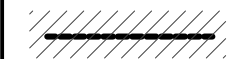
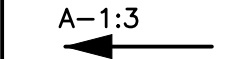
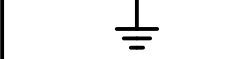
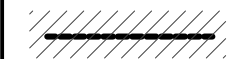
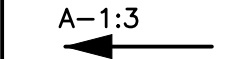
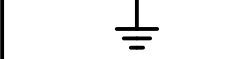


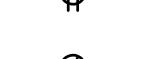


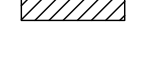
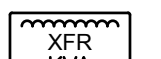

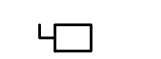








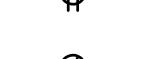


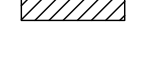
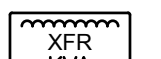

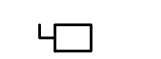






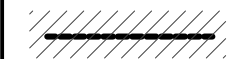
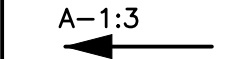
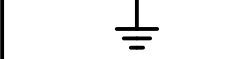


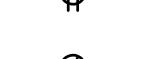


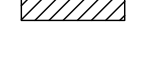
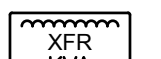

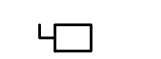








GENERAL ELECTRICAL NOTES	ABBREVIATIONS	RENOVATION/DEMOLITION LEGEND	POWER PLAN LEGEND																																																																				
<p>1. THE ELECTRICAL WORK IS SUBJECT TO ALL OF THE PURCHASER'S TERMS, CONDITIONS AND SPECIFICATIONS, INCLUDING WORKMANSHIP.</p> <p>2. GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION" (ANSI).</p> <p>3. IT IS THE INTENT OF THESE ELECTRICAL DRAWING SHEETS TO CALL FOR FINISHED WORK, TESTED, AND READY FOR OPERATION. FOR THE ELECTRICAL WORK, "PROVIDE" IS AN ALL-INCLUSIVE TERM REQUIRING CONTRACTOR TO PROCURE, FABRICATE, FURNISH, INSTALL, MOUNT, WIRE, CONNECT AND SUPPLY ALL MATERIAL AND LABOR NECESSARY TO COMPLETE THE WORK TO THE ACCEPTANCE OF THE OWNER AND THE AUTHORITY HAVING JURISDICTION (AHJ).</p> <p>4. ALL MATERIAL PROVIDED BY THE CONTRACTOR SHALL BE NEW AND FREE OF DEFECTS, LISTED/LABELED FOR THE INTENDED PURPOSE BY UNDERWRITERS LABORATORY (UL) OR OTHER ORGANIZATION THAT IS ACCEPTABLE TO THE AHJ.</p> <p>5. ALL MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, UNLESS OTHERWISE NOTED.</p> <p>6. CONTRACTOR SHALL INSPECT SITE FOR FIELD VERIFICATION OF ALL ASPECTS OF THE WORK PRIOR TO BIDDING.</p> <p>7. ALL DISCREPANCIES ON DRAWING SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO SUBMISSION OF BIDS. CONTRACTOR'S SUBMISSION OF A BID CONSTITUTES ACCEPTANCE OF ALL CONDITIONS INCLUDING FIELD CONDITIONS.</p> <p>8. THE CONTRACTOR SHALL OBTAIN AND FURNISH ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS.</p> <p>9. THE ELECTRICAL SHEETS ARE DIAGRAMMATICAL IN NATURE AND INDICATE THE GENERAL LOCATION OF OUTLETS, EQUIPMENT, AND THE CIRCUIT ARRANGEMENT OF THE REQUIRED WIRING. ALTHOUGH THE DRAWINGS DO NOT NECESSARILY INDICATE THE ACTUAL ROUTES OF CONDUITS, WHERE INDICATED, THEY SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND SPACE WILL PERMIT. WHERE CONDUIT RUNS ARE NOT SHOWN ON THE DRAWINGS, COORDINATE CONDUIT RUNS WITH THE WORK OF OTHER TRADES AND STRUCTURE. SIMPLY INSTALLATION WHEREVER POSSIBLE, BUT SUBJECT TO APPROVAL BY THE ARCHITECT FOR VISUAL AND STRUCTURAL REASONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, BENDS, PULL BOXES, AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED, REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS. IN CASE OF DISCREPANCY BETWEEN ELECTRICAL AND ARCHITECT SHEET SET FOR MOUNTING ELEVATIONS OR REFLECTED CEILINGS, FOLLOW ARCHITECT SHEETS.</p> <p>10. MAINTAIN ON THE JOB SITE, IN GOOD CONDITION, ONE SET OF UP-TO-DATE ELECTRICAL DRAWINGS, PROGRESSIVELY, NEATLY, LEGIBLY, AND EXACTLY RECORD ON THESE DRAWINGS THE LOCATION OF ALL CONCEALED CONDUIT RUNS AND ALL WORK WHICH IS INSTALLED DIFFERENTLY THAN IN THE LOCATION AND MANNER INDICATED ON THE DRAWINGS. UPON COMPLETION OF THE WORK, THE DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT FOR APPROVAL AND POSSESSION AS A PERMANENT AND COMPLETE RECORD DOCUMENT OF THE ELECTRICAL WORK.</p> <p>11. WHEN FOLLOWED BY THE PHRASE "OR EQUAL", SPECIFIC MANUFACTURERS PRODUCTS ARE USED AS A BASIS OF DESIGN. ALTERNATE PRODUCT MAY BE PROVIDED IF APPROVED "AS EQUAL" BY THE ENGINEER OF RECORD AND THE AHJ.</p> <p>12. FOR ALL ELECTRICAL & COMMUNICATIONS DEVICES AND CIRCUITS, CONTRACTOR SHALL FIELD VERIFY WITH OWNER AND COORDINATE WITH ALL OTHER TRADES FINAL LOCATION(S) PRIOR TO ROUGH IN.</p> <p>13. PRIOR TO FINAL ACCEPTANCE, CLEAN ALL SWITCHES, CABINETS, DEVICE PLATES, FIXTURES, AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT AND ENSURE THAT ALL PANEL BOARD DIRECTORIES ARE IN PLACE AND COMPLETED OR REVISED AS REQUIRED BY THE WORK, AND THAT ALL MARKING AND IDENTIFICATION OF ALL EQUIPMENT, JUNCTION BOXES, AND OTHER ITEMS IS COMPLETED. REPAIR OR REPLACE, AS DIRECTED BY THE OWNER, ANY ITEMS DAMAGED DUE TO INSTALLATION OR RELOCATION OF EQUIPMENT OR DEVICES AT NO ADDITIONAL COST TO THE OWNER.</p> <p>14. UPON THE COMPLETION OF THE WORK, THE ENTIRE ELECTRICAL SYSTEM SHALL BE TESTED AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE TO OPERATE SAME IN ACCORDANCE WITH OR UNDER THE SUPERVISION OF THE ARCHITECT/ENGINEER AND OR AHJ. THE CONTRACTOR SHALL BE AVAILABLE TO ASSIST IN REMOVAL OF PANEL FRONTS, ETC. TO PERMIT INSPECTION AS REQUIRED.</p> <p>15. ALL WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, NATIONAL ELECTRIC CODE (NFPA 70), LOCAL ORDINANCES AND THE AUTHORITY HAVING JURISDICTION.</p> <p>16. FLEXIBLE CONDUIT INSTALLED OUTDOORS, IN ANY MECHANICAL EQUIPMENT ROOM, OR IN NORMALLY WET AREAS SHALL BE LIQUID TIGHT FLEX WITH SUITABLE FITTINGS.</p> <p>17. COORDINATE WITH ALL MECHANICAL TRADES FOR SPACE REQUIREMENTS IN MECHANICAL ROOMS, CORRIDORS, SHAFTS, ABOVE CEILING, ETC. THIS INCLUDES SPACE ABOVE PANELS WHERE DUCTS AND PIPING ARE PROHIBITED.</p> <p>18. FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT, SEE MECHANICAL PLANS.</p> <p>19. PROVIDE CONDUIT EXPANSION FITTINGS WITH BONDING JUMPERS FAR ALL CONDUITS PASSING THROUGH EXPANSION JOINTS.</p> <p>20. AS PER FLORIDA BUILDING CODE, FEEDER AND CUSTOMER OWNED SERVICE CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD, BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD.</p>	<p>A AMPERE</p> <p>AF AMPERE FRAME</p> <p>AFCI AVAILABLE FAULT CURRENT</p> <p>AFCI ARC FAULT CIRCUIT INTERRUPTER</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>AFG ABOVE FINISHED GRADE</p> <p>AHU AIR HANDLER UNIT (HVAC)</p> <p>AHJ AUTHORITY HAVING JURISDICTION</p> <p>AMP AMPERE INTERRUPTING CAPACITY</p> <p>AT AMPERE TRIP</p> <p>AWG AMERICAN WIRE GAUGE</p> <p>BKR BREAKER</p> <p>C CONDUIT OR CONDUCTOR</p> <p>CB CIRCUIT BREAKER</p> <p>CLS CEILING</p> <p>CO CONDUIT ONLY</p> <p>CPT CONTROL POWER TRANSFORMER</p> <p>CU CONDENSING UNIT (HVAC), COPPER</p> <p>DIS DISCONNECT (SAFETY) SWITCH</p> <p>EC EMPTY CONDUIT</p> <p>EF EXHAUST FAN</p> <p>ELI EMERGENCY LIGHT (UNSWITCHED)</p> <p>ELI ELECTRICAL, ELECTRIC</p> <p>EM EMERGENCY</p> <p>EMT ELECTRICAL METALLIC TUBING</p> <p>ENT ELECTRICAL NONMETALLIC TUBING</p> <p>EWH ELECTRIC WATER HEATER</p> <p>EX EXISTING</p> <p>FBC FLORIDA BUILDING CODE</p> <p>FDS FUSED DISCONNECT (SAFETY) SWITCH</p> <p>FLOUR FLUORESCENT</p> <p>FMC FLEXIBLE METAL CONDUIT</p> <p>FMT FLEXIBLE METAL TUBING</p> <p>GND GROUND (ELECTRICAL)</p> <p>GEN GENERATOR</p> <p>GF GROUND FAULT INTERRUPTER</p> <p>GWH GAS WATER HEATER</p> <p>HH HAND HOLE</p> <p>HI HIGH INTENSITY DISCHARGE LIGHT</p> <p>HP HORSE POWER</p> <p>HPS HIGH PRESSURE SODIUM LIGHT</p> <p>HZ HERTZ (ELECTRICAL)</p> <p>ICB INSULATED CASE CIRCUIT BREAKER</p> <p>IG ISOLATED GROUND</p> <p>IMC INTERMEDIATE METAL CONDUIT</p> <p>JB JUNCTION BOX</p> <p>KCMIL THOUSAND CIRCULAR MILS</p> <p>KVA KILOWATT-AMPERE</p> <p>KW KILOWATT</p> <p>KWH KILOWATT-HOUR</p> <p>LIG LIGHT, LIGHTING</p> <p>LFMC LIQUIDTIGHT FLEXIBLE METAL CONDUIT</p> <p>LFNC LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT</p> <p>MCB MAIN CIRCUIT BREAKER</p> <p>MCC MOTOR CONTROL CENTER</p> <p>MCCB MOLDED CASE CIRCUIT BREAKER</p> <p>MDP MAIN DISTRIBUTION PANEL</p> <p>MH METAL HALIDE LIGHT, MAN HOLE</p> <p>MLO MAIN LUGS ONLY</p> <p>N, NEUT NEUTRAL (ELECTRICAL)</p> <p>NEC NATIONAL ELECTRICAL CODE</p> <p>NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSN.</p> <p>NFPA NATIONAL FIRE PROTECTION ASSOCIATION</p> <p>NL NIGHT LIGHT</p> <p>P POLE</p> <p>PB PULL BOX</p> <p>PCB POWER CIRCUIT BREAKER</p> <p>PH PHASE (ELECTRICAL)</p> <p>PNL PANEL</p> <p>PNLB PANELBOARD</p> <p>PVC PLASTIC CONDUIT</p> <p>PWR POWER (ELECTRICAL)</p> <p>RCPT RECEPTACLE</p> <p>RMC RIGID METAL CONDUIT</p> <p>RNC RIGID NONMETALLIC CONDUIT</p> <p>RTU ROOF TOP UNIT (HVAC)</p> <p>SD SMOKE DETECTOR</p> <p>SF SUPPLY FAN</p> <p>SH SHIELDED</p> <p>SW SWITCH</p> <p>SWBD SWITCHBOARD</p> <p>TEL TELEPHONE</p> <p>TTB TELEPHONE TERMINAL BOARD</p> <p>UG UNDERGROUND</p> <p>UL UNDERWRITERS LABORATORY</p> <p>UPS UNINTERRUPTIBLE POWER SUPPLY</p> <p>UON UNLESS OTHERWISE NOTED</p> <p>V, VAC VOLT, VOLT AC</p> <p>W WATT</p> <p>WP WEATHERPROOF</p> <p>XFMR POWER TRANSFORMER</p> <p>NOT ALL ABBREVIATIONS ARE USED IN EVERY DESIGN</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYMBOL</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><Ex></td> <td>EXISTING TO REMAIN.</td> </tr> <tr> <td style="text-align: center;"></td> <td>EXISTING TO BE REMOVED.</td> </tr> <tr> <td style="text-align: center;"><R></td> <td>EXISTING TO BE RELOCATED.</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">CONDUIT RACEWAY & WIRING LEGEND</th> </tr> <tr> <th>SYMBOL</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A-1-3</td> <td>RACEWAY CONDUIT CONCEALED ABOVE CEILING OR WITHIN WALL UNLESS OTHERWISE NOTED. 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NOT ALL ABBREVIATIONS ARE USED IN EVERY DESIGN		NOT ALL SYMBOLS ARE USED IN EVERY DESIGN																																																																					
CODE DISCLAIMER		SUBMITTAL/ SHOP DRAWING DATA																																																																					
<p>ELECTRICAL DESIGN IN ACCORDANCE WITH 2011 NATIONAL ELECTRIC CODE (NFPA-70), AS INCORPORATED BY THE 2014 FLORIDA BUILDING CODE AND 2014 EDITION OF THE FLORIDA FIRE PREVENTION CODE.</p>		<p>PROVIDE 6-SETS (EACH) OF MANUFACTURER'S DATA, O&M MANUALS, ELECTRICAL DATA, DIMENSIONAL DATA AND CLEARANCES, CONNECTION DATA, COLOR SAMPLES (IF REQUIRED), AND TEST DATA FOR THE FOLLOWING:</p> <p>LIGHTING FIXTURES, PANELS, DISCONNECT SWITCHES, LIGHTING POLES.</p> <p>SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED PRIOR TO ORDERING OF EQUIPMENT. ENGINEER WILL REQUIRE 7 WORKING DAYS TO REVIEW DRAWINGS. ANY ITEM FURNISHED AND/OR INSTALLED WITHOUT THE BENEFIT OF REVIEW AND ACCEPTANCE FOUND TO BE DEFICIENT SHALL BE SUBJECT TO REPLACEMENT AT THE DIRECTION OF THE ENGINEER AND AT THE CONTRACTOR'S SOLE EXPENSE. ENGINEER WILL REQUIRE DETAILED, COMPLETED SUBMITTALS.</p>																																																																					



**ORANGE COUNTY
CORRECTIONS
SITE LIGHTING
UPGRADES**

Client
Orange County
Capital Projects
400 East South St.
Orlando, Florida 32801

Engineer:



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12/07/2018

06/22/2016 60% SUBMITTAL SET

10/17/2016 95% SUBMITTAL SET

1/12/2017 PERMIT SET

5/23/2017 PERMIT SET

12/07/2018 BID SET

No.	By	Date	Revision
0			
1			
2			
3			

**ELECTRICAL
GENERAL
INFORMATION**

Sheet Title
Job No. 15.OC.017
Date 12/07/2018
Drawn ME
Checked MKS

E001

Sheet No.

REPLACEMENT LIGHT FIXTURE SCHEDULE						
TYPE	MANUFACTURER & PART NUMBER	DESCRIPTION	NOTES	FIXTURE WATTAGE	TOTAL POLE WATTAGE	VOLTAGE
SLA	LITHONIA DSX1 LED 60C 1000 40K TSM MVOLT PERS	LED, POLE LIGHT, SINGLE HEAD, VARIOUS MOUNTING HEIGHTS ROAM ENABLED		209W	209W	MVOLT
SLA_2	SAME AS SLA WITH DOUBLE HEAD LIGHT FIXTURE.	SAME AS SLA WITH DOUBLE HEAD LIGHT FIXTURE. ROAM ENABLED		209W	418W	MVOLT
SLA_4	SAME AS SLA WITH QUAD HEAD LIGHT FIXTURE.	SAME AS SLA WITH QUAD HEAD LIGHT FIXTURE. ROAM ENABLED		209W	836W	MVOLT
SLAA	LITHONIA DSX1 LED 60C 1000 40K TSM 480 PERS	LED, POLE LIGHT, SINGLE HEAD, 480V, VARIOUS MOUNTING HEIGHTS ROAM ENABLED		209W	209W	480V
SLAA_2	SAME AS SLAA WITH DOUBLE HEAD LIGHT FIXTURE.	SAME AS SLAA WITH DOUBLE HEAD LIGHT FIXTURE. ROAM ENABLED		209W	418W	480V
SLAA_4	SAME AS SLAA WITH QUAD HEAD LIGHT FIXTURE.	SAME AS SLAA WITH QUAD HEAD LIGHT FIXTURE. ROAM ENABLED		209W	836W	480V
SLC	LITHONIA TWH LED 30C 1000 50K TSM MVOLT	LED WALL PACK		104W	104W	MVOLT
SLG	LITHONIA DSXF3 LED 6 P1 40K WFL MVOLT PERS SPECIFY FINISH	LED FLOOD LUMINAIRE ROAM ENABLED		121W	121W	MVOLT
SLGA	LITHONIA DSXF3 LED 6 P1 40K WFL 480 PERS SPECIFY FINISH	LED FLOOD LUMINAIRE ROAM ENABLED		121W	121W	480V
SLI	LITHONIA DSX2 80C 1200 40K TFM MVOLT	LED, POLE LIGHT, VARIOUS MOUNTING HEIGHTS ROAM ENABLED		300W	300W	MVOLT
SLI_2	SAME AS SLI WITH DOUBLE HEAD LIGHT FIXTURE.	SAME AS SLI WITH DOUBLE HEAD LIGHT FIXTURE ROAM ENABLED		300W	300W	MVOLT
SLIA	LITHONIA DSX2 80C 1200 40K TFM 480	LED, POLE LIGHT, 480V, VARIOUS MOUNTING HEIGHTS		300W	300W	480V
SLL	LITHONIA DSXF2 LED 4 A530/40K WFL 120 PERS YK62 PE DBLXD	GROUND MOUNTED FLOOD LUMINAIRE ROAM ENABLED	CONTRACTOR TO VERIFY VOLTAGE PRIOR TO ORDERING.	74W	74W	120V
SLM_2	SAME AS SLM WITH DOUBLE HEAD LIGHT FIXTURE.	DOUBLE HEAD POLE MOUNTED LIGHT FIXTURE ROAM ENABLED		183W	366W	MVOLT
SLM_2V	LITHONIA DSXF3 LED 6 P2 40K WFL MVOLT PERS YK62 DBLXD UVB	DOUBLE HEAD POLE MOUNTED LIGHT FIXTURE ROAM ENABLED.		183W	366W	MVOLT
SLMA_2	SAME AS SLMA WITH DOUBLE HEAD LIGHT FIXTURE.	SAME AS SLMA WITH DOUBLE HEAD POLE MOUNTED LIGHT FIXTURE ROAM ENABLED		183W	366W	480V
SLU	LITHONIA DSX1 LED 30C 1000 40K TSM MVOLT PERS	LED, POLE LIGHT, SINGLE HEAD, VARIOUS MOUNTING HEIGHTS ROAM ENABLED		105W	105W	MVOLT
SLU_HS	LITHONIA DSX1 LED 30C 1000 40K TSM 277 HS	LED, POLE LIGHT, SINGLE HEAD, VARIOUS MOUNTING HEIGHTS WITH HOUSE SIDE SHIELDING ROAM ENABLED		105W	105W	MVOLT
SLU_2	SAME AS SLU WITH DOUBLE HEAD	SAME AS SLU WITH DOUBLE HEAD ROAM ENABLED		105W	210W	MVOLT
SLUA	LITHONIA DSX1 LED 30C 1000 40K TSM 480 PERS	LED, POLE LIGHT, SINGLE HEAD, 480V, VARIOUS MOUNTING HEIGHTS ROAM ENABLED		105W	105W	480V
SLUA_HS	LITHONIA DSX1 LED 30C 1000 40K TSM 480 HS	LED, POLE LIGHT, SINGLE HEAD, 480V VARIOUS MOUNTING HEIGHTS WITH HOUSE SIDE SHIELDING ROAM ENABLED		105W	105W	480V
SLUA_2	SAME AS SLUA WITH DOUBLE HEAD	SAME AS SLUA WITH DOUBLE HEAD ROAM ENABLED		105W	210W	480V
SLUA_3	SAME AS SLUA WITH TRIPLE HEAD	SAME AS SLUA WITH TRIPLE HEAD ROAM ENABLED		105W	315W	480V
SLUA_4	SAME AS SLUA WITH QUAD HEAD	SAME AS SLUA WITH QUAD HEAD ROAM ENABLED		105W	420W	480V

1. CONTRACTOR SHALL PROVIDE SUBMITTAL OF ALL FIXTURES TO OWNER AND ARCHITECT. SUBMITTAL SHALL BE APPROVED BY OWNER, ARCHITECT AND ENGINEER PRIOR TO ORDERING ANY FIXTURES. IT IS THE RESPONSIBILITY OF THE LIGHTING VENDOR TO ENSURE OWNER & ARCHITECT HAVE SIGNED OFF ON SUBMITTALS. RTM ENGINEERING WILL NOT BE RESPONSIBLE FOR DESIGN INTENT OF FIXTURES NOT MEETING OWNER'S OR ARCHITECT'S EXPECTATIONS.

2. ANY SUBSTITUTION OF FIXTURES WILL REQUIRE A FULL PHOTOMETRIC ANALYSIS TO BE PROVIDED FOR ALL SUBSTITUTED AREAS. LIGHTING VENDOR/DISTRIBUTOR WILL BE RESPONSIBLE FOR GATHERING AND EVALUATING DATA TO MATCH INTENDED FIXTURE PHOTOMETRIC RESULTS. SUBSTITUTED FIXTURES WILL NOT BE APPROVED WITHOUT PHOTOMETRIC PROVIDED WITH SUBMITTAL.

3. ANY ADDITIONAL ENGINEERING COST FOR RE-WORK OR EXTRA SUBMITTAL EVALUATION FOR SUBSTITUTIONS SHALL BE PAID FOR BY GENERAL CONTRACTOR.

4. THE LIGHTING FIXTURE SELECTION AND LIGHTING CONTROLS ARE DESIGNED TO MEET FBC 2014.

5. PERFORMANCE OF THE LIGHTING IS TO MEET IES RECOMMENDED LIGHT LEVELS AND LIFE SAFETY STANDARDS & ORANGE COUNTY CORRECTIONS.

6. ALL PROPOSED ALTERNATE LIGHT FIXTURES ARE TO BE SUBMITTED TO THE ENGINEER 15 BUSINESS DAYS PRIOR TO THE PUBLISHED BID DATE. PRIOR SUBMITTAL WILL INCLUDE COMPLETE CUT SHEETS BY TYPE ALONG WITH REQUIRED SITE AND INTERIOR PHOTOMETRY, COLOR CHIP SET AND WORKING SAMPLE. SUBSTITUTES REQUIRE THE ARCHITECT'S WRITTEN APPROVAL. LIGHTING CONTROL ALTERNATES REQUIRE A PRIOR SUBMITTAL TO INCLUDE FACTORY DRAWINGS AND CUT SHEETS, AN ADDITIONAL HOURLY CONSULTING FEE WILL BE CHARGED TO REVIEW ALTERNATE FIXTURES/LIGHTING CONTROLS THAT HAVE NOT RECEIVED WRITTEN APPROVAL.

7. CONTRACTOR MUST MEET WITH THE DESIGN TEAM TO VERIFY ALL MOUNTING HARDWARE, VOLTAGES AND FINISHERS PRIOR TO ORDERING.

8. ALL LIGHTING CONTROLS COMPLY WITH NEC & FBC ALONG WITH COMPATIBILITY WITH FIXTURE SELECTION. NO SUBSTITUTES, FIXTURES AND CONTROLS MUST BE MANUFACTURED AND SUPPLIED BY THE SAME MANUFACTURER.

NOTE : PROVIDE QUICK DISCONNECT FOR BALLAST PER NEC 2008 410.73(G).



**ORANGE COUNTY
CORRECTIONS
SITE LIGHTING
UPGRADES**

Client
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Orlando, Florida 32801

Engineers:



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12/07/2018

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5/23/2017	PERMIT SET
12/07/2018	BID SET

No.	By	Date	Revision
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1			
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**LIGHTING FIXTURE
SCHEDULE**

Sheet Title
Job No. 15.OC.017
Date 12/07/2018
Drawn ME
Checked MKS

E002

Sheet No.



**ORANGE COUNTY
CORRECTIONS
SITE LIGHTING
UPGRADES**

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No. By Date Revision

0

1

2

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**OVERALL SITE
PLAN**

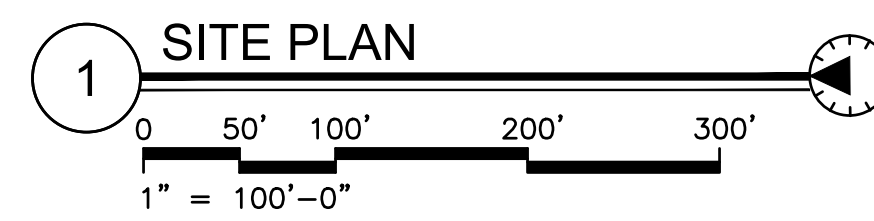
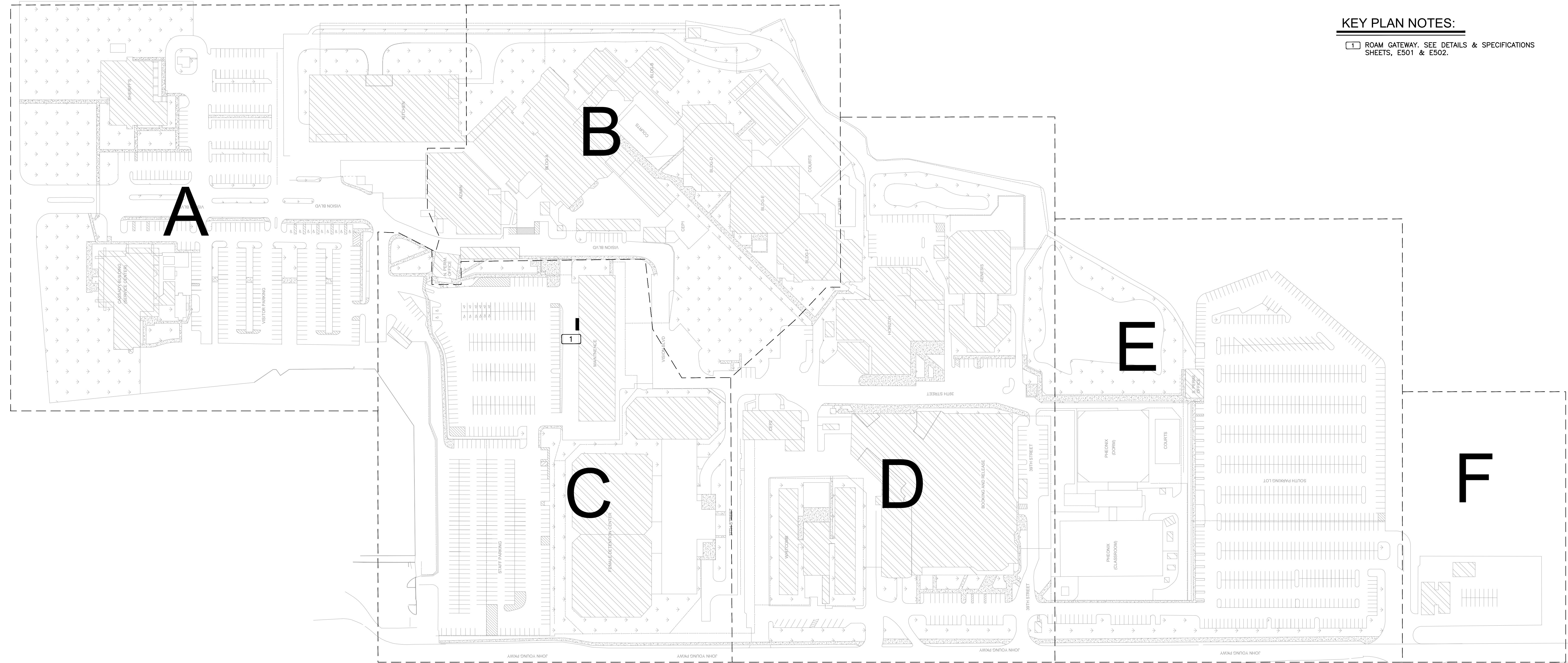
Sheet Title
Job No. 15.OC.017
Date 12/07/2018
Drawn ME
Checked MKS

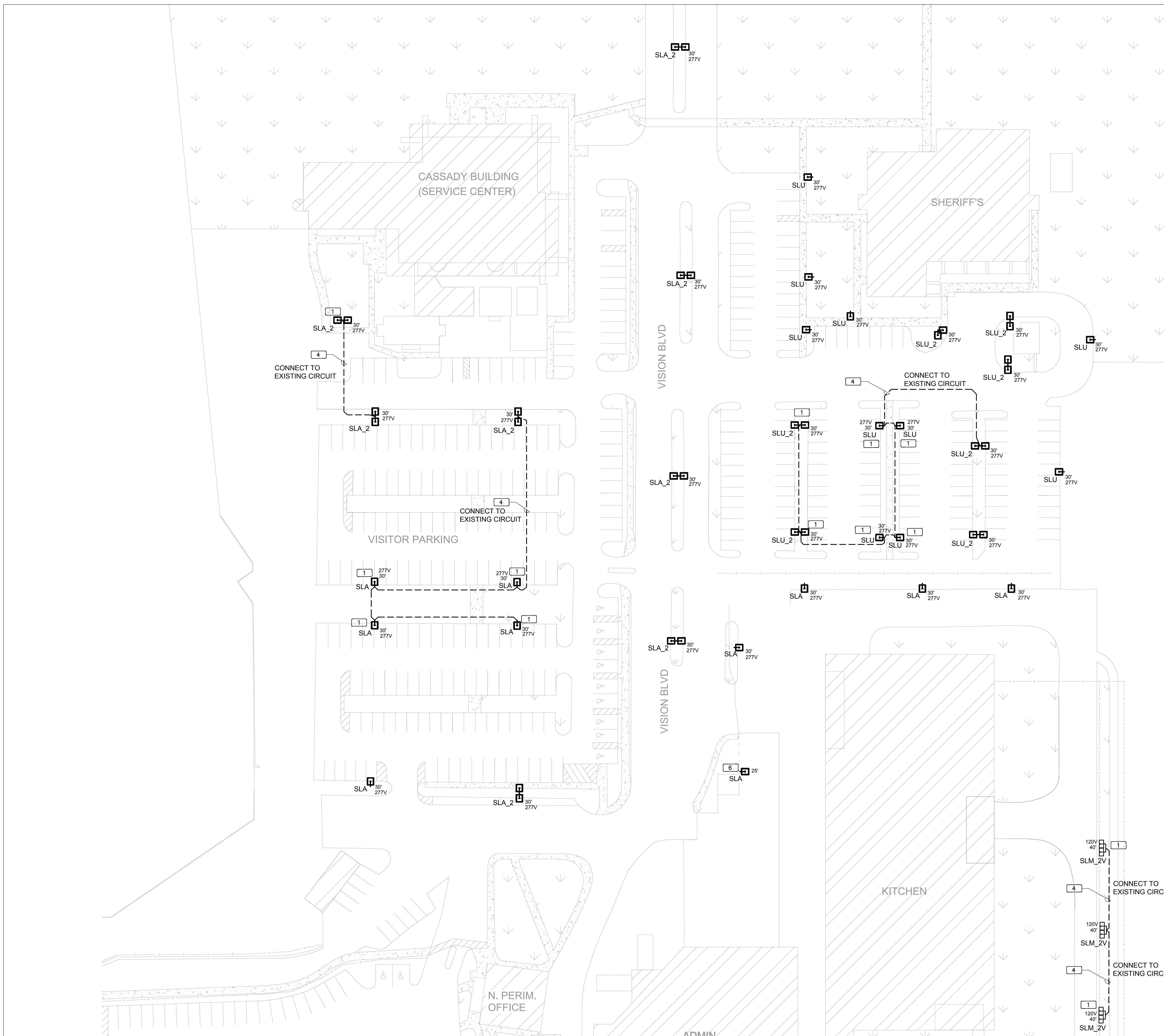
E101

Sheet No.

KEY PLAN NOTES:

1 ROAM GATEWAY. SEE DETAILS & SPECIFICATIONS
SHEETS, E501 & E502.





1
AREA A LIGHTING PLAN
 NORTH
 0 16' 32' 64' 96'
 1/32" = 1'-0"

GENERAL NOTES:

1. ALL NEW POLE LIGHTING FIXTURES SHALL BE CONTROLLED THROUGH NEW ROAM CONTROL SYSTEM. CONTRACTOR TO REWIRE EXISTING LIGHTING CIRCUITS AT ELECTRICAL PANEL LOCATIONS TO BYPASS EXISTING CONTROL SYSTEM.
2. INSTALL ROAM WIRELESS CONTROL NODE ON EACH POLE MOUNTED FIXTURE. NODE MODEL # 'REN 127 DVX A0G' FOR CIRCUIT VOLTAGE 120/240/277 VAC OR MODEL # 'REN 480 DVX A0G' FOR CIRCUIT VOLTAGE 480 VAC.
3. UNDERGROUND CONDUITS IN PARKING AREAS TO BE INSTALLED VIA DIRECTIONAL BORING.
4. ALL LIGHTING FIXTURES SHOWN ON PLAN ARE "REPLACEMENT" IN EXISTING LOCATIONS UNLESS OTHERWISE NOTED WITH A NOTE 1 OR 2.
5. LIGHTING POLE HEIGHTS AND EXISTING VOLTAGE SYSTEMS ARE SHOWN ON PLAN NEXT TO LIGHTING FIXTURES.
6. UNDERGROUND PULL BOXES SHALL BE MONOLITHIC POLYMER CONCRETE, QUAZITE BY HUBBELL OR APPROVED EQUAL.
7. PROVIDE TEMPORARY LIGHTS ON AN AS NEEDED BASIS DURING CONSTRUCTION.
8. UPON COMPLETION OF WORK, CONTRACTOR SHALL FIELD VERIFY PHOTOMETRICS USING A DIGITAL LIGHT METER.
9. ON ALL EXISTING LIGHTING POLES, PROVIDE NEW WIRING FROM NEW LIGHTING FIXTURE TO POLE JUNCTION BOX LOCATED AT THE BOTTOM OF THE POLE, MATCH EXISTING WIRING, AND PROVIDE PROPER COVER AT LIGHTING FIXTURE TERMINATION POINT, IF NEEDED, TO PROTECT WIRING FROM BEING EXPOSED.

KEY PLAN NOTES:

- 1 NEW LIGHTING POLE AND FIXTURE TO BE INSTALLED. MATCH EXISTING POLE HEIGHTS & SPECIFICATIONS.
- 2 NEW WALL MOUNTED FIXTURE TO BE INSTALLED, THERE IS NO EXISTING FIXTURE AT THIS LOCATION.
- 3 NOT USED.
- 4 MATCH AND EXTEND EXISTING WIRING AND CONDUIT FROM EXISTING LIGHTING CIRCUIT TO NEW LIGHTING POLE.
- 5 NOT USED.
- 6 CONTRACTOR TO VERIFY EXISTING VOLTAGE BEFORE ORDERING FIXTURE. IF IT IS 480V PROVIDE SAME LIGHTING FIXTURE SPECIFIED BUT ONE THAT OPERATES ON A 480V INSTEAD OF MVOLT (120V-277V), SEE LIGHTING FIXTURE SCHEDULE ON E002.
- 7 NOT USED.



ORANGE COUNTY CORRECTIONS SITE LIGHTING UPGRADES

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 Orange County
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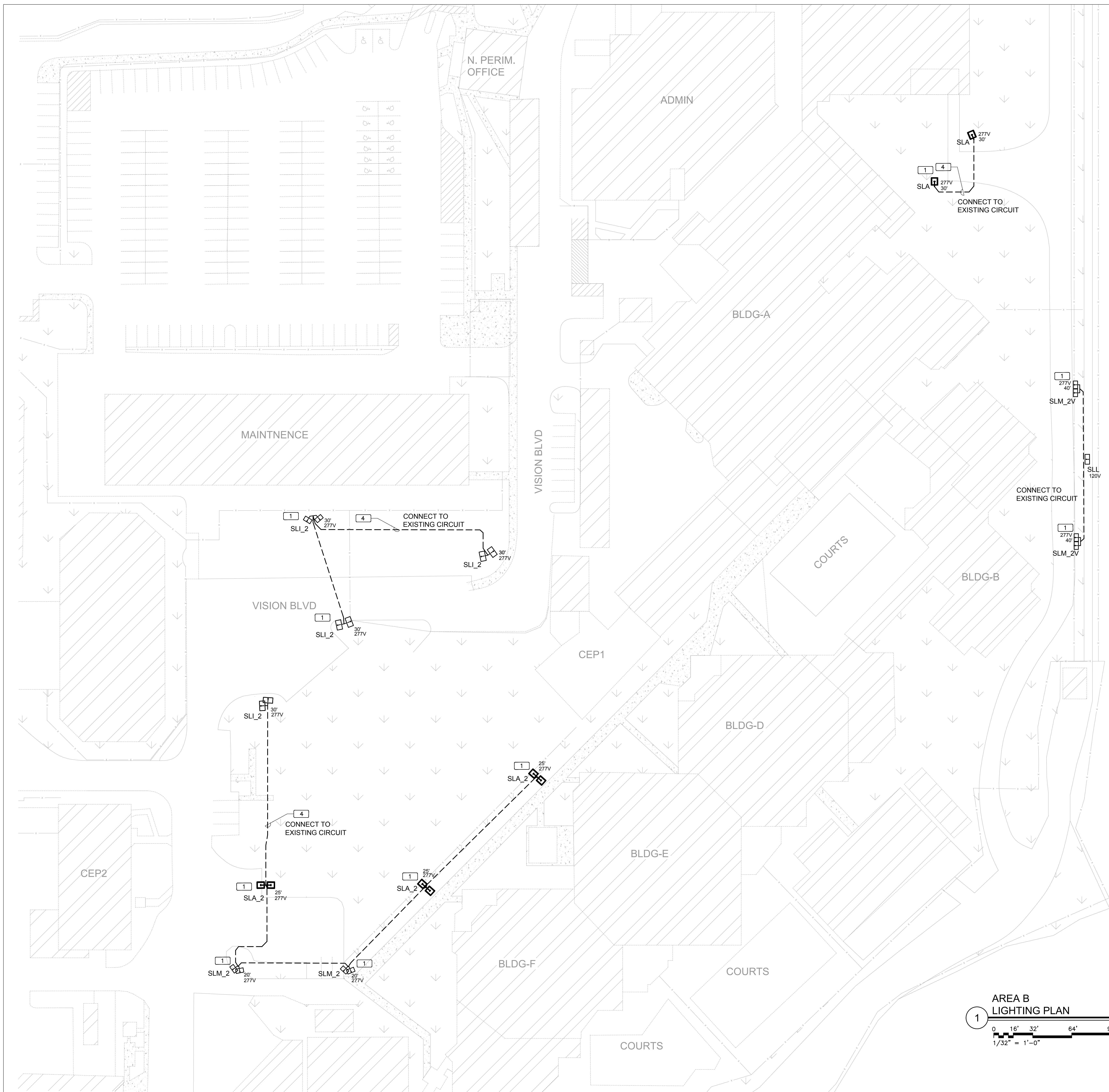
AREA A LIGHTING PLAN

Sheet Title
 Job No. 15.OC.017
 Date 12/07/2018
 Drawn ME
 Checked MKS

E201

Sheet No.

Plot Date: Dec 07, 2018 - 9:22am - OC CORRECTIONS SITE LIGHTING - ELEC.dwg



GENERAL NOTES:

1. ALL NEW POLE LIGHTING FIXTURES SHALL BE CONTROLLED THROUGH NEW ROAM CONTROL SYSTEM. CONTRACTOR TO WIRE EXISTING LIGHTING CIRCUITS AT ELECTRICAL PANEL LOCATIONS TO BYPASS EXISTING CONTROL SYSTEM.
2. INSTALL ROAM WIRELESS CONTROL NODE ON EACH POLE MOUNTED FIXTURE. NODE MODEL # 'REN 127 DVX A0G' FOR CIRCUIT VOLTAGE 120/240/277 VAC OR MODEL # 'REN 480 DVX A0G' FOR CIRCUIT VOLTAGE 480 VAC.
3. UNDERGROUND CONDUITS IN PARKING AREAS TO BE INSTALLED VIA DIRECTIONAL BORING.
4. ALL LIGHTING FIXTURES SHOWN ON PLAN ARE "REPLACEMENT" IN EXISTING LOCATIONS UNLESS OTHERWISE NOTED WITH A NOTE 1 OR 2.
5. LIGHTING POLE HEIGHTS AND EXISTING VOLTAGE SYSTEMS ARE SHOWN ON PLAN NEXT TO LIGHTING FIXTURES.
6. UNDERGROUND PULL BOXES SHALL BE MONOLITHIC POLYMER CONCRETE, QUAZITE BY HUBBELL OR APPROVED EQUAL.
7. PROVIDE TEMPORARY LIGHTS ON AN AS NEEDED BASIS DURING CONSTRUCTION.
8. UPON COMPLETION OF WORK, CONTRACTOR SHALL FIELD VERIFY PHOTOMETRICS USING A DIGITAL LIGHT METER.
9. ON ALL EXISTING LIGHTING POLES, PROVIDE NEW WIRING FROM NEW LIGHTING FIXTURE TO POLE JUNCTION BOX LOCATED AT THE BOTTOM OF THE POLE, MATCH EXISTING WIRING, AND PROVIDE PROPER COVER AT LIGHTING FIXTURE TERMINATION POINT, IF NEEDED, TO PROTECT WIRING FROM BEING EXPOSED.

KEY PLAN NOTES:

- 1 NEW LIGHTING POLE AND FIXTURE TO BE INSTALLED. MATCH EXISTING POLE HEIGHTS & SPECIFICATIONS.
- 2 NEW WALL MOUNTED FIXTURE TO BE INSTALLED, THERE IS NO EXISTING FIXTURE AT THIS LOCATION.
- 3 NOT USED.
- 4 MATCH AND EXTEND EXISTING WIRING AND CONDUIT FROM EXISTING LIGHTING CIRCUIT TO NEW LIGHTING POLE.
- 5 NOT USED.
- 6 CONTRACTOR TO VERIFY EXISTING VOLTAGE BEFORE ORDERING FIXTURE. IF IT IS 480V PROVIDE SAME LIGHTING FIXTURE SPECIFIED BUT ONE THAT OPERATES ON A 480V INSTEAD OF MVOLT (120V-277V), SEE LIGHTING FIXTURE SCHEDULE ON E002.
- 7 NOT USED.



**ORANGE COUNTY
CORRECTIONS
SITE LIGHTING
UPGRADES**

Client
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400 East South St.
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Engineers:



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1/12/2017	PERMIT SET
5/23/2017	PERMIT SET
12/07/2018	BID SET

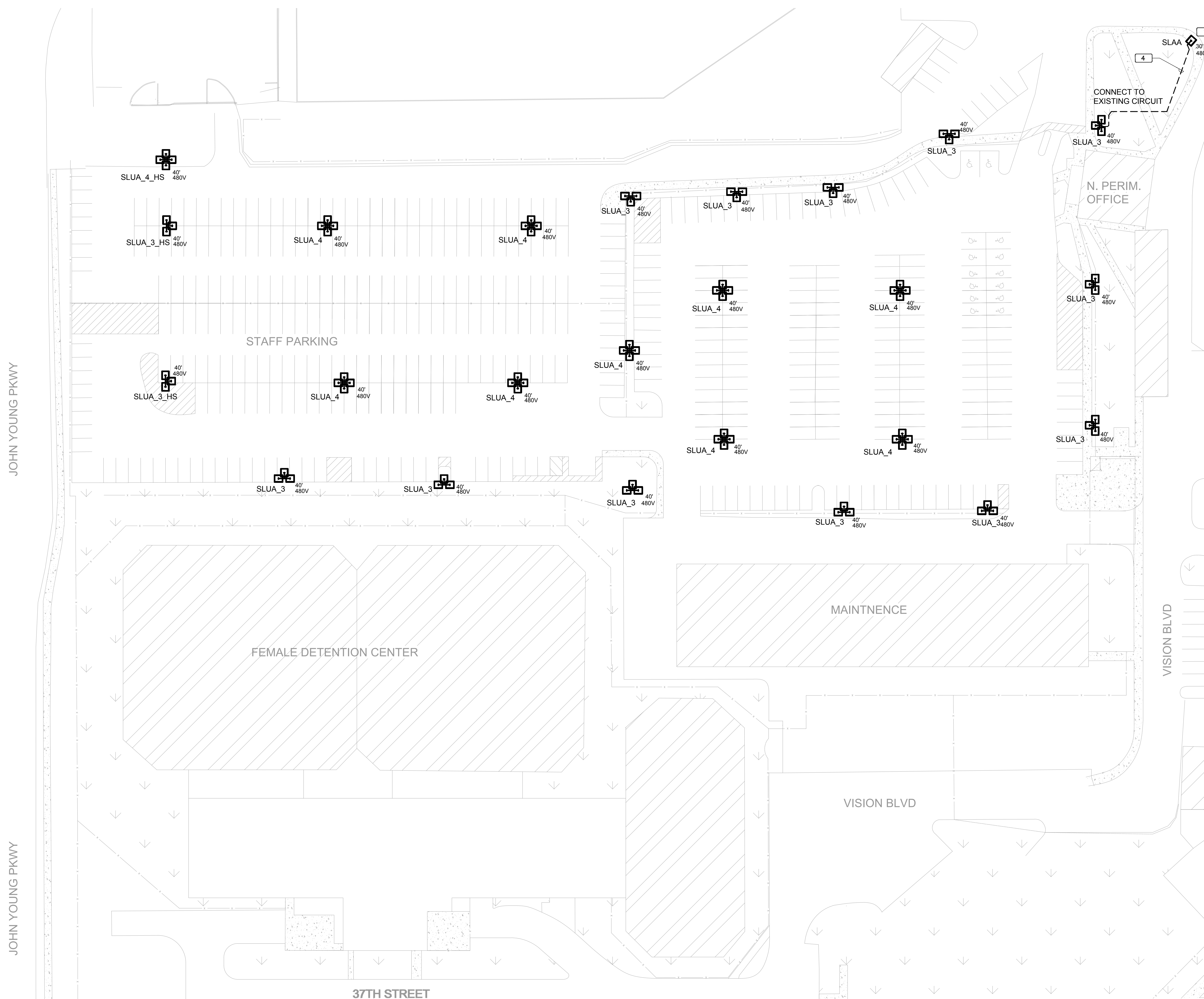
No.	By	Date	Revision
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**AREA B
LIGHTING PLAN**

Sheet Title
Job No. 15.0C.017
Date 12/07/2018
Drawn ME
Checked MKS

E202

Sheet No.

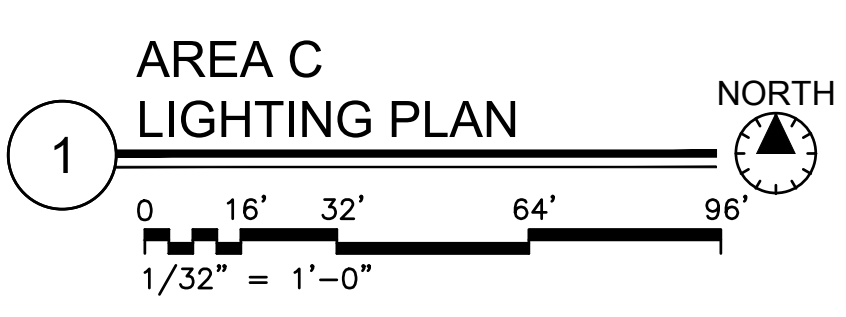


GENERAL NOTES:

1. ALL NEW POLE LIGHTING FIXTURES SHALL BE CONTROLLED THROUGH NEW ROAM CONTROL SYSTEM. CONTRACTOR TO REWIRE EXISTING LIGHTING CIRCUITS AT ELECTRICAL PANEL LOCATIONS TO BYPASS EXISTING CONTROL SYSTEM.
2. INSTALL ROAM WIRELESS CONTROL NODE ON EACH POLE MOUNTED FIXTURE. NODE MODEL # 'REN 127 DVX A0G' FOR CIRCUIT VOLTAGE 120/240/277 VAC OR MODEL # 'REN 480 DVX A0G' FOR CIRCUIT VOLTAGE 480 VAC.
3. UNDERGROUND CONDUITS IN PARKING AREAS TO BE INSTALLED VIA DIRECTIONAL BORING.
4. ALL LIGHTING FIXTURES SHOWN ON PLAN ARE "REPLACEMENT" IN EXISTING LOCATIONS UNLESS OTHERWISE NOTED WITH A NOTE 1 OR 2.
5. LIGHTING POLE HEIGHTS AND EXISTING VOLTAGE SYSTEMS ARE SHOWN ON PLAN NEXT TO LIGHTING FIXTURES.
6. UNDERGROUND PULL BOXES SHALL BE MONOLITHIC POLYMER CONCRETE, QUAZITE BY HUBBELL OR APPROVED EQUAL.
7. PROVIDE TEMPORARY LIGHTS ON AN AS NEEDED BASIS DURING CONSTRUCTION.
8. UPON COMPLETION OF WORK, CONTRACTOR SHALL FIELD VERIFY PHOTOMETRICS USING A DIGITAL LIGHT METER.
9. ON ALL EXISTING LIGHTING POLES, PROVIDE NEW WIRING FROM NEW LIGHTING FIXTURE TO POLE UNLESS POLE LOCATED AT THE BOTTOM OF THE

KEY PLAN NOTES:

- 1 NEW LIGHTING POLE AND FIXTURE TO BE INSTALLED. MATCH EXISTING POLE HEIGHTS & SPECIFICATIONS.
- 2 NEW WALL MOUNTED FIXTURE TO BE INSTALLED, THERE IS NO EXISTING FIXTURE AT THIS LOCATION.
- 3 NOT USED.
- 4 MATCH AND EXTEND EXISTING WIRING AND CONDUIT FROM EXISTING LIGHTING CIRCUIT TO NEW LIGHTING POLE.
- 5 NOT USED.
- 6 CONTRACTOR TO VERIFY EXISTING VOLTAGE BEFORE ORDERING FIXTURE. IF IT IS 480V PROVIDE SAME LIGHTING FIXTURE SPECIFIED BUT ONE THAT OPERATES ON A 480V INSTEAD OF MVOLT (120V-277V), SEE LIGHTING FIXTURE SCHEDULE ON E002.
- 7 NOT USED.



**ORANGE COUNTY
CORRECTIONS
SITE LIGHTING
UPGRADES**

Client
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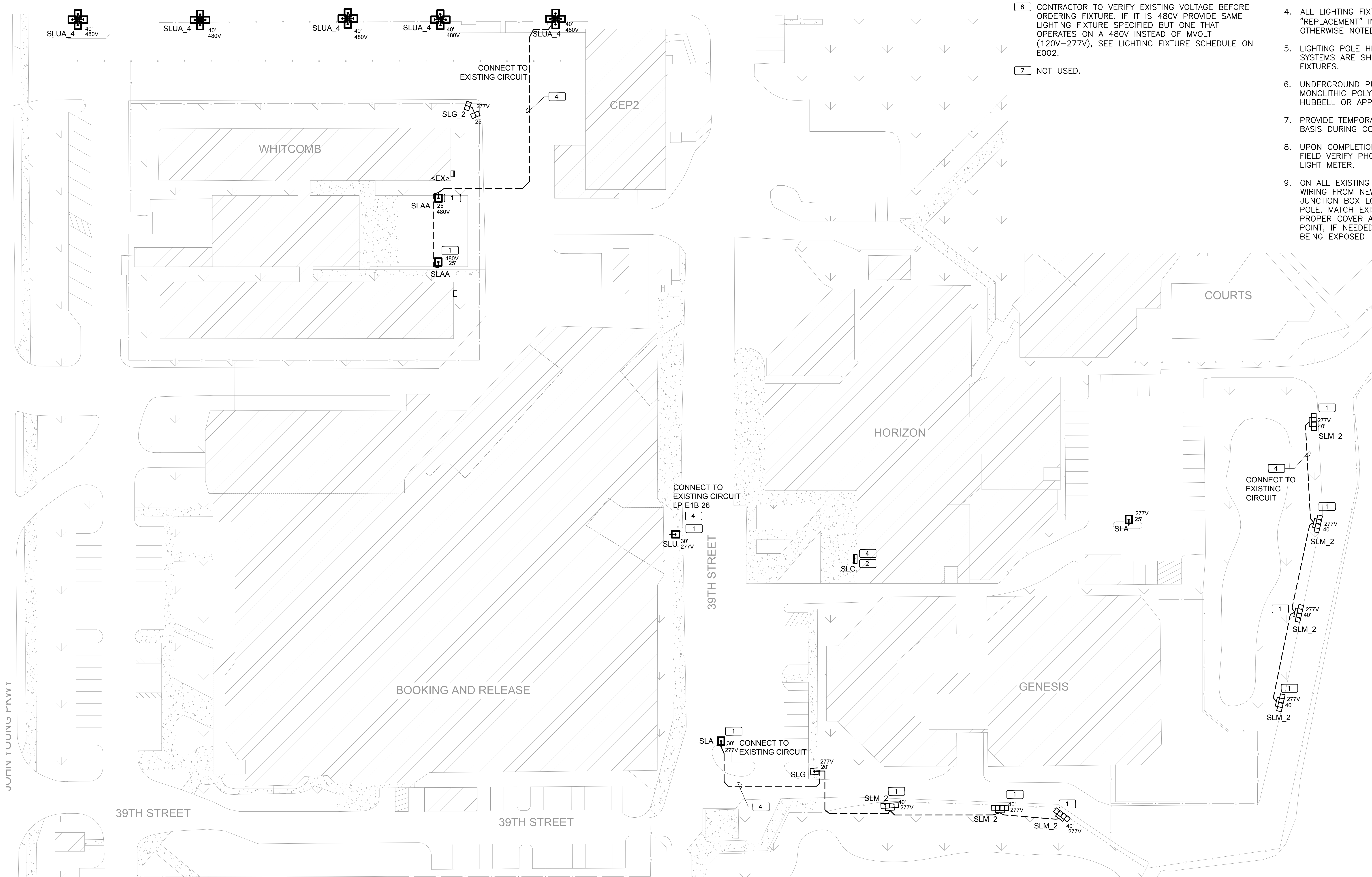
No.	By	Date	Revision
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**AREA C
LIGHTING PLAN**

Sheet Title
Job No. 15.OC.017
Date 12/07/2018
Drawn ME
Checked MKS

E203

Sheet No.



1
AREA D LIGHTING PLAN
 0 16' 32' 64' 96'
 1/32" = 1'-0"

KEY PLAN NOTES:

- 1 NEW LIGHTING POLE AND FIXTURE TO BE INSTALLED. MATCH EXISTING POLE HEIGHTS & SPECIFICATIONS.
- 2 NEW WALL MOUNTED FIXTURE TO BE INSTALLED. THERE IS NO EXISTING FIXTURE AT THIS LOCATION.
- 3 NOT USED.
- 4 MATCH AND EXTEND EXISTING WIRING AND CONDUIT FROM EXISTING LIGHTING CIRCUIT TO NEW LIGHTING POLE.
- 5 NOT USED.
- 6 CONTRACTOR TO VERIFY EXISTING VOLTAGE BEFORE ORDERING FIXTURE. IF IT IS 480V PROVIDE SAME LIGHTING FIXTURE SPECIFIED BUT ONE THAT OPERATES ON A 480V INSTEAD OF MVOLT (120V-277V), SEE LIGHTING FIXTURE SCHEDULE ON E002.
- 7 NOT USED.

GENERAL NOTES:

- 1. ALL NEW POLE LIGHTING FIXTURES SHALL BE CONTROLLED THROUGH NEW ROAM CONTROL SYSTEM. CONTRACTOR TO REWIRE EXISTING LIGHTING CIRCUITS AT ELECTRICAL PANEL LOCATIONS TO BYPASS EXISTING CONTROL SYSTEM.
- 2. INSTALL ROAM WIRELESS CONTROL NODE ON EACH POLE MOUNTED FIXTURE. NODE MODEL # "REN 127 DVX A0G" FOR CIRCUIT VOLTAGE 120/240/277 VAC OR MODEL # "REN 480 DVX A0G" FOR CIRCUIT VOLTAGE 480 VAC.
- 3. UNDERGROUND CONDUITS IN PARKING AREAS TO BE INSTALLED VIA DIRECTIONAL BORING.
- 4. ALL LIGHTING FIXTURES SHOWN ON PLAN ARE "REPLACEMENT" IN EXISTING LOCATIONS UNLESS OTHERWISE NOTED WITH A NOTE 1 OR 2.
- 5. LIGHTING POLE HEIGHTS AND EXISTING VOLTAGE SYSTEMS ARE SHOWN ON PLAN NEXT TO LIGHTING FIXTURES.
- 6. UNDERGROUND PULL BOXES SHALL BE MONOLITHIC POLYMER CONCRETE, QUAZITE BY HUBBELL OR APPROVED EQUAL.
- 7. PROVIDE TEMPORARY LIGHTS ON AN AS NEEDED BASIS DURING CONSTRUCTION.
- 8. UPON COMPLETION OF WORK, CONTRACTOR SHALL FIELD VERIFY PHOTOMETRICS USING A DIGITAL LIGHT METER.
- 9. ON ALL EXISTING LIGHTING POLES, PROVIDE NEW WIRING FROM NEW LIGHTING FIXTURE TO POLE JUNCTION BOX LOCATED AT THE BOTTOM OF THE POLE, MATCH EXISTING WIRING, AND PROVIDE PROPER COVER AT LIGHTING FIXTURE TERMINATION POINT, IF NEEDED, TO PROTECT WIRING FROM BEING EXPOSED.



ORANGE COUNTY CORRECTIONS SITE LIGHTING UPGRADES

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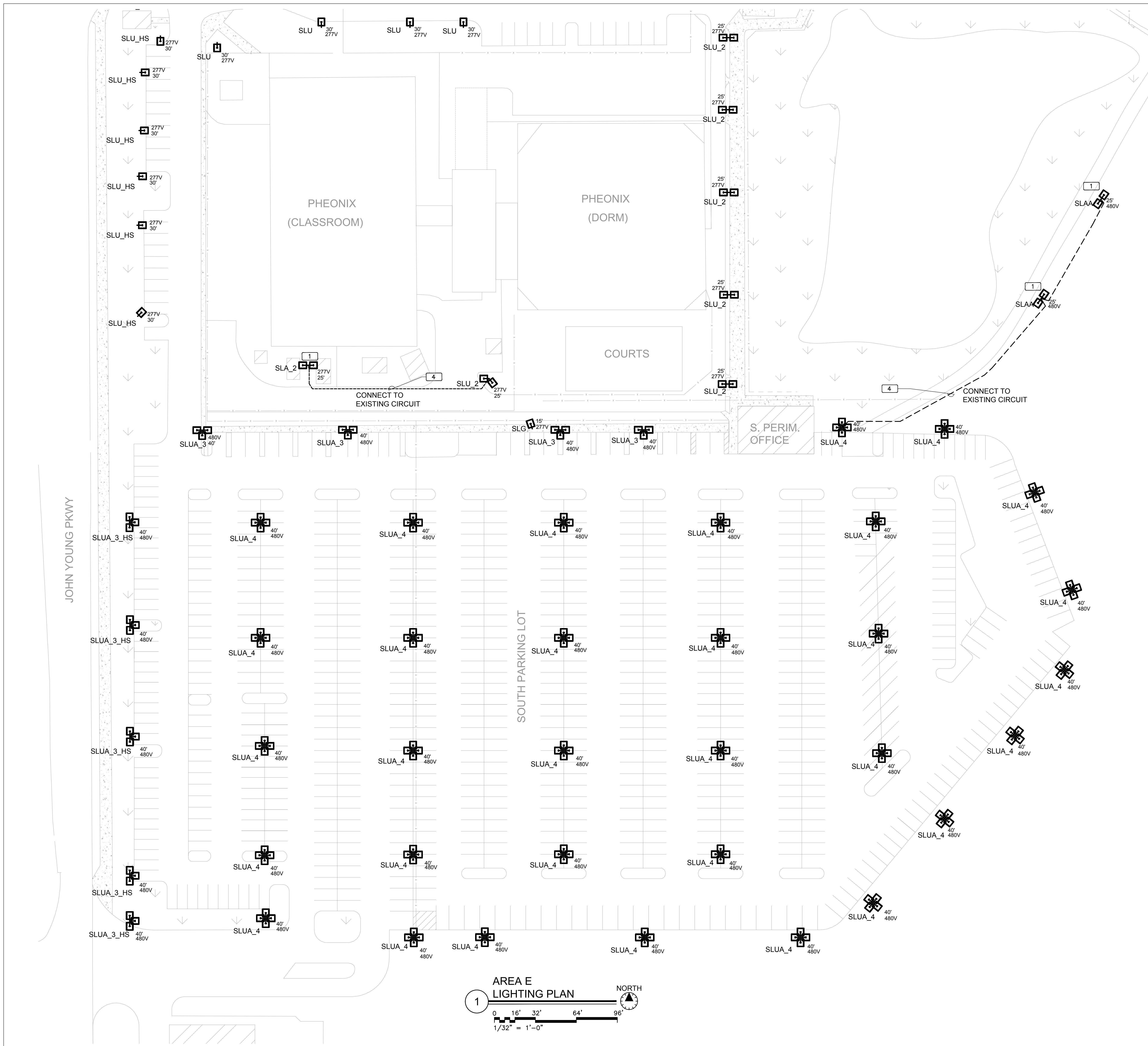
No.	By	Date	Revision
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1		06/22/2016	60% SUBMITTAL SET
2		10/17/2016	95% SUBMITTAL SET
3		1/12/2017	PERMIT SET
		5/23/2017	PERMIT SET
		12/07/2018	BID SET

AREA D LIGHTING PLAN

Sheet Title
 Job No. 15.OC.017
 Date 12/07/2018
 Drawn ME
 Checked MKS

E204

Sheet No.



1
AREA E
LIGHTING PLAN

0 16' 32' 64' 96'
1/32" = 1'-0"

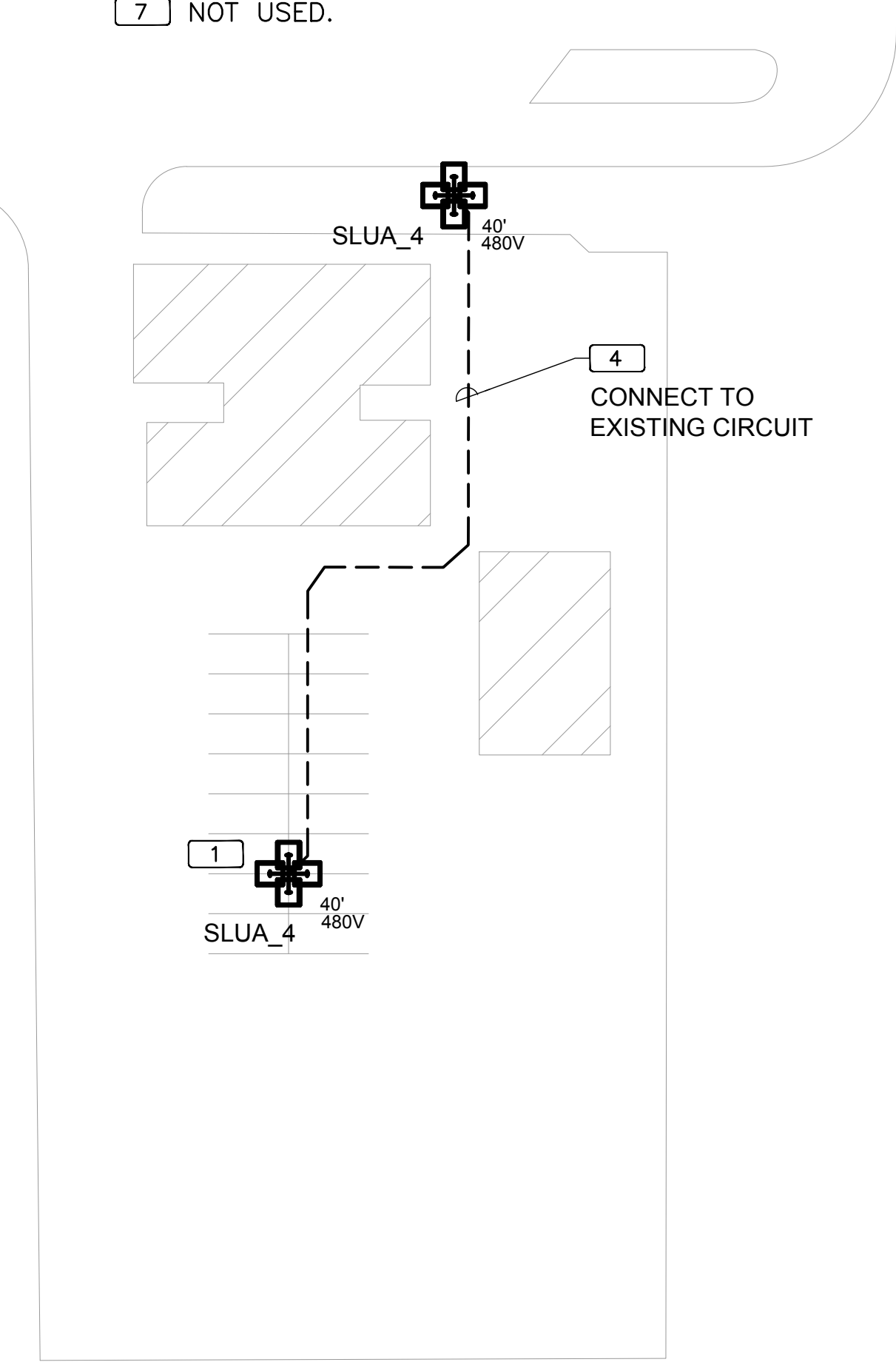
NORTH

GENERAL NOTES:

1. ALL NEW POLE LIGHTING FIXTURES SHALL BE CONTROLLED THROUGH NEW ROAM CONTROL SYSTEM. CONTRACTOR TO REWIRE EXISTING LIGHTING CIRCUITS AT ELECTRICAL PANEL LOCATIONS TO BYPASS EXISTING CONTROL SYSTEM.
2. INSTALL ROAM WIRELESS CONTROL NODE ON EACH POLE MOUNTED FIXTURE. NODE MODEL # 'REN 127 DVX A0G' FOR CIRCUIT VOLTAGE 120/240/277 VAC OR MODEL # 'REN 480 DVX A0G' FOR CIRCUIT VOLTAGE 480 VAC.
3. UNDERGROUND CONDUITS IN PARKING AREAS TO BE INSTALLED VIA DIRECTIONAL BORING.
4. ALL LIGHTING FIXTURES SHOWN ON PLAN ARE "REPLACEMENT" IN EXISTING LOCATIONS UNLESS OTHERWISE NOTED WITH A NOTE 1 OR 2.
5. LIGHTING POLE HEIGHTS AND EXISTING VOLTAGE SYSTEMS ARE SHOWN ON PLAN NEXT TO LIGHTING FIXTURES.
6. UNDERGROUND PULL BOXES SHALL BE MONOLITHIC POLYMER CONCRETE, QUAZITE BY HUBBELL OR APPROVED EQUAL.
7. PROVIDE TEMPORARY LIGHTS ON AN AS NEEDED BASIS DURING CONSTRUCTION.
8. UPON COMPLETION OF WORK, CONTRACTOR SHALL FIELD VERIFY PHOTOMETRICS USING A DIGITAL LIGHT METER.
9. ON ALL EXISTING LIGHTING POLES, PROVIDE NEW WIRING FROM NEW LIGHTING FIXTURE TO POLE JUNCTION BOX LOCATED AT THE BOTTOM OF THE POLE, MATCH EXISTING WIRING, AND PROVIDE PROPER COVER AT LIGHTING FIXTURE TERMINATION POINT, IF NEEDED, TO PROTECT WIRING FROM BEING EXPOSED.

KEY PLAN NOTES:

- 1 NEW LIGHTING POLE AND FIXTURE TO BE INSTALLED. MATCH EXISTING POLE HEIGHTS & SPECIFICATIONS.
- 2 NEW WALL MOUNTED FIXTURE TO BE INSTALLED, THERE IS NO EXISTING FIXTURE AT THIS LOCATION.
- 3 NOT USED.
- 4 MATCH AND EXTEND EXISTING WIRING AND CONDUIT FROM EXISTING LIGHTING CIRCUIT TO NEW LIGHTING POLE.
- 5 NOT USED.
- 6 CONTRACTOR TO VERIFY EXISTING VOLTAGE BEFORE ORDERING FIXTURE. IF IT IS 480V PROVIDE SAME LIGHTING FIXTURE SPECIFIED BUT ONE THAT OPERATES ON A 480V INSTEAD OF MVOLT (120V-277V), SEE LIGHTING FIXTURE SCHEDULE ON E002.
- 7 NOT USED.



2
AREA F
LIGHTING PLAN

0 16' 32' 64' 96'
1/32" = 1'-0"

NORTH



**ORANGE COUNTY
CORRECTIONS
SITE LIGHTING
UPGRADES**

Client
Orange County
Capital Projects
400 East South St.
Orlando, Florida 32801



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Engineer of Record

12/07/2018

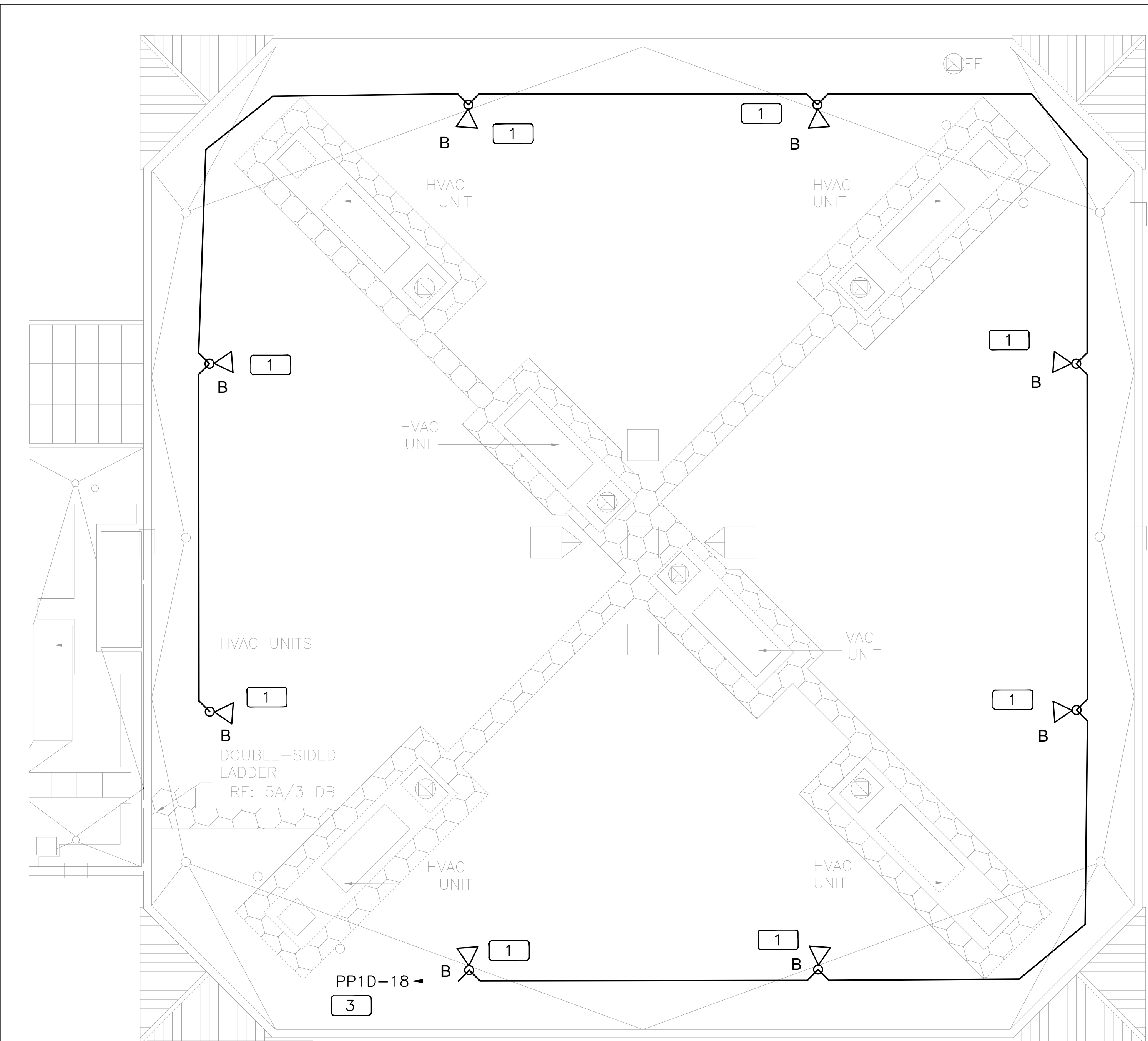
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10/17/2016	95% SUBMITTAL SET		
1/12/2017	PERMIT SET		
5/23/2017	PERMIT SET		
12/07/2018	BID SET		
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**AREA E/F
LIGHTING PLAN**

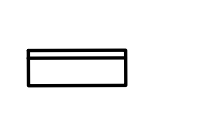
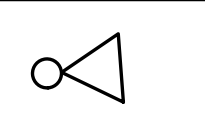
Sheet Title
Job No. 15.OC.017
Date 12/07/2018
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E205

Sheet No.



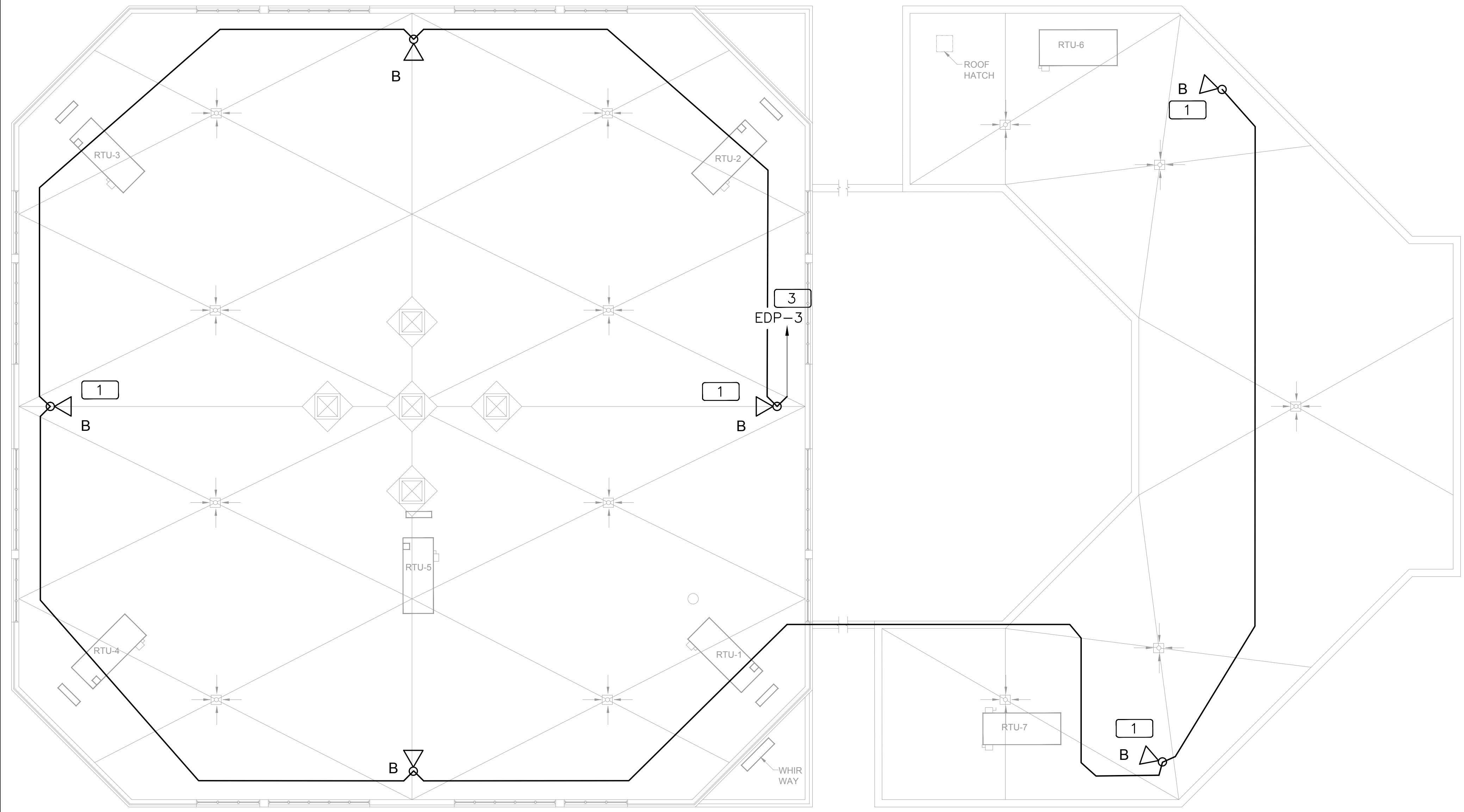
1 PHEONIX BUILDING ROOF PLAN NORTH
 0 4' 8' 16' 32'
 3/32" = 1'-0"

ROOF LIGHTING FIXTURE SCHEDULE				
TYPE	MANUFACTURER & PART NUMBER	DESCRIPTION	WATTAGE	VOLTAGE
	A LITHONIA OFL1 LED P2 40K MVOLT YK DDBXD	WALL MOUNTED LED FLOOD LIGHT	49W	120VOLT
	B LITHONIA OFL2 LED P2 40K MVOLT IS DDBXD	POLE MOUNTED LED FLOOD LIGHT	121W	120VOLT

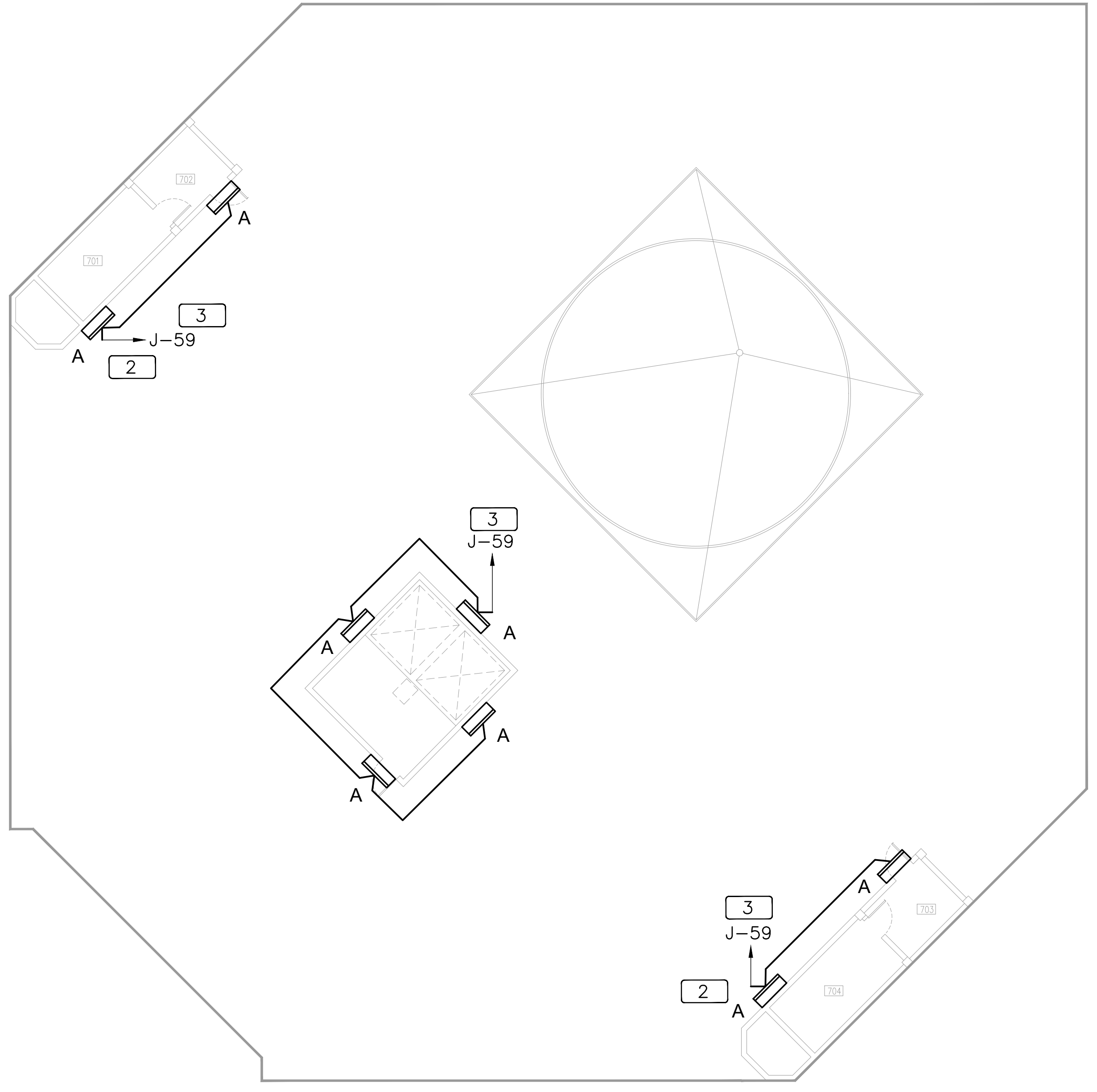
1. CONTRACTOR SHALL PROVIDE SUBMITTAL OF ALL FIXTURES TO OWNER AND ARCHITECT. SUBMITTAL SHALL BE APPROVED BY OWNER, ARCHITECT AND ENGINEER PRIOR TO ORDERING ANY FIXTURES. IT IS THE RESPONSIBILITY OF THE LIGHTING VENDOR TO ENSURE OWNER & ARCHITECT HAVE SIGNED OFF ON SUBMITTALS. RTM ENGINEERING WILL NOT BE RESPONSIBLE FOR DESIGN INTENT OF FIXTURES NOT MEETING OWNER'S OR ARCHITECT'S EXPECTATIONS.
 2. ANY ADDITIONAL ENGINEERING COST FOR RE-WORK OR EXTRA SUBMITTAL EVALUATION FOR SUBSTITUTIONS SHALL BE PAID FOR BY GENERAL CONTRACTOR.
 NOTE : PROVIDE QUICK DISCONNECT FOR BALLAST PER NEC 2008 410.73(G).

KEY PLAN NOTES:

- 1 NEW LIGHTING FIXTURE, INSTALL ON A STANCHION, SEE DETAIL ON SHEET E602.
- 2 NEW WALL MOUNTED FIXTURE TO BE INSTALLED, CURRENTLY THERE IS NO FIXTURE IN THIS LOCATION.
- 3 WIRE THROUGH EXISTING LIGHTING CONTROLS.



2 GENESIS BUILDING ROOF PLAN NORTH
 0 4' 8' 16' 32'
 3/32" = 1'-0"



3 BUILDING E ROOF PLAN NORTH
 0 4' 8' 16' 32'
 3/32" = 1'-0"



**ORANGE COUNTY
CORRECTIONS
SITE LIGHTING
UPGRADES**

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1/12/2017	PERMIT SET
5/23/2017	PERMIT SET
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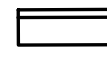
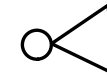
**GENESIS, PHOENIX
& BLDG E
ROOF LIGHTING
PLANS**

Sheet Title
 Job No. 15.0C.017
 Date 12/07/2018
 Drawn ME
 Checked MKS

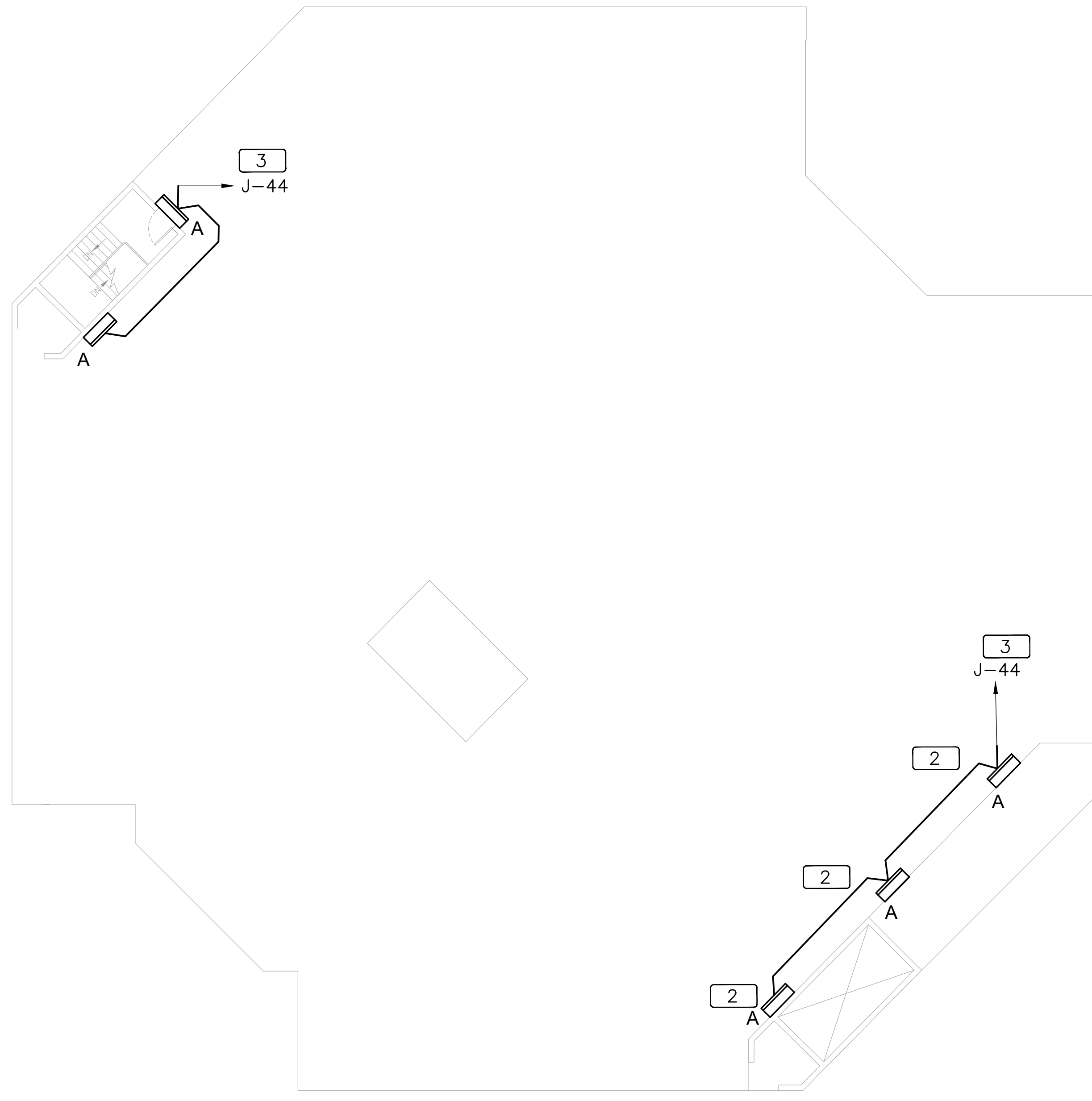
E401

Sheet No.

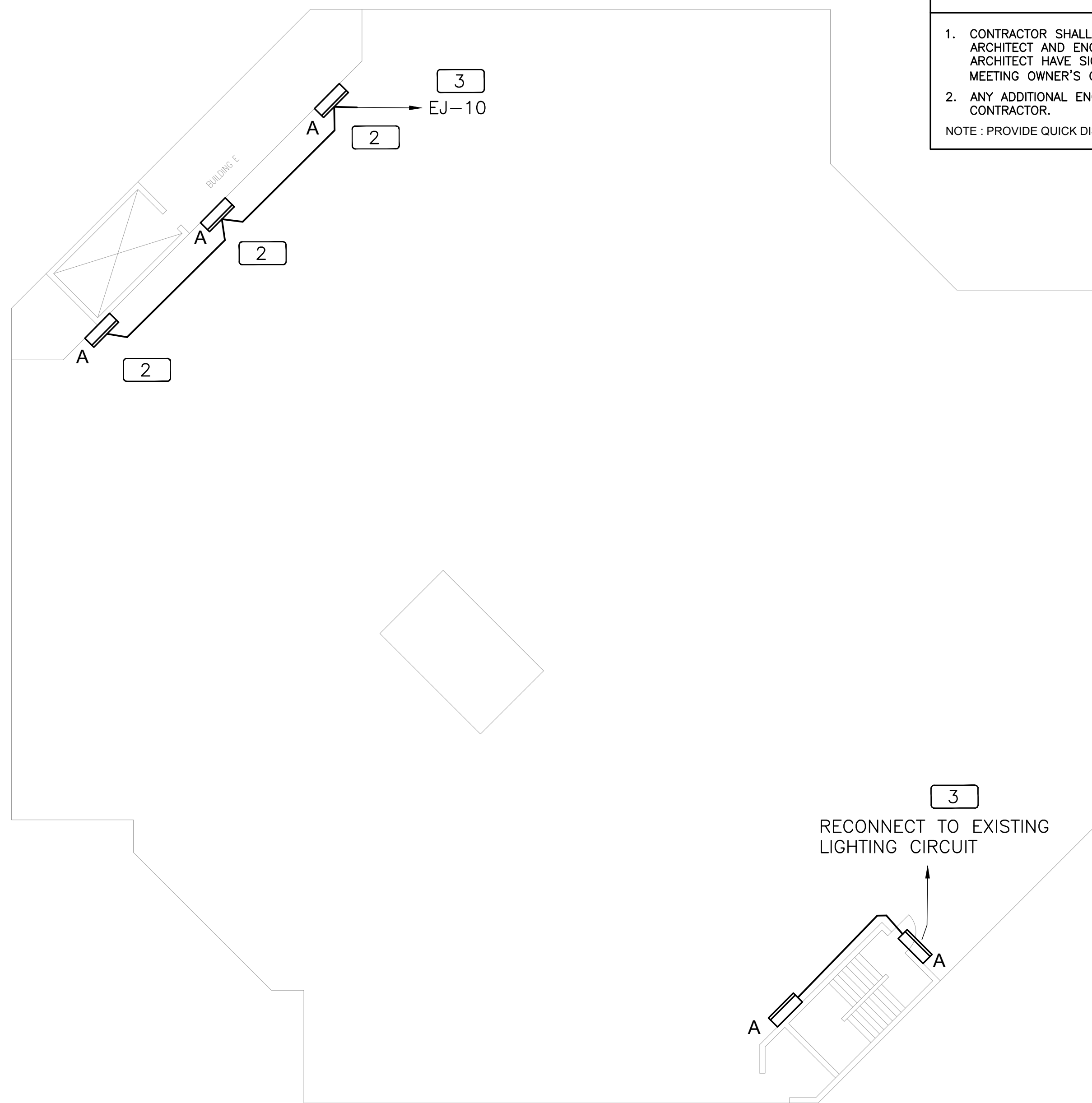
Plot Date: Dec 07, 2018 - 9:24am - OC CORRECTIONS SITE LIGHTING - ELEC.dwg

ROOF LIGHTING FIXTURE SCHEDULE				
TYPE	MANUFACTURER & PART NUMBER	DESCRIPTION	WATTAGE	VOLTAGE
 A	LITHONIA OFL1 LED P2 40K MVOLT YK DDBXD	WALL MOUNTED LED FLOOD LIGHT	49W	MVOLT
 B	LITHONIA OFL2 LED P2 40K MVOLT IS DDBXD	POLE MOUNTED LED FLOOD LIGHT	121W	MVOLT

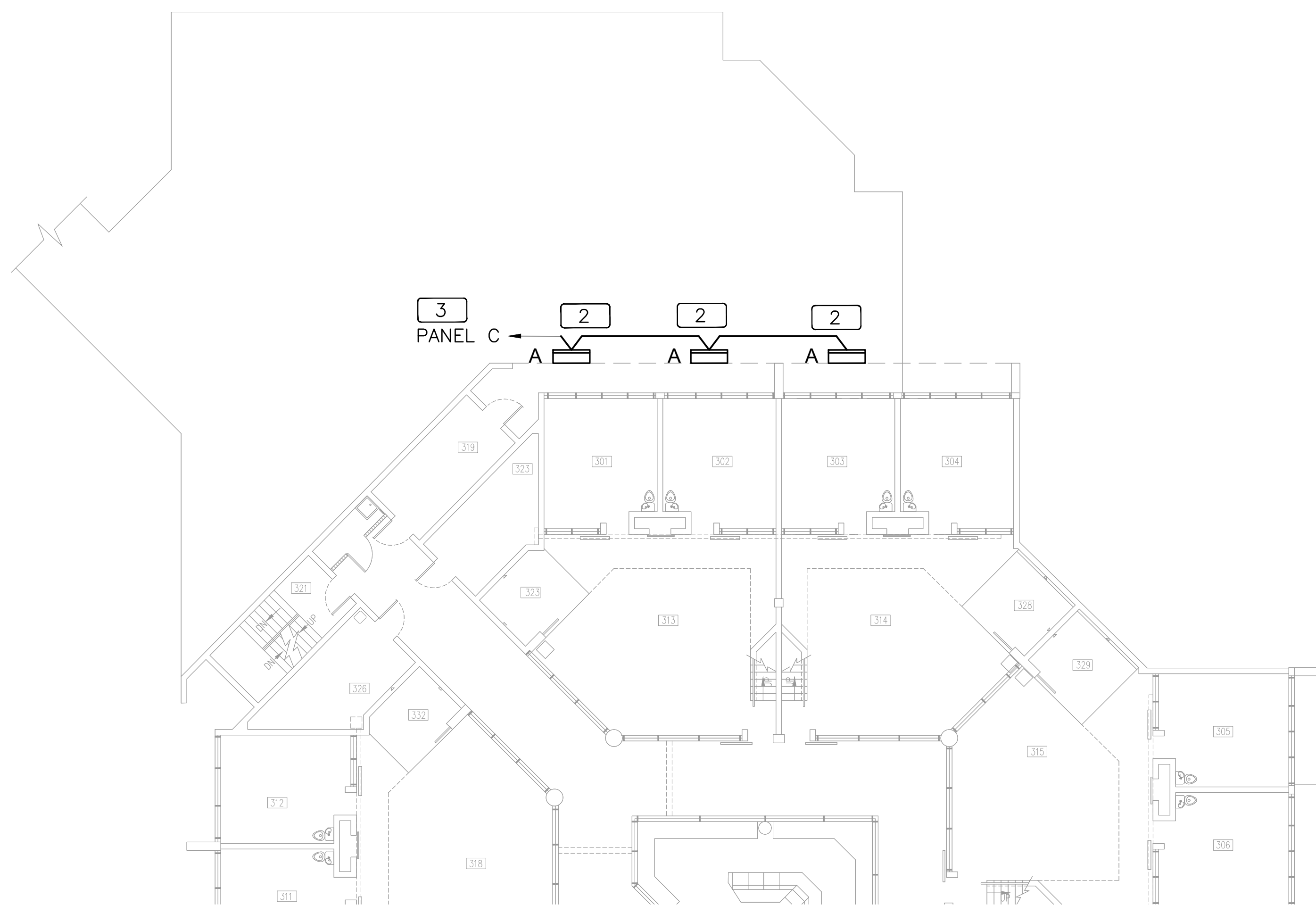
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 2. ANY ADDITIONAL ENGINEERING COST FOR RE-WORK OR EXTRA SUBMITTAL EVALUATION FOR SUBSTITUTIONS SHALL BE PAID FOR BY GENERAL CONTRACTOR.
 NOTE: PROVIDE QUICK DISCONNECT FOR BALLAST PER NEC 2008 410.73(G).



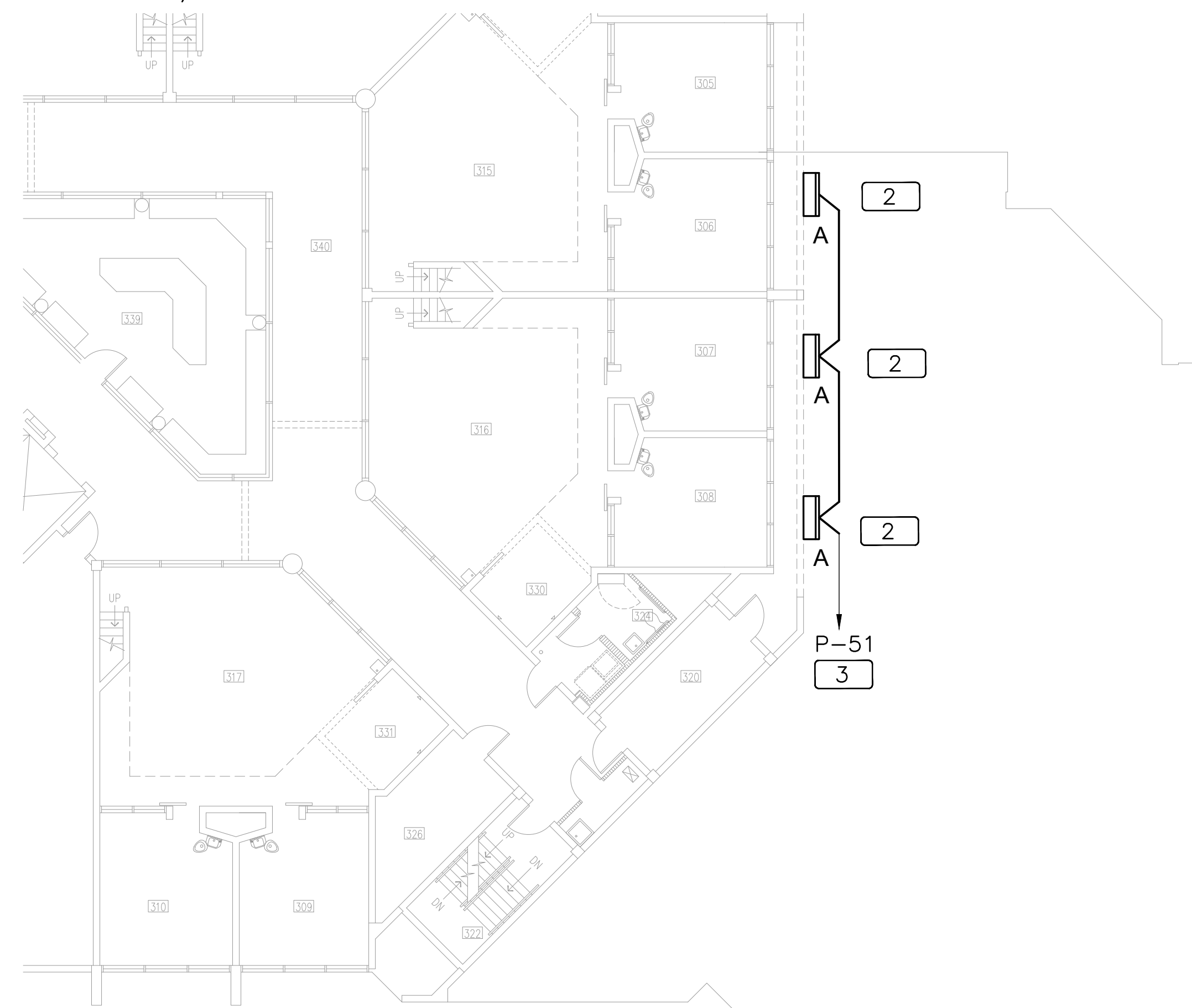
1 BUILDING D UPPER ROOF PLAN NORTH
 0 4' 8' 16' 32'
 3/32" = 1'-0"



3 BUILDING F UPPER ROOF PLAN NORTH
 0 4' 8' 16' 32'
 3/32" = 1'-0"



2 BUILDING D LOWER ROOF PLAN NORTH
 0 4' 8' 16' 32'
 3/32" = 1'-0"



4 BUILDING F LOWER ROOF PLAN NORTH
 0 4' 8' 16' 32'
 3/32" = 1'-0"

KEY PLAN NOTES:

- 1 NEW LIGHTING FIXTURE, INSTALL ON A STANCHION, SEE DETAIL ON SHEET E602.
- 2 NEW WALL MOUNTED FIXTURE TO BE INSTALLED, CURRENTLY THERE IS NO FIXTURE IN THIS LOCATION.
- 3 WIRE THROUGH EXISTING LIGHTING CONTROLS.



**ORANGE COUNTY
CORRECTIONS
SITE LIGHTING
UPGRADES**

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No.	By	Date	Revision
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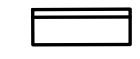

3

**BUILDINGS D & F
ROOF LIGHTING
PLANS**

Sheet Title
 Job No. 15.OC.017
 Date 12/07/2018
 Drawn ME
 Checked MKS

E402

Sheet No.

ROOF LIGHTING FIXTURE SCHEDULE				
TYPE	MANUFACTURER & PART NUMBER	DESCRIPTION	WATTAGE	VOLTAGE
 A	LITHONIA OFL1 LED P2 40K MVOLT YK DDBXD	WALL MOUNTED LED FLOOD LIGHT	49W	MVOLT
 B	LITHONIA OFL2 LED P2 40K MVOLT IS DDBXD	POLE MOUNTED LED FLOOD LIGHT	121W	MVOLT

1. CONTRACTOR SHALL PROVIDE SUBMITTAL OF ALL FIXTURES TO OWNER AND ARCHITECT. SUBMITTAL SHALL BE APPROVED BY OWNER, ARCHITECT AND ENGINEER PRIOR TO ORDERING ANY FIXTURES. IT IS THE RESPONSIBILITY OF THE LIGHTING VENDOR TO ENSURE OWNER & ARCHITECT HAVE SIGNED OFF ON SUBMITTALS. RTM ENGINEERING WILL NOT BE RESPONSIBLE FOR DESIGN INTENT OF FIXTURES NOT MEETING OWNER'S OR ARCHITECT'S EXPECTATIONS.

2. ANY ADDITIONAL ENGINEERING COST FOR RE-WORK OR EXTRA SUBMITTAL EVALUATION FOR SUBSTITUTIONS SHALL BE PAID FOR BY GENERAL CONTRACTOR.

NOTE : PROVIDE QUICK DISCONNECT FOR BALLAST PER NEC 2008 410.73(G).



**ORANGE COUNTY
CORRECTIONS
SITE LIGHTING
UPGRADES**

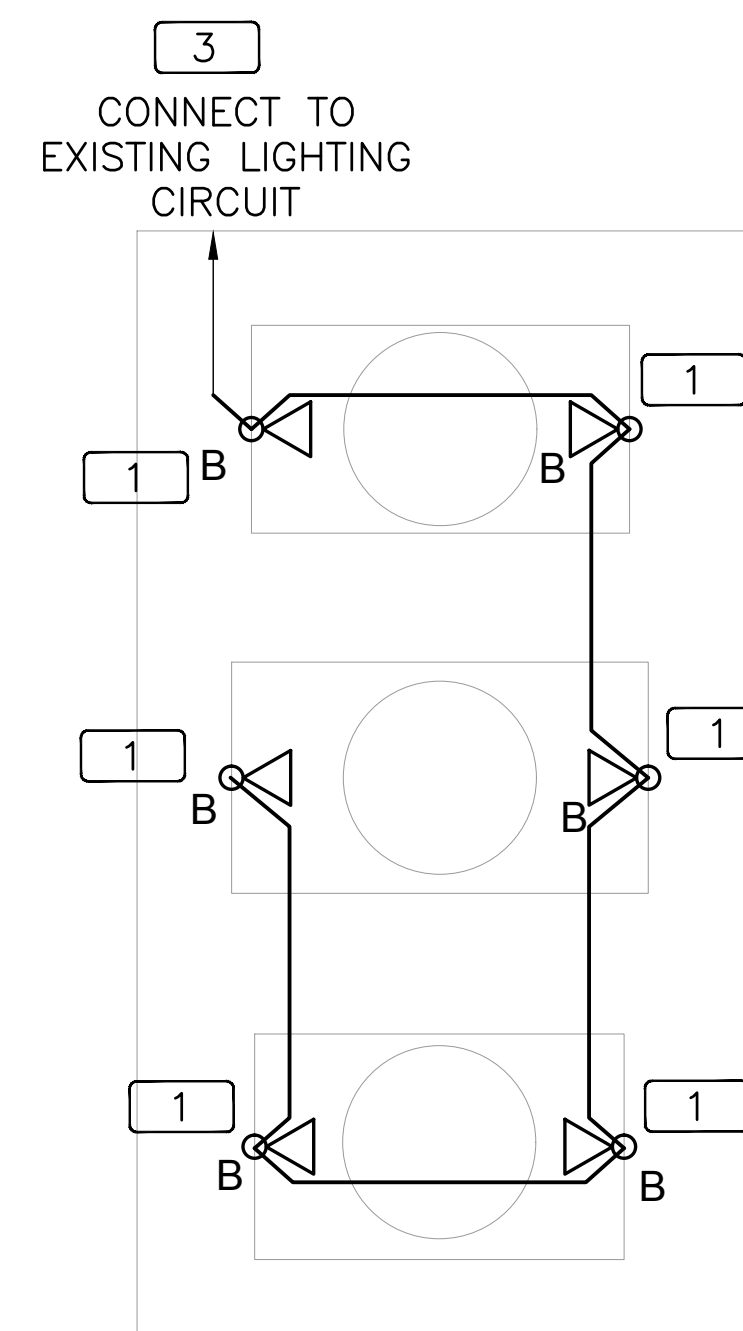
Client
Orange County
Capital Projects
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Orlando, Florida 32801

Engineers:



KEY PLAN NOTES:

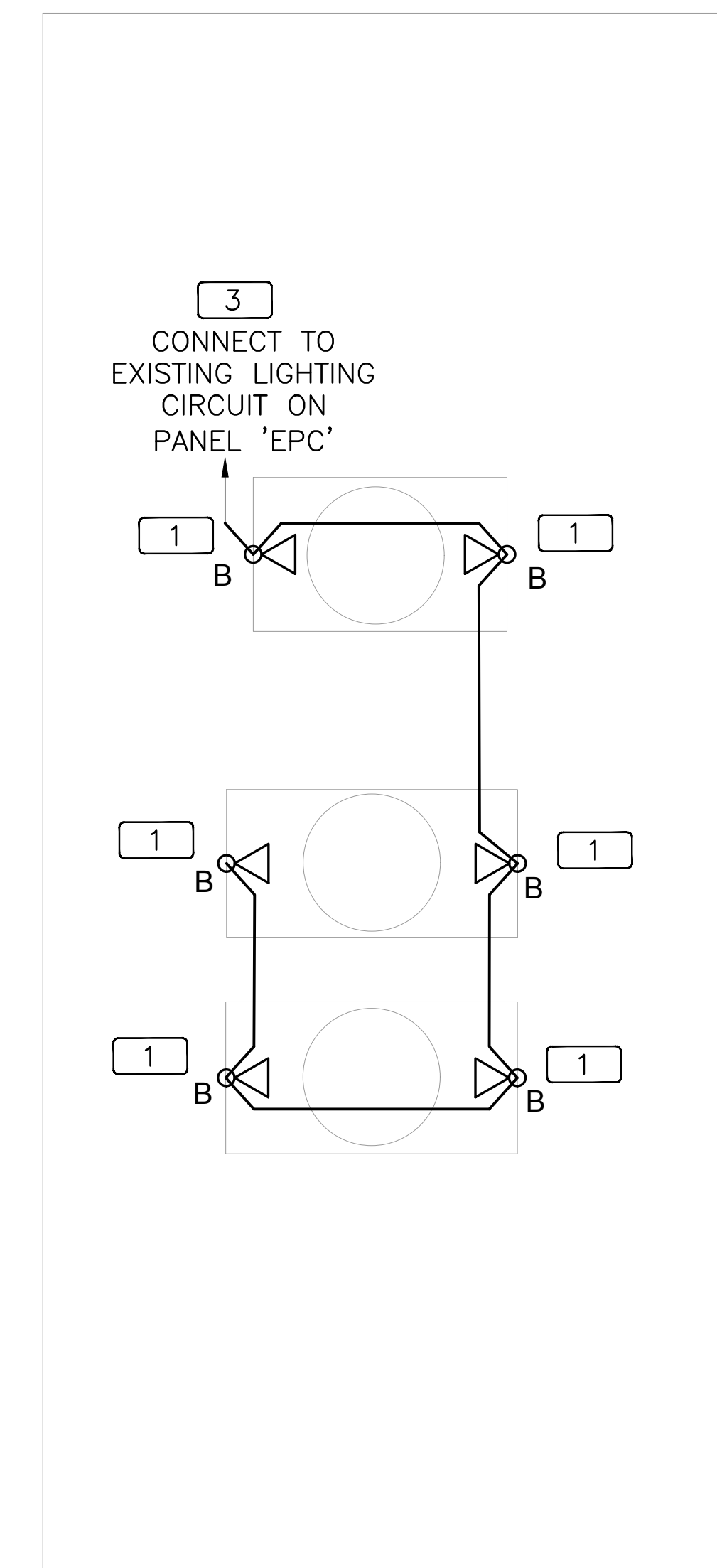
- 1 NEW LIGHTING FIXTURE, INSTALL ON A STANCHION, SEE DETAIL ON SHEET E602.
- 2 NEW WALL MOUNTED FIXTURE TO BE INSTALLED, CURRENTLY THERE IS NO FIXTURE IN THIS LOCATION.
- 3 WIRE THROUGH EXISTING LIGHTING CONTROLS.



1 CEP1 ROOF PLAN

0 4' 8' 16' 32'
3/32" = 1'-0"

NORTH



2 CEP2 ROOF PLAN

0 4' 8' 16' 32'
3/32" = 1'-0"

NORTH

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**CEP1 & CEP2
ROOF LIGHTING
PLANS**

Sheet Title
Job No. 15.OC.017
Date 12/07/2018
Drawn ME
Checked MKS

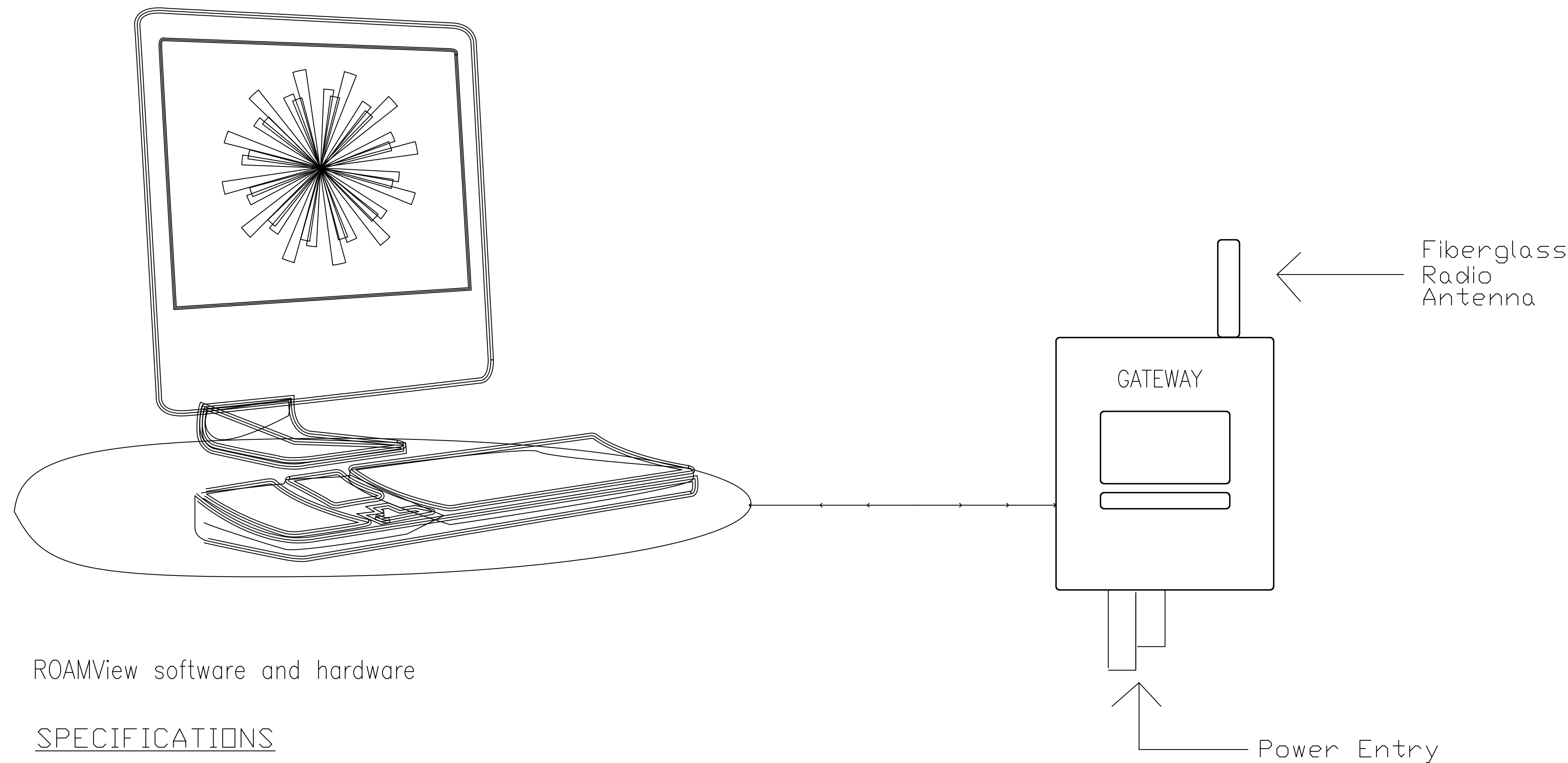
E403

Sheet No.

ROAMview

Wireless Outdoor Lighting Control

ROAMview software to be provided by Acuity Brands Controls. Engineer sheet E101 to be used to show all individually controlled fixtures on the network with the ability to zoom into individual sheets for areas A, B, C, D, E and F. Software to be set up and programmed by Acuity Brands and onsite training provided by factory trained technician. Timeclock schedules provided by owner and programmed by Acuity.



ROAMView software and hardware

SPECIFICATIONS

Dell OptiPlex 7010 Mini Tower
 Intel i7/i5 Quad Core Processor
 4GBB RAM
 Mouse & Keyboard
 500 GB HD (7200RPM)
 Windows 7 Professional

OVERVIEW

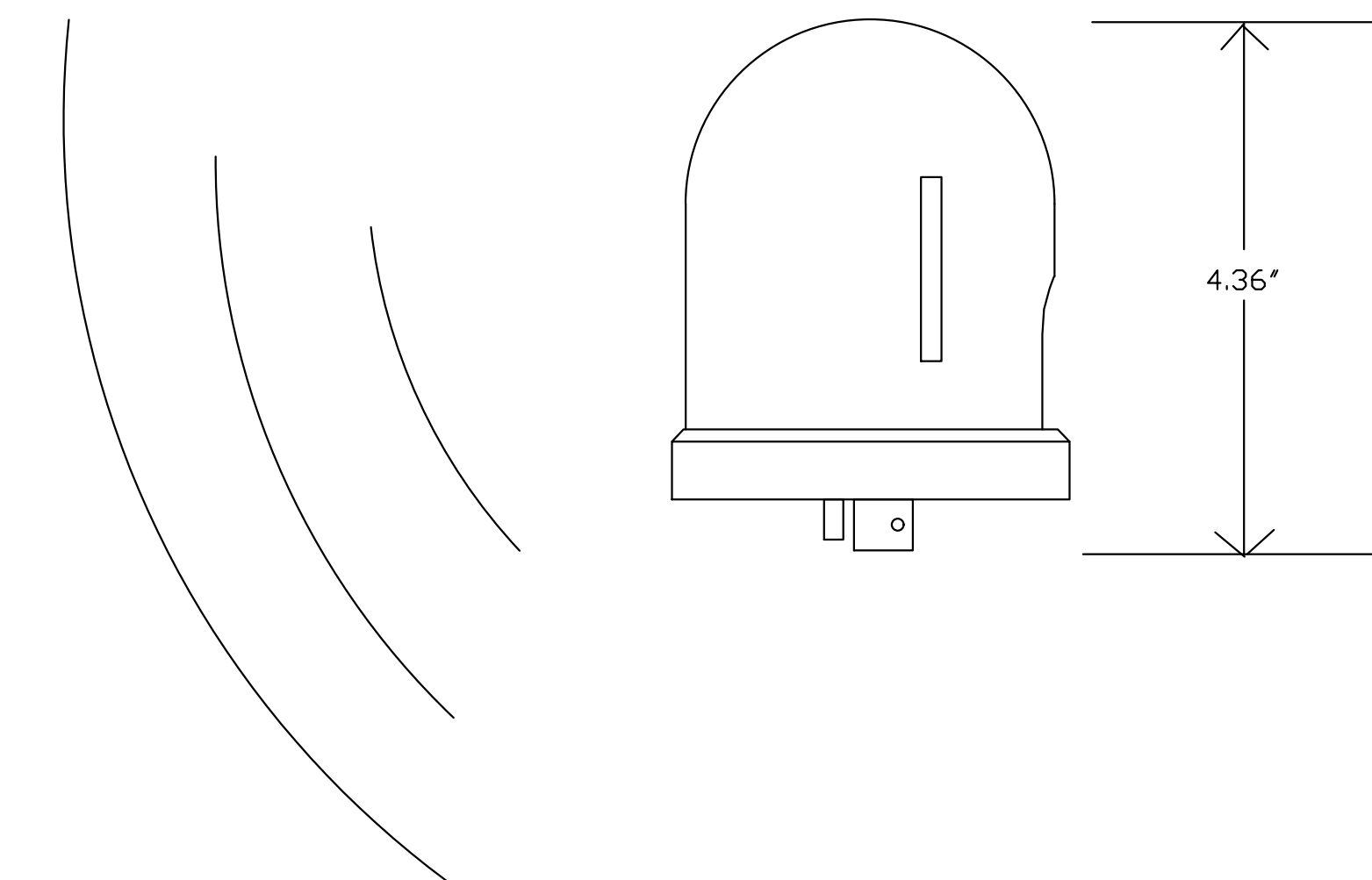
User portal accessible by web browser
 Interactive map of installation area
 Daily operational performance of each fixture
 Reports (Device list, Burn Hours, Energy Usage, Daily Summary)
 Override command of lights (On, Off, Dim)
 Grouping of devices
 Schedule and event control commands
 Commissioning of installed ROAM devices via portal
 BACnet/IP driver optional

ROAM Gateway
 To be mounted on exterior of proshop
 Enables wireless communication to each NODE.
 REG127

SPECIFICATIONS
 - WIRELESS ENABLED BACKBONE AND DATA BACKHAUL DEVICE
 - WIRELESS ENABLED COMMUNICATION
 - 2.4 GHz- IEEE 802.15.4 compatible
 - Cellular network uplink- GSM, GPRS, CDMA, modem
 - Ethernet link for optional WAN connection via internet
 - FCC part 15 approved
 - 1,000 foot clear line of site
 - Supports up to 2,000 devices

OVERVIEW
 - 320J MDV - 9,500 amp surge protection
 - Voltage 100-305 VAC
 - -40 to +65°C ambient
 - Wall or Mast arm mounting (1-3 inch pipe)
 - Power indicator
 - Powered through standard locking type receptacle on fixture
 - 3 foot cable and locking type plug included
 - Average power consumption: 5.5 watts
 - Maximum power consumption: 12 watts
 - Maximum EPA is 1.87 sq. ft.
 - The unit weight is 7 lbs.
 - Cast aluminum housing
 - Cast aluminum articulating mounting bracket
 - Fiberglass radio antenna
 - Enclosure is IP66 rated

ROAM wireless control Node
 Installed on each pole mounted fixture
 'REN127 DVX A □ G' or 'REN480 DVX A □ G'
 For ON/OFF and Dimming control



ROAM Enabled Node
WIRELESS ENABLED COMMUNICATION
 2.4GHz -IEEE 802.15.4 compatible
 FCC part 15 approved
 Range - 1,000 foot clear line of sight

WIRELESS CONTROL
 Remote on/off/dim control
 Grouped scheduling (energy savings)
ATTRIBUTES
 25-1,000 watt fixtures; Voltage 70-305VAC or 480VAC 60Hz
 1060J MDV - 10KA amp surge protection
 Zero cross relay switching for superior inrush protection
 Average Power consumption 1.6 watts
 Maximum Power consumption: 2.2 watts
 Complies with ANSI C136.10, ANSI C136.41, and FCC part 15
 -40 to +70°C ambient
 ANSI- Standard 2 to 5 second turn off delay

ON-BOARD GPS
 Activation free installation. Plug and play
 Automatically determines and reports GPS location.
 Sub 2 meter accuracy typical
 Automatically determines and reports fixture voltage and wattage
 Automatically determines lamp type (HID vs LED)
 Automatically determines if fixture is dimming enabled including low/high fixture wattage limits

REVENUE GRADE ENERGY MEASUREMENT
 Accuracy class of 0.5% per ANSI C12.20
 Dedicated energy computation processor
 Dedicated non-volatile memory
 Revenue grade energy measurement (0.5%) and reporting

INTEGRAL DIMMING
 0-10 Volt Dimming
 ANSI C136.41 compliant dimming interface
 Eliminates need for ROAM DCM module inside fixture
 Supports up to 5 drivers (2 mA per driver) sink or source operation



**ORANGE COUNTY
 CORRECTIONS
 SITE LIGHTING
 UPGRADES**

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 Capital Projects
 400 East South St.
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5/23/2017 PERMIT SET

12/07/2018 BID SET

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**LIGHTING
 CONTROL DETAIL**

Sheet Title

Job No. 15.0C.017

Date 12/07/2018

Drawn ME

Checked MKS

E501

Sheet No.

Catalog Number: _____ Date: _____ Project: _____

OVERVIEW

- 3300 MOV, 9.500 amp surge protection
- Voltage 100-305 VAC
- -40 to +65°C ambient
- Wall or Mast arm mounting (1-3 inch pipe)
- Power indicator
- Powered through standard locking type receptacle on fixture
- -3 foot cable and locking type plug included
- Average power consumption: 5.5 watts
- Maximum power consumption: 12 watts
- Maximum EPR is 1.87 sq. ft.
- The unit weight is 7 lbs.
- Cast aluminum housing
- Cast aluminum articulating mounting bracket
- Fiberglass radio antenna
- Enclosure is IP66 rated

SPECIFICATIONS

WIRELESS ENABLED BACKHOLE AND DATA BACKHAUL DEVICE

- 2.4 GHz IEEE 802.15.4 compatible
- Cellular network uplink through GSM/GPRS
- Ethernet link for optional WAN connection via internet
- FCC part 15 approved
- CSA approved
- 1,000 foot clear line of site
- Supports up to 2,000 devices

Warranty

Three-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/terms_and_conditions.aspx

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

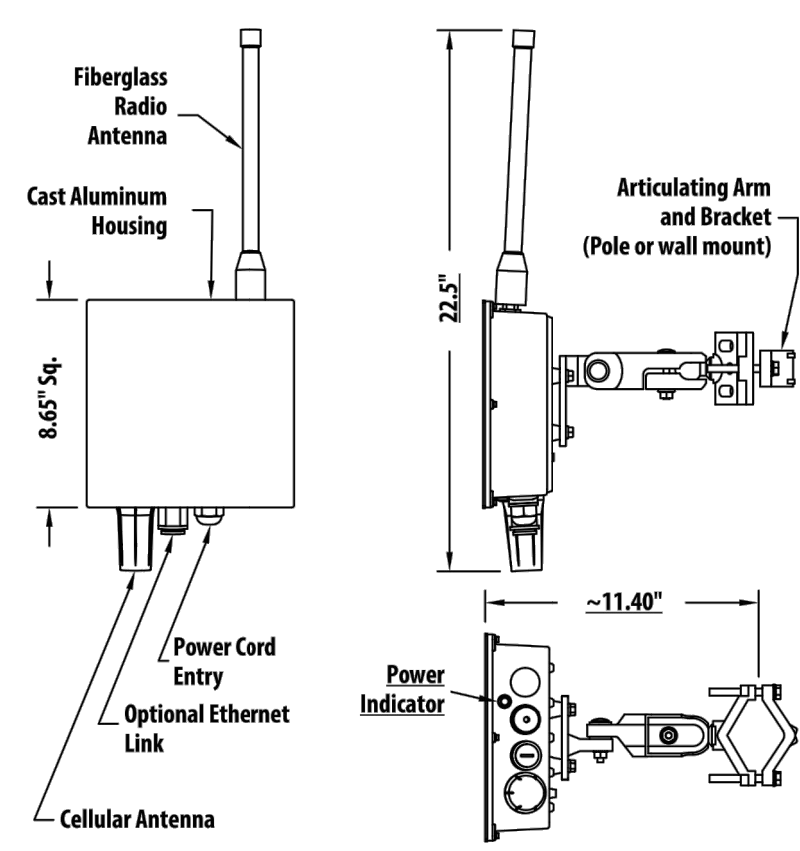
Specifications subject to change without notice.

ORDERING INFORMATION

REG127		Example: REG127 WX5*		
Model & Voltage	Model	Color	System	
REG127 120/240/277V (100-305)	EX Compact Mast Arm Mount: Ethernet WX Compact Mast Arm Mount: Wireless	S Gray	[blank] ROAM V ROAMview E Enterprise	

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DIMENSIONS



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Catalog Number: _____ Date: _____ Project: _____

OVERVIEW

- User portal accessible by web browser
- Interactive map of installation area
- Daily operational performance of each fixture
- Reports (Device list, Burn Hours, Energy Usage, Daily Summary)
- Override command of lights (On, Off, Dim)
- Grouping of devices
- Schedule and event control commands
- Commissioning of installed ROAM devices via portal
- BACnet/IP driver optional

SPECIFICATIONS

- Dell OptiPlex 7010 Mini Tower
- Intel i3 processor
- 4GB RAM
- Mouse & Keyboard
- 500 GB HD (7200RPM)
- Windows 7 Professional

Warranty

Three-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/terms_and_conditions.aspx

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

Specifications subject to change without notice.

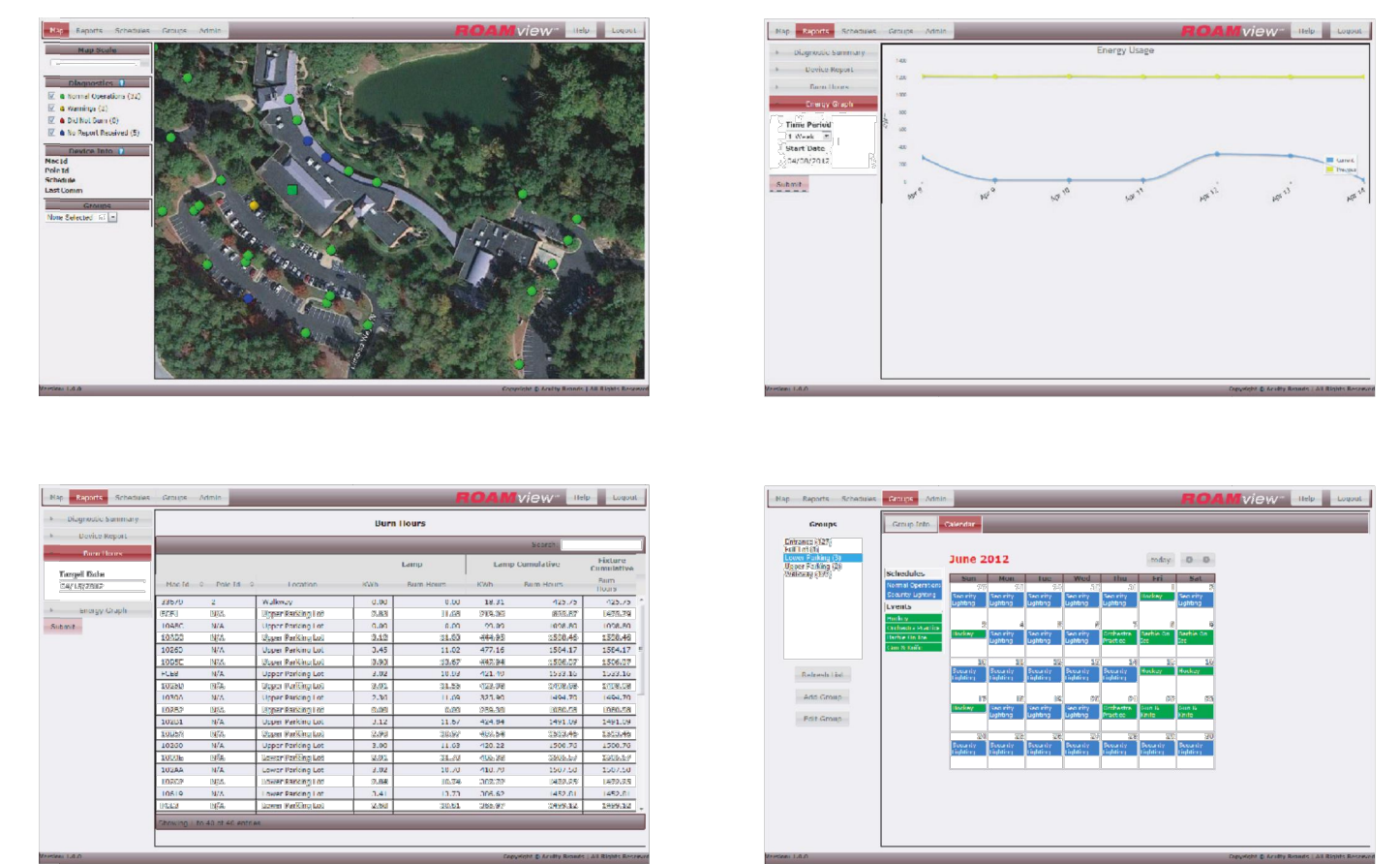
ORDERING INFORMATION

ROAMVIEW™	Example: ROAMVIEW
Model	ROAMVIEW
Optional Driver	ROAMVIEW BACNET*

*ROAMVIEW BACNET must be ordered in addition to the ROAMVIEW series.

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INTERFACE DESIGN



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Catalog Number: _____ Date: _____ Project: _____

FEATURES

ROAM DIAGNOSTICS OVERVIEW

- Fixture malfunction (lamp, ballast or starter failure)
- Cycling
- Dayburner
- No report (communication, power or equipment failure)
- Unspecified malfunction
- Power (power factor, kWh, voltage or power quality alerts)

SPECIFICATIONS

WIRELESS ENABLED COMMUNICATION

- 2.4GHz IEEE 802.15.4 compatible
- FCC part 15 approved
- Range -1,000 foot clear line of sight

WIRELESS CONTROL

- Remote on/off/dim control
- Grouped scheduling (energy savings)
- ATTRIBUTES
- 25-1,000 watt fixtures; Voltage 70-305VAC, 60Hz
- 1300J MOV, 10KA amp surge protection
- Zero cross relay switching for superior inrush protection
- Average Power consumption 1.6 watts
- Maximum Power consumption 2.2 watts
- Complies with ANSI C136.10, ANSI C136.41, and FCC part 15
- -40 to +70°C ambient
- ANSI Standard 2 to 5-second turn off delay

ON-BOARD GPS (OPTIONAL)

- Activation free installation. Plug and play
- Automatically determines and reports GPS location; Sub 2 meter accuracy typical
- Automatically determines and reports fixture voltage and wattage
- Automatically determines lamp type (HID vs LED)
- Automatically determines if fixture is dimming enabled including low/high fixture wattage limits

REVENUE GRADE ENERGY MEASUREMENT

- Accuracy class 0.5% per ANSI C12.20
- Dedicated energy computation processor
- Dedicated non-volatile memory
- Revenue grade energy measurement (0.5%) and reporting

INTEGRAL DIMMING (OPTIONAL)

- ANSI C136.41 compliant dimming interface
- 0-10 Volt Dimming
- Eliminates need for ROAM DCM module inside fixture
- Supports up to 5 drivers (2 mA per driver) sink or source operation

Warranty

Three-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/terms_and_conditions.aspx

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

Specifications subject to change without notice.

ORDERING INFORMATION

REN127 DV		Example: REN127 DV1 0 J50*					
Model & Voltage	Color	Certifications	Dimming Options	GPS Options	Job Packs		
REN127 120/240/277V (70-305) REN127 347V (0-volt) REN480 480V	DXV ANSI STD (0-volt) DV1 Black*	A CULUSP [blank] No Listing Required	0 0-10V Dimming [blank] No Dimming	G GPS Enabled [blank] No on-board GPS	[blank] 1 Unit J50 50 Count Pack M50 50 Master Pack		

FEATURES

ROAM DIAGNOSTICS OVERVIEW

- Fixture malfunction (lamp, ballast or starter failure)
- Cycling
- Dayburner
- No report (communication, power or equipment failure)
- Unspecified malfunction
- Power (power factor, kWh, voltage or power quality alerts)

SPECIFICATIONS

WIRELESS ENABLED COMMUNICATION

- 2.4GHz IEEE 802.15.4 compatible
- FCC part 15 approved
- Range -1,000 foot clear line of sight

WIRELESS CONTROL

- Remote on/off/dim control
- Grouped scheduling (energy savings)
- ATTRIBUTES
- 25-1,000 watt fixtures; Voltage 70-305VAC, 60Hz
- 1300J MOV, 10KA amp surge protection
- Zero cross relay switching for superior inrush protection
- Average Power consumption 1.6 watts
- Maximum Power consumption 2.2 watts
- Complies with ANSI C136.10, ANSI C136.41, and FCC part 15
- -40 to +70°C ambient
- ANSI Standard 2 to 5-second turn off delay

ON-BOARD GPS (OPTIONAL)

- Activation free installation. Plug and play
- Automatically determines and reports GPS location; Sub 2 meter accuracy typical
- Automatically determines and reports fixture voltage and wattage
- Automatically determines lamp type (HID vs LED)
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- 0-10 Volt Dimming
- Eliminates need for ROAM DCM module inside fixture
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Warranty

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

Specifications subject to change without notice.

Stocked Model Numbers

Model #	Description
REN127 DV1 0 J50	Multi-walk, Black Cover, Non-CULUS Listed, 0-10V Dimming
REN127 DV1 0 G M50	Multi-walk, Black Cover, Non-CULUS Listed, 0-10V Dimming, GPS Enabled
REN127 DVX A 0 J50	Multi-walk, Blue Cover, CULUS Listed, 0-10V Dimming
REN480 DV1 0 J50	480V, Black Cover, Non-CULUS Listed, 0-10V Dimming
REN480 DVX 0 J50	480V, Yellow Cover, CULUS Listed, 0-10V Dimming

Models not listed above are subject to standard lead time.

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ORANGE COUNTY CORRECTIONS SITE LIGHTING UPGRADES

Client
Orange County Capital Projects
400 East South St.
Orlando, Florida 32801

Engineers:



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Engineer of Record

12/07/2018

06/22/2016 60% SUBMITTAL SET

10/17/2016 95% SUBMITTAL SET

1/12/2017 PERMIT SET

5/23/2017 PERMIT SET

12/07/2018 BID SET

No. By Date Revision

0

1

2

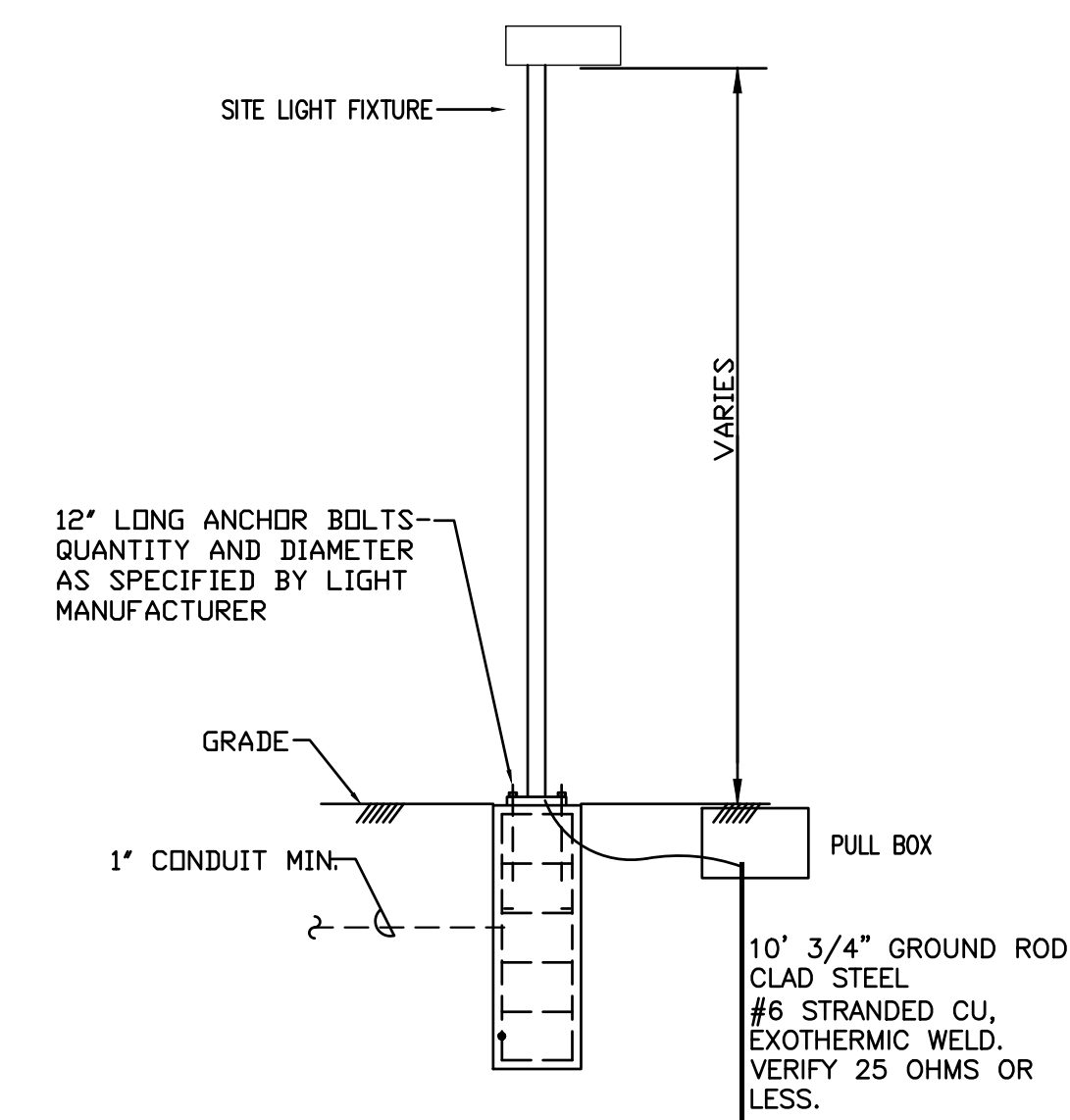
3

LIGHTING CONTROL SPECIFICATIONS

Sheet Title
Job No. 15.0C.017
Date 12/07/2018
Drawn ME
Checked MKS

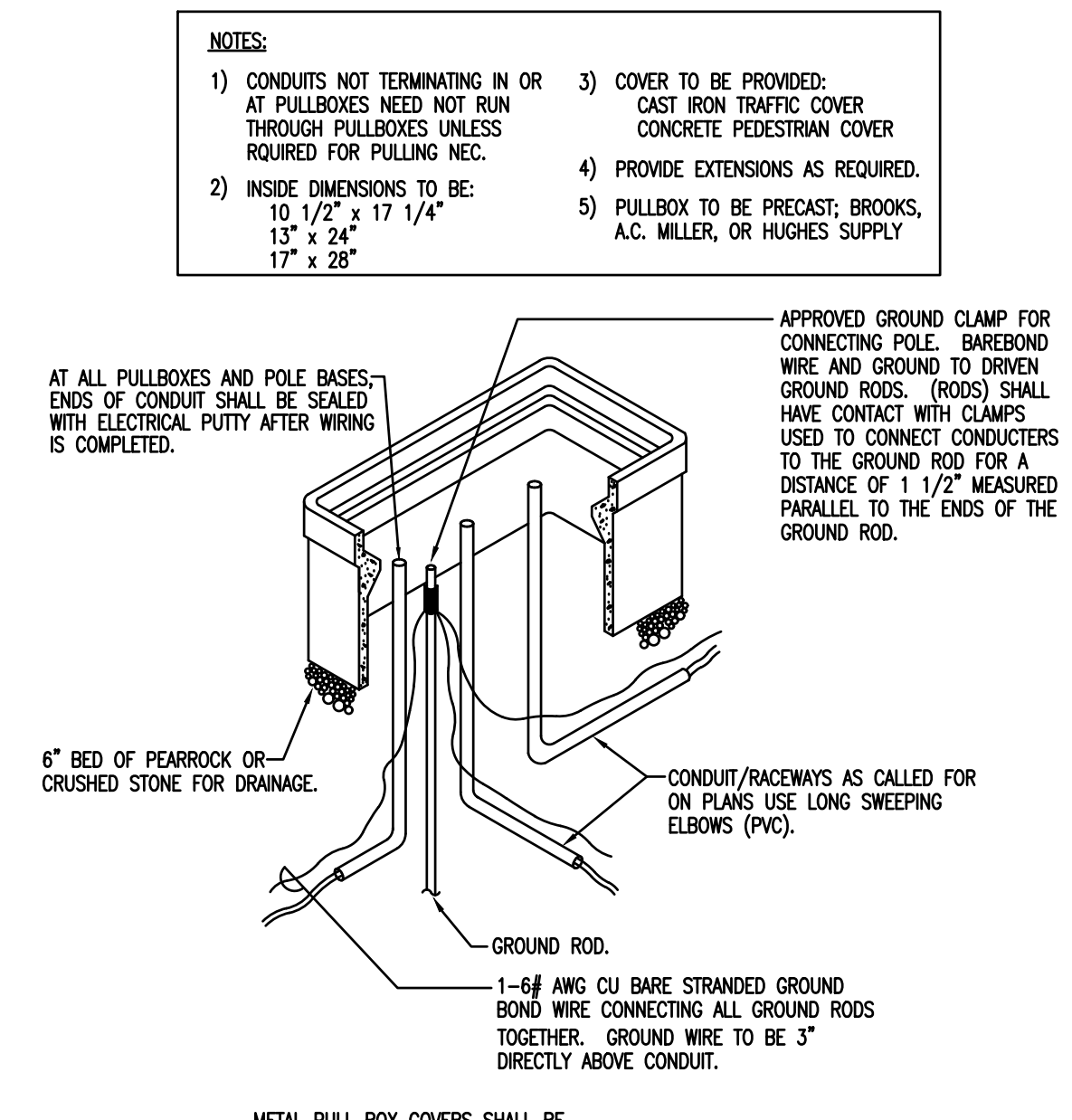
E502

Sheet No.



**SITE LIGHT POLE
INSTALLATION DETAIL**
NOT TO SCALE

NOTE: LIGHT & POLE MANUFACTURER SHALL PROVIDE A FINAL FOUNDATION DESIGN BY A FLORIDA REGISTERED STRUCTURAL ENGINEER TO MEET WIND LOAD REQUIREMENTS PER FLORIDA BUILDING CODE.



ELECTRICAL PULLBOX DETAIL
NOT TO SCALE

- NOTES:
- 1) CONDUITS NOT TERMINATING IN OR AT PULLBOXES NEED NOT RUN THROUGH PULLBOXES UNLESS REQUIRED FOR PULLING NEC.
 - 2) INSIDE DIMENSIONS TO BE 10 1/2" x 17 1/4" 15" x 24" 17" x 28"
 - 3) COVER TO BE PROVIDED: CAST IRON TRAFFIC COVER CONCRETE PEDESTAL COVER.
 - 4) PROVIDE EXTENSIONS AS REQUIRED.
 - 5) PULLBOX TO BE PRECAST, BROOKS, A.C. MILLER, OR HUGHES SUPPLY.



**ORANGE COUNTY
CORRECTIONS
SITE LIGHTING
UPGRADES**

Client
Orange County
Capital Projects
400 East South St.
Orlando, Florida 32801



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Engineer of Record

12/07/2018

06/22/2016	60% SUBMITTAL SET
10/17/2016	95% SUBMITTAL SET
1/12/2017	PERMIT SET
5/23/2017	PERMIT SET
12/07/2018	BID SET

No.	By	Date	Revision
0			
1			
2			
3			

**ELECTRICAL
DETAILS**

Sheet Title
Job No. 15.OC.017
Date 12/07/2018
Drawn ME
Checked MKS

E601
Sheet No.

UPDATED: 8/29/2016 12:01 pm
ISSUED FOR: APPROVAL

LOCATION: ELEC RM VOLTAGE: 120Y/208V TRIM: SURFACE
MAIN: 110A MCB SYSTEM: 3ø, 4W BUS RATING: 125A
CONN. LOAD: 26.4 KVA FEED: TOP GROUND BUS: YES COPPER

CKT	LOAD SERVED	COND	PHASE	NEUT	QND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	QND	LOAD SERVED	CKT
1	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING LOAD	2
3	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING LOAD	4
5	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	EXISTING LOAD	6
7	EXISTING LOAD	-	-	-	-	20/1	N	1900	-	-	1500	M	-	-	-	-	EXISTING LOAD	8
9	EXISTING LOAD	-	-	-	-	20/1	N	1900	-	-	1500	M	-	-	-	-	EXISTING LOAD	10
11	EXISTING LOAD	-	-	-	-	20/1	N	1900	-	-	1500	M	-	-	-	-	EXISTING LOAD	12
13	EXISTING LOAD	-	-	-	-	20/1	N	1900	-	-	1500	M	-	-	-	-	EXISTING LOAD	14
15	EXISTING LOAD	-	-	-	-	20/1	N	1900	-	-	1500	M	-	-	-	-	EXISTING LOAD	16
17	EXISTING LOAD	-	-	-	-	20/1	N	1900	-	-	1500	M	-	-	-	-	EXISTING LOAD	18
19	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	20
21	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	22
23	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	24
25	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	26
27	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	28
29	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	30
31	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	32
33	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	34
35	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	36
37	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	38
39	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	40
41	SPACE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SPACE	42

INTERRUPT RATING: 9100 9100 8200 FROM:

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	REMAINING CONTINUOUS LOADS	RECEPTS TO 10 KVA	RECEPTS REMAINING	SPACE HEATING	AIR CONDITIONING
LIGHTING	1000	1.25	1250	NON-SEASONAL MOTORS	4500	1.0	4500	REMAINING CONTINUOUS LOADS	20900	1.0	20900	
RECEPTS TO 10 KVA	0	1.0	0	LARGEST MOTOR	0	0.25	0	DEMAND LOADS	0	1.0	0	
RECEPTS REMAINING	0	0.5	0	WATER HEATING	0	1.0	0	TOTAL CONNECTED LOAD	26.4	KVA	73.3	AMPS
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	1.0	0	MIN. FEEDER/PANEL CAP.	26.7	KVA	74	AMPS
AIR CONDITIONING	0	1.0	0					OVERALL DEMAND FACTOR	1.01			

UPDATED: 8/26/2016 11:22 am
ISSUED FOR: APPROVAL

LOCATION: ELEC RM VOLTAGE: 277Y/480V TRIM: SURFACE
MAIN: 125A MCB SYSTEM: 3ø, 4W BUS RATING: 125A
CONN. LOAD: 83.7 KVA FEED: TOP GROUND BUS: YES COPPER

CKT	LOAD SERVED	COND	PHASE	NEUT	QND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	QND	LOAD SERVED	CKT
1	FRONT POLE LIGHTS	-	-	-	-	20/1	L	3000	-	-	20/1	L	-	-	-	-	EXISTING LOAD	2
3	ROOF TOP LIGHTING	3/4"	#12	#12	#12	20/1	L	726	-	-	20/1	L	-	-	-	-	EXISTING LOAD	4
5	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	6
7	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	8
9	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	10
11	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	12
13	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	14
15	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	16
17	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	18
19	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	20
21	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	22
23	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	24
25	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	26
27	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	28
29	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	30
31	EXISTING LOAD	-	-	-	-	20/3	M	4333	-	-	20/3	M	-	-	-	-	EXISTING LOAD	32
33	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	34
35	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	36
37	EXISTING LOAD	-	-	-	-	20/3	M	4333	-	-	20/3	M	-	-	-	-	EXISTING LOAD	38
39	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	40
41	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	42

INTERRUPT RATING: 29866 27592 26266 FROM:

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	REMAINING CONTINUOUS LOADS	RECEPTS TO 10 KVA	RECEPTS REMAINING	SPACE HEATING	AIR CONDITIONING
LIGHTING	12126	1.25	15158	NON-SEASONAL MOTORS	71598	1.0	71598	REMAINING CONTINUOUS LOADS	0	1.0	0	
RECEPTS TO 10 KVA	0	1.0	0	LARGEST MOTOR	0	0.25	0	DEMAND LOADS	0	1.0	0	
RECEPTS REMAINING	0	0.5	0	WATER HEATING	0	1.0	0	TOTAL CONNECTED LOAD	83.7	KVA	100.8	AMPS
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	1.0	0	MIN. FEEDER/PANEL CAP.	86.8	KVA	104.4	AMPS
AIR CONDITIONING	0	1.0	0					OVERALL DEMAND FACTOR	1.04			

UPDATED: 8/29/2016 12:57 pm
ISSUED FOR: APPROVAL

LOCATION: ELEC RM VOLTAGE: 120Y/208V TRIM: SURFACE
MAIN: 225A MLO SYSTEM: 3ø, 4W BUS RATING: 225A
CONN. LOAD: 49.8 KVA FEED: TOP GROUND BUS: YES COPPER

CKT	LOAD SERVED	COND	PHASE	NEUT	QND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	QND	LOAD SERVED	CKT
1	LIGHTS	-	-	-	-	20/1	L	1440	-	-	20/1	L	-	-	-	-	LIGHTS/REC 3RD FLOOR	2
3	LIGHTS	-	-	-	-	20/1	L	1440	-	-	20/1	L	-	-	-	-	DAYRM RECPT	4
5	LIGHTS	-	-	-	-	20/1	L	1440	-	-	20/1	L	-	-	-	-	DAYRM RECPT	6
7	LIGHTS/REC	-	-	-	-	20/1	L	1200	-	-	20/1	L	-	-	-	-	DAYRM RECPT	8
9	CELL LIGHTS	-	-	-	-	20/1	L	240	-	-	20/1	L	-	-	-	-	RECEPTS RM 333	10
11	CELL LIGHTS	-	-	-	-	20/1	L	600	-	-	20/1	L	-	-	-	-	EF-120 2ND FL ROOF	12
13	DAYRM LIGHTS	-	-	-	-	20/1	L	840	-	-	20/1	L	-	-	-	-	RECEPTS RM 435	14
15	DAYRM LIGHTS	-	-	-	-	20/1	L	1440	-	-	20/1	L	-	-	-	-	RECEPTS RM 435	16
17	CELL LIGHTS	-	-	-	-	20/1	L	840	-	-	20/1	L	-	-	-	-	RECEPTS RM 425	18
19	CELL LIGHTS	-	-	-	-	20/1	L	1440	-	-	20/1	L	-	-	-	-	EF-90	20
21	CELL LIGHTS	-	-	-	-	20/1	L	600	-	-	20/1	L	-	-	-	-	EF-100	22
23	CELL LIGHTS	-	-	-	-	20/1	L	600	-	-	20/1	L	-	-	-	-	DAYRM RECPT	24
25	DAYRM LIGHTS	-	-	-	-	20/1	L	840	-	-	20/1	L	-	-	-	-	DAYRM RECPT	26
27	DAYRM LIGHTS	-	-	-	-	20/1	L	240	-	-	20/1	L	-	-	-	-	DAYRM RECPT	28
29	DORM D	-	-	-	-	20/1	L	840	-	-	20/1	L	-	-	-	-	EF-20 4TH FL ROOF	30
31	DORM D	-	-	-	-	20/1	L	960	-	-	20/1	L	-	-	-	-	EF-40 4TH FL ROOF	32
33	2ND FL ROOF REC	-	-	-	-	20/1	L	1440	-	-	20/1	L	-	-	-	-	EF-130 4TH FL ROOF	34
35	4TH FL ROOF REC	-	-	-	-	20/1	L	1440	-	-	20/1	L	-	-	-	-	RECEPTS RM 419	36
37	RM 333 LIGHTS	-	-	-	-	20/1	L	1440	-	-	20/1	L	-	-	-	-	RECEPTS RM 419	38
39	RM 333-336 LIGHTS REC.S	-	-	-	-	20/1	L	1440	-	-	20/1	L	-	-	-	-	WELDING RCPT	40
41	RM 334 LIGHTS/PV	-	-	-	-	20/1	L	1440	-	-	20/1	L	-	-	-	-		42

INTERRUPT RATING: 14860 17580 17340 FROM:

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER	REMAINING CONTINUOUS LOADS	RECEPTS TO 10 KVA	RECEPTS REMAINING	SPACE HEATING	AIR CONDITIONING
LIGHTING	24440	1.25	30550	NON-SEASONAL MOTORS	0	1.0	0	REMAINING CONTINUOUS LOADS	8760	1.0	8760	
RECEPTS TO 10 KVA	10000	1.0	10000	LARGEST MOTOR	0	0.25	0	DEMAND LOADS	0	1.0	0	
RECEPTS REMAINING	6580	0.5	3290	WATER HEATING	0	1.0	0	TOTAL CONNECTED LOAD	49.8	KVA	138.3	AMPS
SPACE HEATING	0	0.0	0	KITCHEN EQUIP.	0	1.0	0	MIN. FEEDER/PANEL CAP.	52.6	KVA	146.1	AMPS
AIR CONDITIONING	0	1.0	0					OVERALL DEMAND FACTOR	1.06			

UPDATED: 8/29/2016 1:44 pm
ISSUED FOR: APPROVAL

LOCATION: ELEC RM VOLTAGE: 120Y/208V TRIM: SURFACE
MAIN: 225A MLO SYSTEM: 3ø, 4W BUS RATING: 225A
CONN. LOAD: 48.6 KVA FEED: TOP GROUND BUS: YES COPPER

CKT	LOAD SERVED	COND	PHASE	NEUT	QND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	QND	LOAD SERVED	CKT
4.3	UPS CONTROL ROOM	-	-	-	-	40/2	N	245	-	-	20/1	N	-	-	-	-	UPS CONTROL ROOM	4.4
4.5	"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	"	4.6
4.7	PHONE RECPTS	-	-	-	-	20/1	N	-	-	-	20/1	N	-	-	-	-	PHONE RECPTS	4.8
4.9	SPACE	-	-	-	-	20/1	N	-	-	-	20/1	N	-	-	-	-	SPACE	5.0
5.1	SPACE	-	-	-	-	20/1	N	-	-	-	20/1	N	-	-	-	-	SPACE	5.2
5.3	TV RECEPT.	-	-	-	-	20/1	R	-	-	-	20/1	R	-	-	-	-	TV REC. & 6TH FL E ISO REC	5.4
5.5	SPACE	-	-	-	-	20/1	R	-	-	-	20/1	R	-	-	-	-	TV REC. 6TH FL ALFA	5.6
5.7	TV RECEPT.	-	-	-	-	20/1	R	-	-	-	20/1	R	-	-	-	-	HALL 661 RECPT.	6.0
5.9	EXISTING LOAD	-	-	-	-	20/1	N	1400	-	-	20/1	N	-	-	-	-	DAYROOM 645 GPI RECPT	6.2
6.1	EXISTING LOAD	-	-	-	-	20/1	N	1400	-	-	20/1	N	-	-	-	-	DAYROOM 646 GPI RECPT	6.4
6.3	EXISTING LOAD	-	-	-	-	20/1	N	1400	-	-	20/1	N	-	-	-	-	EXISTING LOAD	6.6
6.5	EXISTING LOAD	-	-	-	-	20/1	N	1400	-	-	20/1	N	-	-	-	-	EXISTING LOAD	6.8
6.7	EXISTING LOAD	-	-	-	-	20/1	N											