PROJECT CONTACT LIST

OWNER:

- ORCHARD VIEW SCHOOL
- 35 S SHERIDAN DR
- MUSKEGON, MI
- CONTACT: EARL SCHAUB - PHONE: 231-760-9889

ARCHITECT:

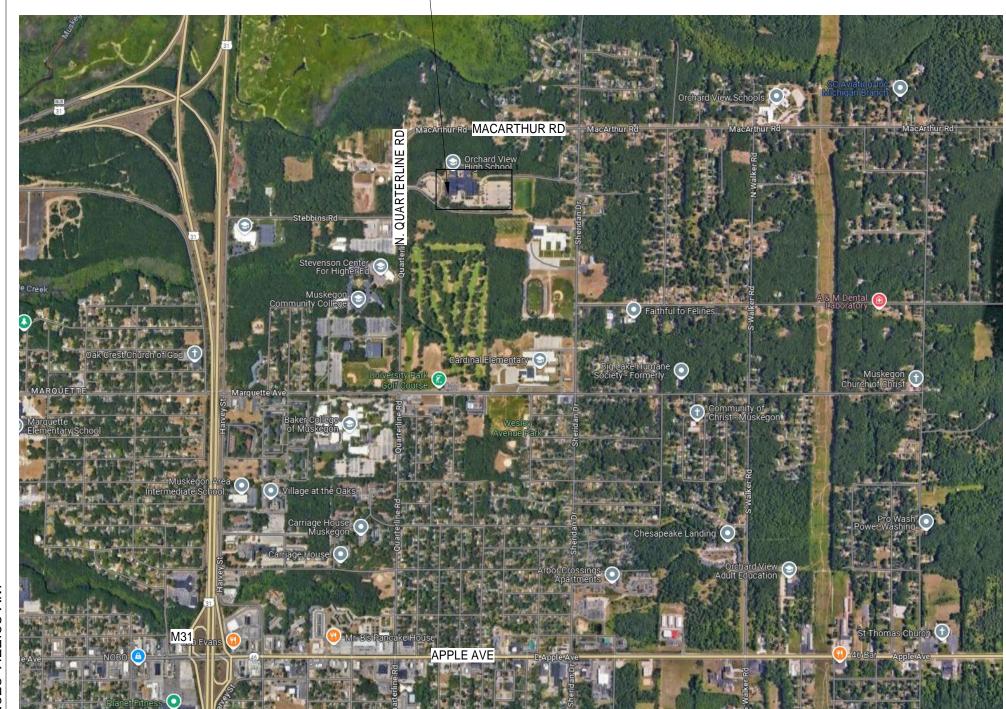
- COLLIERS ENGINEERING & DESIGN
- 560 5TH ST, STE 305
- GRAND RAPIDS, MI - CONTACT: BUDDY HUYLER
- PHONE: 616-848-6969

ELECTRICAL ENGINEER:

- COLLIERS ENGINEERING & DESIGN
- 560 5TH ST, STW 305 GRAND RAPIDS, MI
- CONTACT: ANGELA ROBINSON

PROJECT LOCATION MAP

PROJECT LOCATION



DRAWING INDEX

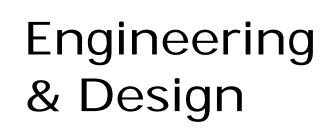
| G000 | COVER SHEET |
|--------|---|
| E001 | LEGEND |
| ED101A | FIRST FLOOR - DEMOLITION LIGHTING - ZONE A |
| ED101B | FIRST FLOOR - DEMOLITION LIGHTING - ZONE B |
| ED101C | FIRST FLOOR - DEMOLITION LIGHTING - ZONE C |
| ED101D | FIRST FLOOR - DEMOLITION LIGHTING - ZONE D |
| ED101E | FIRST FLOOR - DEMOLITION LIGHTING - ZONE E |
| ED102A | SECOND FLOOR - DEMOLITION LIGHTING - ZONE A |
| ED102B | SECOND FLOOR - DEMOLITION LIGHTING - ZONE B |
| ED102C | SECOND FLOOR - DEMOLITION LIGHTING - ZONE C |
| ED102D | SECOND FLOOR - DEMOLITION LIGHTING - ZONE D |
| ED102E | SECOND FLOOR - DEMOLITION LIGHTING - ZONE E |
| ED103E | THIRD FLOOR - DEMOLITION LIGHTING - ZONE E |
| E101A | FIRST FLOOR LIGHTING PLAN - ZONE A |
| E101B | FIRST FLOOR LIGHTING PLAN - ZONE B |
| E101C | FIRST FLOOR LIGHTING PLAN - ZONE C |
| E101D | FIRST FLOOR LIGHTING PLAN - ZONE D |
| E101E | FIRST FLOOR LIGHTING PLAN - ZONE E |
| E102A | SECOND FLOOR LIGHTING PLAN - ZONE A |
| E102B | SECOND FLOOR LIGHTING PLAN - ZONE B |
| E102C | SECOND FLOOR LIGHTING PLAN - ZONE C |
| E102D | SECOND FLOOR LIGHTING PLAN - ZONE D |
| E102E | SECOND FLOOR LIGHTING PLAN - ZONE E |
| E103E | THIRD FLOOR LIGHTING PLAN - ZONE E |
| E701 | DETAILS |
| E702 | DETAILS |
| E703 | DETAILS |
| E704 | DETAILS |
| E705 | DETAILS |
| E706 | DETAILS |
| E707 | DETAILS |
| E708 | DETAILS |
| E709 | DETAILS |
| E710 | DETAILS |
| E711 | DETAILS |
| E712 | DETAILS |
| E713 | DETAILS |

Colliers



ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS 16 N. QUARTERLINE MUSKEGON, MI 49442

DATE DESCRIPTION 01/07/25 BID



ORCHARD VIEW SCHOOLS

01/07/2025



| /IEW TITLES | | DETAIL CALI | LOUT |
|--|---|--|---------------------------------------|
| | | SIM | ETAIL #. |
| (1) SCALE : 1/8" = 1'-0 | | A101 | |
| /IEW TITLE: SCALED | | | |
| | ИЕ | | |
| | | #. | |
| /IEW TITLE: NO SCALE | | | RAWING # Ref 1 |
| VIEW NAM | ME | | |
| /IEW TITLE: TITLE ONLY | | $(\mathbf{x}\mathbf{x}\mathbf{x})$ | NEW COLUMN ID |
| | ЛЕ | [xxx] | EXISTING COLUM |
| SCALE : NTS | | | |
| VIEW TITLE: NOT TO SCALE | | • | HEET AD101A SEE SHEET AD101A |
| SECTION MARK | | SEE S | HEET AD101A SEE SHEET AD101A |
| | | MA | TCHLINE SYMBOLS |
| A101 | #. | PLAN | NORTH ARROW (SHOWN IN KEYPLAN) |
| DRAWING | i #. ∎ | NORTH | · · · · · · · · · · · · · · · · · · · |
| | N.O. = := - | | NORTH ARROW PLAN SIZE |
| VIEWI | ING DIRECTION | | |
| A101 DRAWING | | | REVISION TAG |
| DETAIL SECTION | а . | Ę | CENTERLINE |
| | | | |
| wkg view | | | ELEVATION NOTATION |
| View | | Name | |
| | EVIATION LIST) BER | | K RECTANGLE K ROUND |
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| VORKING SECTION EQUIPMENT IDENT EQUIPMENT ABBR X-X EQUIPMENT NUME SYSTEM NUMBER MOUNTI | EVIATION LIST) BER (IF APPLICABLE) ING HEIGHTS 42" AFF | Elevation BREAK MAR | KS K RECTANGLE K ROUND |
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| VORKING SECTION EQUIPMENT IDENT EQUIPMENT ABBR XX EQUIPMENT NUME SYSTEM NUMBER XX EQUIPMENT NUME SYSTEM NUMBER CLOCK HANGER OUTLETS EXIT LIGHTS - FLOOR PROXIMITY EXIT LIGHTS - FLOOR PROXIMITY EXIT LIGHTS - WALL MOUNTED FIRE ALARM HORN/STROBE FIRE ALARM PULL STATION LIGHT SWITCHES MOTOR STARTERS PANEL BOARDS (LIGHTING AND RECEPTACLE - TYPICAL SAFETY SWITCHES TELEPHONE - DATA OUTLET TELEPHONE - DATA OUTLET TELEPHONE - PAY STATION TELEPHONE - WALL TYPE NOTE: REFER TO ARCHITEC LOCATIONS. ALL DEVICES T RANGE OF 34" TO BOTTOM AFF TO TOP OF DEVICE BAM MOUNTING HEIGHT IS 48" A BACKBOX. CONTRACTOR T WITHIN THE LISTED RANGE | EVIATION LIST) BER (IF APPLICABLE) ING HEIGHTS 42" AFF 42" AFF 42" AFF 42" AFF 8" AFF TO BOTT FROM FRONT E DOOR FRAME ABOVE DOORS 84" AFF 44" AFF 44" AFF 42" AFF 72" AFF MAX TO HANDLE 72" AFF MAX TO BREAKER 18" AFF 148" AFF 18" AFF 148" AFF 148" AFF 148" AFF 148" AFF 148" AFF 148" AFF 150 DE VICE BACI CKBOX. PREFER FF TO TOP OF D O MOUNT AT LO TO OVERCOME | Elevation BREAK MAR -/- BREAI -/- BREAI - | KS K RECTANGLE K ROUND |
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| VORKING SECTION EQUIPMENT IDENT EQUIPMENT ABBR XX EQUIPMENT NUME SYSTEM NUMBER CARD READER CLOCK HANGER OUTLETS EXIT LIGHTS - FLOOR PROXIMITY EXIT LIGHTS - VALL MOUNTED FIRE ALARM HORN/STROBE FIRE ALARM HO | EVIATION LIST) BER (IF APPLICABLE) ING HEIGHTS 42" AFF 42" AFF 42" AFF 42" AFF 8" AFF TO BOTT FROM FRONT E DOOR FRAME ABOVE DOORS 84" AFF 44" AFF 44" AFF 42" AFF 72" AFF MAX TO BREAKER 18" AFF 18" AFF 190 OVERCOME 100 | Elevation BREAK MAR -/- BREAI BREAI BREAI BREAI BREAI BREAI O BREAI O BREAI | KS KRECTANGLE KROUND KPIPE |

| SECTION 1 - GENERAL REQUIREMENTS |
|----------------------------------|
| DESCRIPTION OF WORK |

WORK SHALL INCLUDE BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING: 1. WIRING METHODS. 2. DEVICES.

3. LIGHTING CONTROLS 4. TEMPORARY POWER AND LIGHTING

MATERIALS AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF MBC, NEC, MIOSHA, NFPA, U.L., NEMA, A.D.A., AND RESPECTIVE PUBLICATIONS AND OTHER REQUIREMENTS SPECIFIED BELOW. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER.

<u>CODES AND ORDINANCES</u> COMPLY WITH ALL CODES AND ORDINANCES. BIDDERS SHALL INFORM THEMSELVES OF CODE REQUIREMENTS.

PERMITS, INSPECTION FEES, AND CODES THE CONTRACTOR SHALL OBTAIN AND PAY ALL PERMIT AND INSPECTION FEES. FINAL INSPECTION CERTIFICATES BY THE LOCAL ELECTRICAL INSPECTOR AND FIRE MARSHAL SHALL BE OBTAINED BY THE CONTRACTOR AND TURNED OVER IN DUPLICATE TO THE OWNER.

SUBMISSIONS 1. SUBMIT PRODUCT DATA, SHOP DRAWINGS, WIRING DIAGRAMS, AND DESCRIPTIVE LITERATURE ON ALL MATERIALS AND EQUIPMENT. MAKE SUBMITTALS WITHIN THIRTY (30) DAYS AFTER THE SIGNING OF THE CONTRACT. SHIPMENT SHALL NOT BE RELEASED UNTIL DRAWINGS AND LITERATURE HAVE BEEN FINALLY APPROVED.

| | SYMBOL LIST | BOWER | | | |
|--|---|-----------------------------|---|---------------------|---|
| | LIGHT LINE WEIGHT INDICATES EXISTING ITEMS TO | POWER | MAG. MOTOR STARTER OR CONTACTOR | Q1Q1 | NURSE CALL DOME LIGHT (4 LAMP) |
| | REMAIN OR PROVIDED BY OTHERS. HEAVY LINE WEIGHT INDICATES ITEMS TO BE | | COMB. MOTOR STARTER (NON-FUSED) | | NURSE CALL EMERG. STATION |
| | PROVIDED BY E.C. | | COMB. MOTOR STARTER (FUSED) | + | NURSE CALL CODE BLUE EMERG. STATIO |
| | HEAVY DASHED LINE INDICATES ITEMS TO BE REMOVED OR RELOCATED BY E.C. | ⊕ <mark>H</mark> ζL <u></u> | | + | NURSE CALL DUTY STATION |
| | LIGHT FIXTURE UPPER CASE LETTERS INDICATE FIXTURE TYPE. | | COMBINATION STARTER WITH RESET BUTTON, | + 🍥 + 🏠 | NURSE CALL STAFF STATION NURSE CALL PATIENT PULL STATION |
| 2 LA | REFER TO LUMINAIRE SCHEDULE FOR DETAILS. LOWER CASE LETTERS INDICATE SWITCHING | | HAND OPERATED ACTUATOR, AND INDICATOR LIGHT | + | NURSE CALL SINGLE PATIENT STATION |
| | ARRANGEMENT. NUMBER INDICATES BRANCH CIRCUIT. "EM" OR SHADING INDICATES | Š | | + | NURSE CALL DUAL PATIENT STATION |
| | EMERGENCY LIGHTING. | | FUSE SAFETY DISC. SW. (NON-FUSED) | | NURSE CALL MASTER STATION NURSE CALL EQUIPMENT CABINET |
| 'X1' 'X1' | EXIT SIGN LIGHT - WALL, CEILING OR PENDANT | | 25A | | NURSE CALL ANNUNCIATOR PANEL |
| | MOUNTED. LETTERS INDICATE FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE FOR | | 3P | \$ ^V | |
| | DETAILS. ARROWS INDICATE DIRECTION. SHADING INDICATES NUMBER OF FACES. | | SAFETY DISC. SW. (FUSED) | H T | HUMIDISTAT THERMOSTAT |
| | EXIT SIGN LIGHT WITH EMERGENCY LIGHT HEADS. | | 25A 3P | • | TELEPHONE OUTLET BOX TWO GANG JUNCTION BOX WITH 1 " CONI |
| _ | LETTERS INDICATE FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE FOR DETAILS. SHADING | | VARIABLE FREQUENCY CONTROLLER | | STUBBED TO 6" ABOVE NEAREST ACCESS CEILING, NYLON BUSHING ON CONDUIT E |
| $\overline{\Delta}$ | INDICATES NUMBER OF FACES. DOCK LIGHT | | | | ALL RACEWAYS. ALL CABLING, TERMINAT AND TESTING BY OTHERS. |
| 'T1'⇔ 'T1'⇔ | TRACK AND TRACK LIGHT | | BUS DUCT WITH PLUG UN DISCONNECT (FUSED) | | DATA OUTLET BOX |
| 'TR1' | | | CONDUIT CONCEALED IN WALL OR OVERHEAD. CONDUIT SHOWN WITHOUT SLASH MARKS | | TWO GANG JUNCTION BOX WITH 1 " CONI STUBBED TO 6" ABOVE NEAREST ACCESS |
| | EMERGENCY LIGHT HEADS - SINGLE HEAD AND DOUBLE HEADS | | SHALL CONTAIN 2 #12 & 1#12G CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT | | CEILING, NYLON BUSHING ON CONDUIT E ALL RACEWAYS. ALL CABLING, TERMINAT |
| | EMERGENCY BATTERY LIGHTING UNIT. WIRE | | REQUIRES A DIFFERENT SIZE. CONDUIT SHOWN WITH SLASH MARKS SHALL | v | AND TESTING BY OTHERS. COMBINATION TELE/DATA OUTLET BOX |
| Q | AHEAD OF LOCAL SWITCHING | ¥ | CONDUCTOR PER SLASH MARKS SHALL CONTAIN 1#12 CONDUCTOR PER SLASH MARK IN 3/4" CONDUIT UNLESS THE CONDUCTOR SIZE AND | | TWO GANG JUNCTION BOX WITH 1 " CONI STUBBED TO 6" ABOVE NEAREST ACCESS |
| | LIGHT ON CORD REEL LIGHT SWITCH 20A, 120/277V | | CONDUIT SIZE ARE SHOWN ADJACENT TO THE SLASH MARKS. SLASH MARK INDICATORS ARE: | | CEILING, NYLON BUSHING ON CONDUIT E ALL RACEWAYS. ALL CABLING, TERMINAT |
| S | " " SINGLE POLE "K" KEY OPERATION | | SHORT STRAIGHT=PHASE CONDUCTOR, LONG STRAIGHT=NEUTRAL CONDUCTOR, SHORT BENT | | |
| | "3" 3-WAY OPERATION "L###" LOW VOLTAGE | | ENDED=SWITCH LEGS, LONG STRAIGHT WITH A DOT=GROUND CONDUCTOR. | | TELEVISION OUTLET CEILING OR WALL M MULTIPLE SERVICE FLR OUTLET |
| | "WP" WEATHER PROOF "4" 4-WAY OPERATION | | CONDUIT CONCEALED | | MULTIOUTLET ASSEMBLY |
| | "a" SWITCHING ARRANGEMENT "T" TIMER | | CONDUIT EXPOSED | 9 qqo | CLOCK (WALL MOUNT) |
| щщ | "P" PILOT LIGHT "OS" DUAL TECHNOLOGY WALL SWITCH | —SR— | SURFACE RACEWAY | | UNDERFLOOR RACEWAY SYSTEM CABLE TRAY. "FS" INDICATES FIRE STOP |
| 3 | "D/OS" DUAL TECHNOLOGY WALL SWITCH TYPE OCCUPANCY SENSOR "D/OS" DUAL TECHNOLOGY WALL SWITCH | 0 | CONDUIT TRANSITION UP | FS | LOCATION CONDUIT SLEEVE |
| | TYPE OCCUPANCY SENSOR WITH 0-10V DIMMING | > | CONDUIT TRANSITION DOWN | <u>SITE</u> | |
| | "OS1" DUAL RELAY WALL SWITCH TYPE OCCUPANCY SENSOR | | CONDUIT STUBBED OUT | LA' ■-⊡_2 | POLE WITH STANCHION MOUNTED LIGHT FIXTURE. LETTERS INDICATED FIXTURE T |
| | "OS2" INFRARED WALL SWITCH TYPE OCCUPANCY SENSOR | —нт— | HEAT TRACE WIRING | 2 | LIGHTING FIXTURE SCHEDULE. NUMBER INDICATES BRANCH CIRCUIT. |
| | "D" 0-10V WALL SWITCH DIMMER "VS" WALL SWITCH TYPE VACANCY | | HOMERUN TO PANEL BOARD. LETTERS INDICATE PANEL NAME. ARROWS INDICATE NUMBER OF | 2 | BOLLARD LIGHTING FIXTURE. LETTER IND |
| | SENSOR "D/VS" WALL SWITCH TYPE VACANCY | LPB - 2,4 | CIRCUITS. NUMBERS INDICATE CIRCUIT DESIGNATIONS IN PANEL. | 'Z'- ● - | FIXTURE TYPE ON LIGHTING FIXTURE SCH NUMBER INDICATES BRANCH CIRCUIT. |
| | "D/S" SENSOR WITH 0-10V DIMMING "D/S" WALL POD WITH PRESET SCENES AND | φ | SINGLE RECEPT.120V,20A, NEMA 5-20R UNLESS | 'Z' | EXTERIOR WALL MOUNTED LIGHTING FIX LETTER INDICATES FIXTURE TYPE ON LIG |
| (OS) | 0-10V DIMMING OCCUPANCY SENSOR - CEILING MOUNTED | φ | NOTED OTHERWISE DUPLEX RECEPT.120V,20A, NEMA 5-20R UNLESS | l | FIXTURE SCHEDULE. NUMBER INDICATES CIRCUIT. |
| 9 | "A" - 1000 SQ. FT. COVERAGE "B" - 2000 SQ. FT. COVERAGE | Ϋ́ | NOTED OTHERWISE | | UTILITY SERVICE POLE |
| | "C" - HALLWAY TYPE "W"- WALL MOUNTED | | "WP" - WEATHERPROOF TYPE WITH WEATHER - PROOF WHILE IN USE COVER | ## | "UE" UNDERGROUND ELECTRIC |
| | "HB"- HIGH BAY/HIGH CEILING | | "GFI" - GROUND FAULT INTERRUPTER, 4-6mA TYPE | | "UMVE" UNDERGROUND MEDIUM VOL ELECTRIC |
| VS | VACANCY SENSOR - CEILING MOUNTED "A" - 1000 SQ. FT. COVERAGE | | "AC" - ABOVE COUNTER. 6" ABOVE COUNTER TO BOTTOM OF DEVICE | | "UT" UNDERGROUND TELEPHONE "UCOM" UNDERGROUND COMMUNICA |
| | "B" - 2000 SQ. FT. COVERAGE "W"- WALL MOUNTED | | "UC" - UNDER COUNTER "IC" - IN CABINETRY, RECESSED RECEPTACLE | | "UTV" UNDERGROUND CABLE TELE\ (CATV OR CCTV) |
| | "GTD" - GENERATOR TRANSFER DEVICE "NM" - NETWORK MODULE | | "DF" - MOUNTED WITHIN DRINKING FOUNTAIN CABINETRY. COORDINATE MOUNTING | AE | "UFIBR" UNDERGROUND FIBER OPTIC |
| | "PP" - POWER PACK "PC" - PHOTOCELL FOR LIGHTING CONTROL | | HEIGHT IN FIELD USING APPROVED MANUFACTURER CUT SHEETS | | "AE" AERIAL ELECTRIC LINE "OHT" OVERHEAD TELEPHONE |
| | "RC1" - 1-RELAY ROOM CONTROLLER "RC2" - 2-RELAY ROOM CONTROLLER | | "C" - CEILING MOUNTED "USB" - WITH USB | | "OHE" OVERHEAD ELECTRIC |
| \bigcirc A | LIGHT LEVEL SENSOR - TYPE DENOTED | | "USB-C" - WITH USB TYPE C "TR" - TAMPER RESISTANT | FIRE ALA | RM |
| POWER P | POWER POLE | φ | "CR" - CONTROLLED RECEPTACLE SPLIT DUPLEX RECEPT. | #### | CONTROL UNIT (PANEL) "AMP" AMPLIFIER RACK |
| | LIGHTING ARRESTOR | φ Π | ISOLATED GROUND RECEPT (DUPLEX) | | "FAA" FIRE ALARM ANNUNCIATO "FACP" FIRE ALARM CONTROL PA |
| () () | LIGHTNING PROTECTION AIR TERMINAL | ¶ ¶ | RECEPT ON EMERGENCY CKT (DUPLEX) | | "NAC" NOTIFICATION CIRCUIT PC BOOSTER EXTENDER PAN |
| | LIGHTNING PROTECTION CONDUCTOR SPLICE | ⊕ | QUADRUPLEX RECEPT. 120V,20A, NEMA 5-20R | | |
| ıl⊨−● | GROUND ROD | | UNLESS NOTED OTHERWISE QUADRUPLEX RECEPTACLE ON EMERGENCY | ## | INTERFACE AND SUPERVISORY DEVICES "DH" DOOR HOLDER |
| \oplus | GROUND ROD (PLAN VIEW) | т Ф | CIRCUIT 240 VOLT RECEPT. | | "EOL" END OF LINE "F" MANUAL PULL STATION |
| • | GROUND CONNECTION - EXOTHERMIC WELD | | FLOOR RECEPT. (DUPLEX SHOWN) | | "WF" FLOW DETECTOR "VS" VALVE SUPERFISORY SWITCH |
| ۲ | GROUND TEST WELL | ð | RECEPT ON DROP CORD (DUPLEX SHOWN) | # ## | |
| | GROUND CONNECTION TO STEEL OR STRUCTURE | Ф | | | "AIM" ADDRESSABLE INPUT MODULE "AOM" ADDRESSABLE OUTPUT CONTF "H" HEAT DETECTION TYPE |
| ΦΦ | JUNCTION BOX CEILING/WALL MOUNTED | | RECEPT ON CORD REEL (DUPLEX SHOWN) | | "R/F" = COMBINATION F TEMPERTURE |
| | "FA" - FURNITURE POWER "FD" - FURNITURE DATA | Ŷ | SPECIAL RECEPTACLE. NEMA CONFIGURATION AND | | "F" = FIXED TEMPERT "R" = RATE OF RISE C |
| | "DA" - DOOR ACTUATOR "HD" - HAND DRYER | P | RATING AS INDICATED | | "S" SMOKE DETECTOR/SENSOR "I" = IONIZATION |
| PB | PULL BOX | ●P&S | PIN & SLEEVE CONNECTOR / RECEPTACLE | | "P" = PHOTOELECTRI "BR" = BEAM RECEIVER |
| BGB 🕇 🕇 | BUILDING GROUND BAR | | | | "BT" = BEAM TRANSMI "SS" SMOKE DETECTOR SINGLE STA |
| TGB 🕂 | TELECOM GROUND BAR | $ \Phi$ | CONNECTION TO EQUIPMENT REFER TO EQUIPMENT SCHEDULE FOR DETAILS | $\langle S \rangle$ | SMOKE DETECTOR/SENSOR FOR DUCT |
| PANEL | 7 | ¢ | EQUIPMENT PLUG | O F | BELL TROUBLE |
| 'X' 100A MLO 208/120V 3Ø,4V | PANELBOARD / DISTRIBUTION PANEL / SWITCHBOARD. SURFACE MOUNTED, | ⊬⊨● | MULTIPLE SERVICE OUTLET | | COMBINATION HORN/VISIBLE |
| 200/1201 30,41 | | | MULTIPLE SERVICE FLR OUTLET | ▼ CD | |
| | | Φ | MULTIOUTLET ASSEMBLY | ⊠ c | COMBINATION SPEAKER/VISIBLE "CD" CANDELA RATING/SETTIN "C" = CEILING MOUNT |
| | | | | Fн | HORN ONLY |
| ~~ 52 ~ | MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER | | | S c | SPEAKER ONLY - WALL MOUNT |
| | DRAWOUT CIRCUIT BREAKER | ## | "DI" DOOR INTERLOCK "DO" ELECTRIC DOOR OPERATOR "EH" ELECTRIC HINGE | | "C" CEILING MOUNT REMOTE ALARM INDICATING AND TEST SW |
| —————————————————————————————————————— | DRAWOUT CIRCUIT BREAKER SPACE | | "EH" ELECTRIC HINGE "EL" ELECTRIC LATCH "ES" ELECTRIC STRIKE | | REMOTE INDICATOR |
| ∘ XXA | MOLDED CASE CIRCUIT BREAKER | | "MS" MOTION SENSOR FOR ACCESS CONTROL "PS" POWER SUPPLY FOR ACCESS CONTROL | | CD |
| ₀ ⁾ 3P | | | "RE" REQUEST TO EXIT DEVICE "R" RELAY | | |
| | ENCLOSED CIRCUIT BREAKER | | "S" DOOR STATUS CONTACTS "ML" MEGNETIC LOCK | L → CD | CD - CANDELA RATING / SETTI CD VISIBLE ONLY (STROBE) EMERGEI CEILING |
| T mr? | TRANSFORMER | | "DC" DOOR CONTACTS "CR" CARD READER | | CEILING CD - CANDELA RATING / SETTI |
| \bigcirc | GENERATOR | | "KP" KEYPAD "WAP" WIRELESS ACCESS POINT | | COMBINATION SPEAKER / VISIBLE APPLIAN "C" CEILILNG MOUNT |
| ∕O∕ SF-1 | MOTOR | ССЪ | CCTV CAMERA F=FIXED, P=PAN, T=TILT, Z= ZOOM | | 2 CARBON DIOXIDE DETECTOR |
| s ^M | MANUAL MOTOR STARTER WITH THERMAL | F F S | SPEAKER (WALL OR CEILING MT.) | | CARBON MONOXIDE DETECTOR |
| 5 | OVERLOAD | | · · · · · · · · · · · · · · · · · · · | | |
| | | | | | |

AS-BUILTS – OPERATION & MAINTENANCE MANUALS PROVIDE FOR EACH SYSTEM AND EQUIPMENT AS SPECIFIED FOR USE BY OPERATION AND MAINTENANCE PERSONNEL. THE OPERATING INSTRUCTIONS SHALL INCLUDE: WIRING DIAGRAMS, CONTROL DIAGRAMS, AND CONTROL

SEQUENCE FOR EACH SYSTEM AND ITEM OF EQUIPMENT. • START-UP, PROPER ADJUSTMENT, OPERATING, LUBRICATION, AND SHUTDOWN PROCEDURES. SAFETY PRECAUTIONS

 THE PROCEDURE IN THE EVENT OF EQUIPMENT FAILURE OTHER ITEMS OF INSTRUCTION AS RECOMMENDED BY THE MANUFACTURER OF EACH SYSTEM OR ITEM OF EQUIPMENT.

IDENTIFICATION OF SYSTEMS OPERATING INSTRUCTIONS: PRINT OR ENGRAVE INSTRUCTIONS AND FRAME UNDER GLASS OR APPROVED LAMINATED PLASTIC, POST INSTRUCTIONS IN VIEW OF EQUIPMENT. PROVIDE WEATHER RESISTANT MATERIALS FOR EXTERIOR APPLICATIONS.

1. EQUIPMENT: PROVIDE NAMEPLATE FOR ALL EQUIPMENT IT SHALL BE A SELF-ADHESIVE, ENGRAVED, LAMINATED ACRYLIC OR MELAMINE LABEL. PROVIDE ADHESIVE BACK, WITH WHITE LETTERS ON A DARK GRAY BACKGROUND. MINIMUM LETTER HEIGHT SHALL BE 3/8-INCH.S.

WARNING SIGNS: PROVIDE A SELF-ADHESIVE WARNING LABEL THAT IS FACTORY PRINTED, MULTI-COLOR, PRESSURE SENSITIVE, ADHESIVE LABEL. COMPLY WITH N.E.C. 70 AND 29 CFR 1910.145. LABELS FOR MULTIPLE POWER SOURCES SHALL READ: "DANGER – ELECTRICAL SHOCK HAZARD – EQUIPMENT HAS MULTIPLE POWER SOURCES". LABELS FOR ALL OTHER EQUIPMENT REQUIRING WORKSPACE CLEARANCES SHALL READ: "WARNING – OSHA REGULATION – AREA IN FRONT OF ELECTRICAL EQUIPMENT MUST BE KEPT CLEAR FOR 36-INCHES".

NURSE CALL CODE BLUE EMERG. STATION

TWO GANG JUNCTION BOX WITH 1 " CONDUIT

STUBBED TO 6" ABOVE NEAREST ACCESSIBLE

ALL RACEWAYS. ALL CABLING, TERMINATIONS

TWO GANG JUNCTION BOX WITH 1 " CONDUIT

STUBBED TO 6" ABOVE NEAREST ACCESSIBLE

ALL RACEWAYS. ALL CABLING, TERMINATIONS

TWO GANG JUNCTION BOX WITH 1 " CONDUIT

STUBBED TO 6" ABOVE NEAREST ACCESSIBLE

CEILING, NYLON BUSHING ON CONDUIT END, AND

ALL RACEWAYS. ALL CABLING, TERMINATIONS

TV IV TELEVISION OUTLET CEILING OR WALL MOUNT

"FACP" FIRE ALARM CONTROL PANEL

"SS" SMOKE DETECTOR SINGLE STATION

"CD" CANDELA RATING/SETTING

VISIBLE ONLY (STROBE) WALL / CEILING

CD - CANDELA RATING / SETTING

CD - CANDELA RATING / SETTING

COMBINATION SPEAKER / VISIBLE APPLIANCE

VISIBLE ONLY (STROBE) EMERGENCY WALL

"BT" = BEAM TRANSMITTER

RTS REMOTE ALARM INDICATING AND TEST SWITCH

"AOM" ADDRESSABLE OUTPUT CONTROL MODULE

"F" = FIXED TEMPERTURE

"R" = RATE OF RISE ONLY

"R/F" = COMBINATION RISE/FIXED

"NAC" NOTIFICATION CIRCUIT POWER

FIRE ALARM ANNUNCIATOR

BOOSTER EXTENDER PANEL

FIXTURE. LETTERS INDICATED FIXTURE TYPE ON

BOLLARD LIGHTING FIXTURE. LETTER INDICATE FIXTURE TYPE ON LIGHTING FIXTURE SCHEDULE.

EXTERIOR WALL MOUNTED LIGHTING FIXTURE.

LETTER INDICATES FIXTURE TYPE ON LIGHTING

FIXTURE SCHEDULE. NUMBER INDICATES BRANCH

UNDERGROUND MEDIUM VOLTAGE

UNDERGROUND COMMUNICATIONS

UNDERGROUND CABLE TELEVISION

CEILING, NYLON BUSHING ON CONDUIT END, AND

CEILING, NYLON BUSHING ON CONDUIT END, AND

CONTRACTOR SHALL PROVIDE IDENTIFICATION ON ALL DEVICES. PROVIDE WHITE LABEL WITH BLACK LETTERING AND LOCATE ON DEVICE UNDER PLATE. CONTRACTOR SHALL IDENTIFY DEVICE WITH PANEL AND CIRCUIT NUMBER FEEDING DEVICE.

<u>GUARANTEE</u> PROVIDE GUARANTEE FOR ALL LABOR AND MATERIALS FOR ONE (1) YEAR AFTER OWNER'S WRITTEN ACCEPTANCE OF THE PROJECT.

LAYOUT OF THE WORK EXAMINE THE SITE AND ALL THE DRAWINGS BEFORE PROCEEDING WITH THE LAYOUT AND INSTALLATION OF THIS WORK. LOCATE ESSENTIALLY AS SHOWN ON THE DRAWINGS. BUT IN EXACT LAYOUT DETERMINED ON THE JOB, TO SUIT ACTUAL CONDITIONS. CONFER AND COOPERATE WITH OTHER TRADES ON THE JOB SO ALL PARTS WILL BE INSTALLED IN PROPER RELATIONSHIP. PRECISE LOCATION OF PARTS TO COORDINATE

DEMOLITION

CONTRACTOR.

WIRE AND CABLE

BRANCH CIRCUIT NUMBER.

WITH OTHER WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

| <u>GE</u> | NERAL NO | DTES: | ABBREVIA | TIONS |
|-----------|-----------------|---|----------------|---|
| 1. | | CIRCUIT BREAKER SIZE FOR CONDUITS SHOWN ON | CND | CONDUIT |
| | | 20A, 1 POLE FOR 120VAC UNLESS OTHERWISE HOWN ON PLANS | COMB CONN | COMBINATION CONNECTION |
| 2. | | BRANCH CIRCUIT WIRING SHALL BE #12 AWG. | CONST CONT | CONSTRUCTION CONTINUOUS |
| | CONDUIT | CONDUCTORS PER NEC FOR VOLTAGE DROP AND FILL. | CONV | CONVECTOR |
| 3. | PROVIDE | GROUNDING PER NEC (ARTICLE 250). | CP CT | CIRCULATION PUMP CURRENT TRANSFOR |
| 4. | | A SEPARATE NEUTRAL CONDUCTOR FROM DARD FOR EACH BRANCH CIRCUIT. | CU D | COPPER |
| 5 | | CTOR SHALL COORDINATE WORK WITH ASSOCIATED | DC DCP | DIRECT CURRENT DOMESTIC WATER C |
| J. | TRADES. | STOR SHALL COORDINATE WORK WITH ASSOCIATED | DDCP | DIRECT DIGITAL CON |
| 6. | | CTOR SHALL SEAL WITH AN APPROVED METHOD ALL CAL PENETRATIONS THRU FIRE FLOOR/PROOF/RATED | DE DEPT | DUAL ELEMENT DEPARTMENT |
| | | LOORS, CEILINGS OR OTHER AREAS. | DIA, Ø DISC | DIAMETER DISCONNECT |
| 7. | | CTOR SHALL PROVIDE FUSES SIZED PER CTURERS RECOMMENDATIONS FOR ALL EQUIPMENT | DIST DN | DISTRIBUTION DOWN |
| | INSTALLE | D WITH FUSED STARTERS OR DISCONNECTS. | DP | DOUBLE POLE |
| 8. | | RIOR PVC CONDUIT SHALL TRANSITION TO RGS WITHIN 18" OF FOUNDATION WALL PRIOR TO | DPR DS | DAMPER SAFETY DISCONNEC |
| | | THRU THAT WALL. | DT DWG, | DOUBLE THROW DRAWING, DRAWING |
| 9. | ASSOCIA | CTOR SHALL PROVIDE RACEWAY, WIRE, CABLE AND TED FITTINGS ALONG WITH COMPLETE | DWGS E | |
| | DEVICES | TIONS REQUIRED FOR BRANCH CIRCUITS FROM TO FINAL OVERCURRENT DEVICE AND LOCAL | EC EGC | ELECTRICAL CONTRA |
| | | L DEVICE(S) PER PROJECT SPECIFICATIONS. | ELEC | ELECTRIC, ELECTRIC |
| 10. | | XACT LOCATION OF ELECTRICAL CONNECTION N THE FIELD. | ELEV EMER | ELEVATOR EMERGENCY |
| 11. | | SHALL BE CONCEALED WITHIN WALLS AND CEILINGS | EMS EMT | ENERGY MANAGEME |
| | EXPOSED | POSSIBLE. SOME CONDUIT SYSTEMS SHALL BE DOUE TO THE CONSTRUCTION OF THE BUILDING. CTOR SHALL STRIVE TO CONSOLIDATE CONDUITS | EPO | EMERGENCY POWER |
| | AND ARR | ANGE IN A GEOMETRICALLY ALIGNED FASHION TO OW IMPACT ON THE AESTHETICS OF THE SPACE. | EQUIP ES | EQUIPMENT END SWITCH |
| | CONDUIT | SHALL BE ROUTED FROM THE CORRIDOR DIRECTLY CH ROOM, NOT ROUTED FROM ROOM TO ROOM. | EUH EWC | ELECTRIC UNIT HEAT |
| | CONTRAC | CTOR SHALL PROVIDE AND NOTIFY CONSULTANT IEW OF THE INSTALLED CONDUIT LAYOUT EARLY IN | EWH EXH | ELECTRIC WATER HE EXHAUST |
| | THE PRO | JECT. CONDUIT INSTALLATION SHALL CONTINUE DNSULTANT APPROVAL AND IS SUBJECT TO | EXH-1 | EXHAUST AIR - TYPE |
| | MODIFIC | ATIONS AS THE CONSULTANT SEES FIT. EXPOSED S SHALL BE PAINTED TO MATCH SURROUNDING | EXH-2 EXP | EXHAUST AIR - TYPE EXPANSION PROOF |
| | CONDITIO | DNS. REFER TO CONSTRUCTION COORDINATION MENTS IN THE PROJECT SPECIFICATIONS. | F F | FUSED |
| 12. | | LIGHTING CONTROLS INCLUDING DEVICE ITSELF, | FA | FIRE ALARM |
| | CONDUIT | , CONDUCTORS, 0-10V WIRING, POWER PACKS, ACKS, CONNECTORS, AND OTHER ACCESSORIES FOR | FACP FBO | FIRE ALARM CONTRO |
| | | ETE AND OPERATIONAL SYSTEM. | FCU FLOUR | FAN COIL UNIT FLUORESCENT |
| 13. | | REPENCIES SHALL BE BROUGHT TO THE ATTENTION | FLR FVNR | FLOOR FULL VOLTAGE NON- |
| | | | G | |
| | | | GA GAL | GAUGE GALLON |
| | | | GALV GC | GALVANIZED GENERAL CONTRAC |
| | | | GEN | GENERATOR GROUND FAULT PRC |
| | | | GFI GND | GROUND |
| | | | GRS GWB | GALVANIZED RIGID S GYPSUM BOARD |
| | | | H HID | HIGH INTENSITY DIS |
| | | | HOA | HANDS-OFF-AUTOMA |
| | | | HORIZ HP | HORIZONTAL HORSEPOWER |
| | BREVIA | | HPF HT | HIGH POWER FACTO HEIGHT |
| LDL & | | AND | HTG | HEATING |
| • | E), EXST ER) | EXISTING TO REMAIN EXISTING TO BE RELOCATED | HTR HV | HEATER HIGH VOLTAGE |
| (N | ۷) | NEW WORK | HVAC HWP | HEATING VENTILATION HYDRONIC WATER P |
| | R) RE) | REMOVE RELOCATED EXISTING | HZ | HERTZ |
| @ 1 | | AT 1 POLE (2P, 3P, 4P ETC.) | IC | INTERRUPTER CAPA |
| ' | | FEET INCHES | IG IMC | ISOLATED GROUND |
| # | | NUMBER, POUNDS | INC IR | INCANDESCENT INFRARED |
| Ø Ø | i, DIA | PHASE DIAMETER | J | |
| Υ Δ | | WYE DELTA | J-BOX, JB K | JUNCTION BOX |
| А | | | k kcmil | KIPS THOUSAND CIRCULA |
| А | , AMP FG | AMPERE ABOVE FINISHED GRADE | K-FT KK | KIP-FOOT KIRK KEY INTERLOCI |
| | FI FR | ARC FAULT CIRCUIT BREAKER ARC FLASH REDUCTION CIRCUIT BREAKER | kV | KILOVOLT |
| | HJ HU | AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT | KVA KVAR | KILOVOLT-AMPERE KILOVOLT-AMPERE F |
| А | LUM | ALUMINUM | KW KWH | KILOWATT KILOWATT HOUR |
| | LT FF | ALTERNATE ABOVE FINISHED FLOOR | L | |
| | MPL NNUN | AMPLIFIER ANNUNCIATOR | LA LF | LIGHTING ARRESTOF |
| А | PPROX | APPROXIMATE, APPROXIMATELY | LOC LT | LOCATION LIGHT |
| | RCH T | ARCHITECT, ARCHITECTURAL AMP TRIP RATING | LTG | LIGHTING |
| | TS TTN | AUTOMATIC TRANSFER SWITCH ATTENTION | LTNG LV | LIGHTNING LOW VOLTAGE |
| | UTO UX | AUTOMATIC AUXILIARY | M M/C | MOMENTARY CONTA |
| A | V | AUDIO VISUAL | mA MAG.S | MILLIAMPERE MAGNETIC STARTER |
| A B | WG | AMERICAN WIRE GAUGE | MAX | MAXIMUM |
| | /, BO AS | BOTTOM OF BUILDING AUTOMATION SYSTEM | MC MCB | MECHANICAL CONTR MAIN CIRCUIT BREAK |
| В | ATT | BATTERY | MCC MDP | MOTOR CONTROL CE MAIN DISTRIBUTION |
| В | D KR | BOARD BREAKER | MECH | MECHANICAL |
| | MS OC | BUILDING MANAGEMENT SYSTEM BOTTOM OF CONCRETE | MEZZ MFR | MEZZANINE MANUFACTURER |
| С | | | MFS MH | MAIN FUSED DISCON MANHOLE |
| С | AB ATV | CABINET CABLE TELEVISION | MIC | MICROPHONE |
| | B CTV | CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION | MISC | MISCELLANEOUS |
| | K | BREAKER WITH CONTACT KIT FOR GROUND FAULT ALARM ONLY INDICATION | MLO MOA | MAIN LUG ONLY MULTIOUTLET ASSEN |
| | KT | CIRCUIT | MT MTC | MOUNT EMPTY CONDUIT |
| С | | CENTERLINE CURRENT LIMITING | MTR | MOTOR, MOTORIZED |
| | LG MPR | CEILING COMPRESSOR | MTS MV | MANUAL TRANSFER MEDIUM VOLTAGE |
| | | | | |

CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND MATERIAL AS INDICATED ON THE DEMOLITION PLAN. ALL REMOVED AND UNUSED LIGHTS AND EQUIPMENT SHALL BE TURNED OVER TO THE OWNER; ALL OTHER ITEMS SHALL BE REMOVED FROM THE SITE. EXISTING CONDUIT HOMERUNS MAY BE REUSED WHENEVER POSSIBLE. CONTRACTOR SHALL PATCH EXISTING WALL AND CEILING OPENINGS IN FINISHED AREAS UPON REMOVAL OF ELECTRICAL EQUIPMENT. CONTRACTOR SHALL ALSO PROTECT ALL EXISTING ELECTRICAL EQUIPMENT TO REMAIN DURING CONSTRUCTION PERIOD.

CUTTING AND PATCHING ALL NECESSARY CUTTING OF THE BUILDING CONSTRUCTION FOR THE NEW INSTALLATION OF THE WORK SHALL BE FURNISHED BY THE CONTRACTOR. NO STRUCTURAL MEMBERS OF THE BUILDING SHALL BE CUT WITHOUT PRIOR APPROVAL OF THE ARCHITECT. ALL NECESSARY PATCHING OF THESE SURFACES TO BE FURNISHED BY THIS

ALL WIRING SHALL STRANDED COPPER AND INSTALLED IN CONDUIT, TUBING, OR SURFACE METALLIC RACEWAY, CONDUCTORS SHALL BE CONTINUOUS BETWEEN OUTLETS OF JUNCTION BOXES WITH SPLICES MADE ONLY WITHIN SUCH BOXES. SOLDERLESS PRESSURE-TYPE CONNECTORS PROPERLY INSULATED SHALL BE USED FOR ALL JOINTS. NO WIRE SMALLER THAN #12 MAY BE USED UNLESS SPECIFICALLY SPECIFIED UNDER DESCRIPTIONS OF SPECIAL SYSTEMS. ALL INDIVIDUAL BRANCH CIRCUITS AND SINGLE POLE BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. EACH NEUTRAL SHALL BE IDENTIFIED AT ALL JUNCTION BOXES AND TERMINALS SAME AS ITS CORRESPONDING

TION ΓΙΟΝ JCTION OUS TION PUMP OR CONTROL PANEL TRANSFORMER JRRENT WATER CIRCULATING PUMP IGITAL CONTROL PANEL MENT FNT -ст TION POLE DISCONNECT SWITCH HROW DRAWINGS CAL CONTRACTOR NT GROUND CONDUCTOR , ELECTRICAL ANAGEMENT SYSTEM CAL METALLIC TUBING NCY POWER OFF CUNIT HEATER WATER COOLER WATER HEATER AIR - TYPE 1 AIR - TYPE 2 N PROOF RM CONTROL PANEL ED BY OTHERS UNIT CENT TAGE NON-REVERSING ED CONTRACTOR FAULT PROTECTOR ED RIGID STEEL (CONDUIT) BOARD NSITY DISCHARGE FF-AUTOMATIC SWITCH **AL** OWER VER FACTOR TAGE VENTILATION AND AIR CONDITIONING WATER PUMP TER CAPACITY GROUND DIATE METAL CONDUIT SCENT **BOX** D CIRCULAR MILLS (MCM) INTERLOCK -AMPERE -AMPERE REACTIVE HOUR ARRESTOR FT TAGE RY CONTACT FRE STARTER CAL CONTRACTOR UIT BREAKER ONTROL CENTER **RIBUTION PANEL** TURER ED DISCONNECT SWITCH ONE ANEOUS ONLY LET ASSEMBLY NDUIT MOTORIZED TRANSFER SWITCH

NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NON-FUSED NON-FUSED SAFETY DISCONNECT SWITCH NOT IN CONTRACT NIGHT LIGHT - WIRE AHEAD OF SWITCH/CONTROL NORMALLY OPEN NUMBER NORMAL POWER FACTOR NATIONALLY RECOGNIZED TESTING LABORATORY NOT TO SCALE NORMAL WEIGHT ON CENTER OVERCURRENT PROTECTION DEVICE OVERHEAD OVERLOADS POLE PUBLIC ADDRESS PULL BOX OR PUSH BUTTON PLUMBING CONTRACTOR PHOTO ELECTRIC CELL PEDESTAL POWER FACTOR PHASE POST INDICATING VALVE PLATE PANEL PROJECTION POWER ROOF VENTILATOR POTENTIAL TRANSFORMER POLYVINYL CHLORIDE POWER QUANTITY REMOTE CONTROL RECPT RECEPTACLE REQD REQUIRED ROOM ROOT MEAN SQUARE RIGID STEEL CONDUI ROOF TOP UNIT REQMTS REQUIREMENTS STOP/START PUSHBUTTONS SCHED SCHEDULE SECONDARY SF, SQFT SQUARE FEET SUB FEED BREAKER KIT SHEET SIMILAR SURGE PROTECTION DEVICE SPECIFICATION SPEAKER SAFETY SWITCH SINGLE THROW STAINLESS STEEL STATION STANDARD STRUCT STRUCTURAL, STRUCTURE SWITCH SWITCHBOARD SWBD SWGR SWITCHGEAR SYMMETRICAL SYSTEM SELECTOR SWITCH SHORT SLOTTED SPACES SPCS TELEPHONE TEL/DATA TELEPHONE/DATA TERM TERMINAL TWIST LOCK TIME SWITCH THERMOSTAT T-STAT TELEPHONE TERMINAL BOARD TELEVISION TELEVISION TERMINAL CABINET TYPICAL TELEPHONE TERMINAL CABINET UNDER COUNTER UNDERGROUND UNDERGROUND ELECTRICAL UNDERGROUND TELEPHONE UNIT HEATER UNLESS NOTED OTHERWISE UTILITY UNIT VENTILATOR OR ULTRAVIOLET VOLT VOLT-AMPERES VIDEO DISPLAY TERMINAL VARIABLE FREQUENCY CONTROLLER VERIFY IN FIELD VOLTMETER VOLUME VERTICAL WATT WITH WITHOUT WATTS PER SQUARE FOOT WIRE GUARD WATER HEATER WEATHERPROOF TRANSFORMER TRANSFER

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ALL CONDUIT SHALL BE 3/4-INCH MINIMUM UNLESS NOTED OTHERWISE. WIRING METHODS: INTERIOR EXPOSED/CONCEALED UNDER 2-INCHES: EMT. ALL CONDUIT AND WIRE IN FINISHED AREAS SHALL BE CONCEALED IN THE CONSTRUCTION WHERE PRACTICABLE. ALL RACEWAYS SHALL BE ROUTED WITHIN STRUCTURAL STEEL AND FURRED SPACES UTILIZING FACTORY MADE ELBOWS AS GOOD PRACTICE AND WORKMANSHIP ALLOWS. INSTALL SLEEVES THROUGH STRUCTURAL CONCRETE OR WHERE PENETRATING STRUCTURAL FLOOR DECKS. KEEP RACEWAYS AT LEAST 6-INCHES FROM PARALLEL RUNS OF FLUES, STEAM AND HOT WATER PIPING. INSTALL HORIZONTAL CONDUIT RUNS ABOVE WATER AND STEAM PIPING. INSTALL RACEWAYS LEVEL AND SQUARE AND AT PROPER ELEVATIONS. PROTECT STUB UPS FROM DAMAGE WHERE CONDUITS RISE THROUGH FLOOR SLABS AND ARRANGE SO CURVED PORTION OF BENDS ARE NOT VISIBLE ABOVE THE FINISHED SLAB.

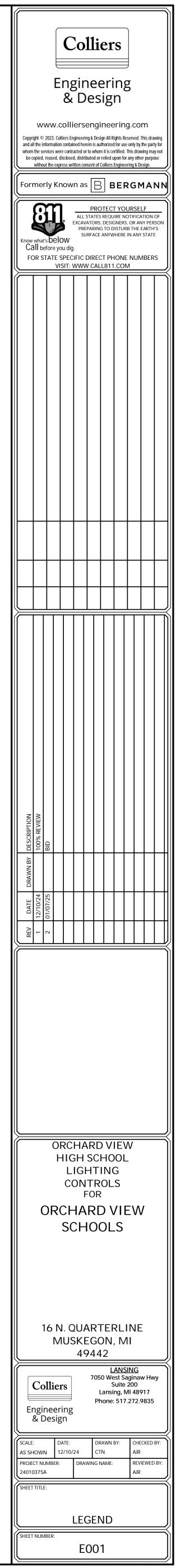
CONTRACTOR SHALL PROVIDE AND INSTALL ALL PLENUM RATED UTP CABLING, OUTLETS/CONNECTORS AND IDENTIFICATION AS REQUIRED. ELECTRICAL CONTRACTOR SHALL PROVIDE 4-INCH SQUARE BOXES WITH 1-INCH CONDUIT STUBBED TO ABOVE ACCESSIBLE CEILING WITH PULL STRING. UTP CABLE AND OUTLETS/CONNECTORS SHALL BE CATEGORY 6. CABLE AND DEVICES SHALL BE MANUFACTURED BY ADC, BELDEN, HUBBELL, LEVITON, PANDUIT, SIEMON, COMMSCOPE, OR SUPERIOR ESSEX. INSTALL CABLE IN PATHWAYS, CABLE TRAY OR J-HOOK, ABOVE CEILING. COMPLY WITH TIA/EIA-568-B-1 AND TIA/EIA-568-B-2. ALL CONDUCTORS SHALL BE TERMINATED AT BOTH THE OUTLETS AND AT THE PATCH PANELS. NO SPLICING IS ALLOWED. BOTH ENDS OF CABLE SHALL BE IDENTIFIED. PROVIDE THE FOLLOWING TESTS: WIRE MAP, LENGTH (PHYSICAL VS. ELECTRICAL, LENGTH REQUIREMENTS), INSERTION LOSS, NEAR-END CROSSTALK (NEXT) LOSS, POWER SUM NEAR-END CROSSTALK (PSNEXT) LOSS, EQUAL-LEVEL FAR-END CROSSTALK (ELFEXT), POWER SUM EQUAL-LEVEL FAR-END CROSSTALK (PSELFEXR), RETURN LOSS, PROPAGATION DELAY, AND DELAY SKEW. PROVIDE AS-BUILT DRAWINGS.

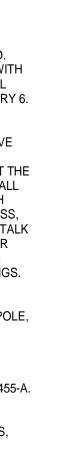
COMMUNICATIONS HORIZONTAL CABLING

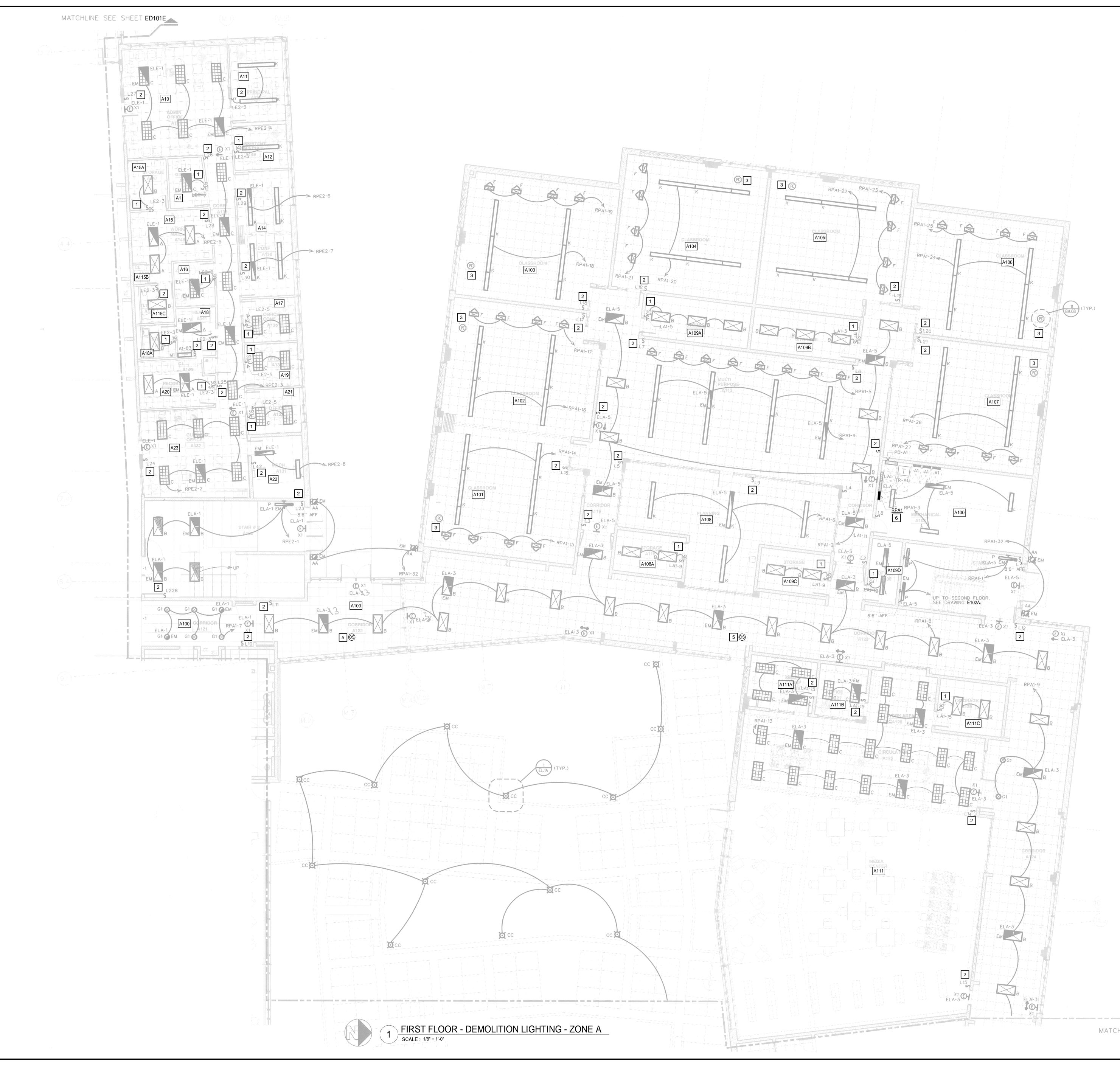
WALL SWITCHES SWITCHES SHALL BE SPECIFICATION GRADE TOGGLE TYPE, SINGLE-POLE, THREE-WAY TWO POSITION DEVICES RATED AT 20A. WALL PLATES ALL DEVICE PLATES SHALL BE NON-CONDUCTIVE, THERMOPLASTIC,

COLOR TO MATCH DEVICES, AND MEET FEDERAL SPECIFICATION WP455-A. SUPPORTS AND HANGERS PROVIDE AND INSTALL NECESSARY STEEL BRACKETS, RODS, CLAMPS,

ETC., FOR SUPPORT OF ALL WORK UNDER THIS CONTRACT.



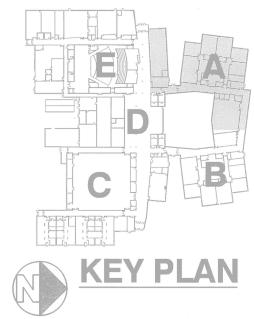




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- C. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING LIGHT SWITCHES, OCCUPANCY SENSORS, PHOTOCELLS AND WIRING AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK.
- D. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES EXISTING TO REMAIN.
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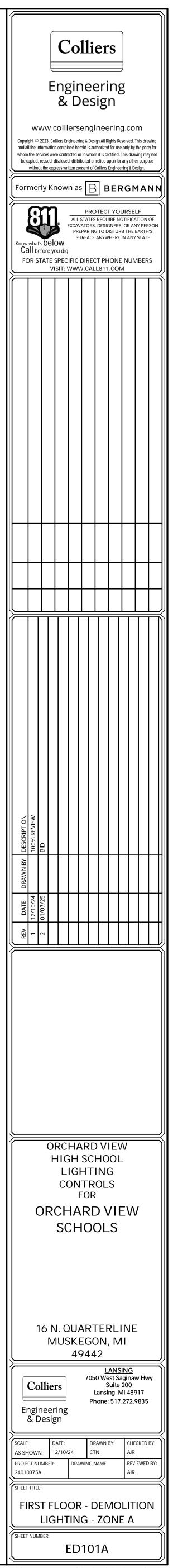
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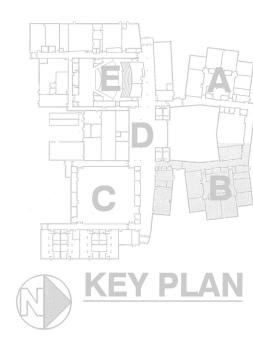




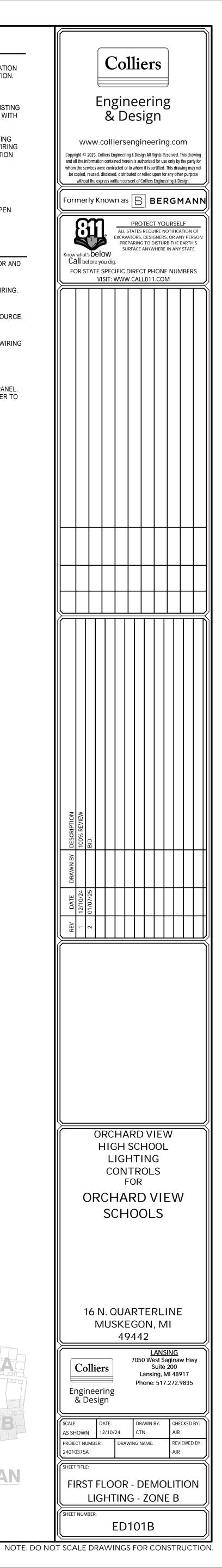
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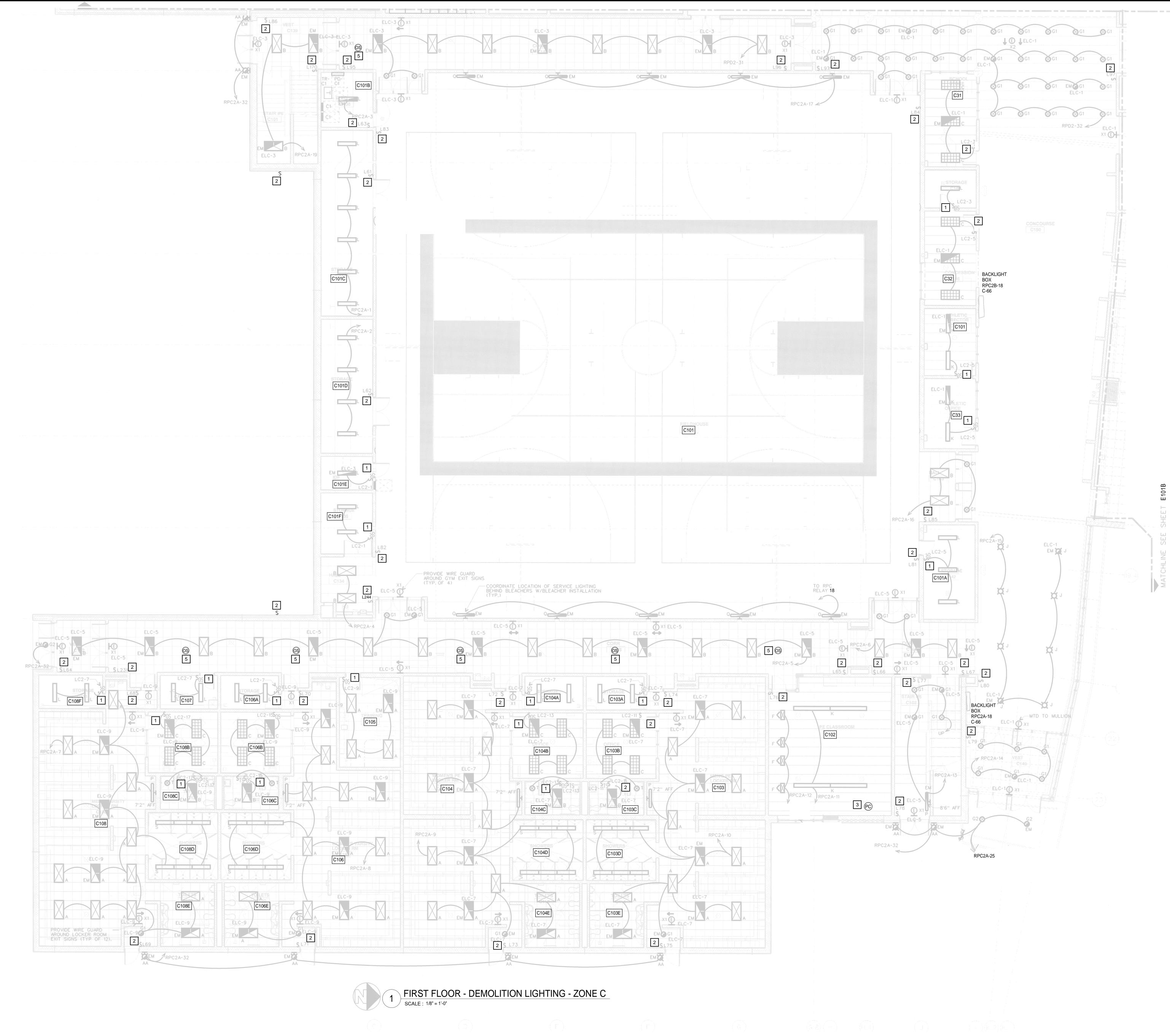
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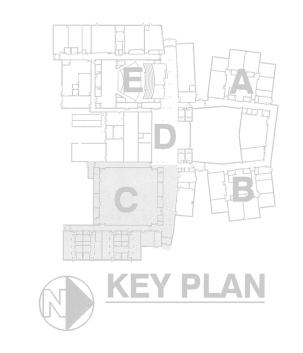
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GENERAL NOTES:

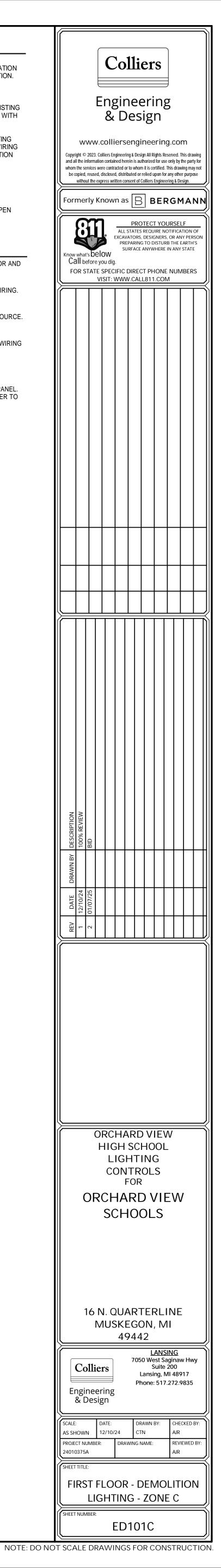
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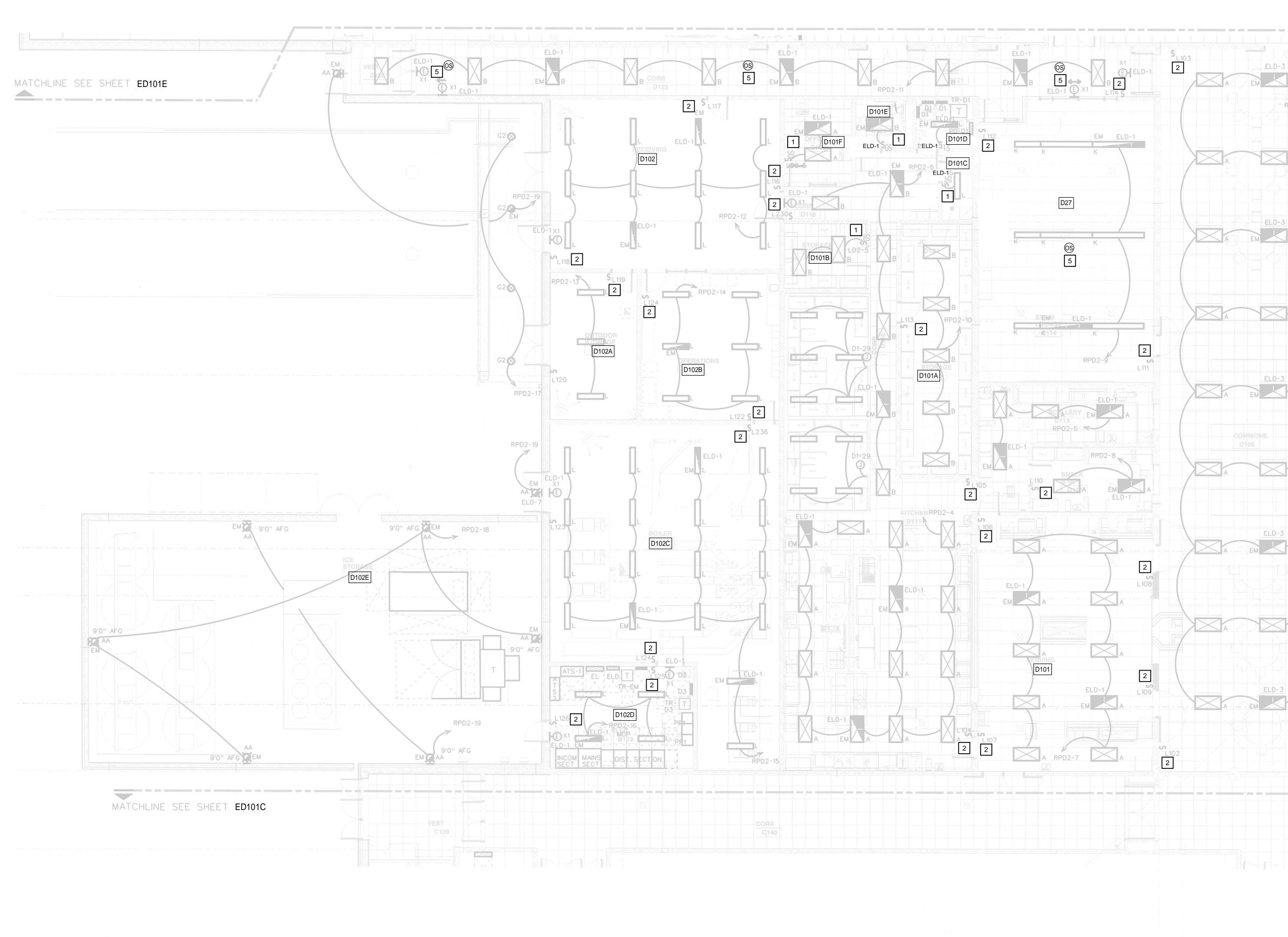
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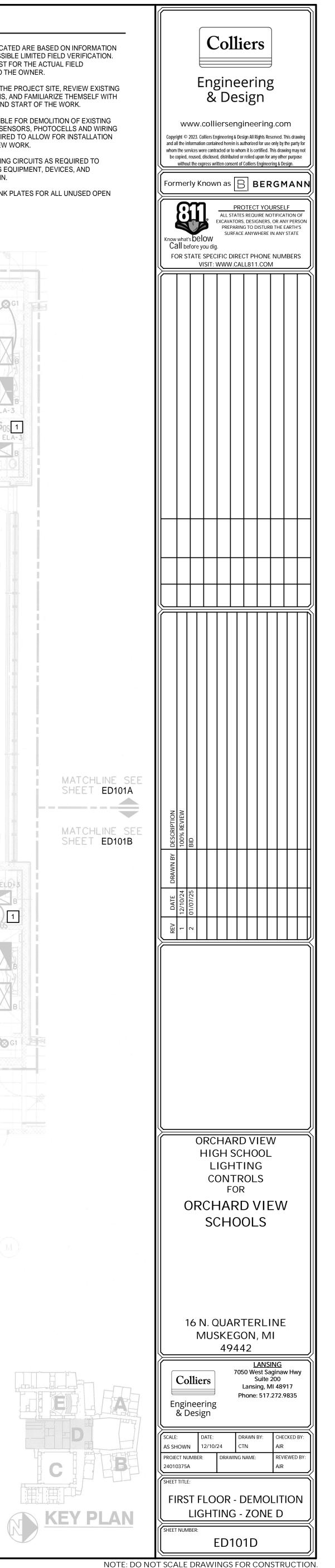
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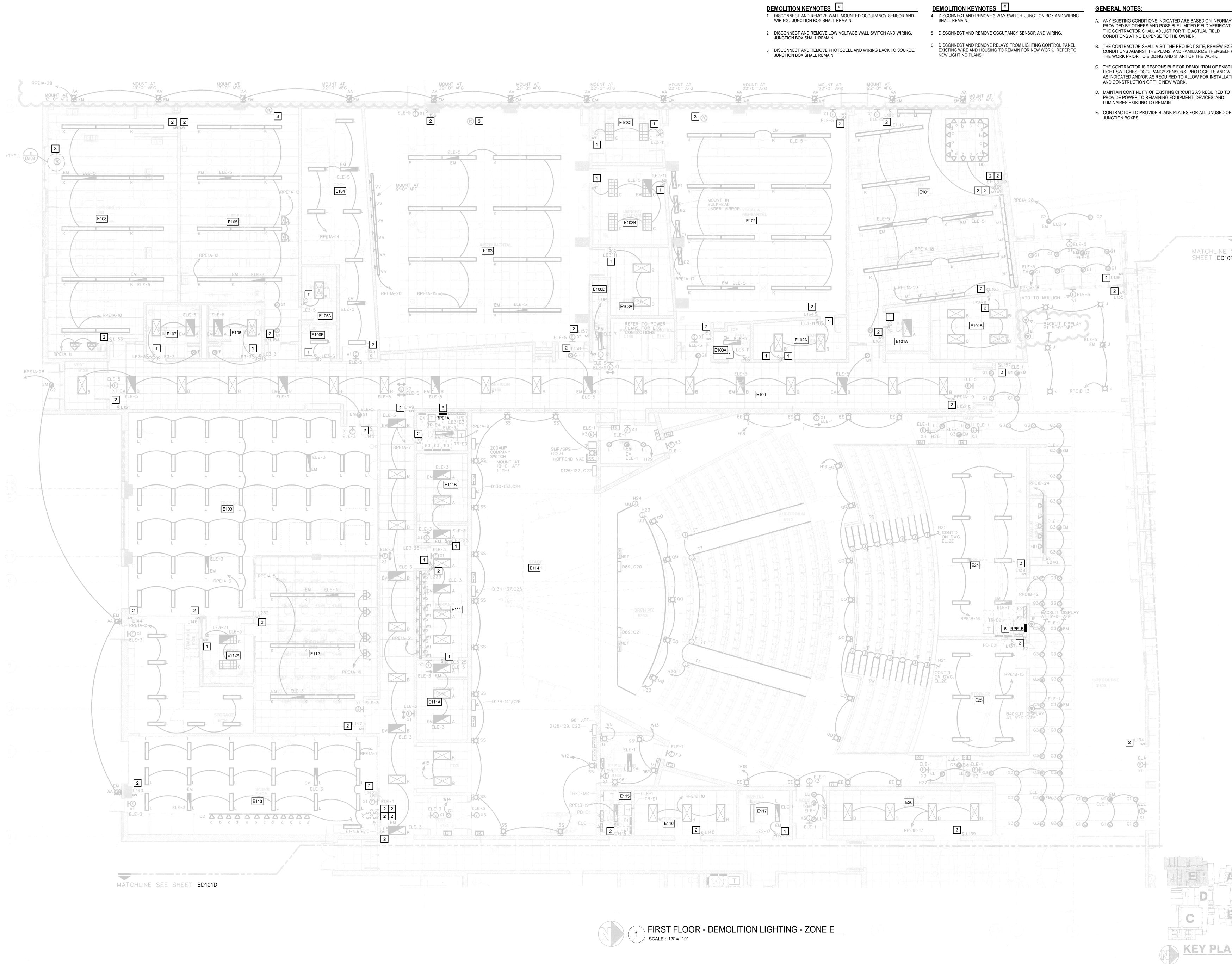
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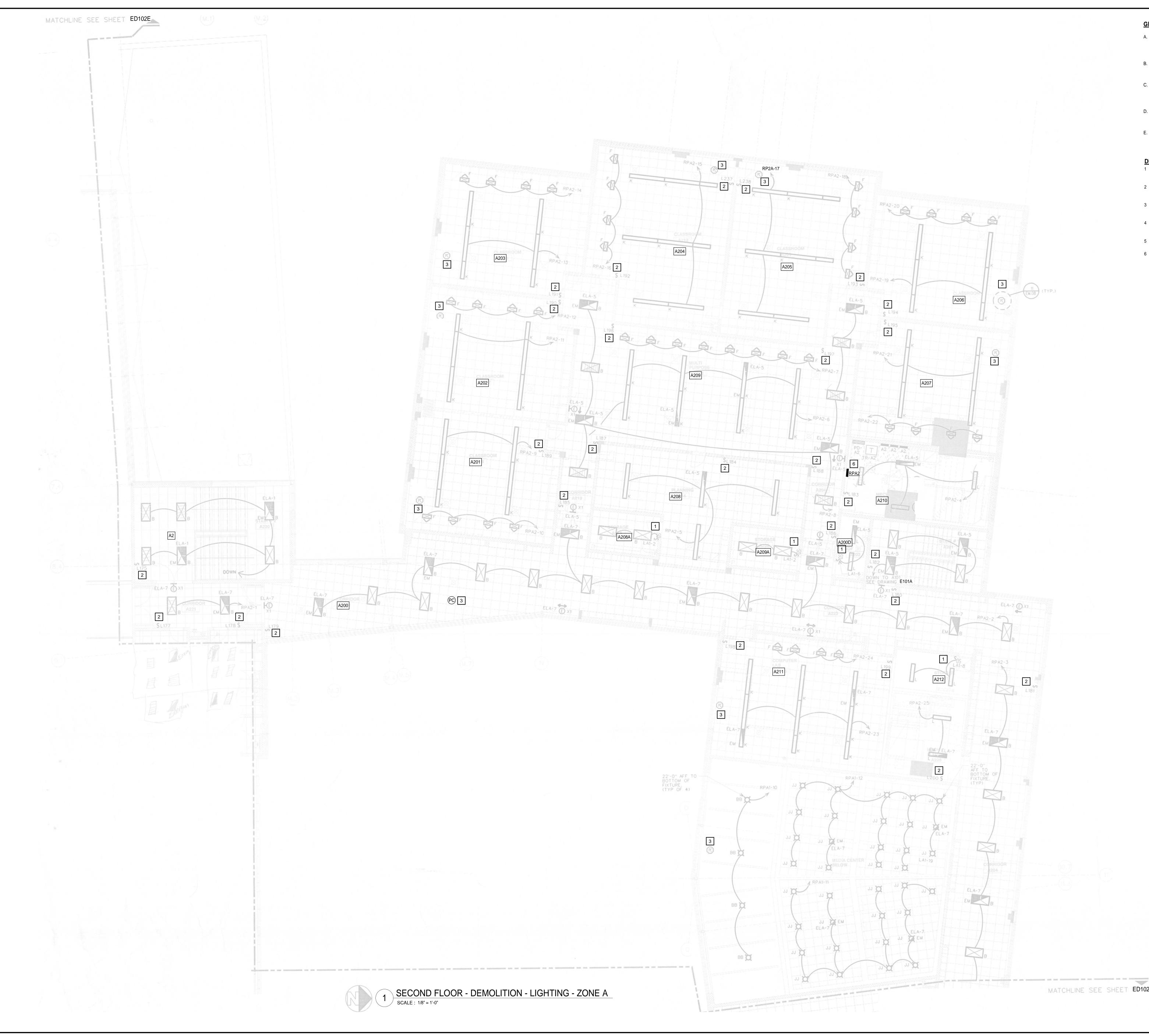
5 DISCONNECT AND REMOVE OCCUPANCY SENSOR AND WIRING.



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



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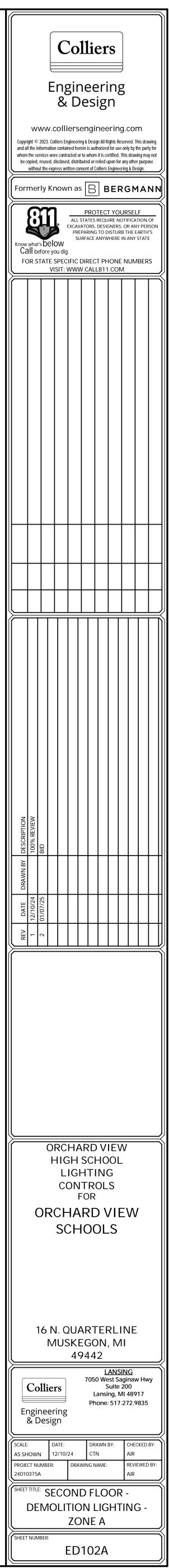
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C. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING

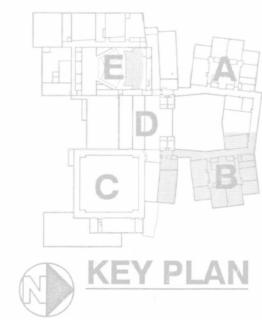




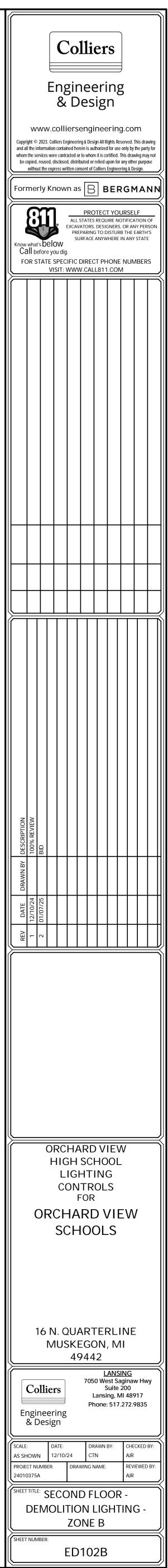
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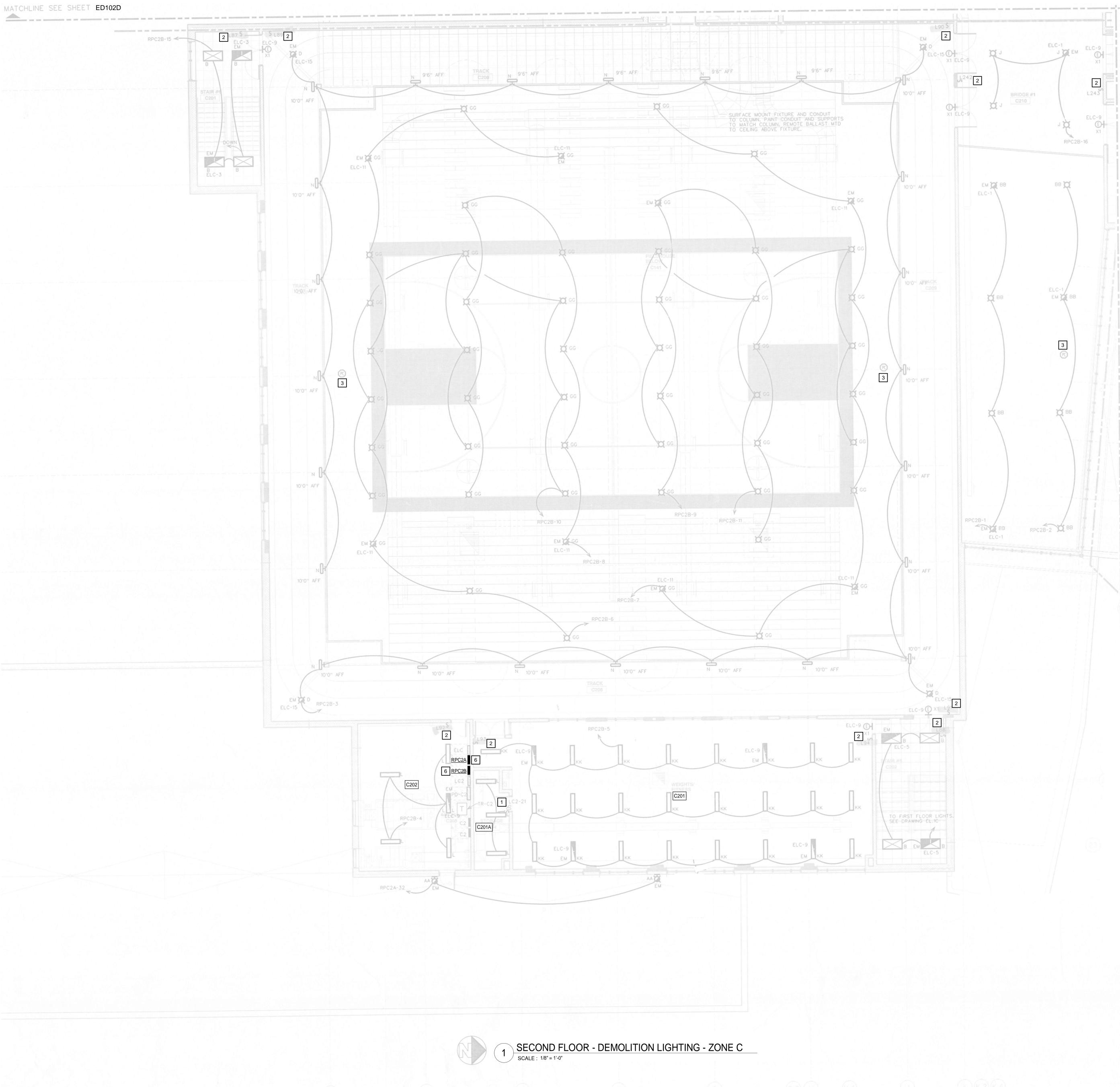
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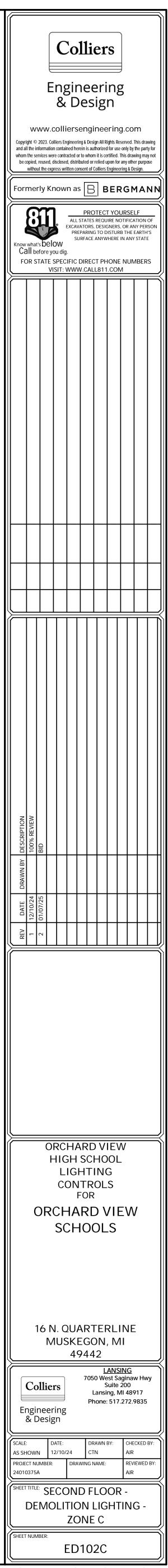
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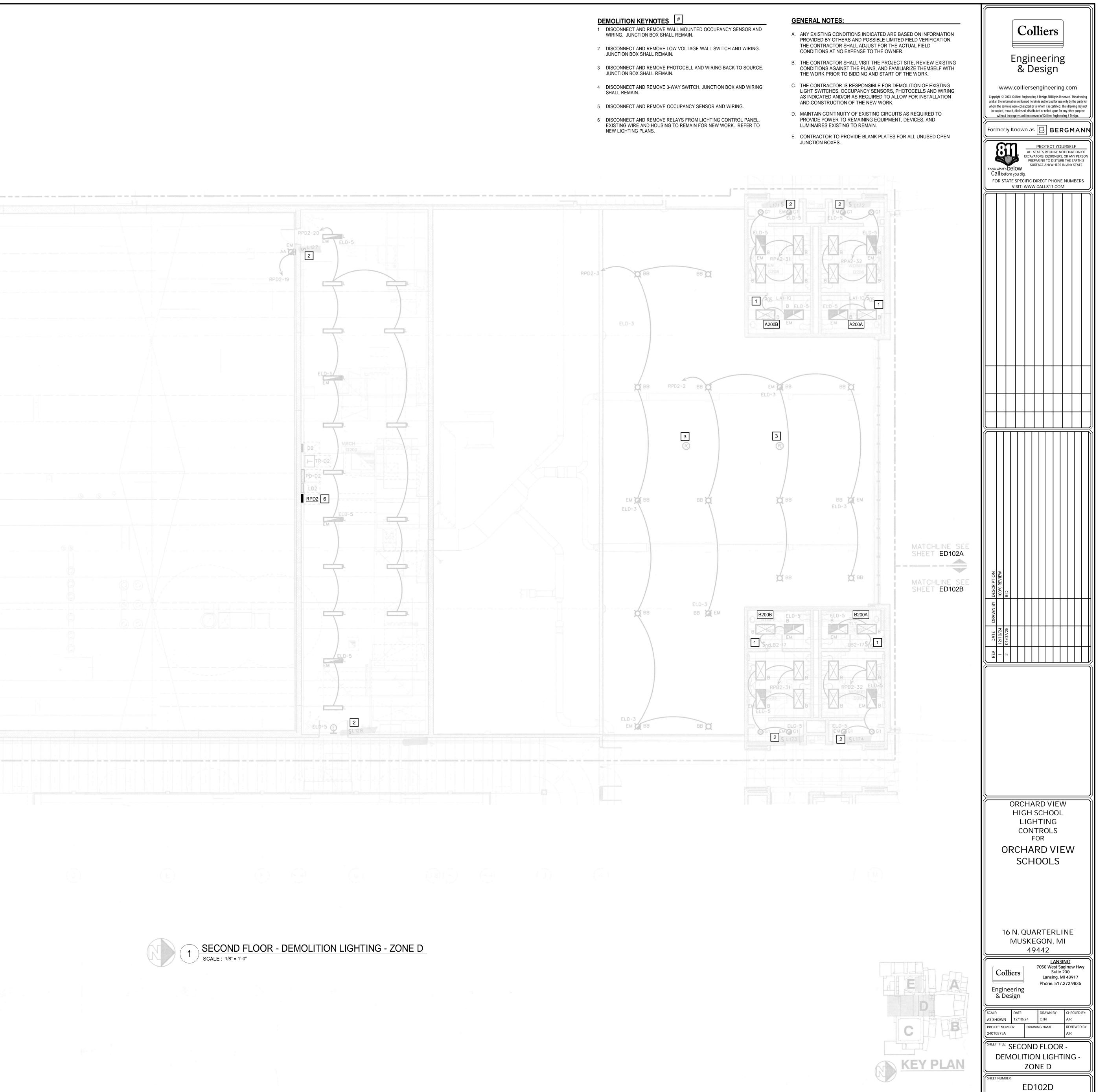
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- 6 DISCONNECT AND REMOVE RELAYS FROM LIGHTING CONTROL PANEL. EXISTING WIRE AND HOUSING TO REMAIN FOR NEW WORK. REFER TO NEW LIGHTING PLANS.

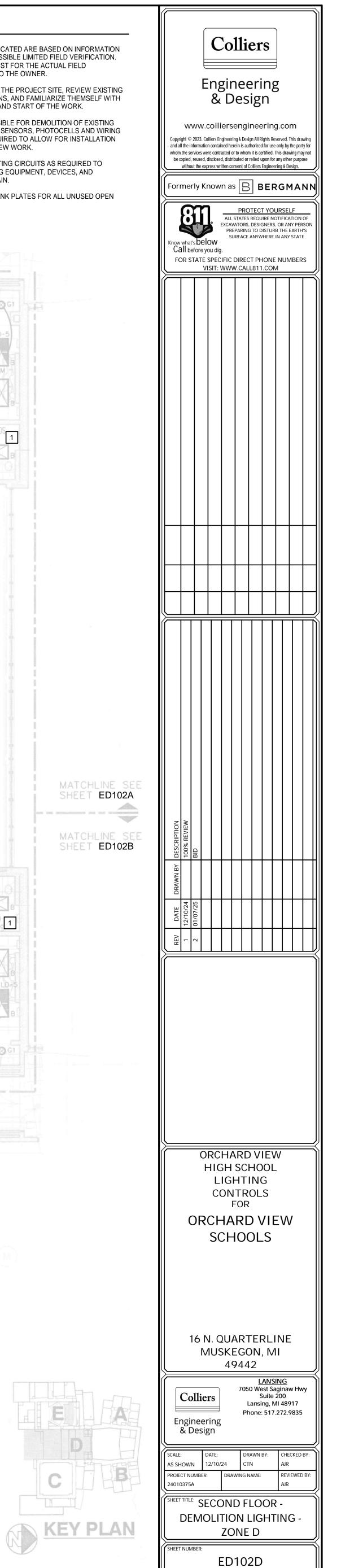


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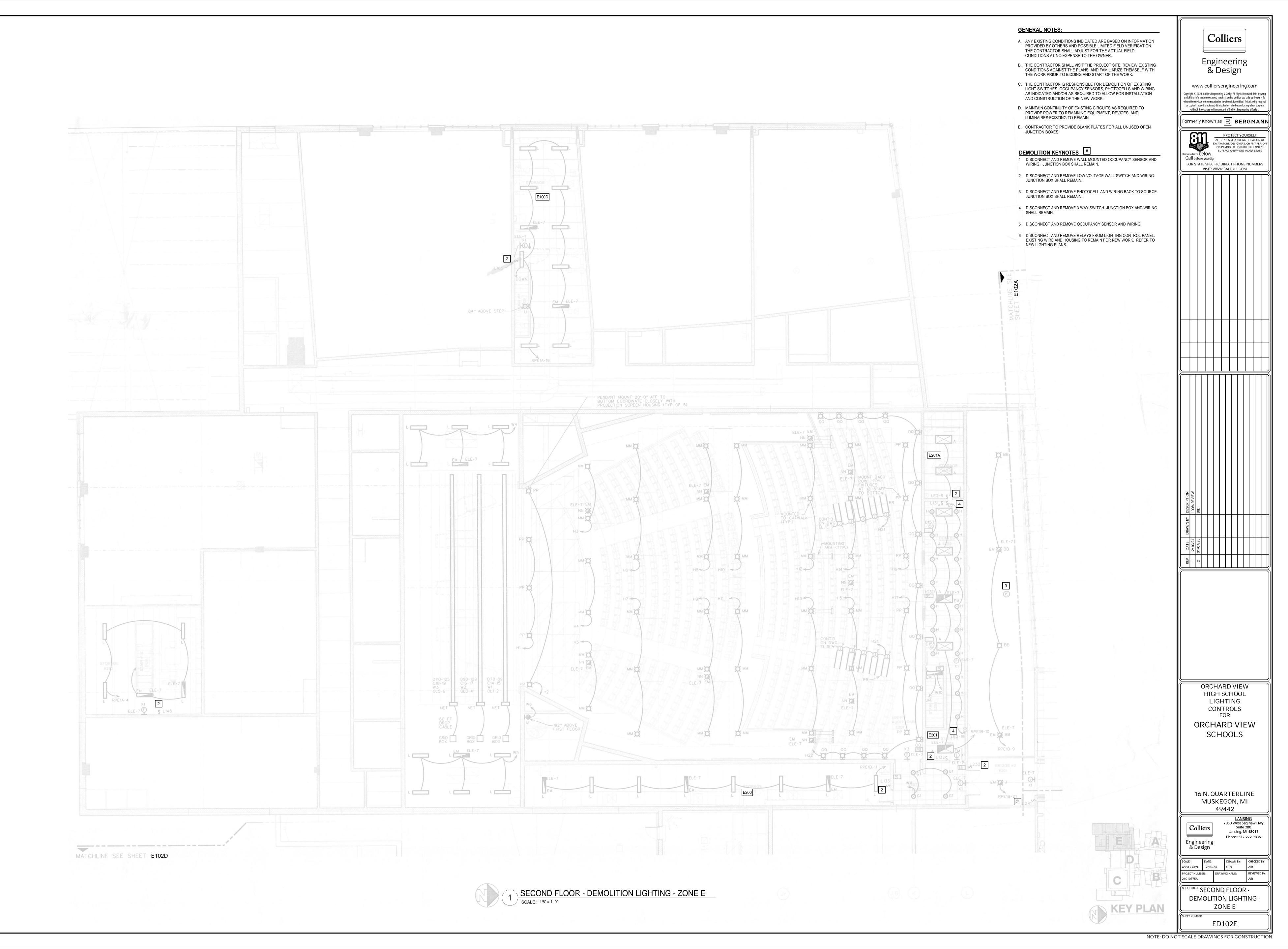


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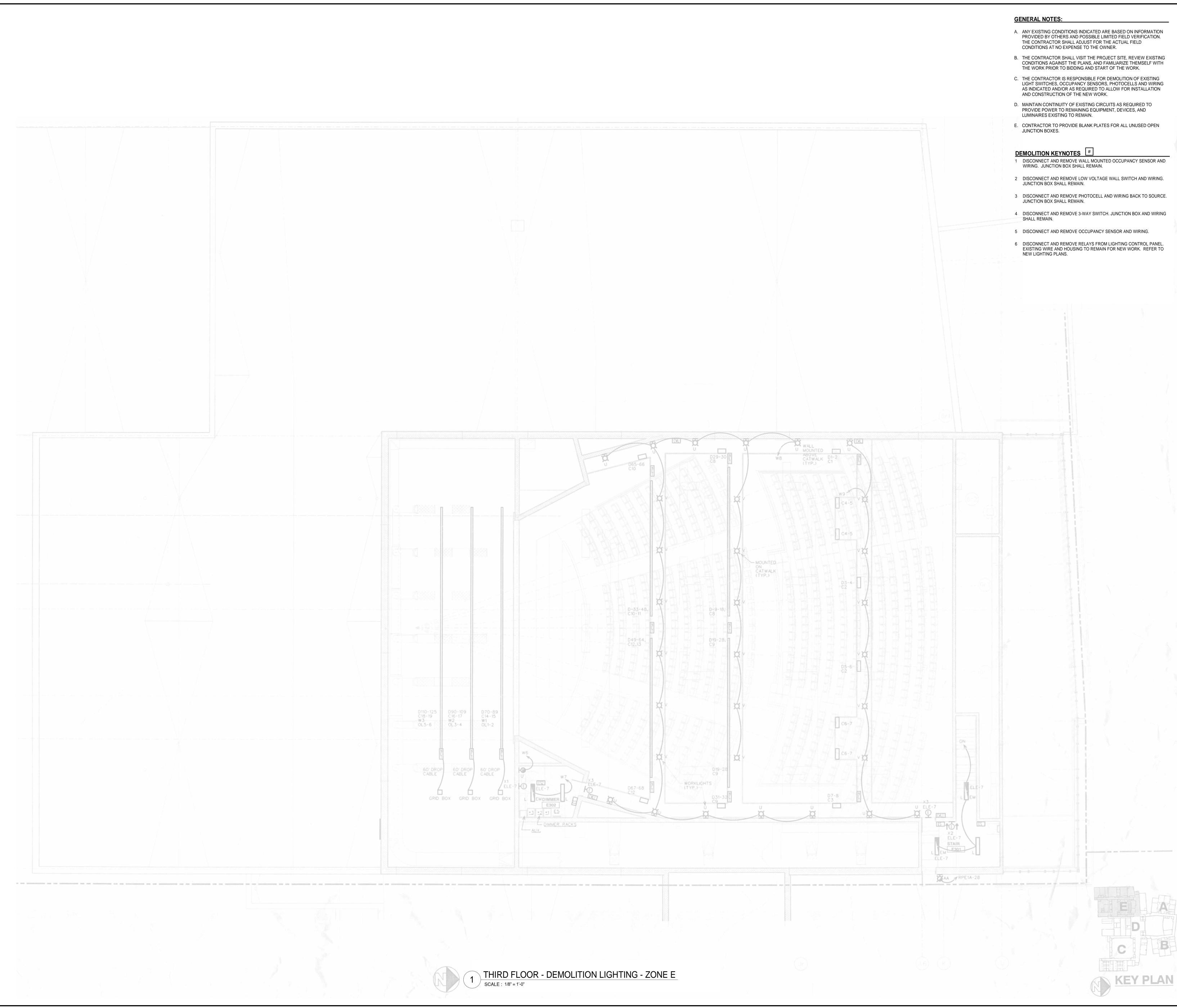




NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



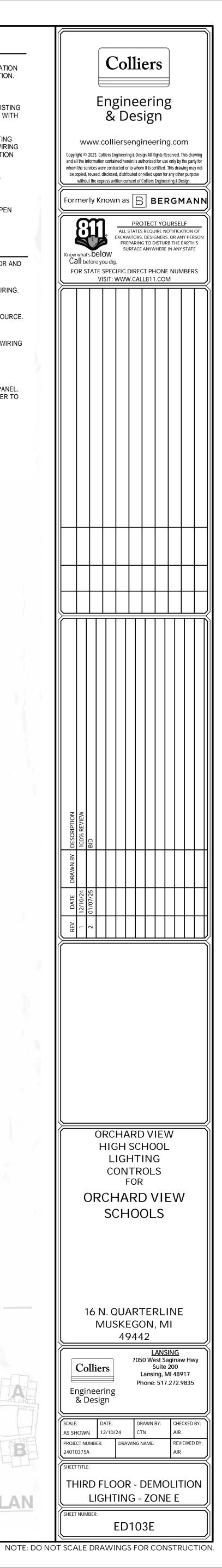
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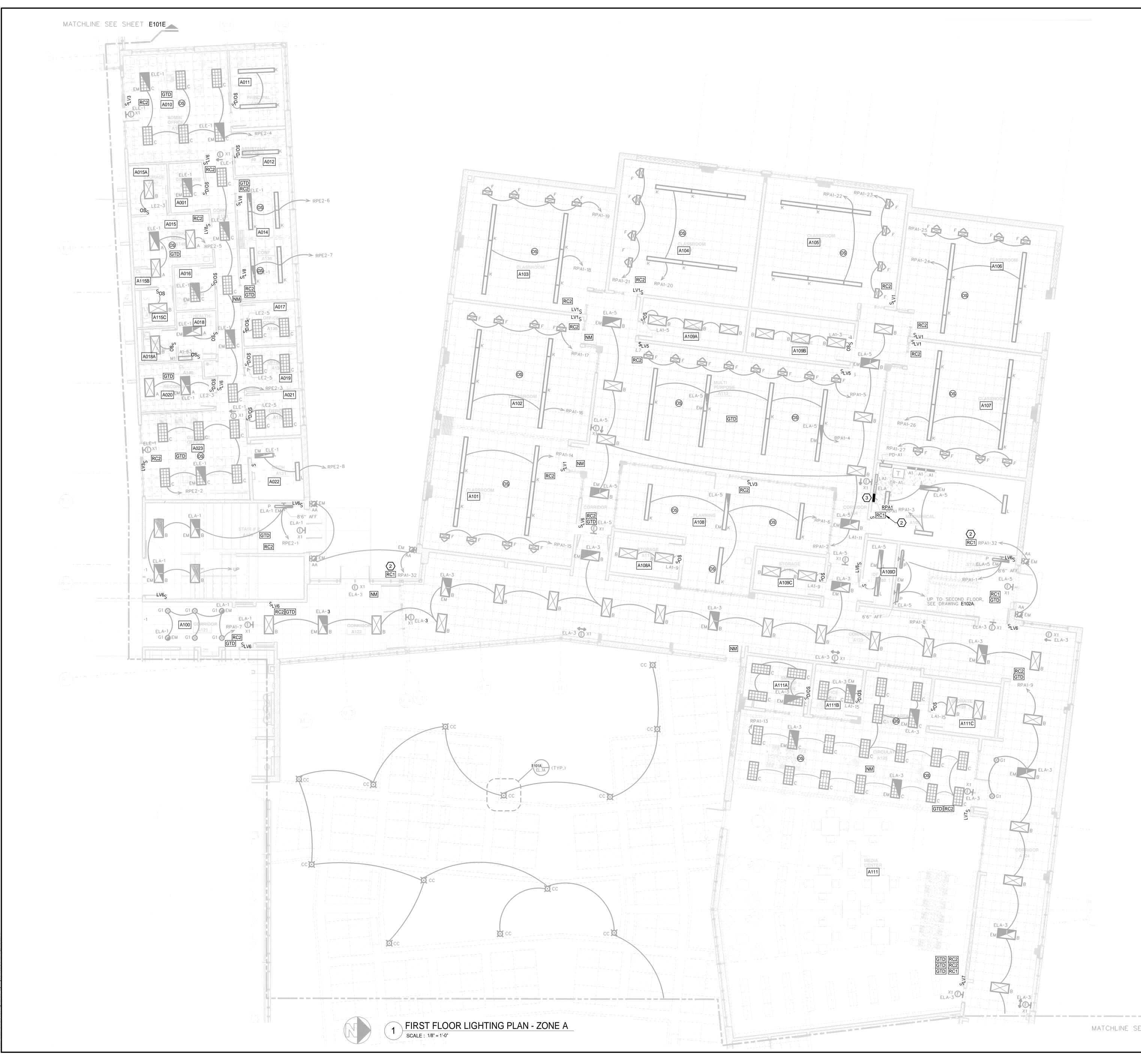


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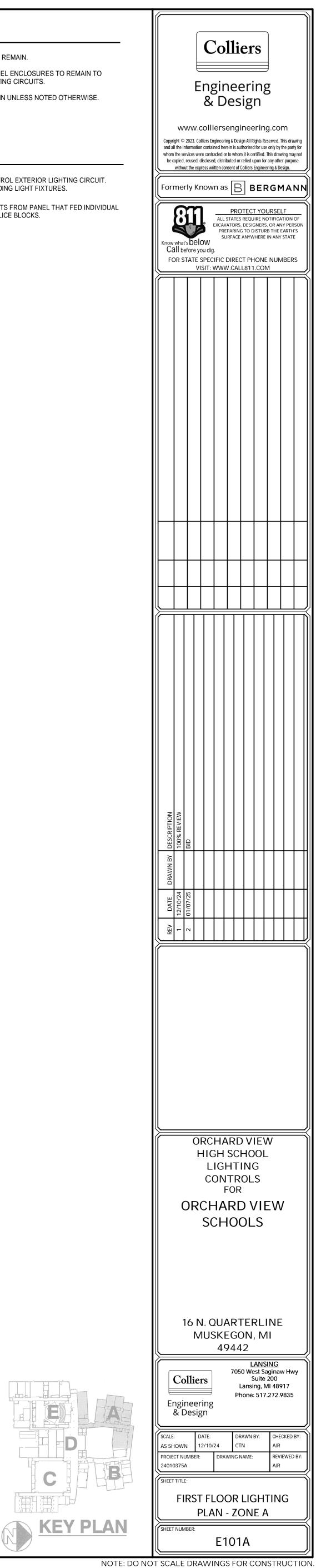




- A. ALL LUMINAIRES ARE EXISTING TO REMAIN.
- B. EXISTING LIGHTING CONTROL PANEL ENCLOSURES TO REMAIN TO SERVE AS PULL BOXES FOR LIGHTING CIRCUITS.
 C. ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SHOWN FOR CLARITY.

LIGHTING KEYNOTES (#)

- 2 ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUIT. LOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.
- 3 SPLICE EXISTING BRANCH CIRCUITS FROM PANEL THAT FED INDIVIDUAL RELAYS TOGETHER. PROVIDE SPLICE BLOCKS.



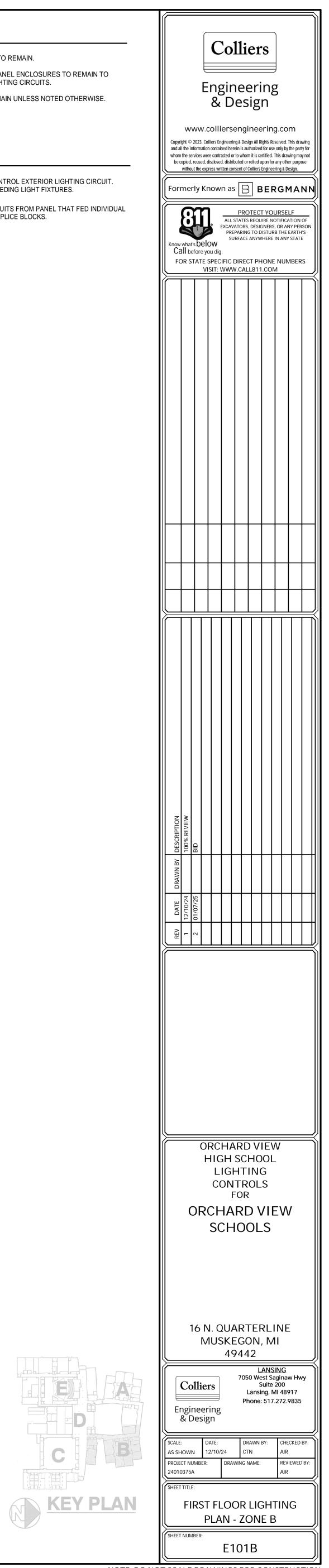
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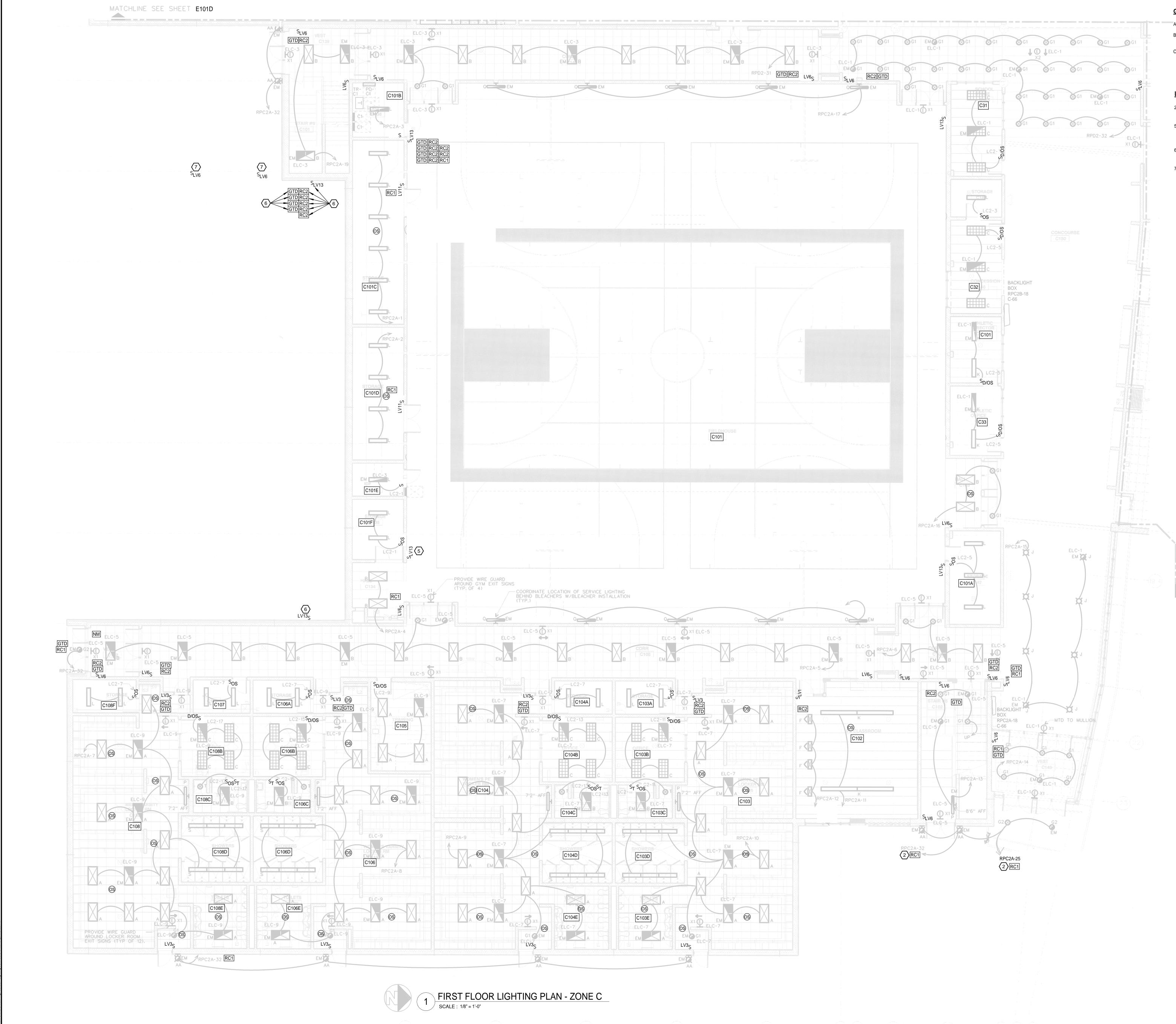
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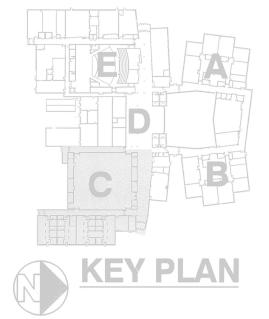
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

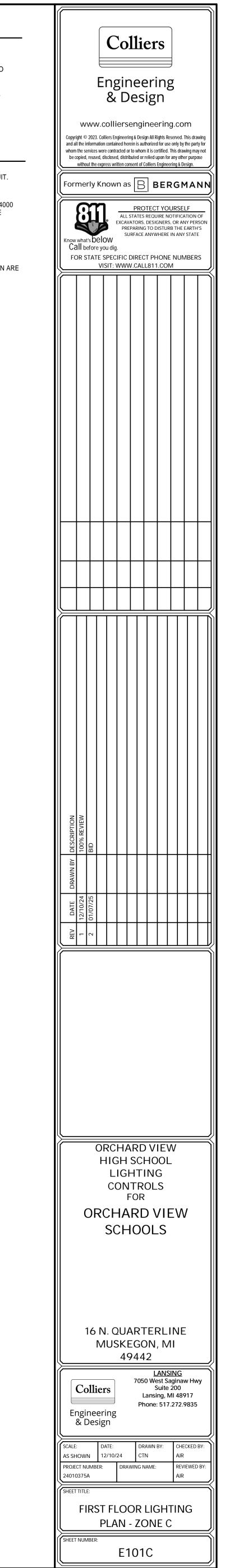


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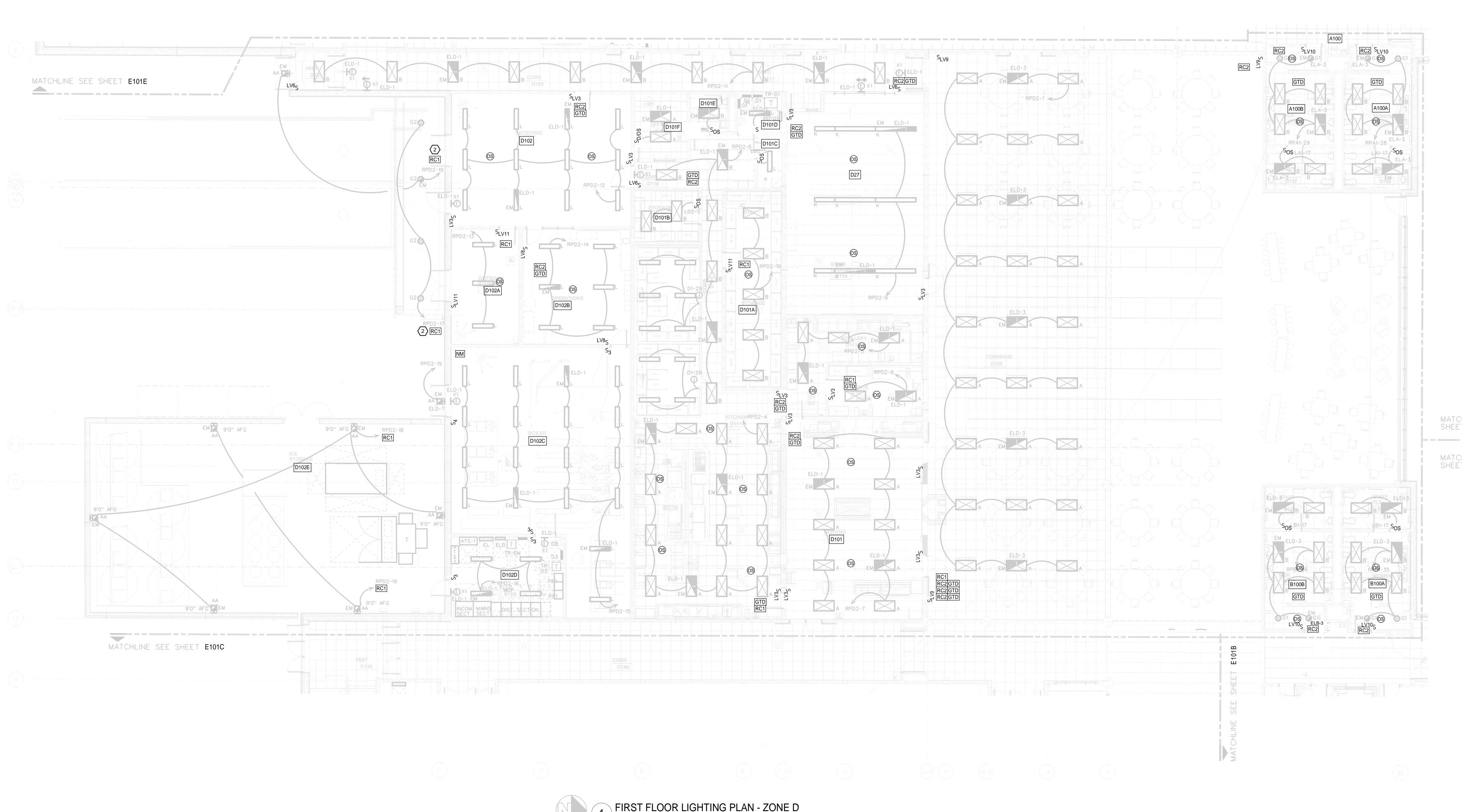
<u>LIGHTING KEYNOTES (#)</u>

- 2 ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUIT. LOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.
- 5 PROVIDE STEEL DUAL CHANNEL SURFACE EQUAL TO WIREMOLD 4000 SERIES. PROVIDE ALL NECESSARY COMPONENTS FOR COMPLETE SYSTEM.
- 6 GYM ADDITION AREA NOT SHOWN ON PLANS. PROVIDE DEVICES SHOWN. COORDINATE IN FIELD.
- 7 STAIRWELL NOT SHOWN CORRECTLY ON PLANS. DEVICES SHOWN ARE PART OF STAIRWELL. COORDINATE IN FIELD.





NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



1 FIRST FLOOR LIGHTING PLAN - ZONE D SCALE : 1/8" = 1'-0"

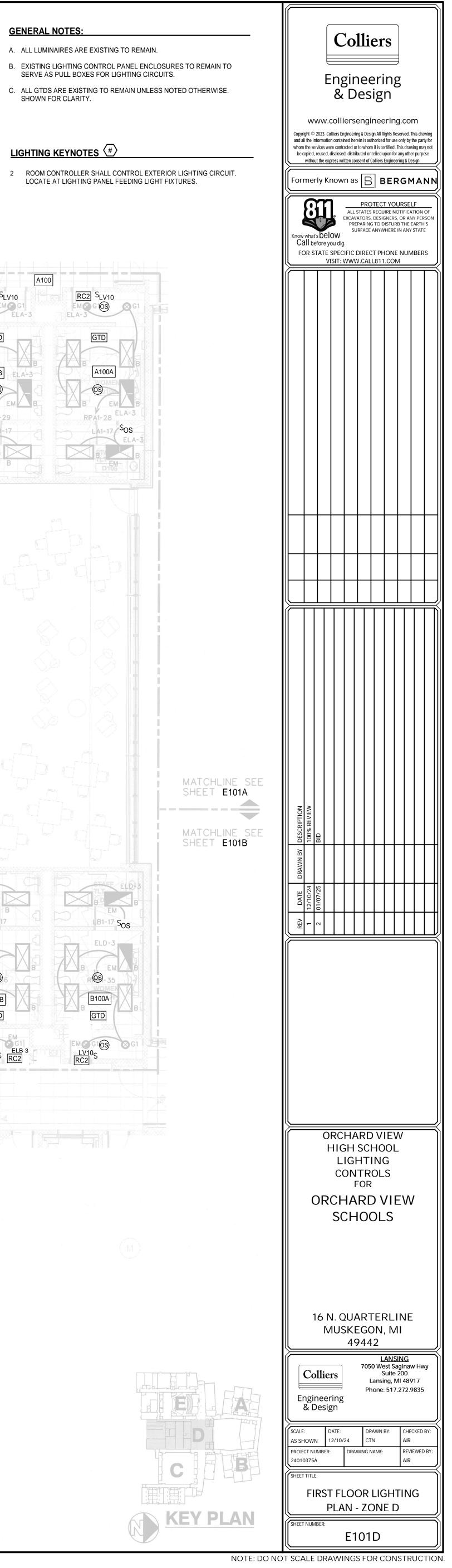
GENERAL NOTES:

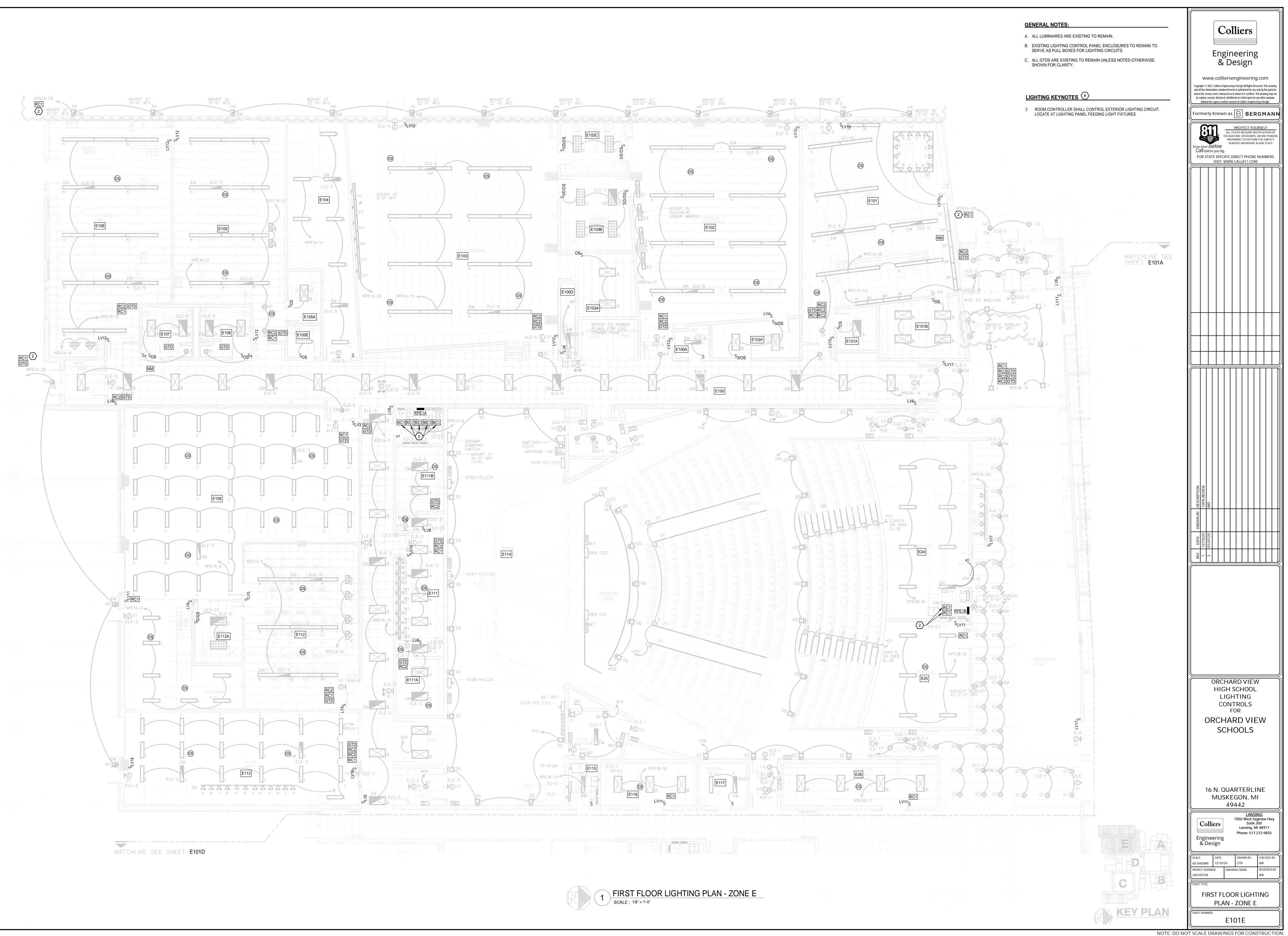
A. ALL LUMINAIRES ARE EXISTING TO REMAIN.

C. ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SHOWN FOR CLARITY.

LIGHTING KEYNOTES

2 ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUIT. LOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.







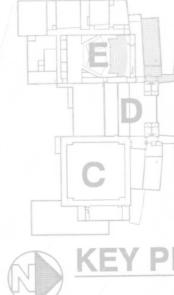
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GENERAL NOTES:

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LIGHTING KEYNOTES

- 2 ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUIT. LOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.
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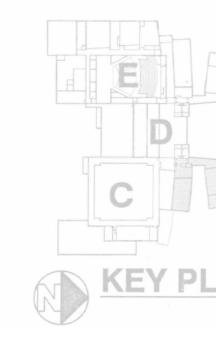
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| CHARD VIEW |
| LIGHTING CONTROLS FOR |
| CHARD VIEW SCHOOLS |
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| LANSING 7050 West Saginaw Hwy Suite 200 Lansing, MI 48917 |
| Phone: 517.272.9835 |
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| D FLOOR LIGHTING |
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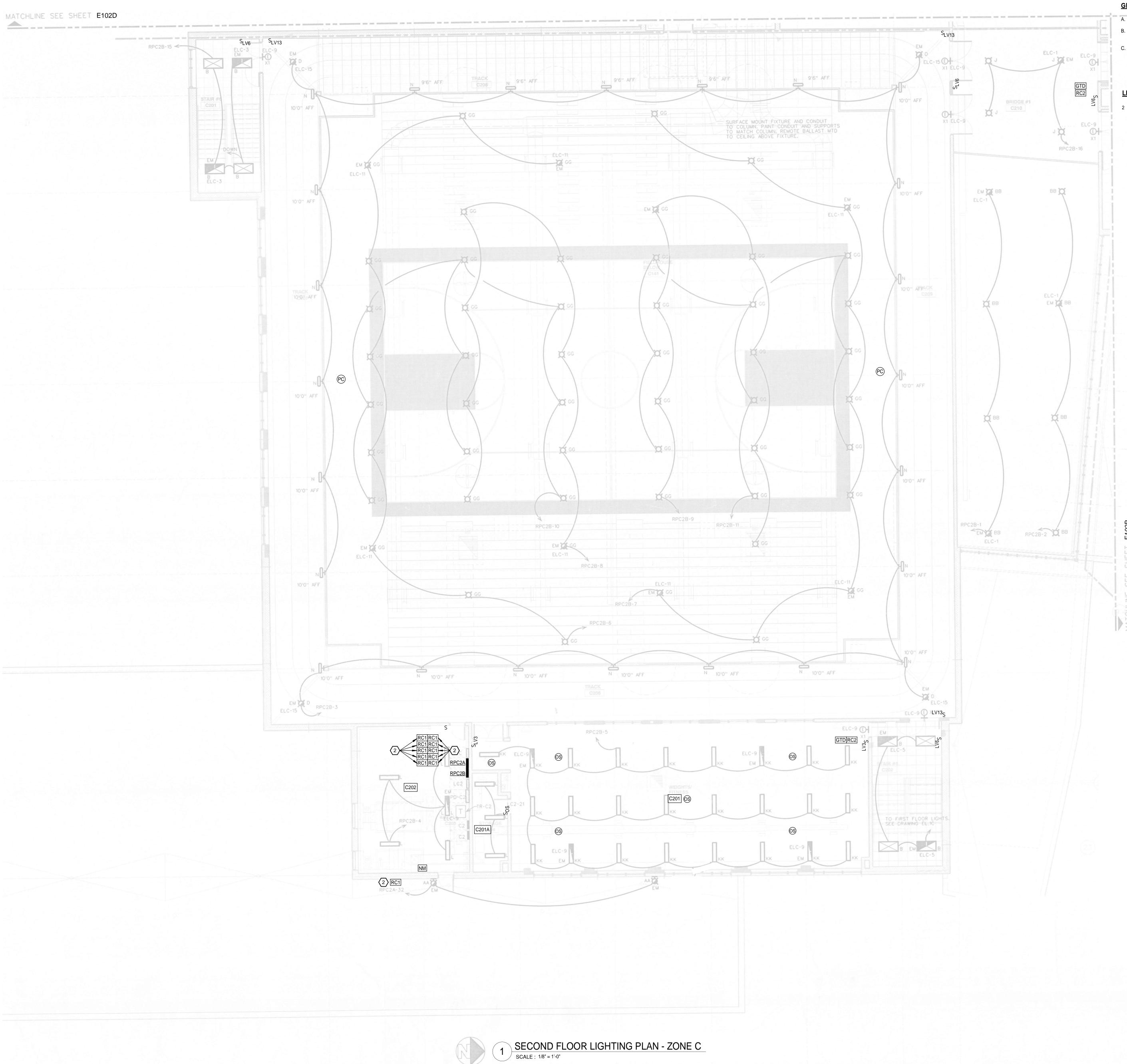
B. EXISTING LIGHTING CONTROL PANEL ENCLOSURES TO REMAIN TO SERVE AS PULL BOXES FOR LIGHTING CIRCUITS.

C. ALL GTDS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. SHOWN FOR CLARITY.



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| | ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS |
| | FOR ORCHARD VIEW SCHOOLS |
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| | 16 N. QUARTERLINE MUSKEGON, MI 49442 |
| | LANSINGColliers7050 West Saginaw Hwy Suite 200 Lansing, MI 48917 Phone: 517.272.9835EngineeringPhone: 517.272.9835 |
| | & Design SCALE: DATE: DRAWN BY: CHECKED BY: AS SHOWN 12/10/24 CTN AIR PROJECT NUMBER: DRAWING NAME: REVIEWED BY: 24010375A AIR |
| | SHEET TITLE: SECOND FLOOR LIGHTING PLAN - ZONE B |
| | SHEET NUMBER: E102B |

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- A. ALL LUMINAIRES ARE EXISTING TO REMAIN.
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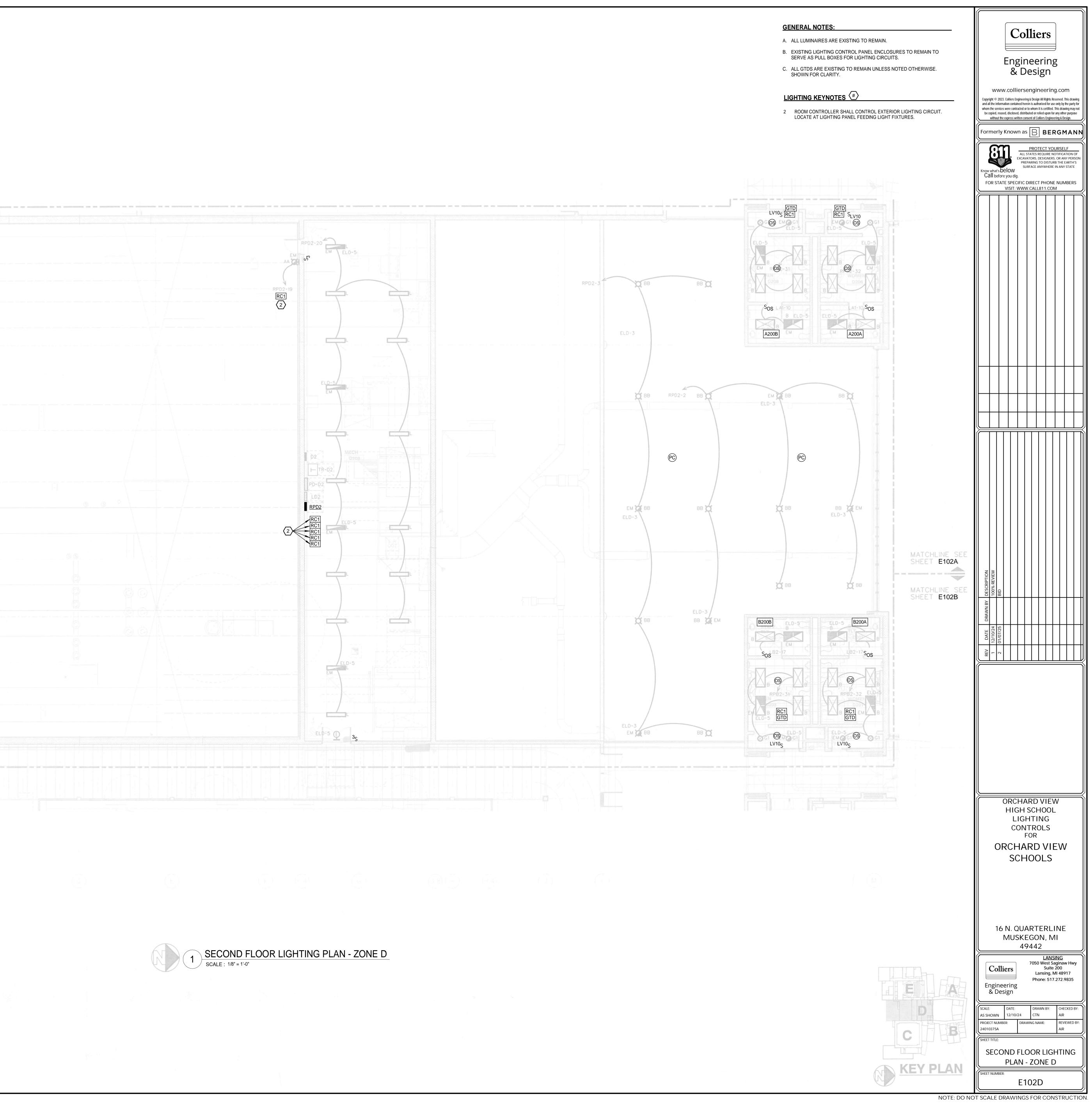
LIGHTING KEYNOTES

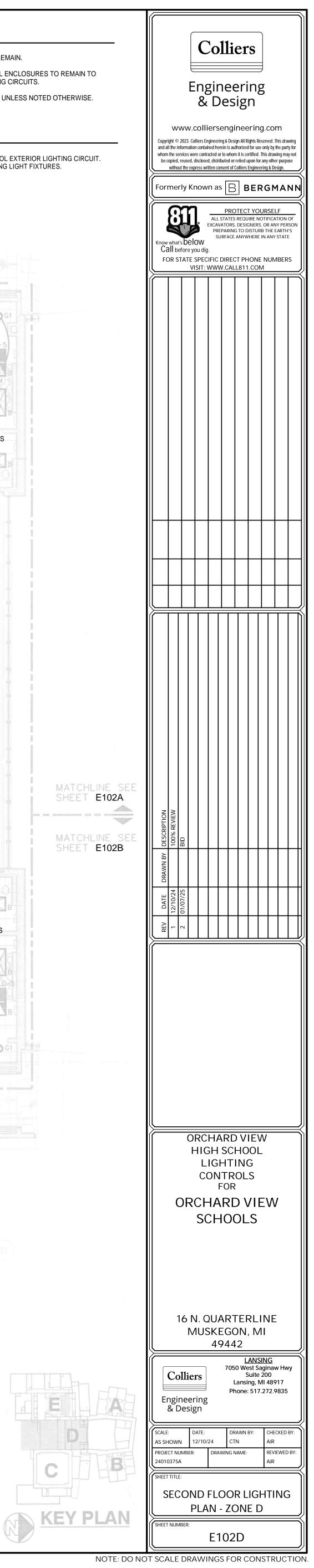
ROOM CONTROLLER SHALL CONTROL EXTERIOR LIGHTING CIRCUITLOCATE AT LIGHTING PANEL FEEDING LIGHT FIXTURES.



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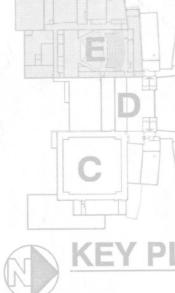




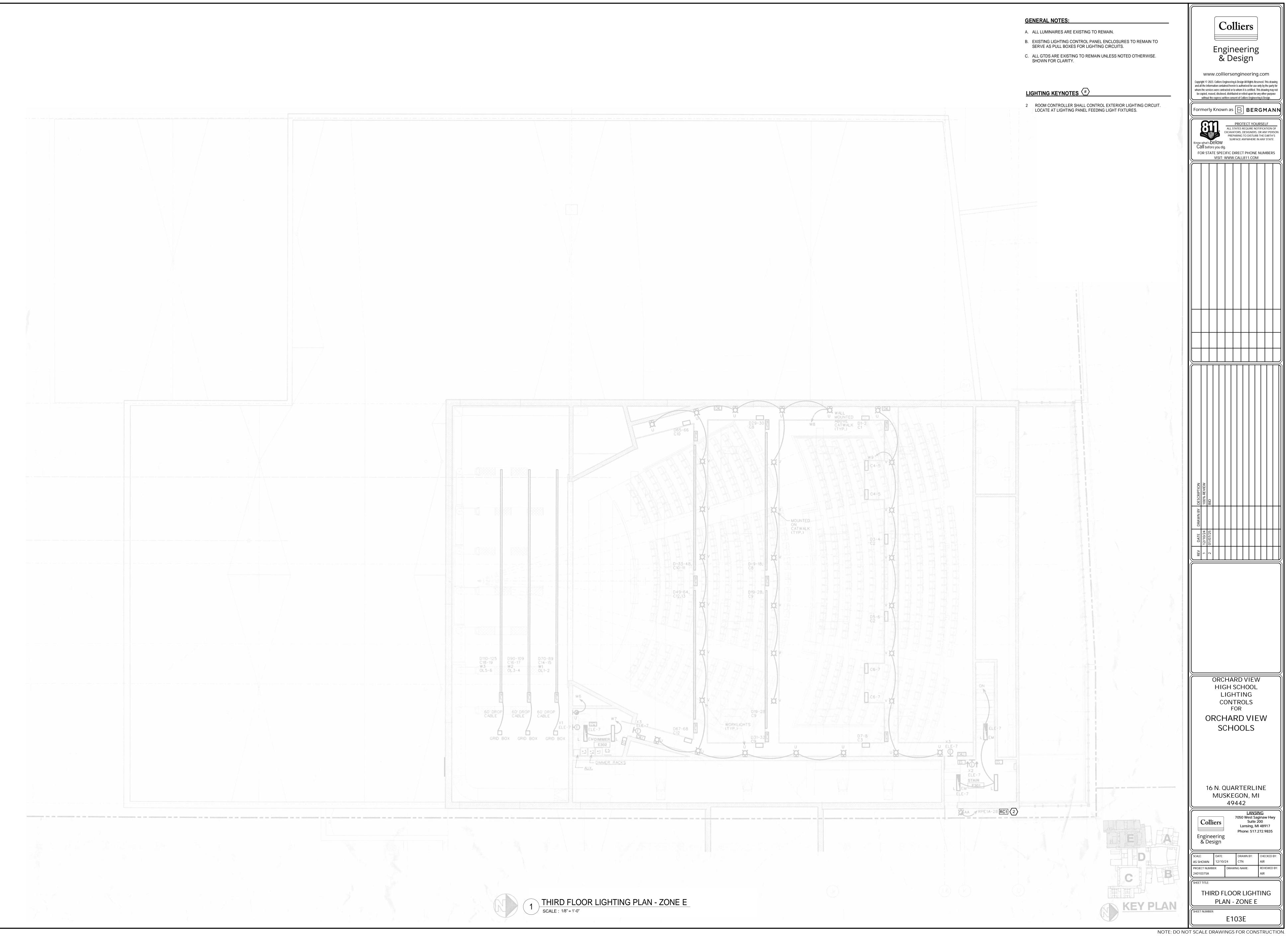
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LIGHTING KEYNOTES

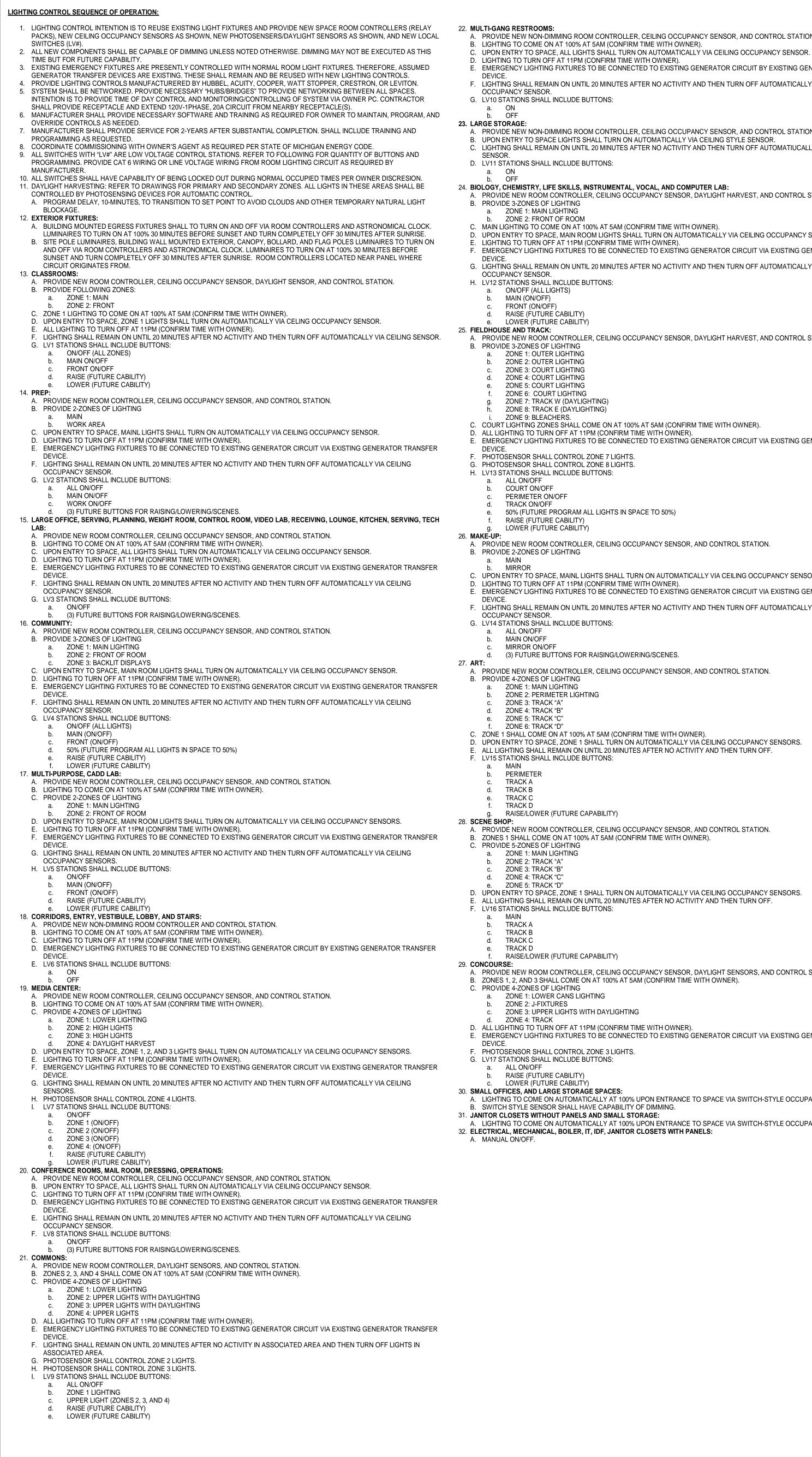
- 1 PHOTOCELL SHALL TURN ON AND OFF ROW OF LIGHTS CLOSEST T WINDOWS.
- 4 TYPE 'H' FIXTURES SHALL REMAIN CONTROLLED THROUGH THEATRICAL.



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A. PROVIDE NEW NON-DIMMING ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.

E. EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT BY EXISTING GENERATOR TRANSFER F. LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING

A. PROVIDE NEW NON-DIMMING ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION. B. UPON ENTRY TO SPACE LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING STYLE SENSOR.

C. LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATIUCALLY VIA CEILING STYLE

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, DAYLIGHT HARVEST, AND CONTROL STATION.

D. UPON ENTRY TO SPACE, MAIN ROOM LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR. F. EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER G. LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, DAYLIGHT HARVEST, AND CONTROL STATION.

C. COURT LIGHTING ZONES SHALL COME ON AT 100% AT 5AM (CONFIRM TIME WITH OWNER).

E. EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.

C. UPON ENTRY TO SPACE, MAINL LIGHTS SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSOR. EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER F. LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF AUTOMATICALLY VIA CEILING

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, AND CONTROL STATION.

UPON ENTRY TO SPACE, ZONE 1 SHALL TÜRN ON AUTOMATICALLY VIA ĆEILING OCCUPANCY SENSORS. . ALL LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF.

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UPON ENTRY TO SPACE, ZONE 1 SHALL TURN ON AUTOMATICALLY VIA CEILING OCCUPANCY SENSORS. E. ALL LIGHTING SHALL REMAIN ON UNTIL 20 MINUTES AFTER NO ACTIVITY AND THEN TURN OFF.

A. PROVIDE NEW ROOM CONTROLLER, CEILING OCCUPANCY SENSOR, DAYLIGHT SENSORS, AND CONTROL STATION.

E. EMERGENCY LIGHTING FIXTURES TO BE CONNECTED TO EXISTING GENERATOR CIRCUIT VIA EXISTING GENERATOR TRANSFER

A. LIGHTING TO COME ON AUTOMATICALLY AT 100% UPON ENTRANCE TO SPACE VIA SWITCH-STYLE OCCUPANCY SENSOR.

A. LIGHTING TO COME ON AUTOMATICALLY AT 100% UPON ENTRANCE TO SPACE VIA SWITCH-STYLE OCCUPANCY SENSOR.

NEUTRAL/WHITE FARTH GROUND LV1 CEILING DUAL TECH OCCUPANCY SENSOR • • •

BLACK

BLACK

BLACK

ROOM CONTROLLER LV1

UNSWITCHED NORMAL

HOT BLK

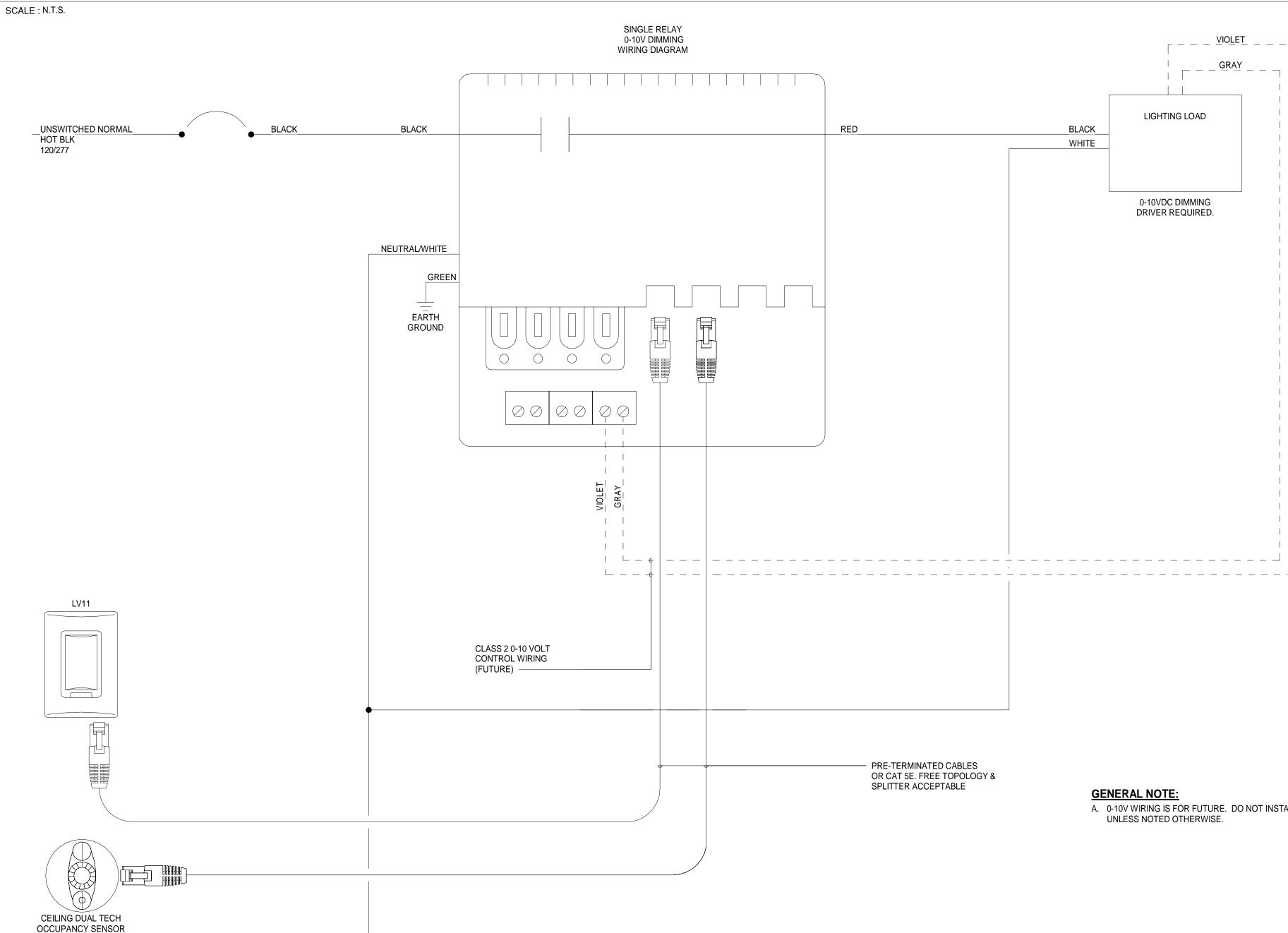
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BLACK UNSWITCHED NORMAL HOT BLK

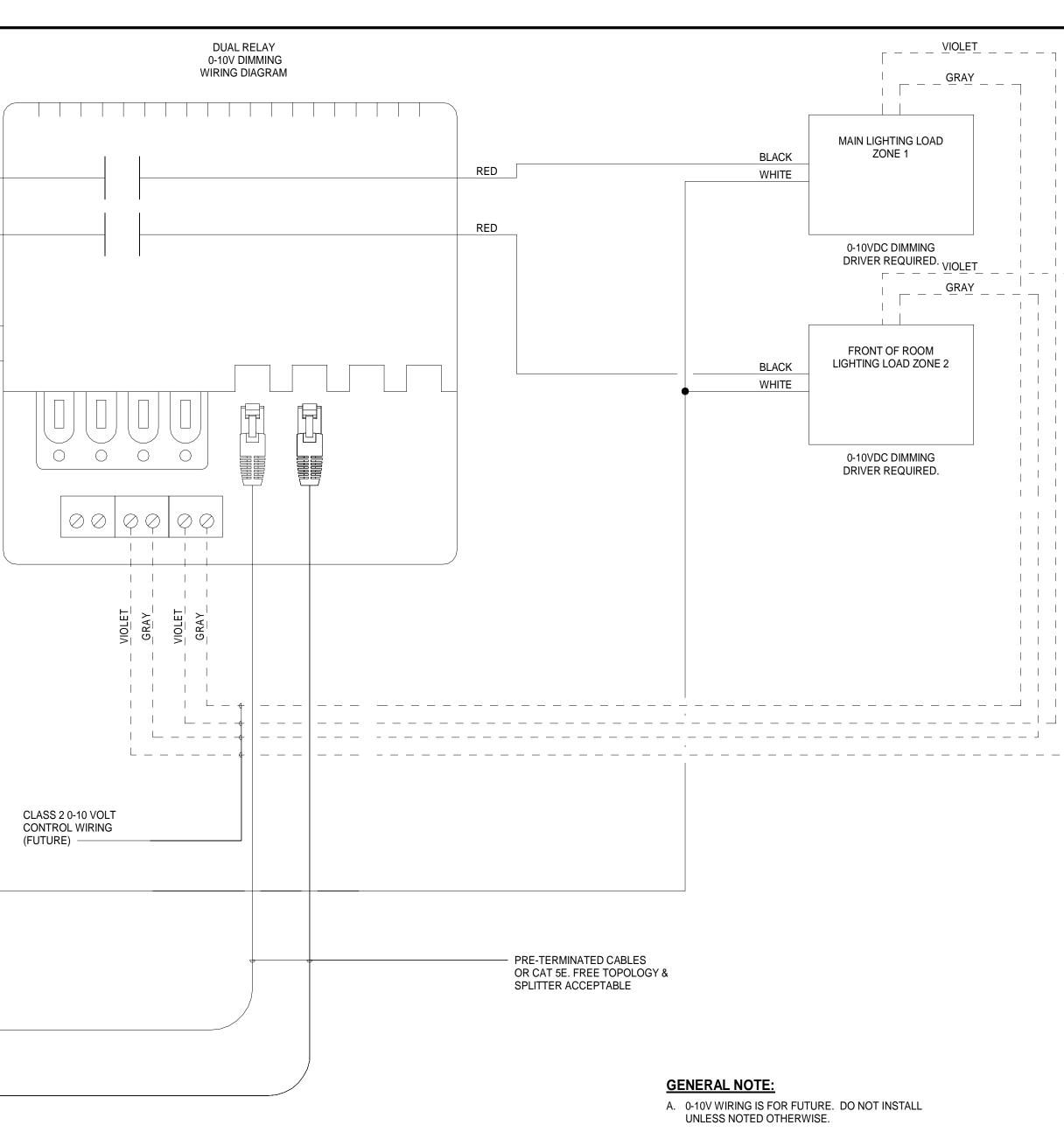
NEUTRAL BUS

• • • NEUTRAL BUS NORMAL PANEL

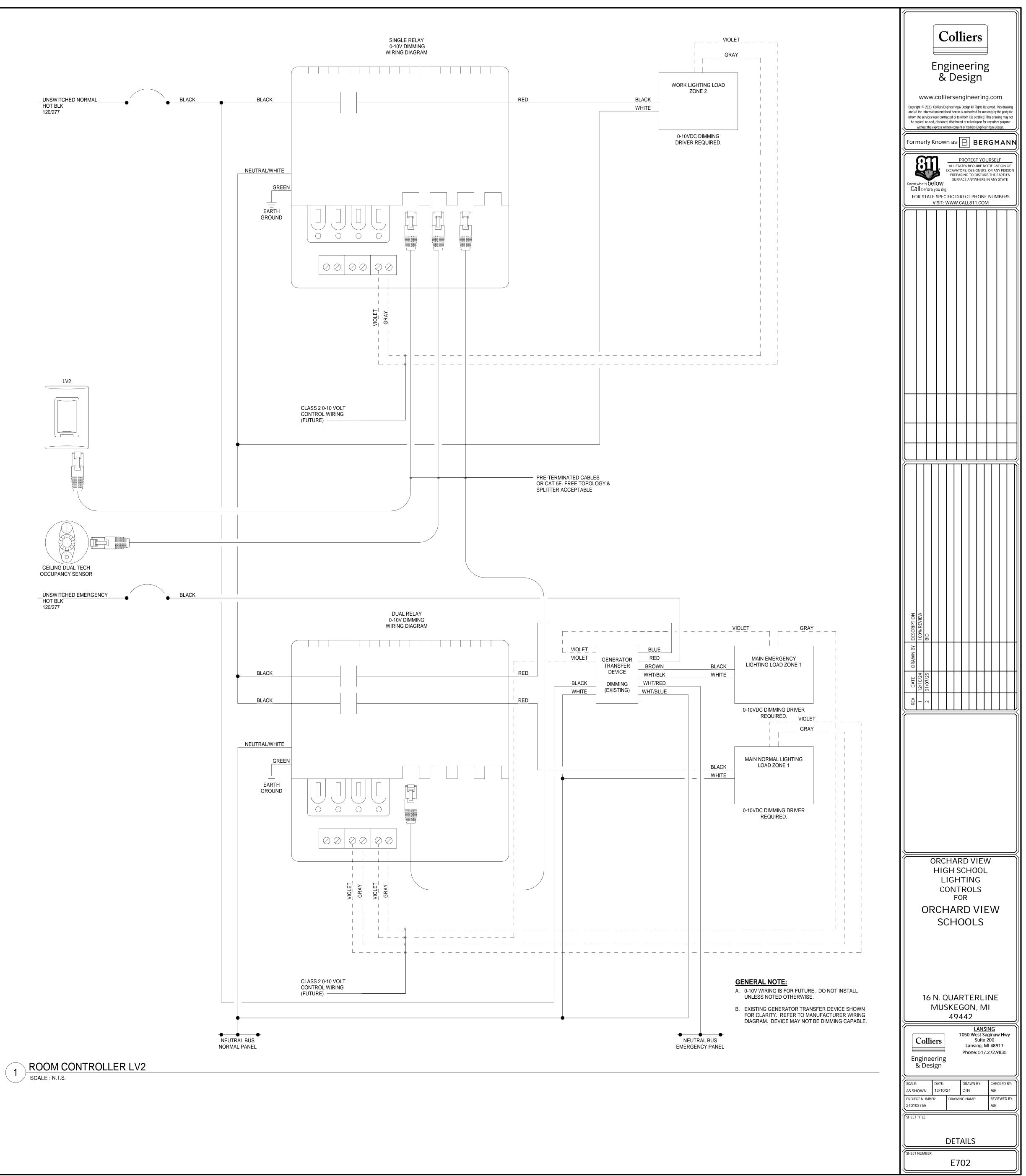
NORMAL PANEL



ROOM CONTROLLER LV11 SCALE : N.T.S.

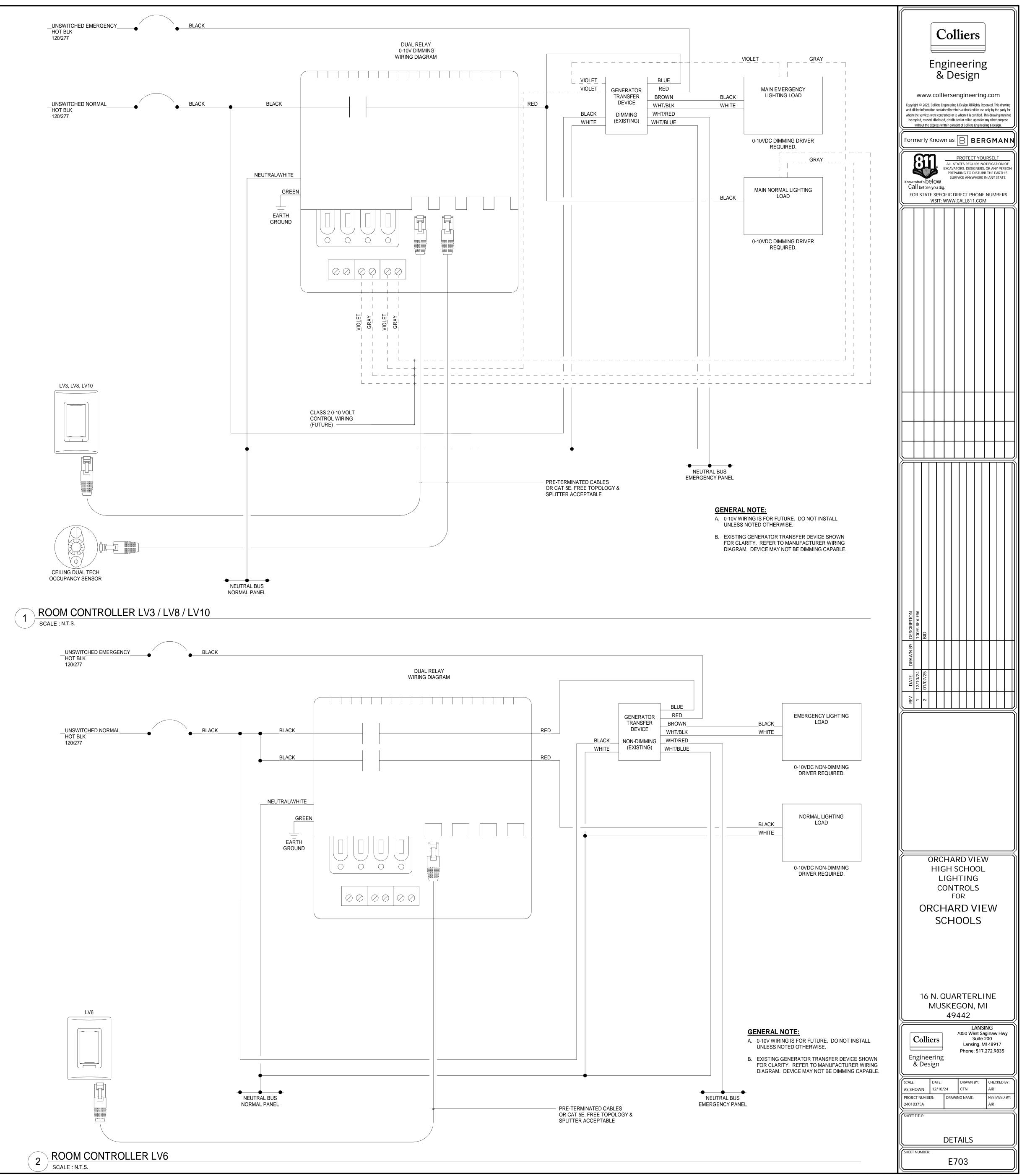


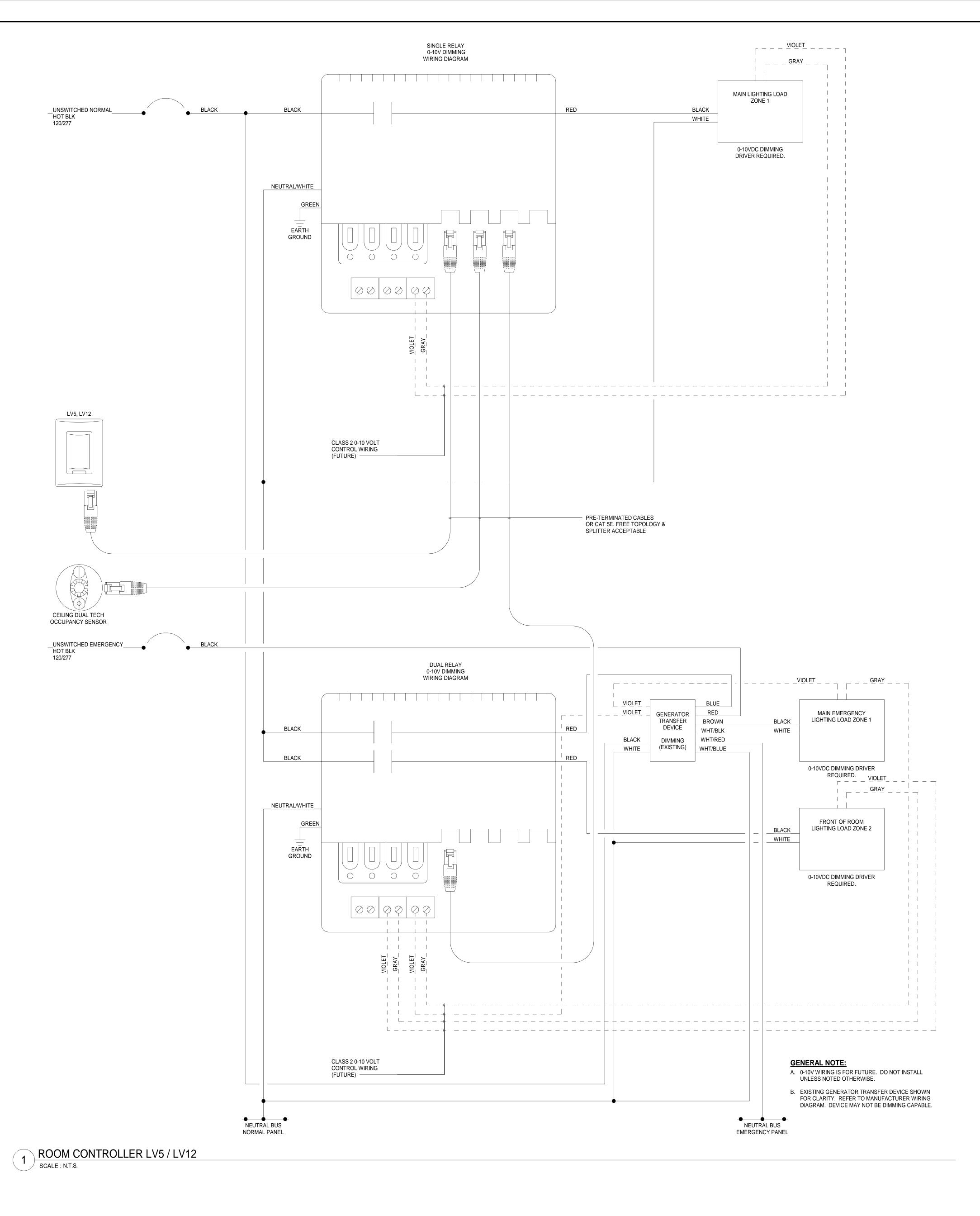
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| | ORCHARD VIEW HIGH SCHOOL LIGHTING CONTROLS FOR |
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| ALL | Lansing, MI 48917 Phone: 517.272.9835 Engineering & Design SCALE: DATE: DRAWN BY: CHECKED BY: AS SHOWN 12/10/24 CTN AJR |
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| | DETAILS SHEET NUMBER: E701 |

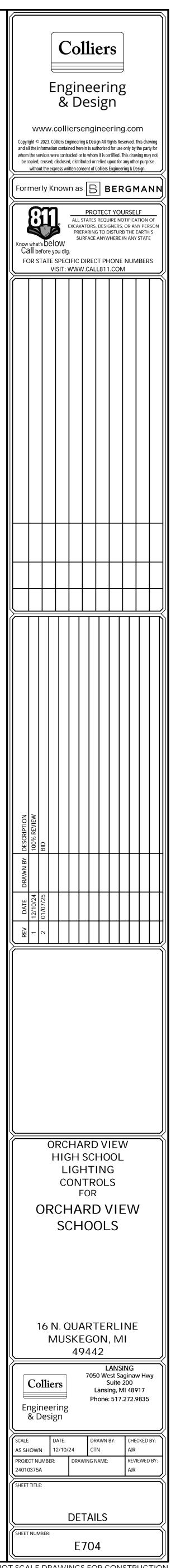


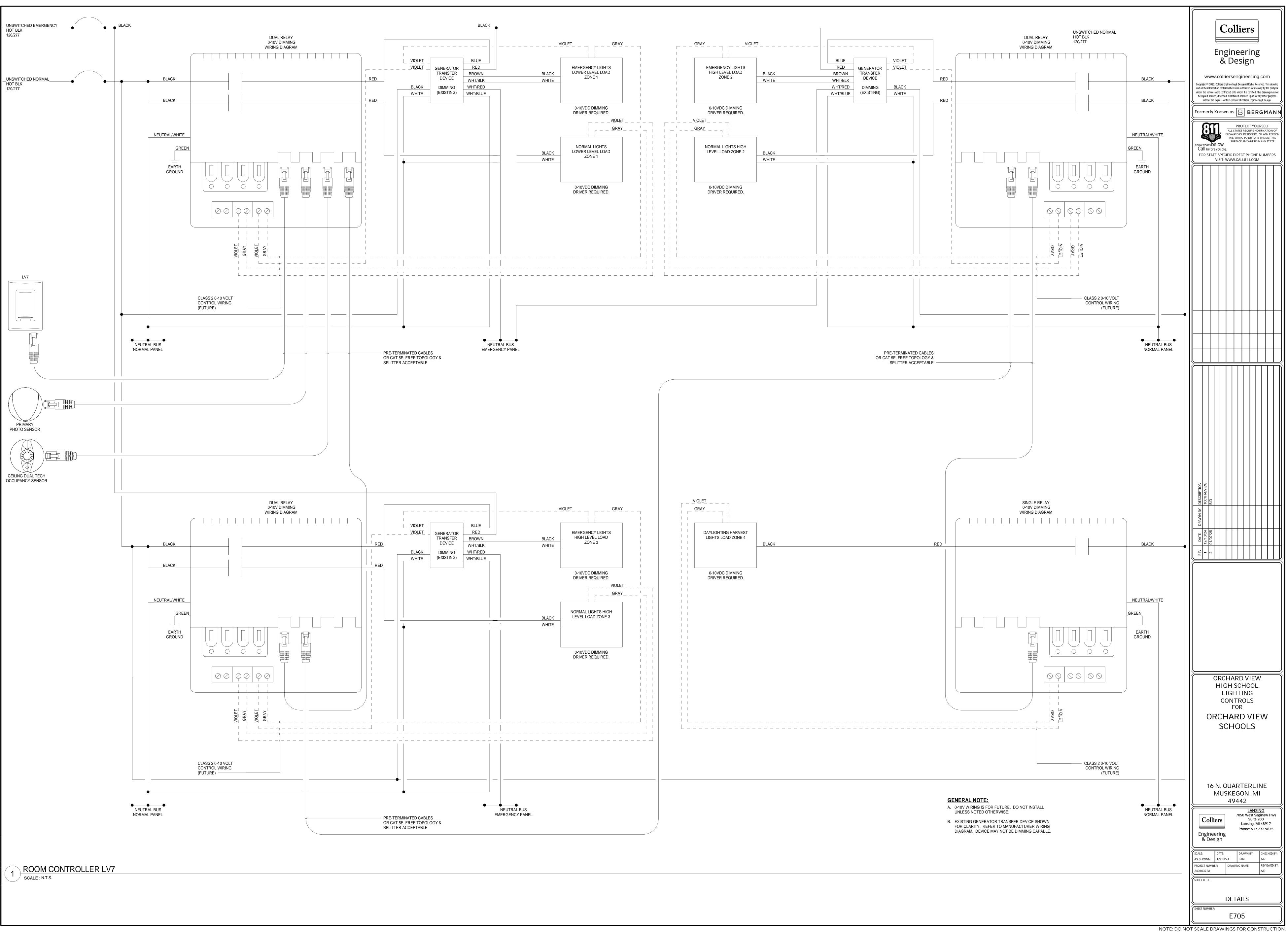
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

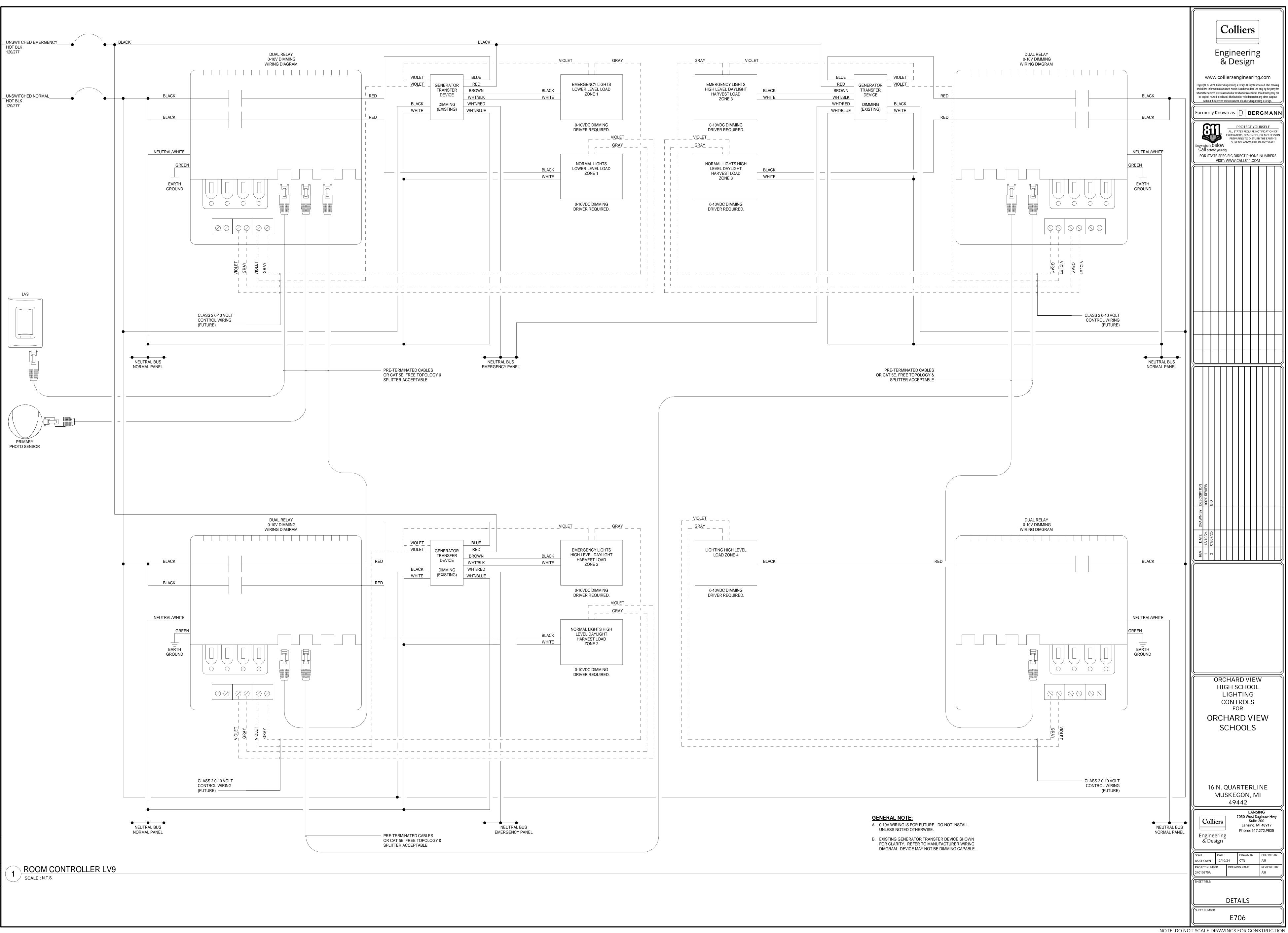


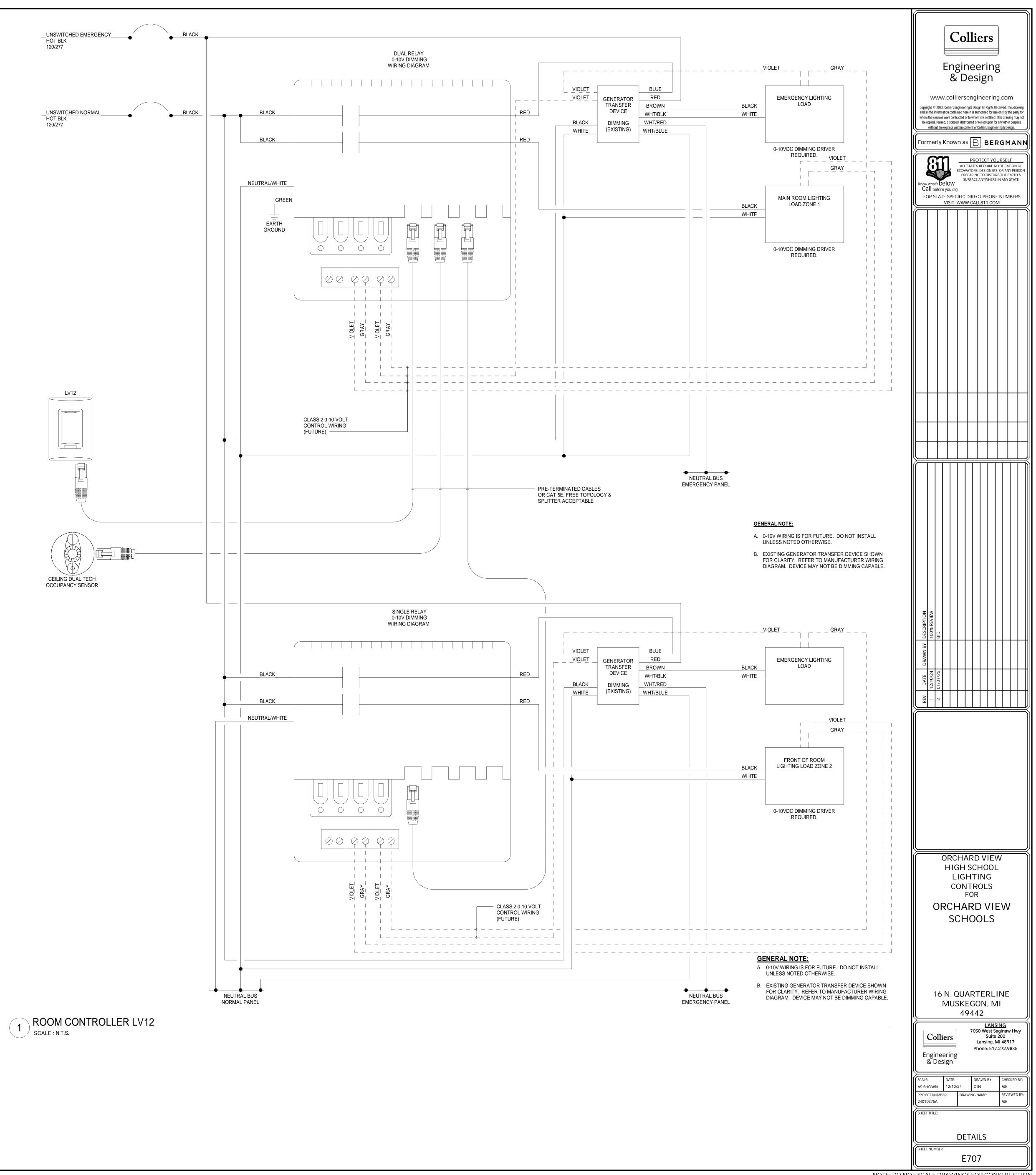


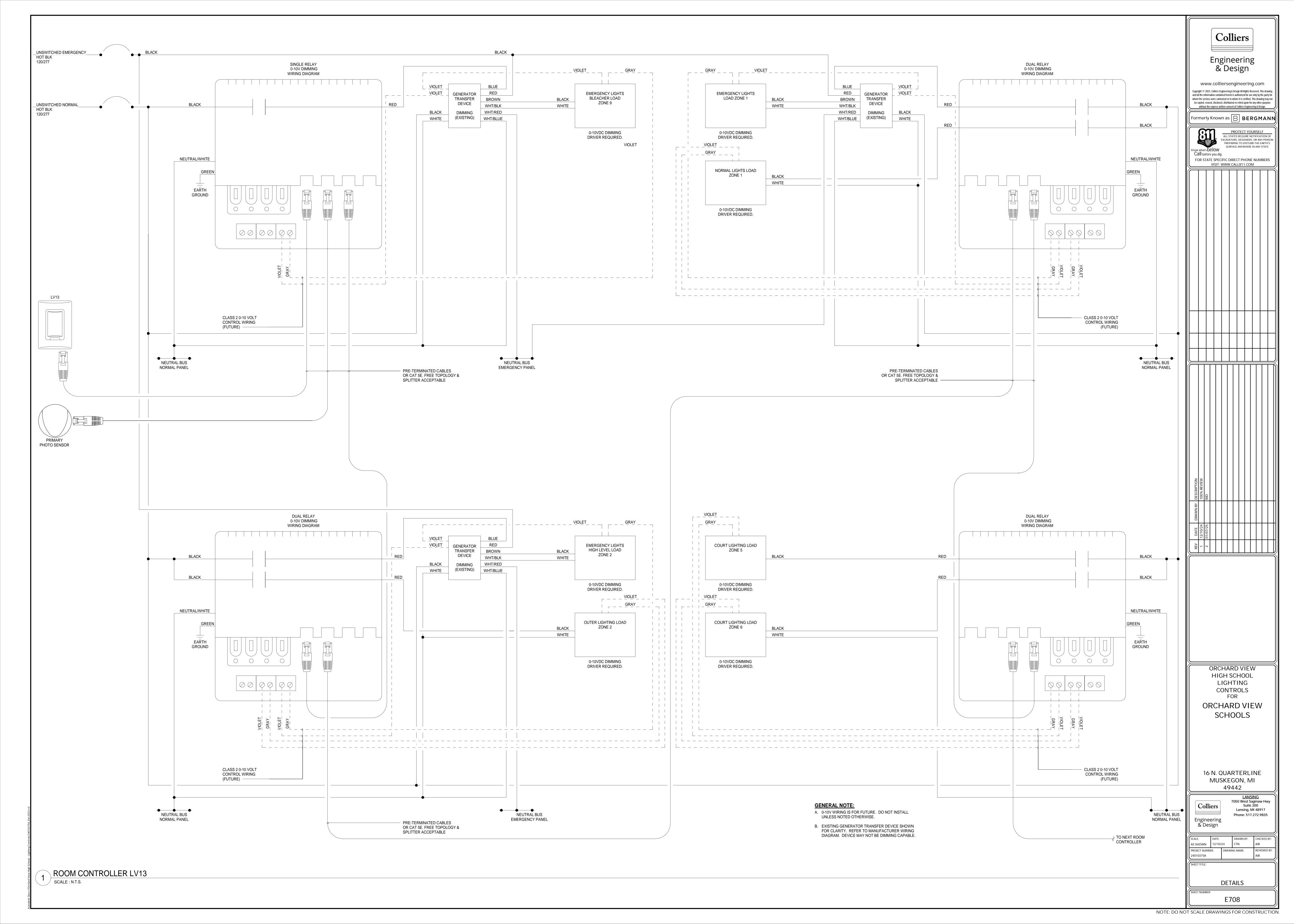


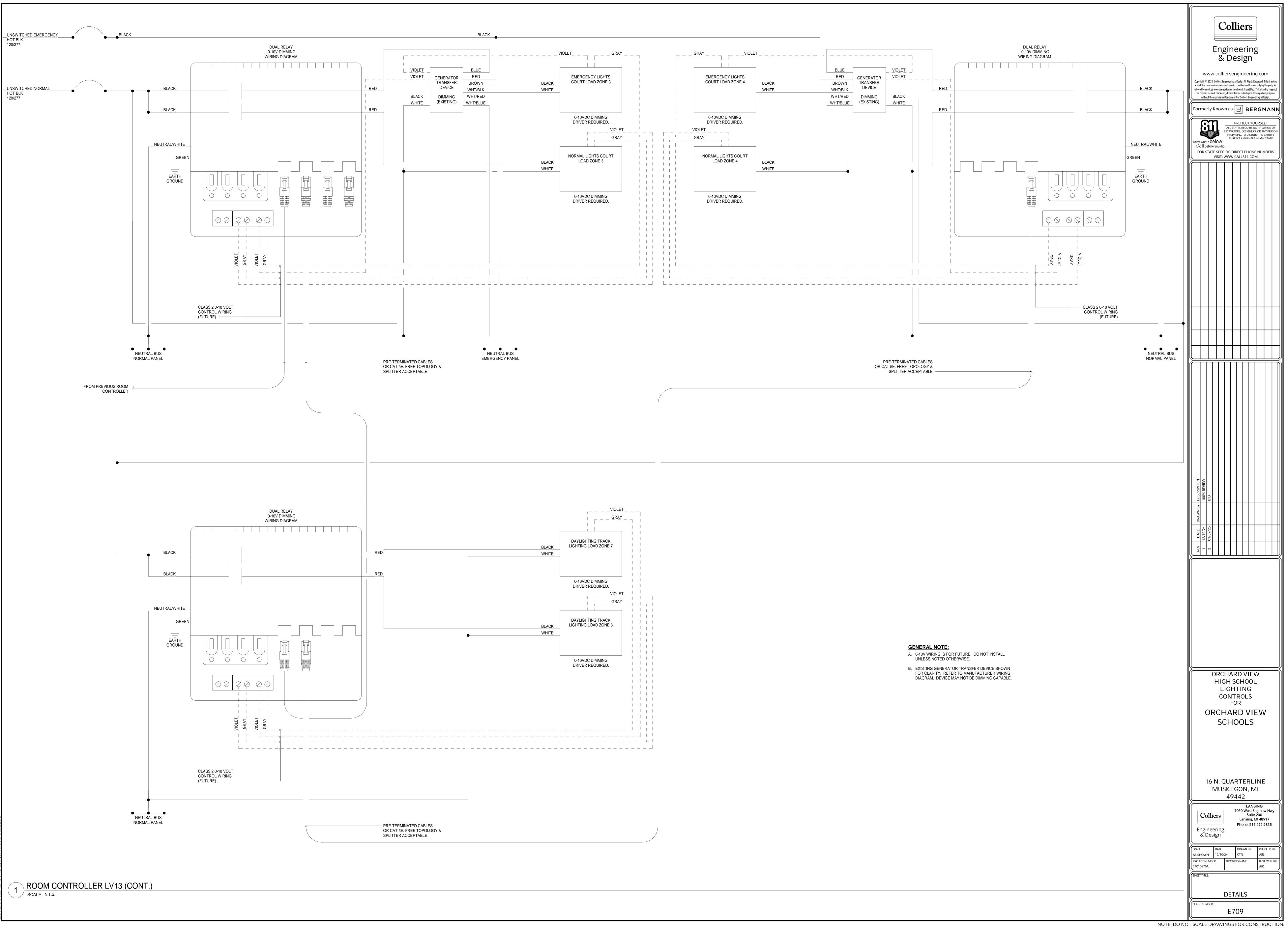


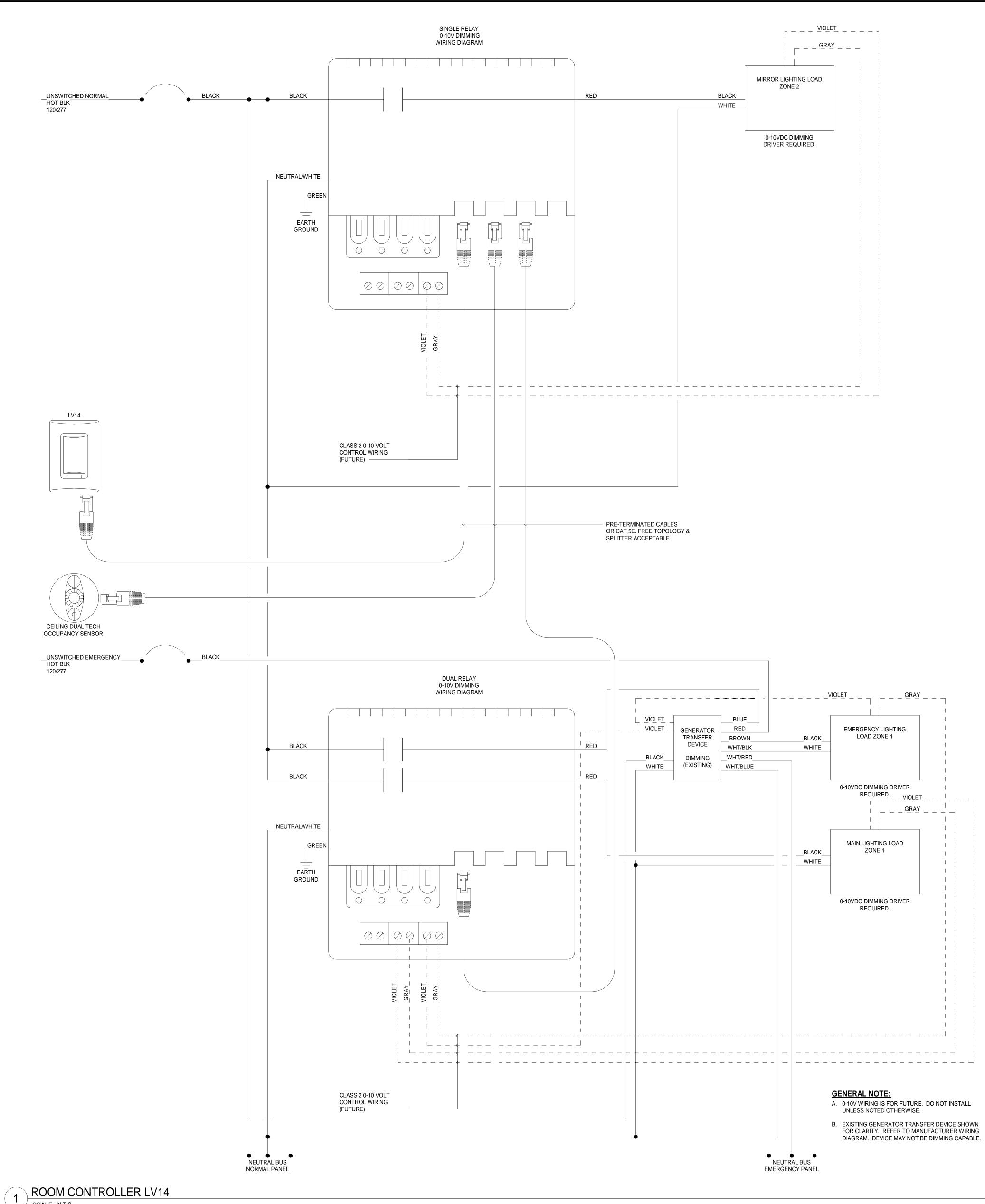




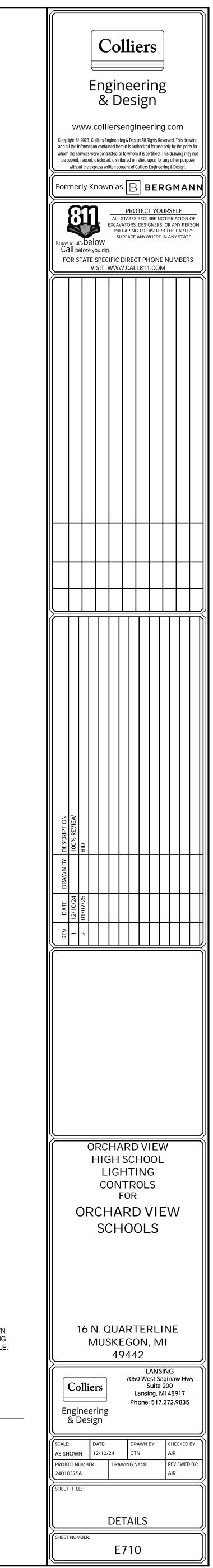




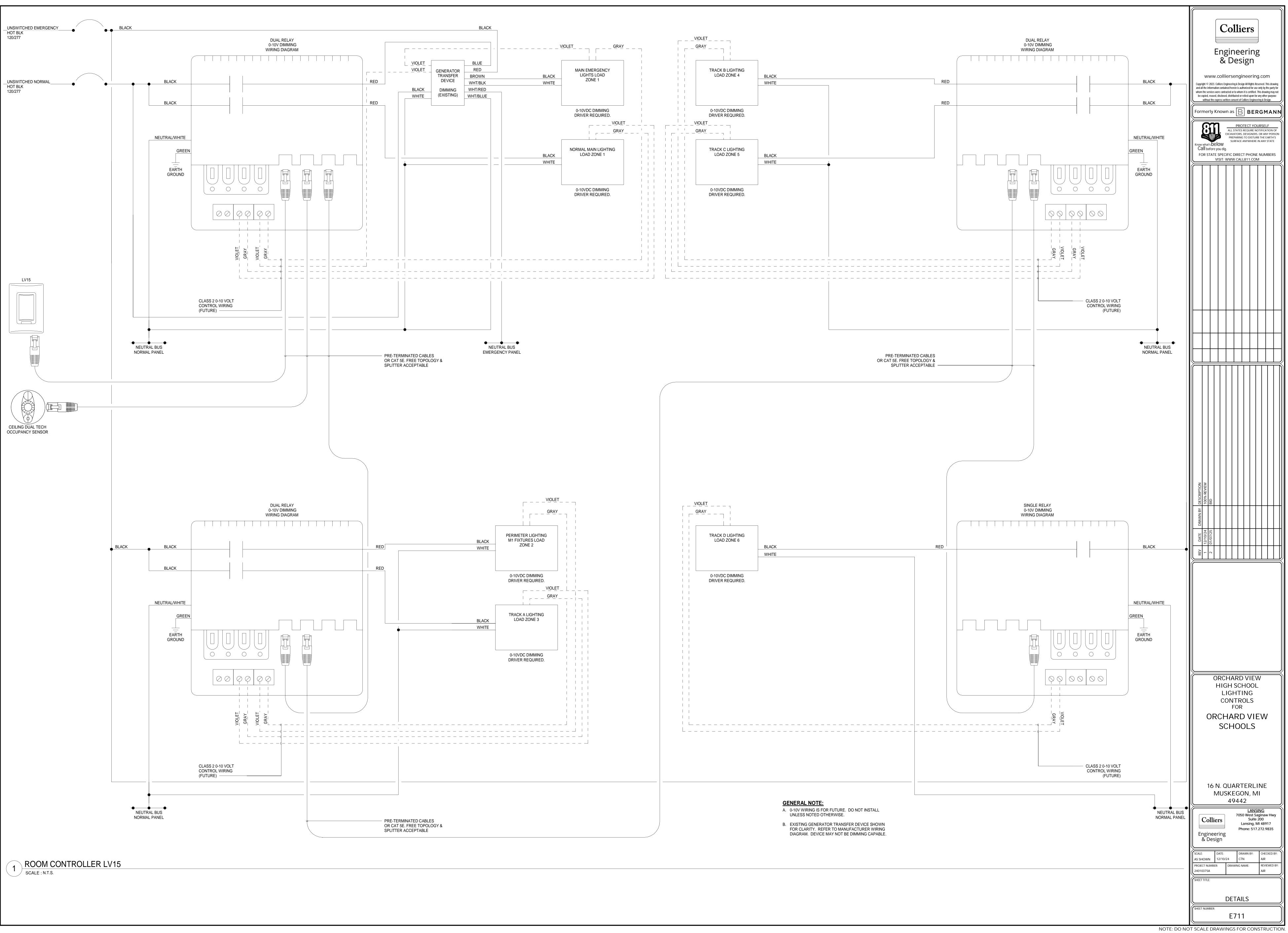


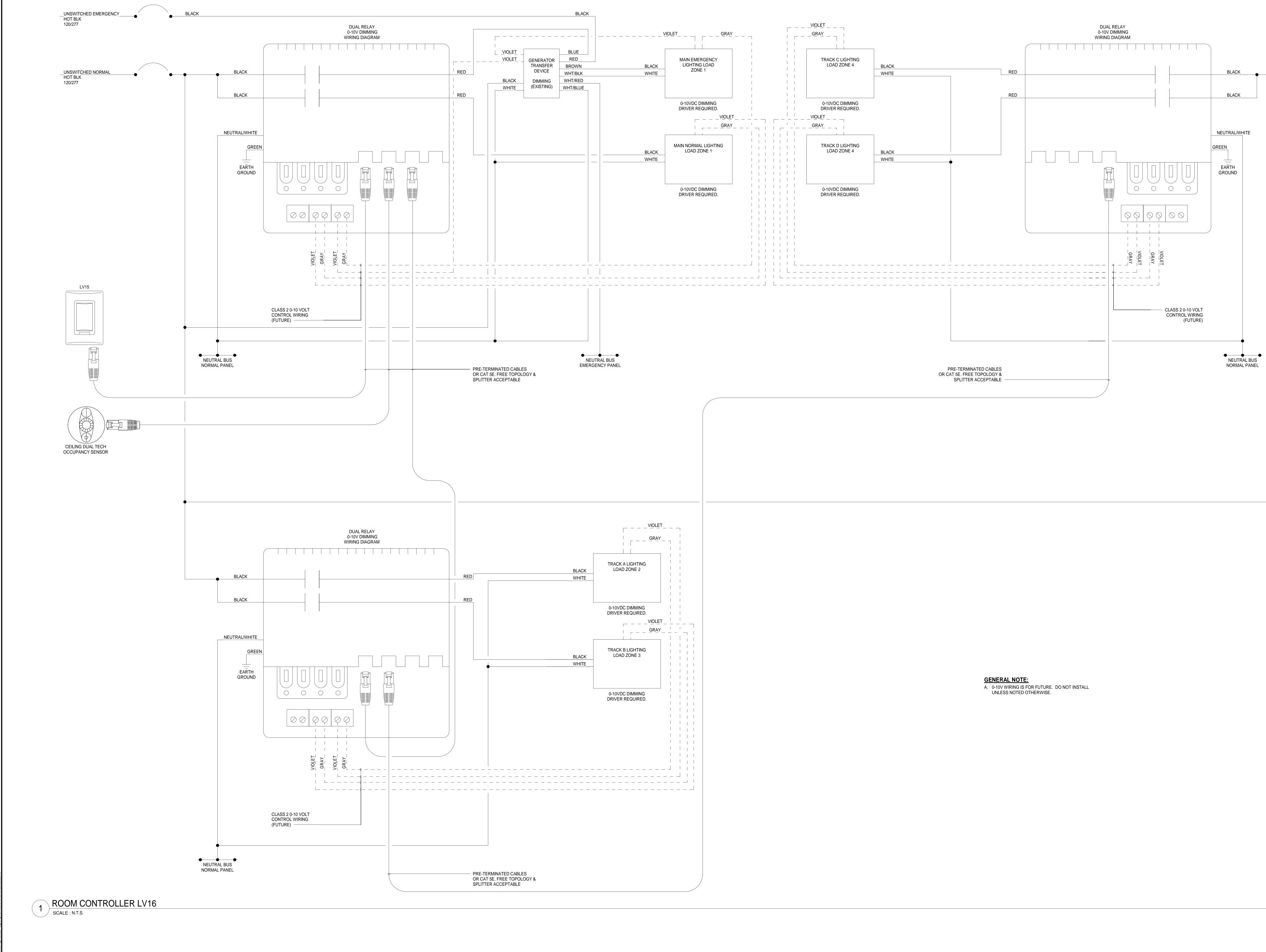


SCALE : N.T.S.



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| ORCHARD VIEW HIGH SCHOOL LIGHTING |
| CONTROLS FOR ORCHARD VIEW |
| SCHOOLS |
| |
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| DETAILS |
| E712 |

