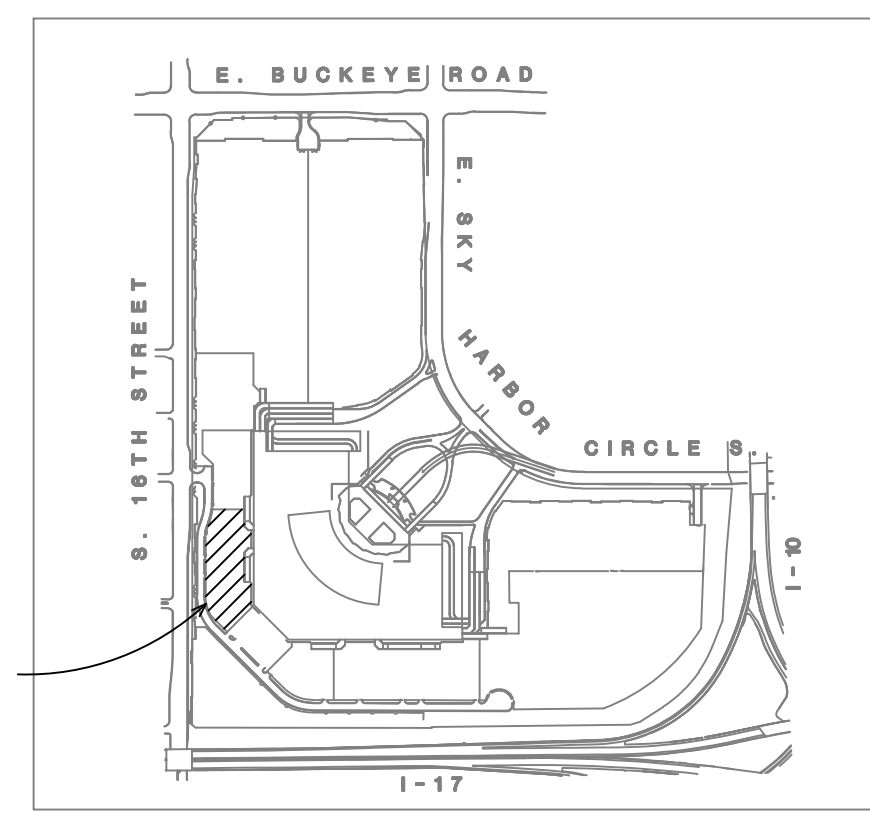
**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
- ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
- ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

**KEY PLAN**

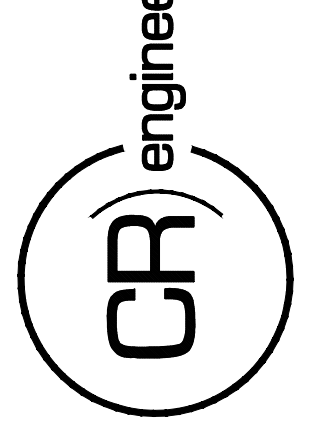
**KEYED NOTES**

- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.



**KEY PLAN**

16719 East Palisades Blvd., Suite 202  
 Fountain Hills, AZ 85268  
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KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-238 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV15000073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**FOX RENTAL SERVICE  
 SITE OVERALL LIGHTING PLAN**

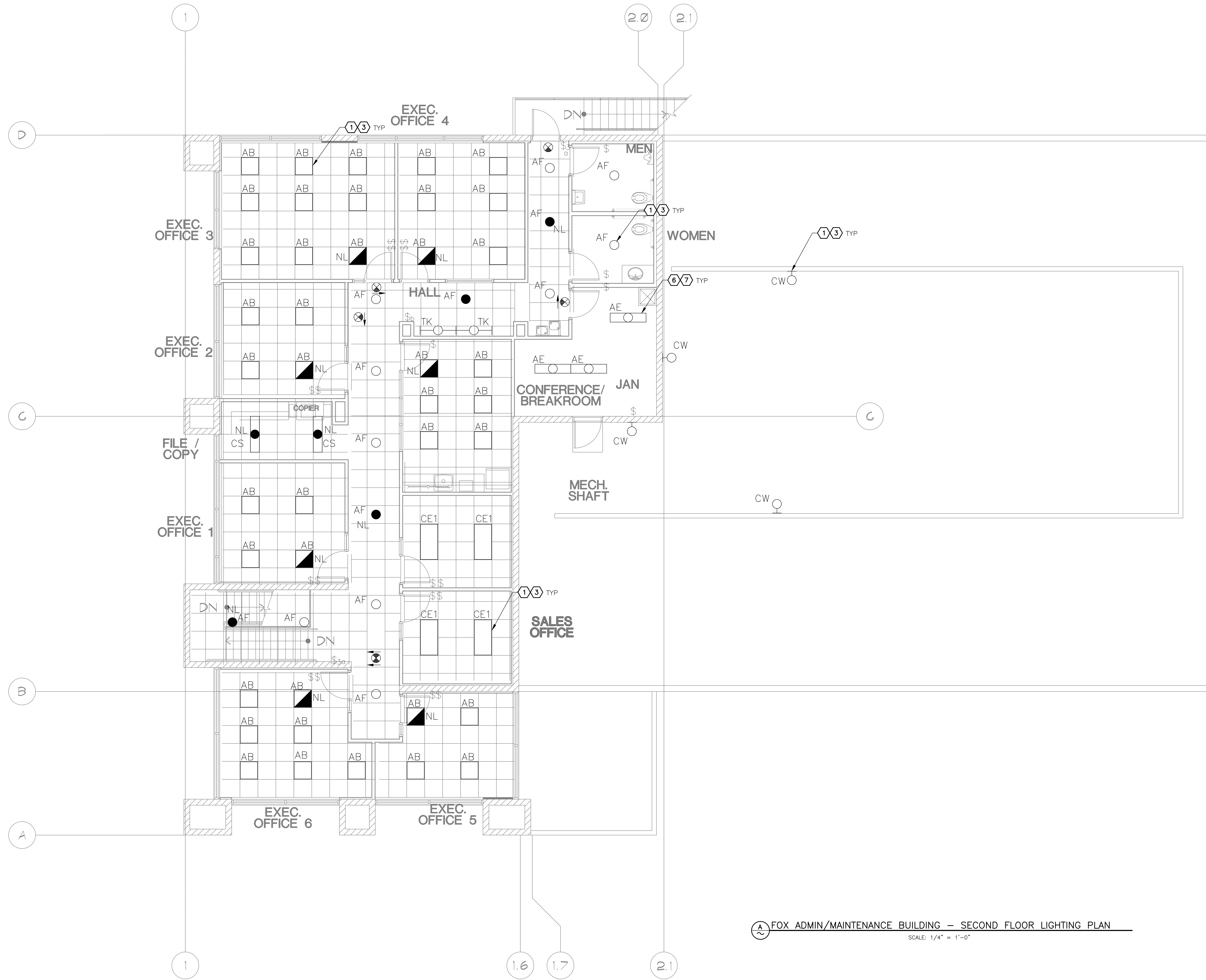
Sheet Reference Number:  
**E9.1**  
 Sheet 87 of 130

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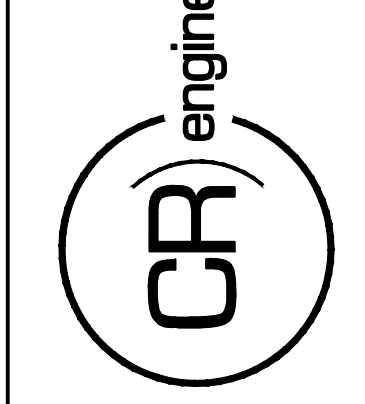
**GENERAL NOTES**

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2. ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
3. ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
4. OPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.

**KEYED NOTES**

- 1 EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- 3 NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
- 6 EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.
- 7 NEW FIXTURE LAMPS TO BE INSTALLED.

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KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO THE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

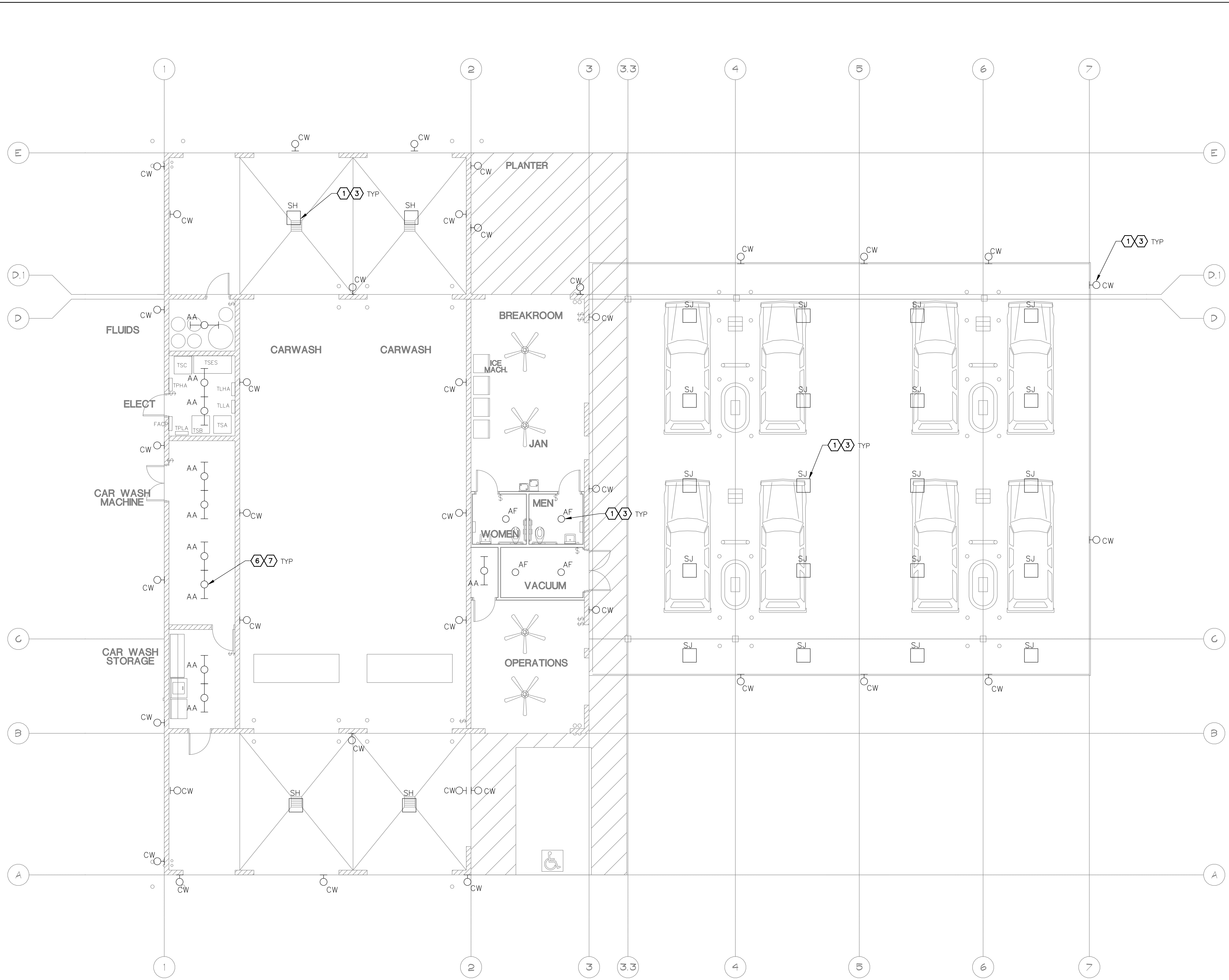
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV15000073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**FOX ADMIN/MAINTENANCE BUILDING - SECOND FLOOR LIGHTING PLAN**

**FOX ADMIN/MAINTENANCE BUILDING - SECOND FLOOR LIGHTING PLAN**  
 SCALE: 1/4" = 1'-0"



- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
  - EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.
  - NEW FIXTURE LAMPS TO BE INSTALLED.



KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

NO.	REVISIONS / SUBMISSIONS	DATE

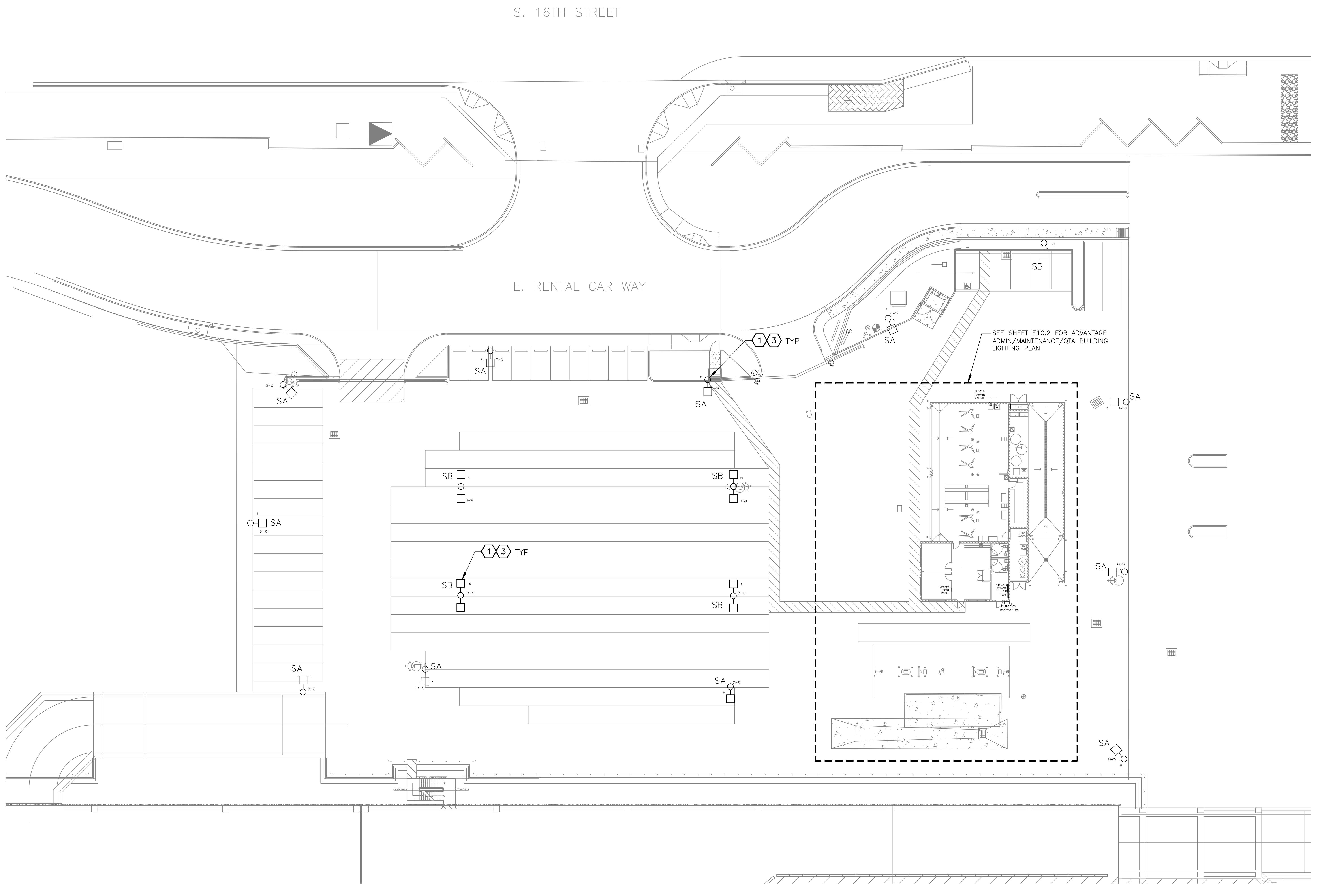
**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**FOX QTA BUILDING**  
**LIGHTING PLAN**

**FOX QTA BUILDING LIGHTING PLAN**  
 SCALE: 3/16" = 1'-0"

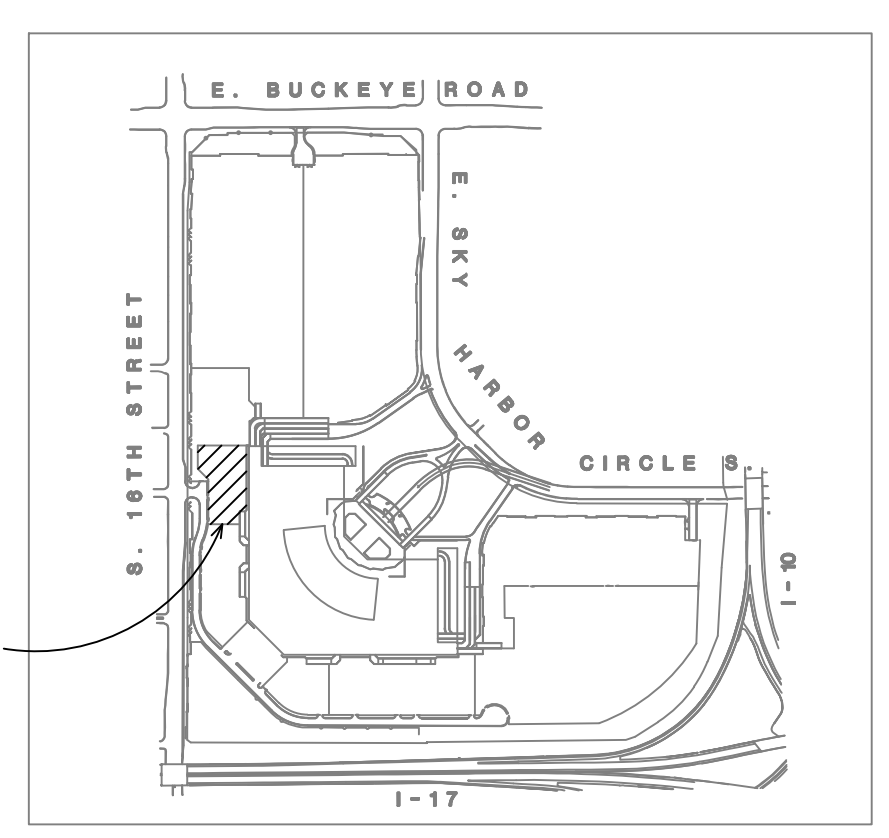
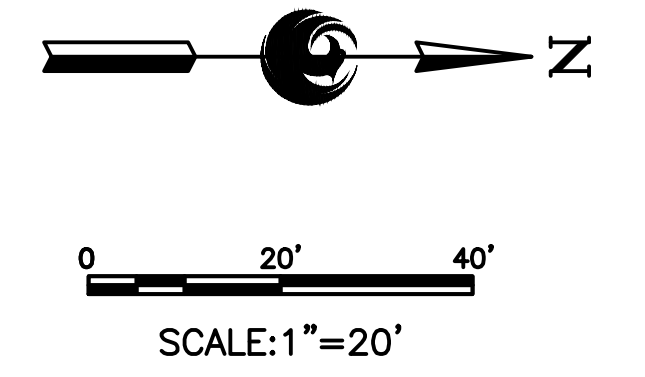
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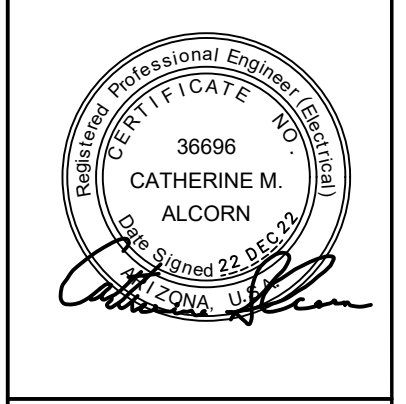
**FOX CAR RENTAL SERVICE SITE OVERALL LIGHTING PLAN**

- GENERAL NOTES**
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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- KEYED NOTES**
- EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
  - NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.



**KEY PLAN**



KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

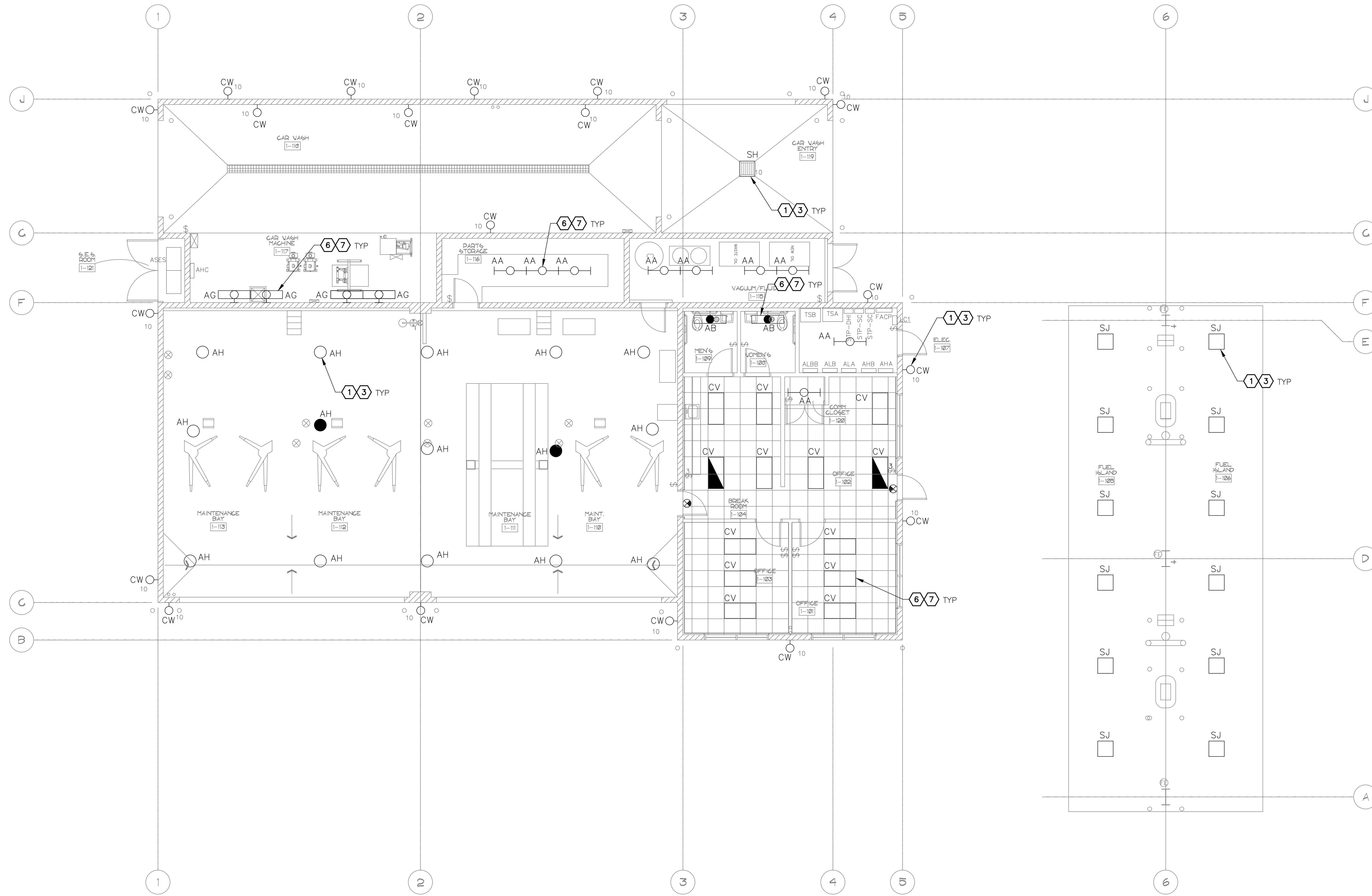
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: SBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**FOX CAR RENTAL SERVICE  
 SITE OVERALL LIGHTING PLAN**

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**FOX ADMIN/MAINTENANCE/QTA BUILDING LIGHTING PLAN**

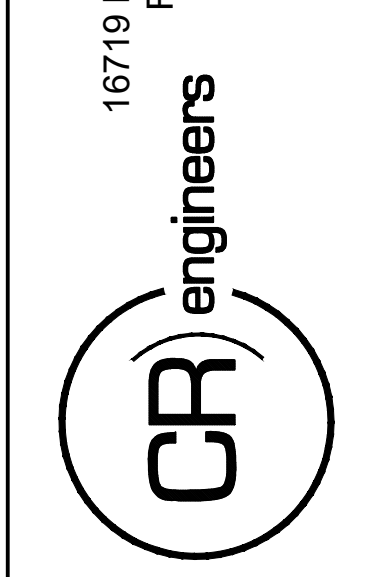
SCALE: 3/16" = 1'-0"

**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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- ③ NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
- ⑥ EXISTING FIXTURE LAMPS TO BE REMOVED AND DISPOSED OF.
- ⑦ NEW FIXTURE LAMPS TO BE INSTALLED.



KIVA NO:  
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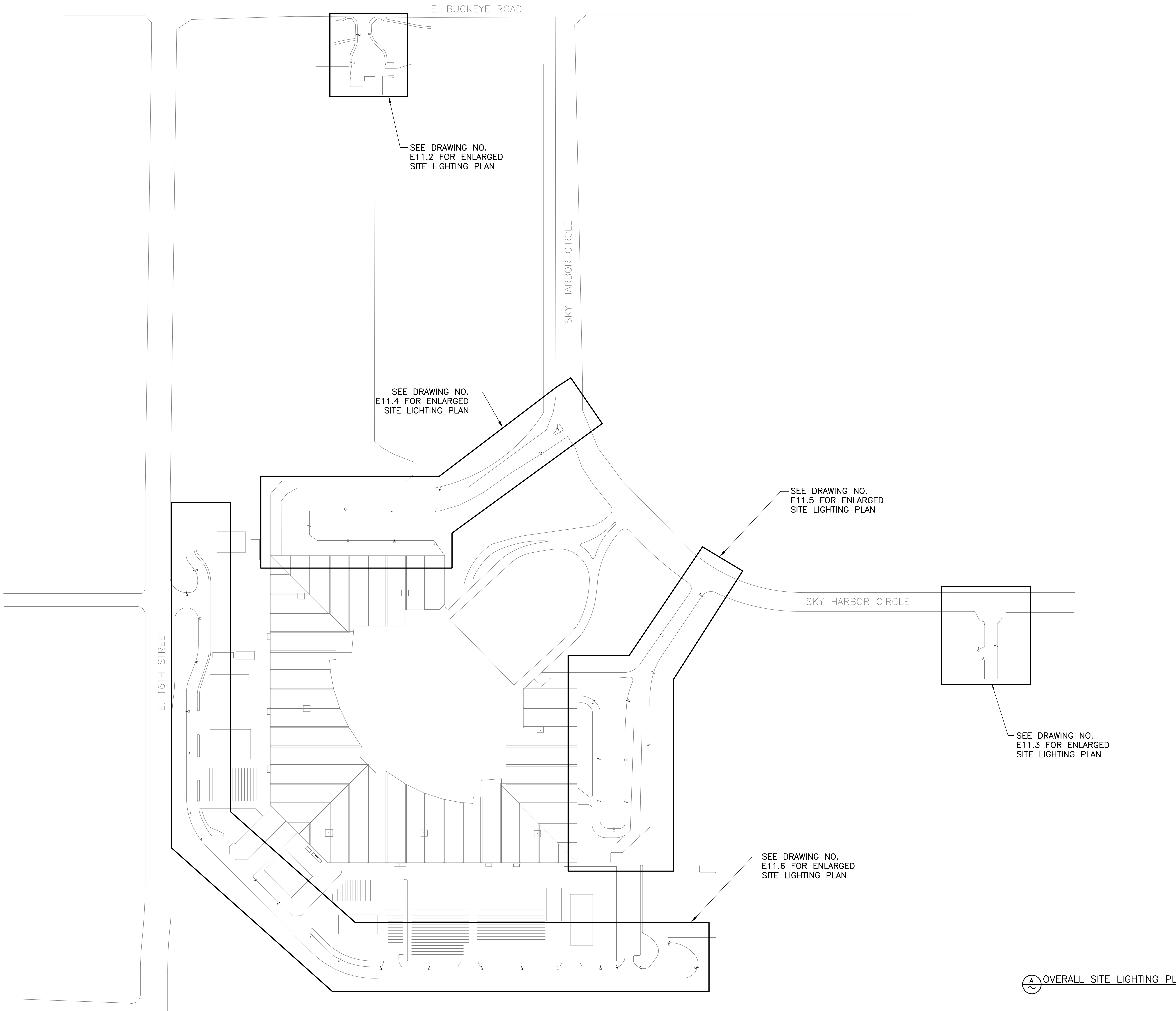
PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**FOX ADMIN/MAINTENANCE/  
 QTA BUILDING LIGHTING PLAN**



**(A) OVERALL SITE LIGHTING PLAN**

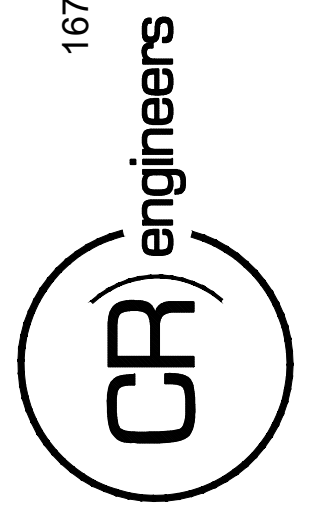
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**OVERALL SITE LIGHTING PLAN**  
Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg. scale: NTS

**PHX DOT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PHSIA RENTAL CAR  
LED LIGHT RETROFIT  
**AV15000073-1**

NO.	REVISIONS / SUBMISSIONS	DATE

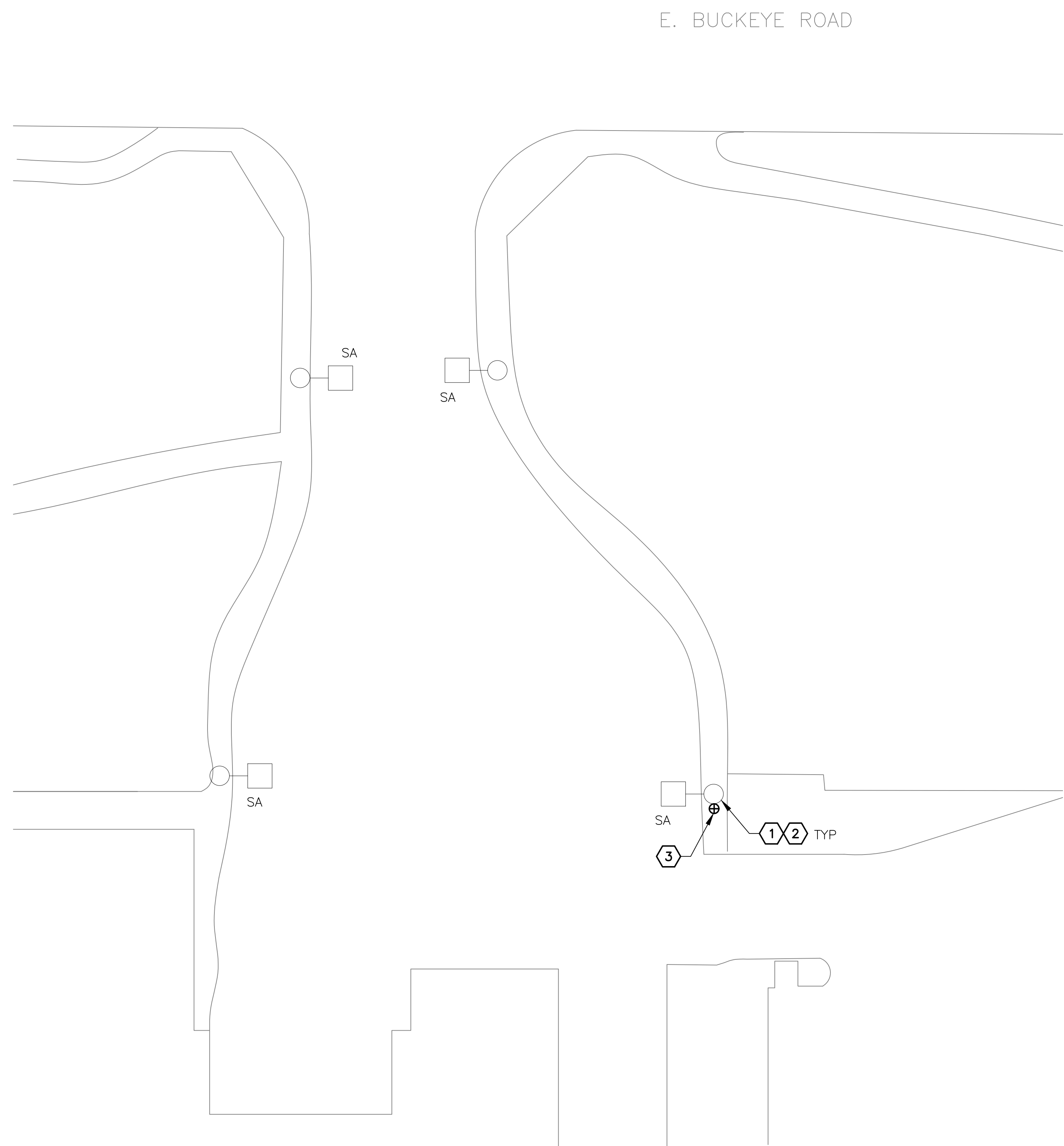
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KIVA NO:  
SDEV NO:  
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16719 East Palisades Blvd., Suite 202  
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Phone: (480) 816-5541  
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www.creng.com

CA:\PROJECTS\21000\21009\_PSH\_CAR\_LED\_Light\_Retrofit\CAD\_SHEETS\_17095\_E11.2\_Enlarged\_Site\_Lighting\_Plan.dwg - Dec 20, 2022 3:22pm



**ENLARGED SITE LIGHTING PLAN**  
 SCALE: 1/16" = 1'-0"

**CONSTRUCTION NOTES**

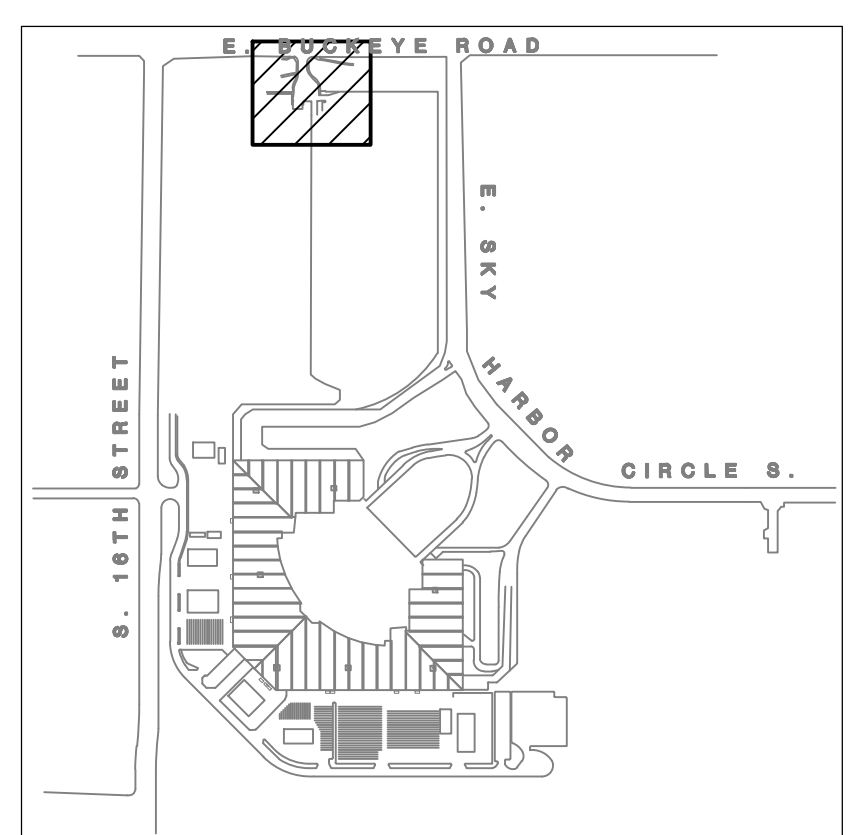
CONTRACTOR SHALL FIELD VERIFY VOLTAGE PRIOR TO PURCHASE OF FIXTURES

**GENERAL NOTES**

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4. GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
5. ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WSCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

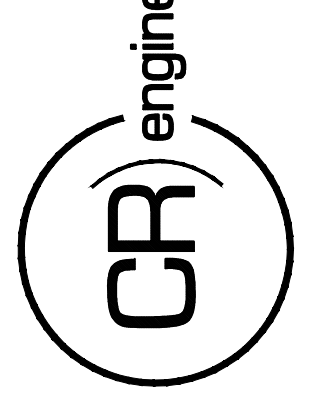
**KEYED NOTES**

- ① APPROXIMATE LOCATION OF EXISTING LIGHT POLE. EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING POLE, CONDUIT AND CONDUCTORS TO REMAIN.
- ② NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.
- ③ NEW 7-PIN EXTERIOR GATEWAY DEVICE FOR STREET LIGHTING POLE.



**KEY PLAN**

16719 East Palisades Blvd., Suite 202  
 Fountain Hills, AZ 85268  
 Phone: (480) 816-5541  
 Fax: (480) 816-5540  
 www.creng.com



KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

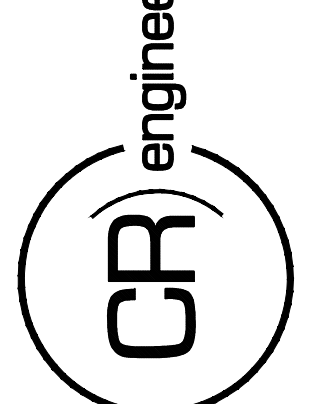
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**ENLARGED SITE LIGHTING PLAN**

16719 East Palisades Blvd., Suite 202  
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 Phone: (480) 816-5541  
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PHSIA RENTAL CAR LED LIGHT RETROFIT  
**ENLARGED SITE LIGHTING PLAN**

Sheet Reference Number:  
**E11.3**  
 Sheet 95 of 130

**CONSTRUCTION NOTES**

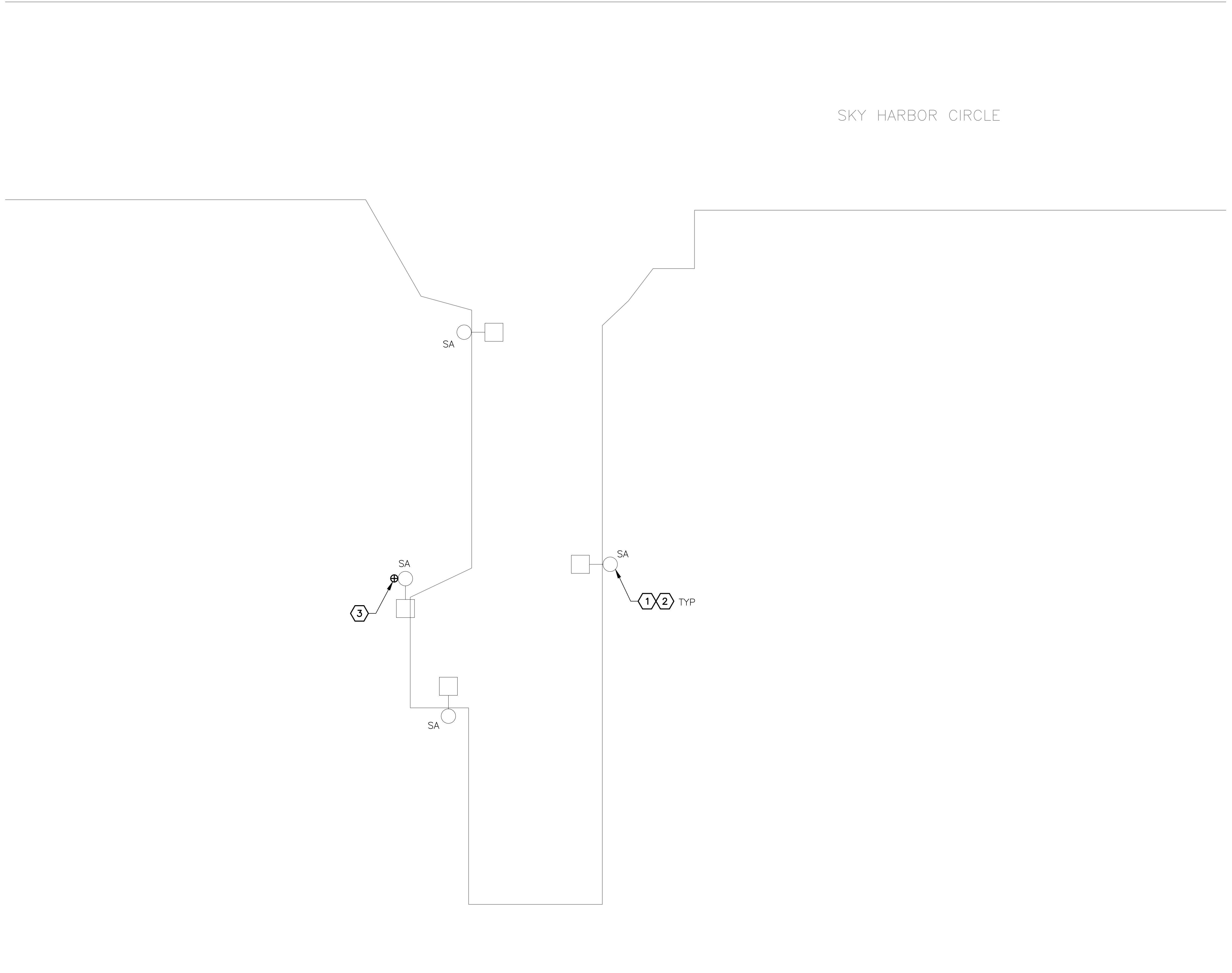
CONTRACTOR SHALL FIELD VERIFY VOLTAGE PRIOR TO PURCHASE OF FIXTURES

**GENERAL NOTES**

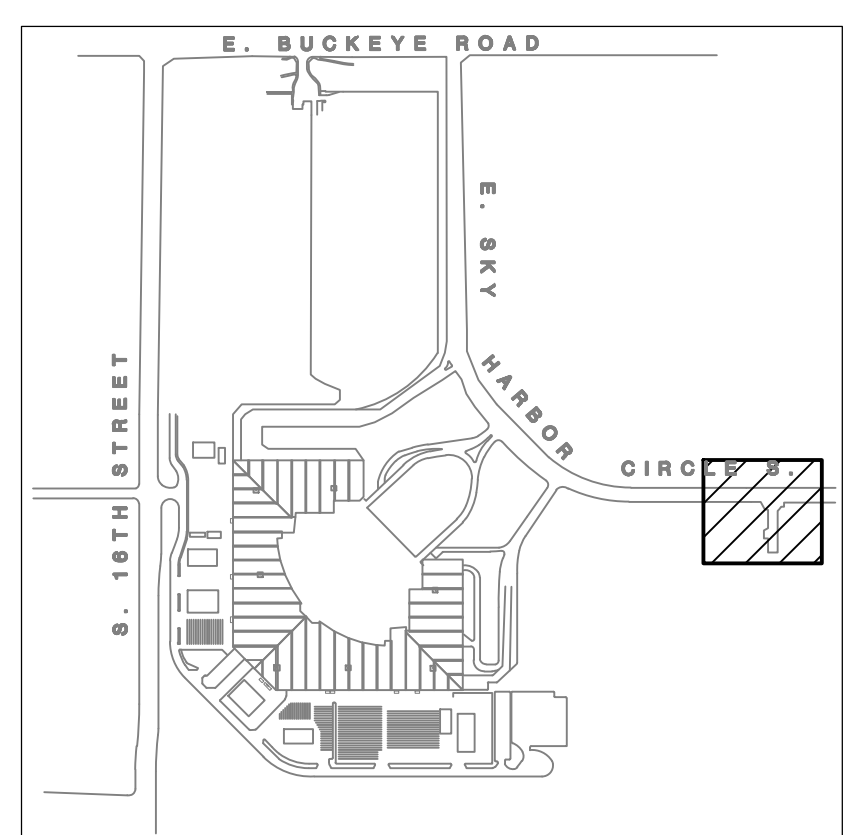
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**KEYED NOTES**

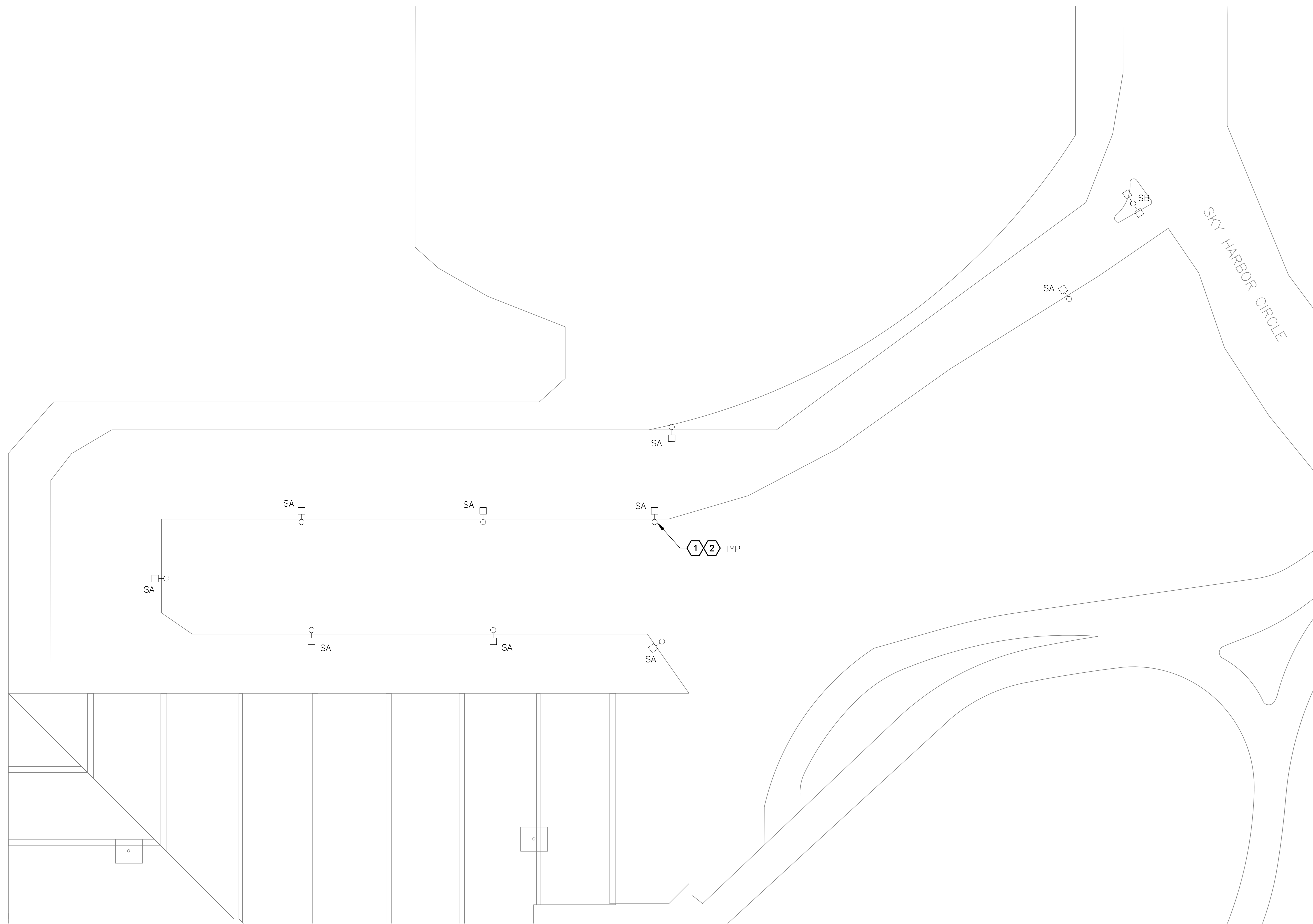
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**ENLARGED SITE LIGHTING PLAN**  
 SCALE: 1/16" = 1'-0"



**KEY PLAN**



**ENLARGED SITE LIGHTING PLAN**

**CONSTRUCTION NOTES**

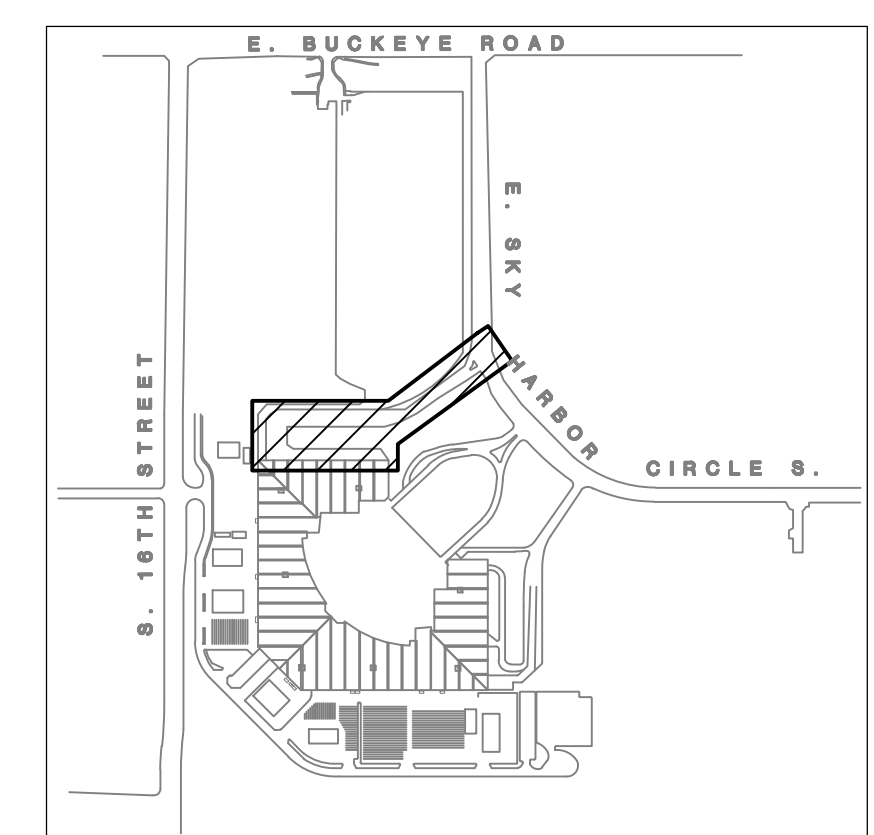
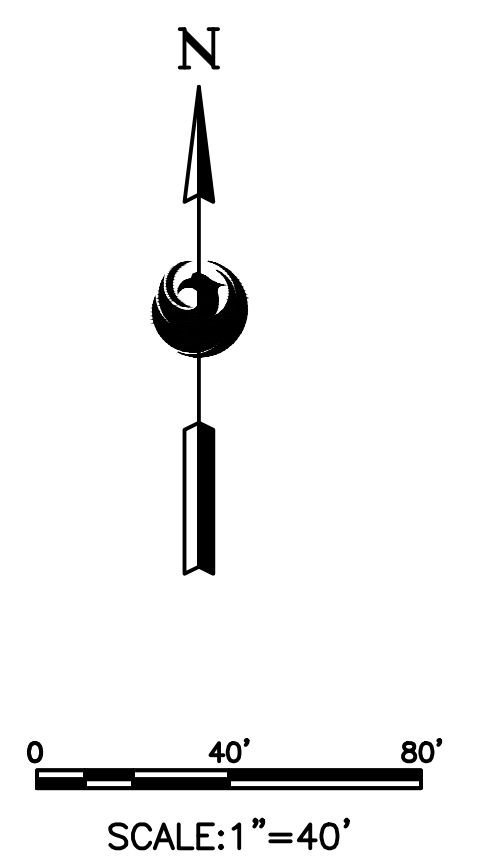
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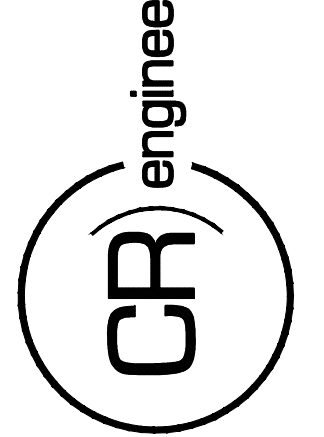
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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**ENLARGED SITE LIGHTING PLAN**







PANEL: SLHA			VOLTAGE: 277/480			MAIN CB: 200			BUS AMPS: 200		
CB TYPE: BOLT-ON			MOUNTING SURFACE			BRACING: 100K			BKR AIC: 14K		
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	BKR	CIRCUIT	CIRCUIT DESCRIPTION
LTG - SITE	201	1	3741					2	201	PHOTO EYE	
RENTAL CAR WAY NORTH	201	3	180								
LTG - SITE	201	1		2880				4	201	SPARE	
RENTAL CAR WAY MID	201	5			2880			6	201	SPARE	
RENTAL CAR WAY SOUTH	201	7	2016					8	201	SPARE	
LTG SERVICE YARD	201	9		2355				10	201	SPARE	
LTG SERVICE YARD	201	11			1917			12	201	SPARE	
LTG TUNNEL STAIRS 1&L	201	13	3400					14	201	SPARE	
IGT TUNNEL	201	15		3400				16	201	SPARE	
SPARE	201	17						18	201	SPARE	
SPARE	201	19						20	201	SPARE	
SPARE	201	21						22	201	SPARE	
SPARE	201	23						24	201	SPARE	
SPACE		25						26		SPACE	
SPACE		27						28		SPACE	
SPACE		29						30		SPACE	
SPACE		31						32		SPACE	
SPACE		33						34		SPACE	
SPACE		35						36		SPACE	
SPACE		37						38	60	PANEL SLHA	
SPACE		39	4500					40	/		
SPACE		41		4500				42	3		
CONNECTED KVA PER PHASE			13.8	13.1	7.8			NOTES:			
CONNECTED AMPS PER PHASE			50.0	47.4	28.1						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0						
CODE KVA PER PHASE			13.8	13.1	7.8						
CODE AMPS PER PHASE AT 277V			50.0	47.4	28.1						

**A** PANEL SLHA SCHEDULE

(LOCATED IN ELECTRICAL EQUIPMENT YARD)

PANEL: SLLA			VOLTAGE: 120/208			MAIN CB: 125			BUS AMPS: 125		
CB TYPE: BOLT-ON			MOUNTING SURFACE			BRACING: 100K			BKR AIC: 10K		
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	BKR	CIRCUIT	CIRCUIT DESCRIPTION
LTGART WALL	201	1	1500					2	201	SPARE	
LTGART WALL	201	3		1500				4	201	SPARE	
LTGART WALL	201	5			1500			6	201	SPARE	
LTGART WALL	201	7	1500					8	201	SPARE	
LTGART WALL	201	9		1500				10	201	SPARE	
LTGART WALL	201	11			1500			12	201	SPARE	
LTGART WALL	201	13	1500					14	201	SPARE	
LTGART WALL	201	15			1500			16	201	SPARE	
SPARE	201	17						18	201	SPARE	
SPARE	201	19						20	201	SPARE	
SPARE	201	21						22	201	SPARE	
SPARE	201	23						24	201	SPARE	
SPACE		25						26		SPACE	
SPACE		27						28		SPACE	
SPACE		29						30		SPACE	
SPACE		31						32		SPACE	
SPACE		33						34		SPACE	
SPACE		35						36		SPACE	
SPACE		37						38		SPACE	
SPACE		39						40		SPACE	
SPACE		41						42		SPACE	
CONNECTED KVA PER PHASE			4.5	4.5	3.0			NOTES:			
CONNECTED AMPS PER PHASE			37.5	37.5	25.0						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0						
CODE KVA PER PHASE			4.5	4.5	3.0						
CODE AMPS PER PHASE AT 120V			37.5	37.5	25.0						

**B** PANEL SLLA SCHEDULE

(LOCATED IN ELECTRICAL EQUIPMENT YARD)

PANEL: HCPA			VOLTAGE: 277/480			MAIN CB: MLO			BUS AMPS: 225A		
CB TYPE: BOLT-ON			MOUNTING SURFACE			BRACING: 100K			BKR AIC: 14K		
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	BKR	CIRCUIT	CIRCUIT DESCRIPTION
SPARE		30						2			SPACE
		2	3					4	30		SPARE
LTG		201	5		1425			6	2		
FAN COIL (FCUC-9)		201	7	1550				8	30		FAN COIL (FCUC-7) HTR 6KW
FAN COIL (FCUC-10) HTR 12KW		30/3	9	2400	4500			10	3		
		/	11		2400			12	/		
		3	13	4500				14	30		FAN COIL (FCUC-8)
SPACE		15		3400				16	/		
SPACE		17			3400			18	3		
SPACE		19						20			SPACE
SPACE		21						22			SPACE
SPACE		23						24			SPACE
SPACE		25						26			SPACE
SPACE		27						28			SPACE
SPACE		29						30			SPACE
SPACE		31						32			SPACE
SPACE		33						34			SPACE
SPACE		35						36			SPACE
XFMR TCP-2 (P/NL LCPA)		100	37	540				38			SPACE
		/	39		360			40			SPACE
		3	41					42			SPACE
CONNECTED KVA PER PHASE			12.4	10.7	12.4			NOTES:			
CONNECTED AMPS PER PHASE			44.7	38.5	44.9						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0						
CODE KVA PER PHASE			12.4	10.7	12.4						
CODE AMPS PER PHASE AT 277V			44.7	38.5	44.9						

**E** PANEL HCPA SCHEDULE

(LOCATED IN CENTRAL PLANT STORAGE ROOM)

PANEL: HCP			VOLTAGE: 277/480			MAIN CB: MLO			BUS AMPS: 225		
CB TYPE: BOLT-ON			MOUNTING SURFACE			BRACING: 100K			BKR AIC: 14K		
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	BKR	CIRCUIT	CIRCUIT DESCRIPTION
CHEMICAL ROOM HEATER #1	20	1	2400					2	20		EF CP-3
	/	3		2400				4	/		
	3	5			2400			6	3		
CHEMICAL ROOM HEATER #2	20	7	2400					8	20		SPARE
	/	9		2400				10	2		
	3	11			2400			12	20		CP-3
SPARE	30	13			288			14	2		
	2	15						16			SPACE
LTG - CENTRAL PLANT	201	17		288				18	15		FAN COIL (FCUC-1)
FAN COIL (FCUC-5) HTR 12KW	30	19	4500					20	/		
	/	21		4500				22	3		
	3	23			4500			24	15		FAN COIL (FCUC-2)
FAN COIL (FCUC-5) HTR 13KW	30	25	4600					26	/		
	/	27		4600				28	3		
	3	29			4600			30	15		FAN COIL (FCUC-3)
WATER HEATER	20	31		650				32	/		
	/	33			650			34	3		
	3	35						36	15		FAN COIL (FCUC-4)
XFMR TCP-1 (PANEL LCP)	70	37	12030					38	/		
	/	39		10310				40	3		
	3	41			9966			42			SPACE
CONNECTED KVA PER PHASE			30.0	28.3	31.3			NOTES:			
CONNECTED AMPS PER PHASE			108.3	102.0	112.9						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0						
CODE KVA PER PHASE			30.0	28.3	31.3						
CODE AMPS PER PHASE AT 277V			108.3	102.0	112.9						

**D** PANEL HCP SCHEDULE

(LOCATED IN CENTRAL PLANT BOILER ROOM)

PANEL: LCP			VOLTAGE: 120/208			MAIN CB: 150			BUS AMPS: 150		
CB TYPE: BOLT-ON			MOUNTING SURFACE			BRACING: 100K			BKR AIC: 14K		
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	BKR	CIRCUIT	CIRCUIT DESCRIPTION
RECPT CENTRAL PLANT	201	1	900					2	201		RECPT COOLING TWR (CT-3)
RECPT CENTRAL PLANT	201	3	360		720			4	201		RECPT COOLING TWR (CT-2)
RECPT CENTRAL PLANT	201	5			720			6	201		RECPT COOLING TWR (CT-1)
RECPT WOMANS TOILET	201	7	180		360			8	201		LTG COOLING TWR CATWALK
RECPT MENS TOILET	201	9	80		180			10	201		LTG COOLING TWR CATWALK
RECPT CENTRAL PLANT	201	11			80			12	201		CP-1 & CP-2
RECPT MONITORING OFFICE	201	13	540		1608			14	201		SPARE
RECPT MONITORING OFFICE	201	15		540				16	201		SPARE
RECPT MONITORING OFFICE	201	17			720			18	201		CHEM TREATMENT
RECPT MONITORING OFFICE	201	19	540		750			20	201		CHEM TREATMENT
ROLL UP DOOR COOL TWR	201	21		500				22	201		CHEM TREATMENT
RECPT OFFICE	201	23			720			24	201		WH-3 CONTROL & CP-1
RECPT ICE MACHINE	201	25	1200								

PANEL: GLHN1A		VOLTAGE: 277/480			MAIN CB: 100			BUS AMPS: 100	
CB TYPE	BOLT-ON	MOUNTING SURFACE		BRACING 100K		BKR AIC: 35K		1860 AIC	
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	
LTG LEVEL 1 ENTRY	201	1	1000			2	201	PANEL GLR1A PWA	
(GLR1A R-2)								FOR RELAY	
LTG LEVEL 1 NW, NE	201	3		600		4	201	SPARE	
(GLR1A R-1)									
LTG LEVEL 1 NW, NE	201	5			1200	6	201	SPARE	
(GLR1A R-3)									
LTG LEVEL 1 NW, NE	201	7	1200			8	201	SPARE	
(GLR1A R-4)									
LTG LEVEL 1 NW, NE	201	9		1200		10	201	SPARE	
(GLR1A R-5)									
LTG LEVEL 1 NW, NE	201	11			1200	12	201	SPARE	
(GLR1A R-6)									
LTG LEVEL 1 NW, NE	201	13	1200			14	201	SPARE	
(GLR1A R-7)									
LTG LEVEL 1 NW, NE	201	15		1200		16	201	SPARE	
(GLR1A R-8)									
LTG LEVEL 1 NW, NE	201	17			1200	18	201	SPARE	
(GLR1A R-9)									
LTG LEVEL 1 NW, NE	201	19	1200			20	201	SPARE	
(GLR1A R-10)									
LTG LEVEL 1 NW, NE	201	21		1200		22	201	SPARE	
(GLR1A R-11)									
LTG LEVEL 1 NW, NE	201	23			1200	24	201	SPARE	
(GLR1A R-12)									
LTG LEVEL 1 NW, NE	201	25	1200			26	201	SPARE	
(GLR1A R-13)									
LTG LEVEL 1 NW, NE	201	27		1200		28	201	SPARE	
(GLR1A R-14)									
LTG LEVEL 1 NW, NE	201	29			1200	30	201	SPARE	
(GLR1A R-15)									
LTG LEVEL 1 NW, NE	201	31	1200			32	201	SPARE	
(GLR1A R-16)									
LTG LEVEL 1 NW, NE	201	33		1200		34	201	SPARE	
(GLR1A R-17)									
LTG LEVEL 1 NW, NE	201	35			1200	36	201	LTG SIGNAGE LEVEL 1 NW	
(GLR1A R-18)					1500				
LTG LEVEL 1 NW, NE	201	37	1200			38	201	LTG SIGNAGE LEVEL 1 NW	
(GLR1A R-19)			1500						
LTG LEVEL 1 NW, NE	201	39		1200		40	201	LTG SIGNAGE LEVEL 1 NW	
(GLR1A R-20)				1500					
SPARE	201	41				42	201	LTG SIGNAGE LEVEL 1 NW	
CONNECTED KVA PER PHASE			10.8	9.3	10.2			NOTES:	
CONNECTED AMPS PER PHASE			39.0	33.6	36.8				
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0				
LARGEST MOTOR (25%)			0.0	0.0	0.0				
CODE KVA PER PHASE			10.8	9.3	10.2				
CODE AMPS PER PHASE AT 277V			39.0	33.6	36.8				

**A** PANEL GLHN1A SCHEDULE

PANEL: GLHN1B		VOLTAGE: 277/480			MAIN CB: 100			BUS AMPS: 100	
CB TYPE	BOLT-ON	MOUNTING SURFACE		BRACING 100K		BKR AIC: 35K		1860 AIC	
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	
LTG LEVEL 1 NW, NE	201	1	1200			2	201	SPARE	
(GLHN1B R-2)									
LTG LEVEL 1 NW, NE	201	3		1200		4	201	SPARE	
(GLHN1B R-1)									
LTG LEVEL 1 NW, NE	201	5			1200	6	201	SPARE	
(GLHN1B R-3)									
LTG LEVEL 1 NW, NE	201	7	1000			8	201	SPARE	
(GLHN1B R-4)									
LTG LEVEL 1 NW, NE	201	9		1000		10	201	SPARE	
(GLHN1B R-5)									
LTG LEVEL 1 NW, NE	201	11			800	12	201	SPARE	
(GLHN1B R-6)									
LTG LEVEL 1 NW, NE	201	13	1000			14	201	SPARE	
(GLHN1B R-7)									
LTG LEVEL 1 NW, NE	201	15		1000		16	201	SPARE	
(GLHN1B R-8)									
LTG LEVEL 1 NW, NE	201	17			800	18	201	SPARE	
(GLHN1B R-9)									
LTG LEVEL 1-2 NW, NE	201	19	3000			20	201	SPARE	
(GLHN1B R-10)									
LTG LEVEL 1-2 NW, NE	201	21		2800		22	201	SPARE	
(GLHN1B R-11)									
LTG LEVEL 1-2 NW, NE	201	23			2800	24	201	SPARE	
(GLHN1B R-12)									
LTG LEVEL 1 NW, NE	201	25	1200			26	201	SPARE	
(GLHN1B R-13)									
LTG LEVEL 1 NW, NE	201	27		1000		28	201	SPARE	
(GLHN1B R-14)									
LTG LEVEL 1 NW, NE	201	29			1000	30	201	SPARE	
(GLHN1B R-15)									
LTG LEVEL 1 NW, NE	201	31	1600			32	201	LTG SIGNAGE LEVEL 1 NE	
(GLHN1B R-16)			1500						
LTG LEVEL 1 NW, NE	201	33	1600			34	201	SPARE	
(GLHN1B R-17)			1500						
LTG LEVEL 1 NW, NE	201	35			1600	36	201	LTG SIGNAGE LEVEL 1 NE	
(GLHN1B R-18)					1500				
LTG LEVEL 1 NW, NE	201	37	1600			38	201	SPARE	
(GLHN1B R-19)									
LTG LEVEL 1 NW, NE	201	39		1600		40	201	LTG L1 N CORE EXT.	
(GLHN1B R-20)				3200					
LTG LEVEL 1 NW, NE	201	41			1600	42	201	LTG L1 N CORE EXT.	
(GLHN1B R-21)					3800				
CONNECTED KVA PER PHASE			12.1	14.9	14.8			NOTES:	
CONNECTED AMPS PER PHASE			43.7	53.8	53.4				
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0				
LARGEST MOTOR (25%)			0.0	0.0	0.0				
CODE KVA PER PHASE			12.1	14.9	14.8				
CODE AMPS PER PHASE AT 277V			43.7	53.8	53.4				

**B** PANEL GLHN1B SCHEDULE

PANEL: GLHN1C		VOLTAGE: 277/480			MAIN CB: 100			BUS AMPS: 100	
CB TYPE	BOLT-ON	MOUNTING SURFACE		BRACING 100K		BKR AIC: 14K			
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	
SPARE	201	1				2	201	LTG ELEV 10	
SPARE	201	3	75			4	201	LTG ELEV 09	
SPARE	201	5		75		6	201	LTG ELEV 08	
SPARE	201	7			75	8	201	LTG ENTRY CORE SIGN	
SPARE	201	9	900			10	201	SPARE	
SPARE	201	11				12	201	LTG CORE AREA	
SPARE	201	13		1457		14	201	LTG CORE LOBBY	
SPARE	201	15				16	201	SPARE	
SPARE	201	17				18	201	SPARE	
SPARE	201	19				20	201	SPARE	
SPARE	201	21				22	201	SPARE	
SPARE	201	23				24	201	SPARE	
SPACE	201	25				26	201	SPACE	
SPACE	201	27				28	201	SPACE	
SPACE	201	29				30	201	SPACE	
CONNECTED KVA PER PHASE			2.4	0.1	1.2			NOTES:	
CONNECTED AMPS PER PHASE			8.8	0.3	4.3				
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0				
LARGEST MOTOR (25%)			0.0	0.0	0.0				
CODE KVA PER PHASE			2.4	0.1	1.2				
CODE AMPS PER PHASE AT 277V			8.8	0.3	4.3				

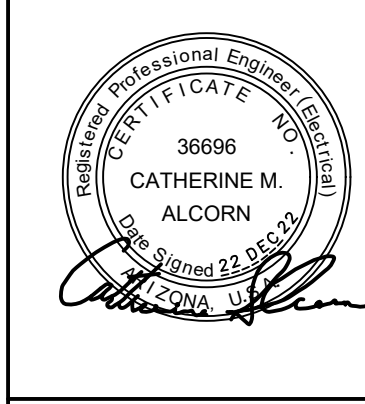
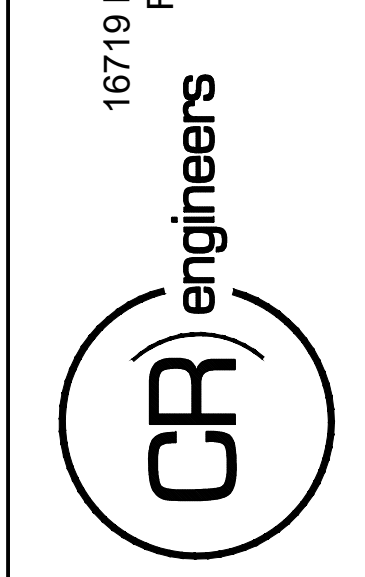
**C** PANEL GLHN1C SCHEDULE

PANEL: EGLHN1		VOLTAGE: 277/480			MAIN CB: 400			BUS AMPS: 400	
CB TYPE	BOLT-ON	MOUNTING SURFACE		BRACING 100K		BKR AIC: 14K			
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	
LTG LEVEL 1 NW, NE	201	1	1800			2	201	LTG CORE LOBBY	
(EGLHN1 R-2)			1238						
LTG LEVEL 1 NW, NE	201	3		2000		4	201	LTG CORE RM 125, 126, 130	
(EGLHN1 R-1)				700					
LTG LEVEL 1 NW, NE	201	5			2000	6	201	SPARE	
(EGLHN1 R-3)									
LTG LEVEL 1-2 NW, NE	201	7	2250			8	201	SPARE	
(EGLHN1 R-4)									
LTG LEVEL 1-2 NW, NE	201	9		2250		10	201	SPARE	
(EGLHN1 R-5)									
LTG LEVEL 1-2 NW, NE	201	11			2700	12	201	SPARE	
(EGLHN1 R-6)									
LTG L1 N CORE EXT.	201	13	1100			14	201	SPARE	
(EGLHN1 R-7)									
SPARE	201	15				16	201	SPARE	
SPARE	201	17				18	201	STAIR F EXIT EMERGENCY	
LTG L1 N ENTRY RAMP	201	19	1728			20	201	SPARE	
(EGLHN1 R-10)									
LTG L1 N ENTRY RAMP	201	21		1764		22	201	SPARE	
(EGLHN1 R-11)									
LTG L1 N RCT RAMP	201	23			1710	24	201	SPARE	
(EGLHN1 R-12)									
LTG EXT STAIR N	201	25	600			26		SPACE	
(EGLHN1 R-13)									
LTG EXT STAIR P	201	27		600		28		SPACE	
(EGLHN1 R-14)									
LTG EXT STAIR K	201	29			600	30		SPACE	
(EGLHN1 R-15)									
LTG EXT STAIR F 1ST & 2ND	201	31	2600			32		SPACE	
(EGLHN1 R-16)									
LTG CORE STAIR T 3RD & 4TH	201	33		1000		34		SPACE	
(EGLHN1 R-17)									
STAIR Q	201	35			1000	36		SPACE	
PANEL EGLHN2	200	37	36100			38		SPACE	
		39		32400		40		SPACE	
		41			27500	42		SPACE	
CONNECTED KVA PER PHASE			47.4	40.7	36.5			NOTES:	
CONNECTED AMPS PER PHASE			171.2	147.0	131.8				
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0				
LARGEST MOTOR (25%)			0.0	0.0	0.0				
CODE KVA PER PHASE			47.4	40.7	36.5				
CODE AMPS PER PHASE AT 277V			171.2	147.0	131.8	42.4KVA	277 V =	171.2 Amps	

**D** PANEL EGLHN1 SCHEDULE

GENERAL NOTE: ALL PANELBOARDS ARE EXISTING

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com



KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY  
CODE CHAPTER 2, SECTION  
2-238, THESE PLANS ARE FOR  
OFFICIAL USE ONLY AND MAY  
NOT BE SHARED WITH OTHERS  
EXCEPT AS REQUIRED TO  
FURNISH CONTRACTORS  
WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: SBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: NTS

PANEL SCHEDULES  
LEVEL 1  
NORTH CORE ELECTRICAL ROOM



PANEL: GLHE1A		VOLTAGE: 277/480			MAIN CB: 100			BUS AMPS: 100		AIC 17194	
CIRCUIT DESCRIPTION	CB TYPE	BOLT-ON	MOUNTING SURFACE			BRACING 100K			BKR AIC 14K		
			CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION		
LTG LEVEL 1 EAST	201	1		1200							
(GLRE1A R-2)							2	201		SPARE	
LTG LEVEL 1 EAST	201	3		1200							
(GLRE1A R-3)							4	201		SPARE	
LTG LEVEL 1 EAST	201	5			1200						
(GLRE1A R-3)							6	201		SPARE	
LTG LEVEL 1 EAST	201	7		1200							
(GLRE1A R-4)							8	201		SPARE	
LTG LEVEL 1 EAST	201	9			1200						
(GLRE1A R-5)							10	201		SPARE	
LTG LEVEL 1 EAST	201	11			1200						
(GLRE1A R-6)							12	201		SPARE	
LTG LEVEL 1 EAST	201	13		1200							
(GLRE1A R-7)							14	201		SPARE	
LTG LEVEL 1 EAST	201	15			1200						
(GLRE1A R-8)							16	201		SPARE	
LTG LEVEL 1 EAST	201	17			1200						
(GLRE1A R-9)							18	201		SPARE	
LTG LEVEL 1 EAST	201	19		1200							
(GLRE1A R-10)							20	201		SPARE	
LTG LEVEL 1 EAST	201	21			1200						
(GLRE1A R-11)							22	201		SPARE	
LTG LEVEL 1 EAST	201	23			1200						
(GLRE1A R-12)							24	201		SPARE	
LTG LEVEL 1 EAST	201	25		1200							
(GLRE1A R-13)							26	201		LTG L 1 EXT (GLRE1A R-21)	
LTG LEVEL 1 EAST	201	27		800	1200						
(GLRE1A R-14)					800		28	201		LTG L 1 EXT (GLRE1A R-22)	
LTG LEVEL 1 EAST	201	29			1200	1500				LTG LEVEL 1 EAST SIGNAGE	
(GLRE1A R-15)							30	201		SPARE	
LTG LEVEL 1 EAST	201	31		1200							
(GLRE1A R-16)							32	201		SPARE	
LTG LEVEL 1 EAST	201	33			1200						
(GLRE1A R-17)					1500		34	201		LTG LEVEL 1 E SIGNAGE	
LTG LEVEL 1 EAST	201	35			1200						
(GLRE1A R-18)							36	201		SPARE	
LTG L 1 EAST CORE EXT	201	37		3400							
(GLRE1A R-19)							38	201		SPARE	
LTG L 1 EAST CORE EXT	201	39			3300						
(GLRE1A R-20)							40	201		SPARE	
SPARE	201	41									
							42	201		SPARE	
CONNECTED KVA PER PHASE			11.4	12.8	8.7					NOTES:	
CONNECTED AMPS PER PHASE			41.2	46.2	31.4						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0						
CODE KVA PER PHASE			11.4	12.8	8.7						
CODE AMPS PER PHASE AT 277V			41.2	46.2	31.4						

**A** PANEL GLHE1A SCHEDULE

PANEL: GLHE1B		VOLTAGE: 277/480			MAIN CB: 100			BUS AMPS: 100		AIC 17194	
CIRCUIT DESCRIPTION	CB TYPE	BOLT-ON	MOUNTING SURFACE			BRACING 100K			BKR AIC 14K		
			CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION		
LTG LEVEL 1 EAST	201	1		1200							
(GLRE1B R-2)							2	201		SPARE	
LTG LEVEL 1 EAST	201	3		1200							
(GLRE1B R-1)							4	201		SPARE	
LTG LEVEL 1 EAST	201	5			1200						
(GLRE1B R-3)							6	201		SPARE	
LTG LEVEL 1 EAST	201	7		800							
(GLRE1B R-4)							8	201		SPARE	
LTG LEVEL 1 EAST	201	9			800						
(GLRE1B R-5)							10	201		SPARE	
LTG LEVEL 1 EAST	201	11			800						
(GLRE1B R-6)							12	201		SPARE	
LTG LEVEL 1 EAST	201	13		800							
(GLRE1B R-7)							14	201		SPARE	
LTG LEVEL 1 EAST	201	15			800						
(GLRE1B R-8)							16	201		SPARE	
LTG LEVEL 1 EAST	201	17			800						
(GLRE1B R-9)							18	201		SPARE	
LTG LEVEL 1 EAST	201	19		2600							
(GLRE1B R-10)							20	201		SPARE	
LTG LEVEL 1 EAST	201	21			2600						
(GLRE1B R-11)							22	201		SPARE	
LTG LEVEL 1 EAST	201	23			2600						
(GLRE1B R-12)							24	201		SPARE	
LTG LEVEL 1 EAST	201	25		800							
(GLRE1B R-13)					1200					LTG LEVEL 1 EAST (GLRE1B R-22)	
LTG LEVEL 1 EAST	201	27		800	1200						
(GLRE1B R-14)					1200		28	201		LTG LEVEL 1 EAST (GLRE1B R-23)	
LTG LEVEL 1 EAST	201	29			800	1200		30	201	LTG LEVEL 1 EAST (GLRE1B R-24)	
(GLRE1B R-15)							32			SPACE	
LTG LEVEL 1 EAST	201	31		1200							
(GLRE1B R-16)							34			SPACE	
LTG LEVEL 1 EAST	201	33			1200						
(GLRE1B R-17)							36			SPACE	
LTG LEVEL 1 EAST	201	35			1200						
(GLRE1B R-18)							38			SPACE	
LTG LEVEL 1 EAST	201	37		1200							
(GLRE1B R-19)							40			SPACE	
LTG LEVEL 1 EAST	201	39			1200						
(GLRE1B R-20)							42			SPACE	
LTG LEVEL 1 EAST	201	41			1200						
(GLRE1B R-21)							42			SPACE	
CONNECTED KVA PER PHASE			9.8	9.8	9.8					NOTES:	
CONNECTED AMPS PER PHASE			35.4	35.4	35.4						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0						
CODE KVA PER PHASE			9.8	9.8	9.8						
CODE AMPS PER PHASE AT 277V			35.4	35.4	35.4						

**B** PANEL GLHE1B SCHEDULE

PANEL: GLHE1C		VOLTAGE: 277/480			MAIN CB: 100			BUS AMPS: 100		AIC 16664	
CIRCUIT DESCRIPTION	CB TYPE	BOLT-ON	MOUNTING SURFACE			BRACING 100K			BKR AIC 14K		
			CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION		
SPARE	201	1		75							
SPARE	201	3									
SPARE	201	5			75						
SPARE	201	7				75					
SPARE	201	9					8	201		MISC ENTRY CORE SIGN	
SPARE	201	11					10	201		SPARE	
SPARE	201	13					12	201		SPARE	
SPARE	201	15		1232			14	201		LTG CORE LOBBY	
SPARE	201	17					16	201		SPARE	
SPARE	201	19					18	201		SPARE	
SPARE	201	21					20	201		SPARE	
SPARE	201	23					22	201		SPARE	
SPARE	201	25					24	201		SPARE	
SPARE	201	27					26			SPACE	
SPARE	201	29					28			SPACE	
CONNECTED KVA PER PHASE			2.2	0.1	1.2					NOTES:	
CONNECTED AMPS PER PHASE			8.0	0.3	4.3						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0						
CODE KVA PER PHASE			2.2	0.1	1.2						
CODE AMPS PER PHASE AT 277V			8.0	0.3	4.3						

**C** PANEL GLHE1C SCHEDULE

PANEL: EGLHE1		VOLTAGE: 277/480			MAIN CB: 400			BUS AMPS: 400		AIC 16664	
CIRCUIT DESCRIPTION	CB TYPE	BOLT-ON	MOUNTING SURFACE			BRACING 100K			BKR AIC 14K		
			CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION		
LTG LEVEL 1 EAST	201	1		2600							
(GLRE1 R-2)				1238			2	201		LTG CORE LOBBY	
LTG LEVEL 1 EAST	201	3			2600						
(GLRE1 R-1)					700		4	201		LTG CORE RM 156, 158, 159	
LTG LEVEL 1 EAST	201	5				2400					
(GLRE1 R-3)						1000	6	201		RELAY CONTROL	
LTG LEVEL 1 2 EAST	201	7		2250							
(GLRE1 R-4)				75			8	201		ELEVATOR 3 LTG	
LTG LEVEL 1 2 EAST	201	9			2250						
(GLRE1 R-5)					75		10	201		ELEVATOR 2 LTG	
LTG LEVEL 1 2 EAST	201	11				2700					
(GLRE1 R-6)						75	12	201		ELEVATOR 1 LTG	
LTG L 1 CORE EXT	201	13		1100							
(GLRE1 R-7)							14	201		SPARE	
LTG L 1 EXIT RAMP	201	15			1944						
(GLRE1 R-8)					1500		16	201		ELEVATOR 1 ENTRY SIGN	
LTG L 1 EXIT RAMP	201	17				1944					
(GLRE1 R-9) - ON							18	201		SPARE	
LTG L 1 EXIT RAMP	201	19		2124							
(GLRE1 R-10)							20	201		SPARE	
LTG L 1 EXIT RAMP	201	21			2088						
(GLRE1 R-11)							22	201		SPARE	
LTG L 1 EXIT RAMP	201	23				1615					
(GLRE1 R-12)							24	201		SPARE	
LTG-EXIT-STAIR-A	201	25		600							
(GLRE1 R-13)							26			SPACE	
LTG-EXIT-STAIR-E	201	27			600						
(GLRE1 R-14)							28			SPACE	
LTG-EXIT-STAIR-B	201	29				600					
(GLRE1 R-15)							30			SPACE	
LTG CORE-STAIR-R	201	31		1000							
(GLRE1 R-16)							32			SPACE	
SPARE	201	33									
SPARE	201	35					34			SPACE	
PANEL EGLHE2	200	37		9100							
							36			SPACE	
							38			SPACE	
						9100				SPACE	
							40			SPACE	
							42			SPACE	
CONNECTED KVA PER PHASE			20.1	20.9	17.3					NOTES:	
CONNECTED AMPS PER PHASE			72.5	75.3	62.6						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0</						







PANEL GLHC2A			VOLTAGE: 277/480		MAIN CB: 100		BUS AMPS: 100	
CIRCUIT DESCRIPTION	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K	PHASE B	PHASE C	CIRCUIT	BKR
LTG LEVEL 2 CTR W	20/1	1	1200				2	20/1
(GLRC2A R-2)								
LTG LEVEL 2 CTR W	20/1	3		1200			4	20/1
(GLRC2A R-1)								
LTG LEVEL 2 CTR W	20/1	5			1200		6	20/1
(GLRC2A R-3)								
LTG LEVEL 2 CTR W	20/1	7	1200				8	20/1
(GLRC2A R-4)								
LTG LEVEL 2 CTR W	20/1	9		1200			10	20/1
(GLRC2A R-5)								
LTG LEVEL 2 CTR W	20/1	11			1200		12	20/1
(GLRC2A R-6)								
LTG LEVEL 2 CTR W	20/1	13	1200				14	20/1
(GLRC2A R-7)								
LTG LEVEL 2 CTR W	20/1	15		1200			16	20/1
(GLRC2A R-8)								
LTG LEVEL 2 CTR W	20/1	17			1200		18	20/1
(GLRC2A R-9)								
LTG LEVEL 2 CTR W	20/1	19	1200				20	20/1
(GLRC2A R-10)								
LTG LEVEL 2 CTR W	20/1	21		1200			22	20/1
(GLRC2A R-11)								
LTG LEVEL 2 CTR W	20/1	23			1200		24	20/1
(GLRC2A R-12)								
LTG LEVEL 2 CTR W	20/1	25	1200				26	20/1
(GLRC2A R-13)								
LTG LEVEL 2 CTR W	20/1	27		1200			28	20/1
(GLRC2A R-14)								
LTG LEVEL 2 CTR W	20/1	29			1200		30	20/1
(GLRC2A R-15)								
LTG LEVEL 2 CTR W	20/1	31	1000				32	20/1
(GLRC2A R-16)								
LTG LEVEL 2 CTR W	20/1	33		1000			34	20/1
(GLRC2A R-17)								
LTG LEVEL 2 CTR W	20/1	35			1000		36	20/1
(GLRC2A R-18)								
LTG LEVEL 2 CTR W	20/1	37	1000				38	20/1
(GLRC2A R-19)								
LTG LEVEL 2 CTR W	20/1	39		800			40	20/1
(GLRC2A R-20)								
LTG LEVEL 2 CTR W	20/1	41			800		42	20/1
(GLRC2A R-21)								
CONNECTED KVA PER PHASE			11.4	10.8	10.6			
CONNECTED AMPS PER PHASE			41.2	39.0	38.3			
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0			
LARGEST MOTOR (25%)			0.0	0.0	0.0			
CODE KVA PER PHASE			11.4	10.8	10.6			
CODE AMPS PER PHASE AT 277V			41.2	39.0	38.3			

**A** PANEL GLHC2A SCHEDULE

PANEL GLHC2B			VOLTAGE: 277/480		MAIN CB: 100		BUS AMPS: 100	
CIRCUIT DESCRIPTION	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K	PHASE B	PHASE C	CIRCUIT	BKR
LTG LEVEL 2 CTR SW	20/1	1	1200				2	20/1
(GLRC2B R-2)								
LTG LEVEL 2 CTR SW	20/1	3		1200			4	20/1
(GLRC2B R-1)								
LTG LEVEL 2 CTR SW	20/1	5			1200		6	20/1
(GLRC2B R-3)								
LTG LEVEL 2 CTR SW	20/1	7	1200				8	20/1
(GLRC2B R-4)								
LTG LEVEL 2 CTR SW	20/1	9		1200			10	20/1
(GLRC2B R-5)								
LTG LEVEL 2 CTR SW	20/1	11			1200		12	20/1
(GLRC2B R-6)								
LTG LEVEL 2 CTR SW	20/1	13	1200				14	20/1
(GLRC2B R-7)								
LTG LEVEL 2 CTR SW	20/1	15		1200			16	20/1
(GLRC2B R-8)								
LTG LEVEL 2 CTR SW	20/1	17			1200		18	20/1
(GLRC2B R-9)								
LTG LEVEL 2 CTR SW	20/1	19	1200				20	20/1
(GLRC2B R-10)								
LTG LEVEL 2 CTR SW	20/1	21		1200			22	20/1
(GLRC2B R-11)								
LTG LEVEL 2 CTR SW	20/1	23			1000		24	20/1
(GLRC2B R-12)								
LTG LEVEL 2 CTR SW	20/1	25	1200				26	20/1
(GLRC2B R-13)								
LTG LEVEL 2 CTR SW	20/1	27		1200			28	20/1
(GLRC2B R-14)								
LTG LEVEL 2 CTR SW	20/1	29			800		30	20/1
(GLRC2B R-15)								
LTG LEVEL 2 CTR SW	20/1	31	1000				32	20/1
(GLRC2B R-16)								
LTG LEVEL 2 CTR SW	20/1	33		1000			34	20/1
(GLRC2B R-17)								
LTG LEVEL 2 CTR SW	20/1	35			800		36	20/1
(GLRC2B R-18)								
LTG LEVEL 2 CTR SW	20/1	37	1000				38	20/1
(GLRC2B R-19)								
LTG LEVEL 2 CTR SW	20/1	39		1000			40	20/1
(GLRC2B R-20)								
LTG LEVEL 2 CTR SW	20/1	41			1000		42	20/1
(GLRC2B R-21)								
CONNECTED KVA PER PHASE			11.0	10.6	9.2			
CONNECTED AMPS PER PHASE			39.7	38.3	33.2			
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0			
LARGEST MOTOR (25%)			0.0	0.0	0.0			
CODE KVA PER PHASE			11.0	10.6	9.2			
CODE AMPS PER PHASE AT 277V			39.7	38.3	33.2			

**B** PANEL GLHC2B SCHEDULE

PANEL EGLHC2C			VOLTAGE: 277/480		MAIN CB: 100		BUS AMPS: 100	
CIRCUIT DESCRIPTION	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K	PHASE B	PHASE C	CIRCUIT	BKR
SPARE	20/1	1					2	20/1
(GLRC2C R-2)								
SPARE	20/1	3	900				4	20/1
(GLRC2C R-1)								
SPARE	20/1	5			1200		6	20/1
(GLRC2C R-3)								
SPARE	20/1	7				1200	8	20/1
(GLRC2C R-4)								
SPARE	20/1	9	1200				10	20/1
(GLRC2C R-5)								
SPARE	20/1	11					12	20/1
(GLRC2C R-6)								
SPARE	20/1	13					14	20/1
(GLRC2C R-7)								
SPARE	20/1	15					16	20/1
(GLRC2C R-8)								
SPARE	20/1	17					18	20/1
(GLRC2C R-9)								
SPARE	20/1	19					20	20/1
(GLRC2C R-10)								
SPARE	20/1	21					22	20/1
(GLRC2C R-11)								
SPARE	20/1	23					24	20/1
(GLRC2C R-12)								
SPACE		25					26	SPACE
SPACE		27					28	SPACE
SPACE		29					30	SPACE
CONNECTED KVA PER PHASE			2.1	0.0	1.3			
CONNECTED AMPS PER PHASE			7.6	0.0	4.6			
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0			
LARGEST MOTOR (25%)			0.0	0.0	0.0			
CODE KVA PER PHASE			2.1	0.0	1.3			
CODE AMPS PER PHASE AT 277V			7.6	0.0	4.6			

**C** PANEL EGLHC2C SCHEDULE

PANEL EGLHC2			VOLTAGE: 277/480		MAIN CB: 200		BUS AMPS: 200	
CIRCUIT DESCRIPTION	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K	PHASE B	PHASE C	CIRCUIT	BKR
LTG LEVEL 2 CTR W	20/1	1	1800				2	20/1
(GLRC2 R-2)								
LTG LEVEL 2 CTR W	20/1	3	1600		1800		4	20/1
(GLRC2 R-1)								
LTG LEVEL 2 CTR W	20/1	5			925	1600	6	20/1
(GLRC2 R-3)								
LTG LEVEL 2 CTR W	20/1	7	1600				8	20/1
(GLRC2 R-4)								
LTG LEVEL 2 CTR W	20/1	9		1600			10	20/1
(GLRC2 R-5)								
LTG LEVEL 2 CTR W	20/1	11			1400		12	20/1
(GLRC2 R-6)								
LTG LEVEL 2 CTR SW	20/1	13	2000				14	20/1
(GLRC2 R-7)								
LTG LEVEL 2 CTR SW	20/1	15		2200			16	20/1
(GLRC2 R-8)								
LTG LEVEL 2 CTR SW	20/1	17			1800		18	20/1
(GLRC2 R-9)								
LTG 2 CTR CORE EXT	20/1	19	1100				20	20/1
(GLRC2 R-10)								
SPARE	20/1	21					22	20/1
(GLRC2 R-11)								
SPACE		23					24	20/1
SPACE		25					26	SPACE
SPACE		27					28	SPACE
SPACE		29					30	SPACE
SPACE		31					32	SPACE
SPACE		33					34	SPACE
SPACE		35					36	SPACE
SPACE		37					38	SPACE
SPACE		39					40	SPACE
SPACE		41					42	SPACE
CONNECTED KVA PER PHASE			8.2	6.5	4.8			
CONNECTED AMPS PER PHASE			29.5	23.6	17.3			
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0			
LARGEST MOTOR (25%)			0.0	0.0	0.0			
CODE KVA PER PHASE			8.2	6.5	4.8			
CODE AMPS PER PHASE AT 277V			29.5	23.6	17.3			

**D** PANEL EGLHC2 SCHEDULE

GENERAL NOTE: ALL PANELBOARDS ARE EXISTING

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 SDEV NO.:  
 CONTRACT NO.: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 23 SECTION 23-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTS WITH THE CITY OF PHOENIX.

NO. REVISIONS / SUBMISSIONS DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSBIA RENTAL CAR LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: NTS

PANEL SCHEDULES LEVEL 2 CENTER CORE ELECTRICAL ROOM

Sheet Reference Number:  
**E12.7**

Sheet 105 of 130

CA:\PROJECTS\21000\21009\_PHSIA\_RCG\_LED\_Light\_Retrofit\CAD\_SHEETS\17058\_E12.7\_Panel\_Schedules - Level 2 - Center Core Electrical room.dwg - Dec 20 2022 3:37pm

PANEL GLHE2A		VOLTAGE 277/480		MAIN CB: 100		BUS AMPS: 100		AIC 17248	
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	
LTG LEVEL 2 EAST	201	1							
(GLRE2 R-2)									
LTG LEVEL 2 EAST	201	3			1450		2	201	SPARE
(GLRE2 R-1)									
LTG LEVEL 2 EAST	201	5			1450		4	201	SPARE
(GLRE2 R-3)									
LTG LEVEL 2 EAST	201	7	1200				6	201	SPARE
(GLRE2 R-4)									
LTG LEVEL 2 EAST	201	9			1450		8	201	SPARE
(GLRE2 R-5)									
LTG LEVEL 2 EAST	201	11			1000		10	201	SPARE
(GLRE2 R-6)									
LTG LEVEL 2 EAST	201	13	1200				12	201	SPARE
(GLRE2 R-7)									
LTG LEVEL 2 EAST	201	15			1450		14	201	SPARE
(GLRE2 R-8)									
LTG LEVEL 2 EAST	201	17			1450		16	201	SPARE
(GLRE2 R-9)									
LTG LEVEL 2 EAST	201	19	1200				18	201	SPARE
(GLRE2 R-10)									
LTG LEVEL 2 EAST	201	21			1450		20	201	SPARE
(GLRE2 R-11)									
LTG LEVEL 2 EAST	201	23			1000		22	201	SPARE
(GLRE2 R-12)									
LTG LEVEL 2 EAST	201	25	1200				24	201	SPARE
(GLRE2 R-13)									
LTG LEVEL 2 EAST	201	27	800		1450		26	201	LTG L 2 EXIT (GLRE2 R-21)
(GLRE2 R-14)									
LTG LEVEL 2 EAST	201	29			800		28	201	LTG L 2 EXIT (GLRE2 R-22)
(GLRE2 R-15)									
LTG LEVEL 2 EAST	201	31	1200				30	201	LTG SIGNAGE LEVEL 2 EAST
(GLRE2 R-16)									
LTG LEVEL 2 EAST	201	33	1500		1450		32	201	LTG SIGNAGE LEVEL 2 EAST
(GLRE2 R-17)									
LTG LEVEL 2 EAST	201	35			1500		34	201	LTG SIGNAGE LEVEL 2 EAST
(GLRE2 R-18)									
LTG L 2 E - CORE-EXT	201	37	2900		1000		36	201	LTG SIGNAGE LEVEL 2 EAST
(GLRE2 R-19)									
LTG L 2 E - CORE-EXT	201	39	1500		1500		38	201	LTG SIGNAGE LEVEL 2 EAST
(GLRE2 R-20)									
SPARE	201	41			1500		40	201	LTG SIGNAGE LEVEL 2 EAST
CONNECTED KVA PER PHASE			13.3	15.2	11.9				NOTES:
CONNECTED AMPS PER PHASE			48.0	54.9	42.8				
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0				
LARGEST MOTOR (25%)			0.0	0.0	0.0				
CODE KVA PER PHASE			13.3	15.2	11.9				
CODE AMPS PER PHASE AT 277V			48.0	54.9	42.8				

**A** PANEL GLHE2A SCHEDULE

PANEL GLHE2B		VOLTAGE 277/480		MAIN CB: 100		BUS AMPS: 100		AIC 16727	
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	
LTG LEVEL 2 EAST	201	1							
(GLRE2B R-2)									
LTG LEVEL 2 EAST	201	3					2	201	POWER SUPPLY SWITCH
(GLRE2B R-1)									
LTG LEVEL 2 EAST	201	5			1000		4	201	SPARE
(GLRE2B R-3)									
LTG LEVEL 2 EAST	201	7	800				6	201	SPARE
(GLRE2B R-4)									
LTG LEVEL 2 EAST	201	9			800		8	201	SPARE
(GLRE2B R-5)									
LTG LEVEL 2 EAST	201	11			600		10	201	SPARE
(GLRE2B R-6)									
LTG LEVEL 2 EAST	201	13	800				12	201	SPARE
(GLRE2B R-7)									
LTG LEVEL 2 EAST	201	15			600		14	201	SPARE
(GLRE2B R-8)									
LTG LEVEL 2 EAST	201	17			600		16	201	SPARE
(GLRE2B R-9)									
LTG LEVEL 2 EAST	201	19	800				18	201	SPARE
(GLRE2B R-10)									
LTG LEVEL 2 EAST	201	21			600		20	201	SPARE
(GLRE2B R-11)									
LTG LEVEL 2 EAST	201	23			600		22	201	SPARE
(GLRE2B R-12)									
LTG LEVEL 2 EAST	201	25	800				24	201	SPARE
(GLRE2B R-13)									
LTG LEVEL 2 EAST	201	27	1200		600		26	201	LTG L 2 EXIT (GLRE2A R-22)
(GLRE2B R-14)									
LTG LEVEL 2 EAST	201	29			1200		28	201	LTG L 2 EXIT (GLRE2A R-23)
(GLRE2B R-15)									
LTG LEVEL 2 EAST	201	31	1200		600		30	201	LTG SIGNAGE (GLRE2A R-24)
(GLRE2B R-16)									
LTG LEVEL 2 EAST	201	33			1000		32		SPACE
(GLRE2B R-17)									
LTG LEVEL 2 EAST	201	35			1000		34		SPACE
(GLRE2B R-18)									
LTG LEVEL 2 EAST	201	37	1200				36		SPACE
(GLRE2B R-19)									
LTG LEVEL 2 EAST	201	39			1000		38		SPACE
(GLRE2B R-20)									
LTG LEVEL 2 EAST	201	41			1000		40		SPACE
(GLRE2B R-21)									
CONNECTED KVA PER PHASE			8.5	6.8	6.6				NOTES:
CONNECTED AMPS PER PHASE			30.7	24.5	23.8				
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0				
LARGEST MOTOR (25%)			0.0	0.0	0.0				
CODE KVA PER PHASE			8.5	6.8	6.6				
CODE AMPS PER PHASE AT 277V			30.7	24.5	23.8				

**B** PANEL GLHE2B SCHEDULE

PANEL GLHE2C		VOLTAGE 277/480		MAIN CB: 100		BUS AMPS: 100			
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	
SPARE	201	1							
SPARE	201	3	900				2	201	LTG CORE ENTRY SIGN
SPARE	201	5			1128		4	201	LTG CORE AREA
SPARE	201	7					6	201	SPARE
SPARE	201	9	1421				8	201	LTG CORE LOBBY
SPARE	201	11					10	201	SPARE
SPARE	201	13					12	201	SPARE
SPARE	201	15					14	201	SPARE
SPARE	201	17					16	201	SPARE
SPARE	201	19					18	201	SPARE
SPARE	201	21					20	201	SPARE
SPARE	201	23					22	201	SPARE
SPACE							24		SPACE
SPACE							26		SPACE
SPACE							28		SPACE
SPACE							30		SPACE
SPACE							32		SPACE
SPACE							34		SPACE
SPACE							36		SPACE
SPACE							38		SPACE
SPACE							40		SPACE
SPACE							42		SPACE
CONNECTED KVA PER PHASE			2.3	1.1	0.0				NOTES:
CONNECTED AMPS PER PHASE			8.4	4.1	0.0				
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0				
LARGEST MOTOR (25%)			0.0	0.0	0.0				
CODE KVA PER PHASE			2.3	1.1	0.0				
CODE AMPS PER PHASE AT 277V			8.4	4.1	0.0				

**C** PANEL GLHE2C SCHEDULE

PANEL EGLHE2		VOLTAGE 277/480		MAIN CB: 200		BUS AMPS: 200			
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION	
LTG LEVEL 2 EAST	201	1							
(EGLRE2 R-2)									
LTG LEVEL 2 EAST	201	3	1886				2	201	LTG CORE LOBBY
(EGLRE2 R-1)									
LTG LEVEL 2 EAST	201	5			2900		4	201	LTGRM 246 246 259
(EGLRE2 R-3)									
LTG LEVEL 2 EAST	201	7	1600		2650		6	201	POWER SUPPLY SWITCH
(EGLRE2 R-4)									
LTG LEVEL 2 EAST	2001	9			1400		8	201	SPARE
(EGLRE2 R-5)									
LTG LEVEL 2 EAST	201	11			1200		10	201	SPARE
(EGLRE2 R-6)									
LTG L 2 CORE EXT	201	13	900				12	201	SPARE
(EGLRE2 R-7)									
LTG L 2 EXIT RAMP	201	15			1980		14	201	SPARE
(EGLRE2 R-8)									
LTG L 2 EXIT RAMP	201	17			1944		16	201	SPARE
(EGLRE2 R-9)									
LTG L 2 EXIT RAMP	201	19	2160				18	201	SPARE
(EGLRE2 R-10)									
LTG L 2 EXIT RAMP	201	21			2160		20	201	SPARE
(EGLRE2 R-11)									
LTG L 2 EXIT RAMP	201	23			1235		22	201	SPARE
(EGLRE2 R-12)									
SPARE	201	25					24	201	SPARE
SPARE	201	27					26		SPACE
SPARE	201	29					28		SPACE
SPACE							30		SPACE
SPACE							32		SPACE
SPACE							34		SPACE
SPACE							36		SPACE
SPACE							38		SPACE
SPACE							40		SPACE
	</								

PANEL	GLHN3A	VOLTAGE	277/480	MAIN CB	100	BUS AMPS:	100			
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE	PHASE B	PHASE C	CIRCUIT	BKR	AIC	15084	CIRCUIT DESCRIPTION
LTGL3 NW, NE		201	1	3600						
(GLRNA R-2)				500		2	201			POWER SUPPLY SWITCH
LTGL3 NW, NE		201	3		3600					
(GLRNA R-1)						4	201			SPARE
LTGL3 NW, NE		201	5			6	201			SPARE
(GLRNA R-3)						8	201			SPARE
LTGL3 NW, NE		201	7		3600					
(GLRNA R-4)						10	201			SPARE
LTGL3 NW, NE		201	9		3600					
(GLRNA R-5)						12	201			SPARE
LTGL3 NW, NE		201	11			14	201			SPARE
(GLRNA R-6)						16	201			SPARE
LTGL3 NW, NE		201	13		4500					
(GLRNA R-7)						18	201			SPARE
LTGL3 NW, NE		201	15		4500					
(GLRNA R-8)						20	201			SPARE
LTGL3 NW, NE		201	17			22	201			SPARE
(GLRNA R-9)						24	201			SPARE
LTGL3 NW		201	19		4500					
(GLRNA R-10)						26	201			SPARE
LTGL3 NW		201	21		4050					
(GLRNA R-11)						28	201			SPARE
LTGL3 NW		201	23			30	201			SPARE
(GLRNA R-12)					4050	32	201			SPARE
LTGL3 UNDER BUS PLAT		201	25		2250	34	201			SPARE
(GLRNA R-13)						36	201			SPARE
LTGL3 UNDER BUS PLAT		201	27		2250	38	201			SPARE
(GLRNA R-14)						40	201			SPARE
LTGL3 UNDER BUS PLAT		201	29		2250	42	201			SPARE
(GLRNA R-15)						44	201			SPARE
SPARE		201	31							
SPARE		201	33							
SPARE		201	35							
SPACE			37		1500					LTG SIGNAGE LEVEL 3 NW
SPACE			39							
SPACE			41		1500					LTG SIGNAGE LEVEL 3 NW
CONNECTED KVA PER PHASE			19.0	19.5	19.5	NOTES:				
CONNECTED AMPS PER PHASE			68.4	70.4	70.4					
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0					
LARGEST MOTOR (25%)			0.0	0.0	0.0					
CODE KVA PER PHASE			19.0	19.5	19.5					
CODE AMPS PER PHASE AT 277V			68.4	70.4	70.4					

A PANEL GLHN3A SCHEDULE

PANEL	GLHN3B	VOLTAGE	277/480	MAIN CB	100	BUS AMPS:	100			
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE	PHASE B	PHASE C	CIRCUIT	BKR	AIC	14678	CIRCUIT DESCRIPTION
LTGL3 WEST		201	1	1350						
(GLRNB R-2)				1000		2	201			CABLE RELAY
LTGL3 WEST		201	3		1350					
(GLRNB R-1)						4	201			SPARE
LTGL3 WEST		201	5			6	201			SPARE
(GLRNB R-3)					1350	8	201			SPARE
LTGL3 CTR-N		201	7		3000					
(GLRNB R-4)						10	201			SPARE
LTGL3 CTR-N		201	9		2800					
(GLRNB R-5)						12	201			SPARE
LTGL3 CTR-N		201	11			14	201			SPARE
(GLRNB R-6)						16	201			SPARE
LTGL3 N CORE EXT		201	13		2300					
(GLRNB R-7)						18	201			SPARE
LTGL3 N CORE EXT		201	15		2200					
(GLRNB R-8)						20	201			SPARE
SPARE		201	17			22	201			SPARE
SPARE		201	19			24	201			SPARE
SPARE		201	21			26	201			SPARE
SPARE		201	23			28	201			SPARE
SPACE			25			30	201			SPARE
SPACE			27			32	201			SPARE
SPACE			29			34	201			SPARE
SPACE			31		1900	36	201			SPARE
SPACE			33			38	201			SPARE
SPACE			35		1500	40	201			SPARE
SPACE			37		1500	42	201			SPARE
SPACE			39			44	201			SPARE
SPACE			41							
CONNECTED KVA PER PHASE			10.7	7.9	5.7	NOTES:				
CONNECTED AMPS PER PHASE			38.4	28.3	20.4					
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0					
LARGEST MOTOR (25%)			0.0	0.0	0.0					
CODE KVA PER PHASE			10.7	7.9	5.7					
CODE AMPS PER PHASE AT 277V			38.4	28.3	20.4					

B PANEL GLHN3B SCHEDULE

PANEL	GLHN3C	VOLTAGE	277/480	MAIN CB	100	BUS AMPS:	100			
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE	PHASE B	PHASE C	CIRCUIT	BKR	AIC	14286	CIRCUIT DESCRIPTION
SPARE		201	1			2	201			LTGN ENTRY CORE
SPARE		201	3		900	4	201			LTGN CORE AREA
SPARE		201	5		1128	6	201			SPARE
SPARE		201	7			8	201			LTG CORE LOBBY
SPARE		201	9		1346	10	201			SPARE
SPARE		201	11			12	201			SPARE
SPARE		201	13			14	201			SPARE
SPARE		201	15			16	201			SPARE
SPARE		201	17			18	201			SPARE
SPARE		201	19			20	201			SPARE
SPARE		201	21			22	201			SPARE
SPARE		201	23			24	201			SPARE
SPARE		201	25			26	201			SPARE
SPARE		201	27			28	201			SPARE
SPARE		201	29			30	201			SPARE
CONNECTED KVA PER PHASE			2.2	1.1	0.0	NOTES:				
CONNECTED AMPS PER PHASE			8.1	4.1	0.0					
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0					
LARGEST MOTOR (25%)			0.0	0.0	0.0					
CODE KVA PER PHASE			2.2	1.1	0.0					
CODE AMPS PER PHASE AT 277V			8.1	4.1	0.0					

C PANEL GLHN3C SCHEDULE

PANEL	EGLHN3	VOLTAGE	277/480	MAIN CB	200	BUS AMPS:	200			
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE	PHASE B	PHASE C	CIRCUIT	BKR	AIC	11181	CIRCUIT DESCRIPTION
LTGL3 ENTRY		201	1		810					
(EGLRN3 R-2)					651	2	201			LTG CORE LOBBY
LTGL3 ENTRY		201	3		675					
(EGLRN3 R-1)					700	4	201			LTGRM 325, 328, 330
LTGL3 ENTRY		201	5			6	201			SPARE
(EGLRN3 R-3)					675	8	201			RELAY
LTGL3 NW		201	7		3600					
(EGLRN3 R-4)						10	201			SPARE
LTGL3 NW, NE		201	9		3600					
(EGLRN3 R-5)						12	201			SPARE
LTGL3 NW, NE		201	11		2700					
(EGLRN3 R-6)						14	201			LTGCSB EMERGENCY
LTGL3 NW, NE		201	15		3150					
(EGLRN3 R-7)						16	201			SPARE
LTGL3 NW, NE		201	17		3600					
(EGLRN3 R-8)						18	201			SPARE
LTGL3 NE		201	19		1200					
(EGLRN3 R-9)						20	201			SPARE
LTGL3 NE		201	21		1200					
(EGLRN3 R-10)						22	201			SPARE
LTGL3 NE		201	23		1200					
(EGLRN3 R-11)						24	201			SPARE
LTGL3 NE		201	25		800					
(EGLRN3 R-12)						26	201			SPACE
LTGL3 N CORE EXT STAIR T		201	27			28	201			SPACE
(EGLRN3 R-13)						30	201			SPACE
LTGL3 N ENTRY RAMP		201	29		1836					
(EGLRN3 R-14)						32	201			SPACE
LTGL3 N ENTRY RAMP		201	31		2160					
(EGLRN3 R-15)						34	201			SPACE
LTGL3 N ENTRY RAMP		201	33		2160					
(EGLRN3 R-16)						36	201			SPACE
LTGL3 N ENTRY RAMP		201	35		2005					
(EGLRN3 R-17)						38	201			SPACE
LTGL3 N RCC RAMP		201	37		2585					
(EGLRN3 R-18)						40	201			SPACE
LTGL3 N RCC RAMP		201	39			42	201			SPACE
(EGLRN3 R-19)										
SPARE		201	41							
CONNECTED KVA PER PHASE			16.9	13.3	12.0	NOTES:				
CONNECTED AMPS PER PHASE			61.0	48.1	43.4					
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0					
LARGEST MOTOR (25%)			0.0	0.0	0.0					
CODE KVA PER PHASE			16.9	13.3	12.0					
CODE AMPS PER PHASE AT 277V			61.0	48.1	43.4					

D PANEL EGLHN3 SCHEDULE



16719 East Palisades Blvd., Suite 202  
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KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY  
CODE CHAPTER 2, SECTION  
2-28, THESE PLANS ARE FOR  
OFFICIAL USE ONLY AND OTHERS  
NOT BE SHARED WITH OTHERS  
EXCEPT AS REQUIRED BY THE  
CONTRACTORS CONTRACT  
WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DWT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg. scale: NTS

PANEL SCHEDULES  
LEVEL 3  
NORTH CORE ELECTRICAL ROOM

Sheet Reference Number:  
**E12.9**

GENERAL NOTE: ALL PANELBOARDS ARE EXISTING

PANEL	GLHC3A			VOLTAGE 277/480			MAIN CB 100			BUS AMPS 100		
	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K		BRACING 100K		BKR AIC 14K	BKR	AIC 17056	CIRCUIT DESCRIPTION	
LTG LEVEL 3 CTR W	201	1	3150									
(GLRC3A R-2)							2	201			SPARE	
LTG LEVEL 3 CTR W	201	3		3150								
(GLRC3A R-1)							4	201			SPARE	
LTG LEVEL 3 CTR W	201	5			3150							
(GLRC3A R-5)							6	201			SPARE	
LTG LEVEL 3 CTR W	201	7	3600									
(GLRC3A R-4)							8	201			SPARE	
LTG LEVEL 3 CTR W	201	9		3600								
(GLRC3A R-5)							10	201			SPARE	
LTG LEVEL 3 CTR W	201	11			3150							
(GLRC3A R-6)							12	201			SPARE	
LTG LEVEL 3 CTR W	201	13	3150									
(GLRC3A R-7)							14	201			SPARE	
LTG LEVEL 3 CTR W	201	15		3150								
(GLRC3A R-8)							16	201			SPARE	
LTG LEVEL 3 CTR W	201	17			3150							
(GLRC3A R-9)							18	201			SPARE	
LTG LEVEL 3 CTR W	201	19	4050									
(GLRC3A R-10)							20	201			SPARE	
LTG LEVEL 3 CTR W	201	21		4050								
(GLRC3A R-11)							22	201			SPARE	
LTG LEVEL 3 CTR W	201	23			4050							
(GLRC3A R-12)							24	201			SPARE	
LTG LEVEL 3 CTR W	201	25	2200									
(GLRC3A R-13)							26				SPACE	
LTG LEVEL 3 CTR W	201	27		2000								
(GLRC3A R-14)							28				SPACE	
LTG LEVEL 3 CTR W	201	29			1800							
(GLRC3A R-15)							30				SPACE	
LTG LEVEL 3 CTR W	201	31	2700									
(GLRC3A R-16)							32				SPACE	
LTG LEVEL 3 CTR W	201	33		2700								
(GLRC3A R-17)							34				SPACE	
LTG LEVEL 3 CTR W	201	35			2700							
(GLRC3A R-18)							36				SPACE	
SWITCH RELAY PANEL	201	37										
SPARE	201	39										
SPARE	201	41										
CONNECTED KVA PER PHASE			18.9	18.7	18.0		NOTES:					
CONNECTED AMPS PER PHASE			68.1	67.3	65.0							
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0							
LARGEST MOTOR (25%)			0.0	0.0	0.0							
CODE KVA PER PHASE			18.9	18.7	18.0							
CODE AMPS PER PHASE AT 277V			68.1	67.3	65.0							

**A** PANEL GLHC3A SCHEDULE

PANEL	GLHC3B			VOLTAGE 277/480			MAIN CB 100			BUS AMPS 100		
	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K		BRACING 100K		BKR AIC 14K	BKR	AIC 16504	CIRCUIT DESCRIPTION	
LTG LEVEL 3 CTR N	201	1	1600									
(GLRC3B R-2)							2	201			SPARE	
LTG LEVEL 3 CTR N	201	3		1600								
(GLRC3B R-1)							4	201			SPARE	
LTG LEVEL 3 CTR N	201	5			1400							
(GLRC3B R-3)							6	201			SPARE	
LTG LEVEL 3 CTR N	201	7	1800									
(GLRC3B R-4)							8	201			SPARE	
LTG LEVEL 3 CTR N	201	9		1600								
(GLRC3B R-5)							10	201			SPARE	
LTG LEVEL 3 CTR N	201	11			1600							
(GLRC3B R-6)							12	201			SPARE	
LTG LEVEL 3 CTR S	201	13	3600									
(GLRC3B R-7)							14	201			SPARE	
LTG LEVEL 3 CTR S	201	15		3150								
(GLRC3B R-8)							16	201			SPARE	
LTG LEVEL 3 CTR S	201	17			3150							
(GLRC3B R-9)							18	201			SPARE	
LTG LEVEL 3 CTR S	201	19	2700									
(GLRC3B R-10)							20	201			SPARE	
LTG LEVEL 3 CTR S	201	21		2700								
(GLRC3B R-11)							22	201			SPARE	
LTG LEVEL 3 CTR S	201	23			2250							
(GLRC3B R-12)							24	201			SPARE	
LTG LEVEL 3 CTR S	201	25	3600									
(GLRC3B R-13)							26				SPACE	
LTG LEVEL 3 CTR S	201	27		3150								
(GLRC3B R-14)							28				SPACE	
LTG LEVEL 3 CTR S	201	29			3150							
(GLRC3B R-15)							30				SPACE	
LTG LEVEL 3 CTR S	201	31	500									
(GLRC3B R-16)							32				SPACE	
LTG LEVEL 3 CTR S	201	33		400								
(GLRC3B R-17)							34				SPACE	
SPARE	201	35										
SWITCH RELAY PANEL	201	37										
SPARE	201	39										
SPARE	201	41										
CONNECTED KVA PER PHASE			13.8	12.6	11.6		NOTES:					
CONNECTED AMPS PER PHASE			49.8	45.5	41.7							
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0							
LARGEST MOTOR (25%)			0.0	0.0	0.0							
CODE KVA PER PHASE			13.8	12.6	11.6							
CODE AMPS PER PHASE AT 277V			49.8	45.5	41.7							

**B** PANEL GLHC3B SCHEDULE

PANEL	GLHC3C			VOLTAGE 277/480			MAIN CB 100			BUS AMPS 100		
	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K		BRACING 100K		BKR AIC 14K	BKR	AIC 15977	CIRCUIT DESCRIPTION	
SPARE	201	1	900									
							2	201			LTG ENTRY CORE	
SPARE	201	3										
							4	201			SPARE	
SPARE	201	5										
							6	201			LTG CORE LOBBY	
SPARE	201	7										
							8	201			LTG CORE ROOMS	
SPARE	201	9	1200									
							10	201			SPARE	
SPARE	201	11										
							12	201			SPARE	
SPARE	201	13										
							14	201			SPARE	
SPARE	201	15										
							16	201			SPARE	
SPARE	201	17										
							18	201			SPARE	
SPARE	201	19										
							20	201			SPARE	
SPARE	201	21										
							22	201			SPARE	
SPARE	201	23										
							24	201			SPARE	
SPACE												
							26				SPACE	
SPACE												
							28				SPACE	
SPACE												
							30				SPACE	
CONNECTED KVA PER PHASE			2.1	0.0	1.1		NOTES:					
CONNECTED AMPS PER PHASE			7.6	0.0	4.0							
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0							
LARGEST MOTOR (25%)			0.0	0.0	0.0							
CODE KVA PER PHASE			2.1	0.0	1.1							
CODE AMPS PER PHASE AT 277V			7.6	0.0	4.0							

**C** PANEL GLHC3C SCHEDULE

PANEL	EGLHC3			VOLTAGE 277/480			MAIN CB 200			BUS AMPS 200		
	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K		BRACING 100K		BKR AIC 14K	BKR	AIC 17541	CIRCUIT DESCRIPTION	
LTG LEVEL 3 CTR	201	1	800									
(EGLRC3 R-2)							2	201			LTG CORE LOBBY	
LTG LEVEL 3 CTR	201	3	520									
(EGLRC3 R-1)						600					LTG CORE ROOMS	
LTG LEVEL 3 CTR	201	5			925							
(EGLRC3 R-5)						600						
LTG LEVEL 3 CTR S	201	7	2700									
(EGLRC3 R-4)						1500					STAIR H EXIT SIGNS	
LTG LEVEL 3 CTR S	201	9			1500							
(EGLRC3 R-5)							8	201			STAIR EXIT SIGNS	
LTG LEVEL 3 CTR S	201	11			2700							
(EGLRC3 R-6)							10	201			SPARE	
LTG LEVEL 3 CTR W	201	13	3150									
(EGLRC3 R-7)							12	201			SPARE	
LTG LEVEL 3 CTR W	201	15		3600								
(EGLRC3 R-8)							14	201			SPARE	
LTG LEVEL 3 CTR W	201	17			3150							
(EGLRC3 R-9)							16	201			SPARE	
LTGL 3 CTR CORE EXT	201	19	1100									
(EGLRC3 R-10)							18	201			SPARE	
LTG CORE STAIR S	201	21			300							
(EGLRC3 R-11)							20	201			SPARE	
SPARE	201	23										
							22	201			SPARE	
SPARE	201	25										
							24	201			SPARE	

PANEL: GLHE3A	CB TYPE	BOLT-ON	VOLTAGE: 277/480			MAIN CB: 100			BUS AMPS: 100		
			MOUNTING SURFACE	BRACING: 100K	PHASE A	PHASE B	PHASE C	BKR AIC: 14K	AIC: 1679	CIRCUIT DESCRIPTION	
LTG LEVEL 3 SOUTH	201	1									
(GLRE23A R-2)			4050					2	201	POWER SUPPLY SWITCH	
LTG LEVEL 3 SOUTH	201	3			4050						
(GLRE23A R-1)								4	201	SPARE	
LTG LEVEL 3 SOUTH	201	5				3600					
(GLRE23A R-3)								6	201	SPARE	
LTG LEVEL 3 CTRE	201	7			2800						
(GLRE23A R-4)								8	201	SPARE	
LTG LEVEL 3 CTRE	201	9				2800					
(GLRE23A R-5)								10	201	SPARE	
LTG LEVEL 3 CTRE	201	11				3000					
(GLRE23A R-6)								12	201	SPARE	
LTG LEVEL 3 SE	201	13			4050						
(GLRE23A R-7)								14	201	SPARE	
LTG LEVEL 3 SE	201	15				4050					
(GLRE23A R-8)								16	201	SPARE	
LTG LEVEL 3 SE	201	17					4050				
(GLRE23A R-9)								18	201	SPARE	
LTG 3 UNDER BUS PLTRM	201	19			2250						
(GLRE23A R-10)								20	201	SPARE	
LTG 3 UNDER BUS PLTRM	201	21				2250					
(GLRE23A R-11)								22	201	SPARE	
LTG 3 UNDER BUS PLTRM	201	23				2250					
(GLRE23A R-12)								24	201	SPARE	
SPACE		25									
SPACE		27			1500						
SPACE		29									
SPACE		31									
SPACE		33									
SPACE		35				1900					
SPACE		37									
SPACE		39									
SPACE		41									
CONNECTED KVA PER PHASE			15.2	14.7	12.9						NOTES:
CONNECTED AMPS PER PHASE			54.7	52.9	46.6						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0						
CODE KVA PER PHASE			15.2	14.7	12.9						
CODE AMPS PER PHASE AT 277V			54.7	52.9	46.6						

A PANEL GLHE3A SCHEDULE

PANEL: GLHE3B	CB TYPE	BOLT-ON	VOLTAGE: 277/480			MAIN CB: 100			BUS AMPS: 100		
			MOUNTING SURFACE	BRACING: 100K	PHASE A	PHASE B	PHASE C	BKR AIC: 14K	AIC: 16284	CIRCUIT DESCRIPTION	
LTG LEVEL 3 EAST	201	1			4050						
(GLREB R-2)								2	201	HPSM	
LTG LEVEL 3 EAST	201	3				4050					
(GLREB R-1)								4	201	LTG LEVEL 3 EAST	
LTG LEVEL 3 EAST	201	5					4050				
(GLREB R-3)								6	201	LTG LEVEL 3 EAST	
LTG LEVEL 3 SE	201	7					4050				
(GLREB R-4)								8	201	LTG LEVEL 3 EAST	
LTG LEVEL 3 SE	201	9					4050				
(GLREB R-5)								10	201	SPARE	
LTG LEVEL 3 SE	201	11						4050			
(GLREB R-6)								12	201	SPARE	
LTG LEVEL 3 EAST	201	13			3600						
(GLREB R-7)								14	201	SPARE	
LTG LEVEL 3 EAST	201	15				3150					
(GLREB R-8)								16	201	SPARE	
LTG LEVEL 3 EAST	201	17					3150				
(GLREB R-9)								18	201	SPARE	
LTG 3 CORE EXT	201	19			2300						
(GLREB R-10)								20	201	SPARE	
LTG 3 CORE EXT	201	21				2300					
(GLREB R-11)								22	201	SPARE	
SPACE		23									
SPACE		25									
SPACE		27									
SPACE		29									
SPACE		31									
SPACE		33									
SPACE		35									
SPACE		37									
SPACE		39									
SPACE		41									
CONNECTED KVA PER PHASE			19.1	17.5	15.3						NOTES:
CONNECTED AMPS PER PHASE			68.8	63.2	55.2						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0						
CODE KVA PER PHASE			19.1	17.5	15.3						
CODE AMPS PER PHASE AT 277V			68.8	63.2	55.2						

B PANEL GLHE3B SCHEDULE

PANEL: GLHE3C	CB TYPE	BOLT-ON	VOLTAGE: 277/480			MAIN CB: 100			BUS AMPS: 100		
			MOUNTING SURFACE	BRACING: 100K	PHASE A	PHASE B	PHASE C	BKR AIC: 14K	AIC: 15807	CIRCUIT DESCRIPTION	
SPARE	201	1									
SPARE	201	3			900						
SPARE	201	5				1053					
SPARE	201	7									
SPARE	201	9			1346						
SPARE	201	11									
SPARE	201	13									
SPARE	201	15									
SPARE	201	17									
SPARE	201	19									
SPARE	201	21									
SPARE	201	23									
SPACE		25									
SPACE		27									
SPACE		29									
CONNECTED KVA PER PHASE			2.2	1.1	0.0						NOTES:
CONNECTED AMPS PER PHASE			8.1	3.8	0.0						
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0						
LARGEST MOTOR (25%)			0.0	0.0	0.0						
CODE KVA PER PHASE			2.2	1.1	0.0						
CODE AMPS PER PHASE AT 277V			8.1	3.8	0.0						

C PANEL GLHE3C SCHEDULE

PANEL: EGLHE3	CB TYPE	BOLT-ON	VOLTAGE: 277/480			MAIN CB: 200			BUS AMPS: 200			
			MOUNTING SURFACE	BRACING: 100K	PHASE A	PHASE B	PHASE C	BKR AIC: 14K	AIC: 17095	CIRCUIT DESCRIPTION		
LTG 3 EXT	201	1			810							
(EGLRE3 R-2)					651					2	201	LTG CORE LOBBY
LTG 3 EXT	201	3				675						
(EGLRE3 R-1)							775			4	201	LTG RM 356-359
LTG 3 EXT	201	5						675				
(EGLRE3 R-3)									500	6	201	POWER SUPPLY SWITCH
LTG LEVEL 3 EAST	201	7			3150							
(EGLRE3 R-4)										8	201	HPSM
LTG LEVEL 3 EAST	201	9						2700				
(EGLRE3 R-5)										10	201	SPARE
LTG LEVEL 3 EAST	201	11						2700				
(EGLRE3 R-6)									1872	12	201	CSB WALL MT BUS RAMP
LTG LEVEL 3 SOUTH	201	13			1800							
(EGLRE3 R-7)										14	201	SPARE
LTG LEVEL 3 SOUTH	201	15				1350						
(EGLRE3 R-8)										16	201	SPARE
LTG LEVEL 3 SOUTH	201	17					1350					
(EGLRE3 R-9)										18	201	SPARE
LTG LEVEL 3 SE	201	19			3150							
(EGLRE3 R-10)										20	201	SPARE
LTG LEVEL 3 SE	201	21				3150						
(EGLRE3 R-11)										22	201	SPARE
LTG LEVEL 3 SE	201	23					2700					
(EGLRE3 R-12)										24	201	SPARE
LTG LEVEL 3 CTRE	201	25			1000							
(EGLRE3 R-13)										26	201	SPARE
LTG LEVEL 3 CTRE	201	27					1000					
(EGLRE3 R-14)										28	201	SPARE
LTG LEVEL 3 CTRE	201	29						1000				
(EGLRE3 R-15)										30	201	SPARE
LTG 3 CORE EXT	201	31			800							
(EGLRE3 R-16)										32	60	MISC ECLHE CSB LEVEL
LTG 3 UNDER BUS PLTRM	201	33			9170		1800					
(EGLRE3 R-17)							7485			34		
LTG 3 EXT RAMP	201	35						1620				
(EGLRE3 R-18)												

PANEL CLHNA		VOLTAGE 277/480			MAIN CB 200		BUS AMPS 200	
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION
SIGN ELEVATOR	20/1	1	900			2	20/1	LTG CORE TRACK
SIGN CORE	20/1	3	6200	450				
SIGN NORTH	20/1	5		6200	750	4	20/1	LTG CORE TRACK
LTG CORE ESCALATORS	20/1	7	2200		5000	6	20/1	LTG CORE TRACK
LTG COVE	20/1	9	5000	1476		8	20/1	LTG CORE TRACK
RELAY PANEL	20/1	11				10	20/1	SPARE
LTG OPEN LOBBY	20/1	13	2200			12	20/1	SPARE
LTG OPEN LOBBY	20/1	15		2200		14	20/1	SIGN ELEVATOR
LTG OPEN LOBBY	20/1	17			3000	16	20/1	SPARE
LTG OPEN LOBBY	20/1	19	1200		1125	18	20/1	LTG CORE TRACK
LTG OPEN LOBBY	20/1	21	1125	2400		20	20/1	LTG CORE TRACK
LTG OPEN LOBBY	20/1	23		1625		22	20/1	LTG CORE TRACK
LTG LOBBY	20/01	25	360		3840	24	20/1	LTG CORE TRACK
LTG OPEN LOBBY TRACK	20/1	27		900		26	20/1	SPARE
LTG OPEN LOBBY TRACK	20/1	29			900	28	20/1	SPARE
SPACE		31				30	20/1	SPARE
SPACE		33				32	20/1	SPARE
SPACE		35				34	20/1	SPARE
XMFR AVIS PANEL	90	37				36	20/1	SPARE
	/	39	10204			38	100	SUB FEED PANEL CLHNB
				12885		40		
	3	41			8975	42	3	
CONNECTED KVA PER PHASE			29.4	28.1	25.2	42		NOTES:
CONNECTED AMPS PER PHASE			106.1	101.6	91.0			
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0			
LARGEST MOTOR (25%)			0.0	0.0	0.0			
CODE KVA PER PHASE			29.4	28.1	25.2			
CODE AMPS PER PHASE AT 277V			106.1	101.6	91.0			

**A** PANEL CLHNA SCHEDULE

PANEL CLHNB		VOLTAGE 277/480			MAIN CB 100		BUS AMPS 100	
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION
SPARE	20/1	1	1434			2	20/1	LTG CORR #08
SPARE	20/1	3		1875		4	20/1	LTGRM 433, 434
SPARE	20/1	5			1475	6	20/01	LTGRM 433, 434
SPARE	20/1	7				8	20/1	LTG CORR 410
LTG TRACK	20/1	9	1260		2750	10	20/1	LTGRM 436, 437, 440, 441
LTG TRACK	20/1	11		1770	2780	12		SPACE
LTG TRACK	20/1	13	2750			14		SPACE
LTG TRACK	20/1	15		2750		16		SPACE
LTG TRACK	20/1	17			2375	18		SPACE
LTG TRACK	20/1	19	2375			20		SPACE
LTG TRACK	20/1	21		2375		22		SPACE
LTG TRACK	20/1	23			2375	24		SPACE
LTG TRACK	20/1	25	1875			28		SPACE
LTG TRACK	20/1	27		1875		30		SPACE
SPARE	20/1	29				32		SPACE
SPARE	20/1	31				34		SPACE
SPARE	20/1	33				36		SPACE
RELAY PANEL	20/1	35			1000	38		SPACE
SPACE		37				40		
		39				42		
		41						
CONNECTED KVA PER PHASE			9.7	13.4	10.0			NOTES:
CONNECTED AMPS PER PHASE			35.0	48.4	36.0			
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0			
LARGEST MOTOR (25%)			0.0	0.0	0.0			
CODE KVA PER PHASE			9.7	13.4	10.0			
CODE AMPS PER PHASE AT 277V			35.0	48.4	36.0			

**B** PANEL CLHNB SCHEDULE

GENERAL NOTE: ALL PANELBOARDS ARE EXISTING

16719 East Palisades Blvd., Suite 202  
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KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: NTS

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**PANEL SCHEDULES  
 LEVEL 4  
 NORTH ELECTRICAL ROOM**

Sheet Reference Number:  
**E12.12**  
 Sheet 110 of 130

PANEL: CLHCA	VOLTAGE: 277/480			MAIN CB: 200		BUS AMPS: 200		AIC 13336
	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K	PHASE A	PHASE B	PHASE C	
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION
SIGN ELEVATOR	20/1	1	1350					
SIGN CORE	20/1	3		450			2	20/1 SPARE
LTG COVE	20/1	5			1968		4	20/1 SPARE
SPARE	20/1	7					6	20/1 SPARE
LTG LOBBY	20/1	9		2400			8	20/1 SPARE
LTG LOBBY	20/1	11		27450			10	20/1 LTG TRACK
LTG LOBBY	20/1	13	1920			2400	12	20/1 LTG TRACK
LTG CORE LOBBY	20/1	15	2750				14	20/1 LTG TRACK
LTG CORE LOBBY	20/1	17		3200			16	20/1 LTG TRACK
LTG CORE 403	20/1	19		2750		2400	18	20/1 LTG TRACK
LTG CORE 403	20/1	21		3000		2750	20	20/1 LTG TRACK
SPARE	20/1	23		2750			22	20/1 LTG CORE
LTG OPEN LOBBY TRACK	20/1	25	1200				24	20/1 LTG TRACK
LTG OPEN LOBBY TRACK	20/1	27	2750	1200			26	20/1 LTG TRACK
SPACE		29		1000			28	20/1 RELAY PANEL
SPACE		31					30	20/1 SPARE
SPACE		33					32	20/1 SPARE
SPACE		35					34	20/1 SPARE
SPACE		37	17925				36	20/1 SPARE
SPACE		39					38	125 SUB FED PANEL CLHCB
SPACE		41		12700			40	/
CONNECTED KVA PER PHASE			33.6	56.2	33.4		42	3
CONNECTED AMPS PER PHASE			121.5	202.9	120.4			
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0			
LARGEST MOTOR (25%)			0.0	0.0	0.0			
CODE KVA PER PHASE			33.6	56.2	33.4			
CODE AMPS PER PHASE AT 277V			121.5	202.9	120.4			

Ⓐ PANEL CLHCA SCHEDULE

PANEL: CLHCB	VOLTAGE: 277/480			MAIN CB: MLO		BUS AMPS: 125		AIC 13336
	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K	PHASE A	PHASE B	PHASE C	
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION
LTG CORE TRACK	30/1	1	1800				2	20/1 LTG RM 444, 445
LTG CORE TRACK	30/1	3		5500			4	20/1 LTG RM 444, 445
LTG CORE TRACK	30/1	5		1700		5500	6	20/1 LTG CORRIDOR 410
LTG CORE TRACK	30/1	7			2218		8	SPACE
SPARE	20/1	9					10	SPACE
SPARE	20/1	11					12	SPACE
SPARE	20/1	13					14	SPACE
SPARE	20/1	15					16	SPACE
LTG CORE TRACK	30/1	17			5125		18	SPACE
LTG CORE TRACK	30/1	19	5125				20	SPACE
LTG CORE TRACK	30/1	21		5500			22	SPACE
LTG CORE TRACK	30/1	23			5500		24	SPACE
RELAY PANEL	20/1	25	1000				26	SPACE
SPARE	20/1	27					28	SPACE
SPARE	20/1	29					30	SPACE
SPARE	20/1	31					32	SPACE
SPACE		33					34	SPACE
SPACE		35					36	SPACE
SPACE		37					38	SPACE
SPACE		39					40	SPACE
SPACE		41					42	SPACE
CONNECTED KVA PER PHASE			18.9	12.7	18.3			
CONNECTED AMPS PER PHASE			68.3	45.8	66.2			
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0			
LARGEST MOTOR (25%)			0.0	0.0	0.0			
CODE KVA PER PHASE			18.9	12.7	18.3			
CODE AMPS PER PHASE AT 277V			68.3	45.8	66.2			

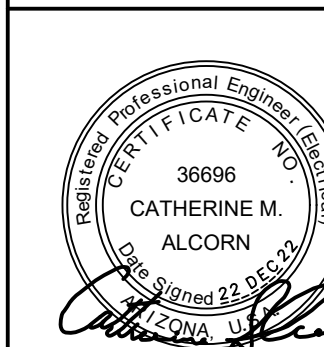
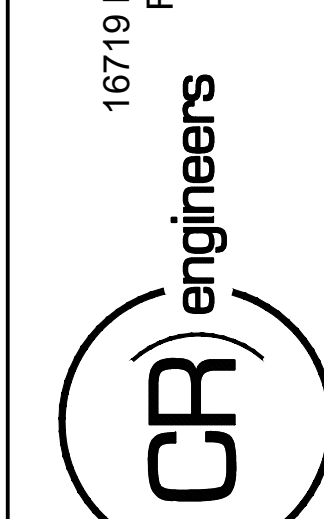
Ⓑ PANEL CLHCB SCHEDULE

PANEL: ECLHC	VOLTAGE: 277/480			MAIN CB: 60		BUS AMPS: 60		
	CB TYPE	BOLT-ON	MOUNTING SURFACE	BRACING 100K	PHASE A	PHASE B	PHASE C	
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION
LTGNORH CORE (EM)	20/1	1	632					
LTG LOBBY (EM)	20/1	3	1625				2	20/1 LTG ELEVATOR
LTG LOBBY (EM)	20/1	5		989			4	20/1 ELEVATOR MEZZANINE
LTG LOBBY (EM)	20/1	7		702			6	SPACE
LTG LOBBY (EM)	20/1	9	989				8	20/1 LTG CSB HERTZ (EM)
LTG EAST CORE (EM)	20/1	11			632		10	SPACE
LTG CENTER CORE (EM)	20/1	13	1170				12	SPACE
LTG COORIDOR 408, 410 (EM)	20/1	15		1509			14	SPACE
LTGRM 432, 443 (EM)	20/1	17			1082		16	SPACE
SPACE		19					18	SPACE
SPACE		21					20	SPACE
SPACE		23					22	SPACE
SPACE		25					24	SPACE
SPACE		27					26	SPACE
SPACE		29					28	SPACE
CONNECTED KVA PER PHASE			4.4	4.3	2.4		30	SPACE
CONNECTED AMPS PER PHASE			15.9	15.4	8.7			
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0			
LARGEST MOTOR (25%)			0.0	0.0	0.0			
CODE KVA PER PHASE			4.4	4.3	2.4			
CODE AMPS PER PHASE AT 277V			15.9	15.4	8.7			

Ⓒ PANEL ECLHC SCHEDULE

GENERAL NOTE: ALL PANELBOARDS ARE EXISTING

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 CONTRACT NO: 144038

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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV15000073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: NTS

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**PANEL SCHEDULES  
 LEVEL 4  
 CENTER ELECTRICAL ROOM**

Sheet Reference Number:  
**E12.13**  
 Sheet 111 of 130

CA:\PROJECTS\2100\21009\_PSH\_RCL\_LED\_Light\_Retrofit\CAD\_SHEETS\_17094\_E12.13\_Panel\_Schedules\_Level 4 - Center\_Electrical\_Room.dwg - Dec 22, 2022 1:30pm

PANEL CLHEA		VOLTAGE: 277/480			MAIN CB: 200			BUS AMPS: 200		
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION		
LTG SIGN ELEV	20/1	1	1350			2	20/1	LTG OPEN LOBBY TRACK		
LTG CORE	20/1	3	2375	1200		4	20/1	LTG OPEN LOBBY TRACK		
LTG EAST	20/1	5		750		6	20/1	LTG OPEN LOBBY TRACK		
LTG - CORE	20/1	7	2640		2750	8	20/1	LTG OPEN LOBBY TRACK		
LTG COVE	20/1	9	2750	1476		10	20/1	LTG OPEN LOBBY TRACK		
SPARE	20/1	11			2750	12	20/1	LTG OPEN LOBBY TRACK		
LTG LOBBY	20/1	13	2200			14	20/1	SPARE		
LTG LOBBY	20/1	15		2400		16	20/1	LTG OPEN LOBBY TRACK		
LTG LOBBY	20/1	17		2750	3870	18	20/1	SPARE		
LTG CORE 404	20/1	19	2100			20	20/1	SPARE		
LTG LOBBY	20/1	21		3000		22	20/1	LTG OPEN LOBBY TRACK		
LTG CORE 404	20/1	23		1625	2400	24	20/1	LTG TRACK		
LTG LOBBY	20/1	25	360		1625	26	20/1	LTG TRACK		
LTG OPIN LOBBY TRACK	20/1	27	2400		2250	28	20/1	LTG TRACK		
LTG OPIN LOBBY TRACK	20/1	29		2400		30	20/1	LTG TRACK		
LTG OPIN LOBBY TRACK	20/1	31	900		2250	32	20/1	SPARE		
LTG OPIN LOBBY TRACK	20/1	33		900		34	20/1	SPARE		
SPACE		35				36	20/1	SPARE		
SPACE		37				38	125	SUB FEED PANEL CLHEB		
SPACE		39	15413			40	/			
SPACE		41		12535		42	3			
CONNECTED KVA PER PHASE			32.5	35.7	11075	27.5	NOTES:			
CONNECTED AMPS PER PHASE			117.3	128.7	99.2					
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0					
LARGEST MOTOR (25%)			0.0	0.0	0.0					
CODE KVA PER PHASE			32.5	35.7	27.5					
CODE AMPS PER PHASE AT 277V			117.3	128.7	99.2					

**A** PANEL CLHEA SCHEDULE

PANEL CLHEB		VOLTAGE: 277/480			MAIN CB: MLO			BUS AMPS: 125		
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	CIRCUIT DESCRIPTION		
SPARE	20/1	1		1134		2	20/1	LTGRM 405, 406, 407, 489, 490		
SPARE	20/1	3			1875	4	20/1	LTGRM 492, 493, 494		
LTG CORE TRACK	20/1	5			1125	6	20/1	LTGRM 492, 493, 494		
LTG CORE TRACK	20/1	7	1125		1775	8	20/1	LTG OFFICE 472-487		
LTG CORE TRACK	20/1	9	1463		1625	10	20/1	LTG OFFICE 472-487		
LTG CORE TRACK	20/1	11			1235	12	20/1	LTG OFFICE 472-487		
LTG CORE TRACK	20/1	13		6125		1500	12	20/1	LTG CORR. 419	
LTG CORE TRACK	20/1	15		566		14	20/1	LTG CORR. 445, RM 470		
LTG CORE TRACK	20/1	17		6125		16	20/1	LTG CORR. 469, 471, 481, 419		
LTG CORE TRACK	20/1	19	5000		5000	18		SPACE		
SPARE	20/1	21				20		SPACE		
SPARE	20/1	23				22		SPACE		
SPARE	20/1	25				24		SPACE		
SPARE	20/1	27				26		SPACE		
SPARE	20/1	29				28		SPACE		
SPARE	20/1	31				30		SPACE		
SPACE		33				32		SPACE		
SPACE		35				34		SPACE		
SPACE		37				36		SPACE		
SPACE		39				38		SPACE		
SPACE		41				40		SPACE		
CONNECTED KVA PER PHASE			15.4	12.5	11.1	42	NOTES:			
CONNECTED AMPS PER PHASE			55.6	45.3	40.0					
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0					
LARGEST MOTOR (25%)			0.0	0.0	0.0					
CODE KVA PER PHASE			15.4	12.5	11.1					
CODE AMPS PER PHASE AT 277V			55.6	45.3	40.0					

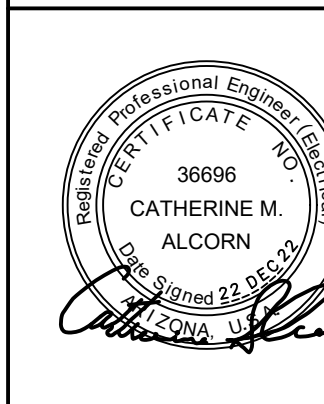
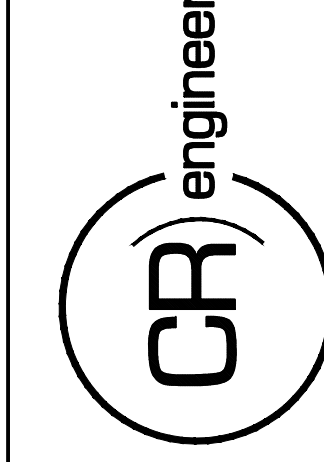
**B** PANEL CLHEB SCHEDULE

PANEL ECLHE		VOLTAGE: 277/480			MAIN CB: 60			BUS AMPS: 60		
CIRCUIT DESCRIPTION	BKR	CIRCUIT	PHASE A	PHASE B	PHASE C	CIRCUIT	BKR	AIC 1225	CIRCUIT DESCRIPTION	
LTG CORE LOBBY (EM)	20/1	1	2150			2	40			
LTG CORE LOBBY (EM)	20/1	3		2565		4	/			
LTG CORE LOBBY (EM)	20/1	5			1320	6	3			
LTG CORE LOBBY (EM)	20/1	7	1200			8		SPACE		
SPARE	20/1	9				10		SPACE		
LTG CORR. 406, 407, 419, 445, 469	20/1	11			2860	12		SPACE		
SPARE	20/1	13				14		SPACE		
	20/1	15		3187		16		SPACE		
LTG OFFICE 472-488	20/1	17			3410	18		SPACE		
SPACE		19				20		SPACE		
SPACE		21				22		SPACE		
SPACE		23				24		SPACE		
SPACE		25				26		SPACE		
SPACE		27				28		SPACE		
SPACE		29				30		SPACE		
CONNECTED KVA PER PHASE			3.3	5.8	7.6	NOTES:				
CONNECTED AMPS PER PHASE			12.0	20.8	27.4					
25% OF CONTINUOUS & LIGHTING LOAD (KVA)			0.0	0.0	0.0					
LARGEST MOTOR (25%)			0.0	0.0	0.0					
CODE KVA PER PHASE			3.3	5.8	7.6					
CODE AMPS PER PHASE AT 277V			12.0	20.8	27.4					

**C** PANEL ECLHE SCHEDULE

GENERAL NOTE: ALL PANELBOARDS ARE EXISTING

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NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV15000073-1

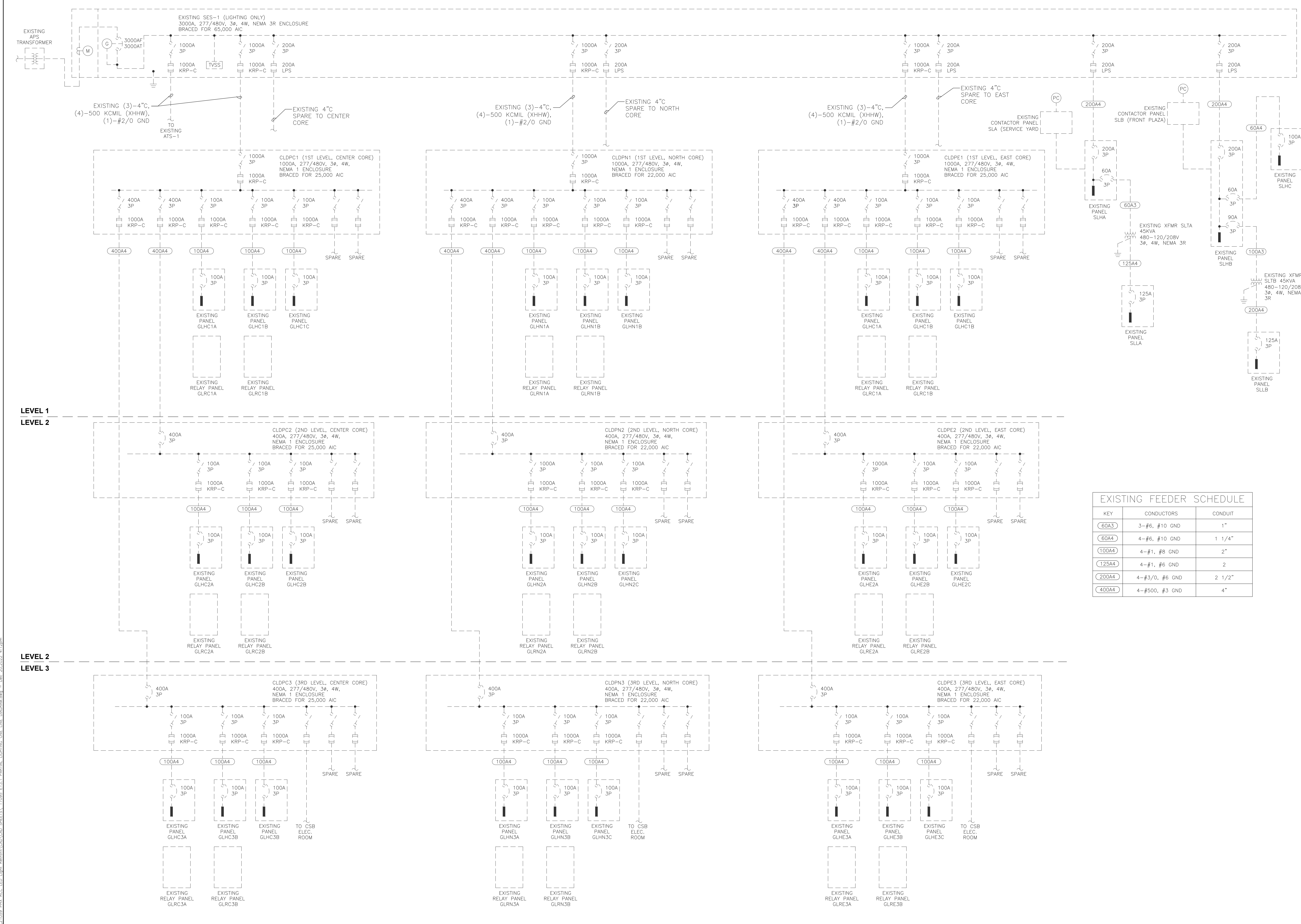
Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: NTS

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**PANEL SCHEDULES  
 LEVEL 4  
 EAST ELECTRICAL ROOM**

Sheet Reference Number:  
**E12.14**  
 Sheet 112 of 130

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EXISTING FEEDER SCHEDULE		
KEY	CONDUCTORS	CONDUIT
60A3	3-#6, #10 GND	1"
60A4	4-#6, #10 GND	1 1/4"
100A4	4-#1, #8 GND	2"
125A4	4-#1, #6 GND	2
200A4	4-#3/0, #6 GND	2 1/2"
400A4	4-#500, #3 GND	4"

LEVEL 1  
LEVEL 2  
LEVEL 2  
LEVEL 3

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**CR engineers**

Professional Engineer  
36686  
CATHERINE M. ALCONR  
State of Arizona  
No. 2004

KIVA NO:  
SDEV NO:  
CONTRACT NO:

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NO.	REVISIONS / SUBMISSIONS	DATE

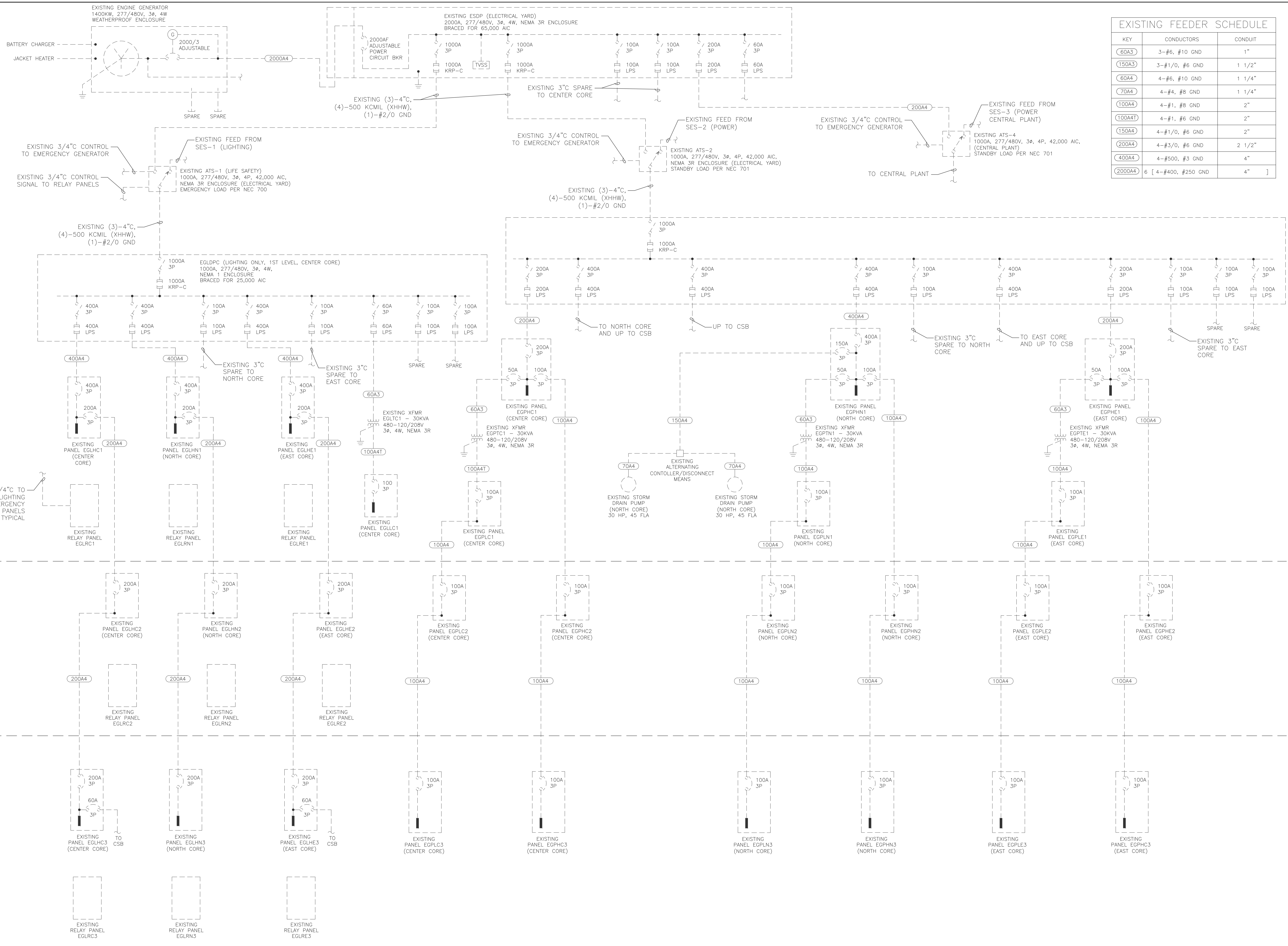
**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

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Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: NTS

Sheet Reference Number:  
**E13.1**

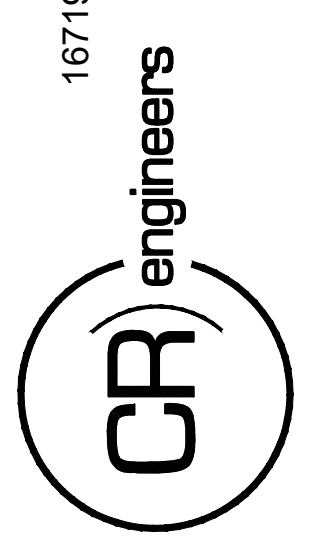
Sheet 113 of 130

**A PARTIAL LIGHTING ONE LINE DIAGRAM**  
EXISTING FOR INFORMATION ONLY



EXISTING FEEDER SCHEDULE		
KEY	CONDUCTORS	CONDUIT
60A3	3-#6, #10 GND	1"
150A3	3-#1/0, #6 GND	1 1/2"
60A4	4-#6, #10 GND	1 1/4"
70A4	4-#4, #8 GND	1 1/4"
100A4	4-#1, #8 GND	2"
100A4T	4-#1, #6 GND	2"
150A4	4-#1/0, #6 GND	2"
200A4	4-#3/0, #6 GND	2 1/2"
400A4	4-#5/0, #3 GND	4"
2000A4	6 [ 4-#400, #250 GND ]	4"

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PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-238 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSBIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

Designed by: RD  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: NTS

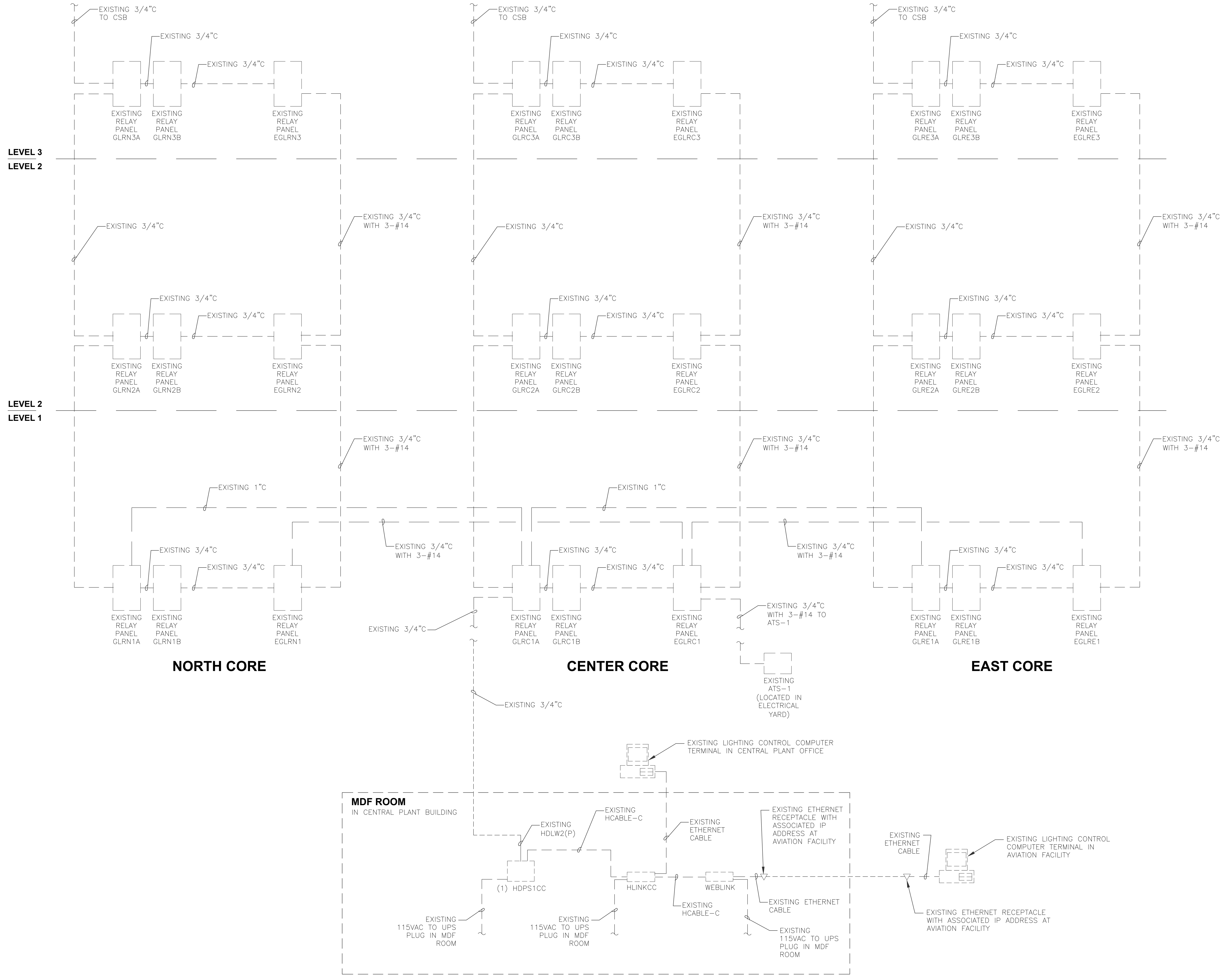
PHSIA RENTAL CAR LED LIGHT RETROFIT  
**PARTIAL EMERGENCY ONE LINE DIAGRAM**

Sheet Reference Number:  
**E13.2**  
 Sheet 114 of 130

**PARTIAL EMERGENCY ONE LINE DIAGRAM**  
 EXISTING FOR INFORMATION ONLY

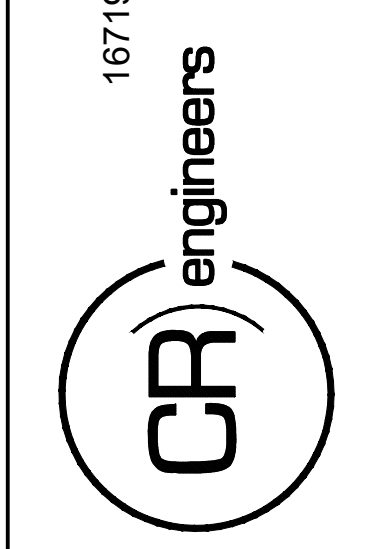
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CA:\PROJECTS\21000\21009\_PHSIA\_Rent\_Car\_LED\_Line\_Riser\_Control\_Data\_Line\_Riser\_Diagram.dwg - Dec 20, 2022 4:14pm



**(A) EXISTING LIGHTING CONTROL DATA LINE RISER DIAGRAM**  
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CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

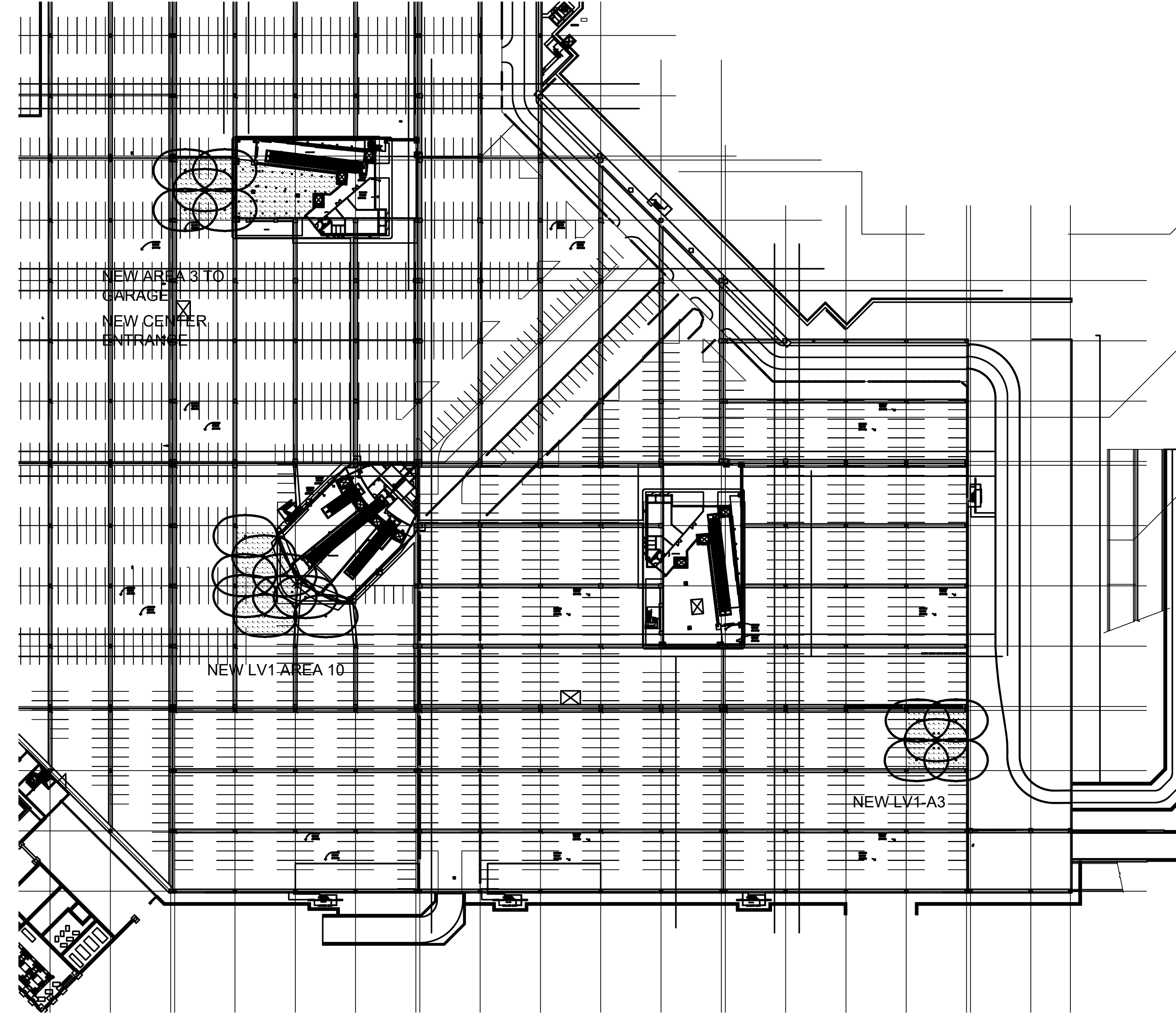
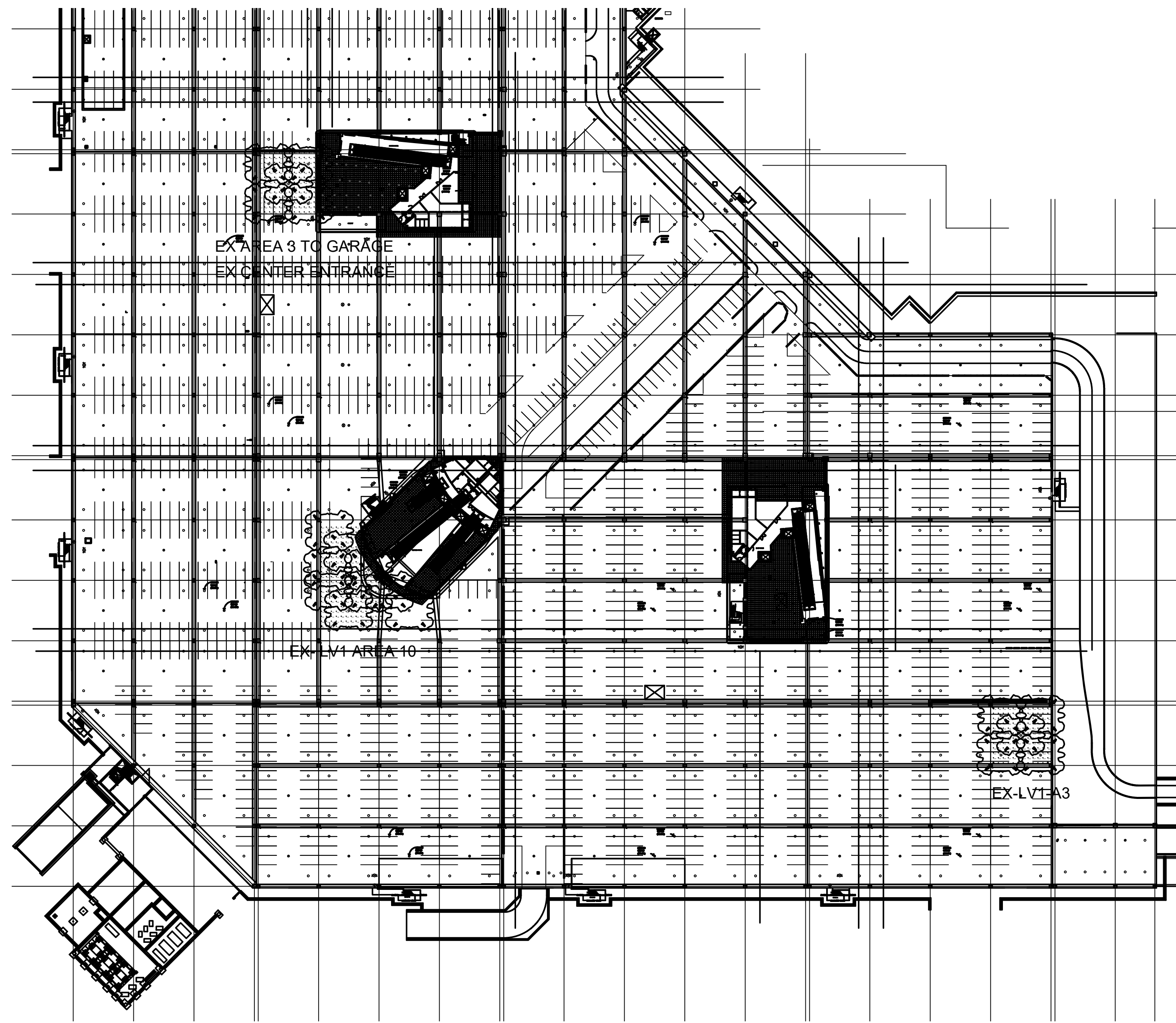
NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: RD  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: NTS

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**EXISTING LIGHTING CONTROL DATA LINE RISER DIAGRAM**

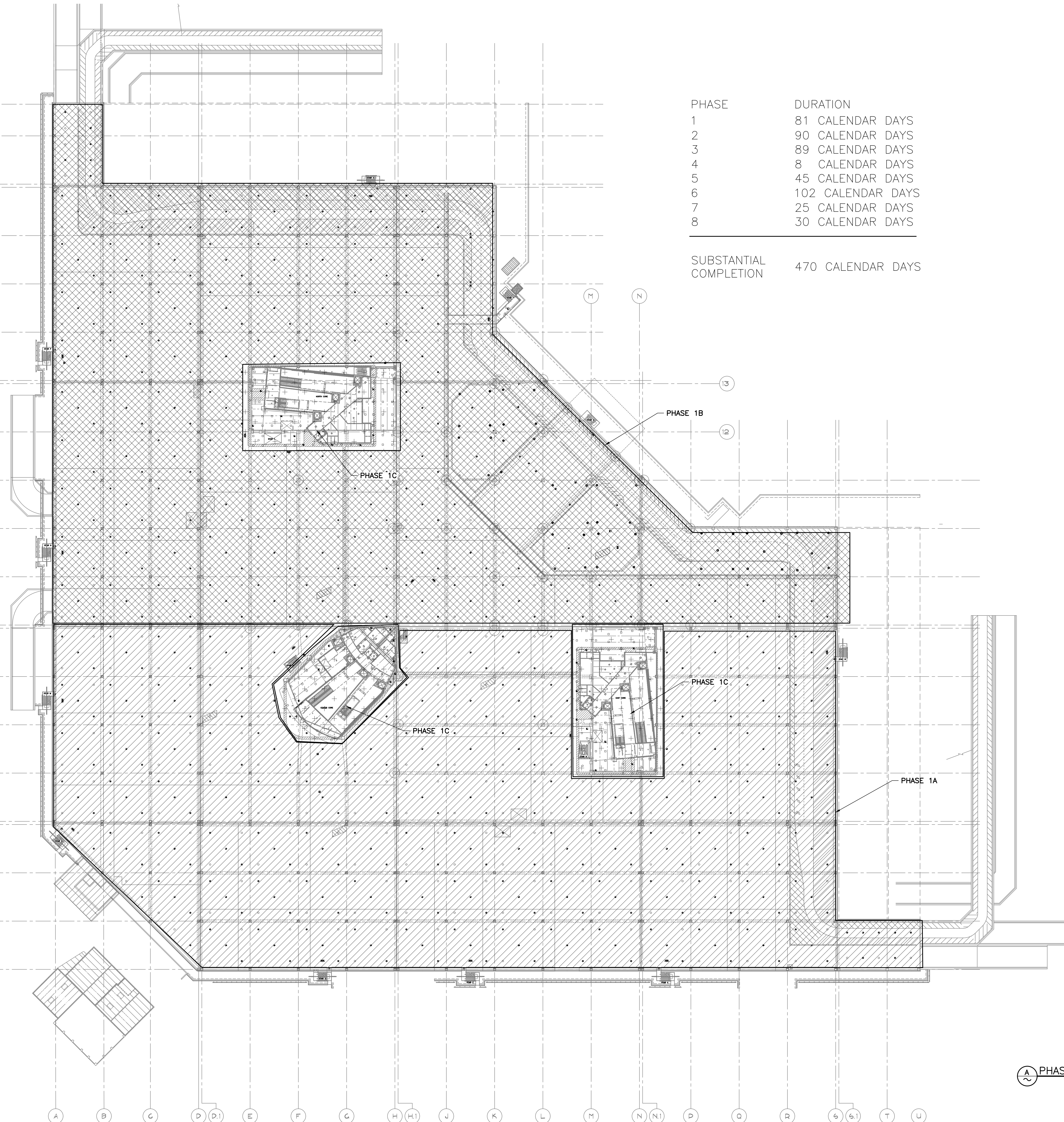




Statistics						
Description	Symbol	Max	Min	Max/Min	Avg/Min	Avg
EX AREA 3 TO GARAGE	+	18.2 fc	0.5 fc	36.4:1	15.0:1	7.5 fc
EX CENTER ENTRANCE	+	8.2 fc	0.6 fc	13.7:1	6.0:1	3.6 fc
EX-LV1 AREA 10	+	7.8 fc	1.9 fc	4.1:1	1.9:1	3.6 fc
EX-LV1-A3	+	7.9 fc	1.4 fc	5.6:1	2.4:1	3.4 fc
NEW AREA 3 TO GARAGE	+	55.1 fc	3.5 fc	15.7:1	9.2:1	32.2 fc
NEW CENTER ENTRANCE	+	16.6 fc	1.0 fc	16.6:1	9.0:1	9.0 fc
NEW LV1 AREA 10	+	13.1 fc	4.3 fc	3.0:1	2.1:1	9.0 fc
NEW LV1-A3	+	15.3 fc	4.0 fc	3.8:1	2.2:1	8.8 fc

C:\PROJECTS\21000\21009\_PHS\_RCC\_LED\_Light\_Retrofit\CAD\_SHEETS\17094\_E16.1\_PHOTOMETRICS.dwg - Dec 21, 2022, 8:55am

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PHASE	DURATION
1	81 CALENDAR DAYS
2	90 CALENDAR DAYS
3	89 CALENDAR DAYS
4	8 CALENDAR DAYS
5	45 CALENDAR DAYS
6	102 CALENDAR DAYS
7	25 CALENDAR DAYS
8	30 CALENDAR DAYS

SUBSTANTIAL COMPLETION 470 CALENDAR DAYS

**CONTRACTOR ACCESS & STAGING NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS OWN EQUIPMENT. CONTRACTOR MAY INSTALL TEMPORARY FENCING AROUND HIS STAGING AREA AT HIS OWN EXPENSE, (NPI).

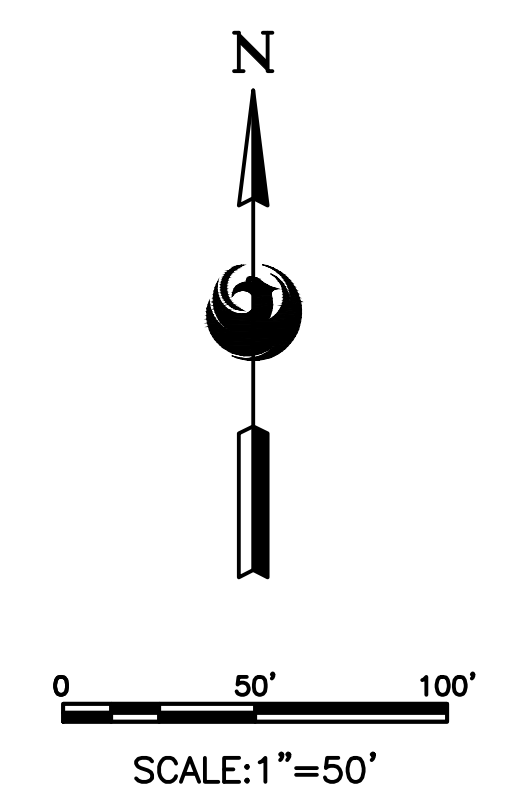
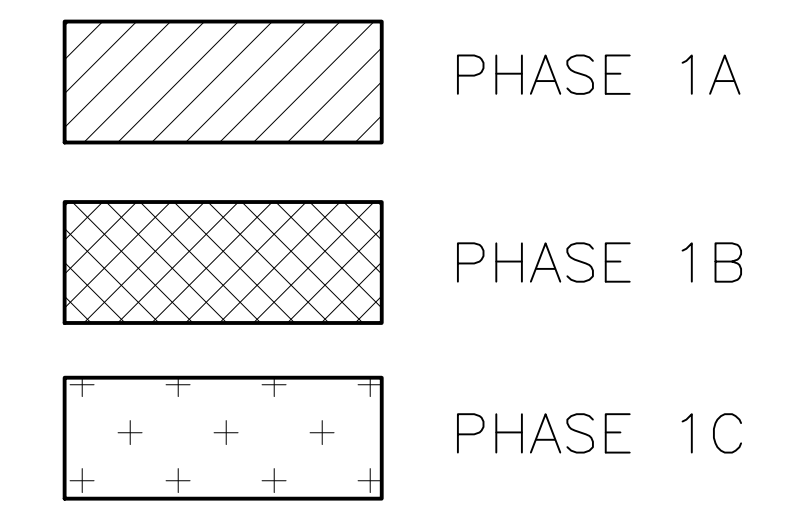
**PHASING NOTES**

- ALL DURATIONS ARE CALENDAR DAYS.
- ALL PHASES MUST BE CONSTRUCTED SEQUENTIALLY. NO PHASES SHALL BE CONSTRUCTED CONCURRENTLY.
- CONTRACTOR SHALL HOLD SAFETY BRIEFINGS WITH RCC STAFF, PRIOR TO THE START OF EACH PHASE.
- PHASING LIMITS MAY NOT NECESSARILY MATCH EXACT CONSTRUCTION AREAS/EXTENTS. PHASING LIMITS ARE MEANT TO DEPICT THE OUTERMOST LIMITS FOR CONSTRUCTION ACTIVITIES WITHIN THE RESPECTIVE PHASE.
- THE CONSTRUCTION PHASING, AS SHOWN IN THESE PLANS, IS FOR GENERAL GUIDANCE ONLY. IT IS THE INTENT OF THE PROJECT TO LIMIT CONTRACTOR CONSTRUCTION ACTIVITIES/OPERATION TO CERTAIN AREAS OF THE BUILDING/GARAGE SO THAT OPERATIONS CAN BE MAINTAINED AS MUCH AS POSSIBLE. THE CONTRACTOR MAY REQUEST A CHANGE TO THE CONSTRUCTION PHASING PLANS PROVIDED THE CONTRACTOR CAN DEMONSTRATE LOCALIZED CONSTRUCTION ACTIVITIES THAT WILL LIMIT INTERFERENCE WITH OPERATIONS. ANY REQUEST FOR MODIFYING THE CONSTRUCTION PHASING PLANS WILL REQUIRE APPROVAL FROM RCC STAFF AND THE ENGINEER
- CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO 9PM-6AM UNLESS DIRECTED OTHERWISE BY OWNER.
- CONTRACTOR SHALL RE-ENERGIZE ALL CIRCUITS AT THE END OF EACH WORK SHIFT.
- COORDINATE CONSTRUCTION STORAGE AND AREA BARRICADES WITH OWNER AND PSM2.

PHASE	DURATION
1A	40 CALENDAR DAYS
1B	32 CALENDAR DAYS
1C	9 CALENDAR DAYS

PHASE 1 SUBSTANTIAL COMPLETION 81 CALENDAR DAYS 58 WORKING DAYS

1112 TOTAL FIXTURES – 20 INSTALLED PER DAY



**PHASE 1 LIGHTING PHASE PLAN – LEVEL 2**  
2 SERIES SHEETS

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com

**CR engineers**

Professional Engineer  
30696  
CATHERINE M. ALCOORN  
State of Arizona

KIVA NO.:  
SDEV NO.:  
CONTRACT NO.: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28 THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR LED LIGHT RETROFIT  
AV1500073-1

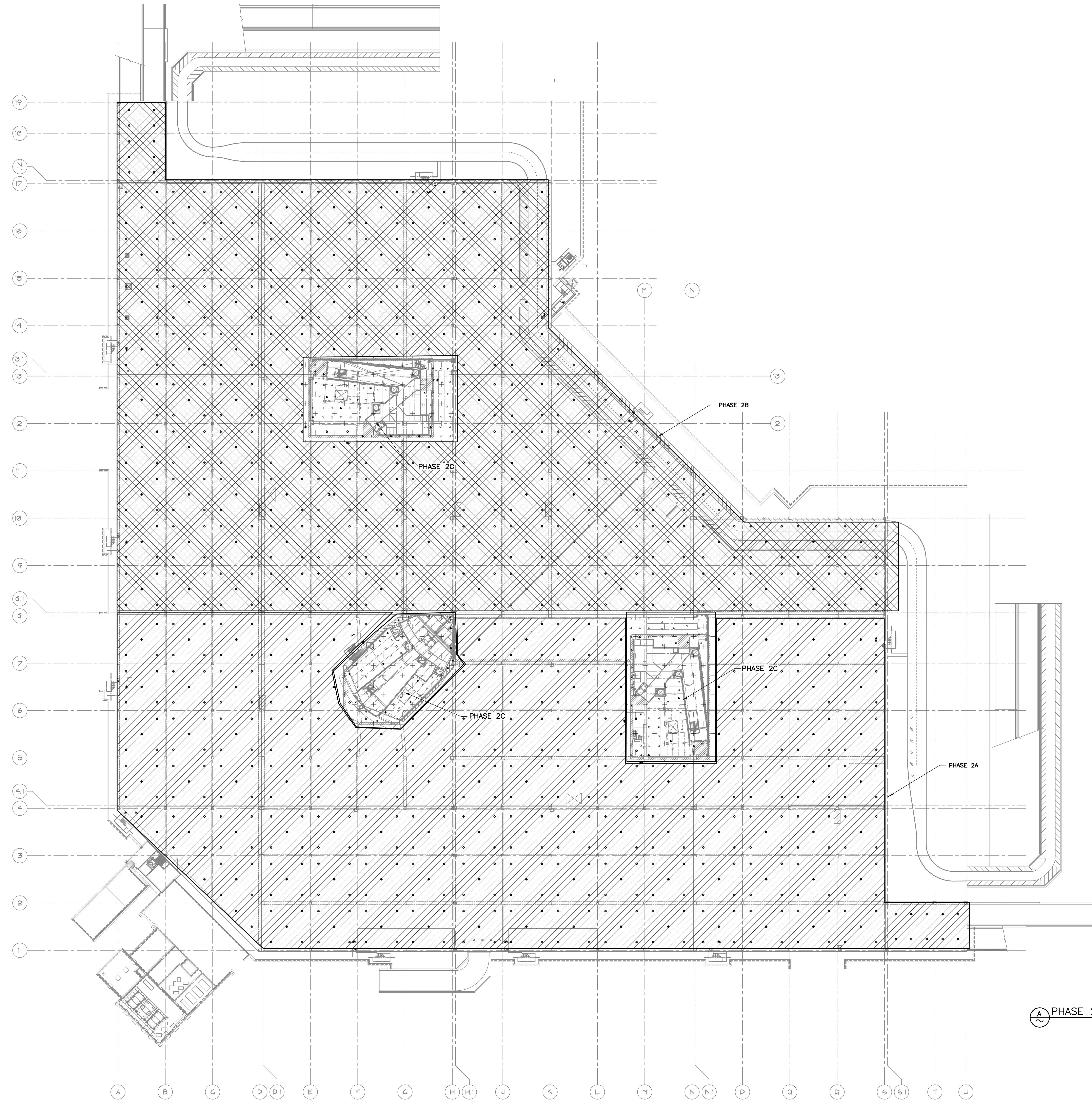
Designed by: KEL  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

**LIGHTING PHASE PLAN**  
LEVEL 2

Sheet Reference Number:  
**PH1.0**

Sheet 118 of 130

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**CONTRACTOR ACCESS & STAGING NOTES**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS OWN EQUIPMENT. CONTRACTOR MAY INSTALL TEMPORARY FENCING AROUND HIS STAGING AREA AT HIS OWN EXPENSE, (NPI).

**PHASING NOTES**

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9. SEE SHEET PH1.0 FOR COMPLETE PROJECT PHASE DURATION.

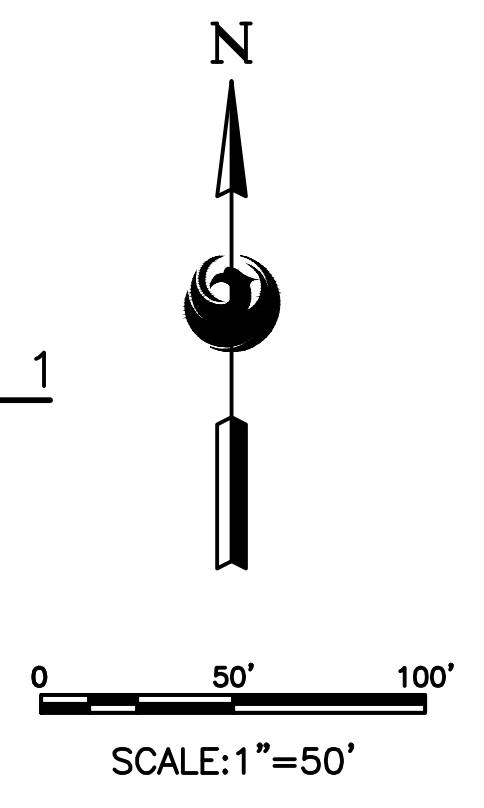
PHASE	DURATION
2A	44 CALENDAR DAYS
2B	37 CALENDAR DAYS
2C	9 CALENDAR DAYS

PHASE 2  
SUBSTANTIAL COMPLETION 90 CALENDAR DAYS  
65 WORKING DAYS

1168 TOTAL FIXTURES -  
20 INSTALLED PER DAY

	PHASE 2A
	PHASE 2B
	PHASE 2C

**PHASE 2 LIGHTING PHASE PLAN - LEVEL 1**  
1 SERIES SHEETS



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 Fountain Hills, AZ 85268  
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 Fax: (480) 816-5540  
 www.creng.com

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KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038

NO.	REVISIONS / SUBMISSIONS	DATE

Designed by: KEL  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHOENIX AVIATION DEPARTMENT  
 CITY OF PHOENIX  
 PSHIA RENTAL CAR LED LIGHT RETROFIT  
 AV15000073-1

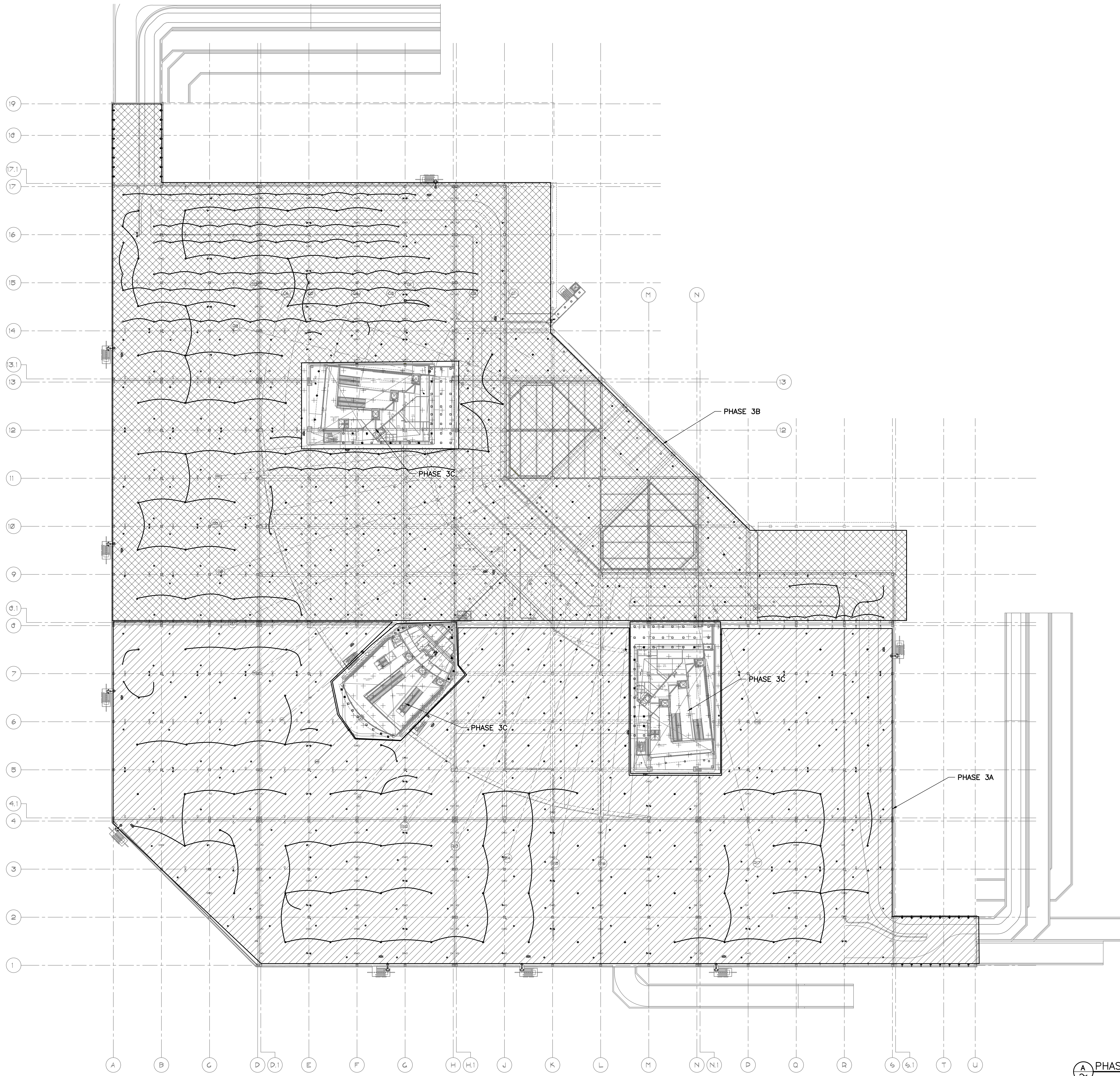
PHOENIX RENTAL CAR LED LIGHT RETROFIT

LIGHTING PHASE PLAN  
 LEVEL 1

Sheet Reference Number:

PH2.0

Sheet 119 of 130



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8. COORDINATE CONSTRUCTION STORAGE AND AREA BARRICADES WITH OWNER AND PSM2.
9. SEE SHEET PH1.0 FOR COMPLETE PROJECT PHASE DURATION.

PHASE	DURATION
3A	32 CALENDAR DAYS
3B	48 CALENDAR DAYS
3C	9 CALENDAR DAYS

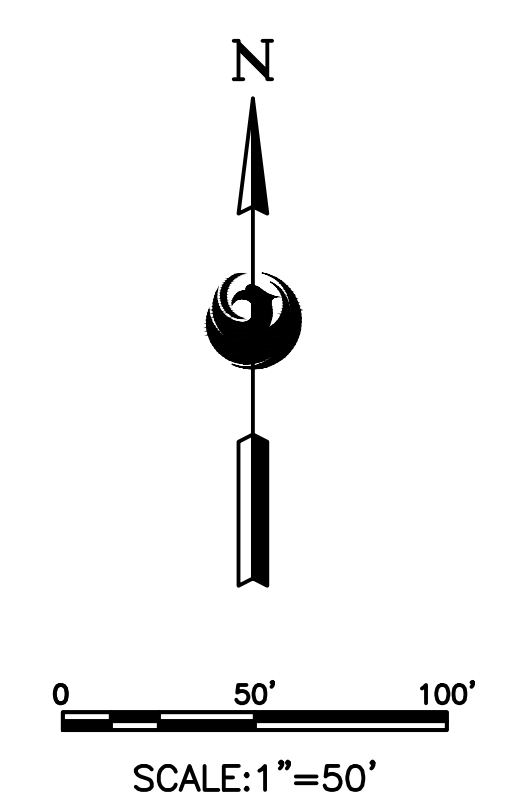
PHASE 3	89 CALENDAR DAYS
SUBSTANTIAL COMPLETION	64 WORKING DAYS

1048 FIXTURES INSTALLED  
533 FIXTURES DEMO

20 FIXTURES INSTALLED PER DAY,  
52 TOTAL DAYS

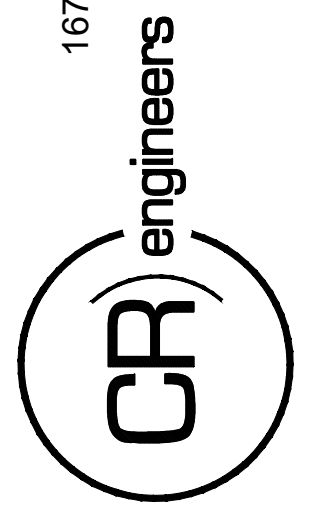
44 FIXTURES DEMO PER DAY, 12  
TOTAL DAYS

	PHASE 3A
	PHASE 3B
	PHASE 3C



**PHASE 3 LIGHTING PHASE PLAN - LEVEL 3**  
3 SERIES SHEETS

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com



KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: KEL  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

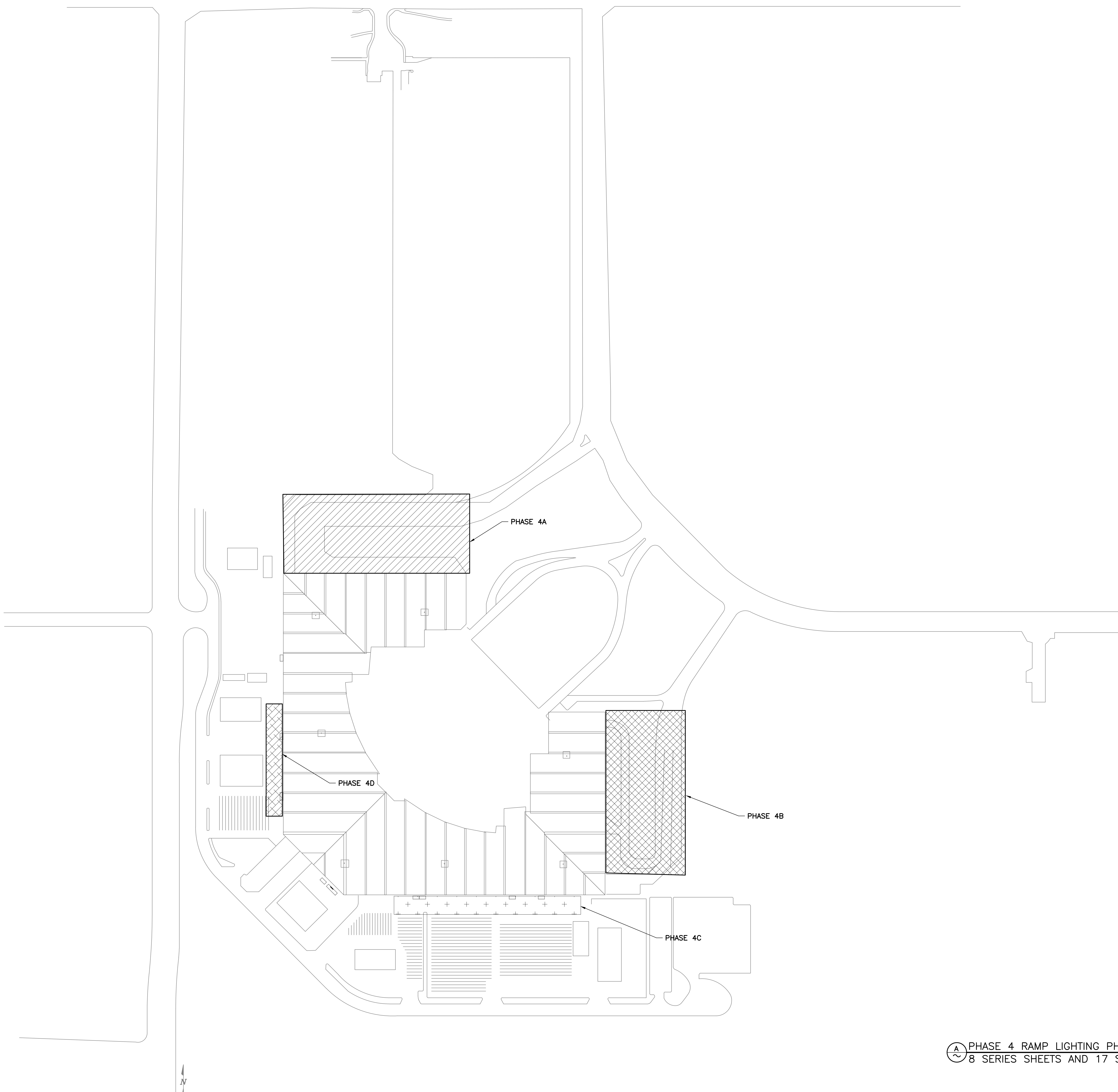
**LIGHTING PHASE PLAN**  
LEVEL 3

Sheet Reference Number:  
**PH3.0**  
Sheet 120 of 130

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**CONTRACTOR ACCESS & STAGING NOTES**

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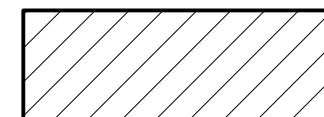

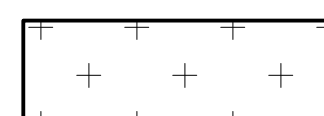
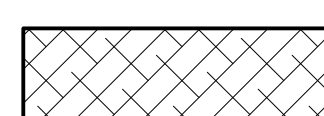
**PHASING NOTES**

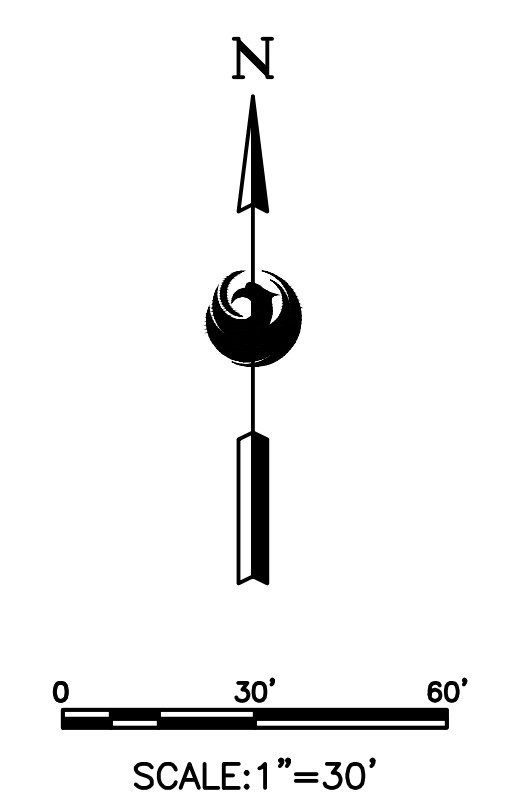
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9. SEE SHEET PH1.0 FOR COMPLETE PROJECT PHASE DURATION.

PHASE	DURATION
4A	2 CALENDAR DAYS
4B	2 CALENDAR DAYS
4C	2 CALENDAR DAYS
4D	2 CALENDAR DAYS

PHASE 4  
 SUBSTANTIAL 8 CALENDAR DAYS  
 COMPLETION 6 WORKING DAYS

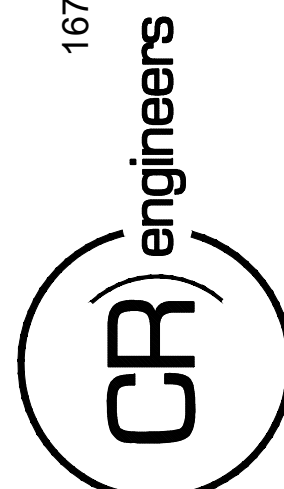
351 TOTAL FIXTURES  
 58.5 INSTALLED PER DAY  
 9 TOTAL WISCAPE MODULES

	PHASE 4A
	PHASE 4B
	PHASE 4C
	PHASE 4D



**PHASE 4 RAMP LIGHTING PHASE PLAN**  
 8 SERIES SHEETS AND 17 SERIES SHEETS

16719 East Palisades Blvd., Suite 202  
 Fountain Hills, AZ 85268  
 Phone: (480) 816-5541  
 Fax: (480) 816-5540  
 www.creng.com



PROFESSIONAL ENGINEER  
 STATE OF ARIZONA  
 36966  
 CATHERINE M.  
 ALCORN

KIVA NO:  
 SDEV NO:  
 CONTRACT NO:

PER CITY OF PHOENIX CITY  
 CODE CHAPTER 2 SECTION  
 2-28. THESE PLANS ARE FOR  
 OFFICIAL USE ONLY AND MAY  
 NOT BE SHARED WITH OTHERS  
 EXCEPT AS REQUIRED TO  
 FULFILL CONTRACTORS OBLIGATION  
 WITH THE CITY OF PHOENIX.

CONTRACT NO:  
 144038

NO.	REVISIONS /	SUBMISSIONS	DATE

PHX DVI EYE  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

Designed by: KEL  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHOENIX RENTAL CAR LED LIGHT RETROFIT

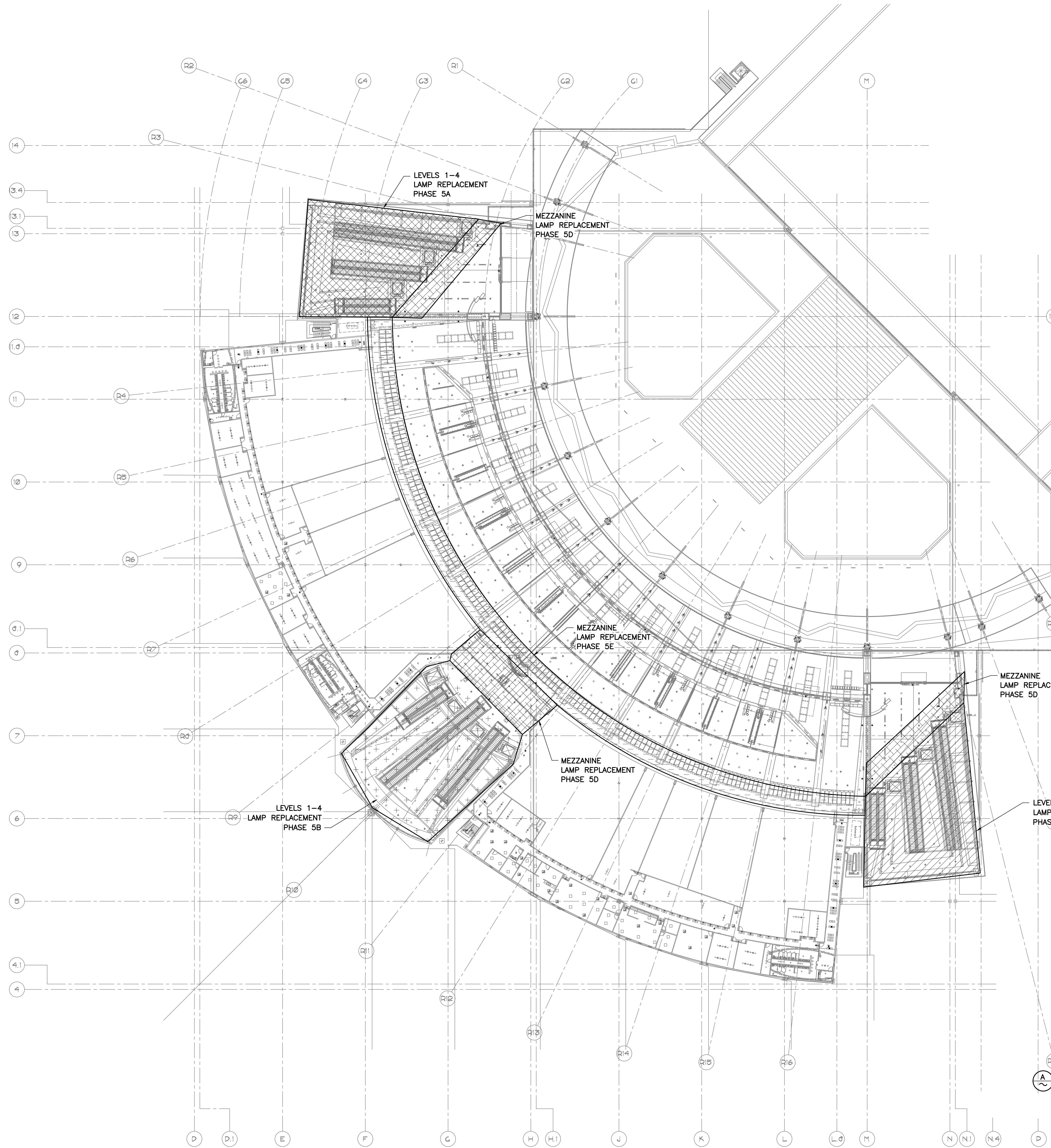
**RAMP LIGHTING PHASE PLAN**

Sheet Reference Number:

**PH4.0**

PH4.0

Sheet 121 of 130



**CONTRACTOR ACCESS & STAGING NOTES**

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**PHASING NOTES**

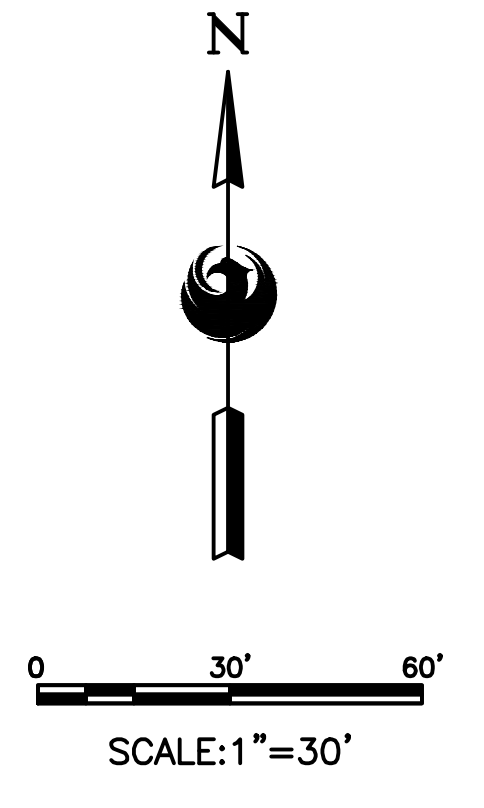
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9. SEE SHEET PH1.0 FOR COMPLETE PROJECT PHASE DURATION.

PHASE	DURATION
5A	9 CALENDAR DAYS
5B	9 CALENDAR DAYS
5C	9 CALENDAR DAYS
5D	9 CALENDAR DAYS
5E	9 CALENDAR DAYS

PHASE 5  
 SUBSTANTIAL COMPLETION 45 CALENDAR DAYS  
 32 WORKING DAYS

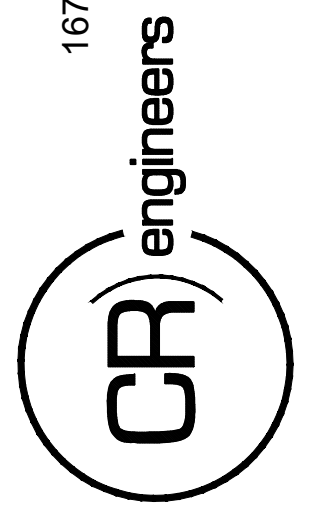
580 TOTAL FIXTURES –  
 18 INSTALLED PER DAY

	PHASE 5A
	PHASE 5B
	PHASE 5C
	PHASE 5D
	PHASE 5E



**PHASE 5 LIGHTING PHASE PLAN**  
 5 SERIES SHEETS AND 6 SERIES SHEETS

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KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

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NO.	REVISIONS / SUBMISSIONS	DATE

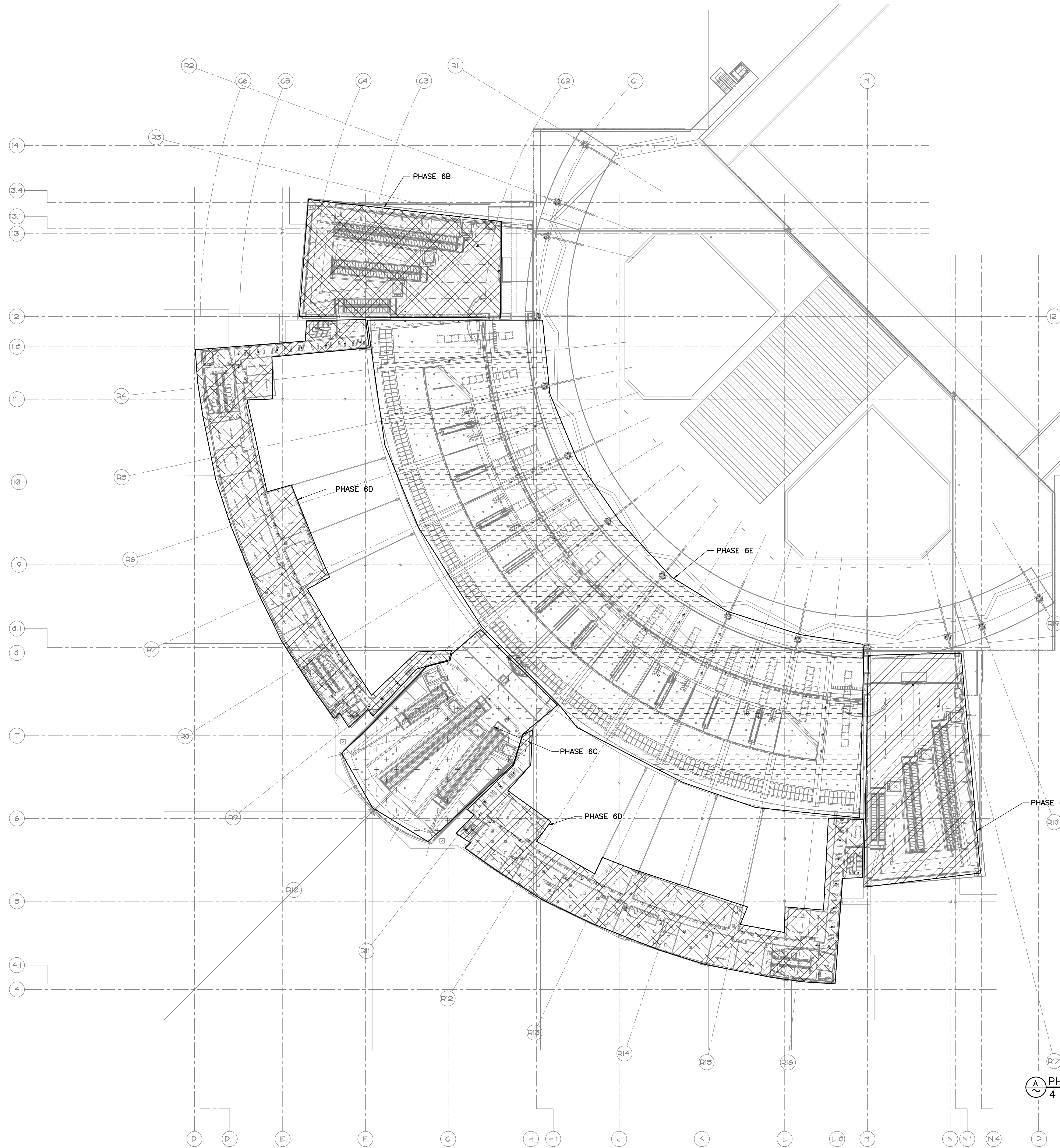
**PHX DVT EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV1500073-1

Designed by: KEL  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PH5.0  
**LIGHTING PHASE PLAN**  
 ALL LEVELS CSB

Sheet Reference Number:  
**PH5.0**

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**CONTRACTOR ACCESS & STAGING NOTES**

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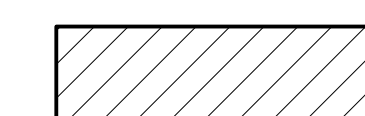
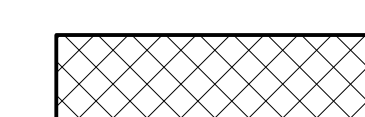
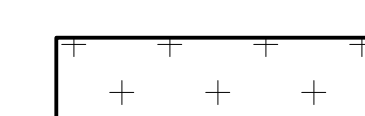

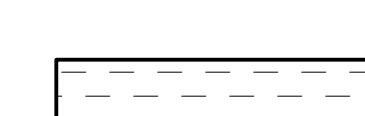
**PHASING NOTES**

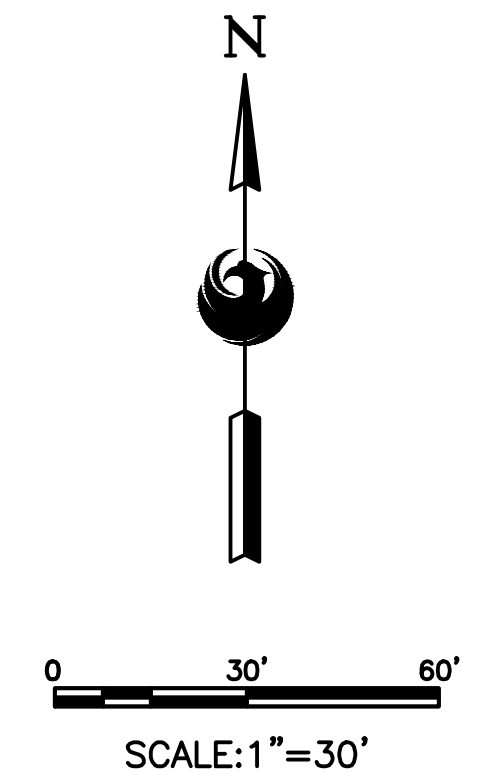
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5. THE CONSTRUCTION PHASING, AS SHOWN IN THESE PLANS, IS FOR GENERAL GUIDANCE ONLY. IT IS THE INTENT OF THE PROJECT TO LIMIT CONTRACTOR CONSTRUCTION ACTIVITIES/OPERATION TO CERTAIN AREAS OF THE BUILDING/GARAGE SO THAT OPERATIONS CAN BE MAINTAINED AS MUCH AS POSSIBLE. THE CONTRACTOR MAY REQUEST A CHANGE TO THE CONSTRUCTION PHASING PLANS PROVIDED THE CONTRACTOR CAN DEMONSTRATE LOCALIZED CONSTRUCTION ACTIVITIES THAT WILL LIMIT INTERFERENCE WITH OPERATIONS. ANY REQUEST FOR MODIFYING THE CONSTRUCTION PHASING PLANS WILL REQUIRE APPROVAL FROM RCC STAFF AND THE ENGINEER.
6. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO 9PM-6AM UNLESS DIRECTED OTHERWISE BY OWNER.
7. CONTRACTOR SHALL RE-ENERGIZE ALL CIRCUITS AT THE END OF EACH WORK SHIFT.
8. COORDINATE CONSTRUCTION STORAGE AND AREA BARRICADES WITH OWNER AND PSM2.
9. SEE SHEET PH1.0 FOR COMPLETE PROJECT PHASE DURATION.

PHASE	DURATION
6A	9 CALENDAR DAYS
6B	9 CALENDAR DAYS
6C	13 CALENDAR DAYS
6D	28 CALENDAR DAYS
6E	43 CALENDAR DAYS

PHASE 6 SUBSTANTIAL COMPLETION 102 CALENDAR DAYS 85 WORKING DAYS

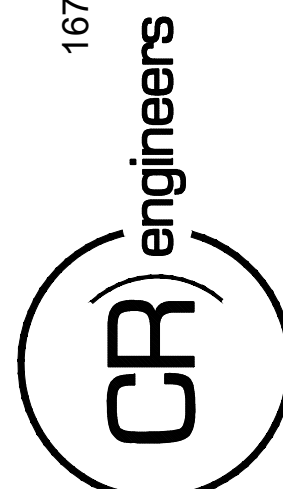
1944 TOTAL FIXTURES – 22.8 INSTALLED PER DAY


-  PHASE 6A
-  PHASE 6B
-  PHASE 6C
-  PHASE 6D
-  PHASE 6E



**PHASE 6 LIGHTING PHASE PLAN**  
4 SERIES SHEETS AND 7 SERIES SHEETS

16719 East Palisades Blvd., Suite 202  
 Fountain Hills, AZ 85268  
 Phone: (480) 816-5541  
 Fax: (480) 816-5540  
 www.creng.com






KIVA NO:
SDEV NO:
CONTRACT NO:

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-238, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO THE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.
144038

NO.	REVISIONS / SUBMISSIONS	DATE



CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
**AV1500073-1**

Designed by: KEL  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

PHOENIX RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PHASE PLAN**  
 ALL LEVELS CSB

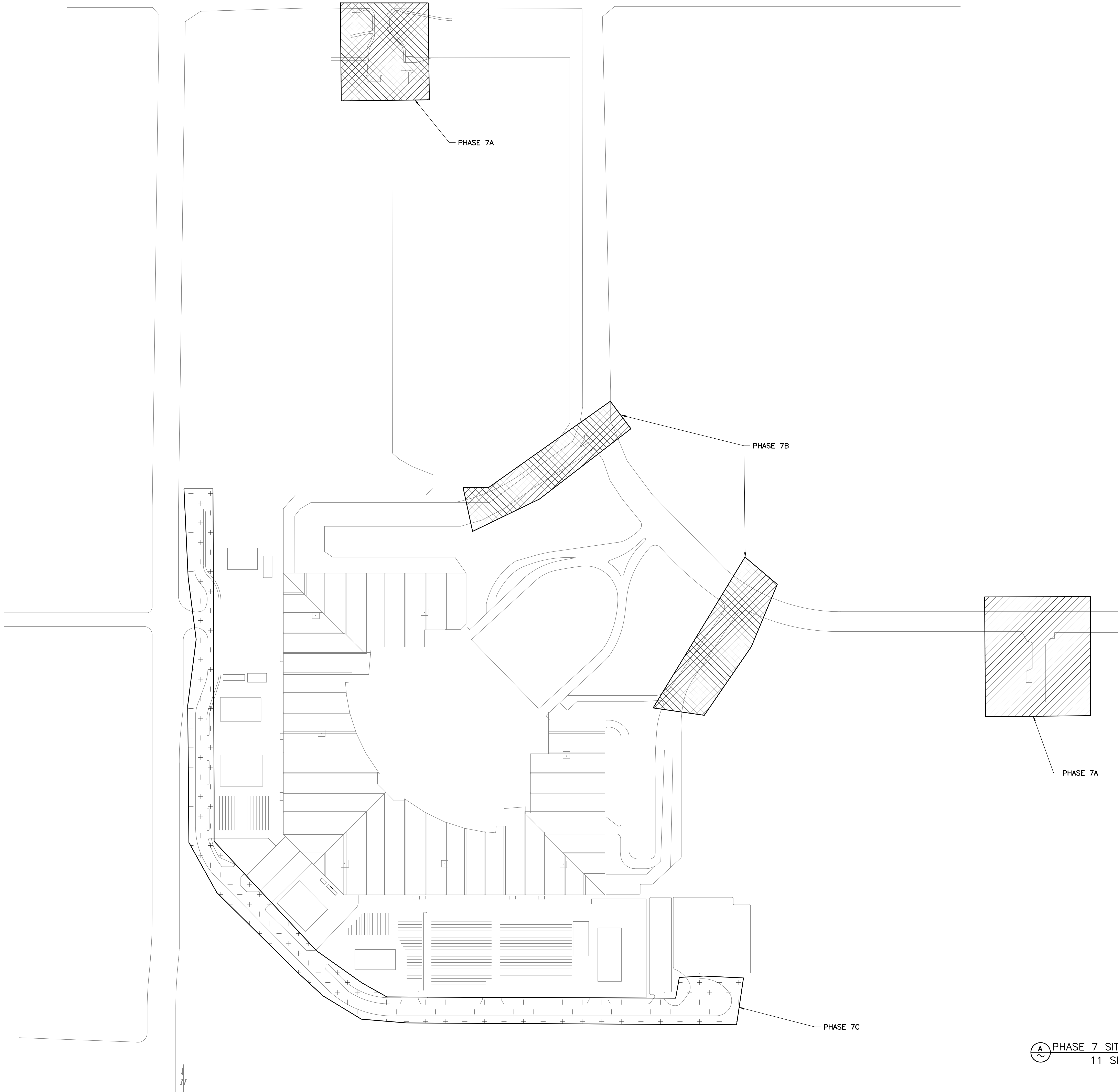
Sheet Reference Number:

**PH6.0**

Sheet 123 of 130

CA:\PROJECTS\21000\21009\_PSH\_RCC\_LED\_Light\_Retrofit\CAD\_SHEETS\17004\_PSH6.0\_LIGHTING\_PHASE\_PLAN - LEVEL 4\_CSB\_4(ADD\_ALTERNATE\_3).dwg - Dec 21, 2022 9:02am

C:\PROJECTS\21000\21009\_PSH\_RCC\_LED\_Light\_Retrofit\CAD\_SHEETS\17094\_P7.0\_SITE\_LIGHTING\_PHASE\_PLAN.dwg - Dec. 21, 2022 8:03am



**CONTRACTOR ACCESS & STAGING NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS OWN EQUIPMENT. CONTRACTOR MAY INSTALL TEMPORARY FENCING AROUND HIS STAGING AREA AT HIS OWN EXPENSE, (NPI).

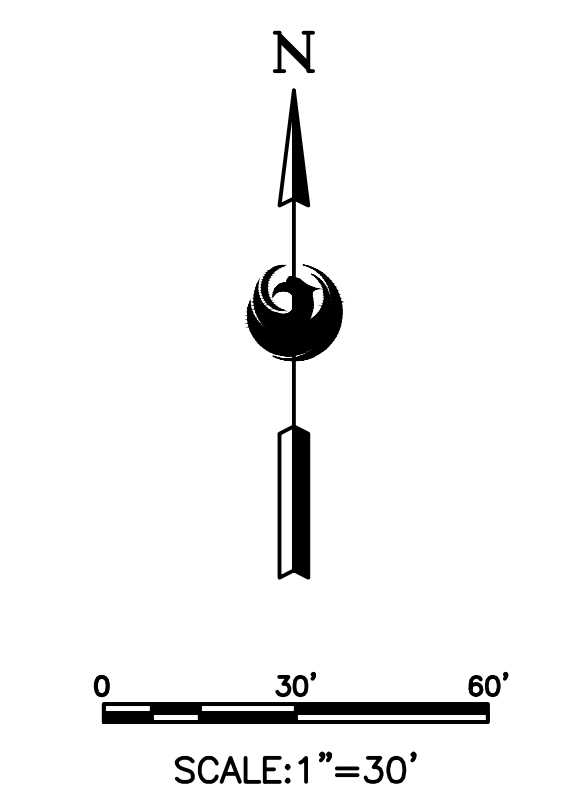
- PHASING NOTES**
- ALL DURATIONS ARE CALENDAR DAYS.
  - ALL PHASES MUST BE CONSTRUCTED SEQUENTIALLY. NO PHASES SHALL BE CONSTRUCTED CONCURRENTLY.
  - CONTRACTOR SHALL HOLD SAFETY BRIEFINGS WITH RCC STAFF, PRIOR TO THE START OF EACH PHASE.
  - PHASING LIMITS MAY NOT NECESSARILY MATCH EXACT CONSTRUCTION AREAS/EXTENTS. PHASING LIMITS ARE MEANT TO DEPICT THE OUTERMOST LIMITS FOR CONSTRUCTION ACTIVITIES WITHIN THE RESPECTIVE PHASE.
  - THE CONSTRUCTION PHASING, AS SHOWN IN THESE PLANS, IS FOR GENERAL GUIDANCE ONLY. IT IS THE INTENT OF THE PROJECT TO LIMIT CONTRACTOR CONSTRUCTION ACTIVITIES/OPERATION TO CERTAIN AREAS OF THE BUILDING/GARAGE SO THAT OPERATIONS CAN BE MAINTAINED AS MUCH AS POSSIBLE. THE CONTRACTOR MAY REQUEST A CHANGE TO THE CONSTRUCTION PHASING PLANS PROVIDED THE CONTRACTOR CAN DEMONSTRATE LOCALIZED CONSTRUCTION ACTIVITIES THAT WILL LIMIT INTERFERENCE WITH OPERATIONS. ANY REQUEST FOR MODIFYING THE CONSTRUCTION PHASING PLANS WILL REQUIRE APPROVAL FROM RCC STAFF AND THE ENGINEER.
  - CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO 9PM-6AM UNLESS DIRECTED OTHERWISE BY OWNER.
  - CONTRACTOR SHALL RE-ENERGIZE ALL CIRCUITS AT THE END OF EACH WORK SHIFT.
  - COORDINATE CONSTRUCTION STORAGE AND AREA BARRICADES WITH OWNER AND PSM2
  - SEE SHEET PH1.0 FOR COMPLETE PROJECT PHASE DURATION.

PHASE	DURATION
7A	5 CALENDAR DAYS
7B	10 CALENDAR DAYS
7C	10 CALENDAR DAYS

PHASE 7  
 SUBSTANTIAL 25 CALENDAR DAYS  
 COMPLETION 18 WORKING DAYS

51 TOTAL FIXTURES -  
 3 INSTALLED PER DAY

- PHASE 7A
- PHASE 7B
- PHASE 7C



**PHASE 7 SITE LIGHTING PHASE PLAN**  
 11 SERIES SHEETS

16719 East Palisades Blvd., Suite 202  
 Fountain Hills, AZ 85268  
 Phone: (480) 816-5541  
 Fax: (480) 816-5540  
 www.creng.com

KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO THE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

Designed by: KEL  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

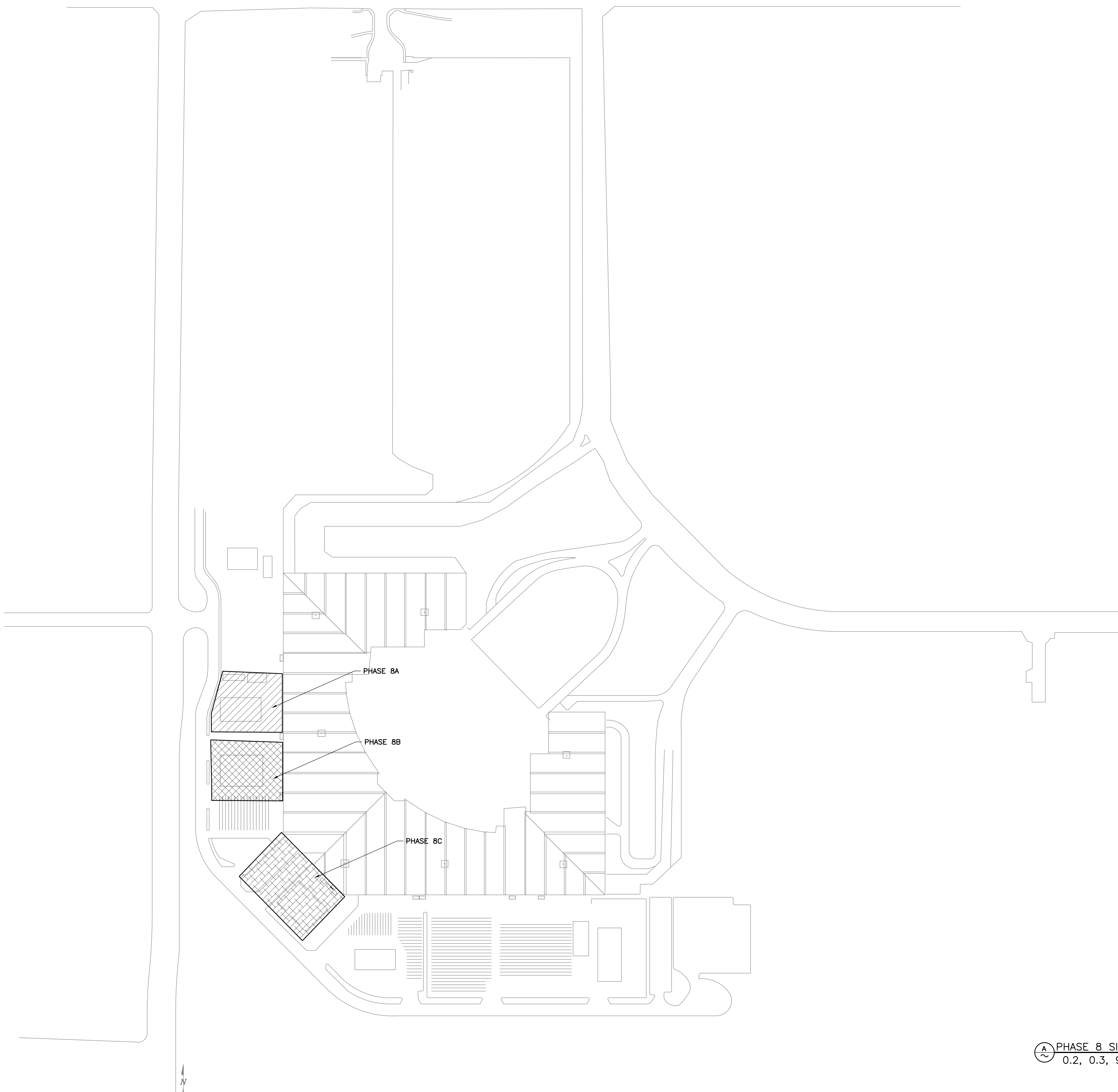
PHOENIX AVIATION DEPARTMENT  
 CITY OF PHOENIX  
 PSHIA RENTAL CAR LED LIGHT RETROFIT  
 AV15000073-1

PHOENIX RENTAL CAR LED LIGHT RETROFIT  
**SITE LIGHTING PHASE PLAN**  
 POLE LIGHTS

Sheet Reference Number:  
**PH7.0**

Sheet 124 of 130

C:\PROJECTS\21000\21009\_P8H\_RCC\_LED\_Light\_Retrofit\CAD\_SHEETS\17094\_P8H.0\_SITE\_LIGHTING\_PHASE\_PLAN.dwg - Dec. 21, 2022 8:04am



**CONTRACTOR ACCESS & STAGING NOTES**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS OWN EQUIPMENT. CONTRACTOR MAY INSTALL TEMPORARY FENCING AROUND HIS STAGING AREA AT HIS OWN EXPENSE, (NPI).

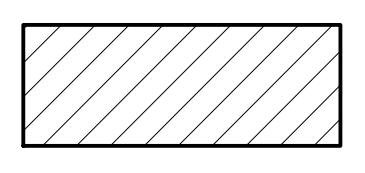
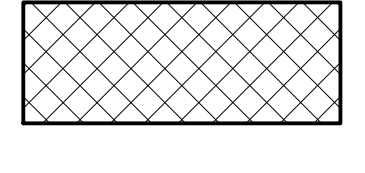
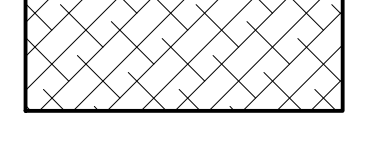
**PHASING NOTES**

1. ALL DURATIONS ARE CALENDAR DAYS.
2. ALL PHASES MUST BE CONSTRUCTED SEQUENTIALLY. NO PHASES SHALL BE CONSTRUCTED CONCURRENTLY.
3. CONTRACTOR SHALL HOLD SAFETY BRIEFINGS WITH RCC STAFF, PRIOR TO THE START OF EACH PHASE.
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7. CONTRACTOR SHALL RE-ENERGIZE ALL CIRCUITS AT THE END OF EACH WORK SHIFT.
8. COORDINATE CONSTRUCTION STORAGE AND AREA BARRICADES WITH OWNER AND PSM2.
9. SEE SHEET PH1.0 FOR COMPLETE PROJECT PHASE DURATION.

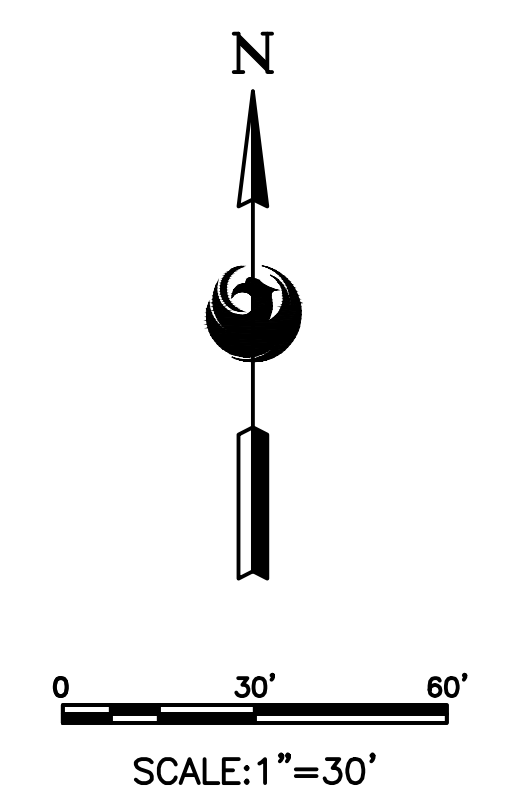
PHASE	DURATION
8A	10 CALENDAR DAYS
8B	10 CALENDAR DAYS
8C	10 CALENDAR DAYS

PHASE 8	30 CALENDAR DAYS
SUBSTANTIAL COMPLETION	21 WORKING DAYS

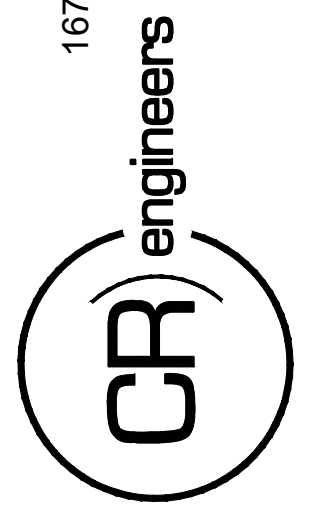
581 TOTAL FIXTURES –  
27.66 INSTALLED PER DAY

	PHASE 8A
	PHASE 8B
	PHASE 8C

**PHASE 8 SITE LIGHTING PHASE PLAN**  
0.2, 0.3, 9 AND 10 SERIES SHEETS



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 Fax: (480) 816-5540  
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PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038

NO.	REVISIONS / SUBMISSIONS	DATE

DESIGNED BY: KEL  
 DRAWN BY: JBW  
 CHECKED BY: CA  
 DATE: 12/22/2022  
 DWG SCALE: AS NOTED

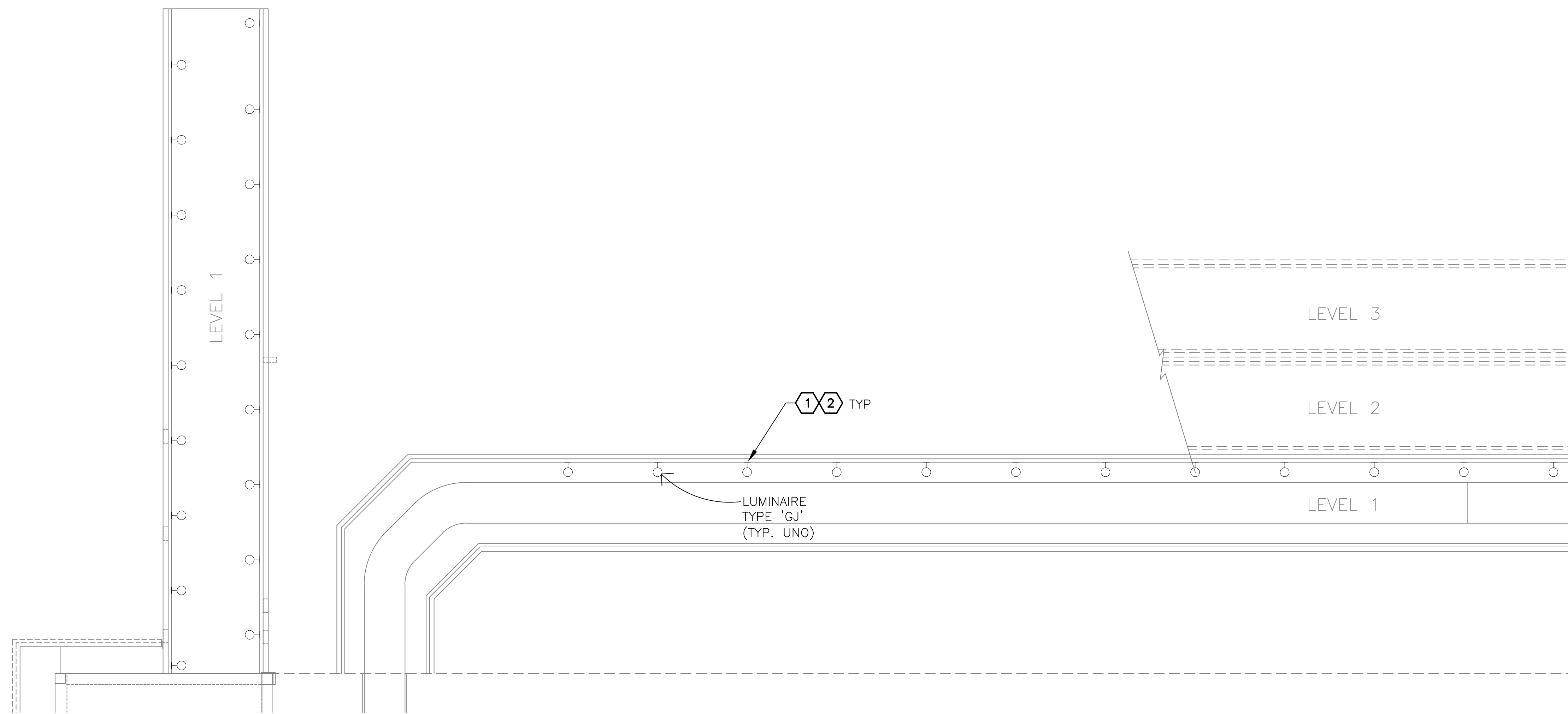
PHOENIX RENTAL CAR LED LIGHT RETROFIT

CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
**AV15000073-1**

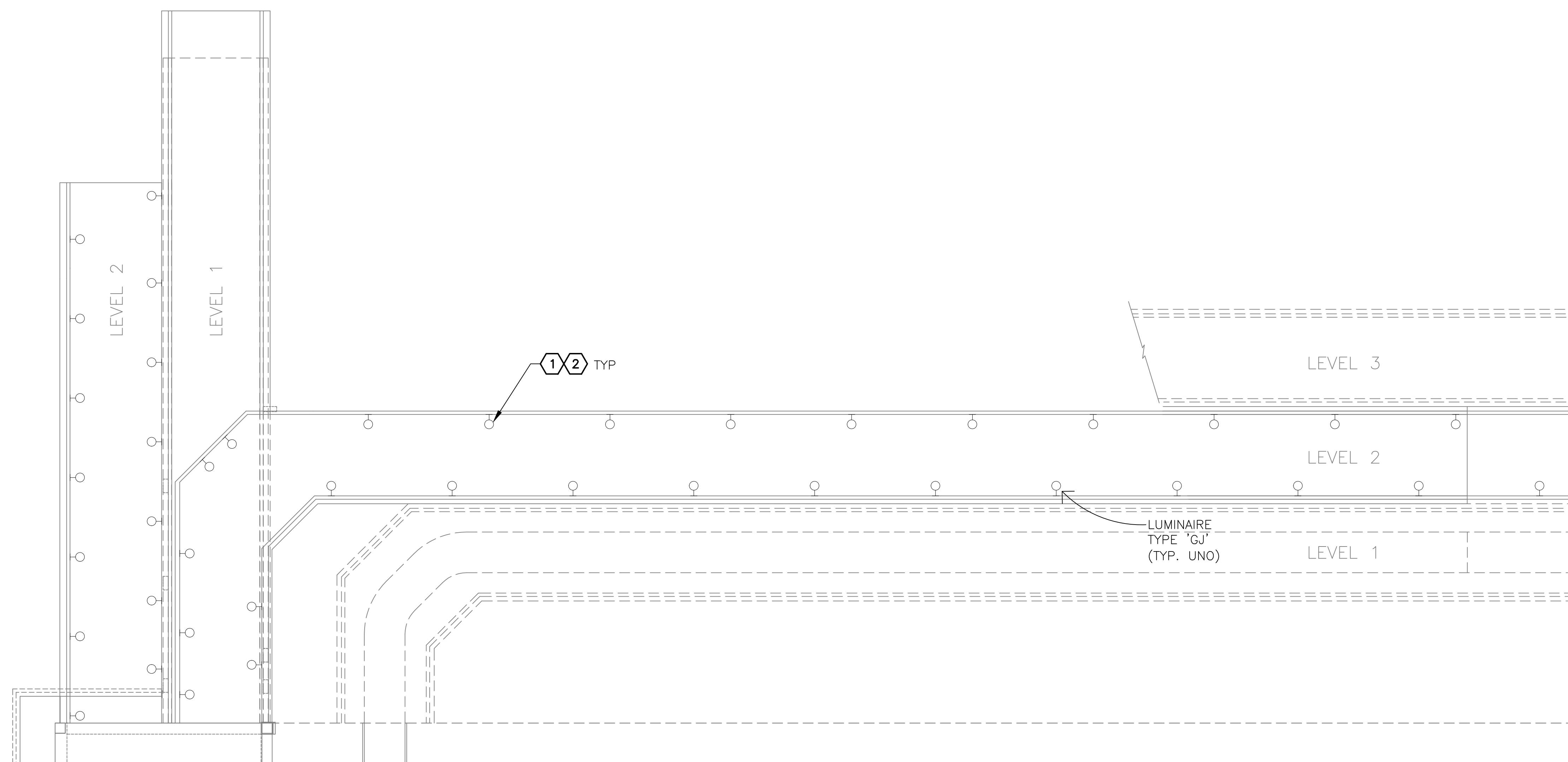
SHEET REFERENCE NUMBER:

**PH8.0**

SHEET 125 OF 130



**A** LIGHTING PLAN – NORTH RAMPS (LEVEL 1)  
SCALE: 1" = 20'-0"



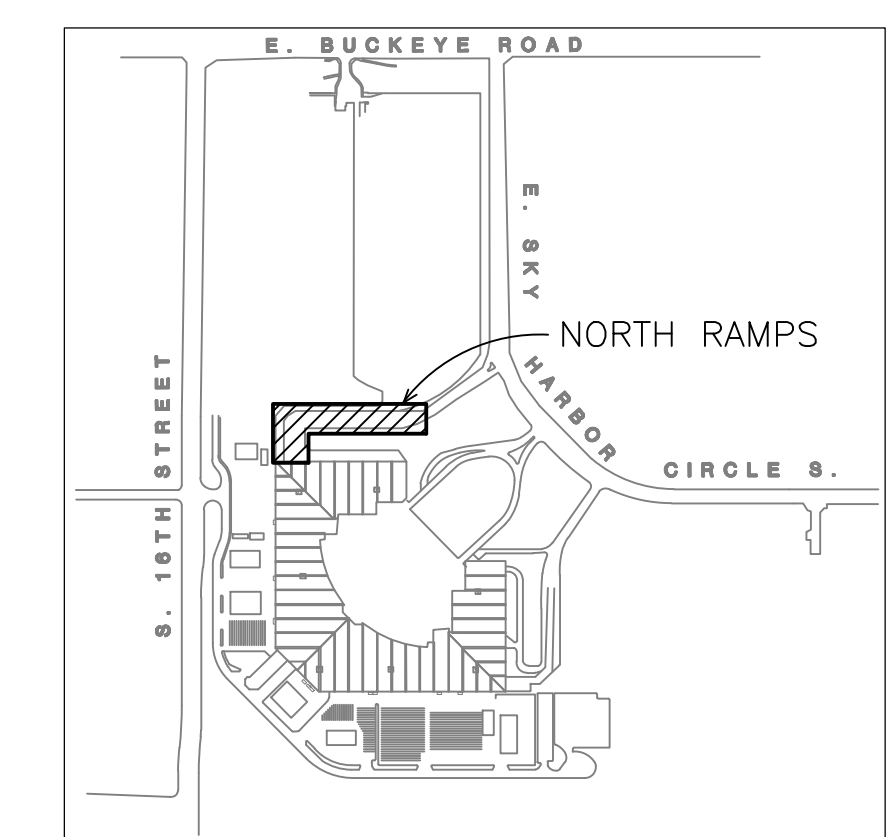
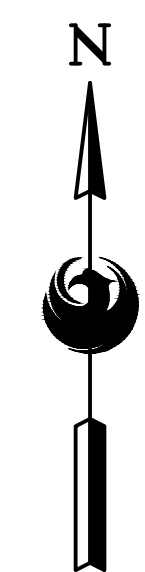
**B** LIGHTING PLAN – NORTH RAMPS (LEVEL 2)  
SCALE: 1" = 20'-0"

**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
- ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
- ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
- OPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
- ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

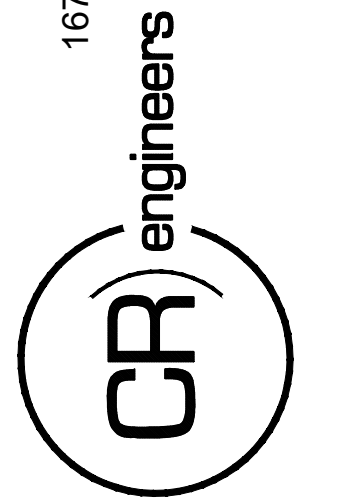
**KEYED NOTES**

- APPROXIMATE LOCATION OF EXISTING LIGHT FIXTURE. EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.



**KEY PLAN**

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com



KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28. THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: KEL  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

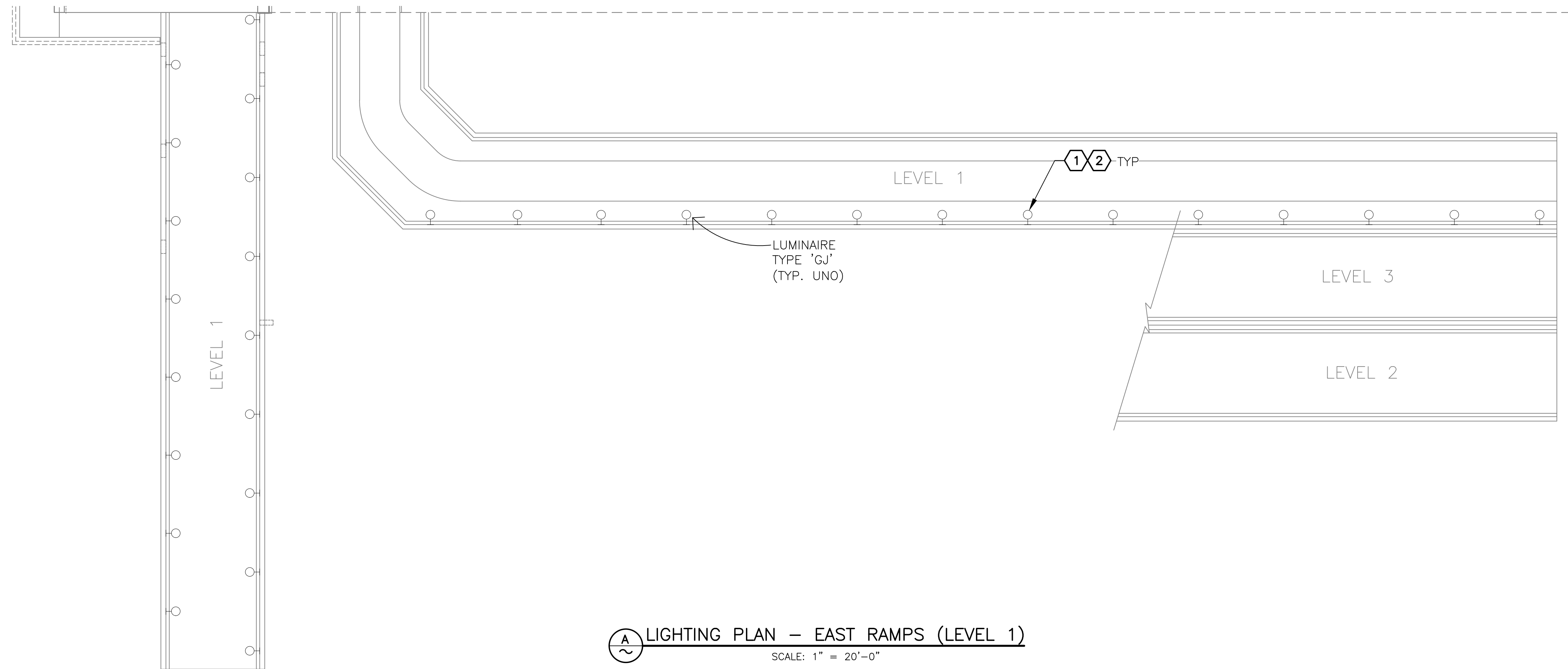
PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLANS  
NORTH RAMPS  
LEVELS 1 AND 2**

Sheet Reference Number:

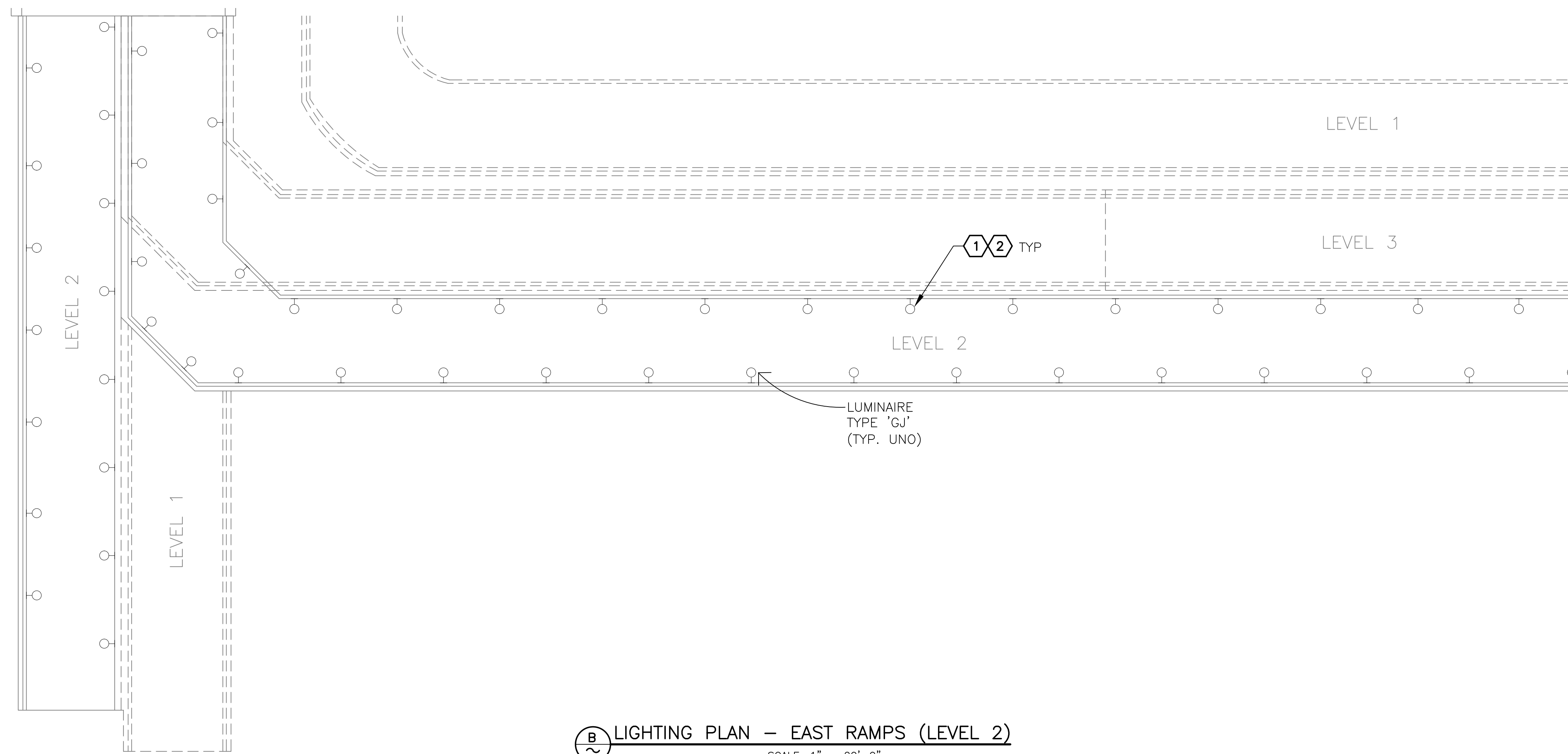
**E17.1**

C:\PROJECTS\21000\21009\_PSH\_LED\_Light\_Retrofit\CAD SHEETS - LEVELS 1 & 2.dwg - Dec 21, 2022, 8:56am





**A LIGHTING PLAN – EAST RAMPS (LEVEL 1)**  
SCALE: 1" = 20'-0"



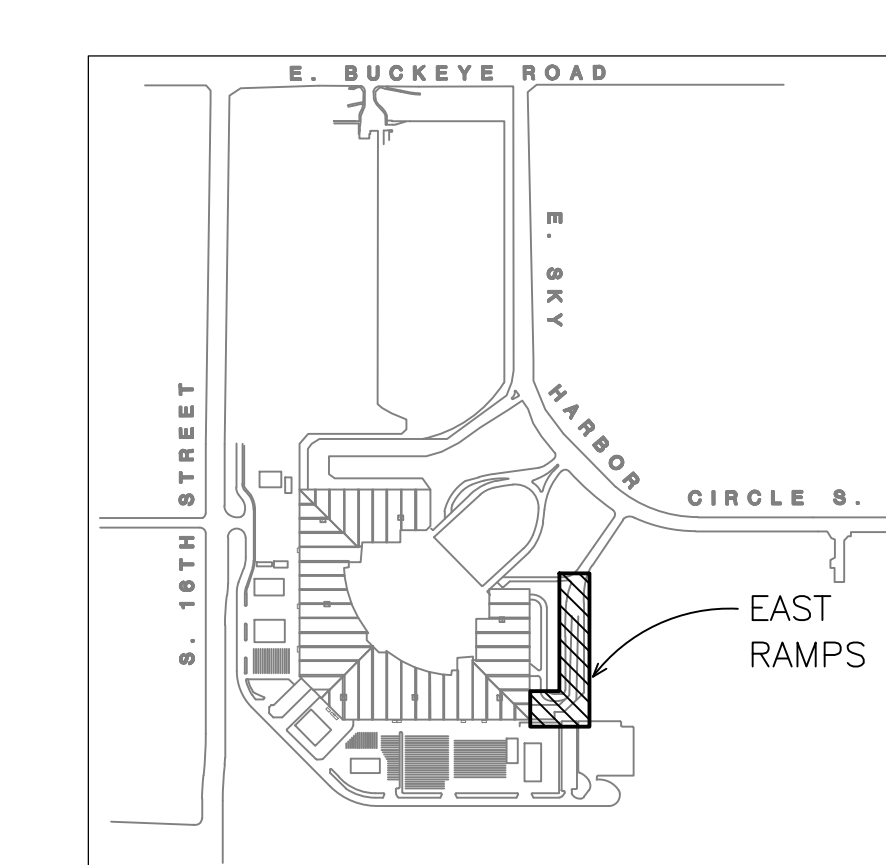
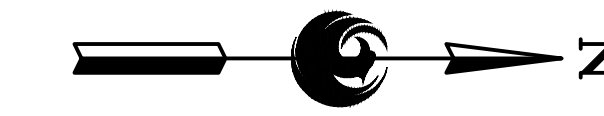
**B LIGHTING PLAN – EAST RAMPS (LEVEL 2)**  
SCALE: 1" = 20'-0"

**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
- ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
- ALL DEVICES, JUNCTION BOXES, CIRCUIT NUMBERS, EQUIPMENT SIZES, AND CONDUIT SHOWN ARE FOR REFERENCE ONLY AND MAY NOT INDICATE CORRECT SIZE OR IDENTIFICATION. CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY CORRECT SIZE AND IDENTIFICATION.
- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
- ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

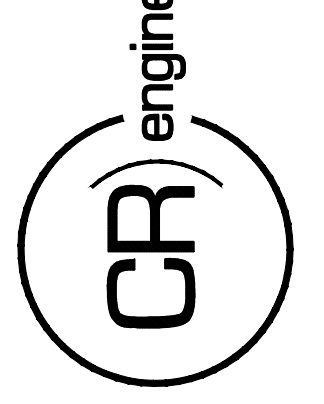
**KEYED NOTES**

- APPROXIMATE LOCATION OF EXISTING LIGHT FIXTURE. EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.



**KEY PLAN**

16719 East Palisades Blvd., Suite 202  
 Fountain Hills, AZ 85268  
 Phone: (480) 816-5541  
 Fax: (480) 816-5540  
 www.creng.com



KIVA NO:  
 SDEV NO:  
 CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

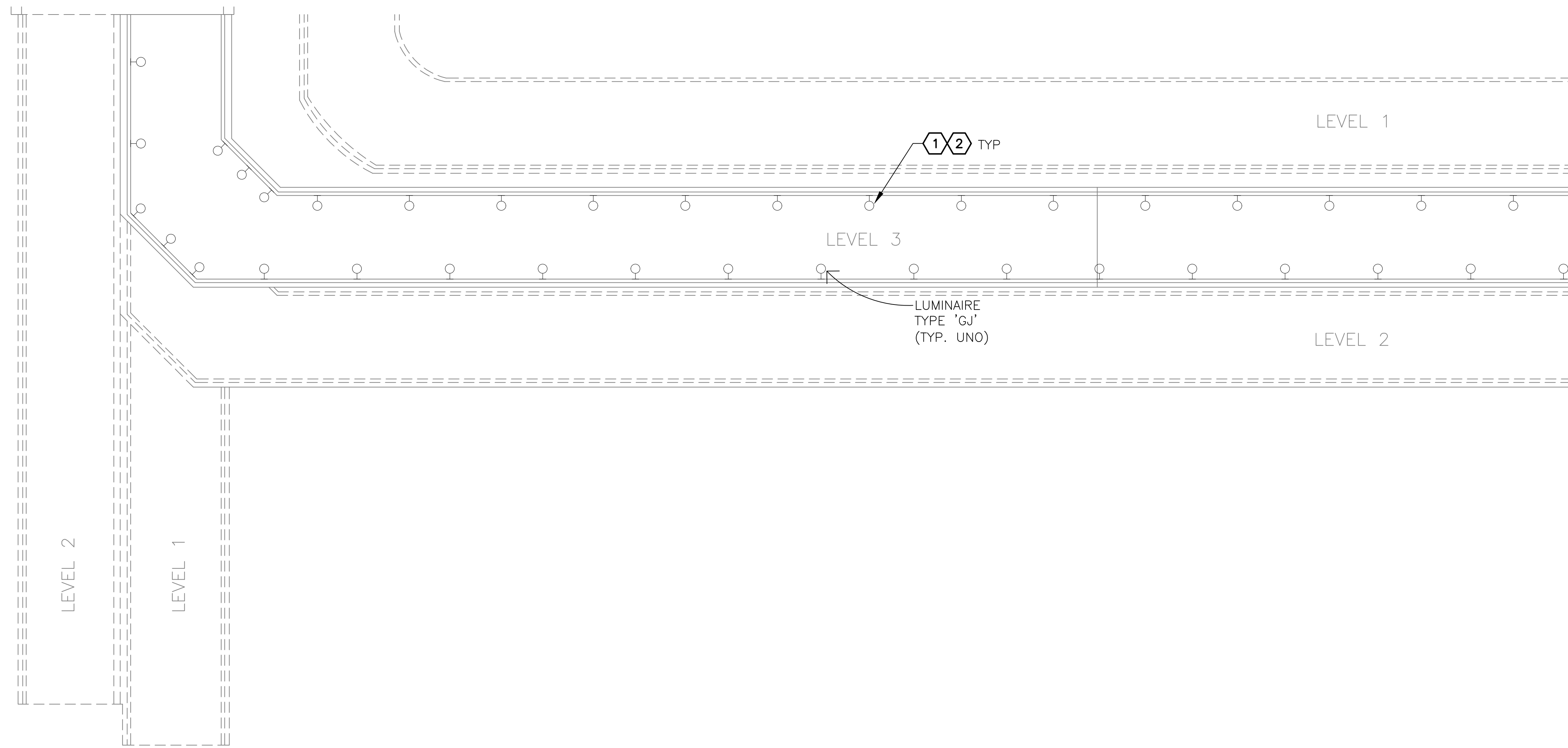
**PHX DVI EYE**  
 CITY OF PHOENIX AVIATION DEPARTMENT  
 PSHIA RENTAL CAR  
 LED LIGHT RETROFIT  
 AV15000073-1

Designed by: KEL  
 Drawn by: JBW  
 Checked by: CA  
 Date: 12/22/2022  
 Dwg scale: AS NOTED

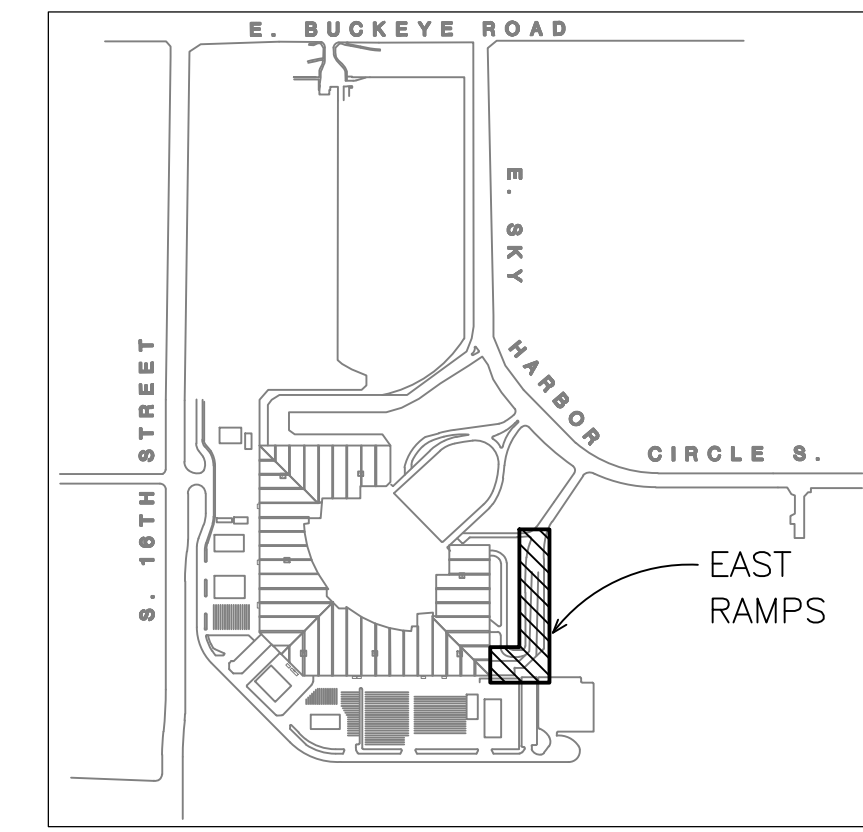
PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLANS**  
**EAST RAMPS**  
**LEVELS 1 AND 2**

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**Ⓐ LIGHTING PLAN – EAST RAMPS (LEVEL 3)**  
SCALE: 1" = 20'-0"



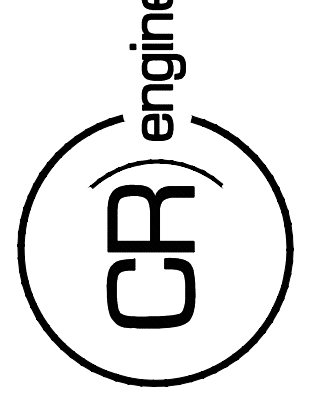
**GENERAL NOTES**

- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
- ALL EQUIPMENT BEING REMOVED OR MODIFIED, THE CONTRACTOR SHALL LOCK-OFF AND TAG BREAKER PRIOR TO WORK.
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- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
- ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO wISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

**KEYED NOTES**

- ① APPROXIMATE LOCATION OF EXISTING LIGHT FIXTURE. EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF. EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- ② NEW FIXTURE TO BE INSTALLED. CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
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KIVA NO:  
SDEV NO:  
CONTRACT NO: 144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

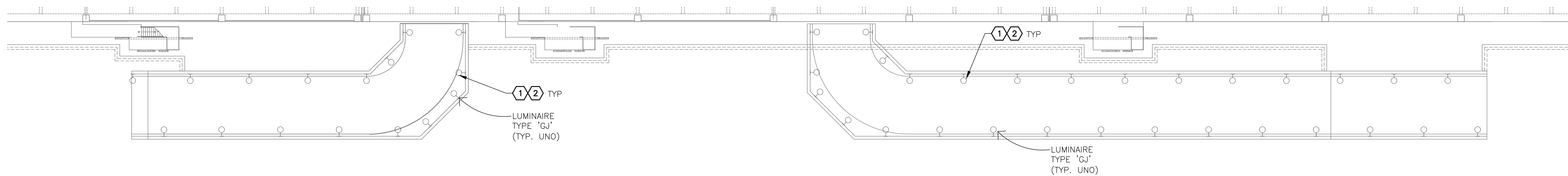
**PHX DVI EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: KEL  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg scale: AS NOTED

PHSIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLANS  
EAST RAMPS  
LEVEL 3**

Sheet Reference Number:  
**E17.4**  
Sheet 129 of 130

C:\PROJECTS\21000\21009\_PHSI\_LED\_Light\_Retrofit\CAD\_SHEETS\17094\_E17.4\_EAST\_RAMPS - LEVEL 3.dwg - Dec. 21, 2022, 8:58am



LEVEL 1 RAMP

LEVEL 3 RAMP

**A** LIGHTING PLAN — SOUTH RAMPS  
SCALE: 1" = 20'-0"

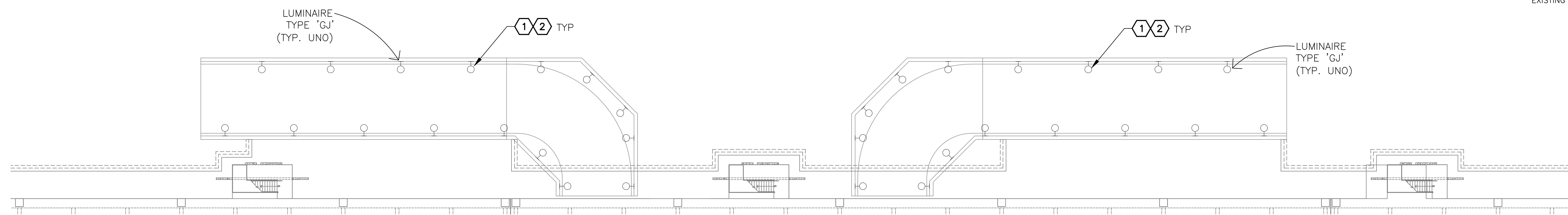


**GENERAL NOTES**

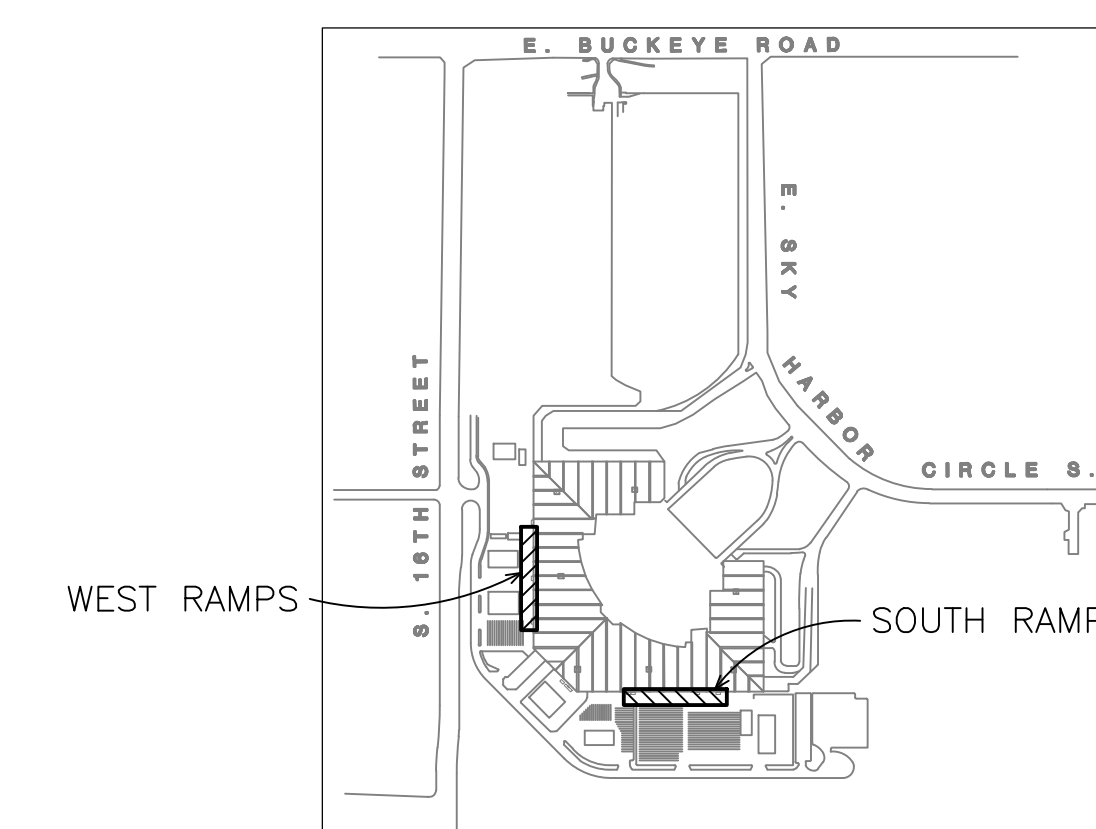
- EXISTING CONDITIONS ARE BASED ON EXISTING RECORD DRAWING AND FIELD VERIFICATION. ACTUAL CONDITIONS MAY DIFFER FROM THOSE SHOWN. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY IN ADVANCE THE LOCATION AND CONDITIONS OF EXISTING ELECTRICAL ITEMS TO BE MODIFIED OR REMOVED. CONTRACTOR SHALL NOTIFY ENGINEER SHOULD CONDITIONS DIFFER SIGNIFICANTLY FROM THE CONSTRUCTION DOCUMENTS.
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- GPR SCANNING IS REQUIRED FOR PENDANT FIXTURE MOUNTING.
- ELECTRICAL CONTRACTOR TO LOG SERIAL NUMBER FOR EVERY FIXTURE ANTICIPATED TO BE CONNECTED TO WISCAPE LIGHTING CONTROL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

**KEYED NOTES**

- APPROXIMATE LOCATION OF EXISTING LIGHT FIXTURE, EXISTING FIXTURE TO BE REMOVED AND DISPOSED OF, EXISTING CONDUIT AND CONDUCTORS TO REMAIN.
- NEW FIXTURE TO BE INSTALLED, CONNECT TO EXISTING POWER CIRCUIT AND CONTROLS.

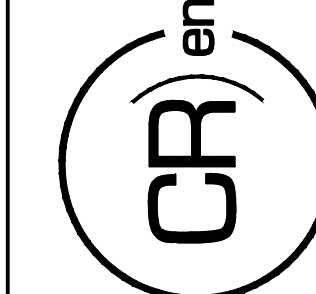


**B** LIGHTING PLAN — WEST RAMPS  
SCALE: 1" = 20'-0"



KEY PLAN

16719 East Palisades Blvd., Suite 202  
Fountain Hills, AZ 85268  
Phone: (480) 816-5541  
Fax: (480) 816-5540  
www.creng.com



KIVA NO:  
SDEV NO:  
CONTRACT NO:  
144038

PER CITY OF PHOENIX CITY CODE CHAPTER 2 SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO COMPLETE CONTRACTORS CONTRACT WITH THE CITY OF PHOENIX.

NO.	REVISIONS / SUBMISSIONS	DATE

**PHX DVT EYE**  
CITY OF PHOENIX AVIATION DEPARTMENT  
PSHIA RENTAL CAR  
LED LIGHT RETROFIT  
AV1500073-1

Designed by: KEL  
Drawn by: JBW  
Checked by: CA  
Date: 12/22/2022  
Dwg. scale: AS NOTED

PSHIA RENTAL CAR LED LIGHT RETROFIT  
**LIGHTING PLANS  
SOUTH AND WEST RAMPS**

Sheet Reference Number:

**E17.5**