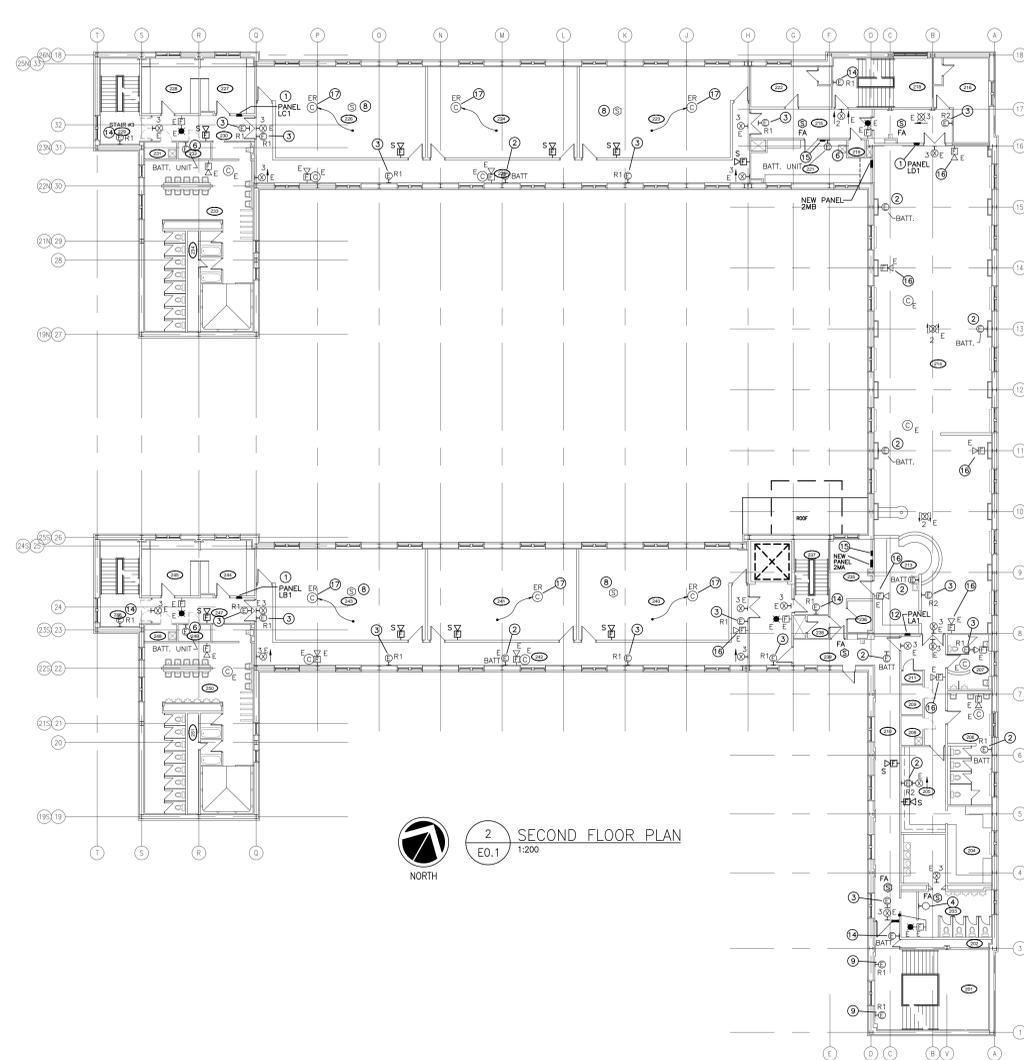
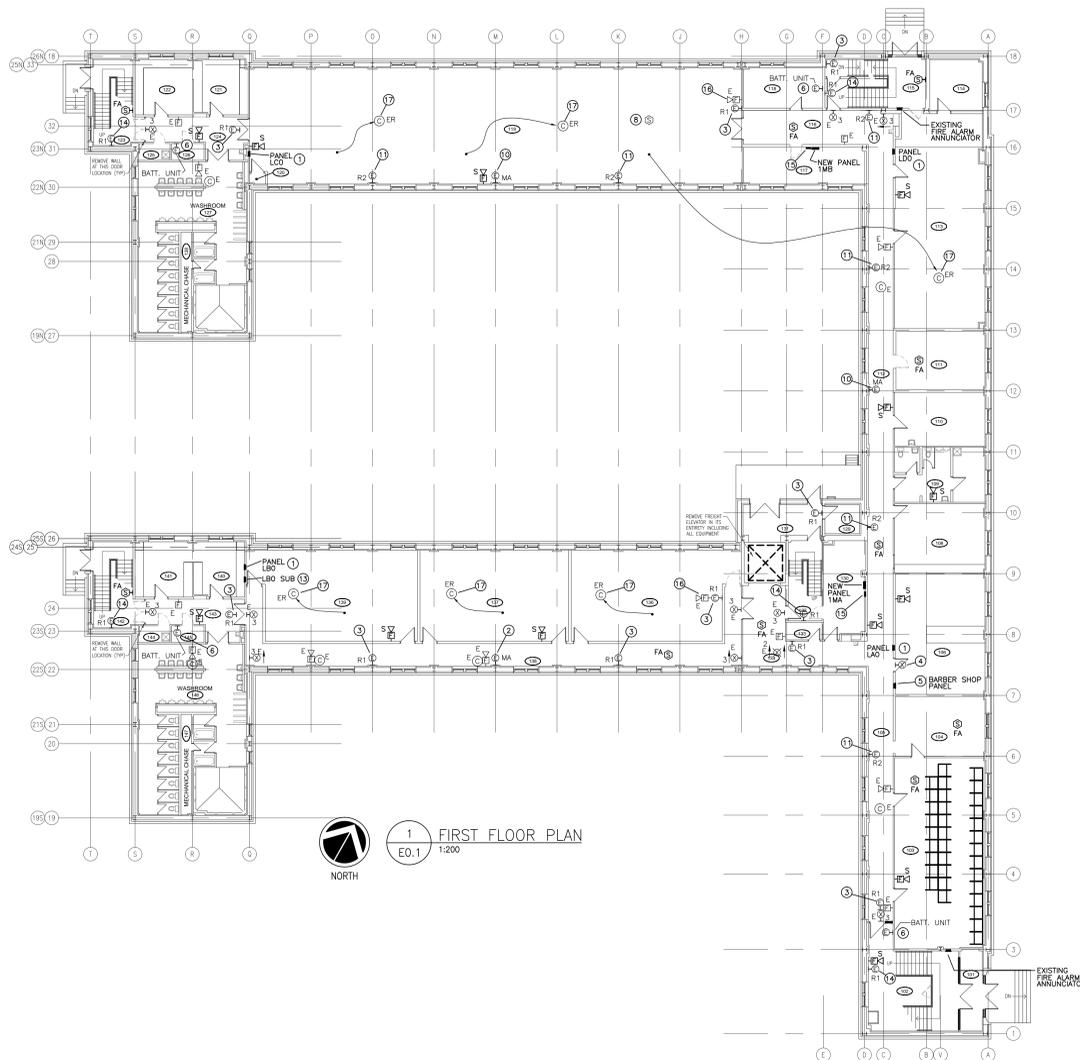




ASSOCIATION OF PROFESSIONAL ENGINEERS
 OF SASKATCHEWAN
 CERTIFICATE OF AUTHORIZATION
 RITENBURG & ASSOCIATES LTD.

NUMBER 52
 PERMISSION TO CONSULT HELD BY:
 DISCIPLINE SASK. REG. NO. SIGNATURE
 ELECTRICAL 11782



GENERAL NOTES FLOORS 1-2:

- DEMOLITION PLAN IS FOR ILLUSTRATIONAL PURPOSES ONLY. CONTRACTOR SHALL VISIT THE SITE DURING THE TENDERING PERIOD TO DETERMINE EXTENT OF DEMOLITION.
- ALL EMERGENCY LIGHTING SHALL BE CAREFULLY REMOVED AND TURNED OVER TO OWNER FOR SALVAGE. SEE DRAWING NOTES FOR NEW EMERGENCY LIGHTING LAYOUTS. RE-USE EXISTING EMERGENCY CIRCUITS WHERE POSSIBLE.
- THE CONTRACTOR SHALL COORDINATE THE SHUT DOWN FOR THE EXISTING PANEL REPLACEMENT WITH THE OWNER AND ARRANGE THE SHUT DOWN TO BE COMPLETED DURING UN-OCCUPIED TIMES.
- EXISTING EXIT SIGNS SHALL BE CONNECTED TO THE DC TERMINAL OF THE NEW EMERGENCY BATTERY PACK FOR THE AREA.
- NEW PANELS SHALL BE LABELED TO SUIT NEW BUILDING FLOOR MARKING CONVENTION. REFER TO PANEL SCHEMATICS.
- WHERE NEW DEVICES ARE PROVIDED ON WALLS OR CEILINGS THAT ARE NOT ACCESSIBLE THE CONTRACTOR SHALL PROVIDE SURFACE WIREMOLD RACEWAYS. RACEWAY SHALL BE PAINTED TO MATCH WALL FINISH. PROVIDE SHOP DRAWING FOR RACEWAY PRIOR TO ORDERING.
- REVISE THE EXISTING FIRE ALARM AUDIBLE SYSTEM SO THAT THE EXISTING AMPLIFIERS SERVING TWO FLOORS ARE REVISED TO SERVE ONE FLOOR FOR EACH AMPLIFIER. PROVIDE TWO NEW ADDITIONAL AMPLIFIERS ONE FOR EACH OF THE OTHER FLOORS FOR A TOTAL OF FOUR AMPLIFIERS. REWORK THE EXISTING WIRING AS REQUIRED. THE NEW AMPLIFIERS SHALL BE LOCATED IN A NEW FIRE ALARM CABINET LOCATED ADJACENT TO THE EXISTING MAIN FIRE ALARM CABINET. FINAL LOCATION OF THE NEW CABINET SHALL BE COORDINATED ON SITE.

DEMO DRAWING FLOORS 1-2:

- REMOVE AND DISPOSE OF THE EXISTING PANEL AND INTERCEPT ALL EXISTING BRANCH CIRCUITRY THAT IS NOT AFFECTED BY THIS RENOVATION AND PULL BACK TO A LOCATION ABOVE THE PANEL AND PROVIDE A NEW PULL BOX. EXTEND EXISTING BRANCH CIRCUITS THAT ARE TO REMAIN OPERATIONAL TO THE NEW ELECTRICAL PANEL AND RE-CONNECT TO NEW COMPLIMENT OF BREAKERS. MATCH THE EXISTING BRANCH CIRCUITRY BREAKER SIZES. PATCH / REPAIR WALL TO MATCH EXISTING WALL FINISH. DISCONNECT AND REMOVE THE EXISTING PANEL FEEDERS BACK AS FAR AS POSSIBLE TO THE NEAREST PULL BOX. REMOVE PANEL FEEDERS IN THE MAIN ELECTRICAL ROOM CDP AND TERMINATE IN A BLANK JUNCTION BOX. RUN NEW PANEL FEEDERS THROUGH THE ACCESSIBLE CEILING SPACE FROM THE NEW PANEL TO THE MAIN ELECTRICAL ROOM. REFER TO DRAWING NOTES FOR NEW PANEL LOCATIONS AND SINGLE LINE DRAWING DETAILS FOR FEEDER CABLE TYPE AND SIZE.
- REPLACE EXISTING BATTERY UNIT WITH NEW BATTERY PACK C/W REMOTE HEADS AS SPECIFIED. RECONNECT TO EXISTING EMERGENCY LIGHTING CIRCUIT.
- REMOVE EXISTING EMERGENCY LIGHTING REMOTE HEAD AND REPLACE WITH NEW SINGLE LAMP REMOTE HEAD FED FROM BATTERY UNIT.
- COMBINATION EXIT SIGN AND BATTERY UNIT TO BE REPLACED WITH NEW COMBO UNIT NEXUS COMPATIBLE. CONNECT TO EXISTING CIRCUIT. TURN EXISTING FIXTURE OVER TO THE OWNER FOR SALVAGE.
- EXISTING BARBER SHOP PANEL SHALL REMAIN. PROVIDE NEW FEEDER FROM NEW CORRIDOR PANEL AND NEW BREAKER. MATCH EXISTING SUB-PANEL BREAKER SIZE.
- REMOVE EXISTING EMERGENCY BATTERY PACK WITH REMOTE HEADS. CONNECT NEW REMOTE HEADS TO NEW BATTERY UNITS.
- PROVIDE NEW EXIT SIGN AND CONNECT TO EXISTING EXIT SIGN CIRCUIT. MOUNT UP AS SPECIFIED.
- EXISTING PUBLIC ADDRESS SPEAKER SHALL REMAIN.
- REMOVE EXISTING EMERGENCY LIGHTING REMOTE HEAD AND REPLACE WITH NEW SINGLE LAMP REMOTE HEAD FED FROM BATTERY UNIT. HEAD SHALL BE NEXUS COMPATIBLE.
- PROVIDE NEW EMERGENCY BATTERY PACK C/W TWO HEADS AS SPECIFIED.
- PROVIDE NEW DUAL HEAD REMOTE EMERGENCY LIGHT AS SPECIFIED.
- EXISTING PANEL SHALL REMAIN.
- EXISTING SUB PANEL SHALL REMAIN. RE-WIRE FEEDERS TO NEW PANEL. PROVIDE NEW BREAKER SIZED TO MATCH EXISTING.
- REMOVE EXISTING SINGLE EMERGENCY REMOTE FIXTURE AND REPLACE WITH NEW DUAL HEAD BATTERY UNIT AS SPECIFIED 'EM'.
- WALL MOUNTED NEXUS AREA CONTROLLER ROUTER HARD WIRED. VIA ETHERNET TO THE AREA CONTROLLER.
- REPLACE EXISTING FIRE ALARM DEVICE WITH NEW SPEAKER/STROBE DEVICE.
- RELOCATE EXISTING SPEAKERS AND EXTEND WIRING TO NEW LOCATION AND RE-CONNECT.

SYMBOL SCHEDULE

- BLANK OUTLET/JUNCTION BOX
- JUNCTION BOX/OUTLET BOX
- CEILING/WALL SURFACE MOUNT INCANDESCENT OR HIGH INTENSITY DISCHARGE FIXTURE
- RECESSED CEILING MOUNTED FIXTURE
- EXISTING FLUORESCENT FIXTURE, SURFACE MOUNTED OR SUSPENDED.
- EXISTING LIGHTS TO BE REMOVED AND ASSOCIATED WIRING BACK TO NEAREST JUNCTION BOX.
- EXISTING LIGHTS TO REMAIN. 'TDP' IS FIXTURE WITH PARABOLIC LENS.
- FIXTURE SHOWN THIS IS NON-SWITCHED NIGHT LIGHT FED FROM NORMAL POWER PANEL.
- ELECTRICAL DISTRIBUTION PANEL, SURFACE/RECESSED.
- MOTOR CONNECTION. COORDINATE FINAL LOCATION ON SITE. 'STP' DESIGNATES MOTOR THERMAL SWITCH MOUNTED AT UNIT.
- MOTOR DISCONNECT SWITCH. SUFFIX 'WP' INDICATES WEATHER PROOF.
- S.P.S.T. SWITCH MOUNTED UP 1200mm.
- THREE WAY SWITCH MOUNTED UP 1200mm.
- ELECTRONIC FLUORESCENT DIMMER SWITCH (DFR series) MOUNTED UP 1200mm.
- ELECTRONIC FLUORESCENT DIMMER SWITCH (DFR600M) MOUNTED UP 1200mm.
- EXISTING WALL MOUNTED OCCUPANCY SENSOR SWITCH.
- EXISTING S.P.S.T. AREA LIGHTING MASTER SWITCH.
- NEW WALL MOUNTED OCCUPANCY SENSOR SWITCH MOUNTED UP 1200mm.
- WALL MOUNTED DIMMER SWITCH MOUNTED UP 1200mm.
- 3-POSITION CELL LIGHT SWITCH MOUNTED UP 1200mm.
- S.P.S.T. SWITCH C/W PILOT LIGHT MOUNTED UP 1200mm. LIGHT SHALL BE ILLUMINATED WHEN SWITCH IS 'ON'.
- WALL MOUNTED LOW VOLTAGE SWITCH MOUNTED UP 1200mm. CONNECT TO LIGHTING CONTROL PANEL FOR ROOM CONTROL.
- SPEED CONTROL SWITCH.
- DUPLEX GROUNDED RECEPTACLE OUTLETS WITH NO SUFFIX SHALL BE MOUNTED UP 450mm. WHERE SUFFIX, MOUNT AS FOLLOWS: 'C' - 250mm ABOVE COUNTER; 'S' - UP 900mm; 'Y' PRONG RECEPTACLE UP 1200mm; 'M' - MICROWAVE RECEPTACLE UP 250mm ABOVE MICROWAVE SHELF. COORDINATE WITH ARCHITECTURE MILLWORK FOR EXACT LOCATION.
- PROVIDE BLANK OUTLET FOR FUTURE AUDIO/VISUAL EQUIPMENT MOUNTED UP 450MM. PROVIDE SINGLE GANG 100MM BOX WITH 21MM CONDUIT TO CEILING SPACE.
- DUPLEX GROUNDED RECEPTACLE AND DATA OUTLET MOUNTED WITHIN CEILING SPACE ABOVE CEILING MOUNTED PROJECTOR.
- DRIVER RECEPTACLE, 30 AMP, 125/250 VOLT, 4 WIRE GROUNDED RECEPTACLE, C/W COVERPLATE. MOUNT UP 900 MM. CORO SET SUPPLIED WITH DRIVER.
- DUPLEX RECEPTACLE MOUNTED UP 900 MM FOR WASHER.
- TWO DUPLEX GROUNDED RECEPTABLES MOUNTED IN A COMMON BOX. MOUNTED UP 450mm UNLESS NOTED OTHERWISE.
- DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE MOUNTED UP 1200 MM.
- DUPLEX GROUNDED T-SLOT, 20 AMP 'HOUSE KEEPING' RECEPTACLE MOUNTED UP 450 MM.
- DUPLEX GROUNDED RECEPTACLE MOUNTED UP 450 MM FED FROM UNINTERRUPTIBLE POWER SUPPLY (UPS). BODY OF RECEPTACLE SHALL BE IMPREGNATED COLOUR, RED.
- UPS
- NEW DATA / VOICE OUTLET MOUNTED UP 450 mm, 100 mm, SQUARE BOX C/W SINGLE GANG EXTENSION AND 20 mm CONDUIT. SUFFIX '1D' INDICATES ONE DATA JACK, '1D/V' INDICATES ONE DATA JACK AND ONE VOICE JACK ON SAME FACE PLATE. CABLE SHALL BE TERMINATED AT THE NEW MS DATA PATCH PANEL AND OUTLET BOX. PROVIDE NO LESS THAN 300 mm SLACK IN OUTLET BOX. VOICE OUTLET AND CABLE SHALL SHARE SAME BOX AND CONDUIT. SUFFIX 'V' INDICATES ONE VOICE JACK. CABLE TYPE SHALL MATCH EXISTING AND SHALL BE TERMINATED AT THE OUTLET BOX AND NEW MS VOICE PATCH. PROVIDE NO LESS THAN 300 mm SLACK IN OUTLET BOX. DATA JACKS SHALL BE BLUE AND VOICE JACKS SHALL BE WHITE. SUFFIX 'ESS' INDICATES ONE ESS NETWORK DROP. CABLE SHALL BE TERMINATED AT THE NEW ESS DATA PATCH PANEL AND OUTLET BOX.

- FIRE ALARM MANUAL PULLSTATION MOUNTED UP 1350mm A.F.F.
- EXISTING FIRE ALARM INDICATOR LIGHT TO REMAIN.
- FIRE ALARM SIGNAL DEVICE (SPEAKER/STROBE) MOUNTED UP 2290mm A.F.F. SUFFIX 'S'. INTERFACE WITH CODE SPEAR SYSTEM.
- FIRE ALARM SPEAKER WALL MOUNTED UP 2290mm A.F.F. SUFFIX 'FA'. INTERFACE WITH CODE SPEAR SYSTEM.
- FIRE ALARM SPEAKER CEILING MOUNTED. SUFFIX 'FA'. INTERFACE WITH CODE SPEAR SYSTEM.
- CEILING MOUNTED SMOKE DETECTOR.
- DUCT DETECTOR MOUNTED IN SUPPLY SIDE OF DUCTWORK.
- FIRE ALARM HEAT DETECTOR. COMBINATION 135 DEGREES FIXED TEMP/RATE OF RISE FIXED CAMERA LOCATION.
- PAN/TILT/ZOOM CAMERA LOCATION.
- CALL CANCELLATION DEVICE MOUNTED UP 1200mm.
- CALL ORIGINATING DEVICE MOUNTED UP 1200mm.
- CEILING MOUNTED SPEAKER. SUFFIX INDICATES SPEAKER TYPE. REFER TO SPECIFICATIONS.
- WALL MOUNTED SPEAKER. SUFFIX INDICATES SPEAKER TYPE. REFER TO SPECIFICATIONS.
- CEILING OR WALL MOUNTED CODE SPEAR SPEAKER SUFFIX 'E' IS EXISTING TO REMAIN AND 'ER' IS RELOCATED AND RE-CONNECTED TO EXISTING SPEAKER ZONE. EXTEND WIRING AS REQUIRED. SUFFIX 'N' INDICATES NEW CEILING MOUNTED SPEAKER TO MATCH EXISTING. CONNECT TO NEAREST SPEAKER ZONE.
- CEILING MOUNTED MICROPHONE. REFER TO SPECIFICATIONS FOR DEVICE DETAILS.
- MONITOR LOCATION FOR CCTV SYSTEM VIEWING. REFER TO SPECIFICATIONS SECTION 28 23 00 FOR FURTHER INFORMATION.
- GUARD TROU SYSTEM DEVICE MOUNTED UP 1200mm.
- CELL CALL DISPLAY UNIT. REFER TO SPECIFICATIONS SECTION 27 52 00 FOR FURTHER INFORMATION.
- INTERCOM DEVICE MOUNTED UP 1200mm. SUFFIX 'M' OR 'S' SPECIFIES MASTER OR SLAVE STATION. REFER TO SPECIFICATIONS SECTION 27 52 00 FOR FURTHER INFORMATION.
- MONITOR LOCATION FOR IMV SYSTEM VIEWING. REFER TO SPECIFICATIONS SECTION 28 13 20 FOR FURTHER INFORMATION.
- KVM EXTENDER TRANSMITTER LOCATION. REFER TO SPECIFICATIONS SECTION 27 11 19 FOR FURTHER INFORMATION.
- EMERGENCY DOOR OPEN PUSHBUTTON. 40MM DIA. RED MUSHROOM HEAD WITH WHITE 'EMERGENCY OPEN' ENGRAVED. MOUNT UP 1500MM A.F.F. TELEMECANIQUE OR APPROVED EQUAL.
- PROVIDE NEW POKE THROUGH, FLUSH MOUNTED, 4 GANG, STEEL SQUARE FLOOR BOX C/W SMOOTH METALLIC COVER FOR VINYL FLOORING, GROUNDED DUPLEX 15A-120V RECEPTABLES (SUFFIX 'P'). SECURITY NETWORK CABLE OUTLETS (SUFFIX 'ESS'). COMMUNICATION CABLE OUTLETS (SUFFIX 'D') AND VOICE CABLE OUTLETS (SUFFIX 'V') (SEE DRAWINGS FOR QUANTITIES). ENSURE POWER AND COMMUNICATION/OCTV CABLES ARE IN SEPARATE CHAMBERS THROUGHOUT. COMMUNICATION/OCTV CABLES SHALL BE MOUNTED ON FACE PLATES. PROVIDE FACE PLATES AS REQUIRED. REFER TO POWER PLANS FOR SPECIFIED FLOOR BOXES WHERE REQUIRED. SHALL BE LEGRAB RAT EVOLUTION OR APPROVED EQUAL.
- DOOR CONTACT ROUGH-IN FOR SECURITY SYSTEM. PROVIDE 21MM CONDUIT FROM 300MM ABOVE FINISHED CEILING SPACE STUBBED INTO DOOR FRAME. COORDINATE WITH DOOR FRAME SUPPLIER.
- PUSH PAD FOR HANDICAP ASSIST DOOR OPENING MOTOR MTD UP 900MM. CONTRACTOR SHALL PROVIDE ROUGH-IN AND WIRING FROM DOOR ACCESS CONTROL BOX AND DOOR MOTOR. CONFIRM REQUIREMENTS WITH MOTOR SUPPLIER. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
- CARD READER ENTRY ROUGH-IN FOR EXISTING SECURITY SYSTEM. MOUNT SINGLE GANG BOX 1200MM A.F.F. & STUB 21MM CONDUIT 300MM ABOVE CEILING.
- ELECTRIC STRIKE CONDUIT ROUGH-IN FOR EXISTING SECURITY SYSTEM. STUB 21MM CONDUIT FROM ELECTRIC STRIKE TO CEILING SPACE. COORDINATE WITH ARCHITECTURAL PRIOR TO INSTALL.
- LOW VOLTAGE LIGHTING ZONE CONTROLLED THROUGH LOW VOLTAGE CONTROL PANEL.

INDICATES THAT AN EXISTING DEVICE IS TO BE RELOCATED.
 DENOTES DEVICE TO BE REMOVED AND ASSOCIATED WIRING REMOVED AS NOTED ON PLANS.

DRAWING LIST

- E0.1 FIRST AND SECOND FLOOR DEMOLITION PLAN
- E0.2 THIRD AND FOURTH FLOOR DEMOLITION PLAN
- E1.1 ELECTRICAL SITE PLAN
- E2.1 THIRD FLOOR LIGHTING PLAN
- E2.2 FOURTH FLOOR LIGHTING PLAN
- E3.1 FIRST FLOOR, SECOND FLOOR, BASEMENT, AND PENTHOUSE POWER/SYSTEMS PLAN
- E3.2 THIRD FLOOR POWER/SYSTEMS PLAN
- E3.3 FOURTH FLOOR POWER/SYSTEMS PLAN
- E3.4 THIRD FLOOR ACCESS CONTROL/FIRE ALARM PLAN
- E3.5 FOURTH FLOOR ACCESS CONTROL/FIRE ALARM PLAN
- E4.1 SINGLE LINE DRAWING & MECHANICAL MOTOR SCHEDULE
- E4.2 FIRST AND SECOND FLOOR PANEL SCHEMATICS
- E4.3 THIRD AND FOURTH FLOOR PANEL SCHEMATICS
- E5.1 ESS NETWORK AND CCTV DETAILS
- E5.2 LIGHTING CONTROL, POWER/SYSTEMS DETAILS
- E5.3 DATA/VOICE AND IMS NETWORK DETAILS
- E5.4 AUDIO RECORDING AND PUBLIC ADDRESS DETAILS

