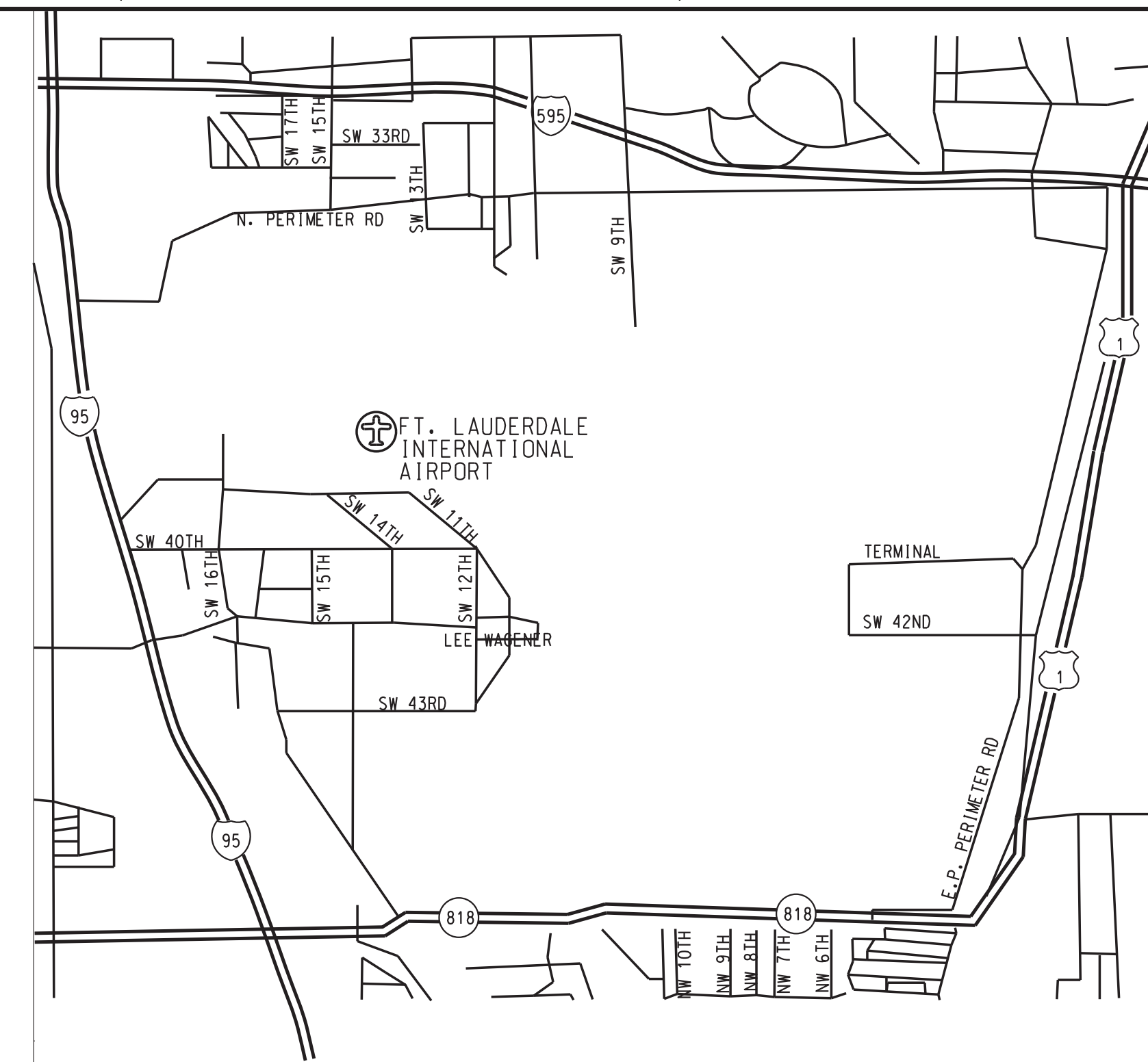




# LIGHTING REPLACEMENT PROJECT FLL ATCT - FORT LAUDERDALE, FL



VICINITY MAP  
NOT TO SCALE

| REV   | APPROVED DATE      | DESCRIPTION                            | JCN                     | REDLINE DATE | APVD |
|---|--------------------|--|-------------------------|--------------|------|
| DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION<br>ATO - TECHNICAL OPERATIONS      EASTERN SERVICE AREA<br><br><b>ATCT</b><br><b>LIGHTING REPLACEMENT PROJECT</b><br><b>COVER SHEET</b> |                    |  |                         |              |      |
| FT LAUDERDALE   |                    | FORT LAUDERDALE/HOLLYWOOD INTL AIRPORT |                         |              | FL   |
| REVIEWED BY   | SUBMITTED BY       | APPROVED BY                            |                         |              |      |
|   | <i>[Signature]</i> | <i>[Signature]</i>                     |                         |              |      |
| PROJECT ENGINEER  | DESIGNED           | ISSUED BY                              | MGR: ENGINEERING CENTER |              |      |
| DM  | DM                 | ENGINEERING SERVICES                   | DATE                    | 05/29/2020   | JCN  |
| DRAWN   | DM                 | TERMINAL                               | DRAWING NO              | 1507980      | REV  |
| CHECKED   | CN                 |  | FLL-D-1507980-G001      |              |      |

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 David Manno

ISSUED FOR: CONSTRUCTION  
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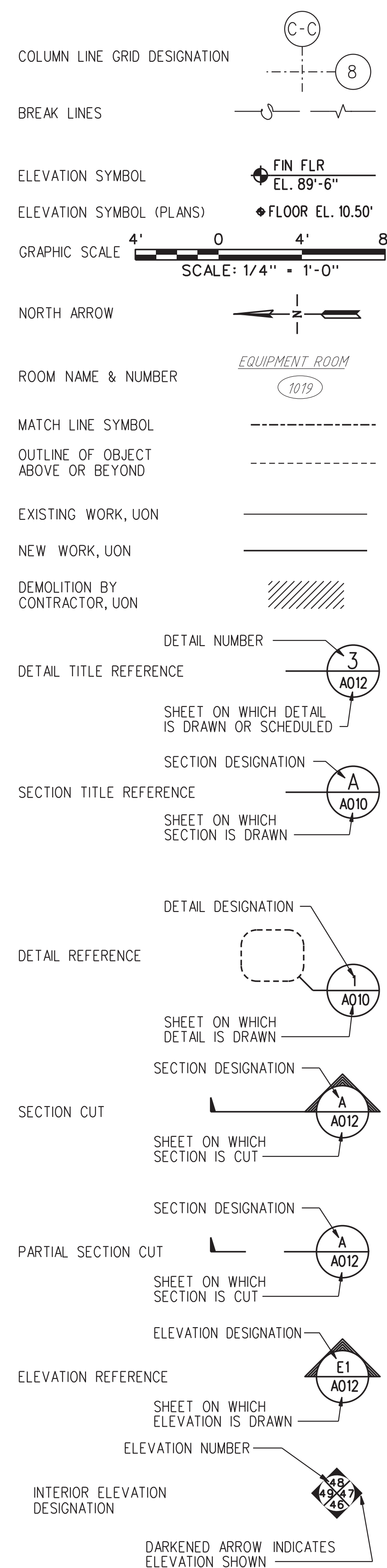
DRAWING LIST

| DRAWING NO.        | REV. | DATE      | DESCRIPTION                                      |
|--------------------|------|-----------|--|
| FLL-D-1507980-G001 | -    | 5/29/2020 | COVER SHEET AND VICINITY MAP                     |
| FLL-D-1507980-G002 | -    | 5/29/2020 | DRAWING INDEX, LEGENDS & ABBREVIATIONS           |
| FLL-D-1507980-A101 | -    | 5/29/2020 | BASE BUILDING & LINK - REFLECTED CEILING PLAN    |
| FLL-D-1507980-D101 | -    | 5/29/2020 | BASE BUILDING & LINK - LIGHTING DEMOLITION PLAN  |
| FLL-D-1507980-E100 | -    | 5/29/2020 | MAIN PARKING LOT - SITE LIGHTING PLAN            |
| FLL-D-1507980-E101 | -    | 5/29/2020 | BASE BUILDING & LINK - LIGHTING PLAN             |
| FLL-D-1507980-E501 | -    | 5/29/2020 | LIGHTING INSTALLATION DETAILS                    |
| FLL-D-1507980-E601 | -    | 5/29/2020 | LIGHTING & PANELBOARD SCHEDULES                  |
| FLL-D-1507980-E700 | -    | 5/29/2020 | MAIN PARKING LOT - LIGHTING PHOTOMETRIC PLAN     |
| FLL-D-1507980-E701 | -    | 5/29/2020 | BASE BUILDING & LINK - LIGHTING PHOTOMETRIC PLAN |

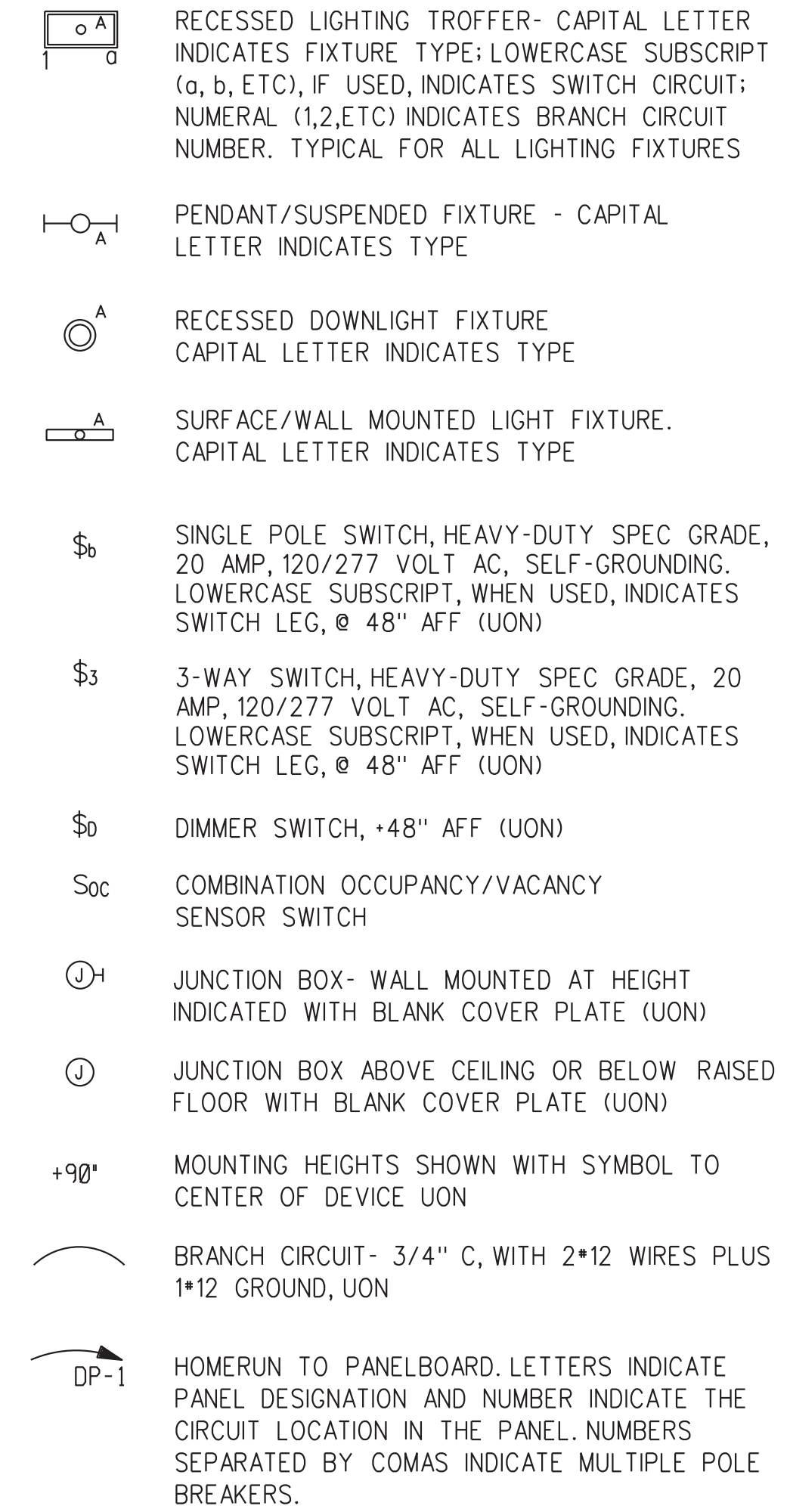
STANDARD ABBREVIATIONS

|          |   |          |   |          |  |
|----------|---|----------|---|----------|--|
| <b>A</b> | AMP<br>ALTERNATING CURRENT<br>AD<br>ACCESS DOOR<br>AFF<br>ABOVE FINISHED FLOOR<br>AFM<br>AIR FLOW METER/SENSOR<br>AHU<br>AIR HANDLING UNIT<br>AO<br>ANALOG OUTPUT<br>APROX<br>APPROXIMATELY<br>ARCH<br>ARCHITECT/ARCHITECTURAL<br>ASSY<br>ASSEMBLY<br>AUX<br>AUXILIARY<br>AWG<br>AMERICAN WIRE GAUGE  | <b>F</b> | FCU<br>FAN COIL UNIT<br>FCV<br>FLOW CONTROL VALVE<br>FD<br>FIRE DAMPER OR FLOOR DRAIN<br>FD/SD<br>FIRE/SMOKE DAMPER<br>FFE<br>FINISHED FLOOR ELEVATION<br>FLG<br>FLANGE<br>FM<br>FLOW METER/SENSOR<br>FPM<br>FEET PER MINUTE<br>FT<br>FEET<br>FW<br>FIRE WATER                            | <b>P</b> | PH<br>PHASE<br>PHC<br>PREHEAT COIL<br>PI<br>PRESSURE INDICATOR<br>POC<br>POINT OF CONNECTION<br>PRV<br>PRESSURE REDUCING VALVE<br>PS<br>PRESSURE SENSOR<br>PSF<br>POUNDS PER SQUARE FOOT<br>PSI<br>POUNDS PER SQUARE INCH  |
| <b>B</b> | BF<br>BLIND FLANGE<br>BFP<br>BACK FLOW PREVENTER<br>BFV<br>BUTTERFLY VALVE<br>BKR<br>BREAKER<br>BLDG<br>BUILDING<br>BDD<br>BOTTOM OF DUCT<br>BOP<br>BOTTOM OF PIPE<br>BOTT<br>BOTTOM<br>BSMT<br>BASEMENT<br>BTU<br>BRITISH THERMAL UNIT<br>BTUH<br>BTU PER HOUR<br>BTW<br>BETWEEN<br>BV<br>BALL VALVE<br>BWV<br>BACK WATER VALVE  | <b>G</b> | G<br>NATURAL GAS<br>GA<br>GAUGE<br>GALV<br>GALVANIZED<br>GFI<br>GROUND FAULT INTERRUPTER<br>GND<br>GROUND<br>GPH<br>GALLONS PER HOUR<br>GPM<br>GALLONS PER MINUTE<br>GV<br>GATE VALVE   | <b>R</b> | R<br>RADIUS<br>RA<br>RETURN AIR<br>RCP<br>REFLECTED CEILING PLAN<br>REC<br>RECEPTACLE<br>REF<br>REFERENCE<br>REINF<br>REINFORCING<br>REQ'D<br>REQUIRED<br>REV<br>REVISION OR REVERSE<br>RGS<br>RIGID GALVANIZED STEEL<br>RHC<br>REHEAT COIL<br>RPM<br>REVOLUTIONS PER MINUTE<br>RV<br>REFRIGERANT VENT |
| <b>C</b> | CC<br>COOLING COIL<br>CD<br>CONDENSATE DRAIN<br>CFM<br>CUBIC FEET PER MINUTE<br>CI<br>CAST IRON<br>CIP<br>CAST IN PLACE<br>CIRC<br>CIRCULATING<br>CKT<br>CIRCUIT<br>CL<br>CENTER LINE<br>CMU<br>CONCRETE MASONRY UNIT<br>CO<br>CLEAN OUT<br>COL<br>COLUMN<br>CONC<br>CONCRETE<br>COND<br>CONDENSATE<br>CONN<br>CONNECTION<br>CONT<br>CONTINUOUS<br>COR<br>CONTRACTING OFFICERS REPRESENTATIVE<br>CTR<br>CENTER OR COOLING TOWER WATER RETURN<br>CTS<br>COOLING TOWER WATER SUPPLY<br>CU<br>CONDENSING UNIT<br>CW<br>DOMESTIC COLD WATER<br>CWR<br>CHILLED WATER RETURN<br>CWS<br>CHILLED WATER SUPPLY | <b>H</b> | HB<br>HOSE BIBB<br>HC<br>HEATING COIL<br>HP<br>HORSE POWER<br>HR<br>HOUR<br>HS<br>HUMIDITY SENSOR<br>HTE<br>HEAT TRACE ELEMENT<br>HU<br>HUMIDIFIER<br>HW<br>DOMESTIC HOT WATER<br>HWC<br>HW CIRCULATION LOOP<br>HWR<br>HEATING WATER RETURN<br>HWS<br>HEATING WATER SUPPLY<br>HZ<br>HERTZ | <b>S</b> | SA<br>SUPPLY AIR<br>SAP<br>SOUND ABSORBING PANEL<br>SCH<br>SCHEDULE<br>SD<br>SMOKE DAMPER<br>SF<br>SUPPLY FAN<br>SIM<br>SIMILAR<br>SPEC<br>SPECIFICATIONS<br>SS<br>SANITARY SEWER<br>STD<br>STANDARD<br>STR<br>STRUCTURE   |
| <b>D</b> | DB<br>DRY BULB TEMPERATURE<br>DBL<br>DOUBLE<br>DC<br>DIRECT CURRENT<br>DDC<br>DIRECT DIGITAL CONTROL<br>DI<br>DUCTILE IRON<br>DIA<br>DIAMETER<br>DISC<br>DISCONNECT<br>DN<br>DOWN<br>DO<br>DIGITAL OUTPUT<br>DP<br>DIFFERENTIAL PRESSURE<br>DPS<br>DP SENSOR  | <b>I</b> | ID<br>INSIDE DIAMETER<br>IN<br>INCH<br>INV<br>INVERT<br>IW<br>INDUSTRIAL WATER  | <b>T</b> | T<br>THERMOSTAT<br>TEMP<br>TEMPERATURE<br>TI<br>TEMPERATURE INDICATOR<br>TOD<br>TOP OF DUCT<br>TOP<br>TOP OF PIPE<br>TRANS<br>TRANSVERSE<br>TS<br>TEMPERATURE SENSOR<br>TYP<br>TYPICAL   |
| <b>E</b> | EAT<br>ENTERING AIR TEMPERATURE<br>EF<br>EXHAUST FAN<br>ELEV<br>ELEVATION<br>ELEC<br>ELECTRIC/ELECTRICAL<br>EMT<br>ELECTRICAL METAL TUBING<br>EWT<br>ENTERING WATER TEMPERATURE   | <b>J</b> | JB<br>JUNCTION BOX  | <b>U</b> | UH<br>UNIT HEATER<br>UNO<br>UNLESS NOTED OTHERWISE   |
|          |   | <b>K</b> | KVA<br>KILOVOLT AMPERE<br>KW<br>KILOWATTS   | <b>V</b> | V<br>VENT OR VOLTS<br>VAV<br>VARIABLE AIR VOLUME TERMINAL<br>VCT<br>VINYL COMPOSITE TILE<br>VD<br>VOLUME DAMPER<br>VERT<br>VERTICAL<br>VFD<br>VARIABLE FREQUENCY DRIVE<br>VIF<br>VERIFY IN FIELD<br>VS<br>VIBRATION SENSOR   |
|          |   | <b>L</b> | LAT<br>LEAVING AIR TEMPERATURE<br>LBS<br>POUNDS<br>LWT<br>LEAVING WATER TEMPERATURE<br>LFMC<br>LIQUIDTIGHT FLEX METAL COND.   | <b>W</b> | W<br>WATTS<br>W/<br>WITH<br>WB<br>WET BULB TEMPERATURE<br>WC<br>WATER COLUMN<br>W/O<br>WITHOUT<br>WWF<br>WELDED WIRE FABRIC  |
|          |   | <b>M</b> | MAX<br>MAXIMUM<br>MBH<br>1000 BTU PER HOUR<br>MCB<br>MAIN CIRCUIT BREAKER<br>MCC<br>MOTOR CONTROL CENTER<br>MFG<br>MANUFACTURER<br>MIN<br>MINIMUM   | <b>X</b> | XFER<br>TRANSFER<br>XFMR<br>TRANSFORMER  |
|          |   | <b>N</b> | NO<br>NORMALLY CLOSED<br>NIC<br>NOT IN CONTRACT<br>NO<br>NORMALLY OPEN<br>NOM<br>NOMINAL<br>NPT<br>NATIONAL PIPE THREAD<br>NTS<br>NOT TO SCALE  | <b>Y</b> | YH<br>YARD HYDRANT   |
|          |   | <b>O</b> | OA<br>OUTSIDE AIR<br>OC<br>ON CENTER<br>OD<br>OUTSIDE DIAMETER  |          |  |

GENERAL LEGEND



ELECTRICAL LEGEND



GENERAL NOTES

- THESE CONTRACT DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS TO BE ENCOUNTERED DURING THE CONSTRUCTION PROCESS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND CONFIRM ALL INFORMATION PROVIDED HERE WITH SITE CONDITIONS, EQUIPMENT AND MATERIAL SUPPLIERS AND WITH ALL PROJECT REQUIREMENTS TO PRODUCE AN ACCEPTABLE PRODUCT FOR THE GOVERNMENT.
- EXTREME CAUTION MUST BE PRACTICED WHEN WORKING ON ANY OF THE ELECTRICAL POWER SYSTEMS (BUILDING, ESSENTIAL AND CRITICAL SERVICE). THIS BUILDING IS AN OPERATIONAL AIR TRAFFIC CONTROL FACILITY AND UNAUTHORIZED ELECTRICAL OUTAGES MAY CAUSE ACCIDENTS AND/OR LOSS OF LIFE.
- ONLY FAA PERSONNEL MAY OPERATE CIRCUIT BREAKERS. THE CONTRACTOR SHALL NOT OPEN (DE-ENERGIZE) OR CLOSE (ENERGIZE) ANY CIRCUIT BREAKER AT ANY TIME. WORK REQUIRING PERMANENT, TEMPORARY OR PARTIAL ELECTRICAL OUTAGES SHALL BE COORDINATED IN ADVANCE WITH THE COR.
- FIRESTOP CONDUIT PENETRATIONS THROUGH FLOORS AND FIRE RATED WALLS. MATERIALS & METHODS EMPLOYED IN FIRESTOPPING SHALL BE IN ACCORDANCE WITH UL STANDARDS.
- ALL WIRING SHALL CONSIST OF INSULATED COPPER CONDUCTORS, NOT SMALLER THAN 12AWG, INSTALLED IN METALLIC RACEWAYS, UNLESS OTHERWISE SPECIFIED. USE SOLID COPPER CONDUCTOR FOR 10AWG AND SMALLER; STRANDED COPPER CONDUCTOR FOR LARGER THAN 10AWG. COLOR CODING AS INDICATED IN PROJECT SPECIFICATIONS.
- SHARED/Common NEUTRALS SHALL NOT BE PERMITTED, I.E., EACH OVERCURRENT DEVICE SHALL HAVE ITS OWN SEPARATE NEUTRAL CONDUCTOR. NEUTRAL CONDUCTOR SIZES SHALL NOT BE LESS THAN THE RESPECTIVE FEEDER OR PHASE CONDUCTOR SIZES.
- SHARED/Common GROUNDING CONDUCTORS SHALL NOT BE PERMITTED, I.E., EACH OVERCURRENT DEVICE SHALL HAVE ITS OWN SEPARATE GROUND CONDUCTOR.
- ALL EQUIPMENT SHALL BE NEW AND APPROVED ACCORDING TO ANSI AND NEMA STANDARDS.
- ALL EQUIPMENT SHALL BE GROUNDED ACCORDING TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND FAA-STD-019F.
- ROUTE OF CONDUITS SHOWN IN LAYOUT IS SCHEMATIC AND INTENDED ONLY TO INDICATE CONNECTIONS BETWEEN DEVICES AND/OR EQUIPMENTS. EXACT ROUTING SHALL BE DETERMINED AT JOB SITE TO CONFORM WITH STRUCTURAL CONDITIONS.
- ALL BOXES SHALL NOT BE LESS THAN 4 INCHES SQUARE, 2 1/8 INCHES DEEP, AND SHALL BE INDEPENDENTLY SUPPORTED.
- INDICATED HEIGHTS ARE FROM CENTER OF BOX, OR EQUIPMENT, TO THE FINISHED FLOOR, UNLESS OTHERWISE INDICATED.
- ALL CONSTRUCTION SHALL BE DONE IN A NEAT AND WORKMAN LIKE MANNER IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE SHALL BE FOLLOWED, EXCEPT WHEN FAA STANDARDS ARE MORE STRINGENT, IN WHICH CASE, FAA STANDARDS SHALL GOVERN.

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DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
ATO - TECHNICAL OPERATIONS EASTERN SERVICE AREA

ATCT  
LIGHTING REPLACEMENT PROJECT  
DRAWING INDEX, LEGENDS & ABBREVIATIONS

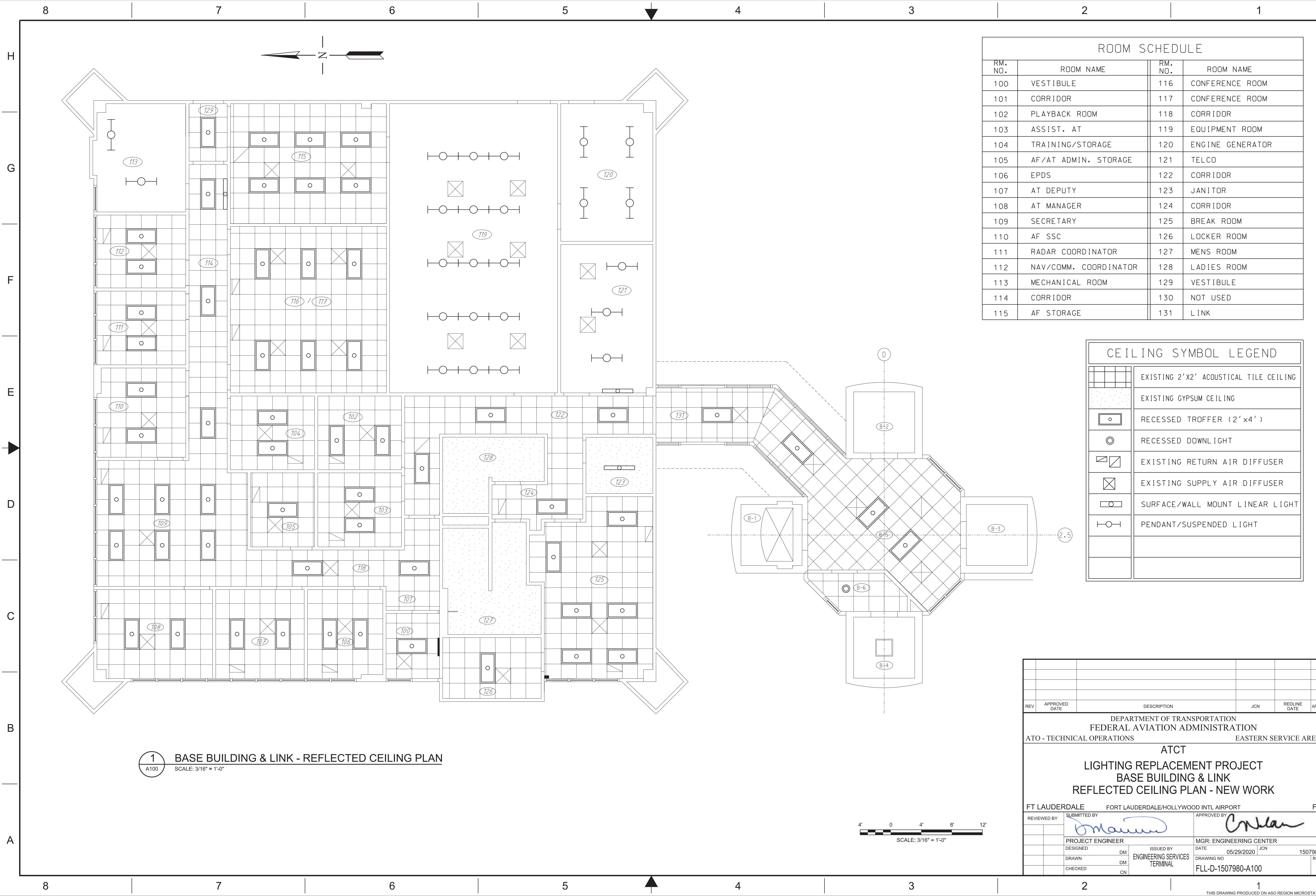
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|                  | <i>[Signature]</i>            | <i>[Signature]</i>            |
| PROJECT ENGINEER | ISSUED BY                     | MGR: ENGINEERING CENTER       |
| DESIGNED DM      | DATE 05/29/2020               | JCN 1507980                   |
| DRAWN DM         | ENGINEERING SERVICES TERMINAL | DRAWING NO FLL-D-1507980-G002 |
| CHECKED CN       |                               | REV                           |

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ISSUED FOR: CONSTRUCTION

EDM: FLL-D-1507980-G002.dwg



| ROOM SCHEDULE |                       |         |                  |
|---------------|-----------------------|---------|------------------|
| RM. NO.       | ROOM NAME             | RM. NO. | ROOM NAME        |
| 100           | VESTIBULE             | 116     | CONFERENCE ROOM  |
| 101           | CORRIDOR              | 117     | CONFERENCE ROOM  |
| 102           | PLAYBACK ROOM         | 118     | CORRIDOR         |
| 103           | ASSIST. AT            | 119     | EQUIPMENT ROOM   |
| 104           | TRAINING/STORAGE      | 120     | ENGINE GENERATOR |
| 105           | AF/AT ADMIN. STORAGE  | 121     | TELCO            |
| 106           | EPDS                  | 122     | CORRIDOR         |
| 107           | AT DEPUTY             | 123     | JANITOR          |
| 108           | AT MANAGER            | 124     | CORRIDOR         |
| 109           | SECRETARY             | 125     | BREAK ROOM       |
| 110           | AF SSC                | 126     | LOCKER ROOM      |
| 111           | RADAR COORDINATOR     | 127     | MENS ROOM        |
| 112           | NAV/COMM. COORDINATOR | 128     | LADIES ROOM      |
| 113           | MECHANICAL ROOM       | 129     | VESTIBULE        |
| 114           | CORRIDOR              | 130     | NOT USED         |
| 115           | AF STORAGE            | 131     | LINK             |

| CEILING SYMBOL LEGEND |  |
|-----------------------|--|
|                       | EXISTING 2'X2' ACOUSTICAL TILE CEILING |
|                       | EXISTING GYPSUM CEILING                |
|                       | RECESSED TROFFER (2'x4')               |
|                       | RECESSED DOWNLIGHT                     |
|                       | EXISTING RETURN AIR DIFFUSER           |
|                       | EXISTING SUPPLY AIR DIFFUSER           |
|                       | SURFACE/WALL MOUNT LINEAR LIGHT        |
|                       | PENDANT/SUSPENDED LIGHT                |

**1** BASE BUILDING & LINK - REFLECTED CEILING PLAN  
 A100 SCALE: 3/16" = 1'-0"

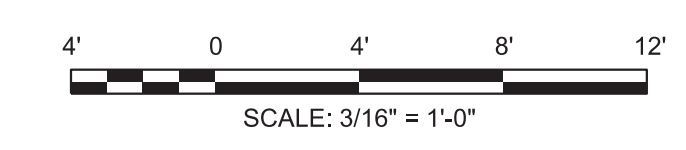
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DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION  
 ATO - TECHNICAL OPERATIONS      EASTERN SERVICE AREA

**ATCT**  
**LIGHTING REPLACEMENT PROJECT**  
**BASE BUILDING & LINK**  
**REFLECTED CEILING PLAN - NEW WORK**

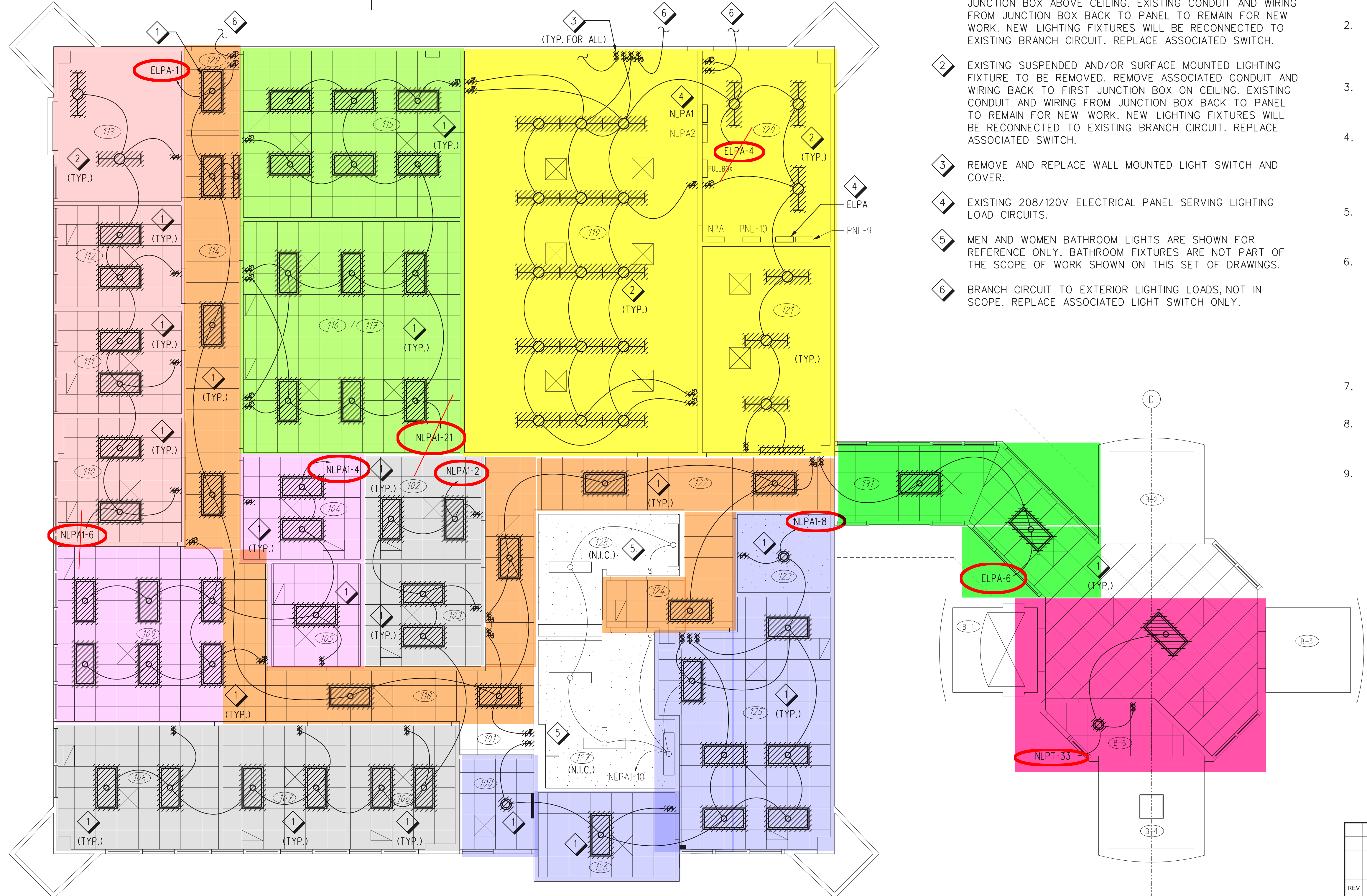
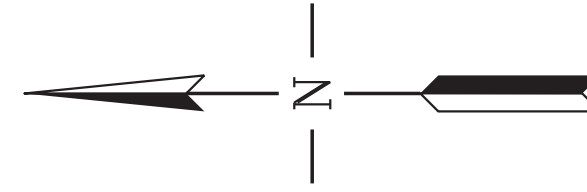
FT LAUDERDALE      FORT LAUDERDALE/HOLLYWOOD INTL AIRPORT      FL

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| PROJECT ENGINEER                        | DESIGNED DM  | MGR: ENGINEERING CENTER                 |
| DRAWN DM                                | CHECKED CN   | DATE 05/29/2020      JCN 1507980        |
| ISSUED BY ENGINEERING SERVICES TERMINAL |              | DRAWING NO. FLL-D-1507980-A100      REV |



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 David Menners

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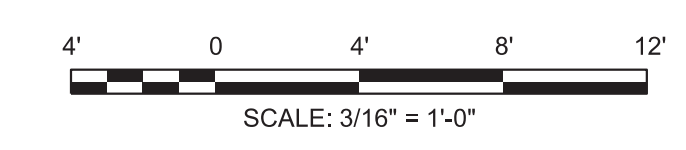
**SHEET NOTES**

- 1 EXISTING RECESSED LIGHTING FIXTURE TO BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO FIRST JUNCTION BOX ABOVE CEILING. EXISTING CONDUIT AND WIRING FROM JUNCTION BOX BACK TO PANEL TO REMAIN FOR NEW WORK. NEW LIGHTING FIXTURES WILL BE RECONNECTED TO EXISTING BRANCH CIRCUIT. REPLACE ASSOCIATED SWITCH.
- 2 EXISTING SUSPENDED AND/OR SURFACE MOUNTED LIGHTING FIXTURE TO BE REMOVED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO FIRST JUNCTION BOX ON CEILING. EXISTING CONDUIT AND WIRING FROM JUNCTION BOX BACK TO PANEL TO REMAIN FOR NEW WORK. NEW LIGHTING FIXTURES WILL BE RECONNECTED TO EXISTING BRANCH CIRCUIT. REPLACE ASSOCIATED SWITCH.
- 3 REMOVE AND REPLACE WALL MOUNTED LIGHT SWITCH AND COVER.
- 4 EXISTING 208/120V ELECTRICAL PANEL SERVING LIGHTING LOAD CIRCUITS.
- 5 MEN AND WOMEN BATHROOM LIGHTS ARE SHOWN FOR REFERENCE ONLY. BATHROOM FIXTURES ARE NOT PART OF THE SCOPE OF WORK SHOWN ON THIS SET OF DRAWINGS.
- 6 BRANCH CIRCUIT TO EXTERIOR LIGHTING LOADS, NOT IN SCOPE. REPLACE ASSOCIATED LIGHT SWITCH ONLY.

**GENERAL NOTES**

- 1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION OF ALL ELECTRICAL EQUIPMENT, BRANCH CIRCUIT CONNECTIONS AND PANELBOARD SCHEDULES, PRIOR TO DEMOLITION WORK.
- 2. ROUTE OF CONDUITS AND BRANCH CIRCUIT NUMBERS SHOWN ARE ILLUSTRATIVE AND INTENDED ONLY TO INDICATE CONNECTIONS BETWEEN ELECTRICAL DEVICES AND EQUIPMENT. EXACT ROUTING AND CIRCUIT CONNECTIONS SHALL BE CONFIRMED AT JOB SITE.
- 3. THE CONTRACTOR SHALL CLEAN THE AREA OF WORK, TO BE CLEAR OF ANY CONSTRUCTION MATERIAL AND OBSTRUCTION, AT THE END OF THE WORK SHIFT EVERY DAY.
- 4. REPLACEMENT OF FIXTURES SHALL BE ACCOMPLISHED IN PHASES, BY BRANCH CIRCUIT GROUPS, TO MINIMIZE DOWNTIME OF EXISTING LIGHTING SYSTEM. ALL FIXTURES ON A SINGLE BRANCH CIRCUIT SHALL BE REPLACED AND TESTED PRIOR TO REMOVING THE NEXT GROUP OF FIXTURES.
- 5. EXISTING LIGHTING FIXTURES SHALL BE USED AS TEMPORARY LIGHTING, TO THE EXTENT POSSIBLE, DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY LIGHTING, AS REQUIRED.
- 6. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PROTECT ALL BUILDING ELEMENTS "TO REMAIN" FROM DAMAGE DURING CONSTRUCTION, TO INCLUDE BUT NOT LIMITED TO CEILING SYSTEM, FLOORING, FURNITURE, AND EQUIPMENT. THE CONTRACTOR SHALL RETURN TO ITS ORIGINAL STATE OR REPLACE WITH NEW PRODUCTS, ANY BUILDING ELEMENT OR COMPONENTS THAT ARE DAMAGED OR AFFECTED BY THE EXECUTION OF THE CONSTRUCTION ACTIVITIES, AND THAT IS NOT INCLUDED IN THE SCOPE OF WORK OF THIS PROJECT AT NO ADDITIONAL COST TO THE GOVERNMENT.
- 7. CONTRACTOR SHALL MAINTAIN CONTINUITY FOR ALL CIRCUITS SERVING AREA NOT AFFECTED BY THE DEMOLITION WORK.
- 8. CONTRACTOR SHALL PROVIDE NEW CEILING TILES, TO MATCH EXISTING, FOR ALL OPEN AREAS AS A RESULT OF THE DEMOLITION WORK AND THE NEW LIGHTING CONFIGURATION.
- 9. CONTRACTOR SHALL PROTECT EXISTING FIRE ALARM DEVICES FROM DAMAGE DURING CONSTRUCTION, AND PROVIDE DUST COVERS FOR SMOKE DETECTORS. COORDINATE WITH COR TO TEMPORARILY DISABLE LOCAL SMOKE DETECTORS INSIDE THE ROOMS DURING WORK SHIFTS, TO AVOID FALSE TRIGGERING OF SENSORS AND DEVICES.

**1 BASE BUILDING & LINK - LIGHTING DEMOLITION PLAN**  
D101 SCALE: 3/16" = 1'-0"



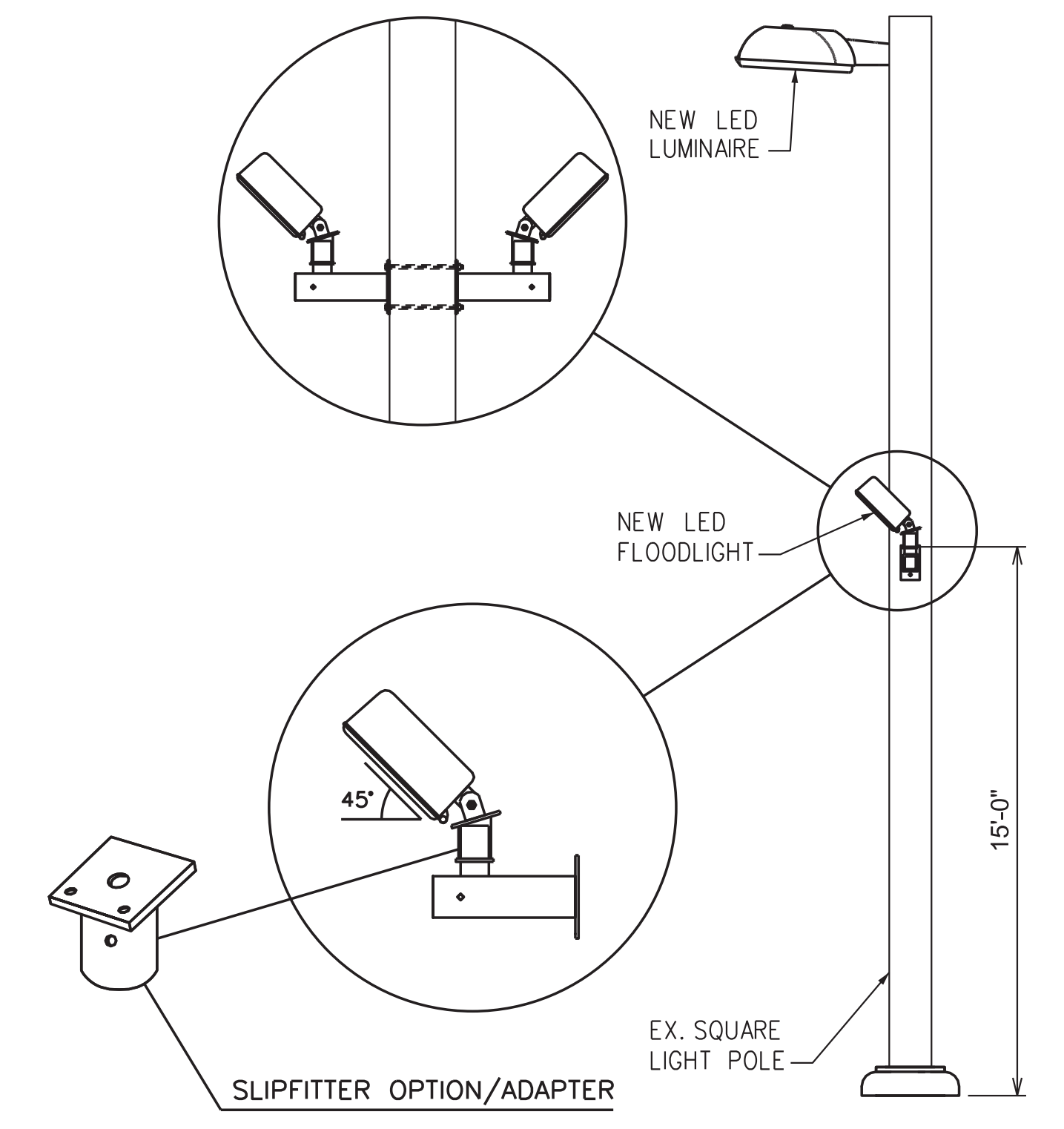
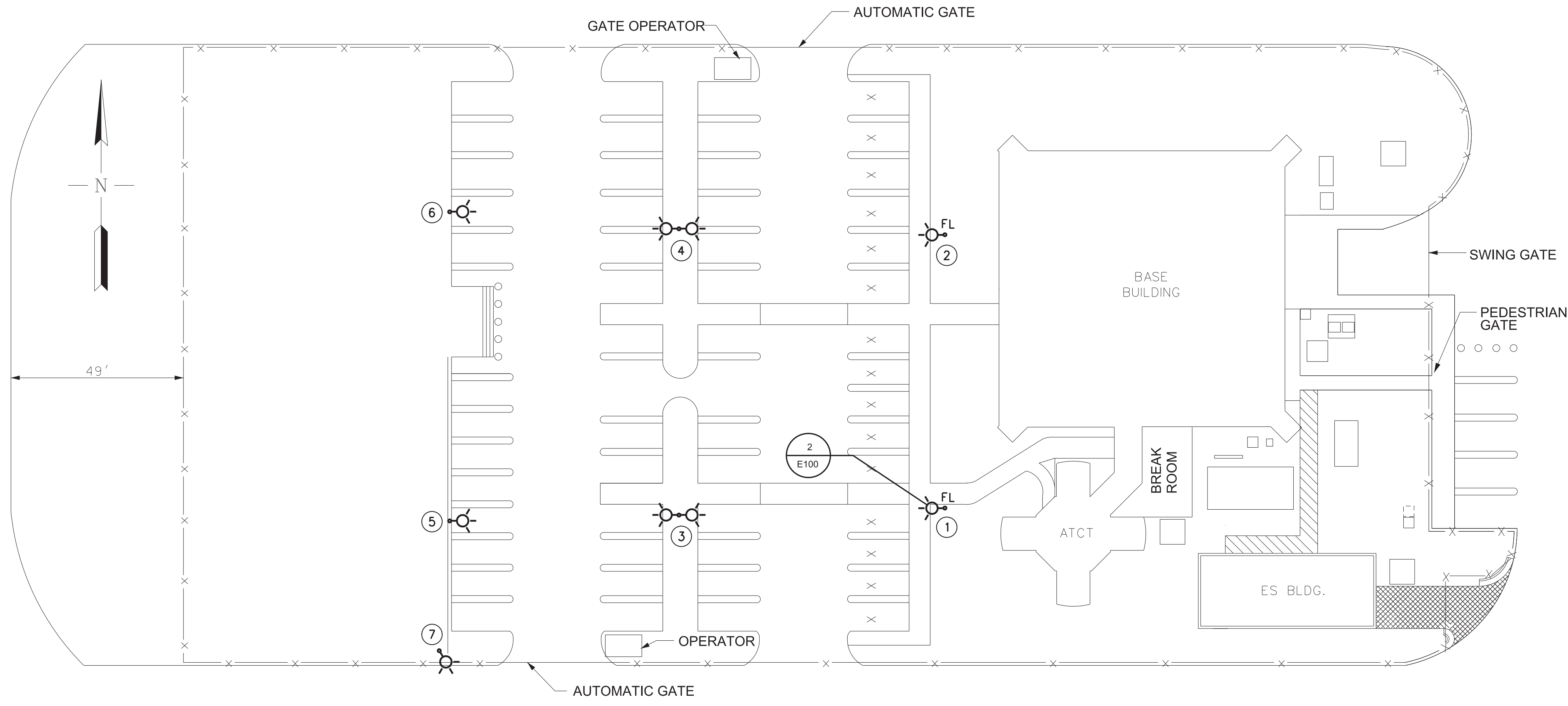
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DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION  
ATO - TECHNICAL OPERATIONS EASTERN SERVICE AREA

**ATCT**  
**LIGHTING REPLACEMENT PROJECT**  
**BASE BUILDING & LINK**  
**LIGHTING DEMOLITION PLAN**

FT LAUDERDALE FORT LAUDERDALE/HOLLYWOOD INTL AIRPORT FL

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| REVIEWED BY      | SUBMITTED BY       | APPROVED BY                             |
|                  | <i>[Signature]</i> | <i>[Signature]</i>                      |
| PROJECT ENGINEER | DESIGNED           | MGR: ENGINEERING CENTER                 |
| DM               | DM                 | DATE 05/29/2020 JCN 1507980             |
| DRAWN            | DM                 | ISSUED BY ENGINEERING SERVICES TERMINAL |
| CN               | CN                 | DRAWING NO FLL-D-1507980-D101 REV       |



**DETAIL NOTES:**

1. ALL MOUNTING BRACKETS AND ACCESORIES SHALL BE VERIFIED (CONSULT WITH LIGHTING MANUFACTURER) PRIOR ORDERING AND INSTALLATION TO ENSURE COMPATIBILITY WITH LIGHTING FIXTURES, FOR PROPER FIT, AND A SECURE AND COMPLETE ASSEMBLY.
2. USE ONLY STAINLESS STEEL HARDWARE FOR OUTDOORS.
3. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E601 FOR ADDITIONAL INFORMATION.

**2 FLOODLIGHT POLE MOUNTING DETAIL**  
E100 NOT TO SCALE

**1 ATCT MAIN PARKING LOT - SITE LIGHTING PLAN**  
E100 SCALE: 1" = 20'-0"

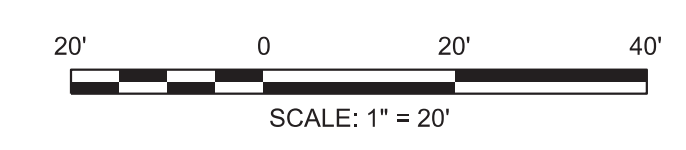
| POLE ID | FIXTURE TYPE | CONFIGURATION | REMARKS   |
|---------|--------------|---------------|---|
| 1       | H & I        | SINGLE        | REPLACE LIGHT FIXTURE AND PROVIDE TWO ADDITIONAL FLOODLIGHTS MOUNTED TO POLE. |
| 2       | H & I        | SINGLE        | REPLACE LIGHT FIXTURE AND PROVIDE TWO ADDITIONAL FLOODLIGHTS MOUNTED TO POLE. |
| 3       | I            | DOUBLE        | REPLACE LIGHT FIXTURE/S WITH DOUBLE HEAD CONFIGURATION                        |
| 4       | I            | DOUBLE        | REPLACE LIGHT FIXTURE/S WITH DOUBLE HEAD CONFIGURATION                        |
| 5       | I            | SINGLE        | REPLACE LIGHT FIXTURE   |
| 6       | I            | SINGLE        | REPLACE LIGHT FIXTURE   |
| 7       | I            | SINGLE        | REPLACE LIGHT FIXTURE   |

**SHEET NOTES:**

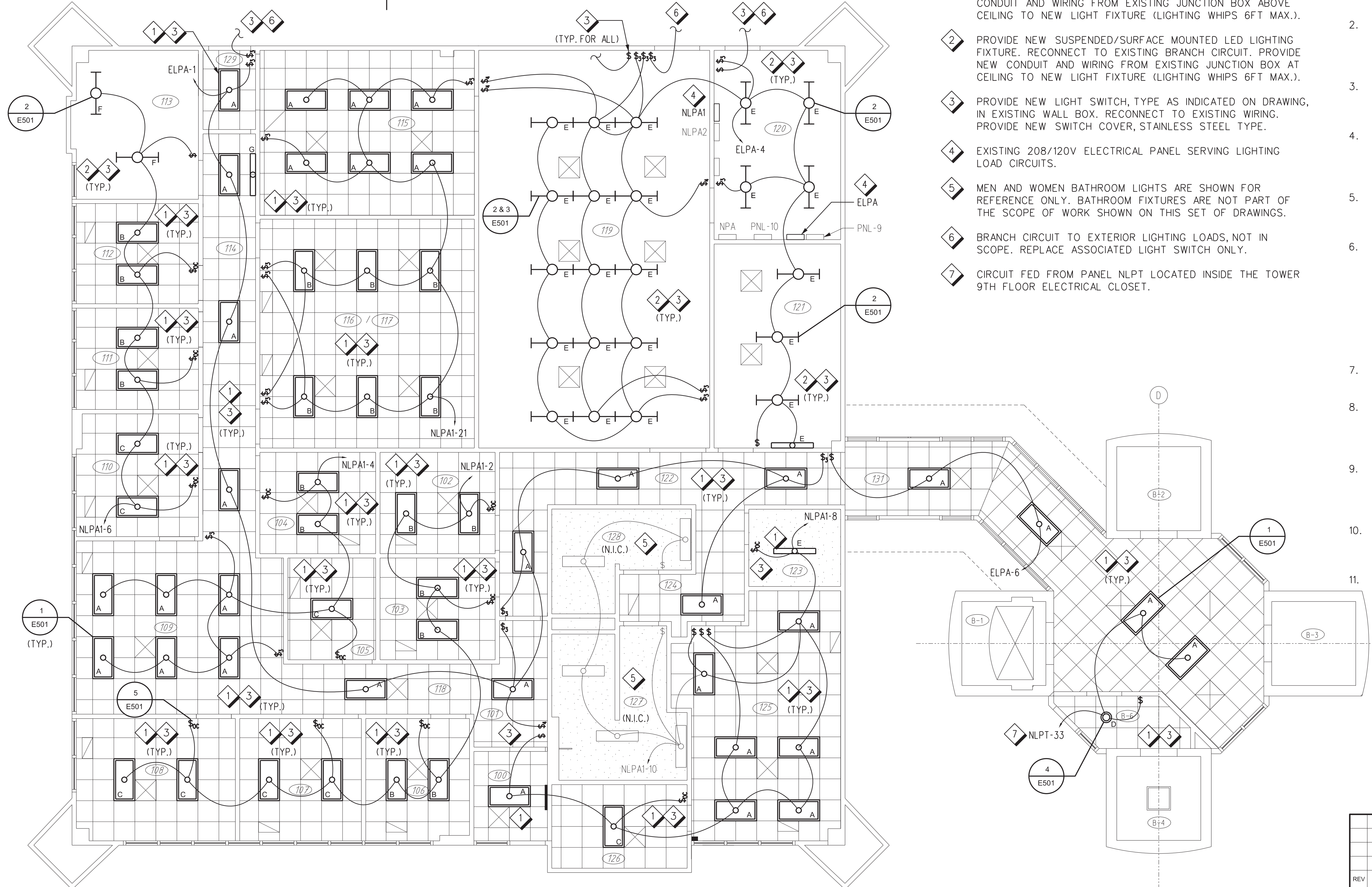
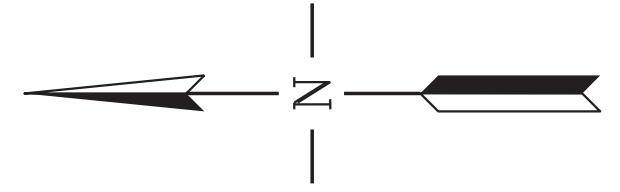
1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION OF ALL ELECTRICAL EQUIPMENT, DEVICES, BRANCH CIRCUIT CONNECTIONS AND PANELBOARD SCHEDULES, PRIOR TO DEMOLITION WORK.
2. CONTRACTOR SHALL REPLACE ALL EXISTING POLE MOUNTED FIXTURES FOR THE MAIN PARKING LOT AT THE FLL ATCT SITE. EXISTING 25' STEEL POLES ARE TO REMAIN, U.O.N.
3. PROVIDE NEW FIXTURES WITH MOUNTING BRACKET, HARDWARE AND ACCESSORIES FOR EACH TYPE OF CONFIGURATION SHOWN. INCLUDE UNIVERSAL MOUNTING BRACKET FOR RETROFIT APPLICATIONS.
4. CONNECT NEW FIXTURES TO EXISTING CIRCUIT AND TIME-CLOCK CONTROLS, SERVED BY PANEL NLPA-1. REPLACE WIRING FROM HANDHOLE AT THE BOTTOM OF POLE UP TO NEW FIXTURES. PROVIDE NEW FUSE HOLDER WITH 15A FUSE.
5. REFER TO DRAWING E601 FOR LIGHTING FIXTURE SCHEDULE.

**LEGEND:**

- POLE MOUNTED FIXTURE - SINGLE CONFIGURATION (ONE FIXTURE)
- POLE MOUNTED FIXTURE - DOUBLE CONFIGURATION (TWO FIXTURES)
- FL** DENOTES ADDITIONAL FLOODLIGHT FIXTURES INSTALLED ON POLE @ 15'-0" A.F.G. (SEE DETAIL 2/E100)



|  |              |  |  |                         |                    |
|--|--------------|--|--|-------------------------|--------------------|
| DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION<br>ATO - TECHNICAL OPERATIONS EASTERN SERVICE AREA |              |  |  |                         |                    |
| <b>ATCT</b>  |              |  |  |                         |                    |
| <b>LIGHTING REPLACEMENT PROJECT</b>  |              |  |  |                         |                    |
| <b>ATCT MAIN PARKING LOT</b>   |              |  |  |                         |                    |
| <b>SITE LIGHTING PLAN</b>  |              |  |  |                         |                    |
| FT LAUDERDALE  |              | FORT LAUDERDALE/HOLLYWOOD INTL AIRPORT |  | FL                      |                    |
| REVIEWED BY  | SUBMITTED BY | APPROVED BY                            |  |                         |                    |
|  |              |  |  |                         |                    |
| PROJECT ENGINEER   |              | ISSUED BY                              |  | MGR: ENGINEERING CENTER |                    |
| DESIGNED   | DM           | ENGINEERING SERVICES TERMINAL          |  | DATE                    | 05/29/2020         |
| DRAWN  | DM           |  |  | JCN                     | 1507980            |
| CHECKED  | CN           |  |  | DRAWING NO              | FLL-D-1507980-E100 |
|  |              |  |  | REV                     |                    |



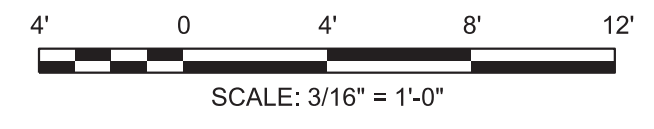
**SHEET NOTES**

- 1 PROVIDE NEW RECESSED MOUNTED LED LIGHTING FIXTURE. RECONNECT TO EXISTING BRANCH CIRCUIT. PROVIDE NEW CONDUIT AND WIRING FROM EXISTING JUNCTION BOX ABOVE CEILING TO NEW LIGHT FIXTURE (LIGHTING WHIPS 6FT MAX.).
- 2 PROVIDE NEW SUSPENDED/SURFACE MOUNTED LED LIGHTING FIXTURE. RECONNECT TO EXISTING BRANCH CIRCUIT. PROVIDE NEW CONDUIT AND WIRING FROM EXISTING JUNCTION BOX AT CEILING TO NEW LIGHT FIXTURE (LIGHTING WHIPS 6FT MAX.).
- 3 PROVIDE NEW LIGHT SWITCH, TYPE AS INDICATED ON DRAWING, IN EXISTING WALL BOX. RECONNECT TO EXISTING WIRING. PROVIDE NEW SWITCH COVER, STAINLESS STEEL TYPE.
- 4 EXISTING 208/120V ELECTRICAL PANEL SERVING LIGHTING LOAD CIRCUITS.
- 5 MEN AND WOMEN BATHROOM LIGHTS ARE SHOWN FOR REFERENCE ONLY. BATHROOM FIXTURES ARE NOT PART OF THE SCOPE OF WORK SHOWN ON THIS SET OF DRAWINGS.
- 6 BRANCH CIRCUIT TO EXTERIOR LIGHTING LOADS, NOT IN SCOPE. REPLACE ASSOCIATED LIGHT SWITCH ONLY.
- 7 CIRCUIT FED FROM PANEL NLPT LOCATED INSIDE THE TOWER 9TH FLOOR ELECTRICAL CLOSET.

**GENERAL NOTES**

1. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION OF ALL ELECTRICAL EQUIPMENT, BRANCH CIRCUIT CONNECTIONS AND PANELBOARD SCHEDULES, PRIOR TO DEMOLITION WORK.
2. ROUTE OF CONDUITS AND BRANCH CIRCUIT NUMBERS SHOWN ARE ILLUSTRATIVE AND INTENDED ONLY TO INDICATE CONNECTIONS BETWEEN ELECTRICAL DEVICES AND EQUIPMENT. EXACT ROUTING AND CIRCUIT CONNECTIONS SHALL BE CONFIRMED AT JOB SITE.
3. EVERY DAY AT THE END OF THE WORK SHIFT, THE CONTRACTOR SHALL CLEAN THE AREA OF WORK TO BE CLEAR OF ANY CONSTRUCTION MATERIAL AND OBSTRUCTION.
4. REPLACEMENT OF FIXTURES SHALL BE ACCOMPLISHED IN PHASES, BY BRANCH CIRCUIT GROUPS, TO MINIMIZE DOWNTIME OF EXISTING LIGHTING SYSTEM. ALL FIXTURES ON A SINGLE BRANCH CIRCUIT SHALL BE REPLACED AND TESTED PRIOR TO REMOVING THE NEXT GROUP.
5. EXISTING LIGHTING FIXTURES CAN BE USED FOR TEMPORARY LIGHTING DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ADDITIONAL TEMPORARY LIGHTING, AS REQUIRED.
6. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PROTECT ALL BUILDING ELEMENTS "TO REMAIN" FROM DAMAGE DURING CONSTRUCTION, TO INCLUDE BUT NOT LIMITED TO CEILING SYSTEM, FLOORING, FURNITURE, AND EQUIPMENT. THE CONTRACTOR SHALL RETURN TO ITS ORIGINAL STATE OR REPLACE WITH NEW PRODUCTS, ANY BUILDING ELEMENT OR COMPONENTS THAT ARE DAMAGED OR AFFECTED BY THE EXECUTION OF THE CONSTRUCTION ACTIVITIES, AND THAT IS NOT INCLUDED IN THE SCOPE OF WORK OF THIS PROJECT, AT NO ADDITIONAL COST TO THE GOVERNMENT.
7. CONTRACTOR SHALL MAINTAIN CONTINUITY FOR ALL CIRCUITS SERVING AREA NOT AFFECTED BY THE DEMOLITION WORK.
8. EXISTING SUSPENDED CEILING IS TO REMAIN. CONTRACTOR SHALL REPLACE ANY EXISTING CEILING TILES DAMAGED DURING CONSTRUCTION, AND PROVIDE NEW FOR ANY OPEN AREAS, AS A RESULT OF THE NEW LIGHTING LAYOUT CONFIGURATION.
9. CONTRACTOR SHALL PROTECT EXISTING FIRE ALARM DEVICES FROM DAMAGE DURING CONSTRUCTION, AND PROVIDE DUST COVERS FOR SMOKE DETECTORS. COORDINATE WITH COR TO TEMPORARILY DISABLE LOCAL SMOKE DETECTORS, TO AVOID FALSE TRIGGERING OF DEVICES.
10. NEW LIGHT FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURAL ELEMENTS ONLY. DO NOT ATTACH OR SUPPORT FROM EXISTING HVAC, RACEWAYS, OR OTHER OVERHEAD EQUIPMENT.
11. REFER TO DRAWING E601 FOR LIGHTING FIXTURE SCHEDULE.

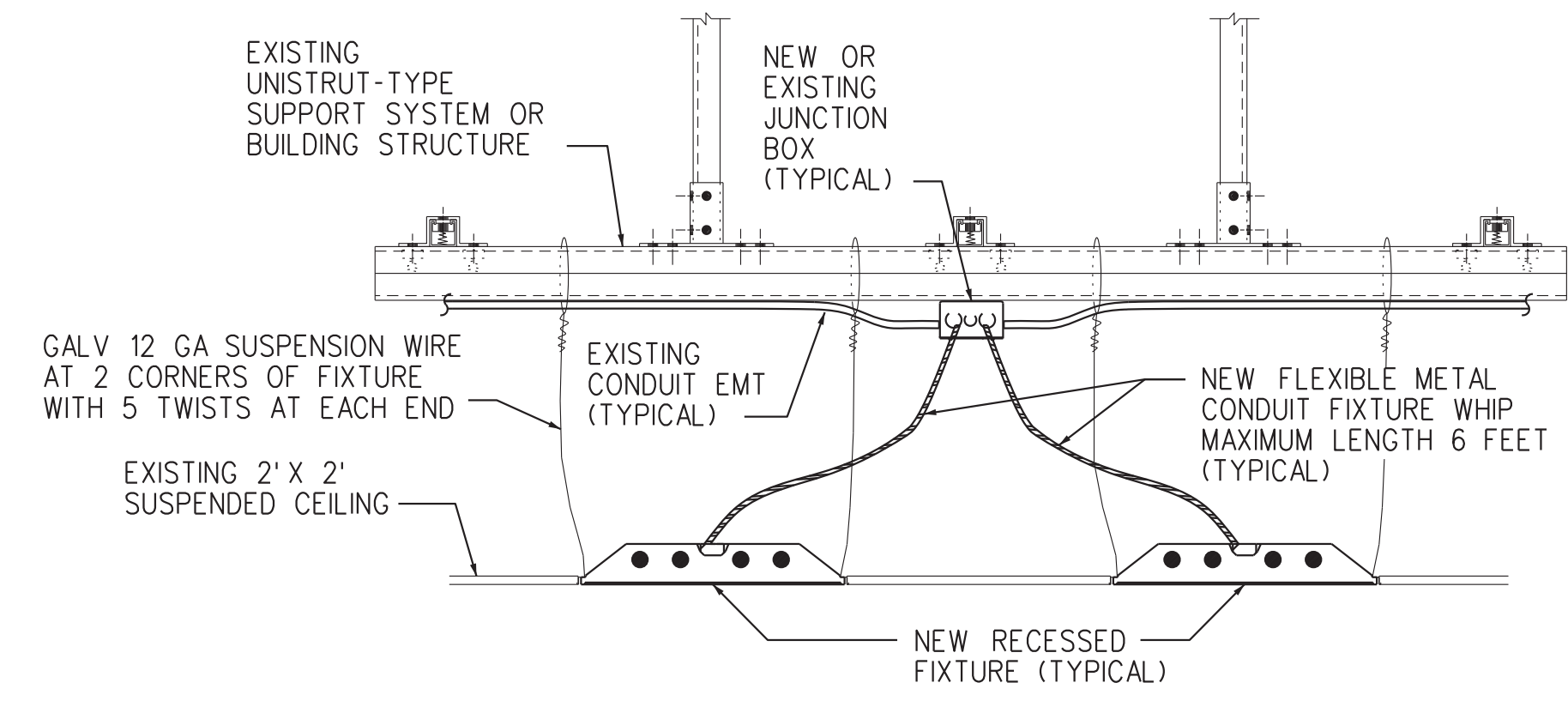
**1 BASE BUILDING & LINK - LIGHTING PLAN**  
E101 SCALE: 3/16" = 1'-0"



| REV  | APPROVED DATE      | DESCRIPTION                            | JCN                     | REDLINE DATE       | APVD        |
|--|--------------------|--|-------------------------|--------------------|-------------|
| DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION<br>ATO - TECHNICAL OPERATIONS EASTERN SERVICE AREA<br><b>ATCT</b><br><b>LIGHTING REPLACEMENT PROJECT</b><br><b>BASE BUILDING &amp; LINK</b><br><b>LIGHTING PLAN - NEW WORK</b> |                    |  |                         |                    |             |
| FT LAUDERDALE  |                    | FORT LAUDERDALE/HOLLYWOOD INTL AIRPORT |                         | FL                 |             |
| REVIEWED BY  | SUBMITTED BY       | APPROVED BY                            |                         |                    |             |
|  | <i>[Signature]</i> | <i>[Signature]</i>                     |                         |                    |             |
| PROJECT ENGINEER   | DESIGNED           | ISSUED BY                              | MGR: ENGINEERING CENTER |                    |             |
| DM   | DM                 | ENGINEERING SERVICES TERMINAL          | DATE                    | 05/29/2020         | JCN 1507980 |
| DRAWN  | DM                 |  | DRAWING NO              | FLL-D-1507980-E101 |             |
| CHECKED  | CN                 |  |                         |                    | REV         |

**GENERAL NOTES:**

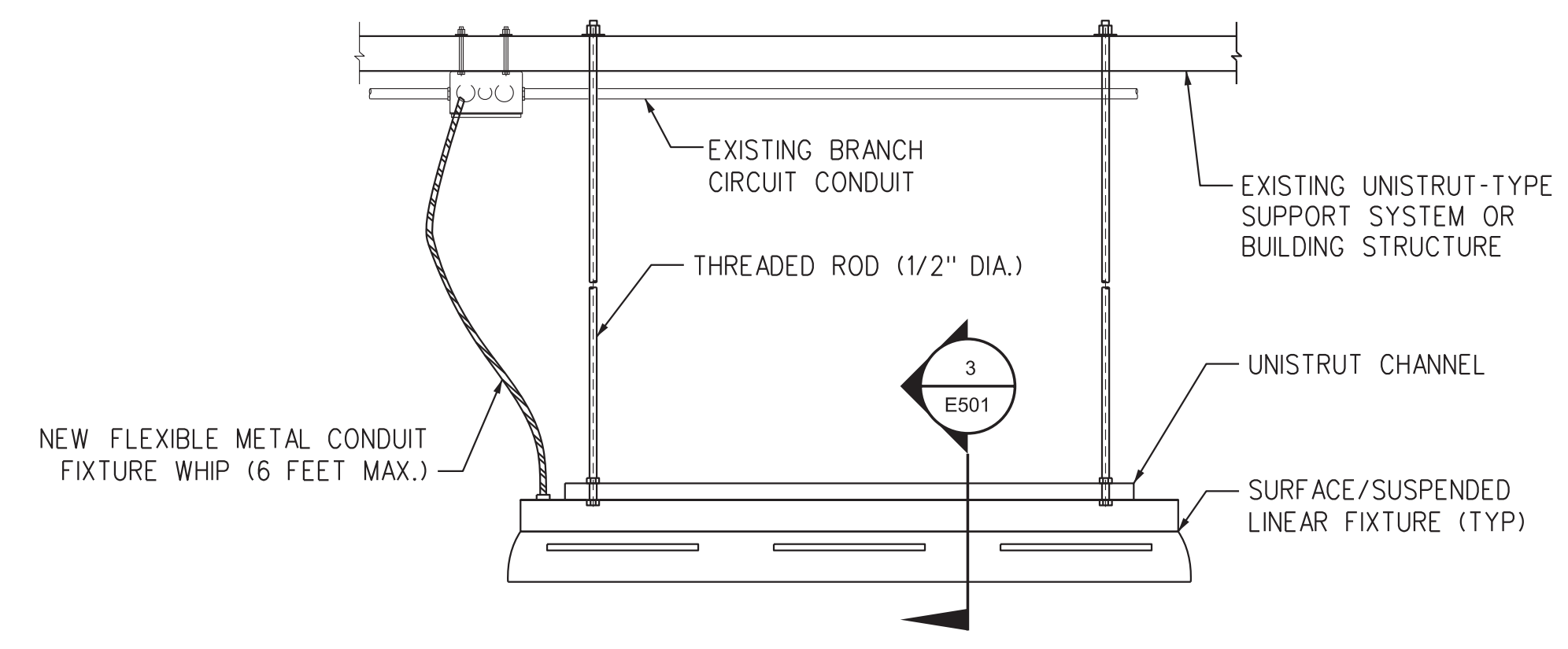
1. THIS DRAWING IS SCHEMATIC IN NATURE AND MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. MODIFICATIONS MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC INSTALLATION AND/OR APPLICATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE INSTALLATION OF THE EQUIPMENT/SYSTEM IS IN ACCORDANCE WITH PROJECT SPECIFICATIONS, MANUFACTURER INSTALLATION INSTRUCTIONS, AND APPLICABLE CODES AND STANDARDS.
2. ALL LUMINAIRE MOUNTING BRACKETS AND/OR ACCESSORIES SHALL BE VERIFIED (CONSULT WITH LIGHTING MANUFACTURER) PRIOR TO INSTALLATION TO ENSURE PROPER FIT, AND A SECURE AND COMPLETE ASSEMBLY.



**NOTES:**

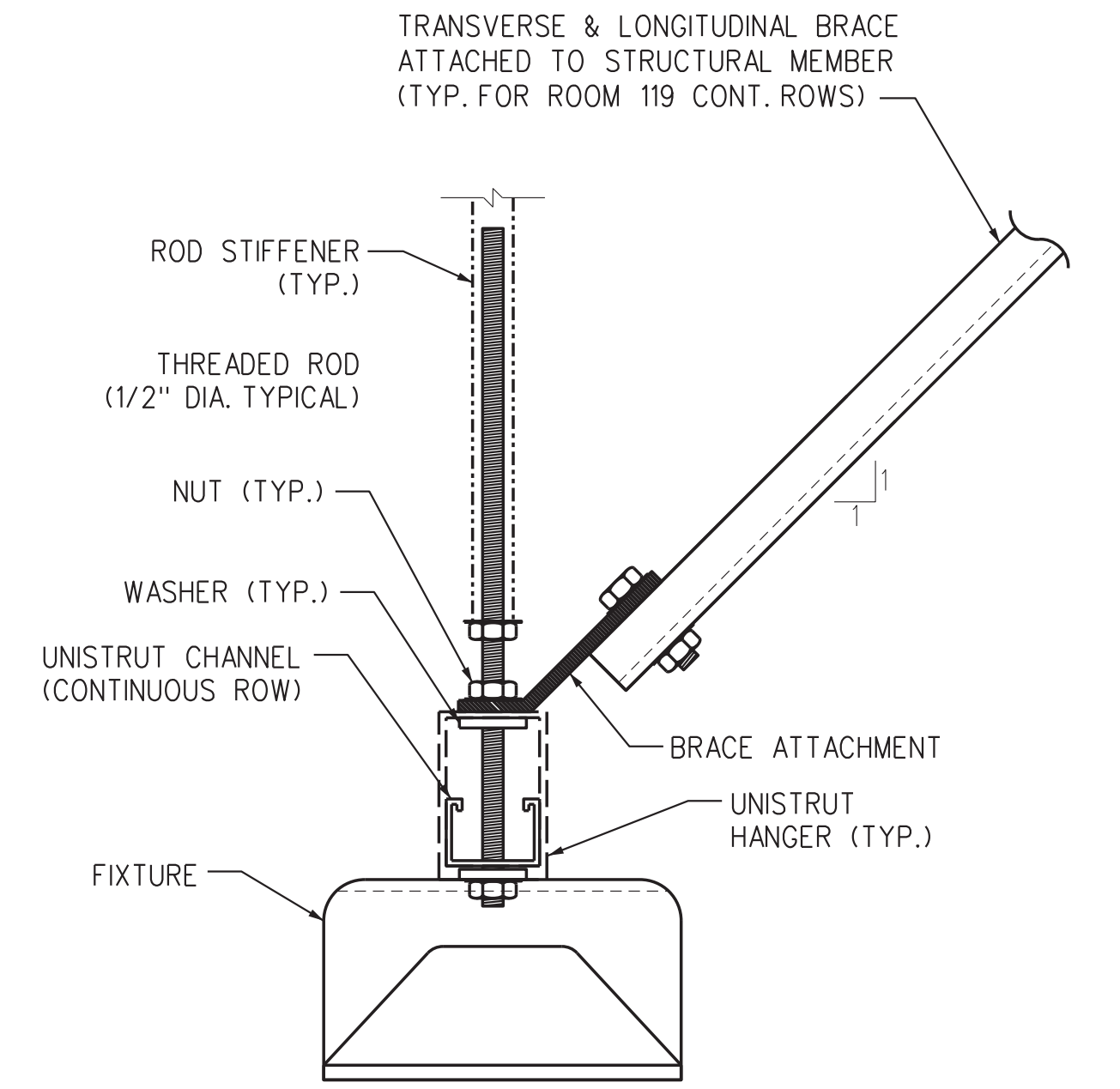
1. PROVIDE NEW CONDUIT AND WIRING FROM EXISTING JUNCTION BOXES TO SUPPORT NEW LIGHTING LAYOUT AND KEEP FLEXIBLE CONDUIT RUNS TO A MAXIMUM OF 6 FEET.
2. INSTALLATION OF LIGHTING FIXTURES AND SUPPORTS TO MEET PROJECT SPECIFICATIONS AND SEISMIC REQUIREMENTS.

**1 RECESSED 2'X4' FIXTURE MOUNTING DETAIL**  
E501 NOT TO SCALE

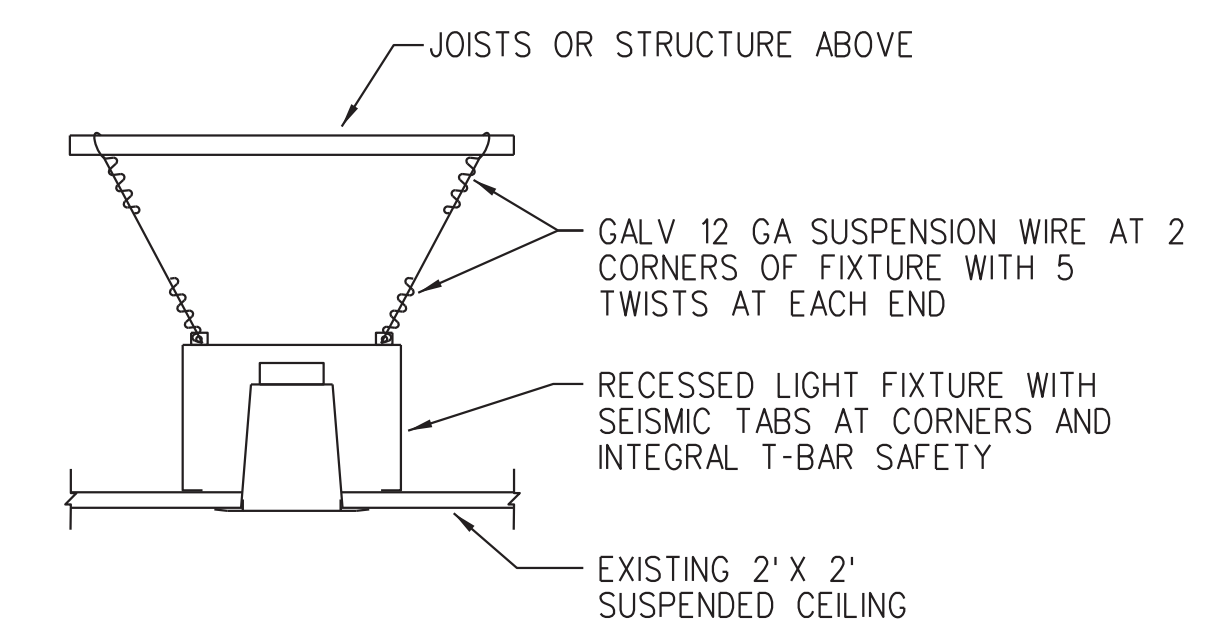


**NOTE:** CONTRACTOR MUST FIELD COORDINATE THE EXACT LOCATION OF FIXTURES WITH EXISTING OVERHEAD EQUIPMENT TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS.

**2 SUSPENDED FIXTURE STEM MOUNTING DETAIL**  
E501 NOT TO SCALE



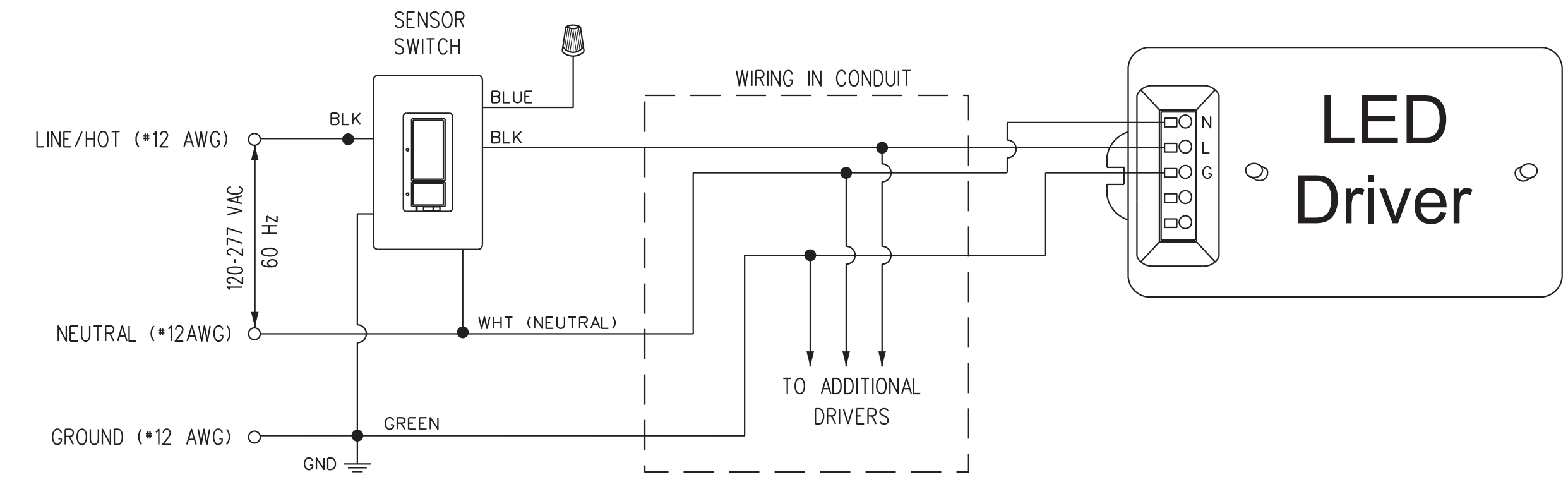
**3 SUSPENDED FIXTURE SUPPORT DETAIL**  
E501 NOT TO SCALE (DETAIL 2 - SECTION VIEW)



**NOTES:**

1. PROVIDE NEW CONDUIT AND WIRING FROM EXISTING JUNCTION BOXES TO SUPPORT NEW LIGHTING LAYOUT AND KEEP FLEXIBLE CONDUIT RUNS TO A MAXIMUM OF 6 FEET.
2. INSTALLATION OF LIGHTING FIXTURES AND SUPPORTS TO MEET PROJECT SPECIFICATIONS AND SEISMIC REQUIREMENTS.

**4 DOWNLIGHT FIXTURE MOUNTING DETAIL**  
E501 NOT TO SCALE



**NOTE:** PASSIVE INFRARED WALL SWITCH COMBINATION OCCUPANCY/VACANCY SENSORS: PROGRAMMABLE TO OPERATE AS AN OCCUPANCY SENSOR (AUTOMATIC-ON AND AUTOMATIC-OFF) OR A VACANCY SENSOR (MANUAL-ON AND AUTOMATIC-OFF); BAA (BUY AMERICAN ACT) COMPLIANT; 6 A LIGHTING (120-277 V); COVERAGE OF 900 SQUARE FEET (81SQ M) WITH MOUNTING HEIGHT OF 4 FEET (1.2 M); 180 DEGREE FIELD OF VIEW.

**5 OCCUPANCY/VACANCY SENSOR SWITCH WIRING DIAGRAM - TYPICAL**  
E501 NOT TO SCALE

| REV   | APPROVED DATE      | DESCRIPTION                   | JCN                     | REDLINE DATE       | APVD    |
|---|--------------------|-------------------------------|-------------------------|--------------------|---------|
| DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION<br>ATO - TECHNICAL OPERATIONS      EASTERN SERVICE AREA<br><br>ATCT<br>LIGHTING REPLACEMENT PROJECT<br>LIGHTING INSTALLATION DETAILS<br><br>FT LAUDERDALE      FORT LAUDERDALE/HOLLYWOOD INTL AIRPORT      FL |                    |                               |                         |                    |         |
| REVIEWED BY   | SUBMITTED BY       | APPROVED                      |                         |                    |         |
|   | <i>[Signature]</i> | <i>[Signature]</i>            |                         |                    |         |
| PROJECT ENGINEER  | DESIGNED           | ISSUED BY                     | MGR: ENGINEERING CENTER |                    |         |
| DM  | DM                 | ENGINEERING SERVICES TERMINAL | DATE                    | JCN                | 1507980 |
| DRAWN   | DM                 |                               | 05/29/2020              |                    | REV     |
| CHECKED   | CN                 |                               | DRAWING NO              | FLL-D-1507980-E501 |         |

### LIGHTING FIXTURE SCHEDULE



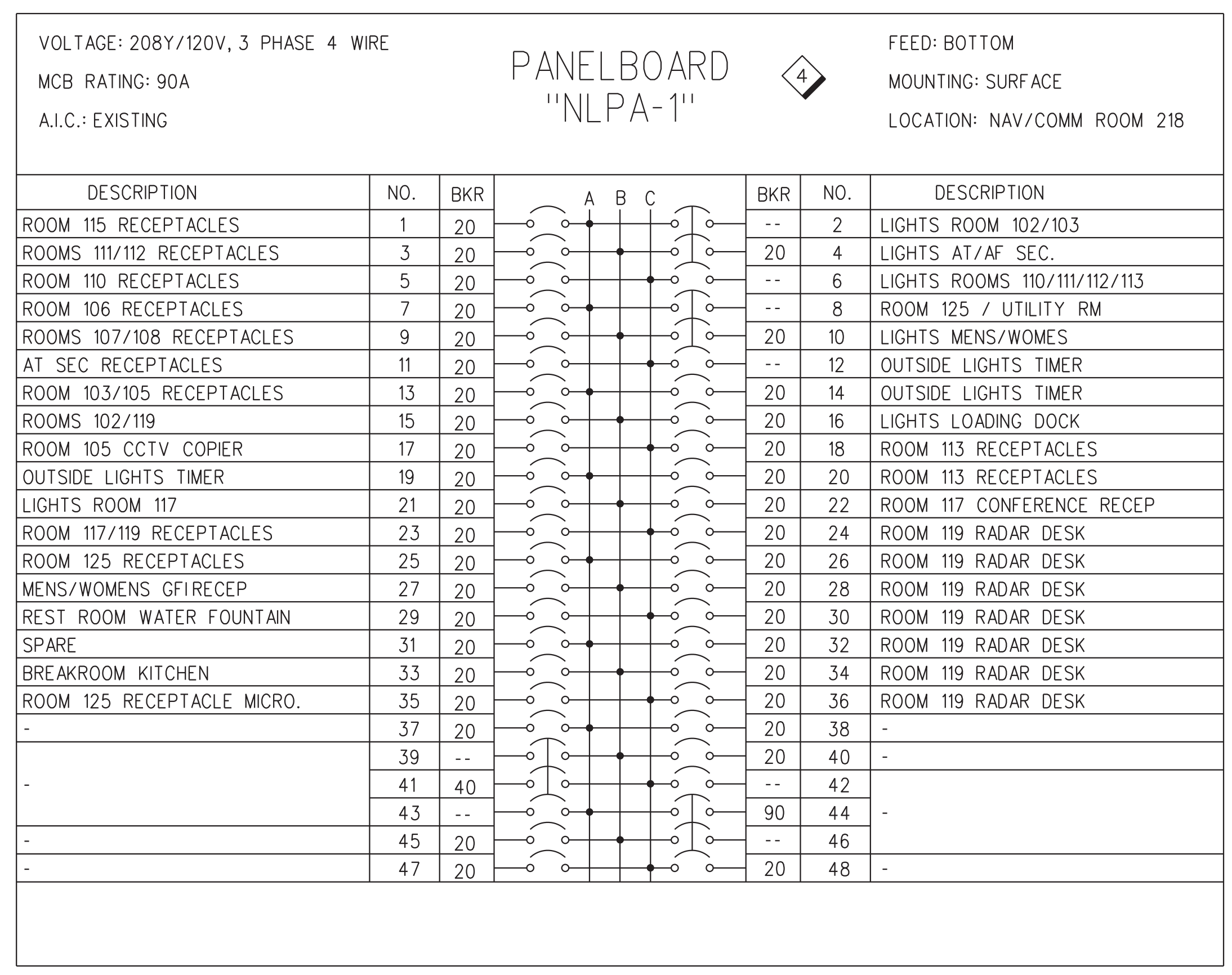
| LABEL | QTY. | MANUFACTURER                  | CATALOG NUMBER   | DESCRIPTION   | LAMP       | VOLTS | DRIVER     | MOUNTING             | REMARKS  |
|-------|------|-------------------------------|--|---|------------|-------|------------|----------------------|--|
| A     | (33) | MARK ARCHITECTURAL LIGHTING   | WHSPR 2X4 3000LM 35K 80CRIMINI ZT MVOLT SWC USPOM                  | LED ARCHITECTURAL RECESSED TROFFER 2X4 3000LM 3500K 80CRI W/ SOFT-WHITE CENTER LENS                                 | 3500K LEDs | 120   | LED DRIVER | RECESSED             | ---  |
| B     | (18) | MARK ARCHITECTURAL LIGHTING   | WHSPR 2X4 4000LM 35K 80CRIMINI ZT MVOLT SWC USPOM                  | LED ARCHITECTURAL RECESSED TROFFER 2X4 4000LM 3500K 80CRI W/ SOFT-WHITE CENTER LENS                                 | 3500K LEDs | 120   | LED DRIVER | RECESSED             | ---  |
| C     | (8)  | MARK ARCHITECTURAL LIGHTING   | WHSPR 2X4 4800LM 35K 80CRIMINI ZT MVOLT SWC USPOM                  | LED ARCHITECTURAL RECESSED TROFFER 2X4 4800LM 3500K 80CRI W/ SOFT-WHITE CENTER LENS                                 | 3500K LEDs | 120   | LED DRIVER | RECESSED             | ---  |
| D     | (1)  | GOTHAM ARCHITECTURAL LIGHTING | EVO4SQ 35/15 AR LSS MVOLT EZ1 USPOM                                | HIGH-PERFORMANCE SOLID-STATE RECESSED LED LUMINAIRE - 4 IN. SQUARE DOWNLIGHT, 80CRI, 3500K, 1500LM, CLEAR SEMI-SPEC | 3500K LEDs | 120   | LED DRIVER | RECESSED             | ---  |
| E     | (24) | LITHONIA LIGHTING             | BLWP4 40L AD5M EZ1LP840 USPOM                                      | LOW-PROFILE LED VOLUMETRIC WRAPAROUND FIXTURE - BLWP SERIES 4FT, 4000 LUMENS, CURVED SMOOTH LENS, 4000K CCT, 80CRI  | 4000K LEDs | 120   | LED DRIVER | SUSPENDED & SURFACE  | ---  |
| F     | (2)  | LITHONIA LIGHTING             | BLWP4 48L AD5M EZ1LP840 USPOM                                      | LOW-PROFILE LED VOLUMETRIC WRAPAROUND FIXTURE - BLWP SERIES 4FT, 4800 LUMENS, CURVED SMOOTH LENS, 4000K CCT, 80CRI  | 4000K LEDs | 120   | LED DRIVER | SUSPENDED            | ---  |
| G     | (1)  | MARK ARCHITECTURAL LIGHTING   | SILWD LCB 4FT MSL4 90CRI 35K 600LMF WW MN1 EGLD MVOLT SLV ZT USPOM | WALL MOUNTED LED FIXTURE - WALLWASH LINEAR  | 3500K LEDs | 120   | LED DRIVER | SURFACE/WALL MOUNTED | ---  |
| H     | (4)  | LITHONIA LIGHTING             | DSXF1LED P2 40K FL MVOLT IS DDBXD USPOM                            | HIGH PERFORMANCE LED FLOODLIGHT   | 4000K LEDs | 120   | LED DRIVER | POLE MOUNTED         | PROVIDE TENON BRACKETS AND ARMS ACCESSORIES (SIMILAR OR EQUAL TO SPAULDING FLB12-12). CONSULT WITH FACTORY FOR COMPATIBILITY WITH FIXTURE AND RETROFIT APPLICATION TO POLES. |
| I     | (9)  | LITHONIA LIGHTING             | DSX0 LED P6 40K T3S MVOLT SPUMBA DDBXD USPOM                       | HIGH PERFORMANCE LED AREA LUMINAIRE   | 4000K LEDs | 120   | LED DRIVER | POLE MOUNTED         | APPLICABLE FOR BOTH SINGLE AND DOUBLE HEAD CONFIGURATION, SEE DRAWING E100. PROVIDE UNIVERSAL MOUNTING BRACKET FOR RETROFIT ON EXISTING PRE-DRILLED POLES.                   |

#### GENERAL NOTES:

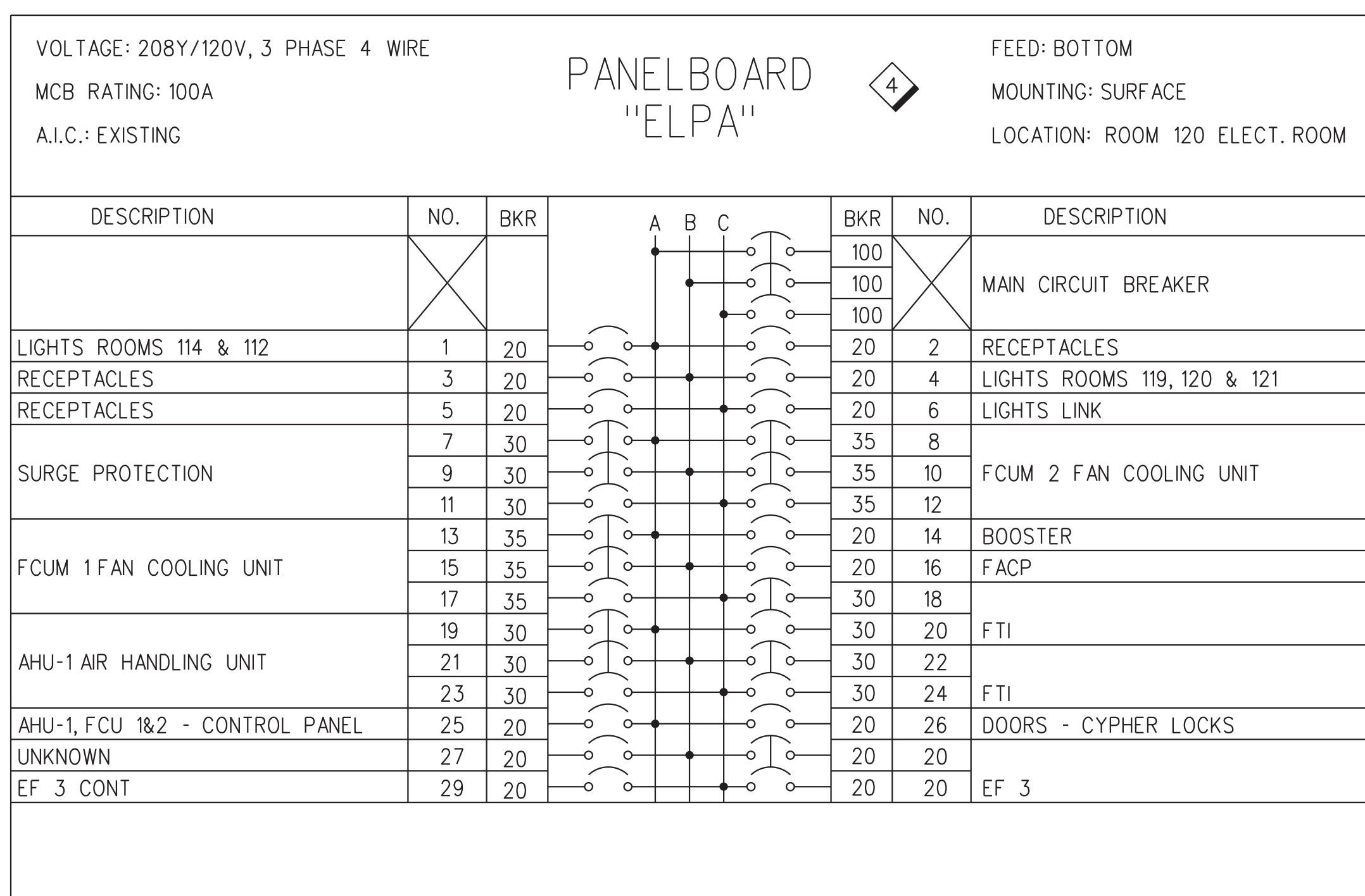
- EXTREME CAUTION MUST BE PRACTICED WHEN WORKING ON ANY OF THE ELECTRICAL POWER SYSTEMS (BUILDING, ESSENTIAL AND CRITICAL SERVICE). THIS IS AN OPERATIONAL AIR TRAFFIC CONTROL FACILITY AND UNAUTHORIZED ELECTRICAL OUTAGES MAY CAUSE ACCIDENTS AND/OR LOSS OF LIFE.
- ONLY FAA PERSONNEL MAY OPERATE CIRCUIT BREAKERS. THE CONTRACTOR SHALL NOT OPEN (DE-ENERGIZE) OR CLOSE (ENERGIZE) ANY CIRCUIT BREAKER AT ANY TIME. WORK REQUIRING PERMANENT, TEMPORARY OR PARTIAL ELECTRICAL OUTAGES SHALL BE COORDINATED IN ADVANCE WITH THE COR, FOR AFTER-HOURS.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION OF ALL ELECTRICAL EQUIPMENT, BRANCH CIRCUIT CONNECTIONS AND PANELBOARD SCHEDULES, PRIOR TO DEMOLITION WORK..
- MAINTAIN CONTINUITY FOR ALL CIRCUITS SERVING AREAS NOT AFFECTED BY DEMOLITION WORK.

#### SHEET NOTES:

- THE FIXTURES SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE ON THIS DRAWINGS ESTABLISH A LEVEL OF QUALITY, APPEARANCE, AND PERFORMANCE THAT ANY SUBSTITUTED FIXTURES MUST MATCH OR EXCEED. SUBSTITUTIONS FOR THE SPECIFIED FIXTURES SHALL BE SUBMITTED IN ADVANCE TO THE FAA COR AND WILL BE REVIEWED BY THE ENGINEER OF RECORD FOR COMPLIANCE AND APPROVAL. A LIGHTING PHOTOMETRIC STUDY SHALL BE INCLUDED AS PART OF THE SUBMITTAL FOR REVIEW AND APPROVAL.
- ALL LUMINAIRE BALLASTS, DRIVERS, ROW LENGTH OPTIONS, MOUNTING BRACKETS, SUPPORTS AND ACCESORIES SHALL BE VERIFIED (CONSULT WITH LIGHTING MANUFACTURER) PRIOR ORDERING AND INSTALLATION, TO ENSURE A PROPER FIT, AND A SECURE AND COMPLETE ASSEMBLY.
- PROVIDE LIGHTING PRODUCTS MANUFACTURED IN THE UNITED STATES OF AMERICA.
- PANELBOARD SCHEDULES ARE SHOWN AS REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY LIGHTING BRANCH CIRCUITS ASSOCIATED WITH THE SCOPE OF WORK. ALL LIGHTING BRANCH CIRCUITS ARE EXISTING TO REMAIN. CONTRACTOR SHALL CONNECT NEW LIGHT FIXTURES TO EXISTING BRANCH CIRCUIT WIRING.



**PANELBOARD "NLPA-1" SCHEDULE**  
FOR REFERENCE ONLY



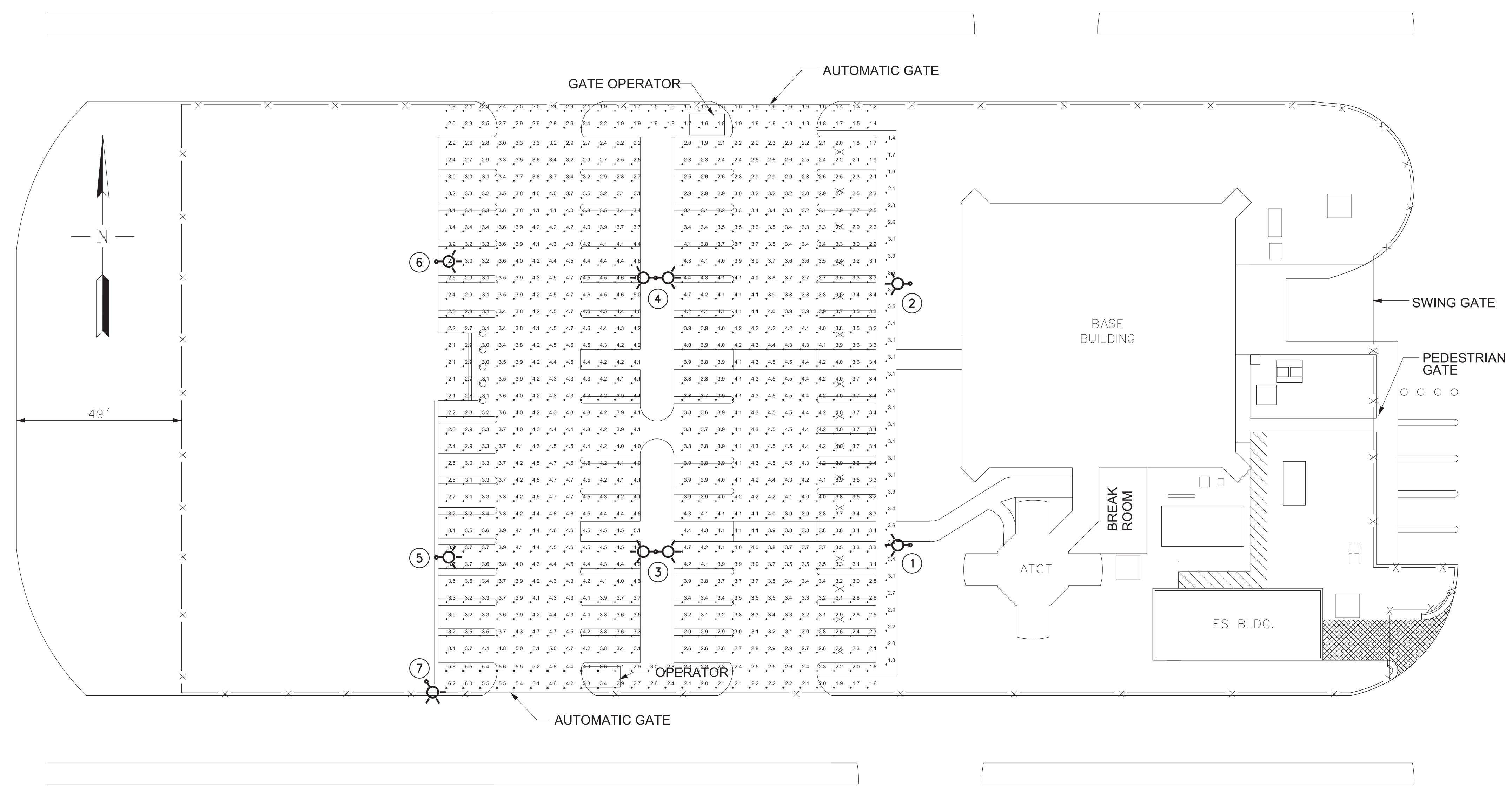
**PANELBOARD "ELPA" SCHEDULE**  
FOR REFERENCE ONLY

|  |                    |  |                         |              |      |
|--|--------------------|--|-------------------------|--------------|------|
| REV  | APPROVED DATE      | DESCRIPTION                            | JCN                     | REDLINE DATE | APVD |
| DEPARTMENT OF TRANSPORTATION<br><b>FEDERAL AVIATION ADMINISTRATION</b><br>ATO - TECHNICAL OPERATIONS      EASTERN SERVICE AREA<br><b>ATCT</b><br><b>LIGHTING REPLACEMENT PROJECT</b><br><b>LIGHTING &amp; PANELBOARD SCHEDULES</b> |                    |  |                         |              |      |
| FT LAUDERDALE  |                    | FORT LAUDERDALE/HOLLYWOOD INTL AIRPORT |                         | FL           |      |
| REVIEWED BY  | SUBMITTED BY       | APPROVED BY                            |                         |              |      |
|  | <i>[Signature]</i> | <i>[Signature]</i>                     |                         |              |      |
| PROJECT ENGINEER   | DESIGNED           | ISSUED BY                              | MGR: ENGINEERING CENTER |              |      |
| DM   | DM                 | ENGINEERING SERVICES TERMINAL          | DATE                    | 05/29/2020   | JCN  |
| DRAWN  | DM                 |  | DRAWING NO              | 1507980      | REV  |
| CHECKED  | CN                 |  | FLL-D-1507980-E601      |              |      |

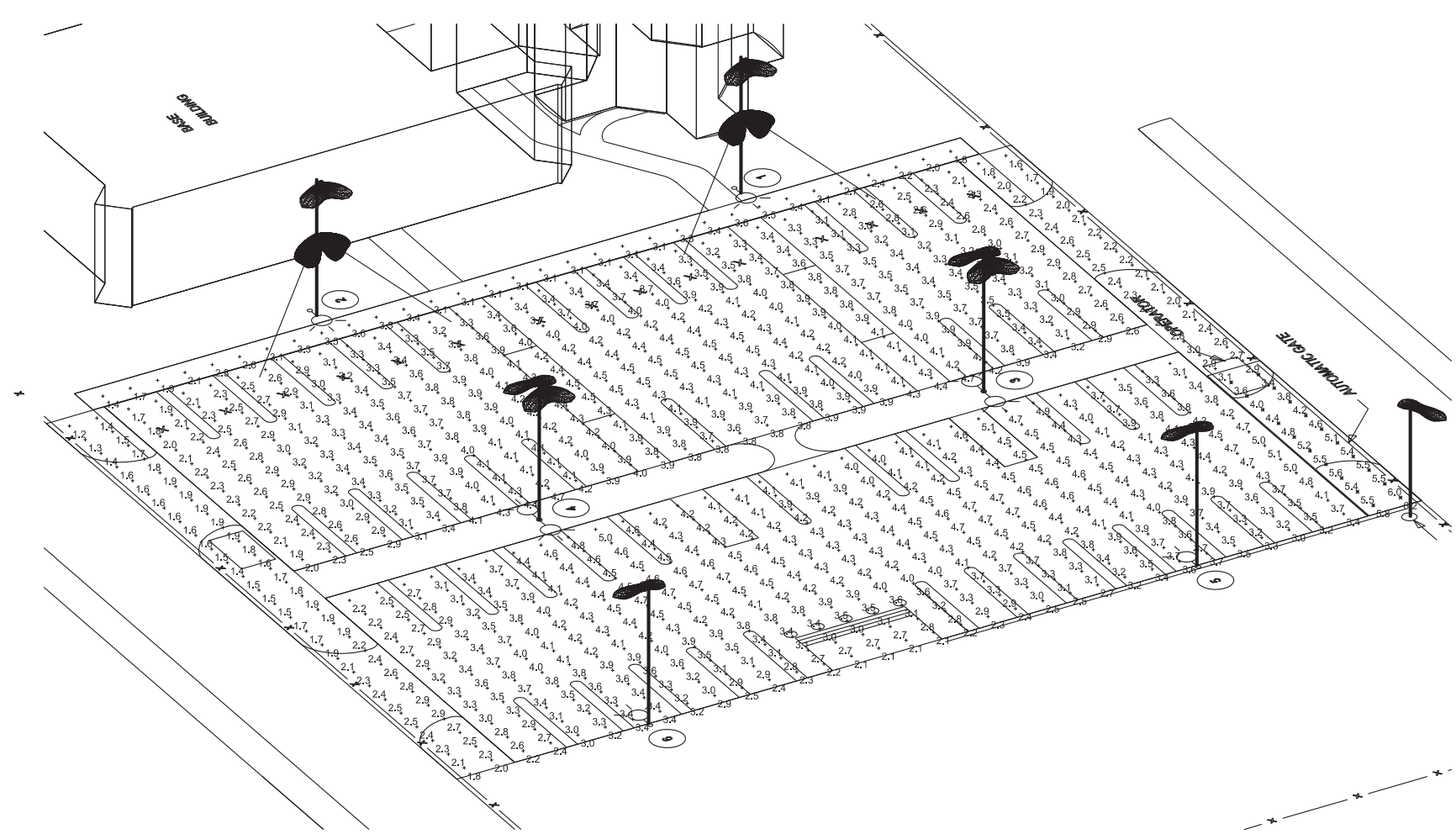
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 David Nemero

ISSUED FOR: CONSTRUCTION  
 EDW: FLL-D-1507980-E601.dgn





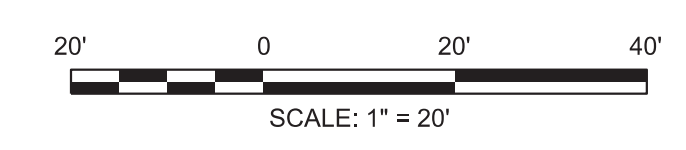
**1 ATCT MAIN PARKING LOT - LIGHTING PHOTOMETRIC PLAN**  
 SCALE: 1" = 20'-0"



**2 ATCT MAIN PARKING LOT - LIGHTING SIMULATION VIEW**  
 SCALE: 1" = 20'-0"

**STATISTICS:**

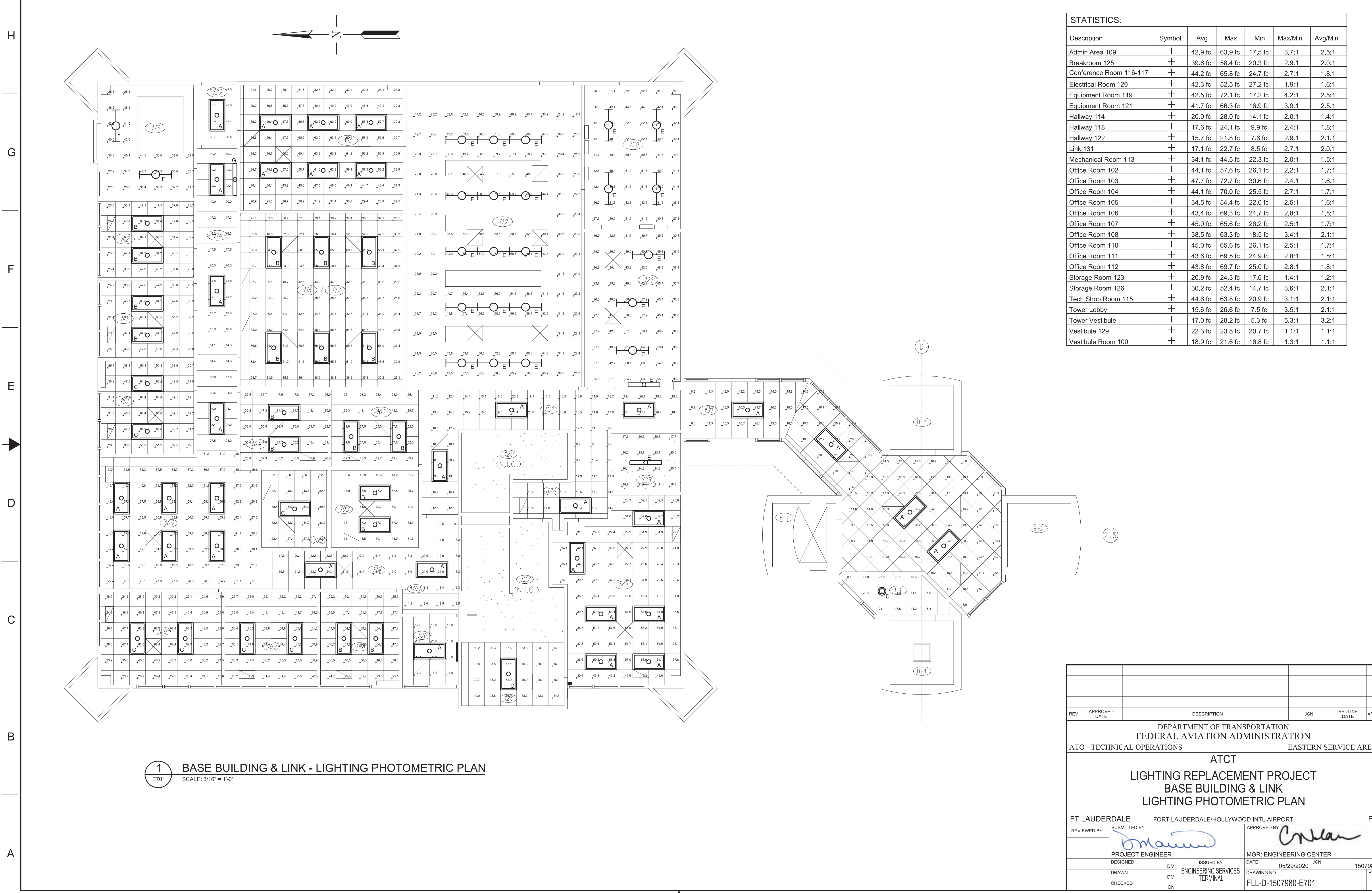
| Description        | Symbol | Avg    | Max    | Min    | Max/Min | Avg/Min |
|--------------------|--------|--------|--------|--------|---------|---------|
| Main Entrance Gate | ✱      | 5.0 fc | 6.2 fc | 3.4 fc | 1.8:1   | 1.5:1   |
| North Perimeter    | +      | 1.9 fc | 2.9 fc | 1.2 fc | 2.4:1   | 1.6:1   |
| Parking Lot A      | +      | 3.5 fc | 4.7 fc | 1.7 fc | 2.8:1   | 2.1:1   |
| Parking Lot B      | +      | 3.8 fc | 5.1 fc | 2.1 fc | 2.4:1   | 1.8:1   |
| Sidewalk           | +      | 2.9 fc | 3.6 fc | 1.4 fc | 2.6:1   | 2.1:1   |
| South Perimeter    | +      | 3.3 fc | 6.2 fc | 1.6 fc | 3.9:1   | 2.1:1   |



|  |                    |  |                         |                    |         |
|--|--------------------|--|-------------------------|--------------------|---------|
| REV  | APPROVED DATE      | DESCRIPTION                            | JCN                     | REDLINE DATE       | APVD    |
| DEPARTMENT OF TRANSPORTATION<br>FEDERAL AVIATION ADMINISTRATION<br>ATO - TECHNICAL OPERATIONS EASTERN SERVICE AREA<br><b>ATCT</b><br><b>LIGHTING REPLACEMENT PROJECT</b><br><b>ATCT MAIN PARKING LOT</b><br><b>LIGHTING PHOTOMETRIC PLAN</b> |                    |  |                         |                    |         |
| FT LAUDERDALE  |                    | FORT LAUDERDALE/HOLLYWOOD INTL AIRPORT |                         | FL                 |         |
| REVIEWED BY  | SUBMITTED BY       | APPROVED BY                            |                         |                    |         |
|  | <i>[Signature]</i> | <i>[Signature]</i>                     |                         |                    |         |
| PROJECT ENGINEER   | DESIGNED           | ISSUED BY                              | MGR: ENGINEERING CENTER | DATE               | JCN     |
| DM   | DM                 | ENGINEERING SERVICES TERMINAL          |                         | 05/29/2020         | 1507980 |
| DRAWN  | CN                 | CHECKED                                |                         | DRAWING NO         | REV     |
|  |                    |  |                         | FLL-D-1507980-E700 |         |

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 05/29/2020 3:15:53 PM  
 David Navarro

ISSUED FOR: CONSTRUCTION  
 EDM: FLL-D-1507980-E700.dgn



STATISTICS:

| Description             | Symbol | Avg     | Max     | Min     | Max/Min | Avg/Min |
|-------------------------|--------|---------|---------|---------|---------|---------|
| Admin Area 109          | +      | 42.9 fc | 63.9 fc | 17.5 fc | 3.7:1   | 2.5:1   |
| Breakroom 125           | +      | 39.6 fc | 58.4 fc | 20.3 fc | 2.9:1   | 2.0:1   |
| Conference Room 116-117 | +      | 44.2 fc | 65.8 fc | 24.7 fc | 2.7:1   | 1.8:1   |
| Electrical Room 120     | +      | 42.3 fc | 52.5 fc | 27.2 fc | 1.9:1   | 1.6:1   |
| Equipment Room 119      | +      | 42.5 fc | 72.1 fc | 17.2 fc | 4.2:1   | 2.5:1   |
| Equipment Room 121      | +      | 41.7 fc | 66.3 fc | 16.9 fc | 3.9:1   | 2.5:1   |
| Hallway 114             | +      | 20.0 fc | 28.0 fc | 14.1 fc | 2.0:1   | 1.4:1   |
| Hallway 118             | +      | 17.6 fc | 24.1 fc | 9.9 fc  | 2.4:1   | 1.8:1   |
| Hallway 122             | +      | 15.7 fc | 21.8 fc | 7.6 fc  | 2.9:1   | 2.1:1   |
| Link 131                | +      | 17.1 fc | 22.7 fc | 8.5 fc  | 2.7:1   | 2.0:1   |
| Mechanical Room 113     | +      | 34.1 fc | 44.5 fc | 22.3 fc | 2.0:1   | 1.5:1   |
| Office Room 102         | +      | 44.1 fc | 57.6 fc | 26.1 fc | 2.2:1   | 1.7:1   |
| Office Room 103         | +      | 47.7 fc | 72.7 fc | 30.6 fc | 2.4:1   | 1.6:1   |
| Office Room 104         | +      | 44.1 fc | 70.0 fc | 25.5 fc | 2.7:1   | 1.7:1   |
| Office Room 105         | +      | 34.5 fc | 54.4 fc | 22.0 fc | 2.5:1   | 1.6:1   |
| Office Room 106         | +      | 43.4 fc | 69.3 fc | 24.7 fc | 2.8:1   | 1.8:1   |
| Office Room 107         | +      | 45.0 fc | 65.6 fc | 26.2 fc | 2.5:1   | 1.7:1   |
| Office Room 108         | +      | 38.5 fc | 63.3 fc | 18.5 fc | 3.4:1   | 2.1:1   |
| Office Room 110         | +      | 45.0 fc | 65.6 fc | 26.1 fc | 2.5:1   | 1.7:1   |
| Office Room 111         | +      | 43.6 fc | 69.5 fc | 24.9 fc | 2.8:1   | 1.8:1   |
| Office Room 112         | +      | 43.8 fc | 69.7 fc | 25.0 fc | 2.8:1   | 1.8:1   |
| Storage Room 123        | +      | 20.9 fc | 24.3 fc | 17.6 fc | 1.4:1   | 1.2:1   |
| Storage Room 126        | +      | 30.2 fc | 52.4 fc | 14.7 fc | 3.6:1   | 2.1:1   |
| Tech Shop Room 115      | +      | 44.6 fc | 63.8 fc | 20.9 fc | 3.1:1   | 2.1:1   |
| Tower Lobby             | +      | 15.6 fc | 26.6 fc | 7.5 fc  | 3.5:1   | 2.1:1   |
| Tower Vestibule         | +      | 17.0 fc | 28.2 fc | 5.3 fc  | 5.3:1   | 3.2:1   |
| Vestibule 129           | +      | 22.3 fc | 23.8 fc | 20.7 fc | 1.1:1   | 1.1:1   |
| Vestibule Room 100      | +      | 18.9 fc | 21.6 fc | 16.8 fc | 1.3:1   | 1.1:1   |

**1 BASE BUILDING & LINK - LIGHTING PHOTOMETRIC PLAN**  
 E701 SCALE: 3/16" = 1'-0"

| REV | APPROVED DATE | DESCRIPTION | JCN | REDLINE DATE | APVD |
|-----|---------------|-------------|-----|--------------|------|
|     |               |             |     |              |      |
|     |               |             |     |              |      |

DEPARTMENT OF TRANSPORTATION  
 FEDERAL AVIATION ADMINISTRATION  
 ATO - TECHNICAL OPERATIONS EASTERN SERVICE AREA

**ATCT**  
**LIGHTING REPLACEMENT PROJECT**  
**BASE BUILDING & LINK**  
**LIGHTING PHOTOMETRIC PLAN**

FT LAUDERDALE FORT LAUDERDALE/HOLLYWOOD INTL AIRPORT FL

|                  |                    |                               |
|------------------|--------------------|-------------------------------|
| REVIEWED BY      | SUBMITTED BY       | APPROVED BY                   |
|                  | <i>[Signature]</i> | <i>[Signature]</i>            |
| PROJECT ENGINEER | DESIGNED           | MGR: ENGINEERING CENTER       |
| DM               | DM                 | DATE 05/29/2020 JCN 1507980   |
| DRAWN            | DM                 | DRAWING NO FLL-D-1507980-E701 |
| CHECKED          | CN                 | REV                           |

FLL-D-1507980-E701.dgn  
 5/26/2020 2:26:10 PM  
 David Navarro

ISSUED FOR: CONSTRUCTION  
 FLL-D-1507980-E701.dgn