| ELECTRICAL LEGEND                                                                                                                                                                                                     |                           |                                                                                                                                                                                            |                  |                                                                                                                                                                                                                                 |                                           |                                                                  |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| SYMBOL DESCRIPTION                                                                                                                                                                                                    | SYMBOL                    | DESCRIPTION                                                                                                                                                                                | SYMBOL           | DESCRIPTION                                                                                                                                                                                                                     | SYMBOL                                    | DESCRIPTION                                                      |                                                                                       |
| $\sim I$                                                                                                                                                                                                              | 03                        | CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, 360° COVERAGE<br>2 = SECOND CONTACT TO BE PROVIDED FOR CONNECTION TO BUILDING MANAGEMENT                                                 |                  | 1 BUTTON CONTROLLER                                                                                                                                                                                                             | $\overline{\mathbb{N}}$                   | OTHERWISE. BOX SHALL HAVE DUPL                                   | FOR TELEVISION MOUNTED AT 72" AFF UNLESS<br>EX RECEPTACLE AND DATA CONNECTIONS FO     |
| CEILING FAN, SEE LIGHTING FIXTURE SCHEDULE FOR TYPE                                                                                                                                                                   | -63-                      | CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, LONG RANGE COVERAGE                                                                                                                      | ĕ                | 2 START/STOP PUSHBUTTON CONTROLLER                                                                                                                                                                                              |                                           | TELEVISION AS DIRECTED BY OWNER<br>TV2MW OR APPROVED EQUIVALENT. | R/CLIENT/TENANT. BOX SHALL BE PASS & SEYM                                             |
|                                                                                                                                                                                                                       | T<br>Ø                    | 2 = SECOND CONTACT TO BE PROVIDED FOR CONNECTION TO BUILDING MANAGEMENT                                                                                                                    | ě                | 3 UP/STOP/DN PUSHBUTTON CONTROLLER                                                                                                                                                                                              |                                           |                                                                  | DX FOR TELEVISION RECESSED IN CEILING. BO<br>TA CONNECTIONS FOR TELEVISION AS DIRECTE |
| 2x4 LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED                                                                                                                                                                        | ¥<br>+                    | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, 180° COVERAGE<br>2 = SECOND CONTACT TO BE PROVIDED FOR CONNECTION TO BUILDING MANAGEMENT                                                    | EPO              | WALL MOUNTED 120V EMERGENCY OFF PUSH BUTTON WITH RED MUSHROOM STYLE HEAD WITH MANUAL PULL REST, NORMALLY OPEN, WITH CLEAR PROTECTIVE COVER. MOUNTED                                                                             | Ø                                         |                                                                  | BE PASS & SEYMOUR TV2MW OR APPROVED                                                   |
|                                                                                                                                                                                                                       | Ŷ                         | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, PIR TECHNOLOGY<br>OCCUPANCY SENSOR, LOW VOLTAGE (24VDC) 19mA DRAW, WATTSTOPPER CX100-1,                                                     | т                | AT 46" AFF UNLESS OTHERWISE NOTED.                                                                                                                                                                                              | ß                                         | ELECTRIC STRIKE                                                  |                                                                                       |
| 2x2 LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED                                                                                                                                                                        | -69-                      | LONG RANGE SENSOR. INSTALL WHERE FREE OF OBSTRUCTIONS.<br>WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, PIR TECHNOLOGY                                                                    |                  | WALL MOUNTED PUSH PLATE MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.                                                                                                                                                              | M                                         | MAGNETIC LOCK                                                    |                                                                                       |
| 0 4FT OR 8FT LIGHT FIXTURE, RECESSED OR SURFACE MOUNTED                                                                                                                                                               | -03-                      | OCCUPANCY SENSOR, LOW VOLTAGE (24VDC) 19mA DRAW, WATTSTOPPER CX100-3,<br>TWO SIDED AISLEWAY. INSTALL WHERE FREE OF OBSTRUCTIONS.                                                           | 208/120V         |                                                                                                                                                                                                                                 | 꼬                                         | DOOR CONTACTS                                                    |                                                                                       |
|                                                                                                                                                                                                                       | oŚ                        | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, SINGLE BUTTON ON/OFF                                                                                                                        |                  | PANELBOARD, SURFACE OR RECESSED MOUNTED AS SHOWN. SIZE, RATINGS, AND                                                                                                                                                            |                                           |                                                                  |                                                                                       |
| 4FT OR 8FT CHANNEL LIGHT FIXTURE, SUSPENDED OR SURFACE MOUNTED                                                                                                                                                        | OŞ                        | CONTROL, 180° COVERAGE, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.<br>WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, DUAL BUTTON ON/OFF                                                    |                  | MOUNTING AS INDICATED ON PANEL SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR<br>REQUIRED CLEARANCE IN FRONT OF ELECTRICAL PANEL. SEE NEC TABLE 110.26<br>WORKING SPACES FOR ADDITIONAL CLEARANCE CONDITIONS.                          |                                           | KEYPAD<br>MOTION DETECTOR (TYPE DENOTED)                         |                                                                                       |
| UNDER COUNTER LIGHT FIXTURE                                                                                                                                                                                           | O\$2                      | CONTROL, 180° COVERAGE, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.                                                                                                                         |                  |                                                                                                                                                                                                                                 | ₩<br>D                                    |                                                                  |                                                                                       |
| OIRECT/INDIRECT FIXTURE, SUSPENDED                                                                                                                                                                                    | 0\$D                      | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, DUAL BUTTON<br>ON/OFF CONTROL WITH 0-10V DIMMING, 180° COVERAGE, MOUNTED AT 46" AFF<br>UNLESS OTHERWISE NOTED. WATTSTOPPER DW-311 OR EQUAL. |                  | TRANSFORMER, SIZE AS INDICATED ON DRAWING                                                                                                                                                                                       | 0                                         | WALL MOUNTED CAMERA, WP INDICA                                   | TES WEATHERPROOF                                                                      |
| <b>ϼ ϼ ϼ</b> TRACK WITH LIGHT KIT                                                                                                                                                                                     |                           | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, DUAL BUTTON ON/OFF                                                                                                                          |                  |                                                                                                                                                                                                                                 | (S)                                       | CEILING MOUNTED SPEAKER                                          |                                                                                       |
|                                                                                                                                                                                                                       | 0\$F                      | CONTROL, 180° COVERAGE, ADDITIONAL POWER SUPPLY FOR FAN OPERATION, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.                                                                              |                  | METER                                                                                                                                                                                                                           | Ś                                         | WALL MOUNTED SPEAKER                                             |                                                                                       |
| RECESSED LIGHT FIXTURE                                                                                                                                                                                                | \$т                       | WALL MOUNTED DIGITAL TIMED SWITCH (5 MIN'S TO 12 HR'S), SINGLE BUTTON ON/OFF<br>CONTROL, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED.                                                        | PP               | SERVICE POLE, TWO-CHANNEL POLE WITH KNOCKOUTS FOR RECEPTACLES AND DATA DROPS.                                                                                                                                                   |                                           |                                                                  |                                                                                       |
| SURFACE LIGHT FIXTURE                                                                                                                                                                                                 | 0                         | RECESSED SINGLE/DOUBLE GANG BOX WITH BLANK COVER PLATE, MOUNTED 16" AFF,                                                                                                                   |                  |                                                                                                                                                                                                                                 |                                           | FLOOR MOUNTED DATA RACK                                          |                                                                                       |
| RECESSED WALL WASH LIGHT FIXTURE                                                                                                                                                                                      | I                         |                                                                                                                                                                                            | M                | ELECTRICAL MOTOR<br>GROUND BUS, "E" INDICATES ELECTRICAL GROUND BAR, "TG" INDICATES                                                                                                                                             |                                           |                                                                  |                                                                                       |
|                                                                                                                                                                                                                       | Ψ                         | RECESSED DEDICATED/PICTURE/CLOCK SINGLE OUTLET, 120VAC, 20A, MOUNTED AS INDICATED ON DRAWING.                                                                                              | <u> </u>         | TELECOMMUNICATIONS GROUND BAR                                                                                                                                                                                                   |                                           | WALL MOUNTED DATA RACK                                           |                                                                                       |
|                                                                                                                                                                                                                       | ₽                         | RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE NOTED. (SEE<br>ELECTRICAL MOUNTING HEIGHT DETAIL)                                                                       |                  | CABLE TRAY, LADDER TYPE                                                                                                                                                                                                         | 0                                         | PROJECTOR PAN, CEILING MOUNTED                                   |                                                                                       |
| EXIT SIGN, SINGLE FACE, CEILING, CHEVRON INDICATES DIRECTION.                                                                                                                                                         | Ð                         | RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.                                                                                                              |                  | CABLE TRAY, CENTER HUNG TYPE                                                                                                                                                                                                    |                                           |                                                                  |                                                                                       |
| EXIT SIGN, DOUBLE FACE, CEILING MOUNTED, CHEVRON INDICATES DIRECTION.                                                                                                                                                 | ⊕                         | RECEPTACLE, QUADPLEX, 120VAC, 20A MOUNTED 16"AFF UNLESS OTHERWISE NOTED (SEE<br>ELECTRICAL MOUNTING HEIGHT DETAIL)                                                                         |                  | CABLE TRAY, BASKET TYPE                                                                                                                                                                                                         | ▲ ()()                                    | 1 HOUR RATED FIRE WALL<br>1 HOUR RATED FIRE WALL - EXISTING      |                                                                                       |
| EXIT SIGN W/EMERGENCY LIGHTING UNIT, CEILING MOUNTED, CHEVRON INDICATES DIRECTION                                                                                                                                     | N. 🛨                      | RECEPTACLE, QUADPLEX, 120VAC, 20A, MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.                                                                                                            |                  | HAND HOLE, IN GRADE, TIER RATING AS INDICATED ON DRAWING                                                                                                                                                                        | (X)                                       |                                                                  |                                                                                       |
|                                                                                                                                                                                                                       |                           | RECEPTACLE, DUPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A, MOUNTED                                                                                                            |                  |                                                                                                                                                                                                                                 |                                           | 2 HOUR RATED FIRE WALL - EXISTING                                | 3                                                                                     |
| EXIT SIGN, SINGLE FACE, WALL/END MOUNTED, CHEVRON INDICATES DIRECTION.                                                                                                                                                |                           | 16" AFF, UNLESS OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)<br>RECEPTACLE, DUPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A,                                        |                  | HATCHING INDICATES ITEMS TO BE DEMOLISHED. REMOVE DEVICE, EQUIPMENT, FIXTURE<br>INDICATED, CIRCUIT, AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED.                                                                          |                                           | 3 HOUR RATED FIRE WALL                                           |                                                                                       |
| EXIT SIGN, DOUBLE FACE, WALL/END MOUNTED, CHEVRON INDICATES DIRECTION.                                                                                                                                                | Ш Ш                       | MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.                                                                                                                                               |                  | DEMOLITION KEY NOTE SYMBOL                                                                                                                                                                                                      |                                           | 3 HOUR RATED FIRE WALL - EXISTING                                | 3                                                                                     |
| EXIT SIGN W/EMERGENCY LIGHTING UNIT, WALL/END MOUNTED, CHEVRON INDICATES DIRECTION.                                                                                                                                   | <b>₩</b>                  | RECEPTACLE, QUADPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A<br>MOUNTED 16"AFF UNLESS OTHERWISE NOTED (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)                                  |                  | KEY NOTE SYMBOL                                                                                                                                                                                                                 | OHP<br>(X)OHP                             | OVERHEAD PRIMARY CONDUCTORS<br>OVERHEAD PRIMARY CONDUCTORS       | EXISTING                                                                              |
|                                                                                                                                                                                                                       | <b>⊕</b>                  | RECEPTACLE, QUADPLEX, GROUND FAULT CIRCUIT INTERRUPTER TYPE, 120VAC, 20A,<br>MOUNTED 6" ABOVE COUNTER TOP OR BACK SPLASH.                                                                  | $\Lambda$        | REVISION DELTA                                                                                                                                                                                                                  | UGP                                       | UNDERGROUND PRIMARY CONDUCTO                                     |                                                                                       |
| EMERGENCY LIGHTING UNIT, 2-HEAD WITH BATTERY BACK-UP, WALL MOUNTED, "NOT SWITCHED"                                                                                                                                    | Ŷ                         | RECEPTACLE, 250VAC, 2 POLE, 3 WIRE, WALL MOUNTED, SIZE AS INDICATED ON DRAWING                                                                                                             | WP WAP<br>WALL 🗙 | WIRELESS ACCESS POINT, 2 CAT6 DATA CABLES IN A DUAL GANG BOX<br>WITH A SINGLE GANG PLASTER RING, OWNER SHALL PROVIDE SURGE                                                                                                      | ——— онз ———                               | OVERHEAD SECONDARY CONDUCTO                                      | RS                                                                                    |
|                                                                                                                                                                                                                       | Ŷ                         | RECEPTACLE, 480VAC, 2 POLE, 3 WIRE, WALL MOUNTED, SIZE AS INDICATED ON DRAWING                                                                                                             |                  | PROTECTOR AND WAP DEVICE, THE ELECTRICAL CONTRACTOR SHALL<br>INSTALL.<br>WP - LISTED WEATHER-RESISTANT TYPE DEVICE                                                                                                              | (Х)ОНS<br>UGS                             | OVERHEAD SECONDARY CONDUCTO                                      |                                                                                       |
| EMERGENCY LIGHTING UNIT, 2-HEAD WITH BATTERY BACK-UP, CEILING MOUNTED, "NOT SWITCHED"                                                                                                                                 | Φ                         | RECEPTACLE, DUPLEX, 120VAC, 20A CEILING MOUNTED (LAY-IN / GYPBOARD / SUSPENDED)                                                                                                            |                  | COMBINATION DATA/TELEPHONE OUTLET, MOUNTED 16" AFF UNLESS OTHERWISE NOTED.                                                                                                                                                      | (X)UGS                                    | UNDERGROUND SECONDARY CONDL                                      |                                                                                       |
| **FOR ALL LIGHTING FIXTURE TYPES ABOVE:<br>LETTER ADJACENT TO FIXTURE INDICATES FIXTURE TYPE, SEE LIGHTING FIXTURE SCHEDULE                                                                                           | ۵D<br>E                   | RECEPTACLE, DUPLEX, 120VAC, 20A RECESSED FLOOR MOUNTED.                                                                                                                                    | 2V/2D<br>▼       | PROVIDE 1 1/4" CONDUIT TO ABOVE ACCESSIBLE GRID CEILING W/PULL STRING FOR OUTLETS LOCATED BELOW HARD (GYPBOARD) CEILINGS, ROUTE 1 1/4" CONDUIT TO TELEPHONE/DATA                                                                | G                                         | COPPER CLASS 1 CONDUCTOR ON R                                    | OOF                                                                                   |
| POWER & SWITCH LEG                                                                                                                                                                                                    | - ₽                       | UPS FED RECEPTACLE, DUPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS OTHERWISE<br>NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)                                                               |                  | ROOM.<br>#V = NUMBER OF VOICE CONNECTIONS / #D = NUMBER OF DATA CONNECTIONS, IF INDICATE                                                                                                                                        | GA ———                                    | ALUMINUM CLASS 1 CONDUCTOR ON                                    | ROOF                                                                                  |
| UNSWITCHED LEG                                                                                                                                                                                                        | ₽                         | UPS FED RECEPTACLE, QUADPLEX, 120VAC, 20A, MOUNTED 16" AFF, UNLESS<br>OTHERWISE NOTED. (SEE ELECTRICAL MOUNTING HEIGHT DETAIL)                                                             | 5                | WALL TELEPHONE OUTLET, MOUNTED 48" AFF UNLESS OTHERWISE NOTED. PROVIDE 1 1/4"                                                                                                                                                   |                                           | COPPER CLASS 1 CONDUCTOR BELO                                    | W GRADE                                                                               |
| CONDUIT, HOME RUN TO PANEL BOARD                                                                                                                                                                                      |                           | **FOR ALL RECEPTACLE TYPES ABOVE:                                                                                                                                                          |                  | CONDUIT TO ABOVE ACCESSIBLE GRID CEILING W/PULL STRING FOR OUTLETS LOCATED<br>BELOW HARD (GYPBOARD) CEILINGS, ROUTE 1 1/4" CONDUIT TO TELEPHONE/DATA ROOM.                                                                      | c                                         | CONTROL CABLE CONDUIT                                            |                                                                                       |
| PHOTOCELL, REMOTE MOUNTED, 120V, 10 SECOND TIME DELAY, UL WET LOCATION,                                                                                                                                               |                           | +XX"- INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES AFF (IF GIVEN) (SEE<br>ELECTRICAL MOUNTING HEIGHT DETAIL)                                                                              | 2V/2D            | COMBINATION DATA/TELEPHONE OUTLET, RECESSED CEILING MOUNTED (LAY-IN / GYPBOARD PROVIDE 1 1/4" CONDUIT TO ABOVE ACCESSIBLE GRID CEILING W/PULL STRING FOR OUTLETS                                                                |                                           | GROUND ROD, COPPER, 3/4"DIA x 10'-                               | 0" LONG                                                                               |
| RATED FOR 1500 W @ 120 VAC AND 4000 W @ 277 VAC (FOR USE WITH LAMP SOURCE(S) SHOWN.                                                                                                                                   |                           | WP - LISTED WEATHER-RESISTANT TYPE DEVICE WITH WEATHERPROOF IN USE COVER<br>TR - TAMPER RESISTANT<br>S - INDICATES THE TOP RECEPTACLE OF THE DEVICE IS CONTROLLED VIA WALL SWITCH          | $\odot$          | LOCATED BELOW HARD (GYPBOARD) CEILINGS, ROUTE 1 1/4" CONDUIT TO TELEPHONE/DATA ROOM.                                                                                                                                            | • <sub>"A"</sub>                          | COPPER AIR TERMINAL IN BRONZE B                                  | ASE                                                                                   |
| SWITCH, SINGLE POLE, 120/277VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED,<br>SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES                                                        |                           | H - DEVICE MOUNTED HORIZONTALLY<br>U - USB IN-WALL CHARGER                                                                                                                                 |                  | #V = NUMBER OF VOICE CONNECTIONS / #D = NUMBER OF DATA CONNECTIONS, IF INDICATE<br>COMBINATION POWER/DATA BOX. RECESSED FLOOR MOUNTED (POKE-THROUGH SIMILAR TO                                                                  | ⊙<br>●_ <sub>"B"</sub>                    | ALUMINUM AIR TERMINAL IN ALUMINU                                 | JM BASE                                                                               |
| FIXTURE SWITCHING, WHEN INDICATED.                                                                                                                                                                                    | 30A/3/3R,                 |                                                                                                                                                                                            | 2V/4D            | HUBBELL S1R6PTWZGRY). PROVIDE GRAY POWDER COAT COVER PLATE WITH FLUSH ACCESS<br>COVERS FOR EACH PLUG IN CONNECTION. PROVIDE PULL STRING IN CONDUIT. SEE DETAIL D                                                                | (T)                                       | 226V - STYLE THRU-ROOF CONNECTO                                  | DR (TYPE T)                                                                           |
| \$3 3-WAY SWITCH, 120/277 VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED SEE<br>ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES FIXTURE<br>SWITCHING, WHEN INDICATED.                     | W/ 30AF<br>다              | DISCONNECT SWITCH, FUSED, HEAVY DUTY, SIZE AS INDICATED ON DRAWINGS<br>##A = DISCONNECT SIZE / # = NUMBER OF POLES / # = NEMA RATING, / ##AF = FUSE SIZE                                   |                  | SHEET E-501                                                                                                                                                                                                                     | (1)                                       | 230V - STYLE THRU-ROOF CONNECTO                                  | DR (TYPE T1)                                                                          |
| \$4 4-WAY SWITCH 120/277 VAC, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED SEE                                                                                                                                      | Св                        | ENCLOSED CIRCUIT BREAKER, SIZE AS INDICATED ON DRAWINGS<br>##A = BREAKER SIZE / # = NUMBER OF POLES / # = NEMA RATING                                                                      | 2V/2D            | COMBINATION POWER/DATA BOX, RECESSED FLOOR MOUNTED (CAST-IN-PLACE). PROVIDE<br>BRASS COVER PLATE WITH FLUSH ACCESS COVERS FOR EACH PLUG IN CONNECTION.<br>PROVIDE PULL STRING IN CONDUIT UNDER SLAB TO NEAREST WALL, STUB ABOVE | ■ "BM"                                    | LIGHTNING CONDUCTOR CABLE CON                                    | NECTOR                                                                                |
| ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER INDICATES<br>FIXTURE SWITCHING, WHEN INDICATED.                                                                                                          | "Equip"                   | VARIABLE FREQUENCY DRIVE (VFD)                                                                                                                                                             | 26               | CEILING.<br>#G = GANG FLOOR BOX WITH TWO DUPLEX RECEPTACLES, VOICE AND DATA                                                                                                                                                     | $\bigcirc$                                | GROUNDING ELECTRODE CONDUCTO                                     |                                                                                       |
| SS INDICATES BI-LEVEL SWITCHING, 1 SWITCH SWITCHES OUTSIDE LAMPS, 1 SWITCH SWITCHES<br>INSIDE LAMPS. SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE LETTER<br>INDICATES FIXTURE SWITCHING, WHEN INDICATED. | "Equip"<br>#AMP<br>HMCP ⊠ | STARTER, FULL VOLTAGE, SIZE AS INDICATED ON DRAWINGS                                                                                                                                       |                  | 4 GANG FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA CAPABILITIES (CONFIRM WITH                                                                                                                                                     | <b>U</b>                                  | GROUNDING ELECTRODE CONDUCTO                                     | R, 10 COILED ABOVE GRADE                                                              |
| WEATHERPROOF SWITCH, SINGLE POLE 120/277 VAC, 20A, MOUNTED AT 46" AFF UNLESS                                                                                                                                          | (#HP)<br>NEMA #           |                                                                                                                                                                                            | MID<br>FB        | OWNER FOR REQUIREMENTS). PROVIDE METALLIC IN-USE COVER (HUBBELL CFB4G SERIES,<br>BLACK FLANGED CARPET COVER WITH 2 EGRESS DOORS OR EQUIVALENT). SEE DETAIL D4,<br>SHEET E-501                                                   |                                           |                                                                  |                                                                                       |
| \$ WP       OTHERWISE NOTED.         DIMMER SWITCH, 0-10V OR LINE VOLTAGE RATING AS REQUIRED BY LIGHTING FIXTURE(S). LINE                                                                                             | "Equip"<br>E #AMP □       | COMBINATION STARTER WITH CIRCUIT BREAKER DISCONNECT, FULL VOLTAGE, SIZE AS                                                                                                                 | <b>D</b>         | JUNCTION BOX - WALL MOUNTED                                                                                                                                                                                                     |                                           |                                                                  |                                                                                       |
| D\$ VOLTAGE RATED DIMMERS MUST BE 1500W FOR 120 VAC AND 4000W 277VAC MINIMUM.                                                                                                                                         | HMCP ⊠<br>(#HP)           | INDICATED ON DRAWINGS                                                                                                                                                                      |                  | +##" - INDICATES MOUNTING HEIGHT OF DEVICE IN INCHES AFF (if given)<br>JUNCTION BOX - CEILING/ABOVE CEILING MOUNTED                                                                                                             |                                           |                                                                  |                                                                                       |
| AFC\$ ADJUSTABLE FAN CONTROL, 120/277VAC, SINGLE POLE, 20A, MOUNTED AT 46" AFF UNLESS OTHERWISE NOTED, SEE ELECTRICAL DEVICES MOUNTING HEIGHT DETAIL. LOWER CASE                                                      | NEMA #                    | MANUAL MOTOR STARTER, ELECTRICAL CONTRACTOR SHALL COORDINATE POLES                                                                                                                         | J                | JUNCTION BOX - FLOOR MOUNTED                                                                                                                                                                                                    |                                           |                                                                  |                                                                                       |
| LETTER INDICATES FIXTURE SWITCHING, WHEN INDICATED                                                                                                                                                                    | MŞ##                      | AND SIZE WITH EQUIPMENT<br>## = AMPERAGE RATING WHEN INDICATED ON DRAWING                                                                                                                  |                  |                                                                                                                                                                                                                                 |                                           |                                                                  |                                                                                       |
| TYPICAL ABBREVIATIONS:                                                                                                                                                                                                |                           |                                                                                                                                                                                            |                  |                                                                                                                                                                                                                                 |                                           |                                                                  |                                                                                       |
| A, AMPAMPERECRCONTROL RELAY, CORROSION RESAFFABOVE FINISHED FLOORCSCONTROL SWITCH                                                                                                                                     |                           | FAFIRE ALARMHVHIGH VOLTAGEFAAPFIRE ALARM ANNUNCIATOR PANELHzHERTZ                                                                                                                          |                  | MLOMAIN LUGS ONLYPH,φMTDMOUNTEDPLC                                                                                                                                                                                              | PHASE<br>PROGRAMMABLE                     |                                                                  | SW SWITCH<br>SWBD SWITCHBOARD                                                         |
| AFGABOVE FINISHED GRADECVCONTROL VALVEAHUAIR HANDLING UNITCTCURRENT TRANSFORMER                                                                                                                                       |                           | FACPFIRE ALARM CONTROL PANELIMCINTERMEDIATEFBOFURNISHED BY OTHERSINCANDINCANDESCENT                                                                                                        | METALLIC CONDUIT | MTG MOUNTING PNL<br>MTS MANUAL TRANSFER SWITCH PP                                                                                                                                                                               | PANEL<br>POWER PANEL, P                   | POWER POLE                                                       | SWGR SWITCH GEAR<br>TEL TELEPHONE                                                     |
| AICAMPERE INTERRUPTING CAPACITYCUCOPPERATSAUTOMATIC TRANSFER SWITCHDCDIRECT CURRENTAWGAMERICAN WIRE GAUGEDIDOOR INTERLOCK                                                                                             |                           | FLAFULL LOAD AMPSJBJUNCTION BOXFLUORFLUORESCENTKTHOUSANDFLRFLOORKcmilTHOUSAND CIR                                                                                                          |                  | MVMEDIUM VOLTAGEPTN, NEUTNEUTRALPWRN/ANOT APPLICABLERECPT                                                                                                                                                                       | POTENTIAL TRAN<br>POWER<br>RCP RECEPTACLE |                                                                  | TPS TWISTED PAIR SHIELDED<br>TVSS, SPD TRANSIENT VOLTAGE SURGE SUP<br>TYP TYPICAL     |
| AWGAMERICAN WIRE GAUGEDIDOOR INTERLOCKBOFBOTTOM OF FIXTUREDISC SWDISCONNECT SWITCHBRKRBREAKERDNDOWN                                                                                                                   |                           | FLRFLOORKcmilTHOUSAND CIRFWEFURNISHED WITH EQUIPMENTKVAKILOVOLT AMPIGENGENERATORKWKILOWATTS                                                                                                |                  | N/A     NOT APPLICABLE     RECP       NC     NORMALLY CLOSED     REQ'D       NEC     NATIONAL ELECTRIC CODE     RGS                                                                                                             | REQUIRED                                  | ED STEEL CONDUIT                                                 | UG, UGND UNDERGROUND<br>UH UNIT HEATER                                                |
| C, CNDCONDUITEFEXHAUST FANCABCABINETEMEMERGENCY                                                                                                                                                                       |                           | G, GNDGROUNDKWHKILOWATT-HOUGFI, GFCIGROUND FAULT CIRCUIT INTERRUPTERLPLIGHTING PANE                                                                                                        |                  | NICNOT IN CONTRACTRMNLNIGHT LIGHTRTU                                                                                                                                                                                            | ROOM<br>REMOTE TELEME                     | TRY UNIT                                                         | UON UNLESS OTHERWISE NOTED<br>UTIL UTILITY                                            |
| CATCATALOGEMTELECTRICAL METALLIC TUBINGCLCHLORINEENCLENCLOSURE                                                                                                                                                        |                           | HHHANDHOLELTGLIGHTINGHIDHIGH INTENSITY DISCHARGEMCBMAIN CIRCUIT E                                                                                                                          | BREAKER          | NONORMALLY OPENSCRNTSNOT TO SCALESH                                                                                                                                                                                             | DC MOTOR DRIVE<br>SHEET                   | E                                                                | V VOLTS<br>VFD VARIABLE FREQUENCY DRIVE                                               |
| CB       CIRCUIT BREAKER       EPO       EMERGENCY POWER OFF         CCTV       CLOSED CIRCUIT TELEVISION       EQ, EQIP       EQUIPMENT         CKT       CIRCUIT       EUC       ENC                                |                           | HOAHAND-OFF-AUTOMCCMOTOR CONTRHPHORSE POWERMCPMOTOR CIRCUITHDEHICH POWER FACTORMDDMAIN DISTRIBUTION                                                                                        | T PROTECTOR      | P POLE SM<br>PA PUBLIC ADDRESS SPEC                                                                                                                                                                                             | SURFACE MOUNT<br>SPECIFICATION            |                                                                  | W WIRE, WATT<br>WH WATT-HOUR                                                          |
| CLG CEILING EWH ELECTRIC WATER HEATER                                                                                                                                                                                 |                           | HPS HIGH PRESSURE SODIUM MFR MANUFACTURE                                                                                                                                                   |                  | PBPULL BOX, PUSH-BUTTONSSPFPOWER FACTORSST                                                                                                                                                                                      | SELECTOR SWIT                             | L                                                                | XFMR TRANSFORMER                                                                      |
| CKT CIRCUIT EWC ELECTRIC WATER COOLER                                                                                                                                                                                 |                           | HPF HIGH POWER FACTOR MDP MAIN DISTRIBUT                                                                                                                                                   | TION PANEL       | PB PULL BOX, PUSH-BUTTON SS                                                                                                                                                                                                     | SELECTOR SWIT                             | CH<br>IL                                                         | WP WEATH                                                                              |

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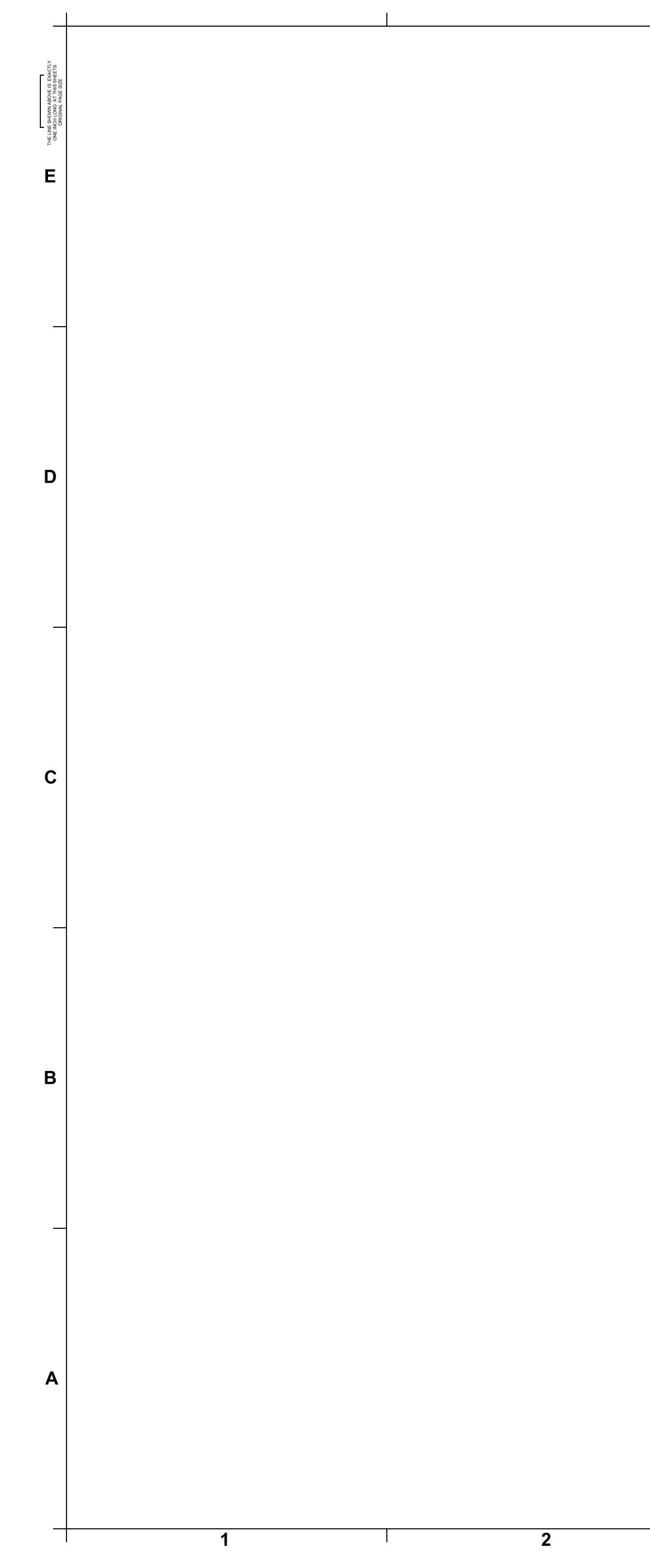
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| FA        | FIRE ALARM                       | HV     | HIGH VOLTAGE                  | MLO     | MAIN LUGS ONLY         |
|-----------|----------------------------------|--------|-------------------------------|---------|------------------------|
| FAAP      | FIRE ALARM ANNUNCIATOR PANEL     | Hz     | HERTZ                         | MTD     | MOUNTED                |
| FACP      | FIRE ALARM CONTROL PANEL         | IMC    | INTERMEDIATE METALLIC CONDUIT | MTG     | MOUNTING               |
| FBO       | FURNISHED BY OTHERS              | INCAND | INCANDESCENT                  | MTS     | MANUAL TRANSFER SWITCH |
| FLA       | FULL LOAD AMPS                   | JB     | JUNCTION BOX                  | MV      | MEDIUM VOLTAGE         |
| FLUOR     | FLUORESCENT                      | К      | THOUSAND                      | N, NEUT | NEUTRAL                |
| FLR       | FLOOR                            | Kcmil  | THOUSAND CIRCULAR MILLS       | N/A     | NOT APPLICABLE         |
| FWE       | FURNISHED WITH EQUIPMENT         | KVA    | KILOVOLT AMPERE               | NC      | NORMALLY CLOSED        |
| GEN       | GENERATOR                        | KW     | KILOWATTS                     | NEC     | NATIONAL ELECTRIC CODE |
| G, GND    | GROUND                           | KWH    | KILOWATT-HOURS                | NIC     | NOT IN CONTRACT        |
| GFI, GFCI | GROUND FAULT CIRCUIT INTERRUPTER | LP     | LIGHTING PANEL, LIGHT POLE    | NL      | NIGHT LIGHT            |
| HH        | HANDHOLE                         | LTG    | LIGHTING                      | NO      | NORMALLY OPEN          |
| HID       | HIGH INTENSITY DISCHARGE         | MCB    | MAIN CIRCUIT BREAKER          | NTS     | NOT TO SCALE           |
| HOA       | HAND-OFF-AUTO                    | MCC    | MOTOR CONTROL CENTER          | Р       | POLE                   |
| HP        | HORSE POWER                      | MCP    | MOTOR CIRCUIT PROTECTOR       | PA      | PUBLIC ADDRESS         |
| HPF       | HIGH POWER FACTOR                | MDP    | MAIN DISTRIBUTION PANEL       | PB      | PULL BOX, PUSH-BUTTON  |
| HPS       | HIGH PRESSURE SODIUM             | MFR    | MANUFACTURER                  | PF      | POWER FACTOR           |
| HTR       | HEATER                           | MH     | MANHOLE                       |         |                        |
|           |                                  |        |                               |         |                        |





| E   | LECTRICAL GENERAL NOTES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                          |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | ALL ELECTRICAL WORK SHALL BE IN FULL COMPLIANCE WITH NFPA 70, THE NORTH CAROLINA<br>STATE BUILDING CODE, ALL LOCAL CODES AND ORDINANCES AND IN ACCORDANCE WITH THE<br>REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.                                                                                                                                                                                                                                                                                       | W<br>RI                  | ROVIDE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL IN ACCOR<br>ITH THE NEC INCLUDING ALL ELECTRIC WATER COOLERS, EXTERIOR RECEPTACLES AND<br>ECEPTACLES IN AREAS SUBJECT TO POSSIBLE WET CONDITIONS. ALL RECEPTACLES                                                                                                                                                                    |
| 2.  | ALL EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE LISTED AND LABELED BY A<br>NATIONALLY-RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING<br>JURISDICTION, FOR THE CONDITIONS OF INSTALLATION. ALL MATERIAL, EQUIPMENT AND<br>DEVICES SHALL BE NEW CURRENT PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN<br>THE PRODUCTION OF SUCH PRODUCTS. EQUIPMENT SHALL BE SUITABLE FOR ITS APPLICATION                                                                                                            | 41. C<br>C               | STALLED WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED. ALL RECEPTACLES IN<br>ON-RESIDENTIAL KITCHENS SHALL BE GFI PROTECTED.<br>ONNECT BATTERY PACK TYPE EMERGENCY AND EXIT LIGHTING TO THE UNSWITCHED LIG<br>IRCUIT SERVING THE SPACE LIGHTED BY THE EMERGENCY AND EXIT FIXTURES. THESE<br>ONNECTIONS ARE INTENTIONALLY NOT SHOWN TO MAINTAIN DRAWING FOR CLARITY.                                  |
| 3.  | (E.G. WHEN INSTALLED OUTDOORS, IT SHALL BE WEATHERPROOF, ETC.)<br>THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR WORK<br>REQUIREMENTS, THE AMOUNT OF SPACE AVAILABLE FOR ELECTRICAL EQUIPMENT, AND LAYOUT                                                                                                                                                                                                                                                                                           | Pl                       | OORDINATE LIGHTING FIXTURE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILI<br>AN. IF CONFLICTS ARE NOTED, REQUEST CLARIFICATION FROM THE ARCHITECT/ENGINE<br>EFORE PROCEDING.                                                                                                                                                                                                                        |
| 4.  | HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER.<br>THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THOROUGHLY FAMILIARIZING HIMSELF<br>WITH ANY CONTRACTUAL REQUIREMENTS AS MAY BE SET FORTH IN THE OTHER DIVISIONS OF                                                                                                                                                                                                                                                                                               | SI                       | DJACENT SWITCHES SHALL BE GANGED. INSTALL BARRIERS BETWEEN UNLIKE VOLTAGE<br>ECTIONS.                                                                                                                                                                                                                                                                                                                 |
| 5.  | THE PROJECT SPECIFICATIONS.<br>UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE<br>ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULLY-FUNCTIONING AFTER INSTALLATION.                                                                                                                                                                                                                                                                                                                        | 45. W                    | EPARATE NEUTRALS ARE REQUIRED FOR ALL DIMMED LIGHTING CIRCUITS.<br>HERE THE DRAWINGS INDICATE A LIGHTING FIXTURE IS TO BE PROVIDED WITH SPECIAL<br>EATURES/SWITCHING (DIMMING, EMERGENCY BATTERY BALLAST, MULTI-LEVEL, ETC), THE                                                                                                                                                                      |
|     | INCIDENTAL COMPONENTS MAY NOT BE SHOWN, AND ALL WORK WHICH MAY BE REASONABLY<br>IMPLIED AS BEING INCIDENTAL TO THIS WORK, BUT REQUIRED FOR THE PROPER OPERATION OF<br>THE EQUIPMENT OR SYSTEM, SHALL BE PROVIDED BY THE CONTRACTOR AND INCLUDED IN THE<br>BID. ADDITIONAL CIRCUITS SHALL BE INSTALLED WHEREVER NEEDED TO CONFORM TO THE<br>SPECIFIC REQUIREMENTS OF EQUIPMENT.                                                                                                                                       | A(<br>IN<br>DI           | ONTRACTOR SHALL PROVIDE THESE FIXTURES WITH THE APPROPRIATE BALLASTING TO<br>CCOMMODATE THE SPECIAL FEATURE. THE CONTRACTOR SHALL PROVIDE THE FIXTURE<br>DICATED IN THE LIGHTING FIXTURE SCHEDULE WITH MODIFICATIONS AS REQUIRED BY<br>RAWING NOTES.<br>OORDINATE LOCATIONS OF MECHANICAL, DATA AND TELEPHONE AND AUDIO/VISUAL                                                                        |
| 6.  | TEMPORARY POWER CONNECTIONS AS REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR<br>AND INCLUDED IN THE BID. ALL TEMPORARY EQUIPMENT WIRING SHALL BE IN ACCORDANCE WITH<br>THE NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL PROVIDE DETAILS, METHODS,<br>MATERIALS, ETC. FOR REVIEW PRIOR TO MAKING TEMPORARY CONNECTIONS. FURNISH AND<br>INSTALL ALL EQUIPMENT AND MATERIALS INCLUDING CONTROL EQUIPMENT, MOTOR STARTERS,                                                                                              | EC<br>VI<br>EL           | QUIPMENT AND OF TENANT-PROVIDED EQUIPMENT WITH THE RESPECTIVE CONTRACTOR<br>ENDORS AND THE TENANT BEFORE ROUGH-IN. ADJUST LIGHTING FIXTURES, RECEPTACL<br>LECTRICAL EQUIPMENT TO ACCOMMODATE THIS EQUIPMENT. ADVISE THE<br>RCHITECT/ENGINEER OF CONFLICTS BEFORE ROUGH-IN                                                                                                                             |
| 7.  | BRANCH AND FEEDER CIRCUIT BREAKERS, PANELBOARDS, TRANSFORMERS, ETC. FOR<br>TEMPORARY POWER. COORDINATE WITH THE ELECTRICAL UTILITY COMPANY AS REQUIRED.<br>THE WORK SHALL INCLUDE COMPLETE TESTING OF ALL EQUIPMENT AND WIRING AT THE                                                                                                                                                                                                                                                                                | W<br>HI<br>(S            | EFORE COMMENCING WORK OR ORDERING MATERIALS, THE CONTRACTOR SHALL COORI<br>TH OTHER TRADES AND VERIFY THE NAMEPLATE RATINGS OF ALL EQUIPMENT (MOTORS<br>EATERS, COMPRESSORS, ETC.) AND ADJUST THE RATINGS OF THE ELECTRICAL EQUIPME<br>WITCHES, FUSES, CIRCUIT BREAKERS, FEEDERS, ETC.) AS APPROPRIATE TO SERVE THIS                                                                                  |
| 8.  | COMPLETION OF WORK AND ANY MINOR CORRECTIONS, CHANGES OR ADJUSTMENTS<br>NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM AND EQUIPMENT.<br>ALL ELECTRICAL EQUIPMENT SHALL, AT ALL TIMES DURING CONSTRUCTION, BE ADEQUATELY                                                                                                                                                                                                                                                                                         | 48. EI                   | QUIPMENT.<br>NERGIZE EQUIPMENT ONLY AFTER OBTAINING PERMISSION FROM THE CONTRACTOR PRO<br>HE EQUIPMENT.                                                                                                                                                                                                                                                                                               |
|     | PROTECTED AGAINST MECHANICAL INJURY, OR DAMAGE BY WATER AND/OR THE ELEMENTS.<br>ELECTRICAL EQUIPMENT SHALL NOT BE STORED OUT OF DOORS, BUT SHALL BE STORED IN DRY<br>PERMANENT SHELTERS. IF AN APPARATUS HAS BEEN DAMAGED, OR HAS BEEN SUBJECT TO<br>POSSIBLE INJURY BY WATER OR THE ELEMENTS, SUCH DAMAGE SHALL BE REPLACED AT NO<br>ADDITIONAL COST.                                                                                                                                                               | 49. TH<br>Ci<br>E0       | HE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL EQUIPMENT TERMINATIONS, PLU<br>ORDSETS WITH VENDOR EQUIPMENT AND VERIFY ALL DEVICE LOCATIONS FOR SPECIALI<br>QUIPMENT WITH CASEWORK PRIOR TO ROUGH-IN.                                                                                                                                                                                                  |
|     | DO NOT SCALE ELECTRICAL DRAWINGS. FIELD VERIFY ALL DIMENSIONS.<br>CIRCUIT LAYOUTS ARE NOT INTENDED TO SHOW THE NUMBER OF FITTINGS, OR OTHER                                                                                                                                                                                                                                                                                                                                                                          | M<br>FC                  | HE LAYOUT AND PLACEMENT OF ELECTRICAL DISTRIBUTION EQUIPMENT IN ELECTRICAL A<br>ECHANICAL EQUIPMENT ROOMS IS BASED ON PUBLISHED EQUIPMENT SIZES AND SHALL<br>DLLOWED AS CLOSELY AS POSSIBLE. DEVIATIONS FROM CONFIGURATIONS SHOWN IS THE<br>ESPONSIBILITY OF THE CONTRACTOR. PROVIDE NATIONAL ELECTRIC CODE REQUIRED                                                                                  |
|     | INSTALLATION DETAILS. UNLESS NOTED OTHERWISE, THE EXACT ROUTING OF FEEDER AND<br>BRANCH CIRCUIT RACEWAYS AND CABLES IS THE RESPONSIBILITY OF THE CONTRACTOR. RISER<br>AND GENERAL CIRCUIT ARRANGEMENTS ARE SHOWN SCHEMATICALLY/DIAGRAMMATICALLY<br>ONLY. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE<br>INSTALLATION.                                                                                                                                                                   | CI<br>SV<br>TF<br>51. TE | LEARANCES FOR ALL ELECTRICAL EQUIPMENT, PANELBOARDS, TRANSFORMERS, SAFETY<br>WITCHES, SWITCHBOARDS, ETC. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER<br>RADES. ADVISE THE ARCHITECT/ENGINEER OF CONFLICTS BEFORE ROUGH-IN.<br>ELECOMMUNICATIONS AND DATA CABLES WILL BE PROVIDED AND INSTALLED BY THE OW                                                                                            |
| 11. | UNLESS DIMENSIONED, DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE.<br>ADJUST EXACT LOCATIONS AS REQUIRED TO SERVE THE INTENDED PURPOSE AND TO AVOID<br>CONFLICTS AND INTERFERENCES WITH OTHER TRADES. EXACT DEVICE LOCATIONS SHALL BE AS<br>INDICATED ON THE ARCHITECTURAL DRAWINGS OR AS DIMENSIONED. IF NOT SHOWN ON THE                                                                                                                                                                                  | 52. C(<br>C(             | EAVE PULL WIRES OR ROPES OF ADEQUATE TENSILE STRENGTH IN ALL EMPTY CONDUITS<br>OORDINATE FIRE ALARM SYSTEM MODIFICATIONS WITH THE TENANT AND THE FIRE ALAR<br>ONTRACTOR. THE EXISTING SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES UNLESS<br>RRANGEMENTS HAVE BEEN MADE WITH THE TENANT.                                                                                                              |
| 12. | ARCHITECTURAL DRAWINGS OR DIMENSIONED ON THE ELECTRICAL DRAWINGS, VERIFY EXACT<br>LOCATION WITH THE ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.<br>CONDUIT TERMINATING IN PRESSED STEEL BOXES SHALL HAVE DOUBLE LOCKNUTS AND                                                                                                                                                                                                                                                                                               | 53. EL<br>IN<br>TE       | LECTRICAL CONTRACTOR IS RESPONSIBLE FOR FIRE ALARM WORK ON THIS PROJECT. TI<br>CLUDES BUT NOT LIMITED TO DE-PROGRAMMING REMOVED DEVICES, PUTTING SYSTEM<br>EST, PROTECTING EXISTING DEVICES DURING CONSTRUCTION, ETC. EC SHALL INCLUDE I                                                                                                                                                              |
| 13  | INSULATED BUSHINGS. CONDUITS TERMINATING IN GASKETED ENCLOSURES SHALL BE<br>TERMINATED WITH GROUNDING TYPE CONDUIT HUBS.<br>DEVICE BOXES SHOWN BACK-TO-BACK SHALL BE OFFSET A MINIMUM OF TWELVE (12) INCHES TO                                                                                                                                                                                                                                                                                                       | RI                       | HE COST FOR THE FIRE ALARM VENDOR TO PERFORM THIS WORK. THE EC SHALL BE<br>ESPONSIBLE FOR PAYING FOR ANY FALSE ALARMS CAUSED BY THE CONSTRUCTION FOR<br>ROJECT.                                                                                                                                                                                                                                       |
|     | REDUCE SOUND TRANSMISSION BETWEEN ROOMS.<br>BRANCH CIRCUIT HOMERUNS SHOWN ON DRAWINGS INDICATE PHASE CONDUCTORS, NEUTRAL,                                                                                                                                                                                                                                                                                                                                                                                            | BI                       | STALLATION INFORMATION PACKED WITH LIGHTING FIXTURES, DEVICES AND EQUIPMENT<br>E RETAINED FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUALS.                                                                                                                                                                                                                                                    |
| 15. | EQUIPMENT GROUND CONDUCTORS AS REQUIRED. ADDITIONAL CONDUCTORS REQUIRED FOR<br>CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.<br>SEAL ALL CONDUIT OPENINGS THROUGH EXTERIOR BUILDING WALLS WATERTIGHT.                                                                                                                                                                                                                                                                                                      | Al<br>Pf<br>Rl           | ROTECT ALL EXISTING POWER, COMMUNICATIONS, DATA, LIFE SAFETY SYSTEMS, FIRE AL<br>ND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE<br>ROGRESS OF THE WORK. NOTIFY THE TENANT AND ARCHITECT/ENGINEER IF SHUTDOWN<br>EQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED                                                                                     |
| 16. | IN WET LOCATIONS AND EXTERIOR, ALL WIRING DEVICES SHALL BE WEATHER-RESISTANT LISTED<br>WITH WEATHERPROOF WHILE IN USE COVER. LIGHTING FIXTURES SHALL BE APPROPRIATELY<br>RATED AND LISTED FOR THE ENVIRONMENT.                                                                                                                                                                                                                                                                                                       | RI                       | UTAGE CANNOT BE TOLERATED BY THE TENANT, PROVIDE TEMPORARY CONNECTIONS A<br>EQUIRED TO MAINTAIN SERVICE.<br>HE CONTRACT REQUIRES SEVERAL NEW CIRCUITS BE ADDED TO EXISTING PANELBOARD                                                                                                                                                                                                                 |
| 17. | RACEWAYS PENETRATING FLOORS, CEILINGS OR WALLS SHALL BE PROPERLY SEALED SMOKETIGHT.                                                                                                                                                                                                                                                                                                                                                                                                                                  | C<br>A                   | JMEROUS EXISTING CIRCUITS' LOADING WILL CHANGE AS A RESULT OF THIS WORK. THE<br>ONTRACTOR SHALL ENDEAVOR TO MAINTAIN PHASE BALANCE ON ALL PANELBOARDS<br>FFECTED BY THIS WORK. RECONNECT/MODIFY/EXTEND EXISTING CIRCUITING AS REQUIP<br>AINTAIN SAFE CIRCUIT LOADING AND PHASE BALANCE. COORDINATE CONNECTIONS TO                                                                                     |
| 18. | RACEWAYS PENETRATING RATED FLOOR, CEILING OR WALL ASSEMBLIES SHALL BE PROPERLY<br>SEALED IN ACCORDANCE WITH THE CORRESPONDING UNDERWRITERS LABORATORIES (OR<br>OTHER APPROVED THIRD PARTY TESTING AGENCY) APPROVED AND LISTED FIRESTOPPING<br>MATERIALS AND MANUFACTURER APPROVED INSTALLATION TECHNIQUES COMPLYING WITH ALL<br>APPLICABLE CODES. SEE ARCHITECTURAL DRAWINGS FOR IDENTIFICATION OF RATED WALLS                                                                                                       | E)<br>Pf<br>Al           | AINTAIN SAFE CIRCUIT LOADING AND PHASE BALANCE. COORDINATE CONNECTIONS TO<br>KISTING ELECTRICAL DISTRIBUTION SYSTEM WITH THE TENANT AND ARCHITECT/ENGINER<br>ROVIDE ACCURATE, UPDATED, TYPED PANEL SCHEDULES FOR ALL AFFECTED PANELS. N<br>LL FINAL CIRCUIT CONFIGURATIONS ON AS-BUILT DRAWINGS.<br>HE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY TO INSTALL                         |
| 19. | AND CEILINGS.<br>LIGHTING FIXTURES, SPEAKER ASSEMBLIES, ETC. MOUNTED IN FIRE-RATED CEILINGS SHALL BE<br>PROVIDED WITH UL-LISTED, PRE-FABRICATED OR FIELD FABRICATED SHROUDS/ACCESSORIES<br>NECESSARY TO MAINTAIN THE CEILING FIRE RATING.                                                                                                                                                                                                                                                                            | EC<br>C<br>D<br>T        | QUIPMENT AS REQUIRED AND SHALL REESTABLISH ALL FINISHES TO THEIR ORIGINAL<br>ONDITION WHERE CUTTING AND PATCHING OCCUR. ALL CUTTING AND PATCHING SHALL<br>ONE IN A THOROUGHLY WORKMANSHIP MANNER. SAW CUT CONCRETE AND MASONRY P<br>O BREAKING OUT SECTIONS. ALL PATCHING MATERIALS AND WORKMANSHIP SHALL BE<br>ERFORMED BY TRADESMEN EXPERIENCED IN THAT WORK. ALL WORK SHALL BE SUBJEC              |
| 20. | ALL RACEWAYS SHALL BE CONCEALED WHERE POSSIBLE. IF APPLICABLE, MATCH EXISTING RACEWAY INSTALLATION METHODS AND ROUTINGS AT OR NEAR EXISTING FACILITIES.                                                                                                                                                                                                                                                                                                                                                              | 58. IN                   | HE APPROVAL OF THE ARCHITECT/ENGINEER.<br>STALL WORK AT SUCH TIME AS TO REQUIRE THE MINIMUM AMOUNT TO CUTTING AND<br>ATCHING.                                                                                                                                                                                                                                                                         |
| 21. | INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES TO NEARBY SURFACES OR<br>STRUCTURAL MEMBERS, AND FOLLOW THE SURFACE CONTOURS AS MUCH AS POSSIBLE. NO<br>DIAGONAL RUNS WILL BE ALLOWED. ALL CONDUITS SHALL BE RUN STRAIGHT AND TRUE. RUN<br>PARALLEL OR BANKED RACEWAYS TOGETHER ON COMMON SUPPORTS WHERE PRACTICAL.<br>MAKE BENDS IN PARALLEL OR BANKED RUNS FROM SAME CENTERLINE TO MAKE BENDS                                                                                                              | 59. CI<br>60. W          | UT OPENINGS ONLY LARGE ENOUGH TO ALLOW EASY INSTALLATION OF THE CONDUIT.<br>THEN INDICATED, CONNECT NEW LOADS TO EXISTING ABANDONED CIRCUITS SERVING THE<br>REA AND NOTE CIRCUITS ON AS-BUILT DRAWINGS.                                                                                                                                                                                               |
| 22. | PARALLEL.<br>USE FLUSH MOUNTING OUTLET BOXES IN FINISHED AREAS AND FOR EXTERIOR DEVICES/LIGHT<br>FIXTURES UNLESS NOTED OTHERWISE.                                                                                                                                                                                                                                                                                                                                                                                    | EX                       | KISTING CIRCUITING WHERE SHOWN IS FOR CONVENIENCE PURPOSES ONLY. VERIFICAT<br>KISTING WIRING DESTINATION, TERMINATION AND ADDITIONS OF NEW LOADS IS THE<br>ESPONSIBILITY OF THE CONTRACTOR.                                                                                                                                                                                                           |
| 23. | PATCHING OF WATERPROOFED SURFACES SHALL RENDER THE AREA OF THE PATCHING COMPLETELY WATERPROOF.                                                                                                                                                                                                                                                                                                                                                                                                                       |                          | AINTAIN CONTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFF<br>Y THIS WORK.                                                                                                                                                                                                                                                                                                         |
|     | SURFACE MOUNTED PANELBOARDS, JUNCTION, OUTLET AND PULL BOXES, RACEWAYS, ETC.,<br>INSTALLED ON EXTERIOR SURFACES OR INSIDE ON EXTERIOR WALLS SHALL BE SUPPORTED BY<br>SPACERS TO PROVIDE A 1/4" MINIMUM CLEARANCE BETWEEN THE WALL AND EQUIPMENT.<br>CEILING MOUNTED DEVICES INSTALLED IN ACOUSTICAL TILE CEILING AREAS SHALL BE                                                                                                                                                                                      | RI<br>Al<br>VI           | ESIGN AND ADDITION OF NEW CIRCUITING IS BASED ON THE ENGINEER'S BEST INFORMATE<br>EGARDING EXISTING CONDITIONS AND CURRENT BASE BUILDING DRAWINGS. AVAILABILI<br>DEQUATE CIRCUIT BREAKER SPACE FOR NEW WORK IN EXISTING PANELBOARDS SHALL I<br>ERIFIED BY THE CONTRACTOR AFTER DEMOLITION OF THE EXISTING SPACE. IF ADEQUATE                                                                          |
| 25. | SUPPORTED FROM THE STRUCTURE ABOVE WITH RODS OF SUFFICIENT SIZE TO PREVENT<br>VERTICAL MOVEMENT OF THE OUTLET BOX. BRIDGES ALONE ARE NOT ADEQUATE UNLESS<br>SPECIFICALLY APPROVED. CEILING MOUNTED EXIT LIGHT FIXTURES SHALL BE INSTALLED LEVEL.<br>DO NOT SUPPORT DEVICES FROM ACCOUSTICAL CEILING TILE.                                                                                                                                                                                                            | E1<br>64. Al             | PACE IS NOT AVAILABLE FOR NEW CIRCUIT BREAKERS THE CONTRACTOR SHALL NOTIFY<br>NGINEER FOR RESOLUTION.<br>BANDONED POWER WIRING, RACEWAYS AND CONDUCTORS, SHALL BE REMOVED BACK T<br>HEIR SOURCE. THE ACCESSIBLE PORTIONS OF ABANDONED CABLES (VOICE, DATA, VIDE)                                                                                                                                      |
| 26. | PROVIDE ADHESIVE BACKED RECEPTACLE AND SWITCH/DIMMER/OCCUPANCY SENSOR DEVICE<br>PLATE LABELS IDENTIFYING THE PANEL AND CIRCUIT FEEDING THE DEVICE. LABELS SHALL<br>INDICATE PANEL AND CIRCUIT NUMBER.                                                                                                                                                                                                                                                                                                                | Al<br>65. TI             | LARM, ETC.) SHALL BE REMOVED.<br>RACE OUT EXISTING WIRING THAT IS TO BE RELOCATED, OR REMOVED AND PERFORM THE                                                                                                                                                                                                                                                                                         |
| 27. | FINAL TYPED PANELBOARD DIRECTORIES INSTALLED IN THE PANELBOARD DOOR POCKET SHALL<br>INCLUDE FINAL ACTUAL ROOM NAMES AND NUMBERS IN ADDITION TO THE GENERAL<br>DESCRIPTION SHOWN ON THE PANEL SCHEDULES ON THE DRAWINGS.                                                                                                                                                                                                                                                                                              | 5`<br>66. IN             | YSTEM.<br>SOFAR AS POSSIBLE, MATCH EXISTING EXPOSED DEVICES IN FINISHED AREAS IN TYPE, (<br>ND FINISH.                                                                                                                                                                                                                                                                                                |
| 30. | CONDUCTOR SIZING IS BASED ON 75 DEGREE C. COPPER NEC RATINGS, UNLESS NOTED<br>OTHERWISE. THE CONTRACTOR SHALL VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR<br>CONDUIT FEEDING ANY EQUIPMENT, THE ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75<br>DEGREE C. WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C.<br>CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY FOR                                                                                                | TI<br>TI<br>BI           | HE EXISTING ELECTRICAL SYSTEMS DEPICTED ON THESE DRAWINGS HAVE BEEN COMPIL<br>HE ENGINEER FROM THE TENANT'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION<br>HE EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND<br>ELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL<br>MENSIONS, POINTS OF ACCESS AND FIELD CONDITIONS AFFECTING HIS WORK.            |
| 31. | EVALUATION/CORRECTION.<br>DO NOT PULL CONDUCTORS UNTIL THE CONDUIT SYSTEM IS COMPLETE IN EVERY DETAIL. IN THE<br>CASE OF CONCEALED WORK, "COMPLETE" MEANS UNTIL ALL ROUGH PLASTERING OR MASONRY                                                                                                                                                                                                                                                                                                                      | S                        | HE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING ELEC<br>YSTEMS AND THE EXISTING BUILDING. THE SUBMISSION OF THE PROPOSAL BY THE<br>ONTRACTOR SHALL BE CONSIDERED EVIDENCE THAT HE OR HIS REPRESENTATIVE HAS \                                                                                                                                                                |
| 32. | HAS BEEN COMPLETED.<br>WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, BRANCH CIRCUITS SHALL CONSIST OF #12 OR<br>#10 AWG MINIMUM PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS IN 3/4" MINIMUM                                                                                                                                                                                                                                                                                                                            | W<br>HI                  | HE SITE AND BUILDINGS AND NOTED THE LOCATION AND CONDITIONS UNDER WHICH THE<br>ILL BE PERFORMED AND THAT HE TAKES FULL RESPONSIBILITY OF ALL FACTORS GOVER<br>IS WORK. NO EXTRAS WILL BE CONSIDERED BECAUSE OF ADDITIONAL WORK NECESSITA<br>KISTING JOB CONDITIONS THAT ARE NOT INDICATED ON THE DRAWINGS.                                                                                            |
| 33. | RACEWAY.<br>USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS WITH A TOTAL<br>INSTALLED LENGTH GREATER THAN 75 FEET AND/OR BRANCH CIRCUIT HOMERUNS LONGER THAN                                                                                                                                                                                                                                                                                                                                          | IN                       | OME EXISTING RECEPTACLE, LIGHTING OR OTHER LOADS MAY BE SERVED BY CIRCUITS<br>DICATED TO BE REMOVED. IF SUCH CONDITIONS ARE DISCOVERED, REQUEST THE<br>RCHITECT/ENGINEER PROVIDE NEW CIRCUIT NUMBER FOR THE LOAD. DO NOT                                                                                                                                                                              |
|     | 50 FEET, I.E.; #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE BRANCH CIRCUITS OVER 75<br>FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND HOMERUNS OVER 50 FEET. IF<br>277 VOLT CIRCUITS ARE SHOWN, USE #10 AWG CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH<br>CIRCUITS WITH TOTAL INSTALLED LENGTH GREATER THAN 200 FEET AND/OR BRANCH CIRCUIT<br>HOMERUNS LONGER THAN 125 FEET, I.E.; #12 AWG INCREASED TO #10 AWG FOR RECEPTACLE<br>BRANCH CIRCUITS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SECMENT) AND | 70. Al<br>Al<br>Ex       | DISCRIMINATELY CONNECT TO THE NEAREST CIRCUIT.<br>LL UNUSED OUTLET BOXES SHALL BE REMOVED OR, WITH SPECIFIC APPROVAL OF THE<br>RCHITECT/ENGINEER, SHALL BE BLANKED WITH STAINLESS STEEL PLATES. ALL OPENING<br>KISTING WALLS AND CEILINGS MADE BY THIS CONTRACTOR SHALL BE REPAIRED TO AN E                                                                                                           |
| 34. | BRANCH CIRCUITS OVER 75 FEET TOTAL LENGTH (INCLUDING THE HOMERUN SEGMENT) AND<br>HOMERUNS OVER 50 FEET.<br>KEEP CONDUCTOR SPLICES TO A MINIMUM. INSTALL SPLICES AND TAPES THAT POSSESS                                                                                                                                                                                                                                                                                                                               | 71. PF<br>E0             | NISH AS ADJACENT SURFACES.<br>ROVIDE ALL ELECTRICAL RELOCATION WORK ASSOCIATED WITH THE RELOCATING OF<br>QUIPMENT FOR THE EXISTING FACILITIES, INCLUDING DISCONNECTING ALL EXISTING WIR                                                                                                                                                                                                               |
|     | EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN CONDUCTORS<br>BEING SPLICED. USE SPLICE AND TAP CONNECTORS COMPATIBLE WITH CONDUCTOR MATERIAL.<br>INSTALL CONDUCTORS AT EACH OUTLET WITH AT LEAST 6 [12] INCHES OF SLACK. CONNECT<br>OUTLETS AND COMPONENTS TO WIRING AND TO GROUND AS INDICATED AND INSTRUCTED BY<br>THE MANUFACTURER.                                                                                                                                                         | 72. TH<br>AS<br>Pf       | ND CONDUITS AND PROVIDING NEW WIRING AND CONDUITS TO THE RELOCATED EQUIPM<br>HE EXISTING FACILITIES WILL REMAIN OCCUPIED BY THE STAFF THROUGHOUT THE PROJ<br>S SUCH, WORK WILL REQUIRE SPECIAL EFFORT BY THIS CONTRACTOR TO ALLOW THE W<br>ROCEED IN A TIMELY MANNER. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH TH<br>ENANT AND GENERAL CONTRACTOR SO AS TO MINIMIZE DISRUPTION OF THE TENANT'S U |
| 35. | DO NOT SPLICE BRANCH CIRCUIT HOMERUNS WITHOUT THE PERMISSION OF THE ARCHITECT/ENGINEER. HOMERUNS SHALL BE CONTINUOUS FROM THE LAST OUTLET BOX TO THE SERVING PANELBOARD.                                                                                                                                                                                                                                                                                                                                             | TI<br>SI                 | ENANT AND GENERAL CONTRACTOR SO AS TO MINIMIZE DISRUPTION OF THE TENANT'S UN<br>THE FACILITIES AND MAINTAIN THE CONSTRUCTION SEQUENCE OF THE GENERAL CONTRA<br>EE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS<br>ONCERNING PHASING AND SEQUENCE OF WORK.                                                                                                                    |
|     | DO NOT COMBINE BRANCH CIRCUIT HOMERUNS UNLESS SPECIFICALLY INDICATED ON THE<br>DRAWINGS.                                                                                                                                                                                                                                                                                                                                                                                                                             | 74. Al                   | AFETY: COMPLY WITH OSHA AND NEC ARC FLASH PROTECTION REQUIREMENTS.                                                                                                                                                                                                                                                                                                                                    |
| 38. | DO NOT CHANGE CIRCUITING SHOWN WITHOUT PERMISSION OF THE ARCHITECT/ENGINEER.<br>TROUGH TAPS SHALL BE AT SWITCH AMPACITY, UNLESS NOTED OTHERWISE.                                                                                                                                                                                                                                                                                                                                                                     | RI                       | EQUIREMENTS.                                                                                                                                                                                                                                                                                                                                                                                          |
| 39. | INSTALL WIRING DEVICES AT HEIGHTS AS SHOWN ON THE DRAWINGS. ALSO COORDINATE<br>MOUNTING HEIGHTS WITH THE ARCHITECTURAL DRAWINGS AND CASEWORK DETAILS. IF<br>CONFLICTING, ARCHITECTURAL DRAWINGS AND DETAILS SHALL GOVERN.                                                                                                                                                                                                                                                                                            |                          |                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4                        |                                                                                                                                                                                                                                                                                                                                                                                                       |

#### OUND FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL IN ACCORDANCE C INCLUDING ALL ELECTRIC WATER COOLERS. EXTERIOR RECEPTACLES AND S IN AREAS SUBJECT TO POSSIBLE WET CONDITIONS. ALL RECEPTACLES /ITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED. ALL RECEPTACLES IN NTIAL KITCHENS SHALL BE GFI PROTECTED.

TTERY PACK TYPE EMERGENCY AND EXIT LIGHTING TO THE UNSWITCHED LIGHTING VING THE SPACE LIGHTED BY THE EMERGENCY AND EXIT FIXTURES. THESE IS ARE INTENTIONALLY NOT SHOWN TO MAINTAIN DRAWING FOR CLARITY. LIGHTING FIXTURE LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING

#### DRAWINGS INDICATE A LIGHTING FIXTURE IS TO BE PROVIDED WITH SPECIAL WITCHING (DIMMING, EMERGENCY BATTERY BALLAST, MULTI-LEVEL, ETC), THE R SHALL PROVIDE THESE FIXTURES WITH THE APPROPRIATE BALLASTING TO ATE THE SPECIAL FEATURE. THE CONTRACTOR SHALL PROVIDE THE FIXTURES AS I THE LIGHTING FIXTURE SCHEDULE WITH MODIFICATIONS AS REQUIRED BY

LOCATIONS OF MECHANICAL, DATA AND TELEPHONE AND AUDIO/VISUAL AND OF TENANT-PROVIDED EQUIPMENT WITH THE RESPECTIVE CONTRACTORS AND ID THE TENANT BEFORE ROUGH-IN. ADJUST LIGHTING FIXTURES, RECEPTACLES AND EQUIPMENT TO ACCOMMODATE THIS EQUIPMENT. ADVISE THE ENGINEER OF CONFLICTS BEFORE ROUGH-IN

IMENCING WORK OR ORDERING MATERIALS, THE CONTRACTOR SHALL COORDINATE TRADES AND VERIFY THE NAMEPLATE RATINGS OF ALL EQUIPMENT (MOTORS. DMPRESSORS, ETC.) AND ADJUST THE RATINGS OF THE ELECTRICAL EQUIPMENT FUSES, CIRCUIT BREAKERS, FEEDERS, ETC.) AS APPROPRIATE TO SERVE THIS

QUIPMENT ONLY AFTER OBTAINING PERMISSION FROM THE CONTRACTOR PROVIDING

ICAL CONTRACTOR SHALL COORDINATE ALL EQUIPMENT TERMINATIONS, PLUGS AND VITH VENDOR EQUIPMENT AND VERIFY ALL DEVICE LOCATIONS FOR SPECIALITY NITH CASEWORK PRIOR TO ROUGH-IN.

AND PLACEMENT OF ELECTRICAL DISTRIBUTION EQUIPMENT IN ELECTRICAL AND EQUIPMENT ROOMS IS BASED ON PUBLISHED EQUIPMENT SIZES AND SHALL BE S CLOSELY AS POSSIBLE. DEVIATIONS FROM CONFIGURATIONS SHOWN IS THE ITY OF THE CONTRACTOR. PROVIDE NATIONAL ELECTRIC CODE REQUIRED S FOR ALL ELECTRICAL EQUIPMENT, PANELBOARDS, TRANSFORMERS, SAFETY WITCHBOARDS, ETC. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER VISE THE ARCHITECT/ENGINEER OF CONFLICTS BEFORE ROUGH-IN.

NICATIONS AND DATA CABLES WILL BE PROVIDED AND INSTALLED BY THE OWNER. WIRES OR ROPES OF ADEQUATE TENSILE STRENGTH IN ALL EMPTY CONDUITS. FIRE ALARM SYSTEM MODIFICATIONS WITH THE TENANT AND THE FIRE ALARM

... THE EXISTING SYSTEM SHALL REMAIN OPERATIONAL AT ALL TIMES UNLESS PRIOF NTS HAVE BEEN MADE WITH THE TENANT.

CONTRACTOR IS RESPONSIBLE FOR FIRE ALARM WORK ON THIS PROJECT. THIS T NOT LIMITED TO DE-PROGRAMMING REMOVED DEVICES, PUTTING SYSTEM ON CTING EXISTING DEVICES DURING CONSTRUCTION, ETC. EC SHALL INCLUDE IN BID OR THE FIRE ALARM VENDOR TO PERFORM THIS WORK. THE EC SHALL BE E FOR PAYING FOR ANY FALSE ALARMS CAUSED BY THE CONSTRUCTION FOR THIS

N INFORMATION PACKED WITH LIGHTING FIXTURES, DEVICES AND EQUIPMENT SHALL FOR INCLUSION IN THE OPERATIONS AND MAINTENANCE MANUALS.

L EXISTING POWER, COMMUNICATIONS, DATA, LIFE SAFETY SYSTEMS, FIRE ALARM ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE F THE WORK. NOTIFY THE TENANT AND ARCHITECT/ENGINEER IF SHUTDOWNS ARE RIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED INOT BE TOLERATED BY THE TENANT, PROVIDE TEMPORARY CONNECTIONS AS D MAINTAIN SERVICE.

CT REQUIRES SEVERAL NEW CIRCUITS BE ADDED TO EXISTING PANELBOARDS AND EXISTING CIRCUITS' LOADING WILL CHANGE AS A RESULT OF THIS WORK. THE R SHALL ENDEAVOR TO MAINTAIN PHASE BALANCE ON ALL PANELBOARDS ( THIS WORK. RECONNECT/MODIFY/EXTEND EXISTING CIRCUITING AS REQUIRED TO FE CIRCUIT LOADING AND PHASE BALANCE. COORDINATE CONNECTIONS TO THE CTRICAL DISTRIBUTION SYSTEM WITH THE TENANT AND ARCHITECT/ENGINEER. CURATE, UPDATED, TYPED PANEL SCHEDULES FOR ALL AFFECTED PANELS. NOTE RCUIT CONFIGURATIONS ON AS-BUILT DRAWINGS.

CTOR SHALL PERFORM ALL CUTTING AND PATCHING NECESSARY TO INSTALL ALL AS REQUIRED AND SHALL REESTABLISH ALL FINISHES TO THEIR ORIGINAL VHERE CUTTING AND PATCHING OCCUR. ALL CUTTING AND PATCHING SHALL BE IOROUGHLY WORKMANSHIP MANNER. SAW CUT CONCRETE AND MASONRY PRIOR GOUT SECTIONS. ALL PATCHING MATERIALS AND WORKMANSHIP SHALL BE BY TRADESMEN EXPERIENCED IN THAT WORK. ALL WORK SHALL BE SUBJECT TO AL OF THE ARCHITECT/ENGINEER.

GS ONLY LARGE ENOUGH TO ALLOW EASY INSTALLATION OF THE CONDUIT. ATED, CONNECT NEW LOADS TO EXISTING ABANDONED CIRCUITS SERVING THE SAME

OTE CIRCUITS ON AS-BUILT DRAWINGS. CUITING WHERE SHOWN IS FOR CONVENIENCE PURPOSES ONLY. VERIFICATION OF RING DESTINATION, TERMINATION AND ADDITIONS OF NEW LOADS IS THE

ITY OF THE CONTRACTOR. NTINUITY OF ALL EXISTING CIRCUITS TO REMAIN OR PORTIONS THEREOF AFFECTED

ADDITION OF NEW CIRCUITING IS BASED ON THE ENGINEER'S BEST INFORMATION EXISTING CONDITIONS AND CURRENT BASE BUILDING DRAWINGS. AVAILABILITY OF IRCUIT BREAKER SPACE FOR NEW WORK IN EXISTING PANELBOARDS SHALL BE THE CONTRACTOR AFTER DEMOLITION OF THE EXISTING SPACE. IF ADEQUATE T AVAILABLE FOR NEW CIRCUIT BREAKERS THE CONTRACTOR SHALL NOTIFY THE OR RESOLUTION.

POSSIBLE, MATCH EXISTING EXPOSED DEVICES IN FINISHED AREAS IN TYPE, COLOR ELECTRICAL SYSTEMS DEPICTED ON THESE DRAWINGS HAVE BEEN COMPILED BY ER FROM THE TENANT'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF

CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL , POINTS OF ACCESS AND FIELD CONDITIONS AFFECTING HIS WORK.

CTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING ELECTRICAL D THE EXISTING BUILDING. THE SUBMISSION OF THE PROPOSAL BY THE R SHALL BE CONSIDERED EVIDENCE THAT HE OR HIS REPRESENTATIVE HAS VISITED ) BUILDINGS AND NOTED THE LOCATION AND CONDITIONS UNDER WHICH THE WORK FORMED AND THAT HE TAKES FULL RESPONSIBILITY OF ALL FACTORS GOVERNING IO EXTRAS WILL BE CONSIDERED BECAUSE OF ADDITIONAL WORK NECESSITATED BY B CONDITIONS THAT ARE NOT INDICATED ON THE DRAWINGS.

OUTLET BOXES SHALL BE REMOVED OR, WITH SPECIFIC APPROVAL OF THE NGINEER, SHALL BE BLANKED WITH STAINLESS STEEL PLATES. ALL OPENINGS IN LLS AND CEILINGS MADE BY THIS CONTRACTOR SHALL BE REPAIRED TO AN EQUAL JACENT SURFACES.

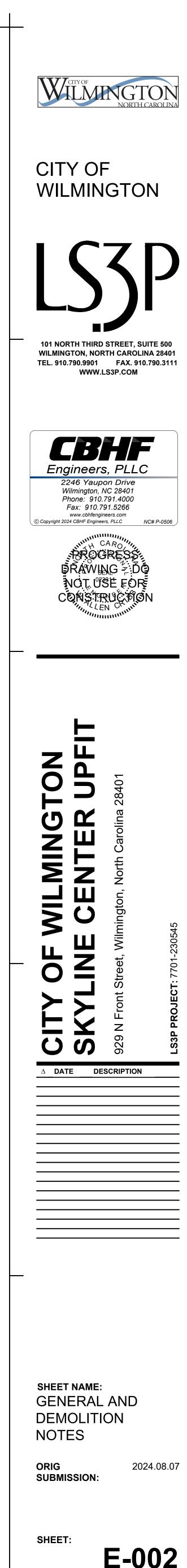
ELECTRICAL RELOCATION WORK ASSOCIATED WITH THE RELOCATING OF FOR THE EXISTING FACILITIES, INCLUDING DISCONNECTING ALL EXISTING WIRING TS AND PROVIDING NEW WIRING AND CONDUITS TO THE RELOCATED EQUIPMENT.

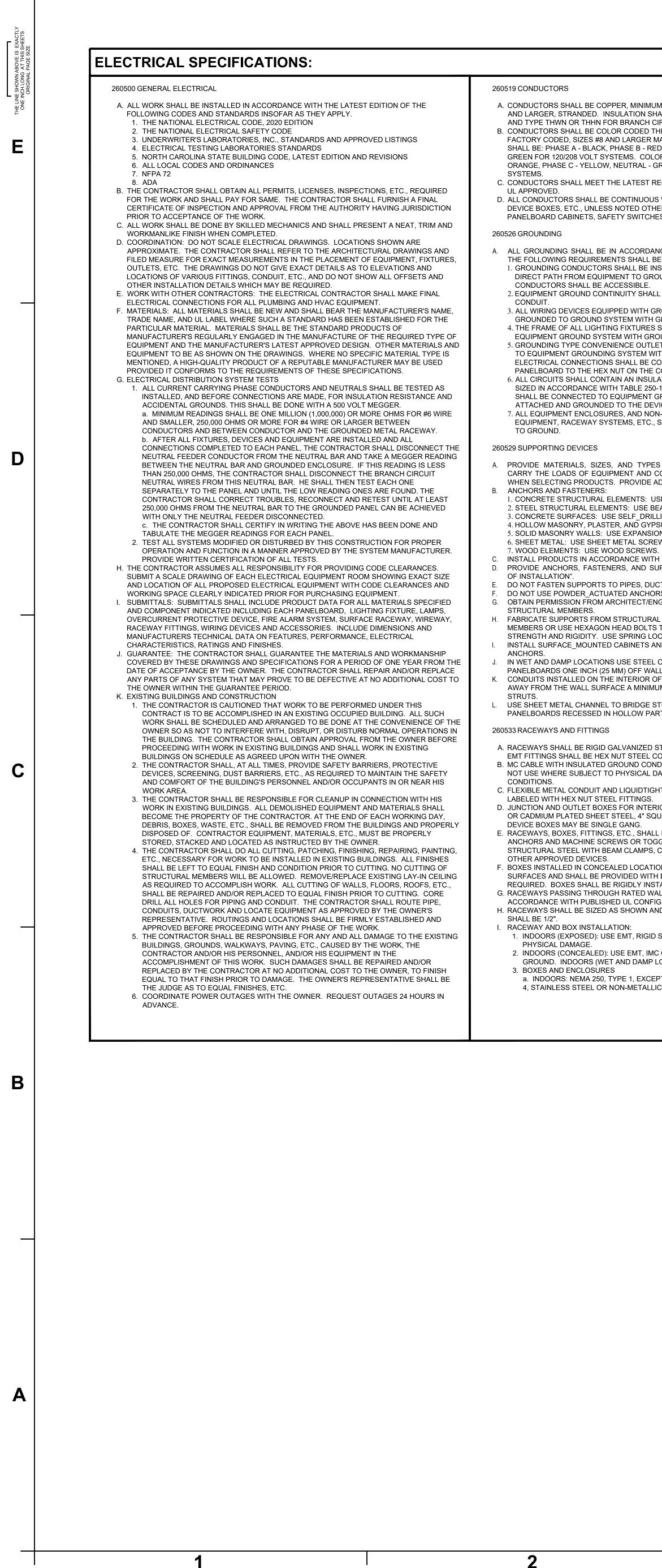
FACILITIES WILL REMAIN OCCUPIED BY THE STAFF THROUGHOUT THE PROJECT. ORK WILL REQUIRE SPECIAL EFFORT BY THIS CONTRACTOR TO ALLOW THE WORK TO A TIMELY MANNER. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR SO AS TO MINIMIZE DISRUPTION OF THE TENANT'S USE OF ES AND MAINTAIN THE CONSTRUCTION SEQUENCE OF THE GENERAL CONTRACTOR. CTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INSTRUCTIONS PHASING AND SEQUENCE OF WORK.

## **ELECTRICAL SELECTIVE DEMOLITION NOTES:**

- SELECTIVE ELECTRICAL DEMOLITION SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AS DESCRIBED HEREIN AND AS SHOWN ON THE CONTRACT DRAWINGS. GROSS DEMOLITION WILL BE PROVIDED BY THE GENERAL CONTRACTOR. IDENTIFY ACTIVE UTILITIES, AND AT THE APPROPRIATE TIME, DISCONNECT AND CAP OFF SUCH UTILITIES AND PROVIDE EXPERIENCED PERSONNEL ON SITE DURING GENERAL CONTRACTOR DEMOLITION OPERATIONS TO PERFORM SUCH OPERATIONS AND RESOLVE ISSUES. REMOVE MATERIALS NOTED FOR SALVAGE AND REUSE. IDENTIFY AND MARK WIRING AND DEVICES TO REMAIN FOR THE GENERAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR DEMOLITION REQUIREMENTS AND CARRY OUT HIS WORK IN A COMPATIBLE AND COMPLEMENTARY MANNER. REMOVE ALL WIRING DEVICES, BOXES, FIXTURES, EXPOSED ABANDONED RACEWAYS, HANGARS, ETC., MADE OBSOLETE BY THESE ALTERATIONS AND AS SHOWN ON THE ELECTRICAL DRAWINGS. ALL ITEMS TO BE REMOVED OR MODIFIED MAY NOT BE SHOWN, HOWEVER, THIS CONTRACTOR SHALL REMOVE ANY ELECTRICAL WORK AS REQUIRED BY THE CONSTRUCTION OR AS DIRECTED BY THE OWNER OR ARCHITECT/ENGINEER. SURVEY THE AFFECTED AREAS BEFORE SUBMITTING A BID AS ALL EXISTING CONDITIONS CANNOT BE COMPLETELY DEPICTED ON THE DRAWINGS AND SOME UNUSUAL CONDITIONS MAY EXIST.
- REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION.
- ALL EXISTING ELECTRICAL EQUIPMENT AND DEVICES SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED.
- VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON DRAWINGS. VERIFY THAT ABANDONED WIRING AND EQUIPMENT SERVE ONLY ABANDONED FACILITIES.
- DISCONNECT AND/OR DE-ENERGIZE ELECTRICAL SYSTEMS IN WALLS AND CEILINGS SCHEDULED FOR REMOVAL.
- PROVIDE TEMPORARY AND/OR PERMANENT WIRING AND CONNECTIONS AS SHOWN AND/OR AS REQUIRED BY CONDITIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, AND WHEN SUCH WORK IS SPECIFICALLY APPROVED BY THE OWNER AND PERMITTED BY REGULATORY AUTHORITIES, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
- EXISTING ELECTRICAL SERVICE: COORDINATE POWER OUTAGES WITH THE OWNER. MAINTAIN EXISTING SYSTEMS IN SERVICE. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM THE OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
- . CONTINUOUS SERVICE IS REQUIRED ON ALL CIRCUITS AND OUTLETS AFFECTED BY THESE CHANGES, EXCEPT WHERE THE OWNER WILL PERMIT AN OUTAGE FOR A SPECIFIC TIME. OBTAIN OWNER'S CONSENT BEFORE REMOVING ANY CIRCUIT FROM CONTINUOUS SERVICE.
- PROTECT ALL EXISTING TELEPHONE, DATA, LIFE SAFETY SYSTEMS, FIRE ALARM, SECURITY, ACCESS CONTROL AND PUBLIC ADDRESS SYSTEMS AND MAINTAIN THEM IN OPERATION THROUGHOUT THE PROGRESS OF THE WORK. NOTIFY THE OWNER AND ARCHITECT/ENGINEER IN WRITING IF SHUTDOWNS ARE REQUIRED PRIOR TO ANY OUTAGE OF SERVICE. WHERE THE DURATION OF A PROPOSED OUTAGE CANNOT BE TOLERATED BY THE OWNER, PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN SERVICE.
- WHERE ELECTRICAL SYSTEMS PASS THROUGH THE DEMOLITION AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, THEY SHALL BE PROTECTED FROM DAMAGE AND REMAIN OR BE SUITABLY RELOCATED UTILIZING MATCHING SIZE AND TYPE MATERIALS AND THE SYSTEM RESTORED TO NORMAL OPERATION. ADVISE THE ARCHITECT/ENGINEER IMMEDIATELY IF SUCH CONDITIONS ARE UNCOVERED BEFORE PROCEEDING WITH ADDITIONAL WORK.
- 3. EXISTING FIRE ALARM SYSTEM: COORDINATE WORK WITH THE FIRE ALARM CONTRACTOR AND MAINTAIN THE EXISTING SYSTEM IN SERVICE UNTIL THE NEW SYSTEM IS ACCEPTED. DISABLE SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. NOTIFY THE OWNER AND LOCAL FIRE SERVICE AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. LIMIT OUTAGES TO NORMAL BUSINESS HOURS ONLY AND MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA.
- MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE. MODIFY INSTALLATION OR PROVIDE ACCESS PANEL AS APPROPRIATE.
- 5. ENDS OF ALL CONDUITS TO REMAIN SHALL BE TIGHTLY PLUGGED TO EXCLUDE DUST AND MOISTURE WHILE THE BUILDING IS UNDER RENOVATION.
- . PROTECT EXISTING CIRCUITS TO REMAIN AND EXTEND AS REQUIRED UTILIZING MATCHING CONDUCTORS AND CONDUIT SIZE AND TYPE.
- SECURE ALL CIRCUITS, RACEWAYS, CABLE AND CONDUCTORS THAT, AS A RESULT FROM THIS CONSTRUCTION, ARE ABANDONED OR UNUSED, REMOVE UNUSED EXPOSED CONDUIT AND WIRING BACK TO POINT OF CONCEALMENT INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILINGS. REMOVE UNUSED WIRING IN CONCEALED CONDUITS BACK TO SOURCE OR NEAREST POINT OF USAGE. BLANK ABANDONED KNOCKOUTS IN REMAINING BOXES. INSTALL BLANK PLATES FOR ALL UNUSED OUTLETS THAT WILL REMAIN AS A RESULT OF THIS CONSTRUCTION. ALL SUCH WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES.
- TRACE OUT EXISTING WIRING THAT IS TO BE RELOCATED OR REMOVED AND PERFORM THE RELOCATION OR REMOVAL WORK AS REQUIRED FOR A COMPLETE OPERATING AND SAFE SYSTEM.
- 9. RECONNECT EXISTING CIRCUITS SEPARATED AS A RESULT OF THIS CONSTRUCTION.
- 20. EXTEND EXISTING SWITCH LEGS TO NEW SWITCH LOCATIONS AS SHOWN AND/OR REQUIRED. . DELIVER ALL REMOVED AND SALVAGED, WIRING DEVICES, ETC., TO THE OWNER, OR AT THE OWNER'S OPTION, DISPOSE OF PROPERLY OFF SITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. FEES ASSOCIATED WITH DISPOSAL SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID.
- . PROTECT EXISTING CIRCUITS FEEDING LIGHTING FIXTURES FOR EXTENSION TO NEW AND RELOCATED LIGHTING FIXTURES.
- 3. DO NOT DISTURB EXISTING DATA, TELEPHONE, SECURITY/INTRUSION AND ENERGY MANAGEMENT SYSTEMS, DEVICES OR CABLES UNLESS SPECIFICALLY NOTED OTHERWISE. THE OWNER WILL RELOCATE THESE AS NECESSARY.
- ALL FLUSH MOUNTED WIRING DEVICES SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED. IT IS THE INTENTION OF THE THIS CONTRACT TO REMOVE ALL FLUSH MOUNTED DEVICES THAT CONFLICT WITH NEW CONSTRUCTION AND SECURE THEIR ASSOCIATED BRANCH CIRCUITS.
- REMOVE ALL FLUSH MOUNTED DEVICES THAT CONFLICT WITH NEW CONSTRUCTION AND SECURE THEIR ASSOCIATED BRANCH CIRCUITS.
- 3. COORDINATE WITH THE OTHER TRADES, PRIOR TO BID, AND INCLUDE IN THE BASE BID THE ELECTRICAL DISCONNECTION OF ANY EQUIPMENT BEING DEMOLISHED, EVEN IF NOT EXPLICITLY SHOWN. UNLESS NOTED OTHERWISE, REMOVE ALL DEMOLISHED EQUIPMENT FROM THE PROPERTY AND IDENTIFIED IN THE ELECTRICAL DRAWINGS.
- THESE DRAWINGS ARE COMPILED BY THE ARCHITECT/ENGINEER FROM THE OWNER'S RECORD DRAWINGS AND LIMITED FIELD VERIFICATION OF EXISTING CONDITIONS FOR THE PURPOSE OF INDICATING THE WORK REQUIRED AND ARE BELIEVED TO BE CORRECT. NOTWITHSTANDING, THE CONTRACTOR SHALL VERIFY ALL CIRCUITS, WIRING, CONDUIT, DIMENSIONS, POINTS OF ACCESS AND ALL FIELD CONDITIONS AFFECTING HIS WORK. BEGINNING OF DEMOLITION MEANS THE CONTRACTOR ACCEPTS EXISTING CONDITIONS.

28. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.





| ER, MINIMUM SIZE #12. SIZES #10 AND #12 SHALL BE SOLID, #8<br>JATON SHALL BE TYPE THW. THWN OR THHN FOR FEDERS,<br>BRANCH CIRCUITS.<br>3 CODED THROUGHOUT, SIZES #10 AND #12 SHALL BE<br>) LARGER MAY BE COLOR TAPED ON THE JOB. COLOR CODING<br>ARSE B. RED, PHASE C. BLUE, NEUTRAL - WHITE, GROUND -<br>EMS, COLOR CODING SHALL BE: PHASE A - BROWN, PHASE B -<br>EUTRAL - GREY, GROUND - GREEN FOR 277/480 VOLT<br>E LATEST REQUIREMENTS OF NEMA AND IPCEA AND SHALL BE<br>DNTINUOUS WITHOUT SPLICE BETWEEN JUNCTION, OUTLET,<br>IOTED OTHERWISE. NO SPLICING WILL BE PERMITTED IN<br>Y SWITCHES, ETC.<br>ACCORDANCE WITH ARTICLE 250 OF THE NEC. IN ADDITION,<br>IS SHALL BE MET:<br>HALL BE INSTALLED AS TO PERMIT THE SHORTEST AND MOST<br>ENT TO GROUND. ALL GROUND CONNECTIONS TO GROUND<br>ESSIBLE.<br>UITY SHALL BE MAINTAINED THROUGH FLEXIBLE METAL<br>ED WITH GROUNDING CONNECTION SHALL BE SOLIDLY<br>THE WITH GROUNDING CONNECTION SHALL BE SOLIDLY<br>THE WITH GROUNDING CONNECTIONS SHALL BE SOLIDLY<br>THE WITH GROUNDING CONNECTIONS SHALL BE SOLIDLY<br>FIXTURES SHALL BE SECURELY GROUNDED TO THE<br>MITH GROUNDING CONNECTIONS SHALL BE SOLIDLY<br>FIXTURES SHALL BE SECURELY GROUNDED TO THE<br>MITH GROUNDING CONNECTIONS<br>NCE OUTLETS AND SWITCHES SHALL BE SOLIDLY<br>FIXTURES SHALL BE SECURELY GROUNDED TO THE<br>MITH GROUNDING CONNECTORS.<br>NCE OUTLETS OF THE NEC.<br>MITH SHOUNDS FROM EQUIPMENT GROUND BUS IN<br>IT ON THE CONVENIENCE OUTLET OR SWITCH.<br>ANI INSULATED. GREEN, COPPER GROUNDING CONDUCTORS.<br>HALL BE CONTINUOUS FROM EQUIPMENT GROUND BUS IN<br>IT ON THE CONVENIENCE OUTLET OR SWITCH.<br>AND TYPES OF ANCHORS. FASTENERS AND SUPPORTS TO<br>THET AND CONDUIT. CONSIDER WEIGHT OF WIRE IN CONDUCT<br>IOT THE CONVENIENCE OUTLET OR SWITCH.<br>AND TYPES OF ANCHORS. FASTENERS AND SUPPORTS TO<br>THAT AND CONDUIT. CONSIDER WEIGHT OF WIRE IN CONDUIT.<br>ENT, SUE EXPANSION ANCHORS.<br>3. AND SUPPORTS IN ACCORDANCE WITH NECA "STANDARD<br>PIPES, DUCTS, MECHANICAL EQUIPMENT, AND CONDUIT.<br>EXPANSION ANCHORS AND EXPANSION ANCHORS.<br>3. AND SUPPORTS IN ACCORDANCE WITH MEE IN CONDUIT.<br>EDANDRY SOLAD BADY ANT AND ADECONDUIT.<br>SOLODITS OF RESERN | <section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header> | COMPATIBLE WITH ALL<br>1. WALL SWITCH LINE<br>WALL MOUNTED OC<br>SHALL RECESS INTO<br>PLATE OPENING. SW<br>FOUR-WAY TOGGLE<br>OTHER LOCATION S<br>DEGREE FIELD OF V<br>AC, MINIMUM LOAD<br>AT120 OR AT277 OR<br>2. CEILING MOUNTED O<br>LINE VOLTAGE POW<br>SHALL OPERATE ON<br>SHALL OPERATE ON<br>SHALL DE CONNECT<br>GANG OUTLET BOX.<br>ATD500C FOR SPAC.<br>WATTSTOPPER. PO<br>COMPATIBLE WITH A<br>FLUORESCENT BALL<br>CAPACITY TO POWE<br>MAY BE PARALLELE!<br>ADDITIONAL RELAYS<br>ONE CIRCUIT BEING<br>WATTSTOPPER.<br>262816 SAFETY SWITCHES<br>A. NEMA KS 1, TYPE HD V<br>PREVENT OPENING FF<br>INTERRUPTER KNIFES<br>MAKE-QUICK BREAK<br>MERANDLES WHOS<br>FUSE CLIPS SHALL BE<br>B. SAFETY SWITCHES SH<br>SQUARE D.<br>262817 CIRCUIT BREAKERS IN<br>MOLDED CASE, UL LIS<br>NECESSARY MOUNTIN<br>CIRCUIT BREAKERS. N<br>BE RATED CONSISTEN<br>ACCESSORIES SHALL<br>FIELD INSTALLABLE. FI<br>GEAR.<br>B. CIRCUIT BREAKERS SH<br>SQUARE D.<br>265100 LIGHTING FIX<br>A. LIGHTING FIXTURE TYI<br>SCHEDULE AS INDICAT<br>GUIDE TO THE DESIGN<br>CONTRACT DRAWING<br>SHALL PROVIDE COMP<br>ACCESSORIES SHALL<br>FIELD INSTALLABLE. FI<br>GEAR.<br>B. LED SOURCES SHALL<br>IFED INSTALLABLE. FI<br>GEAR.<br>B. LED SOURCES SHALL<br>IED TI THE COLOR TIX<br>AS REQUIRED BY REG<br>B. LED SOURCES SHALL<br>IED TI THE COLOR MINIMU<br>OUTPUT AT 50,000 HOU<br>BE IN ACCORDANCE W<br>SHALL PROVIDE COMP<br>ACCESSORIES OR ADI<br>AS REQUIRED BY REG<br>B. LED SOURCES SHALL<br>IED TI THE COLOR. MINIMU<br>OUTPUT AT 50,000 HOU<br>BE IN ACCORDANCE W<br>SHALL PROVIDE A MIN<br>ACCEPTANCE AGAINS<br>OR COLOR THEMPERTH<br>SCOLOR SONSITENCEY<br>COLAGE MATCHING I<br>SHALL PROVIDE A MIN<br>ACCEPTANCE AGAINS<br>OR COLOR THEPES TH<br>AND A MINIMUM OVER<br>D. LED RUFERS: PROVID<br>COLTAGE MATCHING I<br>SHALL PROVIDE A MIN<br>ACCEPTANCE AGAINS<br>OR COLOR TEMPERTH<br>SCOLOR SONSITENCEY<br>COLTAGE MATCHING I<br>SHALL PROVIDE A MIN<br>ACCEPTANCE ONE PRISMS<br>MINIMUM PRISM DEPTI<br>AND A MINIMUM OVER<br>1. POWER FACTOR 2<br>2. EFLICIENCY CRES<br>SUBLIES AND LUW<br>C. LED RIVERS: PROVID<br>COLTAGE MATCHING IS<br>SHALL PROVIDE A MIN<br>ACCEPTANCE ONE PRISMS<br>MINIMUM PRISM DEPTI<br>AND A MINIMUM OVER<br>1. POWER FACTOR 2<br>1. FORMER CONF FILE<br>COL AND COLOR IN WINC<br>ACCEPTANCE OF THE |
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| ND DAMP LOCATIONS): USE RIGID STEEL.<br>PE 1, EXCEPT IN DAMP AND WET LOCATIONS: NEMA 250, TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ACTIVITY LEVEL IN THE SPACE. ALL SWITCHES SHALL BE APPROVED BY A THIRD-PARTY<br>AGENCY, APPROVED FOR THE VOLTAGE AND CURRENT INDICATED. SENSORS SHALL BE                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### MPATIBLE WITH ALL LOAD TYPES. WALL SWITCH LINE VOLTAGE SENSORS FOR SMALL AREAS: LINE VOLTAGE, SINGLE GANG, WALL MOUNTED OCCUPANCY SENSOR SWITCH WITH ONE OVERRIDE SWITCH. SENSOR SHALL RECESS INTO SINGLE GANG SWITCH BOX AND FIT A STANDARD GFI RECEPTACLE PLATE OPENING. SWITCHES SHALL BE COMPATIBLE WITH STANDARD THREE AND FOUR-WAY TOGGLE SWITCHES. PROVIDE HARD LENS SWITCHES IN STORAGE ROOMS AND OTHER LOCATION SUBJECT TO ABUSE. ADJUSTABLE TIME DELAY OF 20 MINUTES, 180 DEGREE FIELD OF VIEW, MINIMUM COVERAGE AREA OF 900 SF. VOLTAGE: 120-277 VOLTS AC. MINIMUM LOAD RATING 800 WATTS AT 120 VAC, 1200 WATTS AT 277 VAC. HUBBELL AT120 OR AT277 OR EQUAL BY SENSOR SWITCH OR WATTSTOPPER. CEILING MOUNTED LOW VOLTAGE SENSORS FOR LARGE AREAS: LOW VOLTAGE, RECESS CEILING MOUNTED OCCUPANCY SENSOR SWITCH SHALL OPERATE IN CONJUNCTION WITH A

LINE VOLTAGE POWER PACK TO CONTROL THE CONNECTED LIGHTING LOADS. SENSORS SHALL OPERATE ON A CLASS 2, THREE-CONDUCTOR CABLE SYSTEM. MULTIPLE SENSORS SHALL BE CONNECTABLE TO A SINGLE POWER PACK. SENSOR SHALL RECESS INTO A TWO SANG OUTLET BOX. ADJUSTABLE TIME DELAY OF 1 - 15 MINUTES. HUBBELL ATD1000C OR ATD500C FOR SPACES LESS THAN 500 SQUARE FEET, OR EQUAL BY SENSOR SWITCH OR WATTSTOPPER. POWER PACKS SHALL BE RATED 20A AT 120-277 VOLTS AND SHALL BE COMPATIBLE WITH ALL LOAD TYPES, INCLUDING ELECTRONIC AND COMPACT FLUORESCENT BALLASTS, INCANDESCENT OR FLUORESCENT. THEY SHALL HAVE THE CAPACITY TO POWER ADDITIONAL REMOTE HEADS OR ADDITIONAL RELAYS. POWER PACKS MAY BE PARALLELED TO ACCOMMODATE EXTRA LOAD OR MORE THAN THREE HEADS OR ADDITIONAL RELAYS. ADDITIONAL RELAY SHALL BE USED WHERE THERE IS MORE THAN

ONE CIRCUIT BEING CONTROLLED OR WHERE THERE IS A NEED TO CONTROL MULTIPLE VOLTAGES. HUBBELL CUL20A -(120V) OR HUBBELL CU277A-(277V) (ADDITIONAL RELAY FOR MULTIPLE CIRCUIT APPLICATIONS HUBBELL AAR), OR EQUAL BY SENSOR SWITCH OR

EMA KS 1, TYPE HD WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED (DEFEATABLE) TO EVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION, ENCLOSED LOAD ERRUPTER KNIFE SWITCH. MECHANISMS SHALL BE NON-TEASIBLE, POSITIVE, QUICK KE-QUICK BREAK TYPE. HANDLE LOCKABLE IN ON OR OFF POSITION. SWITCHES SHALL AVE HANDLES WHOSE POSITIONS ARE EASILY RECOGNIZABLE IN THE ON OR OFF POSITION. JSE CLIPS SHALL BE DESIGNED TO ACCOMMODATE NEMA FU1, CLASS R FUSES. AFETY SWITCHES SHALL BE MANUFACTURED BY EATON, GENERAL ELECTRIC, SIEMENS OR

## CIRCUIT BREAKERS

RCUIT BREAKERS INDICATED TO BE INSTALLED IN EXISTING PANELBOARDS SHALL BE LDED CASE, UL LISTED AND SHALL BE RATED AS SHOWN ON THE DRAWINGS. PROVIDE ALL CESSARY MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL NEW RCUIT BREAKERS. NEW CIRCUIT BREAKERS SHALL MATCH EXISTING TYPES INSTALLED AND RATED CONSISTENT WITH THE EXISTING EQUIPMENT TO MANITAIN EQUIPMENT RATINGS. CESSORIES SHALL BE PROVIDED AS NOTED OR REQUIRED AND SHALL BE UL LISTED AND LD INSTALLABLE. FOR PROJECTS WHERE CIRCUIT BREAKERS WILL BE ADDED TO EXISTING RCUIT BREAKERS SHALL BE MANUFACTURED BY EATON, GENERAL ELECTRIC, SIEMENS OR

## 00 LIGHTING FIXTURES [LED]

HTING FIXTURE TYPES SHALL BE FURNISHED AS REQUIRED BY THE LIGHTING FIXTURE HEDULE AS INDICATED ON THE DRAWINGS. CATALOG NUMBERS ARE PROVIDED AS A JIDE TO THE DESIGN AND QUALITY OF FIXTURE DESIRED. EQUIVALENT DESIGNS AND UAL QUALITY FIXTURES OF OTHER MANUFACTURERS LISTED WILL BE ACCEPTABLE UPON PROVAL OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL VERIFY FROM THE INTRACT DRAWINGS THE TYPE CEILINGS OR WALLS THE FIXTURE IS TO BE USED WITH AND ALL PROVIDE COMPATIBLE MOUNTING ATTACHMENTS AND TRIM. PROVIDE ALL CESSORIES OR ADDITIONAL MATERIALS REQUIRED TO MAINTAIN THE CEILING FIRE RATING REQUIRED BY REGULATORY AUTHORITIES. D SOURCES SHALL BE HIGH INTENSITY WHITE, SINGLE COLOR AS NOTED. PROVIDE WHITE

DS IN THE COLOR TEMPERATURE(S) SPECIFIED. THE COLOR TEMPERATURE IN ALL LAMPS THE SAME TYPE SHALL BE CONSISTENT AND REMAIN SO OVER THE LIFE OF THE LAMP. LOR SONSITENCEY BETWEEN LAMPS SHALL CONFORM TO ANSI NEMA ANSLG STANDARD 3.377-2008. THE CONTRCTOR SHALL REPLACE LAMPS/FIXTURES EXIBITING INCONSITENT MP COLOR. MINIMUM LUMEN MANTENANCE SHALL BE 70% OF RATED INITIAL LUMEN JTPUT AT 50.000 HOURS OF OPERATION. MEASUREMENT OF LUMEN MAINTENANCE SHALL IN ACCORDANCE WITH ISED LM-80-09. THE LAMP AND/OR LUMINARE MANUFACTURER HALL PROVIDE A MINIMUM OF FIVE YTEAR WARRANTY FROM THE DATE OF FINAL CEPTANCE AGAINST PREMATURE FAILURE. DISCOLORATION AND DEFECTS. THE COLOR COLOR TEMPERATURE OF THE REPLACEMENT LED LAMPS SHALL MATCH THOSE OF THE ME LAMP TYPES THAT REMAIN IN OPERATION. THE MINUMUM COLOR RENDERING INDEX WHILE LEDS SHALL BE 80. ELECTRICAL AND PHOTOMETRIC PERFORMANCE OF LED

SEMBLIES AND LUMINAIRES SHALL CONFORM TO IES LM 79-08. INSES SHALL BE CLEAR VIRGIN ACRYLIC MATERIAL WITH UNIFORM 3/16" SQUARE BASED MALE CONE PRISMS ALIGNED 45° TO THE LENGTH AND WIDTH OF THE LENS PANEL. NIMUM PRISM DEPTH SHALL BE 0.080" WITH A NOMINAL PANEL THICKNESS OF 0.125" [0.156" ND A MINIMUM OVERALL PANEL THICKNESS OF 0.150" TO 0.160" INCHES]. D DRIVERS: PROVIDE HIGH FREQUENCY ELECTRONIC TYPE WITH THE SECONDARY LTAGE MATCHING THOSE REQUIRED BY THE LED SOURCE THEY OPERATE. DRIVERS ALL OPERATE WITH A 0F - 140F AMBIENT TEMPERATURE RANGE AND SHALL COMPLY WITH C CLASS A STANDARDS FOR EMI. MINIMUM DRIVER SPECIFICATIONS:

#### EFFICIENCY ≥ 90% CURRENT CREST FACTOR - 1.5 MINIMUM. TOTAL HARMONIC DISTORTION < 20%

POWER FACTOR ≥ 90%

RATED LIFE - 50,000 HOURS. IANUFACTURERS SHALL HAVE BEEN MANUFACTURING LED DRIVERS FOR AT LEAST TEN ARS WITH A DOCUMENTABLE LOW FAILURE RATE. THE CONTRACTOR SHALL PROVIDE A RITTEN WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP, INCLUDING EPLACEMENT FOR FIVE YEARS FROM THE DATE OF FINAL ACCEPTANCE. LAMP LUMINAIRES THAT HAVE FAILIED LAMPS AT SUBSTANTIAL COMPLETION. REPLACE D MODULES IN WHICH MORE THAN 5% OF THE LEDS HAVE FAILED LAMPS AT FINAL CEPTANCE OF THE WORK.

#### 265200 EMERGENCY AND EXIT LIGHTING FIXTURES

- A. EMERGENCY AND EXIT LIGHTING FIXTURES SHALL BE SELF\_CONTAINED UNITS AUTOMATICALLY ACTIVATED WHEN THE LINE VOLTAGE DROPS BELOW 80% AND SHALL COMPLY WITH UL 924, NFPA 101 - LIFE SAFETY CODE, NFPA 70 - NEC AND THE NCSBC. LIGHTING FIXTURE TYPES SHALL BE FURNISHED AS REQUIRED BY THE LIGHTING FIXTURE SCHEDULE AS INDICATED ON THE DRAWINGS. CATALOG NUMBERS ARE PROVIDED AS A GUIDE TO THE DESIGN AND QUALITY OF FIXTURE DESIRED. EQUIVALENT DESIGNS AND EQUAL QUALITY FIXTURES OF OTHER MANUFACTURERS LISTED WILL BE ACCEPTABLE UPON APPROVAL OF THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL VERIFY FROM THE CONTRACT DRAWINGS THE TYPE CEILINGS OR WALLS THE FIXTURE IS TO BE USED WITH AND SHALL PROVIDE COMPATIBLE MOUNTING ATTACHMENTS AND TRIM. PROVIDE ALL ACCESSORIES OR ADDITIONAL MATERIALS REQUIRED TO MAINTAIN THE CEILING FIRE RATING AS REQUIRED BY REGULATORY AUTHORITIES.
- B. ALL FIXTURES SHALL BE COMPLETELY SELF-CONTAINED, PROVIDED WITH MAINTENANCE FREE BATTERY, AUTOMATIC CHARGER AND OTHER FEATURES. THEY SHALL BE INSTALLED COMPLETE WITH LAMPS, BATTERIES, ETC. WHICH SHALL BE NEW AND UNUSED AT TIME OF FINAL INSPECTION OF THE PROJECT FOR ACCEPTANCE.
- C. ALL FIXTURES SHALL HAVE SELF-DIAGNOSTICS. ELECTRONICS SHALL AUTOMATICALLY, OR MANUALLY UPON DEMAND, CONDUCT SELF TEST ON BATTERY CONDITION (INCLUDING ACTUAL DISCHARGE), CHARGER, LAMPS AND INTERNAL WIRING INTEGRITY PER NEC AND NFPA AT PRESCRIBED INTERVALS. A PILOT LIGHT SHALL INDICATE THE UNIT IS CONNECTED TO AC POWER. PROVIDE TEST SWITCH AND VISUAL INDICATOR(S) OF UNIT OPERATIONAL CONDITION INCLUDING CHARGER STATUS, READY AND SERVICE CODE. TEST SWITCH SHALL SIMULATE OPERATION OF THE UNIT UPON LOSS OF AC POWER BY ENERGIZING LAMPS FROM THE BATTERY, AND ALSO EXERCISE THE TRANSFER RELAY.
- D. WARRANTY: EACH UNIT SHALL BE WARRANTED FOR THREE YEARS. THE BATTERY SHALL HAVE AN ADDITIONAL TWO MORE YEARS PRO-RATED WARRANTY. WARRANTY SHALL DATE FROM THE DATE OF FINAL PROJECT ACCEPTANCE AND BE INCLUDED IN THE CONTRACT DOCUMENT.

#### 270510 TELEPHONE AND DATA

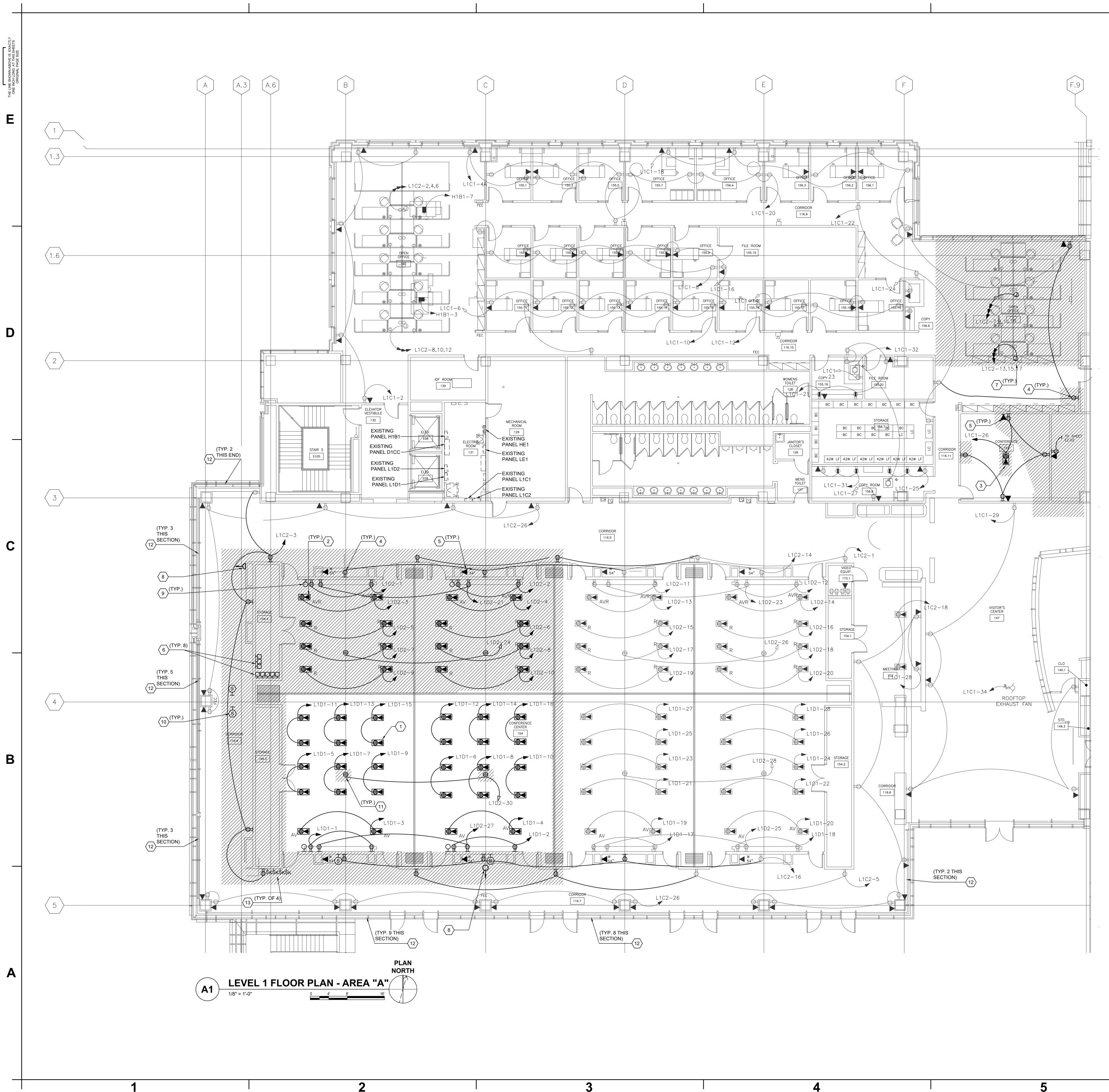
A. COMBINATION TELEPHONE AND DATA OUTLETS SHALL BE PROVIDED AS SHOWN AND SHALL CONSIST OF A 4" SQUARE X 2 1/8" DEEP BOX WITH 1" CONDUIT TO THE ACCESSIBLE CEILING CAVITY. CABLING WILL BE INSTALLED BY THE TENANT.

#### 283111 FIRE ALARM SYSTEM

- A. MODIFY THE EXISTING FIRE ALARM SYSTEM AS SHOWN. THE CONTRACTOR SHALL FURNISH ALL PARTS, MATERIALS, LABOR, ACCESSORIES, CONNECTIONS, EQUIPMENT, PROGRAMMING ETC. REQUIRED TO MODIFY THE SYSTEM AND MAINTAIN CODE COMPLIANCE IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS, EVEN IF EACH NEEDED ITEM IS NOT SPECIFICALLY SHOWN OR DESCRIBED ON THE CONTRACT DRAWINGS OR SPECIFICATIONS. PROVIDE ALL DOCUMENTATION, TESTING AND CERTIFICATION SERVICES AS REQUIRED BY ALL PERTINENT CODES AND THE AUTHORITY HAVING JURISDICTION (AHJ). ALL WORK SHALL BE IN COMPLIANCE WITH NFPA 70 AND 72 AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL EQUIPMENT SUPPLIED SHALL BE LISTED FOR THE PURPOSE FOR WHICH IT IS USED AND INSTALLED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN ITS LISTING. IT SHALL ALSO BE NEW, WITH A FULL WARRANTY (PARTS AND LABOR) OF AT LEAST
- ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. B. SHOP DRAWINGS MUST BE SUBMITTED BY THE FIRE ALARM CONTRACTOR COMPLYING WITH THE FIRE ALARM PLAN REVIEW REQUIREMENTS POLICY - JANUARY 2002 BEFORE PERMITTING BY THE WILMINGTON FIRE DEPARTMENT. THESE DRAWINGS DO NOT CONSTITUTE APPROVAL AND MAY CHANGE AFTER A FULL REVIEW BY THE WILMINGTON FIRE DEPARTMENT. A SEPARATE PERMIT MUST BE OBTAINED PRIOR TO INSTALLATION.



<sup>100%</sup> PERMIT DRAWING



| <ul> <li>CONNECTIONS ARE PROTECTED THROUGHOUT THE DEMOLITION AND<br/>CONSTRUCTION PHASES. THE ELECTRICAL CONTRACTOR MUST VERIEY<br/>BOTH POWER AND DATA ARE FULLY OPERATIONAL UPON COMPLETION O<br/>CONSTRUCTION. IF ANY DEVICES ARE FOUND TO BE NON-OPERATIONAL<br/>MUST BE RESTORED TO FULL FUNCTIONALITY.</li> <li>FLOOR BOX: REMOVE FLOOR BOX, REMOVE CONDUIT AND CONDUCTORS<br/>POWER TO SOURCE AND PROTECTING THE BREAKER FOR REUSE, CUT CO<br/>EMBEDDED IN CONCRETE FLUSH AND CAP OFF. REMOVE DATA OUTLETS<br/>CONDUIT AND CABLES TO SOURCE, CUT CONDUIT EMBEDDED IN CONCR<br/>FLUSH AND CAP OFF. CONTRACTOR MUST STORE AND PROTECT (4) FLO<br/>BOXES REMOVED FROM RAISED FLOOR SYSTEM FOR REUSE, SEE EP401<br/>LOCATIONS.</li> <li>FLOOR BOX: REMOVE FLOOR BOX. REMOVE CONDUIT AND CONDUCTORS<br/>POWER TO SOURCE AND PROTECTING THE BREAKER FOR REUSE, CUT C<br/>EMBEDDED IN CONCRETE FLUSH AND CAP OFF. REMOVE DATA OUTLETS<br/>CONDUIT AND CABLES TO SOURCE, CUT CONDUIT EMBEDDED IN CONCR<br/>FLUSH AND CAP OFF.</li> <li>RECEPTACLE: REMOVE RECEPTACLE, WALL PLATE AND BOX, REMOVE CC<br/>AND CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHEI<br/>UPSTREAM AND DOWNSTREAM DEVICES MUST REMAIN OPERATIONAL AN<br/>DEMOLITION IS COMPLETE. INO OTHER DEVICES ARE ON CIRCUIT REM<br/>CONDUIT AND CONDUCTORS COMPLETE TO SOURCE AND PROTECT BRE<br/>FOR REUSE.</li> <li>WALL MOUNTED DATA: REMOVE WALL PLATE AND BOX, REMOVE CONTROLL<br/>PROTECT FOR RELOCATION TO MECH RM 129, SEE EP401 FOR LOCATION<br/>(7) FURNITURE: REMOVE THE POWER POLE AND ALL WIRING AND EQUIPMEN<br/>AND CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED /<br/>ARE DISCONNECTED FROM THEIR SOURCE PANAL IN HEIR ENTRETY. P<br/>BREAKERS FOR POTENTIAL REUSE, IF OTHER DEVICES ARE ON CIRCUIT<br/>CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED /<br/>ARE DISCONNECTED FROM THEIR SOURCE PANEL IN THEIR ENTRETY. P<br/>BREAKERS FOR POTENTIAL REUSE, IS DE PEATIONAL AFTER<br/>DEMOLITION IS COMPLETE.</li> <li>CAMERA: COORDINATE REMOVE WALL PLATE AND BOX, REMOVE<br/>CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED, ALL<br/>UPSTREAM AND DOWNSTREAM SPEAKERS MUST REMAN APERATIONAL<br/>DEMOLITION IS</li></ul> | SPE                 | /ICES INDICATED WITH HATCHING SHALL BE DEMOLISHED. ANY EQUIPMENT<br>CIFICALLY NOTED TO REMAIN SHALL BE PROTECTED IN PLACE AND MUST<br>JAIN OPERATIONAL.                                                                                                                                                                                                                                         |
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| AMERIAA BENGR RANDER DIAMAGE IS BHOWN ON TANK DIAMATE PROVIDER AND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | REN<br>WAI<br>DEN   | IAIN IN PLACE, INCLUDING BUT NOT LIMITED TO RECEPTACLES, DATA OUTL<br>LL PHONES, FA DEVICES AND MUST BE PROTECTED IN PLACE DURING<br>IOLITION AND MUST BE OPERATIONAL DURING AND AFTER CONSTRUCTION                                                                                                                                                                                             |
| CONTRACTOR SINCE DE PROMITIVA NO COMPLETELY REMOVED FRONT HEI<br>CONTRACTOR DI CONTRACTO DI VICTORIO MERICIPACIÓN<br>CONTRACTOR DI CONTRACTO DI VICTORIO MERICIPACIÓN<br>CONTRACTORIO DE PROMITIVA DE CONTRACTO DI VICTORIO DE CONTRACTORIO<br>CONTRACTORIO DE PROMITIVA DE CONTRACTORI DI CONTRACTORI<br>CONTRACTORI DE CONTRACTORI DI VICTORIO DE CONTRACTORI<br>CONTRACTORI DE CONTRACTORI DI VICTORI<br>CONTRACTORI DE CONTRACTORI DI VICTORI<br>CONTRACTORI DI CONTRACTORI DI VICTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI DI CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI<br>CONTRACTORI                                                                                                                                                                                                                                                                                          | 3. NO               | FALL ELECTRICAL EQUIPMENT IS SHOWN ON PLANS. DEVICES NOT SHOWN                                                                                                                                                                                                                                                                                                                                  |
| <ul> <li>I. DOR BOX: BOXES NOT INCOMENTED BY HATCHING, WERRY POYTER AND COMPLETION MASSES THE FE CREDIC LODGENEETOR MUST UNREAD MUST VERY POYTER AND IN A ARE HAD TO PERATIDAL WIRK COMPLETION AND THE FE CREDICAL CONTRACTOR MUST UNREAD MUST UNR</li></ul>                                                                                                        | REL                 | OCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SI                                                                                                                                                                                                                                                                                                                                   |
| COMPACTIONS ARE PROTECTED INCOMENDATION OF THE DEVICITION AND<br>CONTENTION OF ANY DEVICES ARE FOUND TO BE INVOLVED AND CONSULTED<br>BERGER IN COACHER HILLY OR ANY DEVICES ARE FOR BLUES OUT<br>DEVICES ARE THE USE AND CAP OF REALING THE AND CONSULTED<br>PROTECTIONS OF THE ANY DEVICES ARE PROVE CONJULT AND CONSULTED<br>PROTECTIONS OF THE ANY DEVICES ARE PROVE CONJULT AND CONSULTED<br>PROTECTIONS OF THE ANY DEVICES ARE PROVE CONJULT AND CONSULTED<br>PROTECTIONS OF THE ANY DEVICES ARE PROVE CONJULT AND CONSULTED<br>PROVES REAL OUT DEVICES AND REAL PROVE CONJULT AND CONSULTED<br>PROTECTIONS OF THE ANY DEVICES AND REAL PROVE THE AND REAL SET FROM<br>THE AND AND CAP OF CONJULT AND CONSULTED AND REAL PROVE<br>CONSULTAND CAP OF CONJULT AND CONSULT AND CONSULTED<br>PROVES TO SUCKE AND PROVE THE AND REAL PROVE CONJULT AND<br>CONSULT AND CAP OF CONJULT AND CONSULT AND CONSULTED<br>AND CAP OF CONJULATION OF THE AND REAL PROVE CONTENT<br>OF THE AND CAP OF CONJULATION OF THE AND REAL PROVE<br>FLUES AND CAP OF CONTENT OF THE AND REAL PROVE CONTENT<br>OF THE AND CAP OF CONTENT OF THE AND REAL PROVE CONTENT<br>OF THE AND CAP OF CONTENT OF THE AND REAL PROVE CONTENT<br>OF THE AND CAP OF CONTENT OF THE AND REAL PROVE CONTENT<br>OF THE AND CAP OF CONTENT OF THE AND REAL PROVE CONTENT<br>OF THE AND CAP OF CONTENT OF THE AND REAL PROVE CONTENT<br>OF THE AND CAP OF CONTENT OF THE AND REAL PROVE CONTENT<br>OF THE AND CAP OF CONTENT OF THE AND REAL PROVE CONTENT<br>OF THE AND CONTENT OF THE CONTENT OF THE AND REAL PROVE CONTENT<br>OF THE AND CONTENT OF CONTENT OF THE AND REAL PROVE CONTENT<br>OF THE AND CONTENT OF THE CONTENT OF THE AND REAL PROVE CONTENT OF THE AND REAL PROVE<br>OF THE AND CONTENT OF THE CONTENT OF THE AND REAL PROVE<br>OF THE AND CONTENT OF THE CONTENT OF THE AND REAL PROVE<br>OF THE AND CONTENT OF THE CONTENT OF THE AND REAL PROVE<br>OF THE AND CONTENT OF THE CONTENT OF THE AND REAL PROVE<br>OF THE AND CONTENT OF THE CONTENT OF THE AND REAL PROVE<br>OF THE AND CONTENT OF THE CONTENT OF THE AND REAL PROVE<br>OF THE AND CONTENT OF THE CONTENT OF THE OF THE AND REAL PROVE<br>OF THE AND CONTENT OF THE AND REAL PROVE OF T        | KE                  | YED NOTES                                                                                                                                                                                                                                                                                                                                                                                       |
| <ul> <li>BOWER TO BOURDE AMP PROTECTING THE BRAKER FOR SELVICE CUTO<br/>DOCUMENT NO CALLED SUBJECT (CUTO CONCULT ENGEDDED NO COME<br/>PUISH AND CALLED SUBJECT (CUTO CONCULT ENGEDDED NO COME<br/>POWER TO SOURCE AMP PROTECTING THE SERVICE FOR REVICE CUTO<br/>CONCUMENT.</li> <li>PICORE REMOVE FLOOR BOX REMOVE CONSULT AND CONJULCTORE<br/>DOCUMENT OSCILLED AND PROTECTING THE SERVICE FOR REVICE CUTO<br/>CONDUCTING.</li> <li>PICORE TO SOURCE CUT CONCULT ENGEDDED NO COME<br/>PUISH AND CALLED SOURCE. CUT BOURD SOURCE CON POULTER SOURCE<br/>CONDUCTORS TO REAREST POINT OF USE NOT END END CONCULT ENGE<br/>PUISH AND CALLED SOURCE. CONTRACTOR MUST REMAIN OPERATIONAL<br/>DESCULTO SOURCE TO SOURCE.</li> <li>MALL MOINTED DATA SERVICE MULT PARE AND BOX. REMOVE COAL<br/>SOURCE TO REAL DO CONTROL OF A SERVICE CUT CUT<br/>END CONCULTOR SOURCE CONTROL OF A SERVICE COME<br/>OF REALS.</li> <li>MALL MOINTED DATA SERVICE WALL PLATE AND BOX. REMOVE COAL<br/>SOURCE TO REAL DOCUMENT OF USE AND THE MAIN OPERATIONAL<br/>AND CONCULTOR SOURCE.</li> <li>DARPER SIMP CONTROL OF AND CONTROL OF AND CONTROL<br/>SOURCE TO REAL DOCUMENT AND CONTROL OF AND CONTROL<br/>OF REVICE SOURCE TO REMOVE REAL AND CONTROL<br/>OF REVICE SOURCE TO SOURCE.</li> <li>COMENT CONTROL OF AND CONTROL OF AND CONTROL<br/>OF REVICE SOURCE TO SOURCE.</li> <li>COMENT CONTROL TO SOURCE.</li> <li>COMENT CONTROL TO SOURCE.</li> <li>COMENT CONTROL TO SOURCE.</li> <li>COMENT CONTROL TO SOURCE TO SOURCE AND CONTROL OF AND CONTROL<br/>OF REVICE SOURCE TO SOURCE TO SOURCE AND CONTROL OF AND CONTROL<br/>OF REVICE SOURCE TO SOURCE TO SOURCE TO SOURCE AND CONTROL OF REVICE SOURCE AND CONTROL</li></ul>                                        | $\langle 1 \rangle$ | CONSTRUCTION PHASES. THE ELECTRICAL CONTRACTOR MUST VERIFY THE<br>BOTH POWER AND DATA ARE FULLY OPERATIONAL UPON COMPLETION OF<br>CONSTRUCTION. IF ANY DEVICES ARE FOUND TO BE NON-OPERATIONAL, T                                                                                                                                                                                               |
| <ul> <li>IL COS NOV BENCH TOOR TOO TOOL TOO TOOL TOOL TOOL TOOL T</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2                   | FLOOR BOX: REMOVE FLOOR BOX, REMOVE CONDUIT AND CONDUCTORS F<br>POWER TO SOURCE AND PROTECTING THE BREAKER FOR REUSE, CUT CO<br>EMBEDDED IN CONCRETE FLUSH AND CAP OFF. REMOVE DATA OUTLETS,<br>CONDUIT AND CABLES TO SOURCE, CUT CONDUIT EMBEDDED IN CONCRET<br>FLUSH AND CAP OFF. CONTRACTOR MUST STORE AND PROTECT (4) FLOO<br>BOXES REMOVED FROM RAISED FLOOR SYSTEM FOR REUSE, SEE EP401 F |
| <ul> <li>AND CONDUCTORS TO MEANEST POINT OF USE NOT BEING DEMOLSHAL<br/>DEMOLITION IS COMPLETE FOR OTHER DEVICES ARE ON CIRCUIT REMO<br/>EVENTHELISE.</li> <li>WALL MOUNTED DATA REMOVE WALL PLATE AND BOX, REMOVE CABLE.<br/>CONDUCTOR CONTENT TO SOLRE. CONTRACT DRIVENCE CONTROL<br/>PROTECT FOR RELOCATION TO MECHANINA 28 SEE EPOI FOR LOCATION<br/>ARE DISCONCEDED FOR PORSE POLS AND ALL WINNS AND DE DUPME<br/>PROTECT FOR RELOCATION TO MECHANINA 28 SEE EPOI FOR LOCATION<br/>ARE DISCONCEDED FOR THE SOLRES. CONTRACT DRIVENCE CONTROL<br/>OPTICATION FOR THE FOR DUPME POLS AND ALL WINNS AND DE DUPME<br/>PROTECT FOR RELOCATION TO MECHANINA 28 SEE EPOI FOR LOCATION<br/>ARE DISCONCEDED FOR THE POWER POLS AND ALL WINNS AND DE DUPME<br/>PROTECT FOR RELOCATION TO MECHANINA AND E<br/>DEMOLITION IS COMPLETE.</li> <li>OR STREMA AND DOWN THE POWER POLS AND ALL WERE<br/>DEMOLITION IS COMPLETE.</li> <li>OR STREMA CONTROL RELOCATION AND THE POST DEMOLITION TO WINE POLS<br/>DEMOLITION IS COMPLETE.</li> <li>OR STREMA CONTROL RELOCATION AND THE POST DEMOLITION TO WINE POLS<br/>DEMOLITION IS COMPLETE.</li> <li>OR STREMA AND DOWN THE RELOCE CONTROL AND EDUING<br/>DEMOLITION IS COMPLETE.</li> <li>OR STREMA CONTROL RELOCATION AND THE POST DEMOLITION ALD DEMOLITION<br/>DEMOLITION IS COMPLETE.</li> <li>OR STREMA CONTROL RELOCATION AND THE POST DEMOLITION AND DOWNTRIN<br/>THENONE CONDUCTION RELOCATION AND THE POST DEMOLITION AND DOWNTRIN<br/>THENONE CONDUCTION RECOVER STATE AND DELIVER TO OWNER. THEN<br/>DEMOLITION IS COMPLETE TO SUBJERE.</li> <li>SINDER MUST REMAND DECOMPLET TO SUBJERE.</li> <li>SINDER MUST REMAND POLICIPIES. CONTRACT STREMA STREMAND DECIVER TO ALL<br/>PROVINCE CONDUCT AND CONDUCTORS TO MARKET POINT OF USE NOT CONTROL CONTROL CONTROL CONTROL CONDUCTORS TO MARKET POINT OF USE NOT CONTROL CONTROL CONTROL CONTROL CONDUCTORS. COMPLETE TO SUBJERS.</li> <li>SINDER MUST REMAND DECIVER MAD POLICIPIES. CONTROL CONTROL</li></ul>                                                             | 3                   | FLOOR BOX: REMOVE FLOOR BOX, REMOVE CONDUIT AND CONDUCTORS F<br>POWER TO SOURCE AND PROTECTING THE BREAKER FOR REUSE, CUT CO<br>EMBEDDED IN CONCRETE FLUSH AND CAP OFF. REMOVE DATA OUTLETS,<br>CONDUIT AND CABLES TO SOURCE, CUT CONDUIT EMBEDDED IN CONCRET                                                                                                                                   |
| <ul> <li>COMULT COMPLETE TO SOURCE.</li> <li>PROPER REMOVE CONTROLLER: CONTRACTOR MUST REMOVE CONTROL<br/>PROPERTY TO REMOVE THE FOWER POLE AND ALL WIRNS AND EDUPTINE<br/>AND ADDITION TO MECHANING THE REMOVE THE REMOVE TO A TALL. CIRK<br/>ARE DECOMPLETED FROM THE SOURCE PAREL IN THEIR REMOVES<br/>CONTROL TO SOURCE.</li> <li>PROPERTY TO AND THE POWER POLE AND ALL WIRNS AND EDUPTINE<br/>CONDUCTORS TO NEARCH STEP PONT OF USE NOT EARN DEMOVES TO<br/>CONTROL TO SOURCE.</li> <li>CAREEA: COORDINATE REMOVE ADDIEST TO ANAMER PROC<br/>CABLE FOR RELASS. SEE EPAOL FOR LOCATION.</li> <li>CREETA: COORDINATE REMOVE ADDIEST TO ANAMER PROC<br/>CABLE FOR RELASS. SEE EPAOL FOR LOCATION.</li> <li>CREETA: COORDINATE REMOVE ADDIEST TO ANAMER PROC<br/>CABLE FOR RELASS. SEE EPAOL FOR LOCATION.</li> <li>CREETA: COORDINATE REMOVE ADDIEST TO ANAMER PROC<br/>CABLE FOR RELASS. SEE EPAOL FOR LOCATION.</li> <li>CREETA: COORDINATE REMOVE ADDIEST TO ANAMER PROC<br/>CABLE FOR RELASS. SEE EPAOL FOR LOCATION.</li> <li>CREETA: COORDINATE TO ANALESS PERAMER AND DELIVER TO OWNER, PROC<br/>CABLE FOR RELASS. SEE EPAOL FOR LOCATION.</li> <li>CREETA: CONTRACTOR MUST REMOVE ADDIEST TO CONTRACTOR MUST REMOVE CONTRACT TO AND CONTRACT<br/>CONTRACTOR MALE CONTRACTOR MUST REMOVE ADDIEST TO CONTRACT<br/>PROVIDE CONTRACT TO MUST REMOVE ADDIEST TO CONTRACT TO AND CONTRACT<br/>CONTRACTOR MUST VEHICLE TO ANALESS PERAMER ADDIEST TO CONTRACT<br/>PROVIDE CONTRACT TO REMOVE ADDIEST CONTRACT TO AND CONTRACT<br/>CONTRACTOR MUST VEHICLE TO ANALESS PERAMER ADDIES ON EACH<br/>CONTRACT TO MUST VEHICLE TO ANALESS TO ADDIE<br/>CONTRACT TO BENCHTON TO SUBJECT TO REASE TO ADDIE<br/>STAT TO ADDIECT TO REASE TO ADDIEST CONTRACT CONTRACT CONTRACT CONTRACT TO REMOVE CONTRACT CONTRACT CONTRACT<br/>PROVIDED TO CONTRACT TO REMOVE CONTRACT CONTROL CONTRACT<br/>CONTRACT AND PROVE CONTRACT CONTRA</li></ul>                                                    | 4                   | RECEPTACLE: REMOVE RECEPTACLE, WALL PLATE AND BOX, REMOVE CON<br>AND CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED.<br>UPSTREAM AND DOWNSTREAM DEVICES MUST REMAIN OPERATIONAL AFT<br>DEMOLITION IS COMPLETE. IF NO OTHER DEVICES ARE ON CIRCUIT REMOV<br>CONDUIT AND CONDUCTORS COMPLETE TO SOURCE AND PROTECT BREAK<br>FOR REUSE.                                                   |
| <ul> <li>PROTECT FOR RELIGATION TO MECH RM 12, SEE EP401 FOR LOCATION<br/>ARE DESCONFECTED FOR THE FOR UNDER LATER DEVICES MEET AND ALL WINNER AND COUNTED<br/>ARE DESCONFECTED FOR THE PROVE ONE AND ALL WINNER AND COUNTED<br/>CONDUCTORS 10 NEARTS POINT OF USE ON THE UNDER DEVICES AND CHICUT<br/>CONDUCTORS 10 NEARTS POINT OF USE ON THE UNDER DEVICES AND CHICUT<br/>CONDUCTORS 10 NEARTS POINT OF USE ON THE UNDER DEVICES MEET AND<br/>CONDUCTORS 10 NEARTS POINT OF USE ON THE UNDER DEVICES MEET AND<br/>CONDUCTORS 10 NEARTS POINT OF USE AND CHICK TO WHEN FIND<br/>CONDUCTORS 10 NEARTS POINT OF USE AND CHICK TO WHEN FIND<br/>CONDUCTOR VICONNECTORS TERMOVE PARENT AND DELIVER 10 DOWNER FIND<br/>CONDUCTOR VICONNECTORS TERMOVE PARENT AND DELIVER 10 DOWNER FIND<br/>CONDUCTOR VICONNECTORS TO MARE THE ADD STARLING CHEMOLIE<br/>DEVICING VICONNECTORS TO ALL PARENT AND CHICK TO MARE<br/>PROVIDENT AND CONNECTORS TO MARE THE ADD STARLING CHEMOLIE<br/>IN CONDUCTION VICONNECTORS TO MARE THE ADD STARLING CHEMOLIE<br/>DEVICING VICONNECTORS TO ALL PARENT AND THE DEVICES MUST REMOVE<br/>CHEMICAL CALL PARTNERS MARE TRANSFERRED TO THE DEVICES<br/>UNDER VICE THAN MARE TO REMOVE RECEPTIONS COMPLETE TO SOURCE.<br/>THE ONE CONDUCTORS TO ADD CONDUCTORS TO MARE THE DEVICES MUST REMOVE<br/>CHEMICAL PARTNERS AND ADD CONSTRUMENT BEAM OF THE DEVICES<br/>UNDER VICE THEORY AND THE TEND AND TO SUBJECT.</li> <li>SHART OF DEMOLITION TO SOURCE CONTROL CALLES TO ALL<br/>START OF DEMOLITION. THE CONTROL WIST FEMOLULE CONTROL CALLES TO ALL<br/>CONTROL CONTROL SHIPT CONTROL WIST FEMOLULE CONTROL CALLES TO<br/>CHECUT PRIOR TO START OF DEMOLITION. SEE EP401 FOR LOCATION.</li> <li>SHART OF DEMOLITION SEE EP401 FOR LOCATION.</li> <li>SHART CONTROL WIST FEMOLULITON. SEE EP401 FOR LOCATION.</li> <li>SHART OF DEMOLITION SEE TO START OF DEMOLITION SEE EP401 F</li></ul>                                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                 |
| <ul> <li>ASSOCIATED WITH THE DEMOLSINE PURINUER, UPINT TATALLOW ARE ON CHOUND THERAUBLES ON EACH DIRECT AND CONSTITUENT OF THE OPINICIA ARE DO CHOUND UPINT REAM AND COMPARISAND EXCREMENTIAL RELIES.</li> <li>COMERNI, COORDINATE REMOVAL OF CAMERA WITH OWNER PRIOR TO OF DEMOLSTICIN, SEE LEVINT FOR LOCATION.</li> <li>CRESTRON AV CONNECTIONS: REMOVE WITH AND DELIVER TO COMPARISAND OF COMPARISANDO OF COMPARISAN</li></ul>                                                                                                                |                     | DRAPER SHADE CONTROLLER: CONTRACTOR MUST REMOVE CONTROLLE<br>PROTECT FOR RELOCATION TO MECH RM 129, SEE EP401 FOR LOCATION.                                                                                                                                                                                                                                                                     |
| <ul> <li>OF DEMOLITION WORK, REMOVE CAMERA AND DELIVER TO OWNER, PROC<br/>CALLE FOR REUSE, SE FORM TO BUILT AND CATION.</li> <li>CRESTRON AV CONNECTIONS: REMOVE WALL PLATE AND DOLIVER TO OWNER<br/>REMOVE SPEAKER CABLE TO MARKET SPEAKER NOT DELIVER TO OWNER<br/>REMOVE SPEAKER CABLE TO MARKET SPEAKER NOT DELIVER TO OWNER<br/>REMOVE SPEAKER CABLE TO MARKET SPEAKER NOT DELIVER TO OWNER<br/>REMOVE SPEAKER CABLE TO MARKET SPEAKER NOT DELIVER TO OWNER<br/>REMOVE SPEAKER CABLE TO MARKET SPEAKER NOT DELIVER TO OWNER<br/>REMOVE SPEAKER CABLE TO MARKET SPEAKER NOT DELIVER TO OWNER<br/>REMOVE SPEAKER CABLE TO MARKET SPEAKER NOT DELIVER TO OWNER<br/>REMOVE SPEAKER CABLE COMPLETE.</li> <li>MORTITICH SCOMPLETE.</li> <li>SHADE CONTRACTOR MUST REMOVE SPEAKER NOT DELIVER TO SOURCE.</li> <li>SHADE CONTRACTOR MUST REPOVE OWNER DEMOLITION AD CONSTRU-<br/>DENTRATOR MUST REPOVE OWNER DEMOLITION AND CONSTRU-<br/>DENTRATOR MUST REPOVE OWNER DEMOLITION AND CONSTRU-<br/>DENTRATOR MUST REPOVE OWNER DEMOLITION AND CONSTRU-<br/>START OF DEMOLITION.</li> <li>SHADE CONTRACTOR MUST REPOVE SHADE CONT<br/>AND PROTECT FOR REINSTALLATION. REMOVE CONTROL CABLES TO AS<br/>CELLING AND PROTECT FOR REINSTALLATION. REMOVE CONTROL CABLES TO AS<br/>CELLING AND PROTECT FOR REINSTALLATION. SEEL ENGI FOR LOCATION.</li> <li>SHADE CONTRACTOR MUST VERFY OWNER TH OF MILD CABLES TO AS<br/>CELLING AND PROTECT FOR REINSTALLATION. SEEL ENGI FOR LOCATION.</li> <li>NORK THIS AREA</li> <li>NORK T</li></ul>                                                                                                                                                            |                     | ASSOCIATED WITH THE DEMOLISHED FURNITURE, VERIFY THAT ALL CIRCL<br>ARE DISCONNECTED FROM THEIR SOURCE PANEL IN THEIR ENTIRETY. PRO<br>BREAKERS FOR POTENTIAL REUSE, IF OTHER DEVICES ARE ON CIRCUIT RI<br>CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED, ALL<br>UPSTREAM AND DOWNSTREAM DEVICES MUST BE OPERATIONAL AFTER                                                             |
| CONDUIT AND ALL CARLING TO SOURCE:<br>9 PEAKERS: CONTRACTOR MUST REMOVE SPEAKER AND DELIVER TO OWN<br>PETIEAM AND DOWNSTREAM SPEAKER MUST REMAVE PORTODUL<br>DEMOLITION IS COMPLETE IN CONVERTING AND DEVINISTING<br>DEMOLITION IS COMPLETE IN CONVERTING AND DEVINISTING<br>DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM DEVICES MUST REMA<br>OPERATIONAL ATER DEMOLITION IS CONTRACTOR MUST REMOVE SHADES ON EACH CIRCUIT<br>START OF DEMOLITION.<br>9 SHADES MUST REMAIN PROTECTED DURING DEMOLITION AND CONSTRU-<br>CIRCUIT REMOVE CONDUIT AND POINTSTREAM DEVICES MUST REMAX<br>PETIECTOR MUST REMAIN PROTECTED DURING DEMOLITION AND CONSTRU-<br>CIRCUIT REMOVE CONDUIT AND POINTSTREAM DEVICES MUST REMAX<br>PETIECTOR MUST REMAIN PROTECTED DURING DEMOLITION AND CONSTRU-<br>CIRCUIT REMOVE CONDUIT AND POINTSTREAM DEVICES MUST REMAX<br>PETIECTOR REMAIN PROTECT FOR RECONNECTION TO RELOCATED SHADE CON<br>AND CONTRICT FOR RECONNECTION TO RELOCATED SHADE CON<br>CREATE OF DEMOLITION.<br>9 SHADE CONTROCT START OF DEMOLITION SEE DEVIDION<br>CIRCUIT REMOVE CONDUIT AND CONTRACTOR MUST REMOVE SHADE CON<br>CREATE OF DEMOLITION. SEE DEVIDION TO RELOCATED SHADE CON<br>CREATE OF DEMOLITION STATT OF DEMOLITION SEE DEVIDION<br>9 SHADES ON TRACTOR MUST REMOVE CONTRACTOR MUST REMOVE SHADE CON<br>CREATE OF DEMOLITION. SEE DEVIDION<br>9 SHADES ON TRACTOR MUST REMOVE CONTRACTOR<br>9 SHADES ON TRACTOR MUST REMOVE CONTRACTOR MUST REMOVE SHADE CON<br>CREATE OF DEMOLITION. SEE DEVIDION<br>9 SHADES ON TRACTOR MUST REMOVE CONTRACTOR<br>9 SHADES ON TRACTOR<br>9 SHADES ON TRACTOR<br>9 SHADES ON TRACTOR MUST REMOVE CONTRACTOR<br>9 SHADES ON TRACTOR<br>9 S        | 8                   | CAMERA: COORDINATE REMOVAL OF CAMERA WITH OWNER PRIOR TO S<br>OF DEMOLITION WORK, REMOVE CAMERA AND DELIVER TO OWNER, PROT<br>CABLE FOR REUSE, SEE EP401 FOR LOCATION.                                                                                                                                                                                                                          |
| REMOVE SPEAKER CABLE TO NEAREST SPEAKER NOT REING DEMOLISHI<br>UPSTREAM AND DOWNSTREAM SPEAKER MUST REMAIN OPFRATIONAL<br>DEMOLITION IS COMPLETE:          Image: Complete Complet                                                                                                                                     | 9                   | ,                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul> <li>GLING MOUNTED PROJECTOR. REMOVE RECEPTACLE, FACE PLATE AN REMOVE COMULT AND COMULTORS TO MARREST POINT OF USE NOT REMOVE COMULT AND COMULT AND COMULT REMOVE COMULT AND COMULT AND COMULT REMOVE COMULT REMOVE COMULT RAMOVE COMULT AND COMULT REMOVE COMULT RAMOVE RA</li></ul>                                                                                                        | < <u>10</u>         | SPEAKERS: CONTRACTOR MUST REMOVE SPEAKER AND DELIVER TO OWN<br>REMOVE SPEAKER CABLE TO NEAREST SPEAKER NOT BEING DEMOLISHED<br>UPSTREAM AND DOWNSTREAM SPEAKERS MUST REMAIN OPERATIONAL A<br>DEMOLITION IS COMPLETE.                                                                                                                                                                            |
| <ul> <li>Subdes MUST REMAIN PROTECTED DURING DEMOLITION AND CONSTRUCT OR MUST VERIFY QUARTITY OF SHADES ON EACH CIRCUTPRISCONTRACTOR MUST VERIFY QUARTITY OF SHADES ON EACH CIRCUTPRISCONTRACTOR MUST REMOVE SHADE CONTRACTOR MUST REMOVE SHADE CONT</li></ul>                                                                                                        | (11)                | CEILING MOUNTED PROJECTOR: REMOVE RECEPTACLE, FACE PLATE AND<br>REMOVE CONDUIT AND CONDUCTORS TO NEAREST POINT OF USE NOT BE<br>DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM DEVICES MUST REMAIN<br>OPERATIONAL AFTER DEMOLITION IS COMPLETE. IF NO OTHER DEVICES A<br>CIRCUIT REMOVE CONDUIT AND CONDUCTORS COMPLETE TO SOURCE.                                                                     |
| ADDE CONTROL SWITCHES: CONTRACTOR MUST REMOVE SHADE CONTRACTOR RE-INSTALLATION, REMOVE CONTROL CABLES TO ADDE CONTROL ADDE CONTROL ADDE CONTROL SWITCHES: CONTRACTOR MUST VERIFY QUANTITY OF SHADES ON EACH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (12)                | SHADES MUST REMAIN PROTECTED DURING DEMOLITION AND CONSTRUC<br>CONTRACTOR MUST VERIFY QUANTITY OF SHADES ON EACH CIRCUIT PRIC                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 13                  | SHADE CONTROL SWITCHES: CONTRACTOR MUST REMOVE SHADE CONTR<br>AND PROTECT FOR RE-INSTALLATION, REMOVE CONTROL CABLES TO ABC<br>CEILING AND PROTECT FOR RECONNECTION TO RELOCATED SHADE CONT                                                                                                                                                                                                     |
| Image: construction of the second                                                                                                                                              |                     |                                                                                                                                                                                                                                                                                                                                                                                                 |
| A5 KEY PLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | P                   |                                                                                                                                                                                                                                                                                                                                                                                                 |
| A5 KEY PLAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                     |                                                                                                                                                                                                                                                                                                                                                                                                 |
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| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     | 6                                                                                                                                                                                                                                                                                                                                                                                               |

**GENERAL NOTES** 



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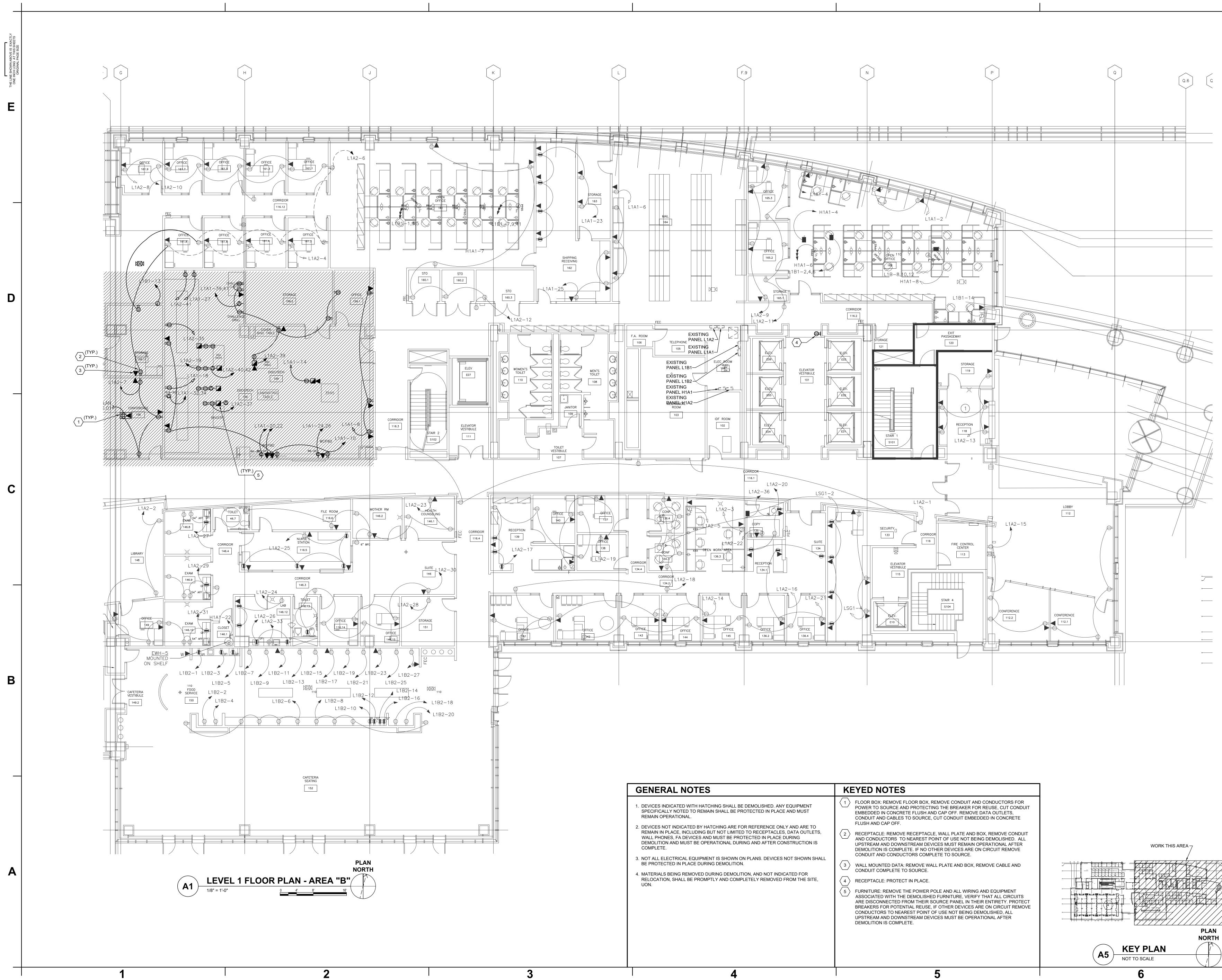
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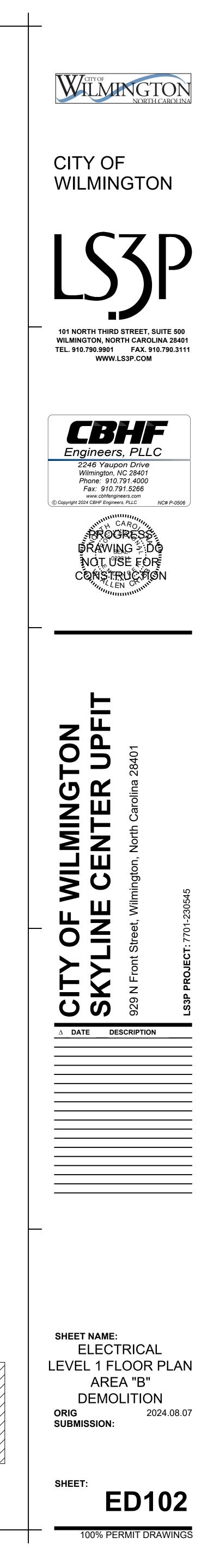


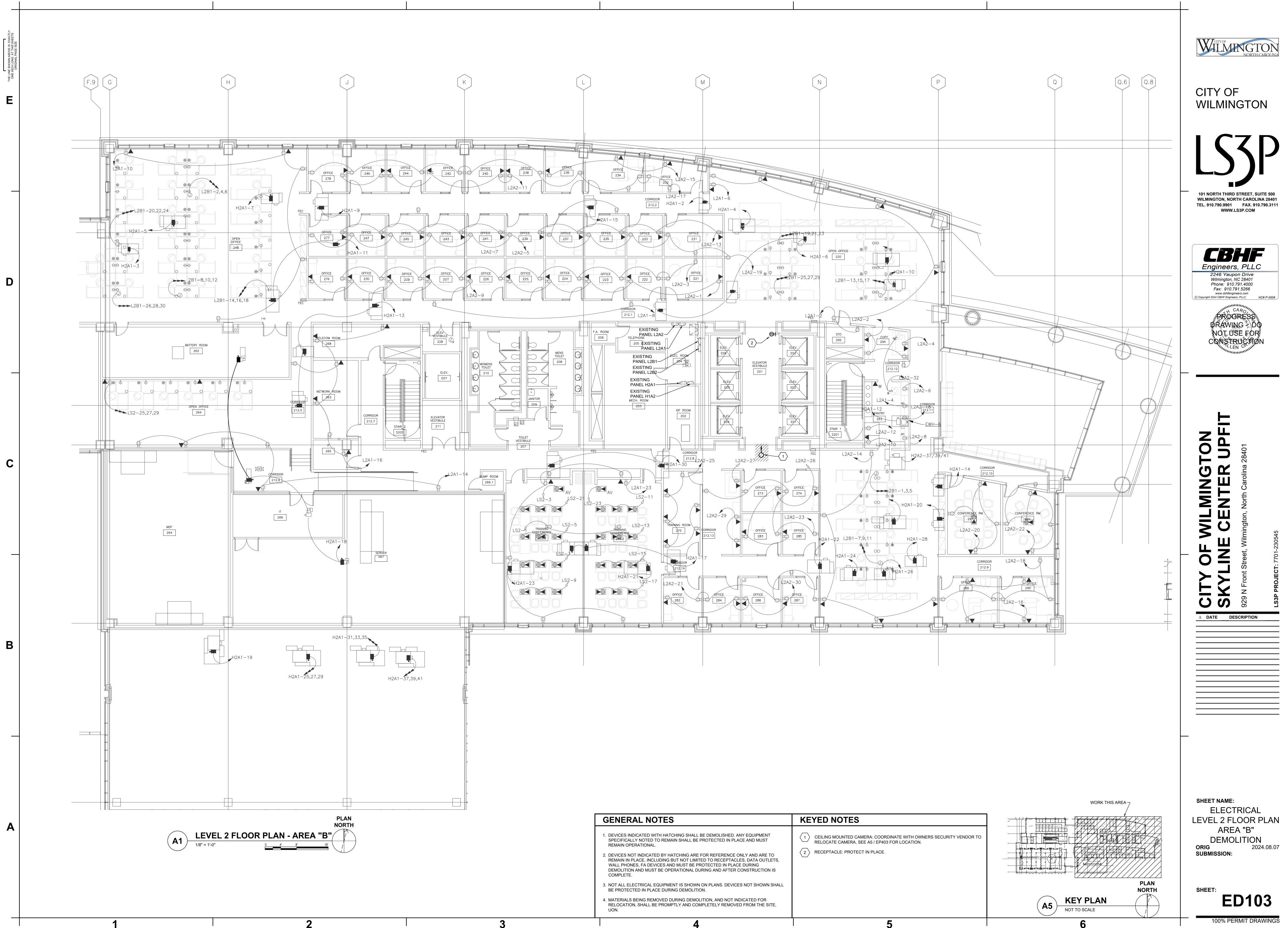


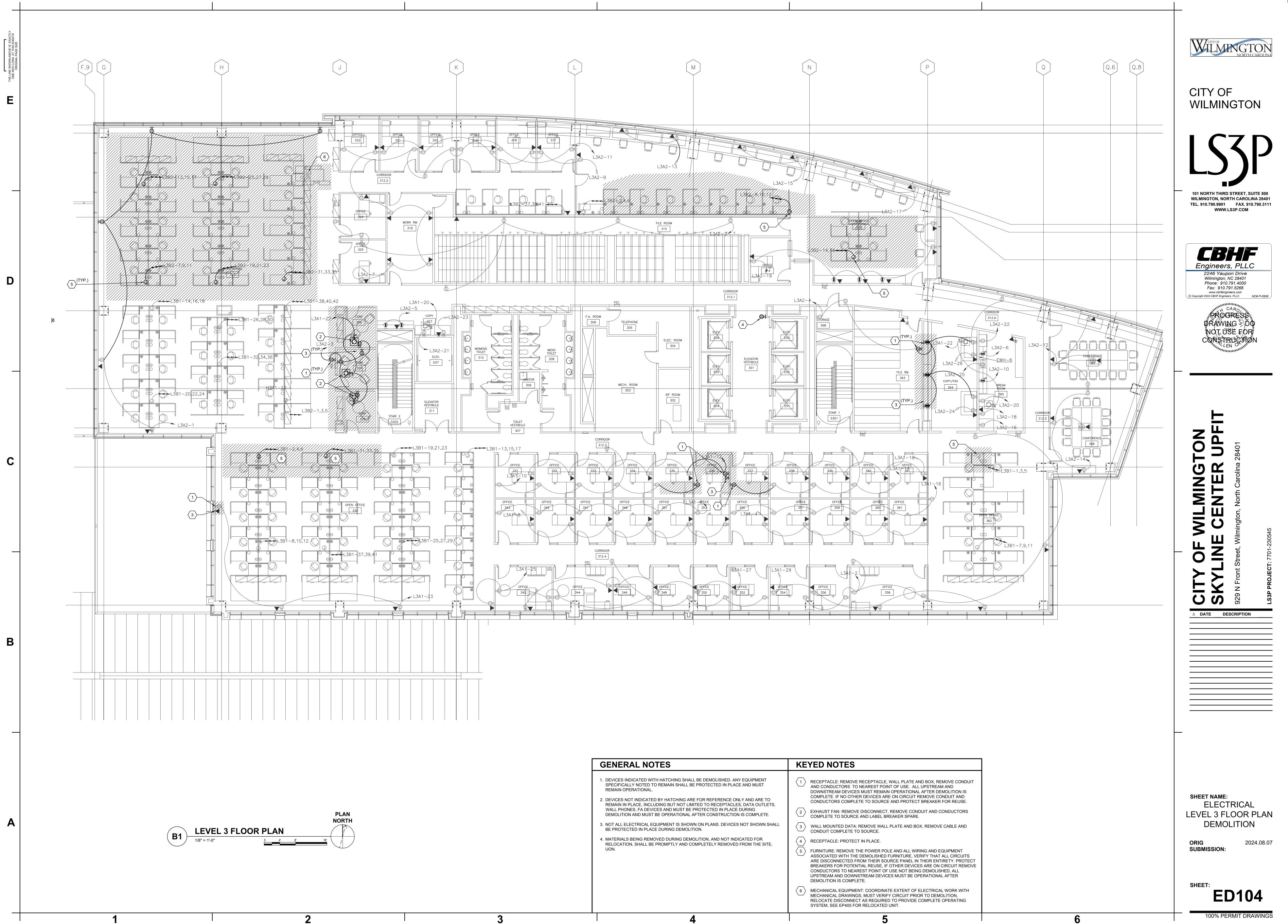




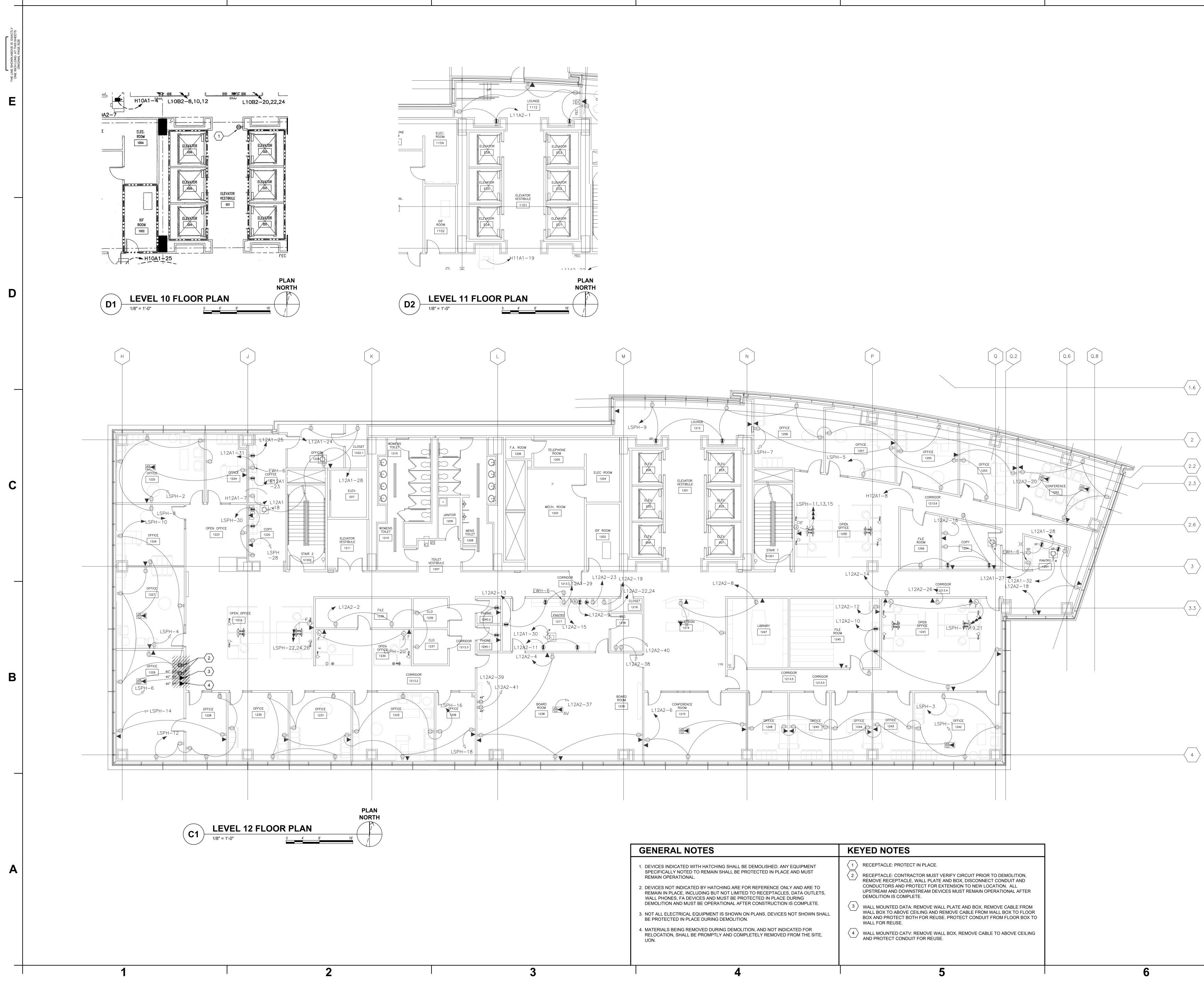






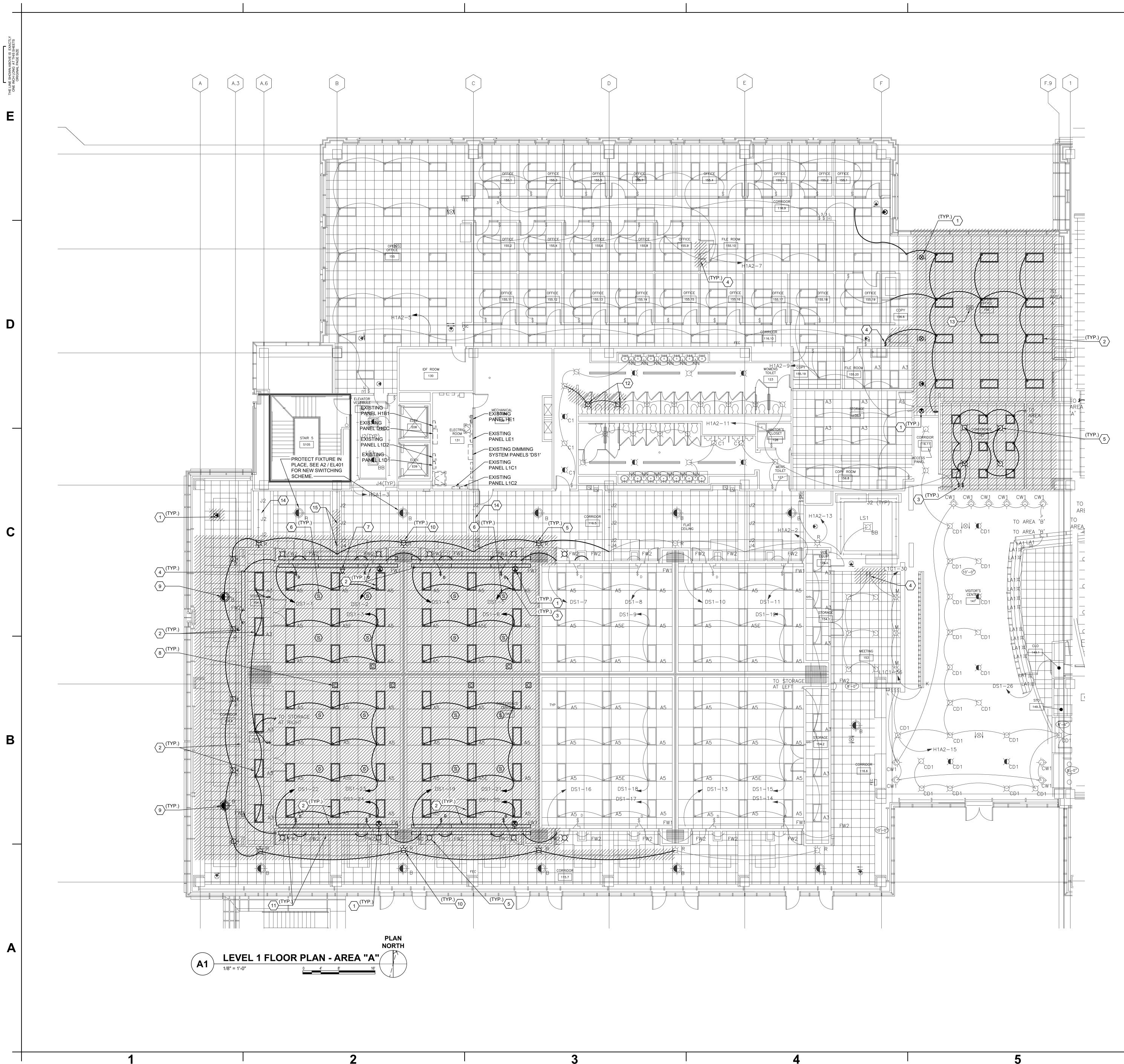


|                                          | KEYED NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| IPMENT<br>MUST<br>D ARE TO<br>A OUTLETS, | 1 RECEPTACLE: REMOVE RECEPTACLE, WALL PLATE AND BOX, REMOVE CONDUIT<br>AND CONDUCTORS TO NEAREST POINT OF USE. ALL UPSTREAM AND<br>DOWNSTREAM DEVICES MUST REMAIN OPERATIONAL AFTER DEMOLITION IS<br>COMPLETE. IF NO OTHER DEVICES ARE ON CIRCUIT REMOVE CONDUIT AND<br>CONDUCTORS COMPLETE TO SOURCE AND PROTECT BREAKER FOR REUSE.                                                                                                         |
| NG<br>DMPLETE.                           | 2 EXHAUST FAN: REMOVE DISCONNECT, REMOVE CONDUIT AND CONDUCTORS COMPLETE TO SOURCE AND LABEL BREAKER SPARE.                                                                                                                                                                                                                                                                                                                                  |
| SHOWN SHALL                              | 3 WALL MOUNTED DATA: REMOVE WALL PLATE AND BOX, REMOVE CABLE AND CONDUIT COMPLETE TO SOURCE.                                                                                                                                                                                                                                                                                                                                                 |
| D FOR<br>1 THE SITE,                     | 4 RECEPTACLE: PROTECT IN PLACE.                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                          | 5 FURNITURE: REMOVE THE POWER POLE AND ALL WIRING AND EQUIPMENT<br>ASSOCIATED WITH THE DEMOLISHED FURNITURE, VERIFY THAT ALL CIRCUITS<br>ARE DISCONNECTED FROM THEIR SOURCE PANEL IN THEIR ENTIRETY. PROTECT<br>BREAKERS FOR POTENTIAL REUSE, IF OTHER DEVICES ARE ON CIRCUIT REMOVE<br>CONDUCTORS TO NEAREST POINT OF USE NOT BEING DEMOLISHED, ALL<br>UPSTREAM AND DOWNSTREAM DEVICES MUST BE OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE. |
|                                          | 6 MECHANICAL EQUIPMENT: COORDINATE EXTENT OF ELECTRICAL WORK WITH<br>MECHANICAL DRAWINGS, MUST VERIFY CIRCUIT PRIOR TO DEMOLITION,<br>RELOCATE DISCONNECT AS REQUIRED TO PROVIDE COMPLETE OPERATING<br>SYSTEM, SEE EP405 FOR RELOCATED UNIT.                                                                                                                                                                                                 |



|                                                                                | KEYED NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| JIPMENT<br>D MUST<br>ND ARE TO<br>TA OUTLETS,<br>NG<br>OMPLETE.<br>SHOWN SHALL | <ul> <li>RECEPTACLE: PROTECT IN PLACE.</li> <li>RECEPTACLE: CONTRACTOR MUST VERIFY CIRCUIT PRIOR TO DEMOLITION,<br/>REMOVE RECEPTACLE, WALL PLATE AND BOX, DISCONNECT CONDUIT AND<br/>CONDUCTORS AND PROTECT FOR EXTENSION TO NEW LOCATION. ALL<br/>UPSTREAM AND DOWNSTREAM DEVICES MUST REMAIN OPERATIONAL AFTER<br/>DEMOLITION IS COMPLETE.</li> <li>WALL MOUNTED DATA: REMOVE WALL PLATE AND BOX, REMOVE CABLE FROM<br/>WALL BOX TO ABOVE CEILING AND REMOVE CABLE FROM WALL BOX TO FLOOR<br/>BOX AND PROTECT BOTH FOR REUSE. PROTECT CONDUIT FROM FLOOR BOX TO<br/>WALL FOR REUSE.</li> <li>WALL MOUNTED CATV: REMOVE WALL BOX, REMOVE CABLE TO ABOVE CEILING</li> </ul> |
| M THE SITE,                                                                    | AND PROTECT CONDUIT FOR REUSE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |





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| GE                  | ENERAL NOTES                                                                                                                                                                                                                                                                                      |  |  |  |  |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| DE                  | GHT FIXTURES, SWITCHES AND SENSORS INDICATED WITH HATCHING SHALL BE<br>MOLISHED. LIGHTS SPECIFICALLY NOTED TO REMAIN SHALL REMAIN<br>ERATIONAL AND PROTECTED DURING DEMOLITION.                                                                                                                   |  |  |  |  |
| NO<br>PL/           | 2. DEVICES NOT INDICATED BY HATCHING ARE TO REMAIN IN PLACE INCLUDING BUT<br>NOT LIMITED TO FIXTURES, SWITCHES AND SENSORS MUST BE PROTECTED IN<br>PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONSTRUCTION IS<br>COMPLETE.                                                             |  |  |  |  |
|                     | T ALL ELECTRICAL EQUIPMENT IS SHOWN ON PLANS. FIXTURES, SWITCHES AND NSORS NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOLITION.                                                                                                                                                               |  |  |  |  |
| RE                  | <ol> <li>MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED FOR<br/>RELOCATION, SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM THE SITE,<br/>UON.</li> </ol>                                                                                                                             |  |  |  |  |
|                     |                                                                                                                                                                                                                                                                                                   |  |  |  |  |
| K                   | EYED NOTES                                                                                                                                                                                                                                                                                        |  |  |  |  |
| $\langle 1 \rangle$ | EXIT LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM<br>FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE.                                                                       |  |  |  |  |
| 2                   | LAY-IN LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED OR TO SOURCE IF NO OTHER LIGHTS<br>ARE ON CIRCUIT. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING<br>DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.                      |  |  |  |  |
| 3                   | SWITCH: REMOVE SWITCH, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO FIXTURE.                                                                                                                                                                                                              |  |  |  |  |
| 4                   | SWITCH: REMOVE SWITCH, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO FIXTURE, FIXTURE AND LIGHTING CIRCUIT MUST BE PROTECTED.                                                                                                                                                              |  |  |  |  |
| 5                   | RECESSED CANS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM<br>FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE.                                                                     |  |  |  |  |
| 6                   | CEILING SPEAKERS: REMOVE SPEAKER, REMOVE SPEAKER WIRE TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED, ALL SPEAKERS NOT BEING<br>DEMOLISHED MUST REMAIN OPERATION AFTER DEMOLITION IS COMPLETE.                                                                                                 |  |  |  |  |
| $\langle 7 \rangle$ | WAP: REMOVE AND DELIVER TO OWNER, REMOVE CABLE TO SOURCE.                                                                                                                                                                                                                                         |  |  |  |  |
| 8                   | CEILING MOUNTED LIGHTING CONTROLS: REMOVE CONDUIT AND CONDUCTORS<br>TO NEAREST CONTROL NOT BEING DEMOLISHED, CEILING CONTROLS AND<br>LIGHTING CIRCUIT NOT BEING DEMOLISHED MUST BE PROTECTED DURING<br>DEMOLITION.                                                                                |  |  |  |  |
| 9                   | PENDANT FIXTURE: REMOVE LIGHT AND PROTECT FOR REUSE, REMOVE<br>LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED. ALL<br>UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST<br>REMAIN OPERATIONAL AFTER DEMOLITION IS COMPLETE.                                             |  |  |  |  |
| (10)                | WALL SCONCE: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM<br>FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE.                                                                       |  |  |  |  |
| (11)                | STRIP LIGHT: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM<br>FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE.                                                                       |  |  |  |  |
| (12)                | RECESSED CAN: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM<br>FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE. SEE LIGHTING PLAN E402 FOR REVISED LIGHTING<br>LAYOUT AND SWITCHING. |  |  |  |  |
| (13)                | CEILING MOUNTED OCCUPANCY SENSORS: REMOVE SENSOR, REMOVE CABLE TO NEAREST JUNCTION POINT.                                                                                                                                                                                                         |  |  |  |  |
|                     | PROTECT J2 FIXTURES LOCATED ON TOP OF BULKHEAD.                                                                                                                                                                                                                                                   |  |  |  |  |
| (15)                | PROTECT (1) J2 FIXTURES, REMOVE (2) J2 FIXTURE AND (1) J4 FIXTURE LOCATED ON TOP OF BULKHEAD, SEE A2 / EL401 FOR NEW SWITCHING SCHEME.                                                                                                                                                            |  |  |  |  |

| WORK THIS AREA $7$ |  |
|--------------------|--|
| /                  |  |

6



## CITY OF WILMINGTON



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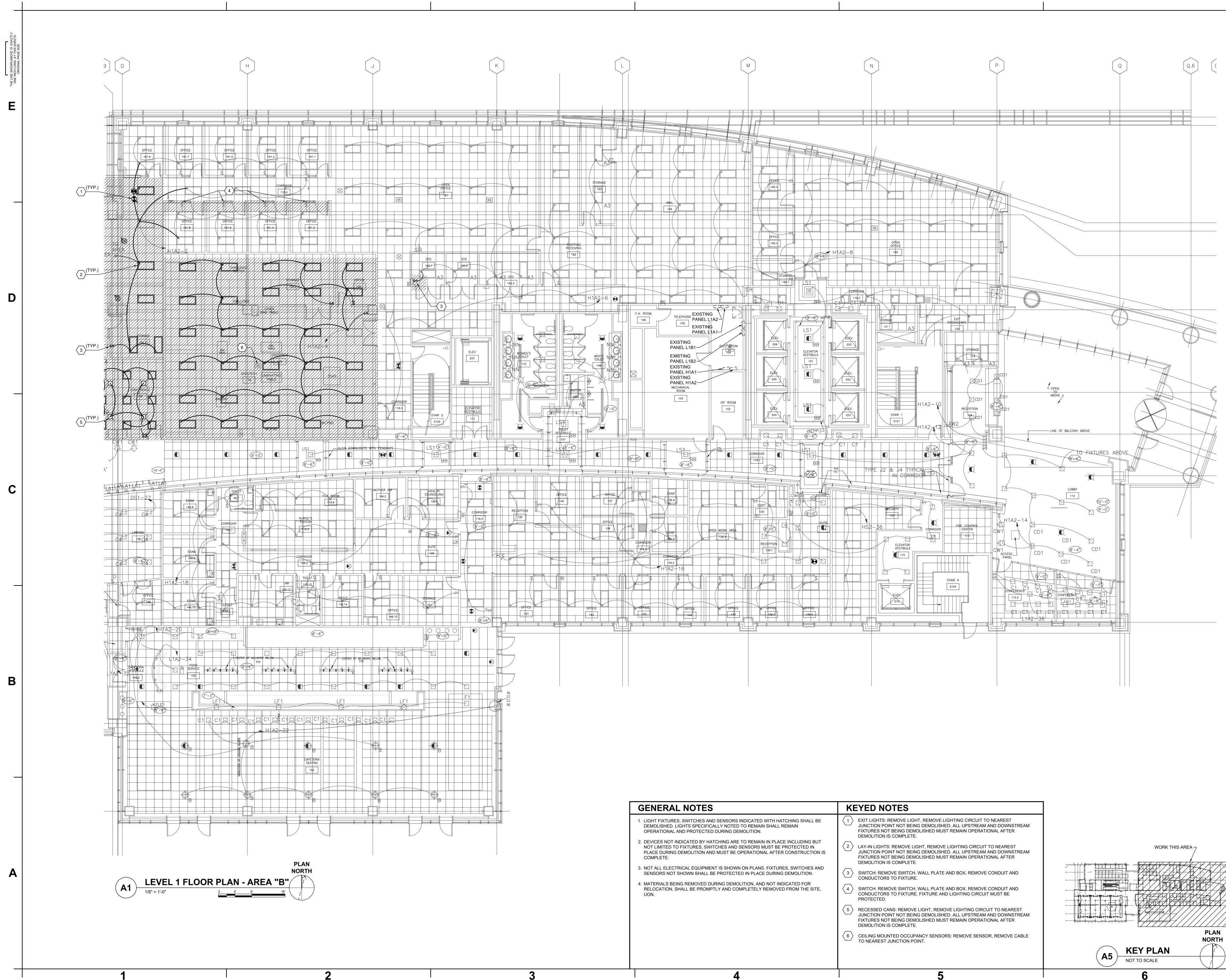


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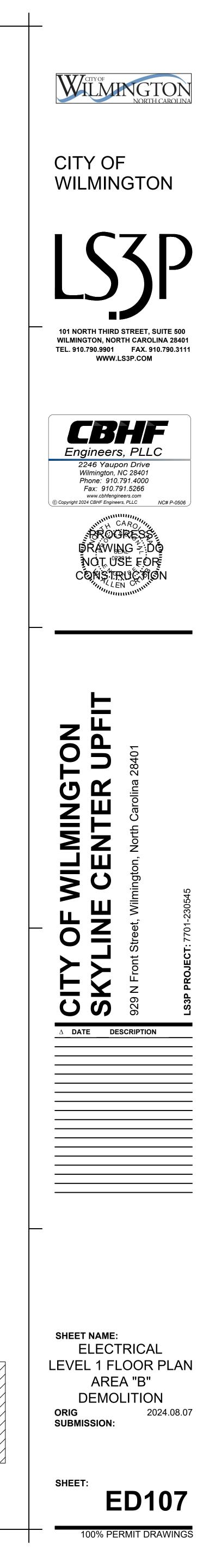


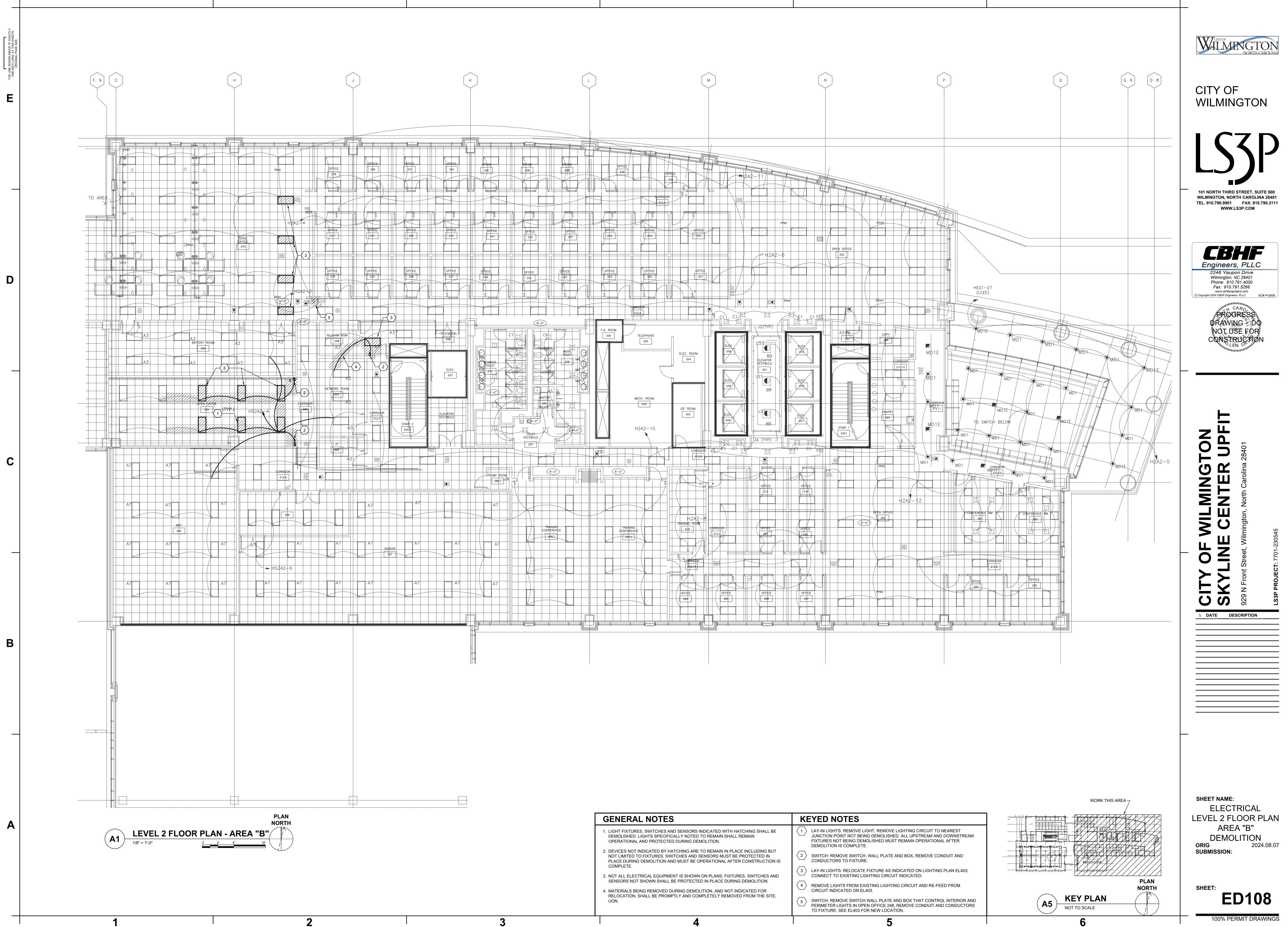


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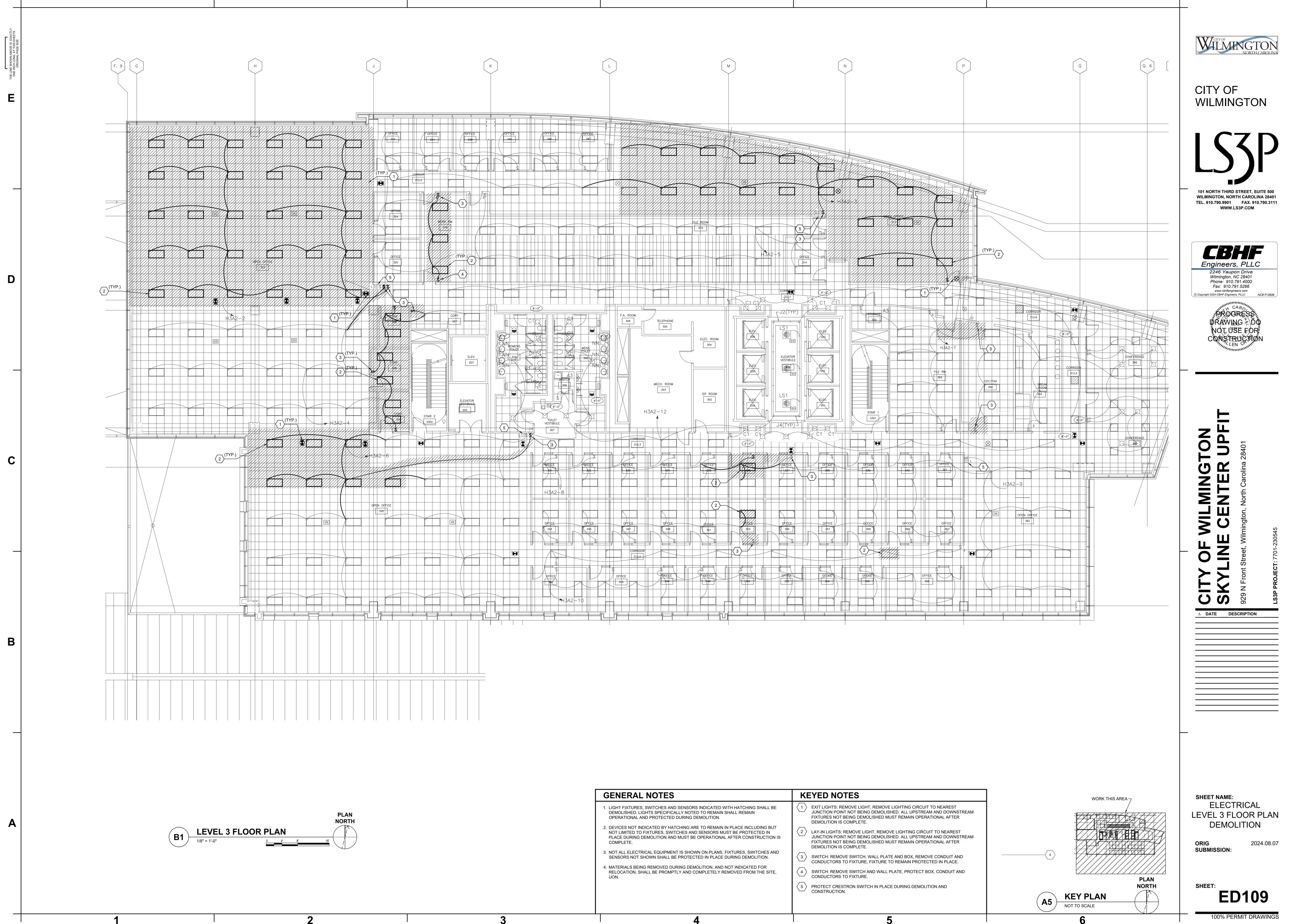
|                                                     | KEYED NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| NG SHALL BE<br>IN                                   | 1 EXIT LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM<br>FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE.                                                                                                                                                                                                                                                                               |                             |
| CLUDING BUT<br>ECTED IN<br>INSTRUCTION IS           | 2 LAY-IN LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM<br>FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE.                                                                                                                                                                                                                                                                             |                             |
| WITCHES AND<br>IOLITION.<br>TED FOR<br>OM THE SITE, | <ul> <li>3 SWITCH: REMOVE SWITCH, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO FIXTURE.</li> <li>4 SWITCH: REMOVE SWITCH, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO FIXTURE, FIXTURE AND LIGHTING CIRCUIT MUST BE PROTECTED.</li> <li>5 RECESSED CANS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER DEMOLISHED MUST REMAIN OPERATIONAL AFTER</li> </ul> |                             |
|                                                     | DEMOLITION IS COMPLETE.<br>6 CEILING MOUNTED OCCUPANCY SENSORS: REMOVE SENSOR, REMOVE CABLE<br>TO NEAREST JUNCTION POINT.                                                                                                                                                                                                                                                                                                                                                                                   | A5 KEY PLAN<br>NOT TO SCALE |



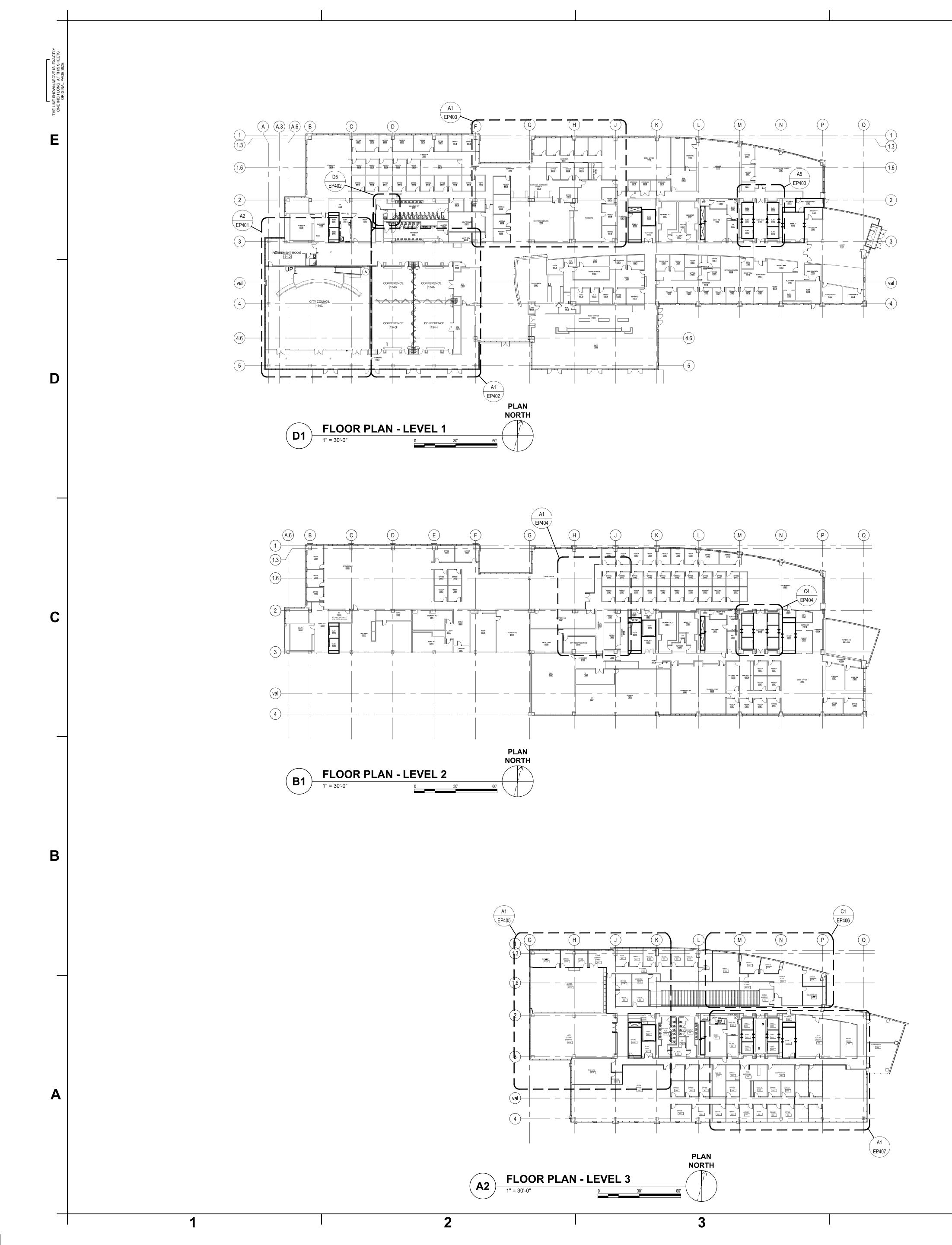


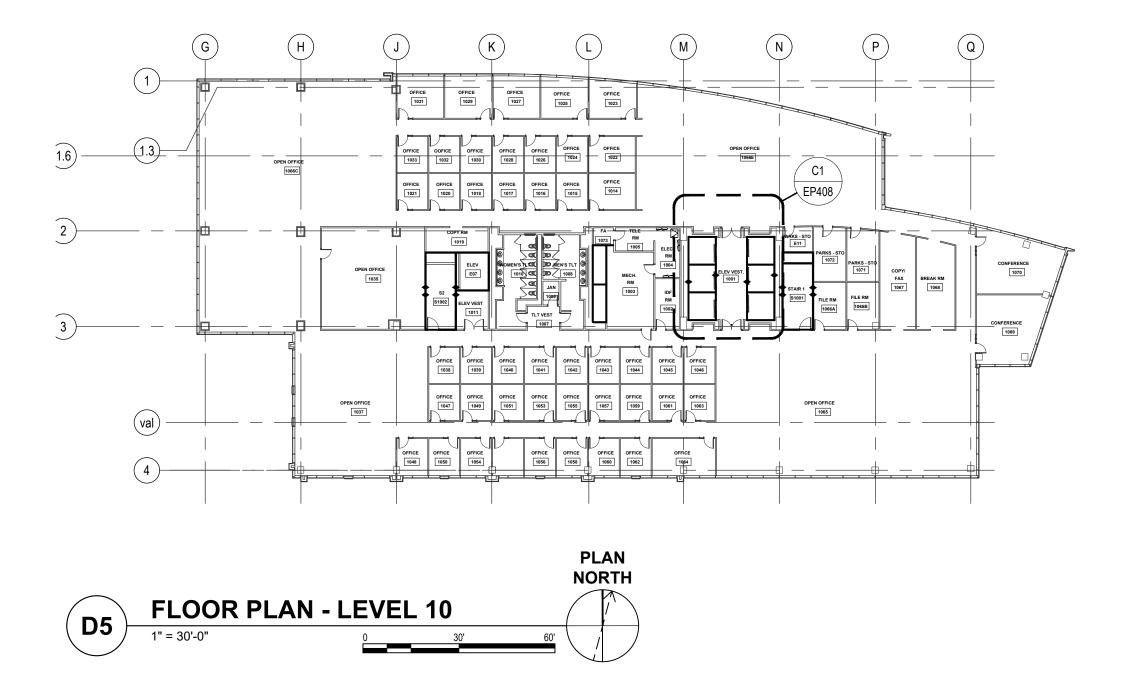
| GENERAL NOTES                                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. LIGHT FIXTURES, SWITCHES AND SENSORS INDICATED WITH HATCHING<br>DEMOLISHED. LIGHTS SPECIFICALLY NOTED TO REMAIN SHALL REMAIN<br>OPERATIONAL AND PROTECTED DURING DEMOLITION.                               |
| 2. DEVICES NOT INDICATED BY HATCHING ARE TO REMAIN IN PLACE INCLU<br>NOT LIMITED TO FIXTURES, SWITCHES AND SENSORS MUST BE PROTEC<br>PLACE DURING DEMOLITION AND MUST BE OPERATIONAL AFTER CONST<br>COMPLETE. |
| 3. NOT ALL ELECTRICAL EQUIPMENT IS SHOWN ON PLANS. FIXTURES, SWIT<br>SENSORS NOT SHOWN SHALL BE PROTECTED IN PLACE DURING DEMOL                                                                               |
| 4. MATERIALS BEING REMOVED DURING DEMOLITION, AND NOT INDICATED<br>RELOCATION SHALL BE PROMPTLY AND COMPLETELY REMOVED FROM                                                                                   |

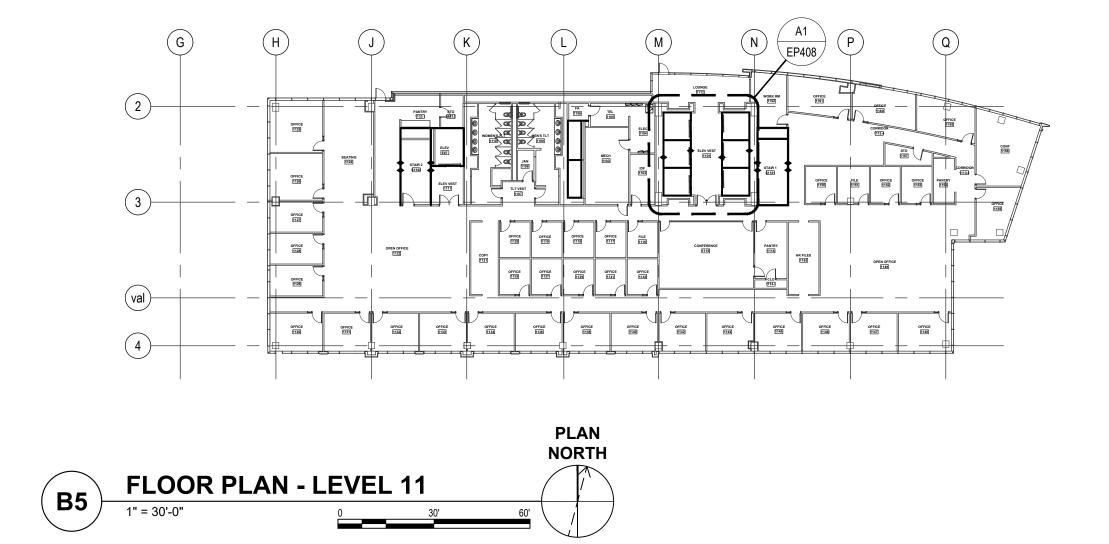
|                                        |                                                                                                                                                                                                                                 | WORK THIS AREA |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                                        | KEYED NOTES                                                                                                                                                                                                                     |                |
| IG SHALL BE<br>N                       | 1 LAY-IN LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM<br>FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE. |                |
| LUDING BUT<br>ECTED IN<br>STRUCTION IS | 2 SWITCH: REMOVE SWITCH, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO FIXTURE.                                                                                                                                          |                |
| VITCHES AND                            | 3 LAY-IN LIGHTS: RELOCATE FIXTURE AS INDICATED ON LIGHTING PLAN EL403, CONNECT TO EXISTING LIGHTING CIRCUIT INDICATED.                                                                                                          |                |
| OLITION.<br>ED FOR                     | 4 REMOVE LIGHTS FROM EXISTING LIGHTING CIRCUIT AND RE-FEED FROM CIRCUIT INDICATED ON EL403.                                                                                                                                     | PLA<br>NOR     |
| M THE SITE,                            | 5 SWITCH: REMOVE SWITCH WALL PLATE AND BOX THAT CONTROL INTERIOR AND PERIMETER LIGHTS IN OPEN OFFICE 248, REMOVE CONDUIT AND CONDUCTORS TO FIXTURE. SEE EL403 FOR NEW LOCATION.                                                 | A5 KEY PLAN    |
|                                        | E                                                                                                                                                                                                                               | C              |

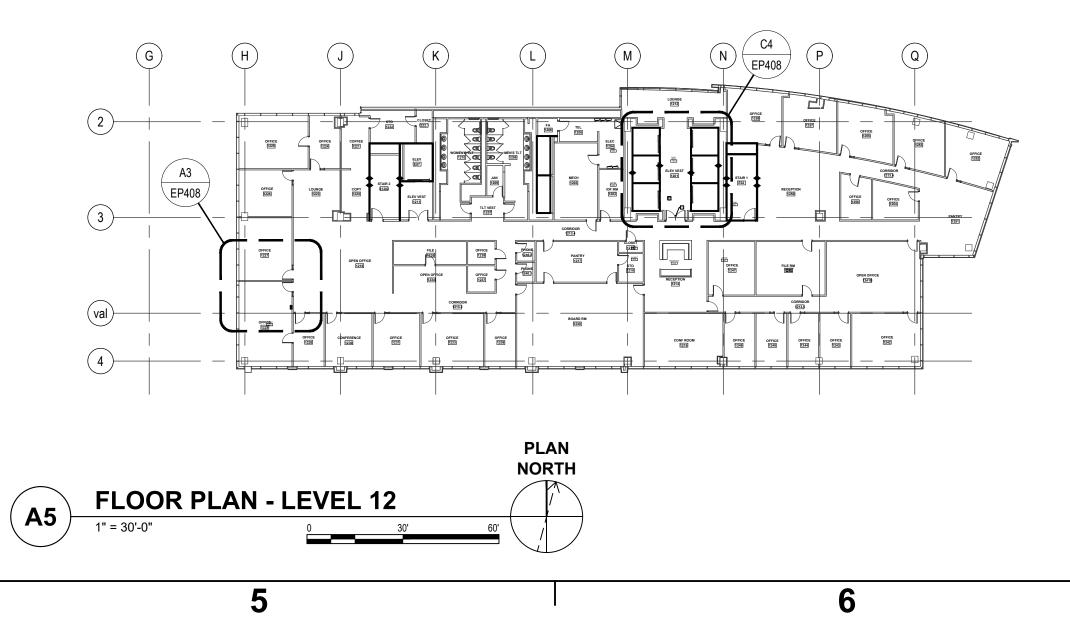


|                                     | KEYED NOTES                                                                                                                                                                                                                     |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SHALL BE                            | 1 EXIT LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM<br>FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE.   |
| JDING BUT<br>CTED IN<br>IRUCTION IS | 2 LAY-IN LIGHTS: REMOVE LIGHT, REMOVE LIGHTING CIRCUIT TO NEAREST<br>JUNCTION POINT NOT BEING DEMOLISHED. ALL UPSTREAM AND DOWNSTREAM<br>FIXTURES NOT BEING DEMOLISHED MUST REMAIN OPERATIONAL AFTER<br>DEMOLITION IS COMPLETE. |
| TCHES AND<br>LITION.                | 3 SWITCH: REMOVE SWITCH, WALL PLATE AND BOX, REMOVE CONDUIT AND CONDUCTORS TO FIXTURE, FIXTURE TO REMAIN PROTECTED IN PLACE.                                                                                                    |
| D FOR<br>THE SITE,                  | 4 SWITCH: REMOVE SWITCH AND WALL PLATE, PROTECT BOX, CONDUIT AND CONDUCTORS TO FIXTURE.                                                                                                                                         |
|                                     | 5 PROTECT CRESTRON SWITCH IN PLACE DURING DEMOLITION AND CONSTRUCTION.                                                                                                                                                          |
|                                     |                                                                                                                                                                                                                                 |

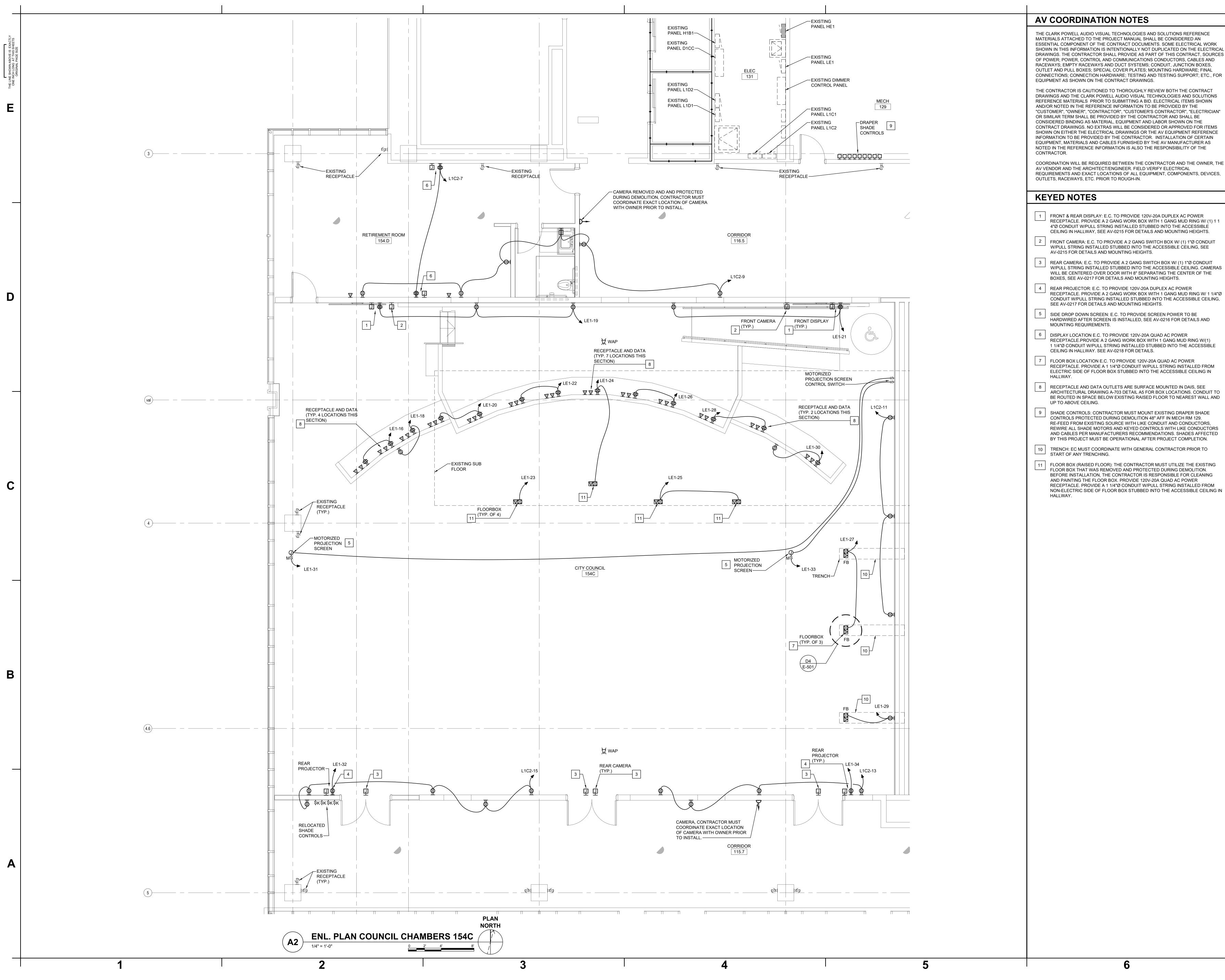


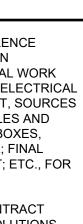














# CITY OF WILMINGTON



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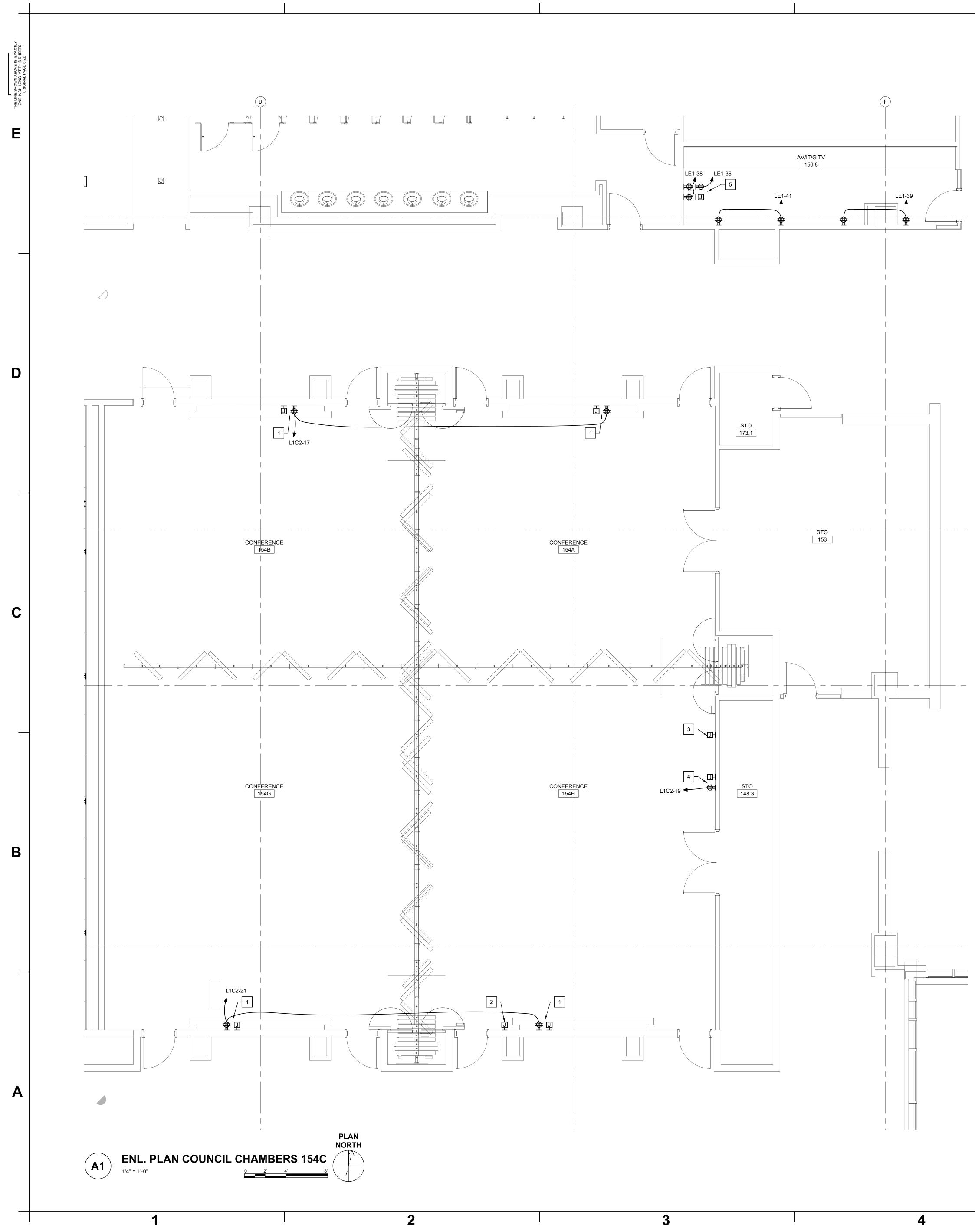


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### **AV COORDINATION NOTES**

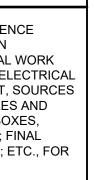
THE CLARK POWELL AUDIO VISUAL TECHNOLOGIES AND SOLUTIONS REFERENCE MATERIALS ATTACHED TO THE PROJECT MANUAL SHALL BE CONSIDERED AN ESSENTIAL COMPONENT OF THE CONTRACT DOCUMENTS. SOME ELECTRICAL WORK SHOWN IN THIS INFORMATION IS INTENTIONALLY NOT DUPLICATED ON THE ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL PROVIDE AS PART OF THIS CONTRACT, SOURCES OF POWER; POWER, CONTROL AND COMMUNICATIONS CONDUCTORS, CABLES AND RACEWAYS; EMPTY RACEWAYS AND DUCT SYSTEMS; CONDUIT, JUNCTION BOXES, OUTLET AND PULL BOXES; SPECIAL COVER PLATES; MOUNTING HARDWARE; FINAL CONNECTIONS; CONNECTION HARDWARE; TESTING AND TESTING SUPPORT; ETC., FOR EQUIPMENT AS SHOWN ON THE CONTRACT DRAWINGS.

THE CONTRACTOR IS CAUTIONED TO THOROUGHLY REVIEW BOTH THE CONTRACT DRAWINGS AND THE CLARK POWELL AUDIO VISUAL TECHNOLOGIES AND SOLUTIONS REFERENCE MATERIALS PRIOR TO SUBMITTING A BID. ELECTRICAL ITEMS SHOWN AND/OR NOTED IN THE REFERENCE INFORMATION TO BE PROVIDED BY THE "CUSTOMER", "OWNER", "CONTRACTOR", "CUSTOMER'S CONTRACTOR", "ELECTRICIAN" OR SIMILAR TERM SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE CONSIDERED BINDING AS MATERIAL, EQUIPMENT AND LABOR SHOWN ON THE CONTRACT DRAWINGS. NO EXTRAS WILL BE CONSIDERED OR APPROVED FOR ITEMS SHOWN ON EITHER THE ELECTRICAL DRAWINGS OR THE AV EQUIPMENT REFERENCE INFORMATION TO BE PROVIDED BY THE CONTRACTOR. INSTALLATION OF CERTAIN EQUIPMENT, MATERIALS AND CABLES FURNISHED BY THE AV MANUFACTURER AS NOTED IN THE REFERENCE INFORMATION IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR.

COORDINATION WILL BE REQUIRED BETWEEN THE CONTRACTOR AND THE OWNER, THE AV VENDOR AND THE ARCHITECT/ENGINEER. FIELD VERIFY ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL EQUIPMENT, COMPONENTS, DEVICES, OUTLETS, RACEWAYS, ETC. PRIOR TO ROUGH-IN.

#### **KEYED NOTES**

- 1 DISPLAY: E.C. TO PROVIDE 120V-20A QUAD AC POWER RECEPTACLE. PROVIDE A 2 GANG WORK BOX WITH 1 GANG MUD RING W/(1) 1 1/4"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY. SEE AV-0305 DETAIL 1 FOR DETAILS AND MOUNTING REQUIREMENTS. 2 FRONT CAMERA: E.C. TO PROVIDE A 2 GANG SWITCH BOX W/ (1) 1"Ø CONDUIT (W/PULL STRING INSTALLED) STUBBED INTO THE ACCESSIBLE CEILING. SEE
- AV-0220 FOR DETAILS.
- 3 SIDE CAMERA: E.C. TO PROVIDE A 2 GANG SWITCH BOX W/ (1) 1"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING. SEE AV-0220 FOR DETAILS.
- 4 CONTROL DESK: E.C. TO PROVIDE 120V-20A QUAD AC POWER RECEPTACLE. PROVIDE A 5 GANG WORK BOX WITH 4 GANG MUD RING W/(2) 1 1/4"Ø CONDUITS W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY. SEE AV-0220 FOR DETAILS.
- 5 DISPLAY: E.C. TO PROVIDE 120V-20A QUAD AC POWER RECEPTACLE. PROVIDE A 2 GANG WORK BOX WITH 1 GANG MUD RING W/(1) 1 1/4"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING IN HALLWAY. SEE AV-0218 FOR DETAILS.





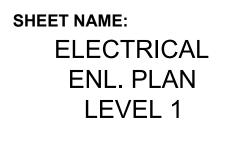
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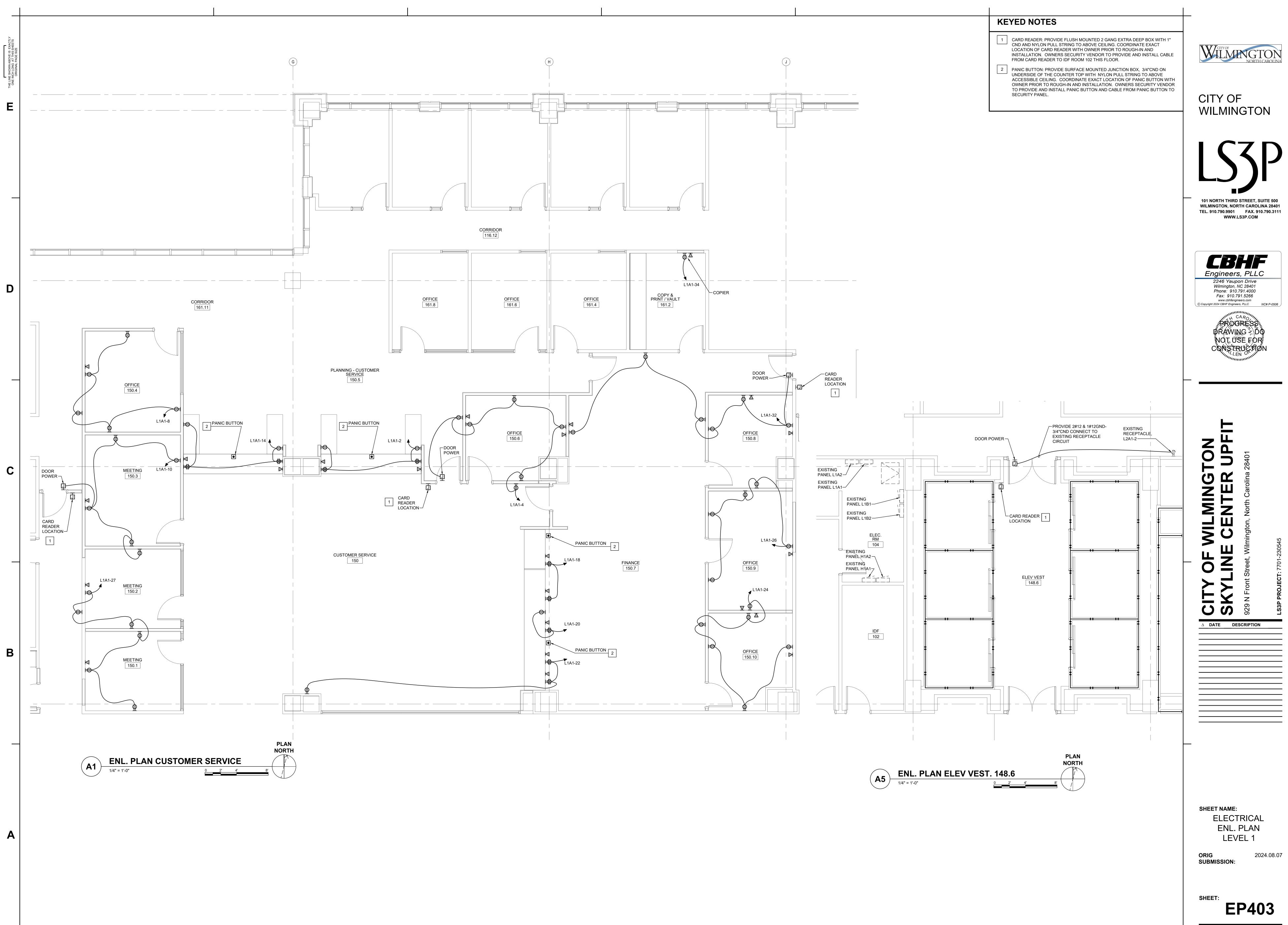


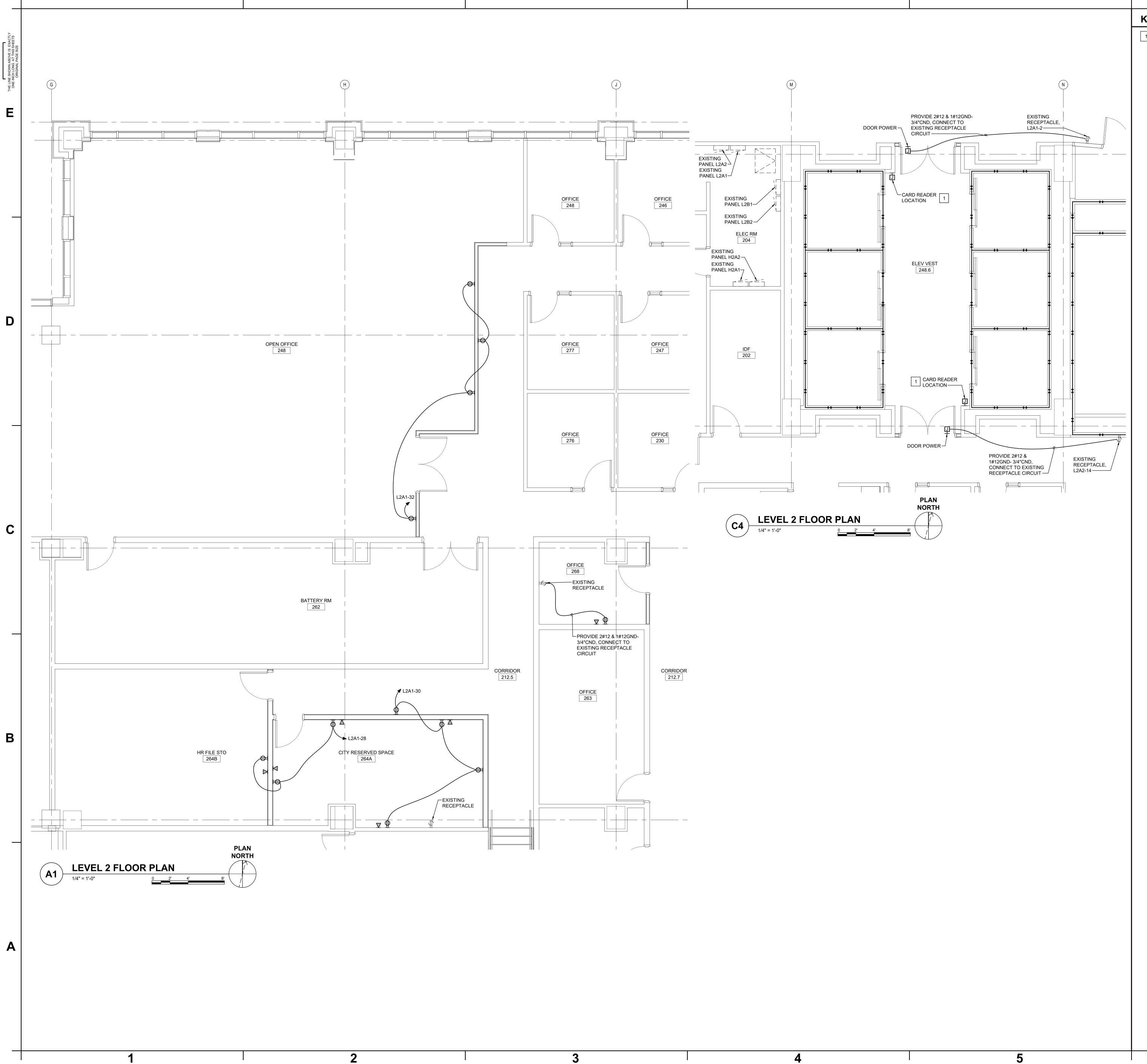
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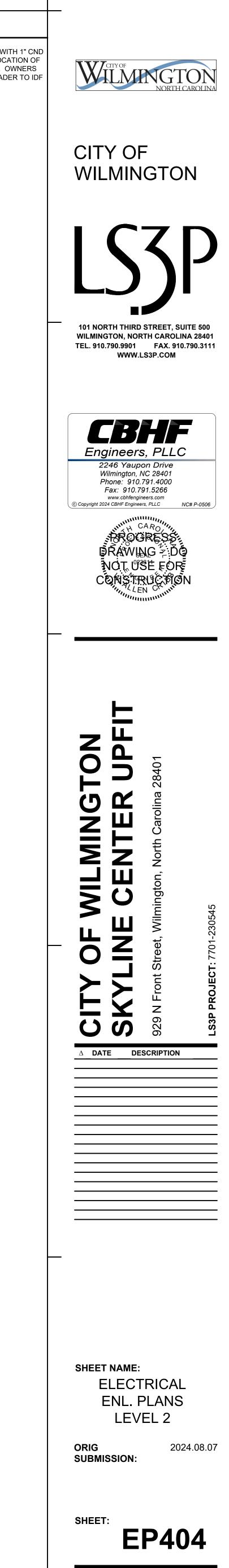
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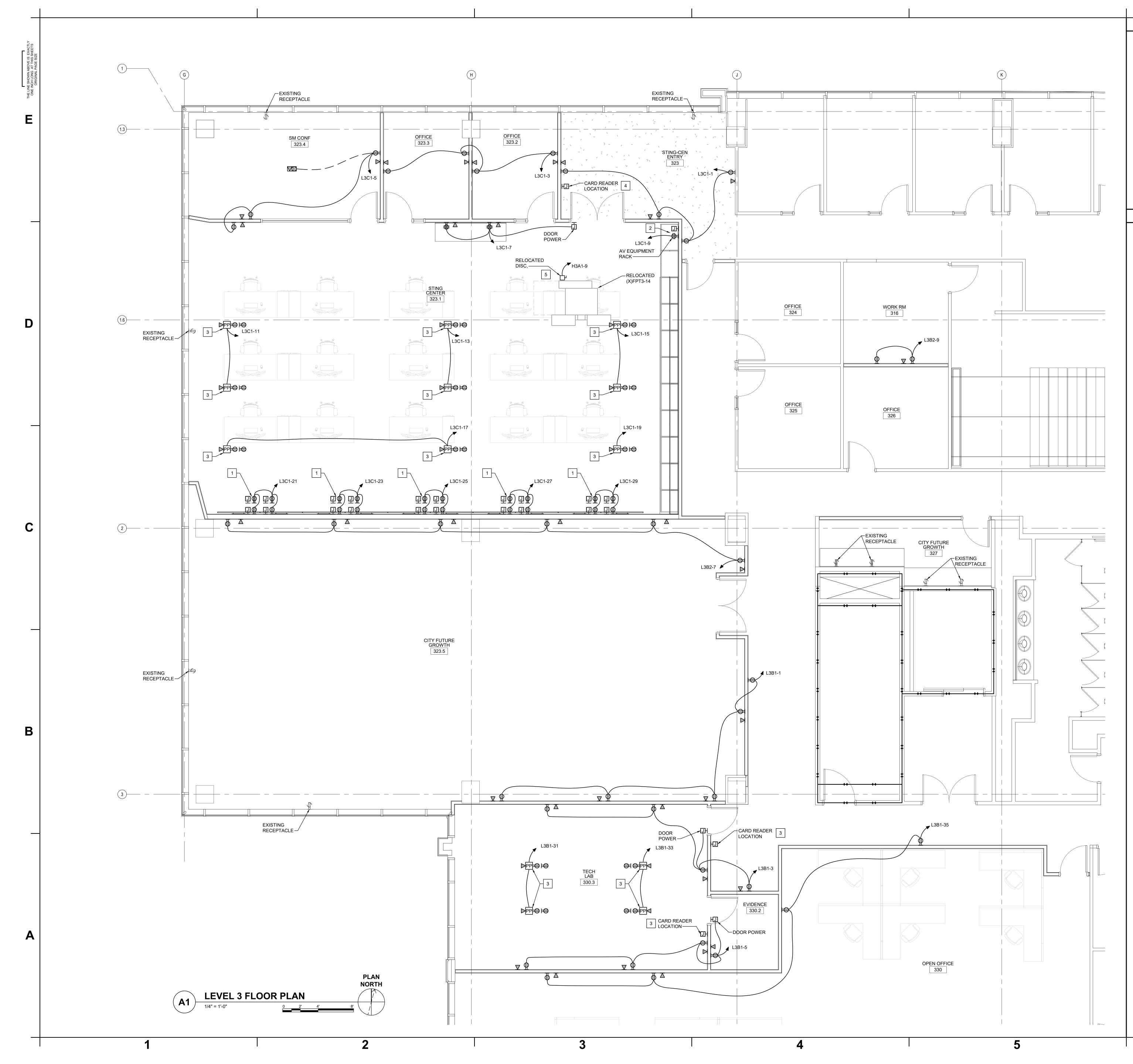




## **KEYED NOTES**

CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF ROOM 202 THIS FLOOR.





## **AV COORDINATION NOTES**

THE CLARK POWELL AUDIO VISUAL TECHNOLOGIES AND SOLUTIONS REFERENCE MATERIALS ATTACHED TO THE PROJECT MANUAL SHALL BE CONSIDERED AN ESSENTIAL COMPONENT OF THE CONTRACT DOCUMENTS. SOME ELECTRICAL WORK SHOWN IN THIS INFORMATION IS INTENTIONALLY NOT DUPLICATED ON THE ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL PROVIDE AS PART OF THIS CONTRACT, SOURCES OF POWER; POWER, CONTROL AND COMMUNICATIONS CONDUCTORS, CABLES AND RACEWAYS; EMPTY RACEWAYS AND DUCT SYSTEMS; CONDUIT, JUNCTION BOXES, OUTLET AND PULL BOXES; SPECIAL COVER PLATES; MOUNTING HARDWARE; FINAL CONNECTIONS; CONNECTION HARDWARE; TESTING AND TESTING SUPPORT; ETC., FOR EQUIPMENT AS SHOWN ON THE CONTRACT DRAWINGS.

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#### **KEYED NOTES**

- 1 DISPLAY: E.C. TO PROVIDE 120V-20A DUPLEX AC POWER RECEPTACLE (TYPICAL ALL 20 LOCATIONS). PROVIDE A 2 GANG WORK BOX WITH 1 GANG MUD RING W/ (1) 1"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING ABOVE TOP ROW OF DISPLAY, PROVIDE 1"Ø CONDUIT W/PULL STRING INSTALLED FROM BOTTOM OF TOP BOX TO TOP OF LOWER BOX, SEE AV-0301 FOR DETAILS AND MOUNTING HEIGHTS.
- 2 AV RACK EQUIPMENT: E.C. TO PROVIDE DEDICATED 120V-20A QUAD AC POWER RECEPTACLE. PROVIDE A FLUSH MOUNTED 8X8 NEMA RATED PULL BOX WITH (2) 2"Ø CONDUIT W/PULL STRING INSTALLED STUBBED INTO THE ACCESSIBLE CEILING SEE AV-0206 FOR DETAILS AND MOUNTING HEIGHTS.
- 3 POWER POLE: PROVIDE 10'-0" EXTRUDED ALUMINUM POWER POLE, 2-CHANNELS WITH CEILING TRIM, ANODIZED ALUMINUM, MULTI-SERVICE, TWO-CHANNEL POLE WITH (2) STYLELINE KNOCKOUTS, (2) 20AMP RECEPTACLES. ADJUSTABLE T-BAR ASSEMBLY FOR MOUNTING POLES IN MIDDLE OF CEILING. UL LISTED. EACH POWER POLE SHOWN ON PLAN SHALL HAVE PROVISIONS FOR (4) DATA DROPS. HUBBEL CAT.# HPS10A OR EQUAL.
- 4 CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF ROOM 302 THIS FLOOR.
- 5 MECHANICAL UNIT: MOUNT EXISTING DISC, REMOVED DURING DEMOLITION ABOVE CEILING ADJACENT TO UNIT. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED TO POWER UNIT IN LOCATION INDICATED. E.C. MUST VERIFY CIRCUIT PRIOR TO INSTALL.

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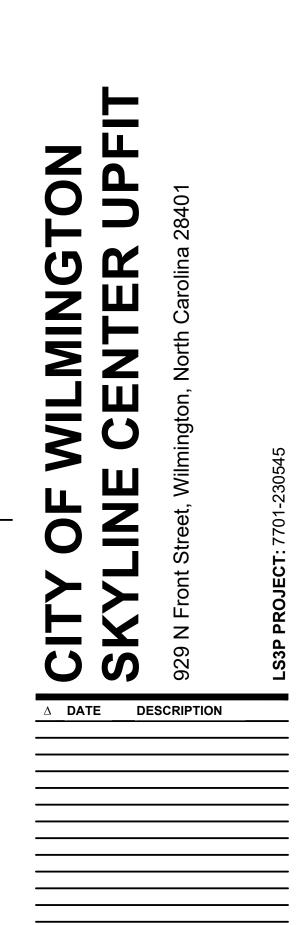


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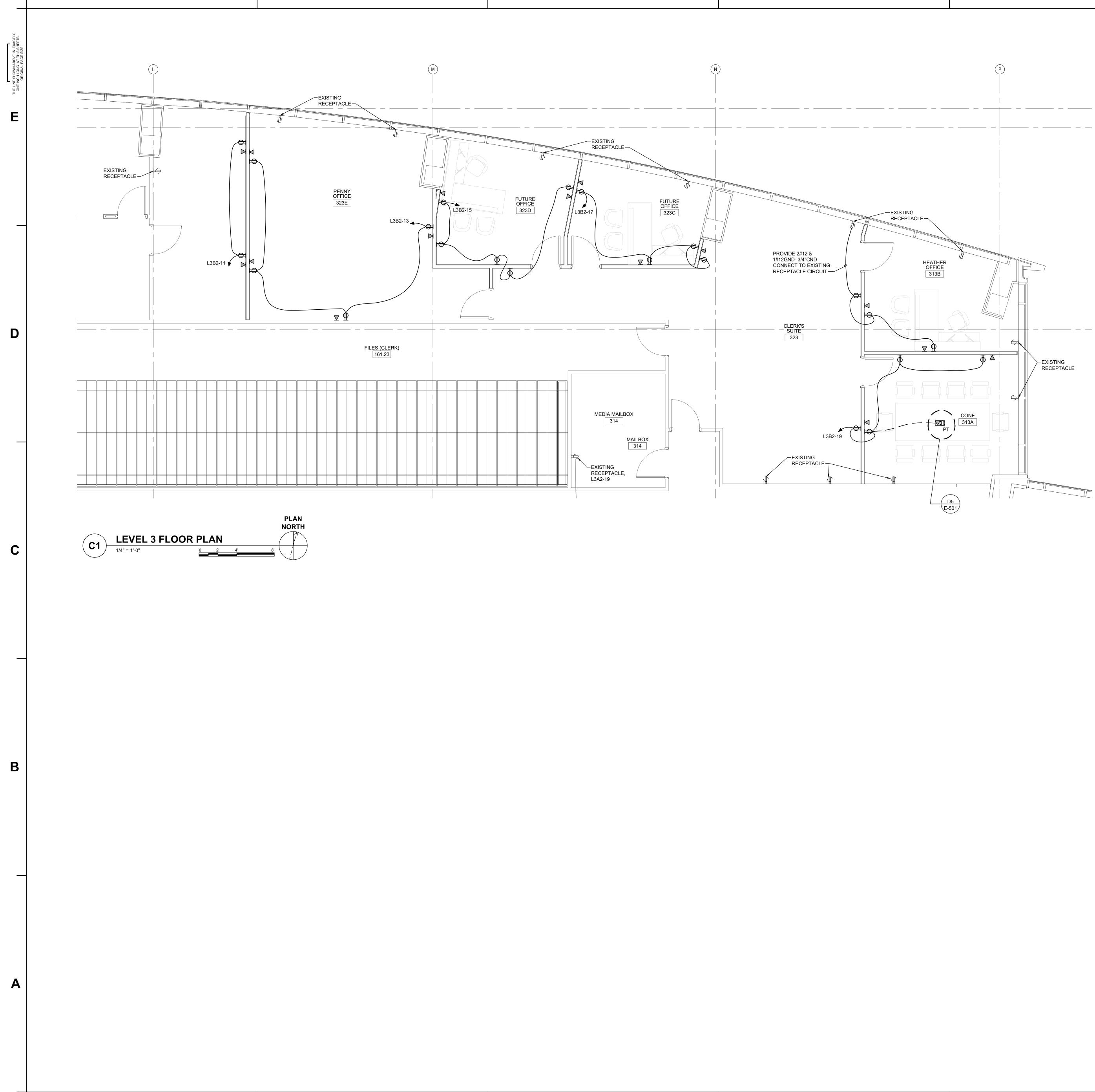


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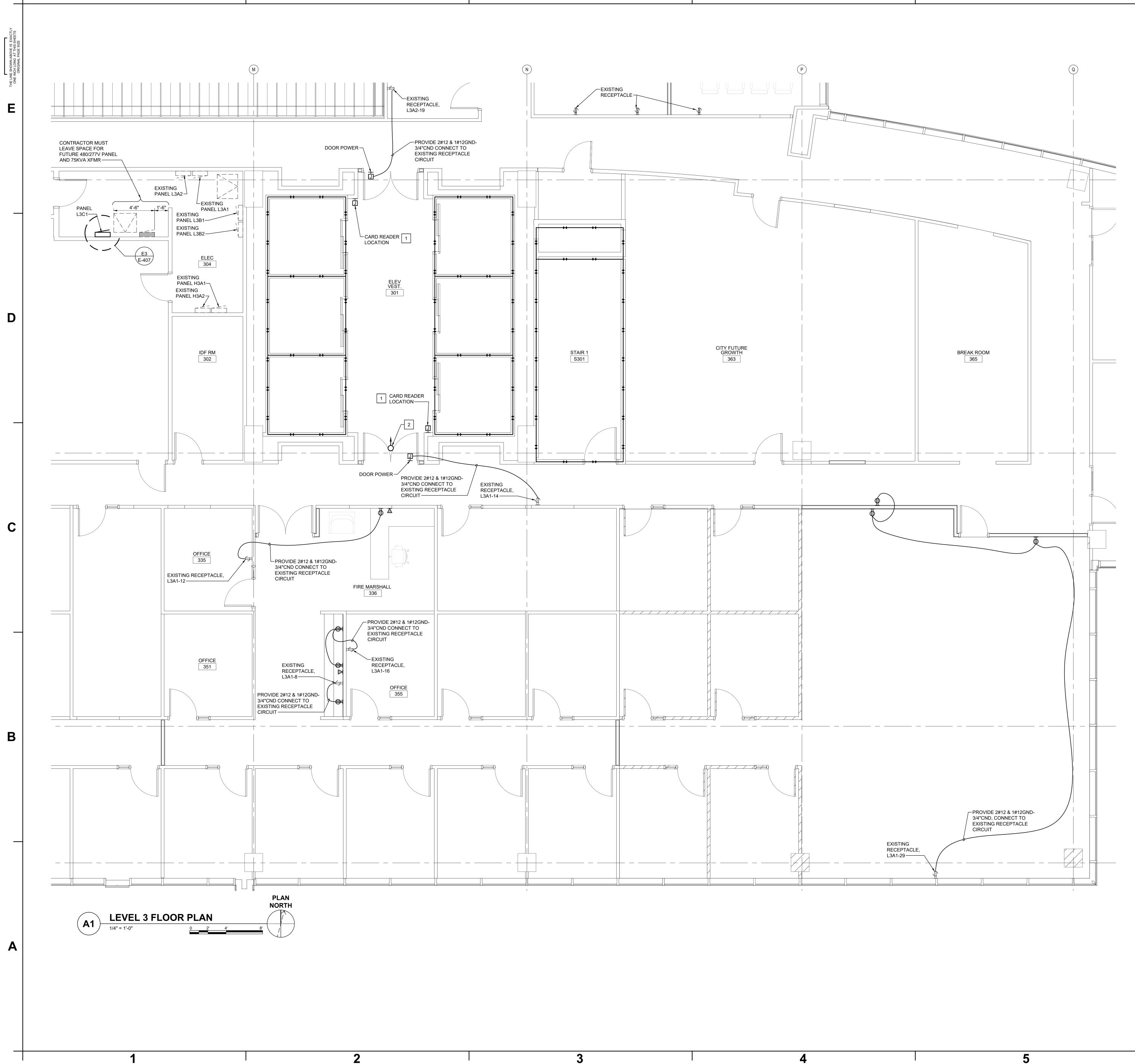


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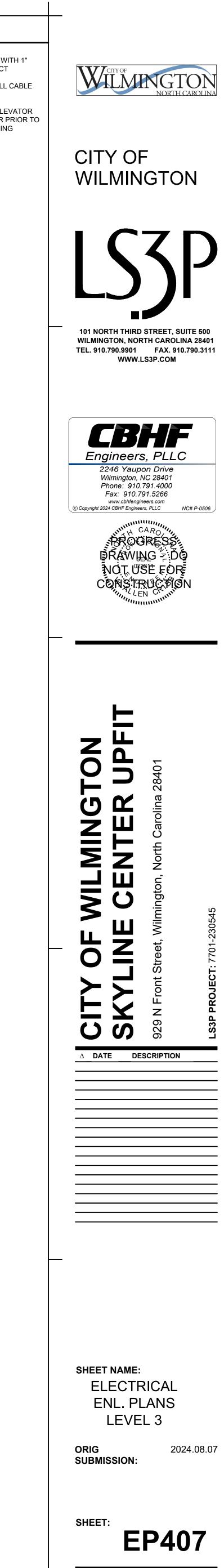


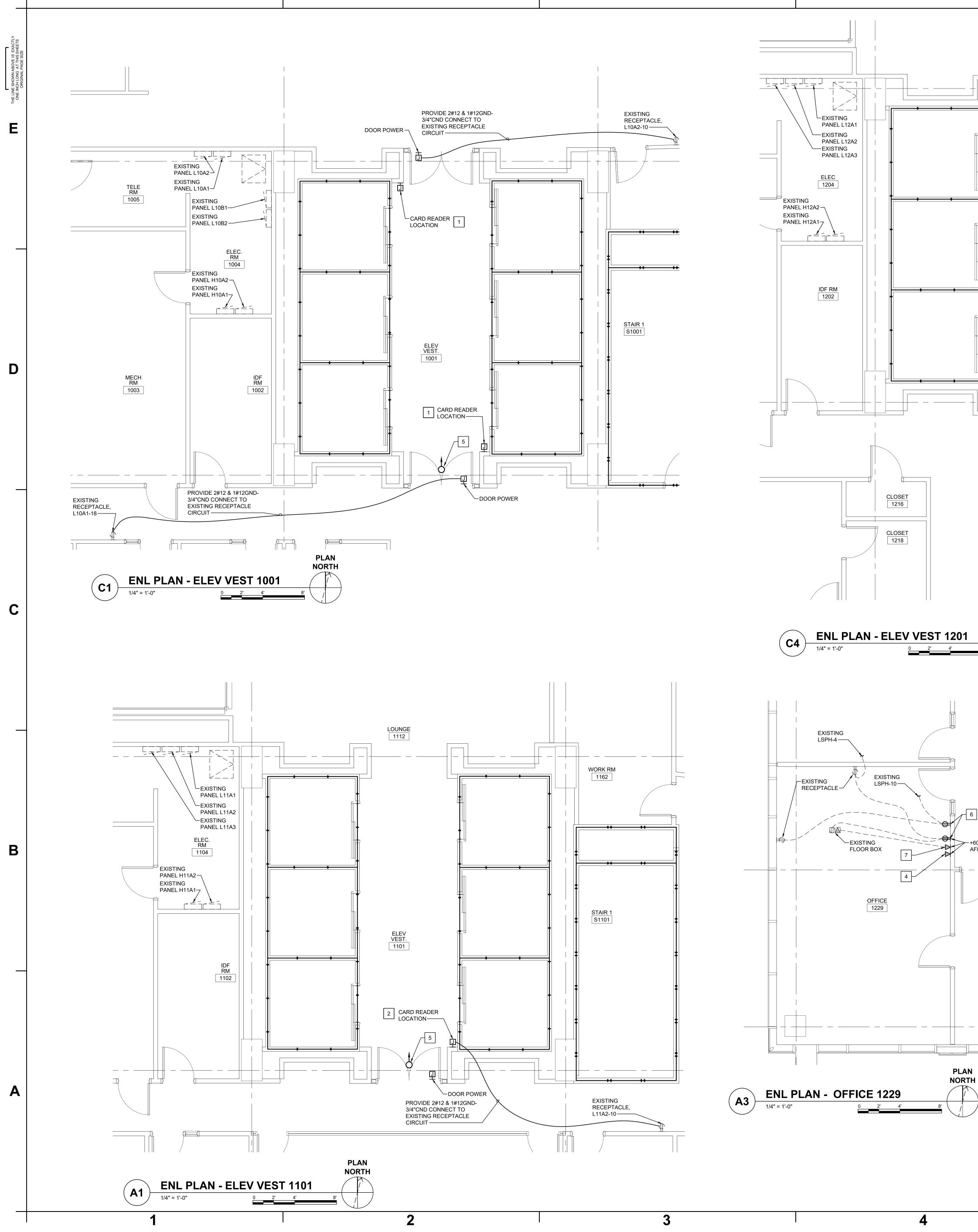
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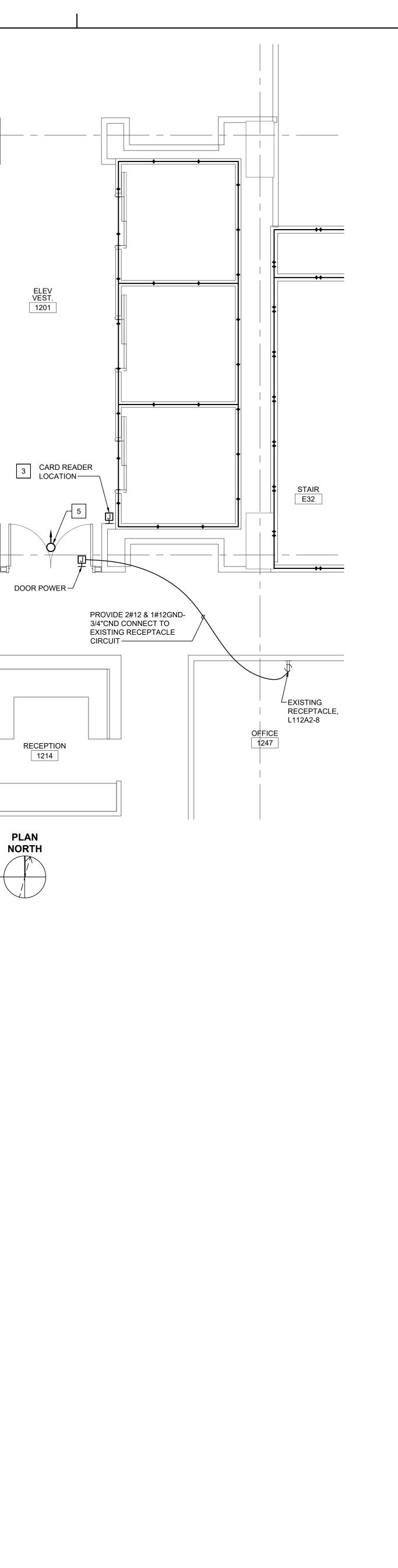
## **KEYED NOTES**

1 CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF ROOM 302 THIS FLOOR.

CAMERA: CAMERA TO BE INSTALLED ON CEILING BULKHEAD INSIDE ELEVATOR VESTIBULE. COORDINATE EXACT LOCATION OF CAMERA WITH OWNER PRIOR TO INSTALLATION, CONNECT EXISTING CAMERA CABLE PROTECTED DURING 2 DEMOLITION.







| KE | YED NOTES                                                                                                                                                                                                                                                                                                          |  |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1  | CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND<br>AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF<br>CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS<br>SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF<br>ROOM 1002 THIS FLOOR. |  |
| 2  | CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND<br>AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF<br>CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS<br>SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF<br>ROOM 1102 THIS FLOOR. |  |
| 3  | CARD READER: PROVIDE FLUSH MOUNTED 2 GANG EXTRA DEEP BOX WITH 1" CND<br>AND NYLON PULL STRING TO ABOVE CEILING. COORDINATE EXACT LOCATION OF<br>CARD READER WITH OWNER PRIOR TO ROUGH-IN AND INSTALLATION. OWNERS<br>SECURITY VENDOR TO PROVIDE AND INSTALL CABLE FROM CARD READER TO IDF<br>ROOM 1202 THIS FLOOR. |  |
| 4  | CATV: PROVIDE BOX AT 60" AFF ON WALL AND RECONNECT CATV CABLE PROTECTED ABOVE CEILING DURING DEMOLITION.                                                                                                                                                                                                           |  |
| 5  | CAMERA: CAMERA TO BE INSTALLED ON CEILING BULKHEAD INSIDE ELEVATOR<br>VESTIBULE. COORDINATE EXACT LOCATION OF CAMERA WITH OWNER PRIOR TO<br>INSTALLATION, CONNECT EXISTING CAMERA CABLE PROTECTED DURING<br>DEMOLITION.                                                                                            |  |
| 6  | RECEPTACLE: RECONNECT TO EXISTING RECEPTACLE CIRCUIT DISCONNECTED DURING DEMOLITION.                                                                                                                                                                                                                               |  |
| 7  | DATA OUTLET: PROVIDE BOX AT 60" AFF ON WALL, RECONNECT CONDUIT FROM<br>FLOOR BOX TO BOX MOUNTED AT 60" AFF, PROVIDE DATA CABLE FROM FLOOR<br>BOX TO DATA WALL BOX AND RECONNECT DATA CABLE PROTECTED ABOVE<br>CEILING DURING DEMOLITION.                                                                           |  |

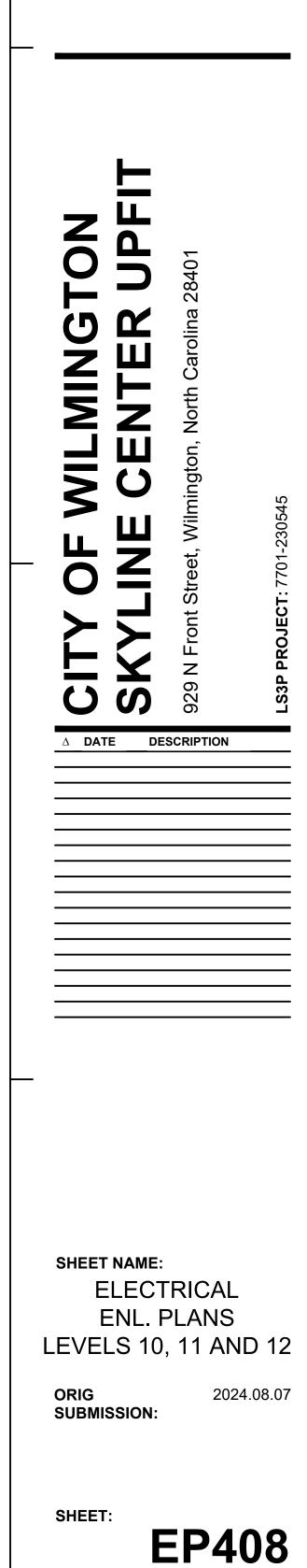


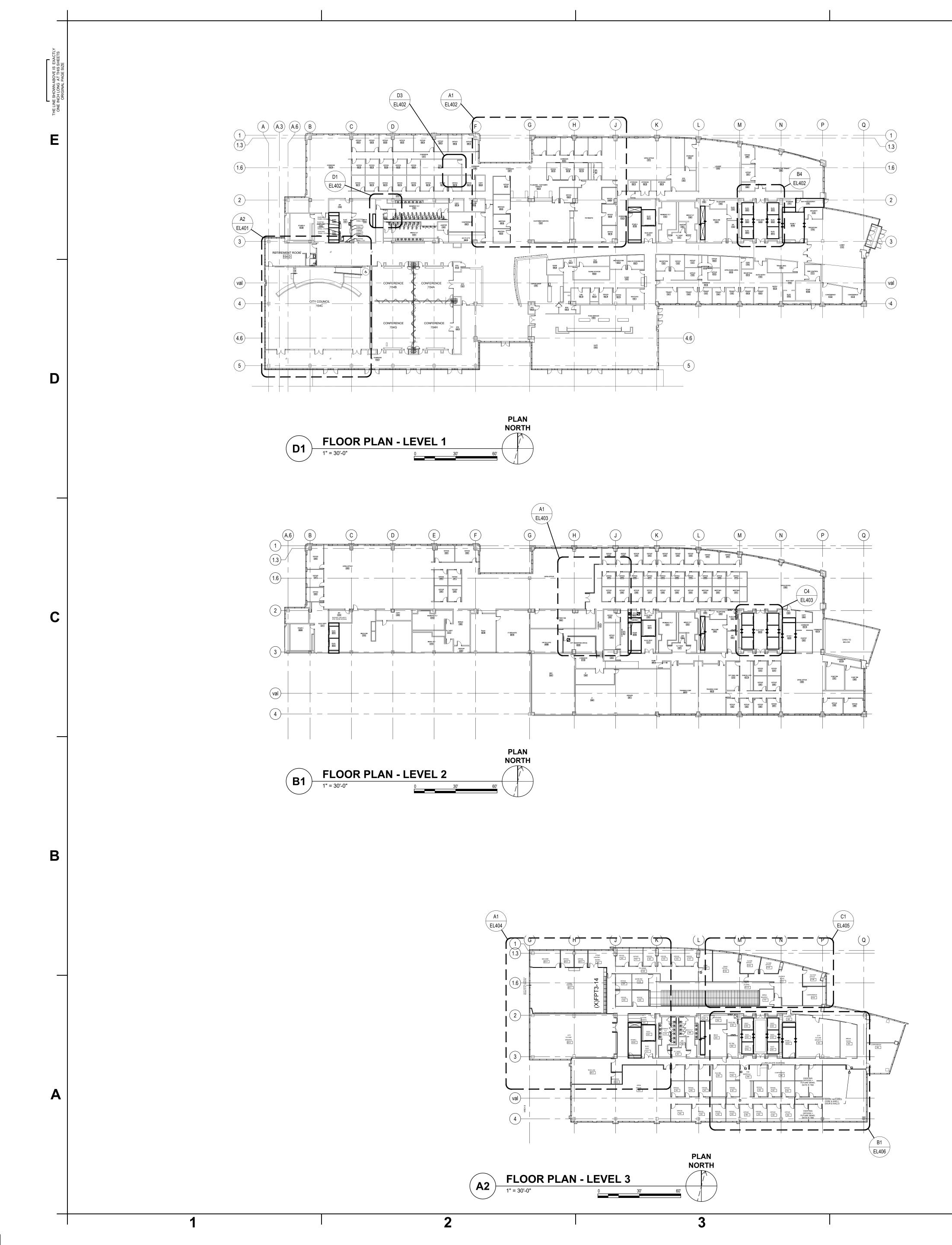
# CITY OF WILMINGTON



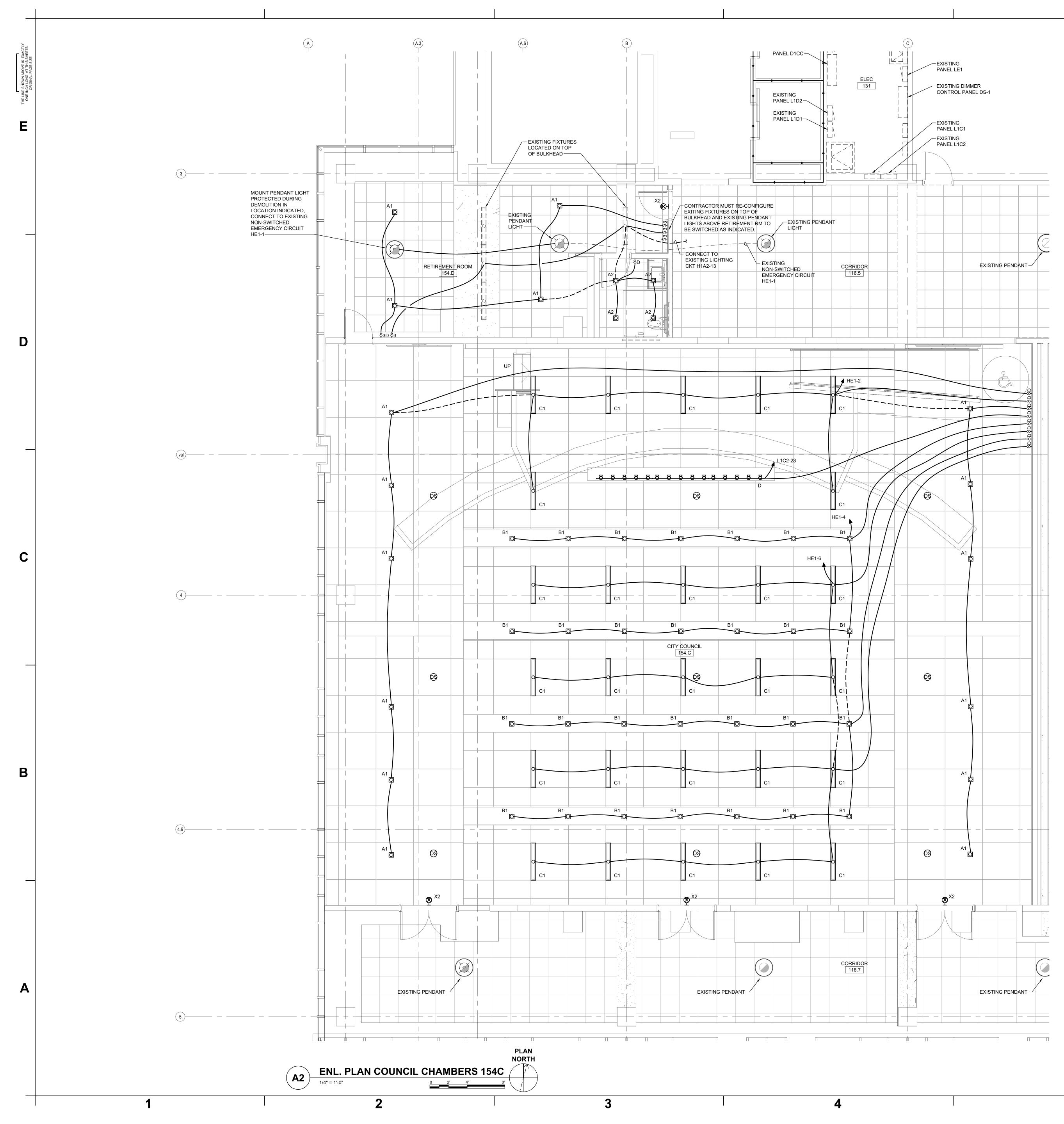
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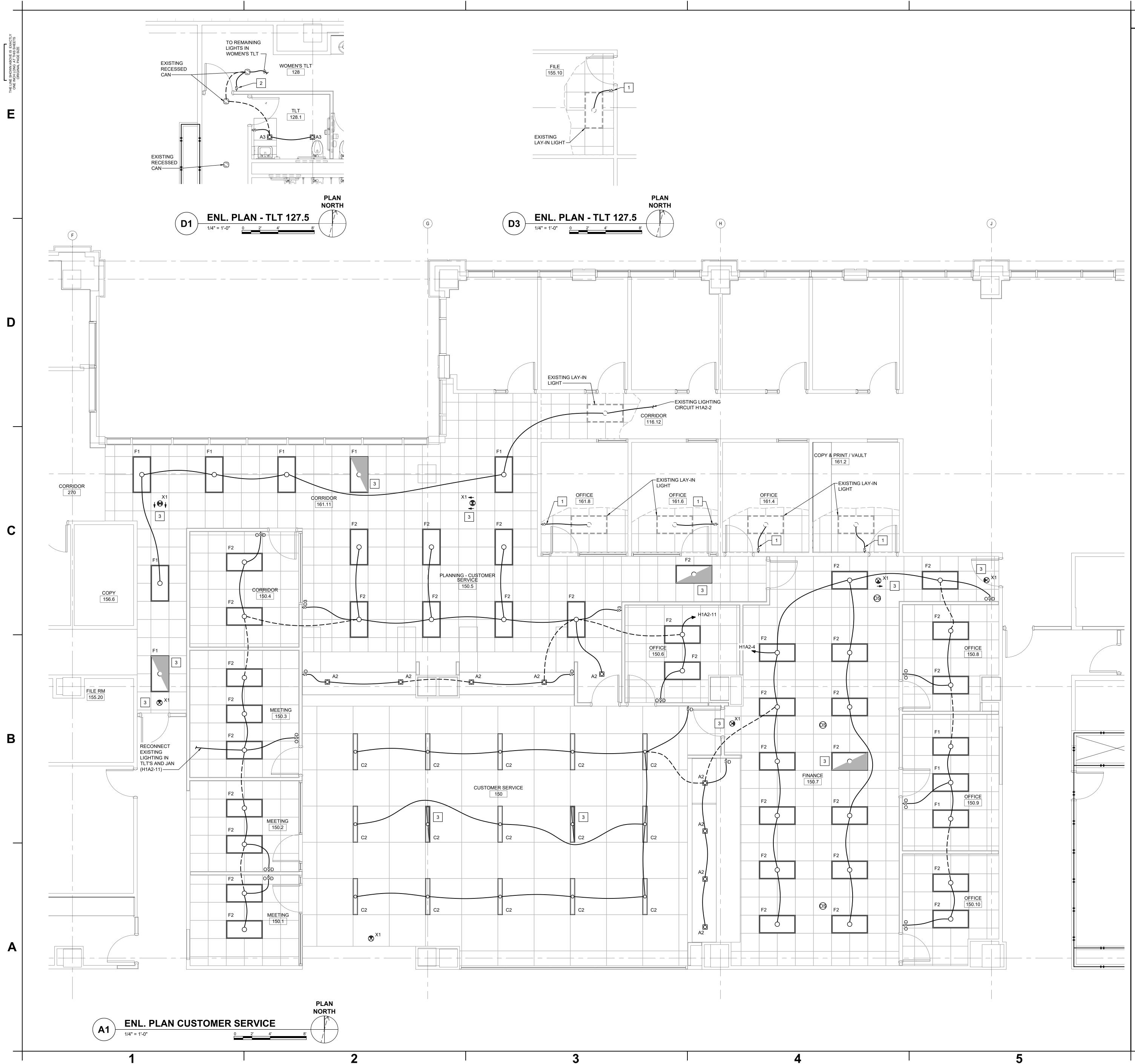






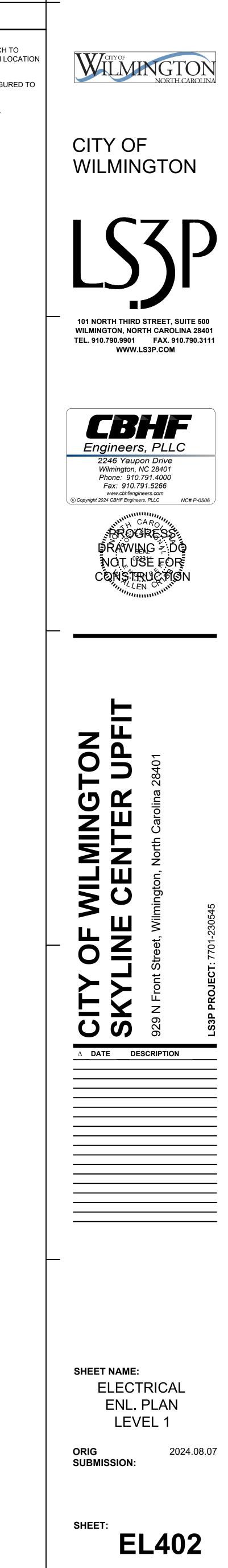


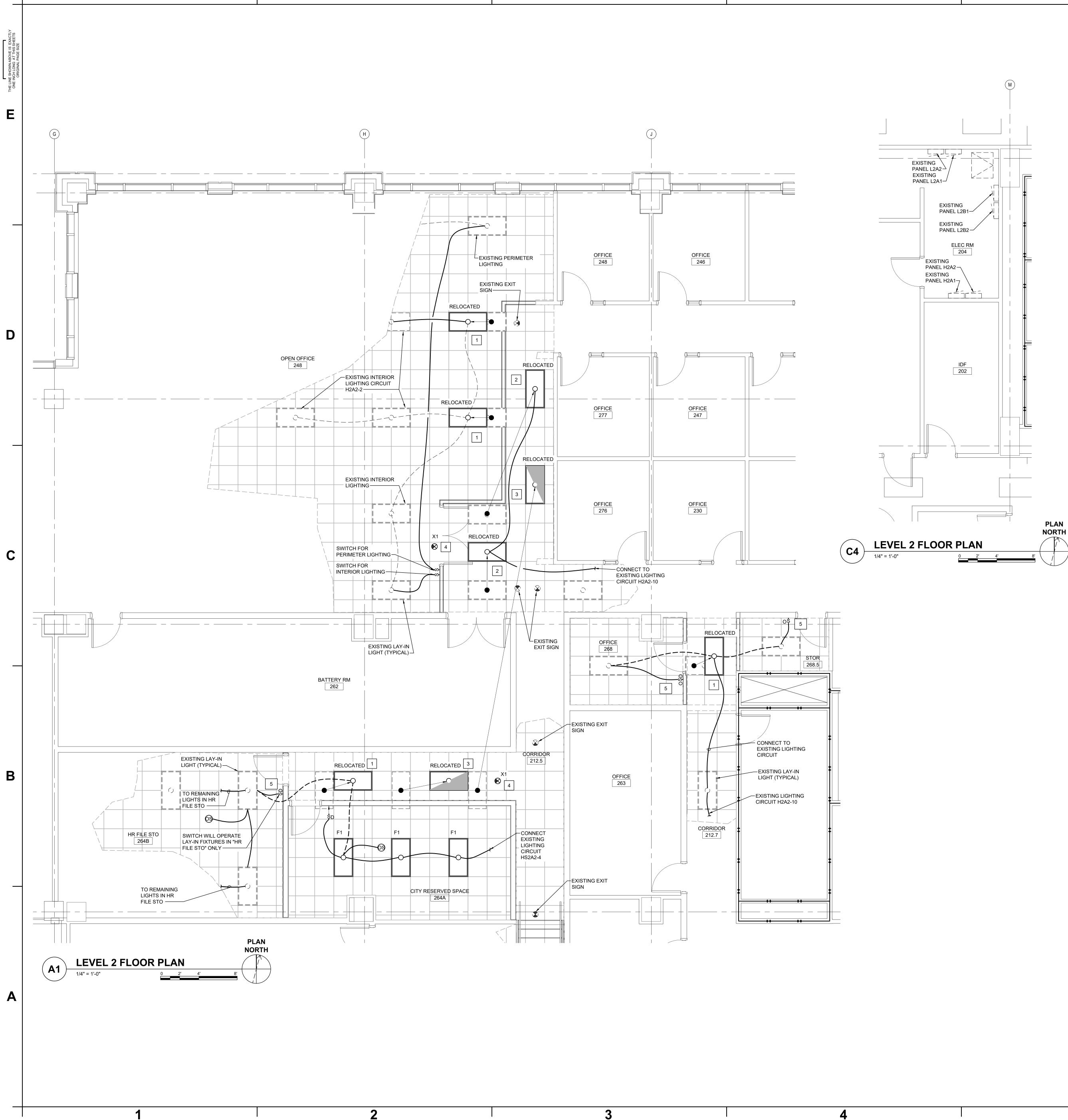




## **KEYED NOTES**

- 1 PROVIDE SWITCH, PROVIDE CONDUCTORS AS REQUIRED FROM SWITCH TO LIGHT, LIGHT(S) MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.
- 2 PROVIDE SWITCH, LIGHT(S) IN WOMEN'S TLT [2128] MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.
- 3 FIXTURE MUST BE FED FROM LIFE SAFETY CIRCUIT HE1-1 THIS FLOOR.





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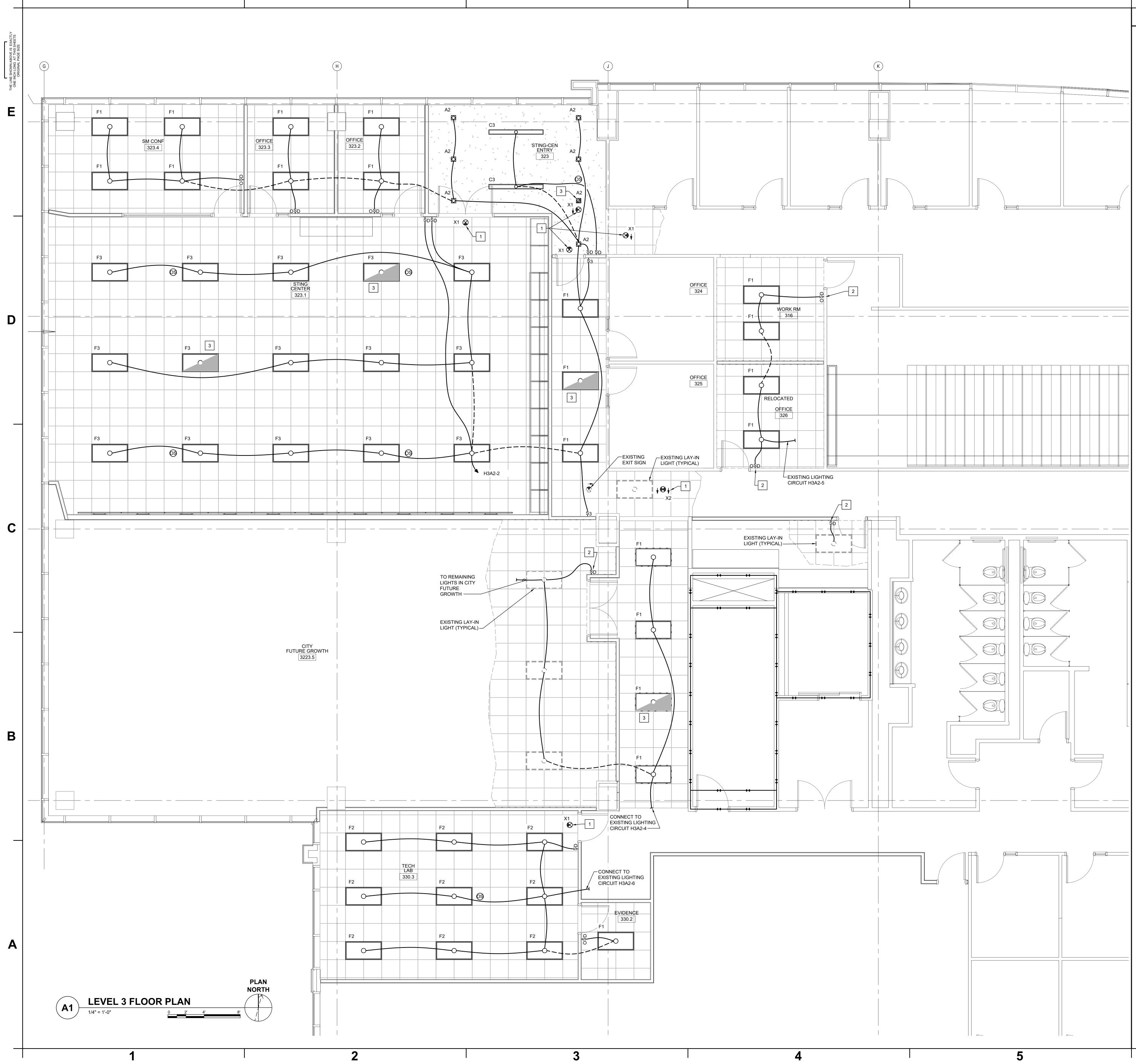
# **KEYED NOTES**

- 1 LAY-IN PARABOLIC FIXTURE RELOCATED FROM LOCATION INDICATED ON PLAN, FIXTURE MUST BE CONNECTED TO EXISTING LIGHTING CIRCUIT IT WAS CONNECTED TO PRIOR TO RELOCATION.
- 2 LAY-IN PARABOLIC FIXTURE RELOCATED FROM LOCATION INDICATED ON PLAN, CONNECT FIXTURE TO EXISTING LIGHTING CIRCUIT INDICATED, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
- 3 LAY-IN PARABOLIC FIXTURE RELOCATED FROM LOCATION INDICATED ON PLAN, CONNECT FIXTURE TO LIFE SAFETY CIRCUIT HEG1-10 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
- 4 EXIT SIGN, CONNECT TO LIFE SAFETY CIRCUIT HEG1-10 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
- 5 PROVIDE SWITCH, PROVIDE CONDUCTORS AS REQUIRED FROM SWITCH TO LIGHT, LIGHT(S) MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.



ORIG SUBMISSION:

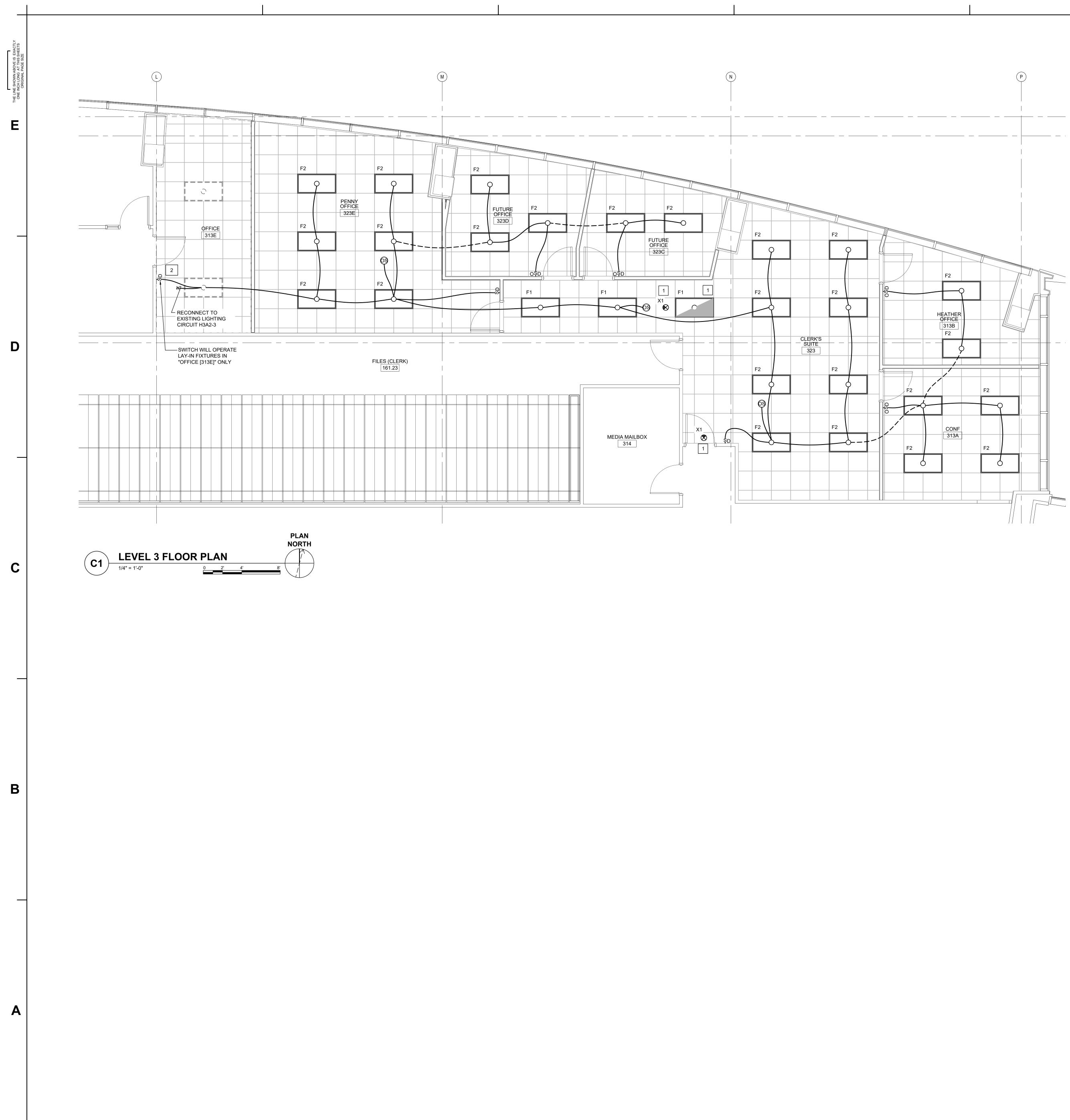
SHEET: **EL403** 



## **KEYED NOTES**

- 1 EXIT SIGN, CONNECT TO LIFE SAFETY CIRCUIT HEG1-16 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
- 2 PROVIDE SWITCH, PROVIDE CONDUCTORS AS REQUIRED FROM SWITCH TO LIGHT, LIGHT(S) MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.
- 3 LAY-IN FIXTURE, CONNECT FIXTURE TO LIFE SAFETY CIRCUIT HEG1-16 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.



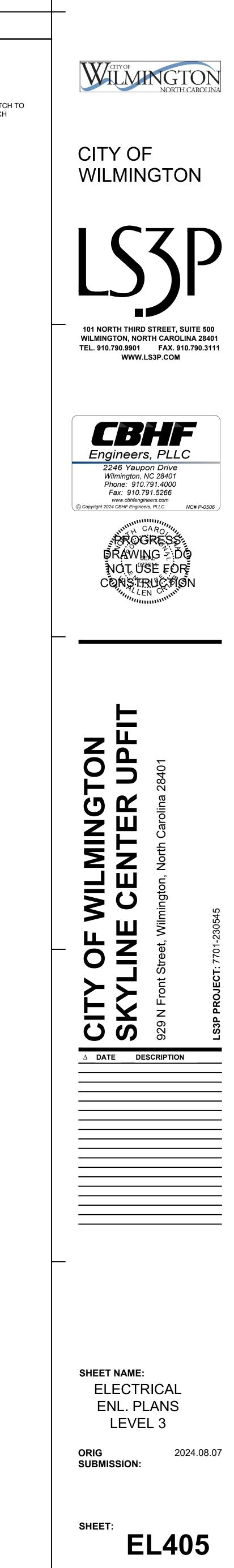


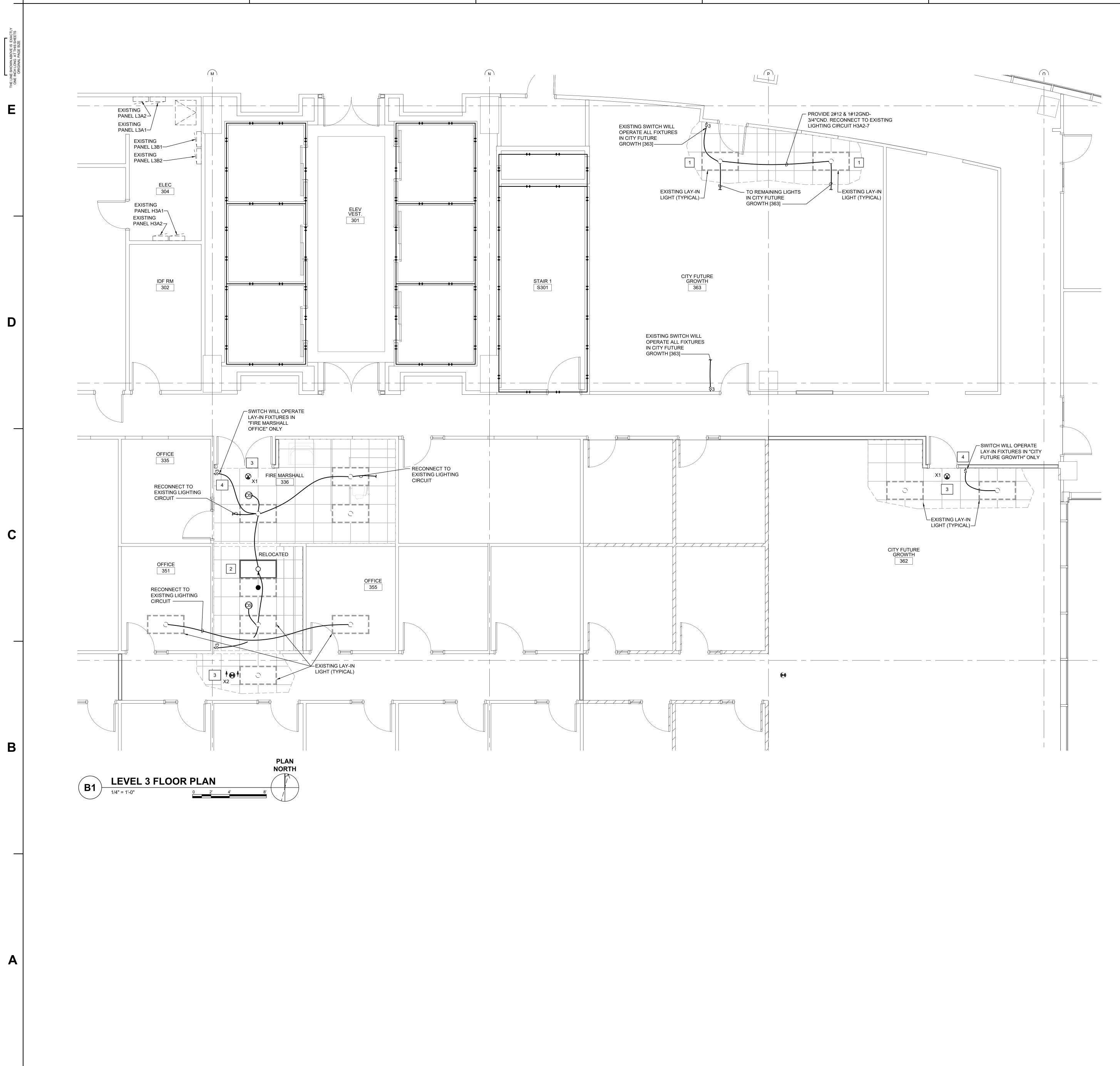
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# **KEYED NOTES**

1 EXIT SIGN, CONNECT TO LIFE SAFETY CIRCUIT HEG1-10 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.

2 PROVIDE SWITCH, PROVIDE CONDUCTORS AS REQUIRED FROM SWITCH TO LIGHT, LIGHT(S) MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.

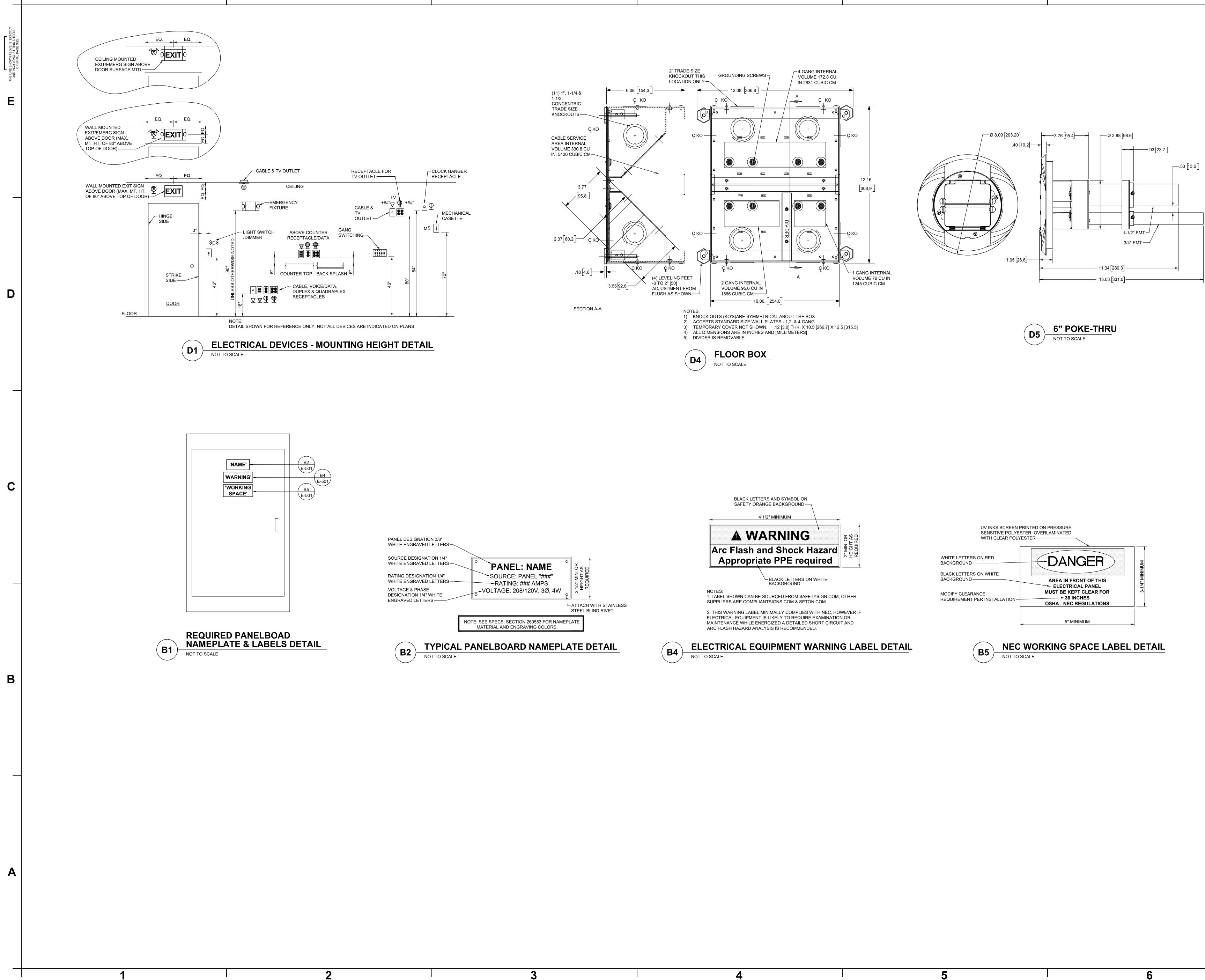


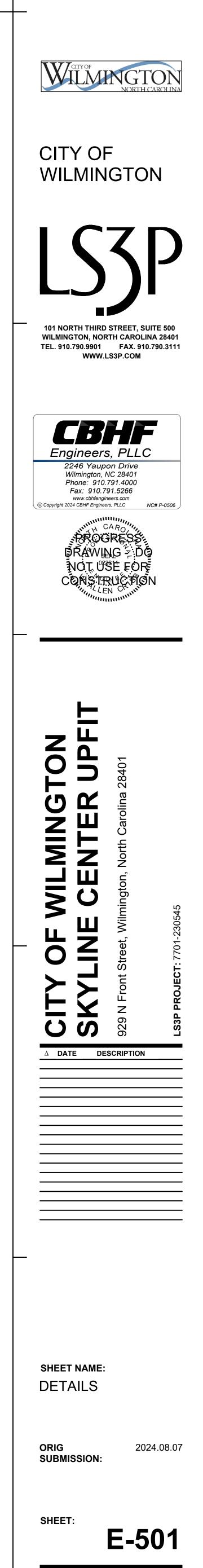


## **KEYED NOTES**

- 1 LAY-IN PARABOLIC FIXTURE RELOCATED FROM LOCATION INDICATED ON PLAN, FIXTURE MUST BE CONNECTED TO EXISTING LIGHTING CIRCUIT IT WAS CONNECTED TO PRIOR TO RELOCATION.
- 2 LAY-IN PARABOLIC FIXTURE RELOCATED FROM LOCATION INDICATED ON PLAN, CONNECT FIXTURE TO EXISTING LIGHTING CIRCUIT INDICATED, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
- 3 EXIT SIGN, CONNECT TO LIFE SAFETY CIRCUIT HEG1-16 THIS FLOOR, CONTRACTOR MUST VERIFY LIGHTING CIRCUIT.
- 4 PROVIDE SWITCH IN LOCATION INDICATED, LIGHT(S) MUST BE RECONFIGURED TO OPERATE FROM SWITCH LOCATION INDICATED.







EXISTING PANEL LE1 REVISED XX 100 % NEUTRAL BUS BOLT-ON HINGED TRIM LOAD CKT BKR VA TRIP/POLES A B C SERVED REC ELEV MACH RM 8& DMSS-4 (INDOOR UNIT) ()FTR PANEL P1 & P2 AERA A 1,260 (X)NAC PANELS 1ST AREA A (X)FTR PANEL 1ST AREA DMSS-4 (OUTDOOR UNIT) 080 (X)NAC PANELS 2ND AREA A 1,520 ) X)REC & LTS ELEV PIT #8&9 X)ELEV CAB LTS & REC #8 X)ELEV CAB LTS & REC #9 (X)FTR PANEL 2ND AREA (X)NAC PANELS 3RD PENTHOUS 720 RCPS: DAIS CITY COUNCIL 154C (NOTE 1) 860 LENEL BADGE SYSTEM 540 RCPS: DAIS CITY COUNCIL 154C (NOTE 1) 860 720 540 RCPS: WALL BEHIND DAIS (NOTE 1) 720 RCPS: DAIS CITY COUNCIL 154C (NOTE 1) 500 RCPS: WALL BEHIND DAIS (NOTE 1) 720 RCPS: DAIS CITY COUNCIL 154C (NOTE 1) 500 540 RCPS: DAIS CITY CNCL,FLR BOX 154C (NOTE 1) RCPS: FLR BOX (NOTE 1) 720 1,080 720 RCPS: DAIS CITY COUNCIL 154C (NOTE 2) RCPS: FLR BOX (NOTE 2) 720 720 20/1 20/1 
 720
 20/1

 540
 20/1

 240
 15/1

 240
 15/1
 720 RCPS: DAIS CITY COUNCIL 154C (NOTE 2) RCPS: FLR BOX (NOTE 2) 1,440 20/1 8 2,008 RCPS: FLR BOX (NOTE 2) 540 RCPS: DAIS CITY COUNCIL 154C (NOTE 2) 20/1 MOTORIZED PROJ SCREEN (NOTE 2) 2,008 1,768 RCP: REAR PROJ (NOTE 2) 20/1 1,768 RCP: REAR PROJ (NOTE 2) MOTORIZED PROJ SCREEN (NOTE 2) 20/1 20/1 180 RCPS: AV/IT/G TV (NOTE 2) 180 SPACE 20/1 720 RCPS: AV/IT/G TV (NOTE 2) 720 SPACE 720 20/1 720 20/1 720 RCPS: AV/IT/G TV (NOTE 2) RCPS: AV/IT/G TV (NOTE 2) 720 OTES (AS APPLICABLE) 5,708 8,308 7,300 T 1. UTILIZE EXITING BREAKER486961TTL2. PROVIDE BREAKER INDICATED, BRKR AIC MUST MATCH PANEL AIC RATING.27%39%34%PH 100 A. MAIN CIRCUIT BREAKER 10 KAIC MINIMUM RATING

#### EXISTING PANEL L1A1 REVISED XX 100 % NEUTRAL BUS BOLT-ON SURFACE INGED TRIM LOAD CKIBKR A B C 1,080 RCPS: CUSTOMER SERV. DESK (NOTE 1) 2,340 EX REC. TELEPHONE 1,260 RCPS: OFFICE 150.6 & CUST. SERV. 150 (NOTE 1,260 360 EX REC. MENS RESTROOM 1,080 1,520 EX REC. WOMENS RESTROOM 900 RCPS: OFFICE 150.4 (NOTE 1) 360 ) EX WATERCOOLER 1,100 RCPS: MEETING 150.3 & DOOR PWR (NOTE 1) EX EXHAUST FANS EX EMCS/HVAC CONTROLS 680 1,080 RCPS: CUSTOMER SERV. DESK (NOTE 1) )EX EMCS/HVAC CONTROLS 500 500 500 860 / 159 XEROX-6135 REC ) EX EMCS/HVAC CONTROLS 720 RCPS: FINANCE DESK (NOTE 1) 860 ()EX CARD ACCESS/DOOR HRDWRE ()EX SECURITY 540 RCPS: FINANCE DESK (NOTE 2) 500 900 RCPS: FINANCE DESK & CUST. SERV. (NOTE 2) 500 500 1,080 20/1 REC RM 162, 163 1,080 RCPS: OFFICE 150.9, 150.10 1,080 REC RM 162. 164 720 900 RCPS: OFFICE 150.8, 150.9 (NOTE 1) 1,080 RCPS: MEETING 150.1 & 150.2 (NOTE 1) 1,080 RM 159 XFROX-6135 RFCPT FRONT TURNABLE DOOR 1,280 RCPS: OFFICE 150.8 & FINANCE 150.7 (NOTE 2) REC RM 159 1,280 20/1 20/1 1,100 RCP: COPIER 161.2 (NOTE 2) 1,100 HEATER F DESK REC RM 159 30/2 (X)BREAK RM TV 8,640 10,380 8,640 UNUSABLE SPARE UNUSABLE SPARE SUBLUG 10,380 UNUSABLE SPARE 9 230 9,230 IBLUG NOTES (AS APPLICABLE):15,24016,70014,550TTL PHASE VA1. UTILIZE EXITING BREAKER127139121TTL PHASE AMPS2. PROVIDE BREAKER INDICATED, BRKR AIC MUST MATCH PANEL AIC RATING.33%36%31%PHASE BALANCE A. BUS (COPPER, UNG 225 A. MAIN CIRCUIT BREAKER 10 KAIC MINIMUM RATING

| TYPE:                                | 208    | 120        | VOLTS | , 3   | PHASE,   | 4     | WIRE  |            | PROVIDE | XX     | EQUIPMENT GROUND BUS             |
|--------------------------------------|--------|------------|-------|-------|----------|-------|-------|------------|---------|--------|----------------------------------|
| BOLT-ON                              | MOUNT: | SURFACE    |       |       |          |       |       |            | IF      | ХХ     | 100 % NEUTRAL BUS                |
| HINGED TRIM                          | FEED:  | TOP        | 1     |       |          |       |       |            | CHECKED |        | ULSE LABEL                       |
|                                      | NEMA - | 1          | ENCLO | OSURE |          |       |       |            |         |        | ISOLATED GROUND BAR              |
|                                      | LOAD   | CKT BKR    | CKT   | PH    | ASE LOAD | VA    | CKT   | CKT BKR    | LOAD    |        |                                  |
| LOAD SERVED                          | VA     | TRIP/POLES | #     | A     | В        | С     | #     | TRIP/POLES | VA      | LOAD   | SERVED                           |
| (X)REC CORRIDOR 116.1                | 900    | 20/1       | 1     | 1,800 |          |       | 2     | 20/1       | 900     | (X)RE  | C LIBRARY RM 148, 149            |
| (X)SYSTEMS FURNITURE 136             | 720    | 20/1       | 3     |       | 1,620    |       | 4     | 20/1       | 900     | (X)RE  | C NORTH OFFICES                  |
| (X)SYSTEMS FURNITURE 136             | 1,080  | 20/1       | 5     |       |          | 2,160 | 6     | 20/1       | 1,080   | (X)RE  | C NORTH OFFICES                  |
| SPARE (NOTE 1)                       |        | 20/1       | 7     | 900   |          |       | 8     | 20/1       | 900     | (X)RE  | C NORTH OFFICES                  |
| (X)REC NORTH OFFICES                 | 750    | 20/1       | 9     |       | 1,650    |       | 10    | 20/1       | 900     | (X)RE  | C NORTH OFFICES                  |
| (X)REC NORTH OFFICES                 | 900    | 20/1       | 11    |       |          | 1,980 | 12    | 20/1       | 1,080   | (X)RE  | C RM 160, 161                    |
| (X)REC RM 118                        | 900    | 20/1       | 13    | 1,800 |          |       | 14    | 20/1       | 900     | (X)RE  | C SOUTH OFFICES                  |
| (X)REC RM 112                        | 1,440  | 20/1       | 15    |       | 2,160    |       | 16    | 20/1       | 720     | (X)RE  | C SOUTH OFFICES                  |
| (X)REC RM 139, 140                   | 1,080  | 20/1       | 17    |       |          | 1,800 | 18    | 20/1       | 720     | (X)RE  | C SOUTH OFFICES                  |
| SPARE (NOTE 1)                       |        | 20/1       | 19    | 1,260 |          |       | 20    | 20/1       | 1,260   | (X)RE  | C RM 1134, 135                   |
| (X)REC SOUTH OFFICES                 | 1,080  | 20/1       | 21    |       | 2,280    |       | 22    | 20/1       | 1,200   | (X)CO  | PIER RM 135                      |
| (X)REC RM 146.1, 146.2, 146.6, 146.7 | 1,440  | 20/1       | 23    |       |          | 1,980 | 24    | 20/1       | 540     | (X)RE  | C LAB RM 146.12                  |
| (X)REC RM 146.5                      | 900    | 20/1       | 25    | 1,260 |          |       | 26    | 20/1       | 360     | (X)RE  | C LAB RM 146.12                  |
| (X)REC EXAM RM 146.8                 | 720    | 20/1       | 27    |       | 1,620    |       | 28    | 20/1       | 900     | (X)RE  | C RM 146.13, 146.14, 146.15, 151 |
| (X)REC EXAM RM 146.9                 | 720    | 20/1       | 29    |       |          | 1,260 | 30    | 20/1       | 540     | (X)RE  | C RM 146.14, 146.15, 146         |
| (X)REC EXAM RM 146.10                | 720    | 20/1       | 31    | 1,220 |          |       | 32    | 20/1       | 500     | (X)LIG | HTS CAFÉ                         |
| (X)REFRIGERATOR LAB RM 146.12        | 500    | 20/1       | 33    |       | 1,050    |       | 34    | 20/1       | 550     | (X)LIG | HTS CAFÉ                         |
| SPARE (NOTE 1)                       |        | 20/1       | 35    |       |          | 50    | 36    | 15/1       | 50      | (X)EX  | HAUST FAN                        |
| SPARE (NOTE 1)                       |        | 20/2       | 37    | 400   |          |       | 38    | 20/1       | 400     | (X)LIG | HTS CONF RM 112                  |
| SPARE (NOTE 1)                       |        |            | 39    |       |          |       | 40    | 20/2       |         | SPAR   | E (NOTE 1)                       |
| SPARE (NOTE 1)                       |        | 20/1       | 41    |       |          |       | 42    |            |         |        |                                  |
| NOTES (AS APPLICABLE):               |        |            |       | 8,640 | 10,380   | 9,230 | TTL P | HASE VA    | 225     | A. BU  | S (COPPER, UNO)                  |
| 1. LABEL BREAKER SPARE.              |        |            |       | 72    | 87       | 77    | TTL P | HASE AMPS  | 225     | A. MA  | IN LUGS AND/OR FEEDER RATING     |
|                                      |        |            |       | 31%   | 37%      | 33%   | PHAS  | E BALANCE  | 10      | KAICI  | MINIMUM RATING                   |

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| TYPE:                                         | 208     | 120        | VOLTS | 5, 3  | PHASE,   | 4     | WIRE   |            | PROVIDE | XX    | EQUIPMENT GROUND BUS         |
|-----------------------------------------------|---------|------------|-------|-------|----------|-------|--------|------------|---------|-------|------------------------------|
| BOLT-ON                                       | MOUNT:  | SURFACE    |       |       |          |       |        |            | IF      | ХХ    | 100 % NEUTRAL BUS            |
| HINGED TRIM                                   | FEED:   | TOP        |       |       |          |       |        |            | CHECKED |       | ULSE LABEL                   |
|                                               | NEMA -  | 1          | ENCL  | OSURE | ]        |       |        |            |         |       | ISOLATED GROUND BAR          |
|                                               | LOAD    | CKT BKR    | CKT   | PH    | ASE LOAD | VA    | CKT    | CKT BKR    | LOAD    |       |                              |
| LOAD SERVED                                   | VA      | TRIP/POLES | #     | A     | В        | С     | #      | TRIP/POLES | VA      | LOAD  | SERVED                       |
| X)REC. CORRIDOR 116.5                         | 720     | 20/1       | 1     | 1,620 |          |       | 2      | 20/1       | 900     | С     |                              |
| X)REC. CORRIDOR 116.8                         | 720     | 20/1       | 3     |       | 1,620    |       | 4      | 20/1       | 900     | (X)SY | STEMS FURNITURE RM 155       |
| X)REC. CORRIDOR 116.7                         | 720     | 20/1       | 5     |       |          | 1,620 | 6      | 20/1       | 900     | (X)SY | STEMS FURNITURE RM 155       |
| RCPS: TV'S RETIREMENT RM 154D (NOTE 2)        | 720     | 20/1       | 7     | 1,620 |          |       | 8      | 20/1       | 900     | (X)SY | STEMS FURNITURE RM 155       |
| RCPS: RETIREMENT RM 154D, CIRR 116.5 (NOTE 2) | ) 1,080 | 20/1       | 9     |       | 1,980    |       | 10     | 20/1       | 900     | (X)SY | STEMS FURNITURE RM 155       |
| RCPS: E WALL CITY COUNCIL 154C (NOTE 2)       | 540     | 20/1       | 11    |       |          | 1,440 | 12     | 20/1       | 900     | (X)SY | STEMS FURNITURE RM 155       |
| RCPS: S WALL CITY COUNCIL 154C (NOTE 2)       | 720     | 20/1       | 13    | 1,440 |          |       | 14     | 20/1       | 720     | (X)RE | C CORR 116.5 COUNTER         |
| RCPS: S WALL CITY COUNCIL 154C (NOTE 2)       | 900     | 20/1       | 15    |       | 1,620    |       | 16     | 20/1       | 720     | (X)RE | C CORR 116.7 COUNTER         |
| RCPS: CONF 154A, 154B (NOTE 2)                | 720     | 20/1       | 17    |       |          | 1,440 | 18     | 20/1       | 720     | (X)RE | C FLOORBOX MEETING 153       |
| RCPS: CONF 154H (NOTE 2)                      | 360     | 20/1       | 19    | 900   |          |       | 20     | 20/1       | 540     | (X)RE | C VISITOR CENTER COUNT       |
| RCPS: CONF 154G, 154H (NOTE 2)                | 720     | 20/1       | 21    |       | 1,260    |       | 22     | 20/1       | 540     | (X)RE | C VISITOR CENTER COUNT       |
| TRACK LIGHTING:CITY COUNCIL 154C (NOTE 2)     | 1,000   | 20/1       | 23    |       |          | 2,080 | 24     | 20/1       | 1,080   | (X)RE | C CONF CENTER CORR           |
| X)SPARE                                       |         | 20/1       | 25    | 1,440 |          |       | 26     | 20/1       | 1,440   | (X)RE | C CONF CENTER CORR           |
| X)SPARE                                       |         | 20/1       | 27    |       |          |       | 28     | 20/1       |         | (X)SP | ARE                          |
| (X)SPARE                                      |         | 20/1       | 29    |       |          |       | 30     | 20/1       |         | (X)SP | ARE                          |
| SPACE                                         |         | -          | 31    |       |          |       | 32     | 20/1       |         | (X)SP | ARE                          |
| SPACE                                         |         | -          | 33    |       |          |       | 34     | -          |         | SPAC  | E                            |
| SPACE                                         |         | -          | 35    |       |          |       | 36     | -          |         | SPAC  | E                            |
| SPACE                                         |         | -          | 37    |       |          |       | 38     | -          |         | SPAC  | E                            |
| SPACE                                         |         | -          | 39    |       |          |       | 40     | -          |         | SPAC  | E                            |
| SPACE                                         |         | -          | 41    |       |          |       | 42     | -          |         | SPAC  | E                            |
| NOTES (AS APPLICABLE):                        |         |            |       | 7,020 | 6,480    | 6,580 | TTL Pł | ASE VA     | 225     | A. BL | IS (COPPER, UNO)             |
| 1. LABEL BREAKER SPARE.                       |         |            |       | 59    | 54       | 55    | TTL Pł | ASE AMPS   | 150     | A. MA | IN LUGS AND/OR FEEDER RATING |
| 2. UTILIZE EXISTING BREAKER                   |         |            |       | 35%   | 32%      | 33%   |        | BALANCE    | 10      | KAIC  | MINIMUM RATING               |

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| BOLT-ON<br>HINGED TRIM         MOUNT:         SURFACE<br>FEED:         TOP         If           NEMA-         1         ENCLOSURE         CKT         CKT         CKT BKR         LOAD           LOAD SERVED         VA         TRIP/POLES         #         A         B         C         #         TRIP/POLES         VA           SPARE (NOTE 1)         20/1         1         2         20/1         S         S         A         4         20/1         S           SPARE (NOTE 1)         20/1         7         2         6         8         20/1         S         S         A         8         20/1         S         S         A         S         2         2         C         S         A         S         2         2         A         S         2         C         A         S         2         C         A         S         2         A         S         S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E XX EQUIPMENT GROUND BUS          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| NEMA -         1         ENCLOSURE           LOAD SERVED         LOAD         CKT BKR         CKT         PHASE LOAD VA         CKT         CKT BKR         LOAD           SPARE (NOTE 1)         20/1         1         2         20/1         SPARE (NOTE 1)         2         2         2         2         2         SPARE (NOTE 1)         2         2         2         2         2         2         2         2         2         3         SPARE (NOTE 1)         2         2         2         2         2         3         SPARE (NOTE 1)         2         2         2         2         2         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3 </td <td>XX 100 % NEUTRAL BUS</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | XX 100 % NEUTRAL BUS               |
| LOAD         CKT BKR<br>TRIP/POLES         CKT<br>#         PHASE LOAD VA         CKT<br>KT         CKT BKR<br>TRIP/POLES         LOAD           SPARE (NOTE 1)         20/1         1         2         20/1         1           SPARE (NOTE 1)         20/1         1         2         20/1         1           SPARE (NOTE 1)         20/1         3         4         20/1         5           SPARE (NOTE 1)         20/1         7         8         20/1         6           SPARE (NOTE 1)         20/1         7         8         20/1         7           SPARE (NOTE 1)         20/1         7         8         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         11         720         12         20/1         360           (X)REC. FLOORBOX CONF RM 154         720         20/1         13         1,440         16         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         17         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         17         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ULSE LABEL                         |
| LOAD SERVED         VA         TRIP/POLES         #         A         B         C         #         TRIP/POLES         VA           SPARE (NOTE 1)         20/1         1         20/1         3         2         20/1         5           SPARE (NOTE 1)         20/1         3         2         4         20/1         5           SPARE (NOTE 1)         20/1         5         6         20/1         6         20/1         7           SPARE (NOTE 1)         20/1         7         8         20/1         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ISOLATED GROUND BAR                |
| SPARE (NOTE 1)         20/1         1         2         20/1           SPARE (NOTE 1)         20/1         3         4         20/1           SPARE (NOTE 1)         20/1         5         6         20/1           SPARE (NOTE 1)         20/1         7         8         20/1           SPARE (NOTE 1)         20/1         7         8         20/1           SPARE (NOTE 1)         20/1         7         8         20/1           (X)REC. FLOORBOX CONF RM 154         720         20/1         10         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         13         1,440         14         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         13         1,440         14         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         15         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         17         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         700         20/1         17         1,440         18         20/1         720      <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |
| SPARE (NOTE 1)         20/1         3         4         20/1           SPARE (NOTE 1)         20/1         5         6         20/1           SPARE (NOTE 1)         20/1         7         8         20/1           SPARE (NOTE 1)         20/1         7         8         20/1           SPARE (NOTE 1)         20/1         7         8         20/1           (X)REC. FLOORBOX CONF RM 154         720         20/1         9         1,440         10         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         13         1,440         16         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         15         1,440         16         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         17         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         19         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         19         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1 <td>LOAD SERVED</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LOAD SERVED                        |
| SPARE (NOTE 1)         20/1         5         6         20/1           SPARE (NOTE 1)         20/1         7         8         20/1         7           (X)REC. FLOORBOX CONF RM 154         720         20/1         9         1,440         10         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         9         1,440         10         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         13         1,440         14         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         13         1,440         16         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         15         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         17         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         17         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         17         1,440         18         20/1         720           (X)RPROJECTION SCREEN CONF 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SPARE (NOTE 1)                     |
| SPARE (NOTE 1)         20/1         7         8         20/1           (X)REC. FLOORBOX CONF RM 154         720         20/1         9         1,440         10         20/1         720           (X)REC. CONFERENCE RM 154         360         20/1         11         720         12         20/1         360           (X)REC. FLOORBOX CONF RM 154         720         20/1         13         1,440         14         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         15         1,440         16         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         15         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         17         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         19         1,440         18         20/1         720           (X)REC. FLOORBOX CONF RM 154         720         20/1         19         1,440         20         20/1         720           SPARE (NOTE 1)         20/1         21         22         20/1         720           (X)PROJECTION SCREEN CONF 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | SPARE (NOTE 1)                     |
| (X)REC. FLOORBOX CONF RM 154       720       20/1       9       1,440       10       20/1       720         (X)REC. CONFERENCE RM 154       360       20/1       11       720       12       20/1       360         (X)REC. FLOORBOX CONF RM 154       720       20/1       13       1,440       14       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       15       1,440       16       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       17       1,440       18       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       19       1,440       18       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       19       1,440       20       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       19       1,440       18       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       19       1,440       20       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       21       20       20/1       720         (X)PROJECTION SCREEN CONF 154       800 <t< td=""><td>SPARE (NOTE 1)</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SPARE (NOTE 1)                     |
| Image: Non-Section Section Sectin Sectin Section Section Section Section Section Sectio | SPARE (NOTE 1)                     |
| (X) REC. FLOORBOX CONF RM 154       720       20/1       13       1,440       14       20/1       720         (X) REC. FLOORBOX CONF RM 154       720       20/1       15       1,440       16       20/1       720         (X) REC. FLOORBOX CONF RM 154       720       20/1       15       1,440       16       20/1       720         (X) REC. FLOORBOX CONF RM 154       720       20/1       17       1,440       18       20/1       720         (X) REC. FLOORBOX CONF RM 154       720       20/1       17       1,440       18       20/1       720         (X) REC. FLOORBOX CONF RM 154       720       20/1       19       1,440       18       20/1       720         (X) REC. FLOORBOX CONF RM 154       720       20/1       19       1,440       20       20       20/1       720         (X) PROJECTION SCREEN CONF 154       800       20/1       23       1,800       24       20/1       1,000         (X) PROJECTION SCREEN CONF 154       800       20/1       27       1,800       28       20/1       1,000         (X) PROJECTION SCREEN CONF 154       800       20/1       27       1,800       28       20/1       1,000 <t< td=""><td>(X)REC. FLOORBOX CONF RM 154</td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (X)REC. FLOORBOX CONF RM 154       |
| (X)REC. FLOORBOX CONF RM 154       720       20/1       15       1,440       16       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       17       1,440       18       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       17       1,440       18       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       19       1,440       18       20/1       720         (X)REC. FLOORBOX CONF RM 154       720       20/1       19       1,440       20       20/1       720         SPARE (NOTE 1)       20/1       21       22       20/1       1,000         (X)PROJECTION SCREEN CONF 154       800       20/1       25       1,800       24       20/1       1,000         (X)PROJECTION SCREEN CONF 154       800       20/1       27       1,800       28       20/1       1,000         (X)AV EQUIPMENT CONF RM 154       500       20/1       27       1,800       32       20/1       1,000         (X)AV EQUIPMENT CONF RM 154       500       20/1       31       500       32       20/1       1,000         (X)AV EQUIPMENT CONF RM 154       500       20/1 <td< td=""><td>(X)REC. CONFERENCE RM 154</td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (X)REC. CONFERENCE RM 154          |
| (X) REC. FLOORBOX CONF RM 154       720       20/1       17       1,440       18       20/1       720         (X) REC. FLOORBOX CONF RM 154       720       20/1       19       1,440       18       20/1       720         SPARE (NOTE 1)       20/1       21       22       20/1       720         (X) PROJECTION SCREEN CONF 154       800       20/1       23       1,800       24       20/1       1,000         (X) PROJECTION SCREEN CONF 154       800       20/1       25       1,800       26       20/1       1,000         (X) PROJECTION SCREEN CONF 154       800       20/1       27       1,800       28       20/1       1,000         (X) PROJECTION SCREEN CONF 154       800       20/1       27       1,800       28       20/1       1,000         (X) AV EQUIPMENT CONF RM 154       500       20/1       29       1,500       30       20/1       1,000         (X) AV EQUIPMENT CONF RM 154       500       20/1       31       500       32       20/1       1,000         (X) AV EQUIPMENT CONF RM 154       500       20/1       33       500       34       20/1       1,000         (X) AV EQUIPMENT CONF RM 154       500       20/1 </td <td>(X)REC. FLOORBOX CONF RM 154</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (X)REC. FLOORBOX CONF RM 154       |
| Indext                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (X)REC. FLOORBOX CONF RM 154       |
| SPARE (NOTE 1)       20/1       21       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       1000       100       100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (X)REC. FLOORBOX CONF RM 154       |
| (X)PROJECTION SCREEN CONF 154       800       20/1       23       1,800       24       20/1       1,000         (X)PROJECTION SCREEN CONF 154       800       20/1       25       1,800       26       20/1       1,000         (X)PROJECTION SCREEN CONF 154       800       20/1       27       1,800       28       20/1       1,000         (X)PROJECTION SCREEN CONF 154       800       20/1       27       1,800       28       20/1       1,000         (X)AV EQUIPMENT CONF RM 154       500       20/1       29       1,500       30       20/1       1,000         (X)AV EQUIPMENT CONF RM 154       500       20/1       31       500       32       20/1       1,000         (X)AV EQUIPMENT CONF RM 154       500       20/1       33       500       34       20/1       1         (X)AV EQUIPMENT CONF RM 154       500       20/1       35       500       36       20/1       1         (X)SPARE       20/1       37       36       38       20/1       1       1         (X)SPARE       20/1       39       39       40       20/1       20/1       1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (X)REC. FLOORBOX CONF RM 154       |
| (X)PROJECTION SCREEN CONF 154       800       20/1       25       1,800       26       20/1       1,000         (X)PROJECTION SCREEN CONF 154       800       20/1       27       1,800       28       20/1       1,000         (X)PROJECTION SCREEN CONF 154       800       20/1       27       1,800       28       20/1       1,000         (X)AV EQUIPMENT CONF RM 154       500       20/1       29       1,500       30       20/1       1,000         (X)AV EQUIPMENT CONF RM 154       500       20/1       31       500       32       20/1       1,000         (X)AV EQUIPMENT CONF RM 154       500       20/1       33       500       34       20/1       1         (X)AV EQUIPMENT CONF RM 154       500       20/1       35       500       36       20/1         (X)AV EQUIPMENT CONF RM 154       500       20/1       35       500       36       20/1         (X)SPARE       20/1       37       38       20/1       38       20/1         (X)SPARE       20/1       39       40       20/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (X)SPARE                           |
| (X)PROJECTION SCREEN CONF 154       800       20/1       27       1,800       28       20/1       1,000         (X)A/V EQUIPMENT CONF RM 154       500       20/1       29       1,500       30       20/1       1,000         (X)A/V EQUIPMENT CONF RM 154       500       20/1       31       500       32       20/1       1,000         (X)A/V EQUIPMENT CONF RM 154       500       20/1       31       500       34       20/1         (X)A/V EQUIPMENT CONF RM 154       500       20/1       33       500       34       20/1         (X)A/V EQUIPMENT CONF RM 154       500       20/1       35       500       36       20/1         (X)A/V EQUIPMENT CONF RM 154       500       20/1       35       500       36       20/1         (X)SPARE       20/1       37       38       20/1       38       20/1         (X)SPARE       20/1       39       40       20/1       37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (X)PROJECTOR CONF RM 154           |
| (X)A/V EQUIPMENT CONF RM 154       500       20/1       29       1,500       30       20/1       1,000         (X)A/V EQUIPMENT CONF RM 154       500       20/1       31       500       32       20/1       1,000         (X)A/V EQUIPMENT CONF RM 154       500       20/1       31       500       34       20/1         (X)A/V EQUIPMENT CONF RM 154       500       20/1       33       500       34       20/1         (X)A/V EQUIPMENT CONF RM 154       500       20/1       35       500       36       20/1         (X)A/V EQUIPMENT CONF RM 154       500       20/1       35       500       36       20/1         (X)SPARE       20/1       37       38       20/1       38       20/1         (X)SPARE       20/1       39       40       20/1       37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (X)PROJECTOR CONF RM 154           |
| (X) A/V EQUIPMENT CONF RM 154       500       20/1       31       500       32       20/1         (X) A/V EQUIPMENT CONF RM 154       500       20/1       33       500       34       20/1         (X) A/V EQUIPMENT CONF RM 154       500       20/1       33       500       34       20/1         (X) A/V EQUIPMENT CONF RM 154       500       20/1       35       500       36       20/1         (X) SPARE       20/1       37       38       20/1         (X) SPARE       20/1       39       40       20/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (X)PROJECTOR CONF RM 154           |
| (X) A/V EQUIPMENT CONF RM 154     500     20/1     33     500     34     20/1       (X) A/V EQUIPMENT CONF RM 154     500     20/1     35     500     36     20/1       (X) A/V EQUIPMENT CONF RM 154     500     20/1     35     500     36     20/1       (X) SPARE     20/1     37     38     20/1       (X) SPARE     20/1     39     40     20/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (X)PROJECTOR CONF RM 154           |
| X)A/V EQUIPMENT CONF RM 154         500         20/1         35         500         36         20/1           (X)SPARE         20/1         37         38         20/1           (X)SPARE         20/1         39         40         20/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (X)SPARE                           |
| (X)SPARE         20/1         37         38         20/1           (X)SPARE         20/1         39         40         20/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (X)SPARE                           |
| X)SPARE         20/1         39         40         20/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (X)SPARE                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (X)SPARE                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (X)SPARE                           |
| (X)SPARE 20/1 41 42 20/1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (X)SPARE                           |
| NOTES (AS APPLICABLE):         5,180         5,180         5,960         TTL PHASE VA         223                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5 A. BUS (COPPER, UNO)             |
| 1. LABEL BREAKER SPARE.         43         43         50         TTL PHASE AMPS         150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0 A. MAIN LUGS AND/OR FEEDER RATIN |

| TYPE:                      | 208    | 120        | VOLTS | , 3    | PHASE,   | 4      | WIRE  |            | PROVIDE | XX    | EQUIPMENT GROUND BUS                     |
|----------------------------|--------|------------|-------|--------|----------|--------|-------|------------|---------|-------|------------------------------------------|
| BOLT-ON                    | MOUNT: | SURFACE    |       |        |          |        |       |            | IF      | XX    | 100 % NEUTRAL BUS                        |
| HINGED TRIM                | FEED:  | TOP        | -     |        |          |        |       |            | CHECKED |       | ULSE LABEL                               |
|                            | NEMA - | 1          | ENCLO | OSURE  | ]        |        |       |            |         |       | ISOLATED GROUND BAR                      |
|                            | LOAD   | CKT BKR    | CKT   | PH     | ASE LOAD | VA     | CKT   | CKT BKR    | LOAD    |       |                                          |
| LOAD SERVED                | VA     | TRIP/POLES | #     | Α      | В        | С      | #     | TRIP/POLES | VA      | LOAD  | SERVED                                   |
| (X)EX REC ELEC MECH IDF    | 1,260  | 20/1       | 1     | 2,340  |          |        | 2     | 20/1       | 1,080   | (X)RE | C RM 220                                 |
| (X)EX REC TELEPHONE        | 900    | 20/1       | 3     |        | 1,080    |        | 4     | 20/1       | 180     | (X)RE | C RM 293                                 |
| (X)EX REC MENS RESTROOM    | 360    | 20/1       | 5     |        |          | 1,560  | 6     | 20/1       | 1,200   | (X)CO | OPER RM 220                              |
| (X)EX REC WOMENS RESTROOM  | 360    | 20/1       | 7     | 660    |          |        | 8     | 20/1       | 300     | (X)RE | C RM 212                                 |
| (X)EX WATERCOOLER          | 800    | 20/1       | 9     |        | 1,700    |        | 10    | 20/1       | 900     | (X)RE | C RM 248                                 |
| (X)SPARE                   | 200    | 15/1       | 11    |        |          | 1,460  | 12    | 20/1       | 1,260   | (X)RE | C BATTERY 262/264                        |
| (X)SPARE                   | 500    | 20/1       | 13    | 1,220  |          |        | 14    | 20/1       | 720     | (X)RE | C RM 253, 208                            |
| (X)SPARE                   | 500    | 20/1       | 15    |        | 1,220    |        | 16    | 20/1       | 720     | (X)RE | C RM 263,265                             |
| (X)SPARE                   | 500    | 20/1       | 17    |        |          | 2,000  | 18    | 20/1       | 1,500   | (X)EN | /H-6 RM 293                              |
| (X)SPARE                   | 500    | 20/1       | 19    | 1,580  |          |        | 20    | 20/1       | 1,080   | (X)RE | C DATA CENTER                            |
| (X)SPARE                   | 500    | 20/1       | 21    |        | 1,040    |        | 22    | 20/1       | 540     | (X)RE | C IT INTEGRATION                         |
| (X)REC RM 269.1, 269.2     | 1,260  | 20/1       | 23    |        |          | 1,800  | 24    | 20/1       | 540     | (X)RE | C IT INTEGRATION                         |
| (X)REC RM 261              |        | 20/1       | 25    |        |          |        | 26    | 20/1       |         | (X)RE | C RM 261                                 |
| (X)REC RM 261              |        | 20/1       | 27    |        | 540      |        | 28    | 20/1       | 540     | RCPS  | : HR FILE ST 264B, CTY RESV 264A (NOTE 1 |
| (X)REC RM 261              |        | 20/1       | 29    |        |          | 720    | 30    | 20/1       | 720     | RCPS  | : CTY RESV 264A (NOTE 1)                 |
| SPACE                      |        | -          | 31    | 720    |          |        | 32    | 20/1       | 720     | RCPS  | : OPEN OFFICE 248 (NOTE 2)               |
| SPACE                      |        | -          | 33    |        |          |        | 34    | -          |         | SPAC  | E                                        |
| SPACE                      |        | -          | 35    |        |          |        | 36    | -          |         | SPAC  | E                                        |
| SPACE                      |        | -          | 37    |        |          |        | 38    | -          |         | SPAC  | E                                        |
| SPACE                      |        | -          | 39    |        |          |        | 40    | -          |         | SPAC  | E                                        |
| SPACE                      |        | -          | 41    |        |          |        | 42    | -          |         | SPAC  | E                                        |
| SUBLUG                     | 8,560  |            |       | 8,560  |          |        |       |            |         | UNUS  | ABLE SPACE                               |
| SUBLUG                     | 11,540 |            |       |        | 11,540   |        |       |            |         | UNUS  | ABLE SPACE                               |
| SUBLUG                     | 9,700  |            |       |        |          | 9,700  |       |            |         | UNUS  | ABLE SPACE                               |
| NOTES (AS APPLICABLE):     |        |            |       | 15,080 | 17,120   | 17,240 | TTL P | HASE VA    | 225     | A. BL | IS (COPPER, UNO)                         |
| 1. UTILIZE EXITING BREAKER |        |            |       | 126    | 143      | 144    |       | HASE AMPS  |         | A. MA |                                          |

| TYPE:                               | 208    | 120        | VOLTS | , 3    | PHASE,   | 4      | WIRE  |            | PROVIDE | XX    | EQUIPMENT GROUND BUS               |
|-------------------------------------|--------|------------|-------|--------|----------|--------|-------|------------|---------|-------|------------------------------------|
| BOLT-ON                             | MOUNT: | SURFACE    |       |        |          | 1      |       |            | IF      | ХХ    | 100 % NEUTRAL BUS                  |
| HINGED TRIM                         | FEED:  | TOP        | 1     |        |          |        |       |            | CHECKED |       | ULSE LABEL                         |
|                                     | NEMA - | 1          | ENCLO | OSURE  |          |        |       |            |         |       | ISOLATED GROUND BAR                |
|                                     | LOAD   | CKT BKR    | CKT   | Ph     | ASE LOAD | ) VA   | CKT   | CKT BKR    | LOAD    |       |                                    |
| LOAD SERVED                         | VA     | TRIP/POLES | #     | Α      | В        | С      | #     | TRIP/POLES | VA      | LOAD  | SERVED                             |
| (X)EX REC ELEC MECH IDF             | 1,260  | 20/1       | 1     | 2,520  |          |        | 2     | 15/1       | 1,260   | (X)RE | C SOUTH OFFICES                    |
| (X)EX REC TELEPHONE                 | 900    | 20/1       | 3     |        | 1,800    |        | 4     | 20/1       | 900     | (X)RE | C SOUTH OFFICES                    |
| (X)EX REC MENS RESTROOM             | 360    | 20/1       | 5     |        |          | 1,440  | 6     | 20/1       | 1,080   | (X)RE | C SOUTH OFFICES                    |
| (X)EX REC WOMENS RESTROOM           | 360    | 20/1       | 7     | 1,800  |          |        | 8     | 20/1       | 1,440   | (X)RE | C SOUTH OFFICES (LOAD UPDATED)     |
| (X)EX WATERCOOLER                   | 800    | 20/1       | 9     |        | 2,060    |        | 10    | 20/1       | 1,260   | (X)RE | C SOUTH OFFICES                    |
| (X)SPARE                            | 200    | 15/1       | 11    |        |          | 1,280  | 12    | 20/1       | 1,080   | (X)RE | C SOUTH OFFICES                    |
| (X)EX EMCS/HVAC CONTROLS            | 500    | 20/1       | 13    | 1,600  |          |        | 14    | 20/1       | 1,100   | (X)RE | C SOUTH OFFICES, DR PWR (LOAD UPD) |
| (X)EX EMCS/HVAC CONTROLS            | 500    | 20/1       | 15    |        | 1,940    |        | 16    | 20/1       | 1,440   | (X)RE | C SOUTH OFFICES (LOAD UPDATED)     |
| (X)EX EMCS/HVAC CONTROLS            | 500    | 20/1       | 17    |        |          | 1,400  | 18    | 20/1       | 900     | (X)RE | C SOUTH OFFICES                    |
| (X)SCANNER ROOM                     | 500    | 20/1       | 19    | 550    |          |        | 20    | 15/1       | 50      | (X)EX | HAUST FAN                          |
| (X)SCANNER ROOM                     | 500    | 20/1       | 21    |        | 500      |        | 22    | 15/1       |         | SPAR  | E (NOTE 2)                         |
| (X)REC OPEN OFFICE RM 330           | 540    | 20/1       | 23    |        |          | 690    | 24    | 20/1       | 150     | (X)EX | HAUST FANS                         |
| (X)REC SOUTH OFFICES                | 1,440  | 20/1       | 25    | 1,440  |          |        | 26    | -          |         | SPAC  | E                                  |
| (X)REC SOUTH OFFICES                | 1,080  | 20/1       | 27    |        | 1,080    |        | 28    | -          |         | SPAC  | E                                  |
| (X)REC SOUTH OFFICES (LOAD UPDATED) | 1,260  | 20/1       | 29    |        |          | 1,260  | 30    | -          |         | SPAC  | E                                  |
| SPACE                               |        | -          | 31    |        |          |        | 32    | -          |         | SPAC  | E                                  |
| SPACE                               |        | -          | 33    |        |          |        | 34    | -          |         | SPAC  | E                                  |
| SPACE                               |        | -          | 35    |        |          |        | 36    | -          |         | SPAC  | E                                  |
| SPACE                               |        | -          | 37    |        |          |        | 38    | -          |         | SPAC  | E                                  |
| SPACE                               |        | -          | 39    |        |          |        | 40    | -          |         | SPAC  | E                                  |
| SPACE                               |        | -          | 41    |        |          |        | 42    | -          |         | SPAC  | E                                  |
| SUBLUG                              | 8,920  |            |       | 8,920  |          |        |       |            |         | UNUS  | ABLE SPACE                         |
| SUBLUG                              | 5,380  |            |       |        | 5,380    |        |       |            |         | UNUS  | ABLE SPACE                         |
| SUBLUG                              | 6,620  |            |       |        |          | 6,620  |       |            |         | UNUS  | ABLE SPACE                         |
| NOTES (AS APPLICABLE):              |        |            |       | 16,830 | 12,760   | 12,690 | TTL P | HASE VA    | 225     | A. BL | IS (COPPER, UNO)                   |
| 1. LABEL BREAKER SPARE              |        |            |       | 140    | 106      | 106    | TTL P | HASE AMPS  | 225     | A. MA | IN CIRCUIT BREAKER                 |
| 2. UTILIZE EXITING BREAKER          |        |            |       | 40%    | 30%      | 30%    | DUAS  | E BALANCE  | 10      | KAIC  | MINIMUM RATING                     |

| TYPE:                                       | 208    | 120        | VOLTS | , 3   | PHASE,   | 4     | WIRE   |            | PROVIDE | XX    | EQUIPMENT GROUND BUS         |
|---------------------------------------------|--------|------------|-------|-------|----------|-------|--------|------------|---------|-------|------------------------------|
| BOLT-ON                                     | MOUNT: | SURFACE    |       |       |          |       |        |            | IF      | ХХ    | 100 % NEUTRAL BUS            |
| HINGED TRIM                                 | FEED:  | TOP        |       |       |          |       |        |            | CHECKED |       | ULSE LABEL                   |
|                                             | NEMA - | 1          | ENCLO | OSURE |          |       |        |            |         |       | ISOLATED GROUND BAR          |
|                                             | LOAD   | CKT BKR    | CKT   | PH    | ASE LOAD | VA    | CKT    | CKT BKR    | LOAD    |       |                              |
| LOAD SERVED                                 | VA     | TRIP/POLES | #     | Α     | В        | С     | #      | TRIP/POLES | VA      | LOAD  | SERVED                       |
| (X)REC OPEN OFFICE RM 323                   | 720    | 20/1       | 1     | 1,980 |          |       | 2      | 20/1       | 1,260   | (X)RE | C FILE RM 315                |
| (X)REC CONF RM 326, 328, 329                | 900    | 20/1       | 3     |       | 1,620    |       | 4      | 20/1       | 720     | (X)ST | ORE RM 367, 363 COPY RM      |
| (X)REC COPY RM 327                          | 360    | 20/1       | 5     |       |          | 540   | 6      | 20/1       | 180     | (X)RE | C BREAK RM 364               |
| (X)REC NORTH OFFICES                        | 1,260  | 20/1       | 7     | 1,260 |          |       | 8      | -          |         | SPAC  | E                            |
| (X)REC NORTH OFFICES                        | 1,080  | 20/1       | 9     |       | 1,260    |       | 10     | 20/1       | 180     | (X)RE | C BREAK RM 364               |
| (X)REC NORTH OFFICES                        | 1,260  | 20/1       | 11    |       |          | 1,980 | 12     | 20/1       | 720     | (X)RE | C CONFERENCE RM 361          |
| (X)REC NORTH TERMINALS                      | 720    | 20/1       | 13    | 1,440 |          |       | 14     | 20/1       | 720     | (X)RE | C CONFERENCE RM 365          |
| (X)REC NORTH TERMINALS                      | 720    | 20/1       | 15    |       | 1,520    |       | 16     | 20/1       | 800     | (X)VE | NDING MACHINE RM 364         |
| (X)REC N.H TRMNLS, HEATHER OFF 313B (NOTE 2 | 2) 900 | 20/1       | 17    |       |          | 1,700 | 18     | 20/1       | 800     | (X)VE | NDING MACHINE RM 365         |
| (X)REC: MWDI MAIL BOX 314, DR PWR (NOTE 2)  | 740    | 20/1       | 19    | 1,540 |          |       | 20     | 20/1       | 800     | (X)VE | NDING MACHINE RM 366         |
| (X)COPIER RM 327                            | 180    | 20/1       | 21    |       | 980      |       | 22     | 20/1       | 800     | (X)RE | FRIGERATOR RM 364            |
| (X)COPIER RM 327                            | 1,200  | 20/1       | 23    |       |          | 2,400 | 24     | 20/1       | 1,200   | (X)CO | PIER RM 364                  |
| (X)EWH-6 RM 364                             | 1,500  | 20/1       | 25    | 2,700 |          |       | 26     | 20/1       | 1,200   | (X)CO | PIER RM 364                  |
| (X)SYSTEM FURNITURE 330                     |        | 20/1       | 27    |       |          |       | 28     | 20/1       |         | (X)SY | STEM FURNITURE               |
| (X)SYSTEM FURNITURE 330                     |        | 20/1       | 29    |       |          |       | 30     | 20/1       |         | (X)SY | STEM FURNITURE               |
| (X)SYSTEM FURNITURE 330                     |        | 20/1       | 31    |       |          |       | 32     | 20/1       |         | (X)SY | STEM FURNITURE               |
| SPACE                                       |        | -          | 33    |       |          |       | 34     | 20/1       |         | (X)SY | STEM FURNITURE               |
| SPACE                                       |        | -          | 35    |       |          |       | 36     | 20/1       |         | (X)SY | STEM FURNITURE               |
| SPACE                                       |        | -          | 37    |       |          |       | 38     | 20/1       |         | (X)SY | STEM FURNITURE               |
| SPACE                                       |        | -          | 39    |       |          |       | 40     | -          |         | SPAC  | per<br>las                   |
| SPACE                                       |        | -          | 41    |       |          |       | 42     | -          |         | SPAC  |                              |
| NOTES (AS APPLICABLE):                      |        |            |       | 8,920 | 5,380    | 6,620 | TTL PH | HASE VA    | 225     | A. BU | 'S (COPPER, UNO)             |
| 1. UTILIZE EXITING BREAKER                  |        |            |       | 74    | 45       | 55    | TTL PH | HASE AMPS  | 225     | A. MA | IN LUGS AND/OR FEEDER RATING |
|                                             |        |            |       | 43%   | 26%      | 32%   |        | BALANCE    | 10      | KAIC  | MINIMUM RATING               |

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| <u> </u>                                                           | 208       | 120        | VOLTS. | 3      | PHASE.   | 4      | WIRE  |            | PROVIDE | XX    | EQUIPMENT GROUND BUS |
|--------------------------------------------------------------------|-----------|------------|--------|--------|----------|--------|-------|------------|---------|-------|----------------------|
| T-ON                                                               | MOUNT:    | SURFACE    |        |        | ,        |        |       |            | IF      | xx    | 100 % NEUTRAL BUS    |
| GED TRIM                                                           | FEED:     | TOP        |        |        |          |        |       |            | CHECKED |       | ULSE LABEL           |
|                                                                    | NEMA -    | 1          | ENCLO  | SURE   | ]        |        |       |            |         |       | ISOLATED GROUND BAR  |
|                                                                    | LOAD      | CKT BKR    | CKT    | PH     | ASE LOAD | VA     | CKT   | CKT BKR    | LOAD    |       | l                    |
| ) SERVED                                                           | VA        | TRIP/POLES | #      | A      | В        | С      | #     | TRIP/POLES | VA      | LOAD  | SERVED               |
| : CITY FUTURE GROWTH (NOTE 1)                                      | 900       | 20/1       | 1      | 1,980  |          |        | 2     | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 330  |
| S: TECH LAB 330.3, DR PWR (NOTE 1)                                 | 720       | 20/1       | 3      |        | 1,800    |        | 4     | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 330  |
| S: TECH LAB 330.3, EVID 330.2, DR PWR (NO                          | TE 1) 720 | 20/1       | 5      |        |          | 1,800  | 6     | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 330  |
| YSTEMS FURNITURE 362                                               | 720       | 20/1       | 7      | 1,800  |          |        | 8     | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 330  |
| SYSTEMS FURNITURE 362                                              | 720       | 20/1       | 9      |        | 1,800    |        | 10    | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 330  |
| SYSTEMS FURNITURE 362                                              | 720       | 20/1       | 11     |        |          | 1,800  | 12    | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 330  |
| SYSTEMS FURNITURE 330                                              | 900       | 20/1       | 13     | 1,980  |          |        | 14    | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 323  |
| SYSTEMS FURNITURE 330                                              | 900       | 20/1       | 15     |        | 1,980    |        | 16    | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 323  |
| YSTEMS FURNITURE 330                                               | 900       | 20/1       | 17     |        |          | 1,980  | 18    | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 323  |
| YSTEMS FURNITURE 330                                               | 1,080     | 20/1       | 19     | 1,800  |          |        | 20    | 20/1       | 720     | (X)SY | STEMS FURNITURE 323  |
| YSTEMS FURNITURE 330                                               | 1,080     | 20/1       | 21     |        | 1,800    |        | 22    | 20/1       | 720     | (X)SY | STEMS FURNITURE 323  |
| SYSTEMS FURNITURE 330                                              | 1,080     | 20/1       | 23     |        |          | 1,800  | 24    | 20/1       | 720     | (X)SY | STEMS FURNITURE 323  |
| SYSTEMS FURNITURE 330                                              | 1,080     | 20/1       | 25     | 1,800  |          |        | 26    | 20/1       | 720     | (X)SY | STEMS FURNITURE 323  |
| SYSTEMS FURNITURE 330                                              | 1,080     | 20/1       | 27     |        | 1,800    |        | 28    | 20/1       | 720     | (X)SY | STEMS FURNITURE 323  |
| SYSTEMS FURNITURE 330                                              | 1,080     | 20/1       | 29     |        |          | 1,800  | 30    | 20/1       | 720     | (X)SY | STEMS FURNITURE 323  |
| R POLE RCPS: TECH LAB 330.3 (NOTE 1)                               | 720       | 20/1       | 31     | 1,440  |          |        | 32    | 20/1       | 720     | (X)SY | STEMS FURNITURE 323  |
| R POLE RCPS: TECH LAB 330.3 (NOTE 1)                               | 720       | 20/1       | 33     |        | 1,440    |        | 34    | 20/1       | 720     | (X)SY | STEMS FURNITURE 323  |
| PS: OPEN OFFICE 330 (NOTE 1)                                       | 720       | 20/1       | 35     |        |          | 1,440  | 36    | 20/1       | 720     | (X)SY | STEMS FURNITURE 323  |
| SYSTEMS FURNITURE 330                                              | 1,080     | 20/1       | 37     | 2,160  |          |        | 38    | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 323  |
| SYSTEMS FURNITURE 330                                              | 1,080     | 20/1       | 39     |        | 2,160    |        | 40    | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 323  |
| SYSTEMS FURNITURE 330                                              | 1,080     | 20/1       | 41     |        |          | 2,160  | 42    | 20/1       | 1,080   | (X)SY | STEMS FURNITURE 323  |
| RE                                                                 |           | 20/1       | 43     |        |          |        | 44    | 20/1       |         | SPAR  | E                    |
| ARE                                                                |           | 20/1       | 45     |        |          |        | 46    | 20/1       |         | SPAR  | E                    |
| RE                                                                 |           | 20/1       | 47     |        |          |        | 48    | 20/1       |         | SPAR  | E                    |
| LUG                                                                | 8,780     |            |        | 8,780  |          |        |       |            |         | UNUS  | ABLE SPARE           |
| BLUG                                                               | 6,860     |            |        |        | 6,860    |        |       |            |         | UNUS  | ABLE SPARE           |
| BLUG                                                               | 6,040     |            |        |        |          | 6,040  |       |            |         |       | ABLE SPARE           |
| TES (AS APPLICABLE):                                               |           |            |        | 21,740 | 19,640   | 18,820 |       | HASE VA    | 225     | A. BL | IS (COPPER, UNO)     |
| JTILIZE EXITING BREAKER                                            |           |            |        | 181    | 164      | 157    | TTL P | HASE AMPS  | 225     | A. MA | IN CIRCUIT BREAKER   |
| . PROVIDE BREAKER INDICATED, BRKR AIC MUST MATCH PANEL AIC RATING. |           |            |        |        | 33%      | 31%    | PHAS  | E BALANCE  | 10      | KAIC  | MINIMUM RATING       |

## EXISTING PANEL L3B2 REVISED

| <u>E:</u>                                                       | 208    | 120        | VOLTS | , 3   | PHASE,       | 4         | WIRE |                | PROVIDE                      | XX    | EQUIPMENT GROUND BUS |
|-----------------------------------------------------------------|--------|------------|-------|-------|--------------|-----------|------|----------------|------------------------------|-------|----------------------|
| T-ON                                                            | MOUNT: | SURFACE    |       |       |              |           |      |                | IF                           | XX    | 100 % NEUTRAL BUS    |
| GED TRIM                                                        | FEED:  | TOP        |       |       | _            |           |      |                | CHECKED                      |       | ULSE LABEL           |
|                                                                 | NEMA - | 1          | ENCLC | SURE  |              |           |      |                |                              |       | ISOLATED GROUND BAR  |
|                                                                 | LOAD   | CKT BKR    | CKT   | Ph    | ASE LOAD     | VA        | CKT  | CKT BKR        | LOAD                         |       |                      |
| D SERVED                                                        | VA     | TRIP/POLES | #     | Α     | В            | С         | #    | TRIP/POLES     | VA                           | LOAD  | SERVED               |
| STEMS FURNITURE 323                                             | 720    | 20/1       | 1     | 720   |              |           | 2    | 20/1           |                              |       | E (NOTE 1)           |
| STEMS FURNITURE 323                                             | 720    | 20/1       | 3     |       | 720          |           | 4    | 20/1           |                              | SPAR  | E (NOTE 1)           |
| STEMS FURNITURE 323                                             | 720    | 20/1       | 5     |       |              | 720       | 6    | 20/1           |                              | SPAR  | E (NOTE 1)           |
| : CITY FUTURE GROWTH 323.5 (NOTE 2)                             | 1,080  | 20/1       | 7     | 1,080 |              |           | 8    | 20/1           |                              | SPAR  | E (NOTE 1)           |
| 6: WORK RM 316 (NOTE 2)                                         | 360    | 20/1       | 9     |       | 360          |           | 10   | 20/1           |                              | SPAR  | E (NOTE 1)           |
| : OVERFLOW RM (NOTE 2)                                          | 360    | 20/1       | 11    |       |              | 360       | 12   | 20/1           |                              | SPAR  | E (NOTE 1)           |
| E PENNY OFFICE 323E (NOTE 2)                                    | 720    | 20/1       | 13    | 720   |              |           | 14   | 20/1           |                              | SPAR  | E (NOTE 1)           |
| : FUTURE OFFICE 323D (NOTE 2)                                   | 900    | 20/1       | 15    |       | 900          |           | 16   | 20/1           |                              | SPAR  | E (NOTE 1)           |
| : FUTURE OFFICE 323C (NOTE 2)                                   | 720    | 20/1       | 17    |       |              | 720       | 18   | 20/1           |                              | (X)SP |                      |
| : CLERKS 323, CONF 313A (NOTE 2)                                | 900    | 20/1       | 19    | 900   |              |           | 20   | 20/1           |                              | (X)SP | ARE                  |
| E (NOTE 1)                                                      |        | 20/1       | 21    |       |              |           | 22   | 20/1           |                              | (X)SP | ARE                  |
| E (NOTE 1)                                                      |        | 20/1       | 23    |       |              |           | 24   | 20/1           |                              | (X)SP | ARE                  |
| RE (NOTE 1)                                                     |        | 20/1       | 25    |       |              |           | 26   | 20/1           |                              | (X)SP | ARE                  |
| E (NOTE 1)                                                      |        | 20/1       | 27    |       |              |           | 28   | 20/1           |                              | (X)SY | STEM FURNITURE       |
| E (NOTE 1)                                                      |        | 20/1       | 29    |       |              |           | 30   | 20/1           |                              | (X)SY | STEM FURNITURE       |
| RE (NOTE 1)                                                     |        | 20/1       | 31    |       |              |           | 32   | 20/1           |                              | (X)SY | STEM FURNITURE       |
| RE (NOTE 1)                                                     |        | 20/1       | 33    |       |              |           | 34   | 20/1           |                              | (X)SP | ARE                  |
| E (NOTE 1)                                                      |        | 20/1       | 35    |       |              | 3,520     | 36   | 100/3          | 3,520                        | PANE  | L L3C1 (NOTE 3)      |
| STEMS FURNITURE 313                                             | 720    | 20/1       | 37    | 5,360 |              |           | 38   |                | 4,640                        | Ι     |                      |
| STEMS FURNITURE 313                                             | 720    | 20/1       | 39    | _     | 4,880        |           | 40   | I              | 4,160                        | I     |                      |
| STEMS FURNITURE 313                                             | 720    | 20/1       | 41    |       |              | 720       | 42   | -              |                              | SPAC  | E                    |
| ES (AS APPLICABLE):                                             |        | 8,780      | 6,860 | 6,040 | TTL PHASE VA |           | 225  | A. BL          | IS (COPPER, UNO)             |       |                      |
| BEL BREAKER SPARE                                               |        | 73         | 57    | 50    | TTL P        | HASE AMPS | 225  | A. MA          | IN LUGS AND/OR FEEDER RATING |       |                      |
| TILIZE EXITING BREAKER<br>OVIDE BREAKER INDICATED, BRKR AIC MUS |        | 40%        | 32%   | 28%   | PHAS         | 10        | KAIC | MINIMUM RATING |                              |       |                      |

| PE:                                    | 208       | 120         | VOLT\$ | , 3    | PHASE,   | 4                                                                     | WIRE    |              | PROVIDE                                 | XX      | EQUIPMENT GROUND BUS               |  |  |  |
|----------------------------------------|-----------|-------------|--------|--------|----------|-----------------------------------------------------------------------|---------|--------------|-----------------------------------------|---------|------------------------------------|--|--|--|
| LT-ON                                  | MOUNT:    | SURFACE     | 1      |        |          |                                                                       |         |              | IF                                      | ХХ      | 100 % NEUTRAL BUS                  |  |  |  |
| IGED TRIM                              | FEED:     | ТОР         |        |        |          |                                                                       |         |              | CHECKED                                 |         | ULSE LABEL                         |  |  |  |
|                                        | NEMA -    | 1           | ENCLO  | SURE   |          |                                                                       |         |              |                                         |         | ISOLATED GROUND BAR                |  |  |  |
|                                        | LOAD      | CKT BKR     | CKT    | PHA    | ASE LOAD | ) VA                                                                  | CKT     | CKT BKR      | LOAD                                    |         |                                    |  |  |  |
| AD SERVED                              | VA        | TRIP/POLES  | #      | А      | В        | С                                                                     | #       | TRIP/POLES   | VA                                      | LOAD    | SERVED                             |  |  |  |
| PS: STING-CEN ENTRY 323                | 720       | 20/1        | 1      | 720    |          |                                                                       | 2       | 20/1         |                                         | SPARI   | Ξ                                  |  |  |  |
| PS: OFFICE 323.2, 323.3                | 720       | 20/1        | 3      |        | 720      |                                                                       | 4       | 20/1         |                                         | SPAR    | E                                  |  |  |  |
| PS: OFFICE 323.4, STING CENTER 323.1   | 720       | 20/1        | 5      |        |          | 720                                                                   | 6       | 20/1         |                                         | SPARI   | E                                  |  |  |  |
| PS: STING CENTER 323.1                 | 720       | 20/1        | 7      | 720    |          |                                                                       | 8       | 20/1         |                                         | SPARI   |                                    |  |  |  |
| P: STING AV EQUP RACK 323.1            | 1,200     | 20/1        | 9      |        | 1,200    |                                                                       | 10      | 20/1         |                                         | SPARI   | <b></b>                            |  |  |  |
| /R POLE RCPS: STING CENTER 323.1       | 720       | 20/1        | 11     |        |          | 720                                                                   | 12      | 20/1         |                                         | SPARI   | <u> </u>                           |  |  |  |
| R POLE RCPS: STING CENTER 323.1        | 720       | 20/1        | 13     | 720    |          |                                                                       | 14      | 20/1         |                                         | SPARI   | <u> </u>                           |  |  |  |
| R POLE RCPS: STING CENTER 323.1        | 720       | 20/1        | 15     |        | 720      |                                                                       | 16      | 20/1         |                                         | SPARI   |                                    |  |  |  |
| R POLE RCPS: STING CENTER 323.1        | 720       | 20/1        | 17     |        |          | 720                                                                   | 18      | 20/1         |                                         | SPARI   | E                                  |  |  |  |
| R POLE RCPS: STING CENTER 323.1        | 360       | 20/1        | 19     | 360    |          |                                                                       | 20      | 20/1         |                                         | SPARI   | E                                  |  |  |  |
| PS: TV WALL STING CENTER 323.1         | 1,000     | 20/1        | 21     |        | 1,000    | _                                                                     | 22      | 20/1         |                                         | SPARI   |                                    |  |  |  |
| PS: TV WALL STING CENTER 323.1         | 1,000     | 20/1        | 23     |        |          | 1,000                                                                 | 24      | 20/1         |                                         | SPARI   |                                    |  |  |  |
| PS: TV WALL STING CENTER 323.1         | 1,000     | 20/1        | 25     | 1,000  |          |                                                                       | 26      | 20/1         |                                         | SPARI   |                                    |  |  |  |
| PS: TV WALL STING CENTER 323.1         | 1,000     | 20/1        | 27     |        | 1,000    |                                                                       | 28      | 20/1         |                                         | SPARI   |                                    |  |  |  |
| PS: TV WALL STING CENTER 323.1         | 1,000     | 20/1        | 29     |        |          | 1,000                                                                 | 30      | 20/1         |                                         | SPARI   |                                    |  |  |  |
| ARE                                    |           | 20/1        | 31     |        |          |                                                                       | 32      | 20/1         |                                         | SPARI   |                                    |  |  |  |
| ARE                                    |           | 20/1        | 33     |        |          |                                                                       | 34      | 20/1         |                                         | SPARI   |                                    |  |  |  |
| ARE                                    |           | 20/1        | 35     |        |          |                                                                       | 36      | 20/1         |                                         | SPARI   |                                    |  |  |  |
| ARE                                    |           | 20/1        | 37     |        |          |                                                                       | 38      | 20/1         |                                         | SPARI   |                                    |  |  |  |
| ARE                                    |           | 20/1        | 39     |        |          |                                                                       | 40      | 20/1         |                                         | SPARI   |                                    |  |  |  |
|                                        |           | 20/1        | 41     |        |          |                                                                       | 42      | 20/1         |                                         | SPAR    |                                    |  |  |  |
|                                        |           |             | I      | 3,520  | 4,640    | 4,160                                                                 |         | HASE VA      |                                         |         | S (COPPER, UNO)                    |  |  |  |
|                                        |           |             | ŀ      | 29     | 39       | 35                                                                    |         | HASE AMPS    |                                         |         |                                    |  |  |  |
| SEE ESTIMATED LOAD SUMMARY FOR SERVICE | SIZING CA | LCULATIONS. | ļ      | 29%    | 38%      | 34%                                                                   | PHASE   | BALANCE      | 10                                      | KAIC    | /INIMUM RATING                     |  |  |  |
|                                        | CONN.     | DEMAND      |        | DEMAND |          | ADDITIO                                                               | NAL NO  | TES (AS APPL | ICABLE):                                |         |                                    |  |  |  |
| MAND SUMMARY:                          | (VA)      | FACTOR      |        | (VA)   |          | 3. NUME                                                               | BERS IN | PARENTHESI   | S REPRESE                               | ENT KIT | CHEN EQUIPMENT NUMBERS.            |  |  |  |
| TAL RECEPTACLES (VA) = 10,320          |           |             |        |        |          | 4. PROV                                                               | IDE CIR | CUIT BREAKE  | R LOCKING                               | DEVIC   | E WHERE NOTED AND FOR FACU AND UNI |  |  |  |
| RECEPTACLES FIRST 10 KVA               | 10,000    | 1.00        |        | 10,000 |          | TYPE SMOKE DETECTOR CIRCUITS.                                         |         |              |                                         |         |                                    |  |  |  |
| RECEPTACLES > 10 KVA                   | 320       | 0.50        |        | 160    |          | 5. PROVIDE ARC FAULT CIRCUIT BREAKERS FOR ALL 120V, 15A & 20A PATIENT |         |              |                                         |         |                                    |  |  |  |
| HTING                                  |           | 1.25        |        |        |          | ROOM BRANCH CIRCUITS SUPPLYING OUTLETS AND DEVICES.                   |         |              |                                         |         |                                    |  |  |  |
| CELLANEOUS EQUIPMENT                   |           | 1.00        |        |        |          | 6. COOF                                                               | RDINATE | SPD CIRCUIT  | CIRCUIT BREAKER TRIP WITH SPD PROVIDED. |         |                                    |  |  |  |
| HER EQUIPMENT (CONTINUOUS)             |           | 1.25        |        |        |          |                                                                       |         | CIRCUIT BREA | KER.                                    |         |                                    |  |  |  |
| RGEST MOTOR                            |           | 1.25        |        |        |          |                                                                       |         | BRAKER.      |                                         |         |                                    |  |  |  |
| AC EQUIPMENT (FLA = MCA X 0.8)         |           | 1.00        |        |        |          |                                                                       |         | ADS ARE EST  |                                         |         |                                    |  |  |  |
| CHEN EQUIPMENT                         |           | 1.00        | -      |        |          |                                                                       |         |              |                                         |         | NEC TABLE 220.56                   |  |  |  |
| TOTAL CONNECTED (VA)                   | 10,320    |             |        |        |          |                                                                       |         |              |                                         |         | ED WITH AN ARC ENERGY REDUCTION    |  |  |  |
| TOTAL DEMAND (VA)                      |           |             |        | 10,160 |          |                                                                       |         | CE SWITCH PI |                                         |         |                                    |  |  |  |
| TOTAL DEMAND (AMPERES)                 |           |             |        | 28.2   |          | 11. PRO\                                                              | /IDE CB | WITH SHUNT   | TRIP ACCE                               | SSOR    | <i>′</i> .                         |  |  |  |
| PANEL DEMAND LOADING VS RATING         | 12.5%     |             |        |        |          |                                                                       |         |              |                                         |         |                                    |  |  |  |



EXISTING PANEL HE1 REVISED

| TYPE:                      | 480    | 277        | VOLTS | , 3   | PHASE,   | 4      | WIRE  |            | PROVIDE | XX EQUIPMENT GRC      |
|----------------------------|--------|------------|-------|-------|----------|--------|-------|------------|---------|-----------------------|
| BOLT-ON                    | MOUNT: | SURFACE    |       |       |          |        |       |            | IF      | XX 100 % NEUTRA       |
| HINGED TRIM                | FEED:  | TOP        | 1     |       |          |        |       |            | CHECKED | ULSE LABEL            |
|                            | NEMA - | 1          | ENCLC | SURE  |          |        |       |            |         | ISOLATED GROU         |
|                            | LOAD   | CKT BKR    | CKT   | Pł    | ASE LOAD | VA     | CKT   | CKT BKR    | LOAD    |                       |
| LOAD SERVED                | VA     | TRIP/POLES | #     | Α     | В        | С      | #     | TRIP/POLES | VA      | LOAD SERVED           |
| (X)PENDANTS CC HALL (EM)   |        | 20/1       | 1     | 894   |          |        | 2     | 20/1       | 894     | LTS: CITY COUNCIL 154 |
| (X)EM LIGHTS               |        | 20/1       | 3     |       | 1,260    |        | 4     | 20/1       | 1,400   | LTS: CITY COUNCIL 154 |
| (X)EM LIGHTS (WEST 1ST)    |        | 20/1       | 5     |       |          | 1,560  | 6     | 20/1       | 840     | LTS: CITY COUNCIL 154 |
|                            |        |            | 7     | 1,080 |          |        | 8     |            |         |                       |
|                            |        |            | 9     |       | 1,520    |        | 10    |            |         |                       |
|                            |        |            | 11    |       |          | 1,820  | 12    |            |         |                       |
|                            |        |            | 13    | 680   |          |        | 14    |            |         |                       |
|                            |        |            | 15    |       | 860      |        | 16    |            |         |                       |
|                            |        |            | 17    |       |          | 860    | 18    |            |         |                       |
|                            |        |            | 19    | 500   |          |        | 20    |            |         |                       |
|                            |        |            | 21    |       | 500      |        | 22    |            |         |                       |
|                            |        |            | 23    |       |          | 1,080  | 24    |            |         |                       |
|                            |        |            | 25    | 720   |          |        | 26    |            |         |                       |
|                            |        |            | 27    |       |          |        | 28    |            |         |                       |
|                            |        |            | 29    |       |          |        | 30    |            |         |                       |
| SPARE                      |        | 20/1       | 31    |       |          |        | 32    | -          |         | SPACE                 |
| SPARE                      |        | 20/1       | 33    |       |          |        | 34    | -          |         | SPACE                 |
| (X)EM LIGHTS               | 930    | 20/1       | 35    |       |          | 930    | 36    | -          |         | SPACE                 |
| (X)PANEL LE2               | 4,421  | 50/3       | 37    | 4,421 |          |        | 38    | -          |         | SPACE                 |
|                            | 5,386  |            | 39    |       | 5,386    |        | 40    | -          |         | SPACE                 |
|                            | 3,825  |            | 41    |       |          | 3,825  | 42    | -          |         | SPACE                 |
| NOTES (AS APPLICABLE):     |        |            |       | 8,295 | 9,526    | 10,075 | TTL P | HASE VA    | 100     | A. BUS (COPPER, UNO)  |
| 1. UTILIZE EXITING BREAKER |        |            | 1     | 30    | 34       | 36     | TTL P | HASE AMPS  | 100     | A. MAIN CIRCUIT BREAK |
|                            |        |            |       | 30%   | 34%      | 36%    | DUIAO | E BALANCE  | 10      | KAIC MINIMUM RATING   |

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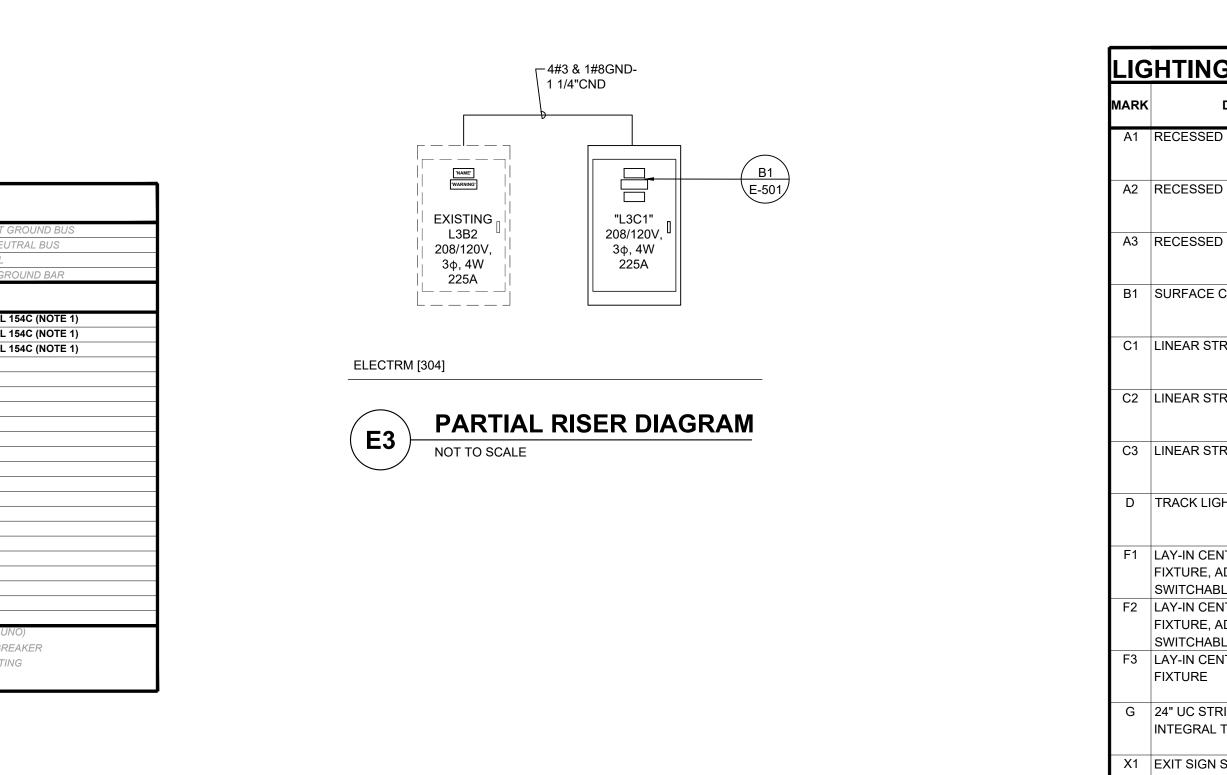
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| TYPE:                                      | 480 277 VOLTS, 3 P |            | PHASE, | PHASE, 4 WIRE |        |             | PROVIDE          | XX EQUIPMENT GROUND BUS |         |                                          |  |  |  |
|--------------------------------------------|--------------------|------------|--------|---------------|--------|-------------|------------------|-------------------------|---------|------------------------------------------|--|--|--|
| BOLT-ON                                    | MOUNT:             | SURFACE    |        |               |        |             |                  |                         | IF      | XX 100 % NEUTRAL BUS                     |  |  |  |
| HINGED TRIM                                | FEED:              | TOP        |        |               |        |             |                  |                         | CHECKED | ULSE LABEL                               |  |  |  |
|                                            | NEMA - 1 ENC       |            |        | ENCLOSURE     |        |             |                  |                         |         | ISOLATED GROUND BAR                      |  |  |  |
|                                            | LOAD               | CKT BKR    | CKT    | CKT PHA       |        | ASE LOAD VA |                  | CKT BKR                 | LOAD    |                                          |  |  |  |
| LOAD SERVED                                | VA                 | TRIP/POLES | #      | Α             | В      | С           | #                | TRIP/POLES              | VA      | LOAD SERVED                              |  |  |  |
| X)EX LTS CORE                              | 868                | 20/1       | 1      | 3,487         |        |             | 2                | 20/1                    | 2,619   | LTS: B WEST, CORR 161.11                 |  |  |  |
| X)LTS: A ELEV VESTIBULE                    | 1,664              | 20/1       | 3      |               | 3,218  |             | 4                | 20/1                    | 1,554   | LTS: B CUSTOMER SERVICE 150, 150.7 (NOTE |  |  |  |
| X)LTS: A NORTH                             | 1,240              | 20/1       | 5      |               |        | 3,774       | 6                | 20/1                    | 2,534   | (X)LTS: B NORTH                          |  |  |  |
| X)LTS: A NORTH                             | 2,108              | 20/1       | 7      | 4,092         |        |             | 8                | 20/1                    | 1,984   | (X)LTS: B NORTH                          |  |  |  |
| X)LTS: A NORTH                             | 1,362              | 20/1       | 9      |               | 3,168  |             | 10               | 20/1                    | 1,806   | (X)LTS: B NORTH CORR                     |  |  |  |
| TS: A RSTRM, PLNG CUCT SERV 150.0 (NOTE 1) | 1,850              | 20/1       | 11     |               |        | 4,458       | 12               | 20/1                    | 2,608   | (X)LTS: B NORTH CORR                     |  |  |  |
| X)LTS: A CONF CENTER CORR                  | 3,662              | 20/1       | 13     | 5,292         |        |             | 14               | 20/1                    | 1,630   | (X)LTS: B LOBBY                          |  |  |  |
| X)LTS: A VISITOR CENTER                    | 1,536              | 20/1       | 15     |               | 3,972  |             | 16               | 20/1                    | 2,436   | (X)LTS: B SOUTH                          |  |  |  |
| X)LTS: A VISITOR CENTER                    | 1,950              | 20/1       | 17     |               |        | 3,782       | 18               | 20/1                    | 1,832   | (X)LTS: B CLINIC                         |  |  |  |
| SPACE                                      |                    | 20/1       | 19     | 3,750         |        |             | 20               | 20/1                    | 3,750   | (X)LTS: B CAFÉ                           |  |  |  |
| X)LTS A CONF CENT4ER CORR                  | 2,065              | 20/1       | 21     |               | 3,829  |             | 22               | 20/1                    | 1,764   | (X)LTS: B CAFÉ                           |  |  |  |
| SPACE                                      |                    | -          | 23     |               |        |             | 24               | -                       |         | SPACE                                    |  |  |  |
| SPACE                                      |                    | -          | 25     |               |        |             | 26               | _                       |         | SPACE                                    |  |  |  |
| SPACE                                      |                    | -          | 27     |               |        |             | 28               | -                       |         | SPACE                                    |  |  |  |
| SPACE                                      |                    | -          | 29     |               |        |             | 30               | -                       |         | SPACE                                    |  |  |  |
| SPACE                                      |                    | -          | 31     |               |        |             | 32               | -                       |         | SPACE                                    |  |  |  |
| SPACE                                      |                    | -          | 33     |               |        |             | 34               | -                       |         | SPACE                                    |  |  |  |
| SPACE                                      |                    | -          | 35     |               |        |             | 36               | -                       |         | SPACE                                    |  |  |  |
| SPACE                                      |                    | -          | 37     |               |        |             | 38               | -                       |         | SPACE                                    |  |  |  |
| SPACE                                      |                    | -          | 39     |               |        |             | 40               | -                       |         | SPACE                                    |  |  |  |
| SPACE                                      |                    | -          | 41     |               |        |             | 42               | -                       |         | SPACE                                    |  |  |  |
| NOTES (AS APPLICABLE):                     |                    |            |        | 16,621        | 14,187 | 12,014      | TTL PI           | HASE VA                 | 400     | A. BUS (COPPER, UNO)                     |  |  |  |
| 1. UTILIZE EXISTING BREAKER                |                    |            |        |               | 51     | 43          | TTL PHASE AMPS   |                         | 400     | A. MAIN LUGS AND/OR FEEDER RATING        |  |  |  |
|                                            |                    |            |        |               | 33%    | 28%         | 8% PHASE BALANCE |                         | 10      | KAIC MINIMUM RATING                      |  |  |  |

| PE:                                     | 480                | 277        | VOLTS | , 3    | PHASE, 4 WIRE |           |        |                     | PROVIDE | XX EQUIPMENT GROUND BUS               |  |  |  |
|-----------------------------------------|--------------------|------------|-------|--------|---------------|-----------|--------|---------------------|---------|---------------------------------------|--|--|--|
| DLT-ON                                  | MOUNT:             | SURFACE    |       |        |               |           |        |                     | IF      | XX 100 % NEUTRAL BUS                  |  |  |  |
| NGED TRIM                               | FEED:              | TOP        |       |        |               |           |        |                     | CHECKED | ULSE LABEL                            |  |  |  |
|                                         | NEMA -             | 1          | ENCLO | LOSURE |               |           |        |                     |         | ISOLATED GROUND BAR                   |  |  |  |
|                                         | LOAD               | CKT BKR    | CKT   | PH     | ASE LOAD      | VA        | CKT    | CKT BKR             | LOAD    |                                       |  |  |  |
| AD SERVED                               | VA                 | TRIP/POLES | #     | Α      | В             | С         | #      | TRIP/POLES          | VA      | LOAD SERVED                           |  |  |  |
| EX LTS CORE                             | 868                | 20/1       | 1     | 2,337  |               |           | 2      | 20/1                | 1,469   | LIGHTS STING (NOTE 1)                 |  |  |  |
| HTS NORTH, PENNY OFFICE, CLERK SUITE (N | OTE <b>1</b> ,)557 | 20/1       | 3     |        | 4,125         |           | 4      | 20/1                | 2,568   | LIGHTS WEST, CORR                     |  |  |  |
| HTS NORTH, OFFICES 316,326 (NOTE 1)     | 2,378              | 20/1       | 5     |        |               | 3,445     | 6      | 20/1                | 1,067   | LIGHTS SOUTH, TECH LAB 330.3 (NOTE 1) |  |  |  |
| IGHTS EAST                              | 2,000              | 20/1       | 7     | 4,232  |               |           | 8      | 20/1                | 2,232   | (X)LIGHTS SOUTH                       |  |  |  |
| .IGHTS EAST                             | 682                | 20/1       | 9     |        | 2,294         |           | 10     | 20/1                | 1,612   | X)LIGHTS SOUTH                        |  |  |  |
| IGHTS PERIMETER EAST                    | 1,054              | 20/1       | 11    |        |               | 4,332     | 12     | 20/1                | 3,278   | (X)LIGHTS MAIN CORRIDOR               |  |  |  |
| SPARE                                   |                    | 20/1       | 13    |        |               |           | 14     | -                   |         | SPACE                                 |  |  |  |
| UTRON POWER                             |                    | 20/1       | 15    |        |               |           | 16     | -                   |         | SPACE                                 |  |  |  |
| SPARE                                   |                    | 20/1       | 17    |        |               |           | 18     | -                   |         | SPACE                                 |  |  |  |
| ACE                                     |                    | -          | 19    |        |               |           | 20     | -                   |         | SPACE                                 |  |  |  |
| ICE                                     |                    | -          | 21    |        |               |           | 22     | -                   |         | SPACE                                 |  |  |  |
| ICE                                     |                    | -          | 23    |        |               |           | 24     | -                   |         | SPACE                                 |  |  |  |
| CE                                      |                    | -          | 25    |        |               |           | 26     | -                   |         | SPACE                                 |  |  |  |
| ICE                                     |                    | -          | 27    |        |               |           | 28     | -                   |         | SPACE                                 |  |  |  |
| ACE                                     |                    | -          | 29    |        |               |           | 30     | -                   |         | SPACE                                 |  |  |  |
| ICE                                     |                    | -          | 31    |        |               |           | 32     | -                   |         | SPACE                                 |  |  |  |
| ACE                                     |                    | -          | 33    |        |               |           | 34     | -                   |         | SPACE                                 |  |  |  |
| ACE                                     |                    | -          | 35    |        |               |           | 36     | -                   |         | SPACE                                 |  |  |  |
| ACE                                     |                    | -          | 37    |        |               |           | 38     | -                   |         | SPACE                                 |  |  |  |
| ACE                                     |                    | -          | 39    |        |               |           | 40     | -                   |         | SPACE                                 |  |  |  |
| ACE                                     |                    | -          | 41    |        |               |           | 42     | -                   |         | SPACE                                 |  |  |  |
| TES (AS APPLICABLE):                    |                    |            | -     | 6,569  | 6,419         | 7,777     | TTL PI | HASE VA             | 400     | A. BUS (COPPER, UNO)                  |  |  |  |
| UTILIZE EXISTING BREAKER                |                    |            |       |        | 23            | 28        |        | HASE AMPS           | 400     | A. MAIN LUGS AND/OR FEEDER RATING     |  |  |  |
|                                         |                    | 32%        | 31%   | 37%    |               | E BALANCE | 10     | KAIC MINIMUM RATING |         |                                       |  |  |  |

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|             | LIGHTING FIXTURE SCHEDULE                                                    |                                                                                     |                       |                                            |       |       |                            |                    |                              |                                |         |  |  |
|-------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|--------------------------------------------|-------|-------|----------------------------|--------------------|------------------------------|--------------------------------|---------|--|--|
| LIG<br>mark | DESCRIPTION                                                                  | MANUFACTURER/SERIES                                                                 | NOM.<br>SIZE          | SOURCE / TEMP(oK)<br>/ DELIVERED<br>LUMENS | VOLTS | WATTS | LENS                       | COLOR/<br>MATERIAL | MOUNTING<br>HEIGHT           | DRIVER/<br>DIMMING             | REMARKS |  |  |
| A1          | RECESSED CAN - ROUND                                                         | GOTHAM ARCH LIGHTING:<br>IVO6S D 50LM 40K 90CRI<br>MWD P AR LSS                     |                       | LEDs /<br>4000K /<br>4406 LUMENS           | MVOLT | 50    | ACRYLIC                    | WHITE/<br>ALUMINUM | RECESSED                     | LED DRIVER<br>0-10V<br>DIMMING | 4       |  |  |
| A2          | RECESSED CAN - SQUARE                                                        | LITHONIA: LDN6SQ 35/15 LS6WR                                                        | 6"x                   | LEDs /<br>3500K /<br>1500 LUMENS           | MVOLT | 18    | ACRYLIC                    | WHITE              | RECESSED                     | LED DRIVER<br>0-10V<br>DIMMING | 7       |  |  |
| A3          | RECESSED CAN - ROUND                                                         | LITHONIA: LDN6 35/15 LS6WR                                                          | 6"x                   | LEDs /<br>3500K /<br>1500 LUMENS           | MVOLT | 18    | ACRYLIC                    | WHITE              | RECESSED                     | LED DRIVER<br>0-10V<br>DIMMING |         |  |  |
| B1          | SURFACE CYLINDER                                                             | GOTHAM ARCH LIGHTING:<br>IVO6CYL D 50LM 40K 90CRI<br>MWD P AR LSS                   |                       | LEDs /<br>4000K /<br>4406 LUMENS           | MVOLT | 50    |                            | BLACK              | SURFACE                      | LED DRIVER<br>0-10V<br>DIMMING | 4       |  |  |
| C1          | LINEAR STRIP                                                                 | PRUDENTIAL LIGHTING:<br>BPRO4-REC-FLSH-LED4-90-HO-<br>4'-TMW-BTW-WTW-SC-UNV-X11-ECO | 4'                    | LEDs /<br>4000K /<br>4739                  | MVOLT | 42    |                            |                    | RECESSED                     | LED DRIVER<br>0-10V<br>DIMMING | 4       |  |  |
| C2          | LINEAR STRIP                                                                 | MARK LIGHTING: SLOT 4 SL4L 6<br>FLP 80CRI 35K 800LMF                                | 4'                    | LEDs /<br>3500K /<br>3200 LUMENS           | MVOLT | 32    | ACRYLIC                    | WHITE/<br>ALUMINUM | RECESSED                     | LED DRIVER<br>0-10V<br>DIMMING |         |  |  |
| C3          | LINEAR STRIP                                                                 | MARK LIGHTING: SLOT 4 SL4L 4<br>FLP 80CRI 35K 800LMF                                | 6'                    | LEDs /<br>3500K /<br>4800 LUMENS           | MVOLT | 48    | ACRYLIC                    | WHITE/<br>ALUMINUM | RECESSED                     | LED DRIVER<br>0-10V<br>DIMMING |         |  |  |
| D           | TRACK LIGHTING                                                               | SEE DRAWINGS PROVIDED BY<br>BARBAZON LIGHTING                                       |                       |                                            |       |       |                            |                    |                              |                                |         |  |  |
| F1          | LAY-IN CENTER ELEMENT<br>FIXTURE, ADJUSTABLE LUMEN /<br>SWITCHABLE LED COLOR | LITHONIA: STAKS 2X4 ALO6 SWW7<br>MEDIUM LUMEN 3500K                                 | 2'x4'x4"              | LEDs /<br>3500K /<br>5000 LUMENS           | MVOLT | 40    | ACRYLIC                    | WHITE/<br>ALUMINUM | RECESSED                     | LED DRIVER<br>0-10V<br>DIMMING | 1       |  |  |
| F2          | LAY-IN CENTER ELEMENT<br>FIXTURE, ADJUSTABLE LUMEN /<br>SWITCHABLE LED COLOR | LITHONIA: STAKS 2X4 ALO6 SWW7<br>HIGH LUMEN 3500K                                   | 2'x4'x4"              | LEDs /<br>3500K /<br>6000 LUMENS           | MVOLT | 49    | ACRYLIC                    | WHITE/<br>ALUMINUM | RECESSED                     | LED DRIVER<br>0-10V<br>DIMMING | 1       |  |  |
| F3          | LAY-IN CENTER ELEMENT<br>FIXTURE                                             | LITHONIA: STAK 2X4 7200LM<br>80CRI 35K COLT EZT                                     | 2'x4'x4"              | LEDs /<br>3500K /<br>7000 LUMENS           | MVOLT | 55    | ACRYLIC                    | WHITE/<br>ALUMINUM | RECESSED                     | LED DRIVER<br>0-10V<br>DIMMING | 4       |  |  |
| G           | 24" UC STRIP LIGHT W/<br>INTEGRAL TOGGLE SWITCH                              | COMMERCIAL ELECTRIC                                                                 | 24"x<br>1.7"x<br>1.1" | LEDs /<br>4000K /<br>700 LUMENS            | 120V  | 11    |                            | WHITE              | SURFACE                      |                                |         |  |  |
| X1          | EXIT SIGN SINGLE FACE                                                        | LITHONIA: BE W R UN                                                                 |                       | LEDs                                       | MVOLT | 10    | RED<br>LETTERS<br>MIRRORED | ALUMINUM           | RECESSED<br>CEILING/<br>WALL |                                |         |  |  |
| X2          | EXIT SIGN DOUBLE FACE                                                        | LITHONIA: BE W R UN                                                                 |                       | LEDs                                       | MVOLT | 10    | RED<br>LETTERS<br>MIRRORED | ALUMINUM           | RECESSED<br>CEILING/<br>WALL |                                |         |  |  |
| REMA        |                                                                              |                                                                                     |                       |                                            |       |       |                            |                    |                              |                                |         |  |  |

1. 0-10V DIMMNING TO 10% 4. PROVIDE eldoLED 0-10V DIMMING 2. DAMP LOCATION 5. LED REQUIRED SURGE PROTECTION

7. FINAL COLOR SELECTION BY ARCHITECT 8. USER DEFINED

3. WET LOCATION 6. VERIFY FINAL MOUNTING HEIGHT WITH ARCHITECT 9. USER DEFINED GENERAL NOTES:

A. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE. B. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES.

NO SUBSTITUTIONS WILL BE ALLOWED DUE TO THE LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID.

ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTORS.

. THE ELECTRICAL CONTRACTOR SHALL RECEIVE APPROVAL FOR ALL LIGHTING FIXTURES FROM THE ARCHITECT/OWNER PRIOR TO PURCHASE AND ROUGH-IN. FIXTURES INSTALLED IN CEILINGS INDICATED ON THE ARCHITECTURAL PLANS AS HAVING INSULATION IN CONTACT WITH THE CEILING SURFACE SHALL BE MANUFACTURER RATED

ALL LIGHTING FIXTURES PENETRATING RATED FLOOR/CEILING ASSEMBLY SHALL BE PROVIDED WITH ACCESSORIES TO MAINTAIN ASSEMBLY FIRE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL RATINGS.

H. "NL" ADJACENT TO FIXTURE INDICATES AN UNSWITCHED 24 HOUR NIGHT LIGHT. THE FIXTURE SHALL BE CONNECTED TO THE UNSWITCHED INDICATED CIRCUIT.

LED MODULES SHALL BE REPLACEABLE.

REMARKS:

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J. ACRYLIC PRISMATIC LENSES SHALL BE 0.125" NOMINAL MINIMUM THICKNESS. K. ALL EXIT AND EMERGENCY FIXTURES SHALL COMPLY WITH NCSBC STANDARDS AND HAVE AUTOMATIC TESTING DEVICES.

LED EMERGENCY BATTERY SHALL PROVIDE FULL RATED FIXTURE OUTPUT FOR 90 MINUTES MINIMUM.

M. SEE SPECIFICATIONS SECTIONS 265100 AND 265200 FOR ADDITIONAL REQUIREMENTS.

N. THE FIRST FIXTURE NAMED IN THE MANUFACTURER COLUMN IS THE BASIS OF DESIGN. OTHER FIXTURES ARE SIMILAR IN THE OPINION OF THE ARCHITECT AND ENGINEER. IF THE CONTRACTOR ELECTS TO SUBMIT A FIXTURE OTHER THAN THE BASIS OF DESIGN FIXTURE, INCLUDING ONE OF THE TWO SIMILAR FIXTURES, REQUIREMENTS OF NOTES O. AND P. APPLY. THE ABOVE FIXTURE TYPES ARE LISTED AS THE DESIGN BASIS.

LIGHTING FIXTURES HAVE BEEN SELECTED AND SPECIFIED TO ACHIEVE REQUIRED/DESIRED ILLUMINATION LEVELS AND OTHER CHARACTERISTICS IN THEIR RESPECTIVE AREAS. SPECIFIED FIXTURES HAVE SPECIFIC CHARACTERISTICS WHICH MAY CREATE UNIQUE ILLUMINATION RESULTS ESSENTIAL TO THE PROJECT. LIGHTING FIXTURES PROVIDED SHALL MEET THE ASTHETICS, DETAILS, AND SPECIFICATIONS STATED ABOVE AND IN THE DIVISION 26 SPECIFICATIONS, AND MOUNTING HEIGHTS AND SPACINGS SHOWN ON THE DRAWINGS. ANY DEVIATIONS FROM THE SPECIFIED FIXTURES SHALL DEEM ALL PARTIES IN THE SUPPLY CHAIN AND CONTRACTOR RESPONSIBLE FOR PROVIDING DETAILED COMPARISONS OF THE SPECIFIED FIXTURE AND THE PROPOSED FIXTURE FOR ARCHITECT AND ENGINEER REVIEW IN DETERMINING EQUALITY. PROVIDE COMPLETE POINT BY POINT ILLUMINATION STUDIES FOR ALL SUBSTITUTIONS.

SUBSTITUTIONS MAY BE APPROVED BY THE ARCHITECT AND ENGINEER IF THEY ARE JUDGED TO BE EQUAL TO THE SPECIFIED FIXTURES. "EQUAL" MAY INCLUDE, AT THE SOLE DISCRETION OF THE ARCHITECT AND ENGINEER, LENS MATERIAL AND CHARACTERISTICS, COLORS, REFLECTORS, HOUSING MATERIAL AND CONFIGURATION, FINISHES, PHOTOMETRICS, EFFICIENCY, OPTIONS, FUNCTIONALITY, ETC.

