## **ELECTRICAL NOTES**

#### A. General Requirements

- 1. Work shall be in accordance with NFPA 70 (the National Electrical Code)--either the latest version or the version adopted by the local jurisdiction--and all local codes.
- 2. Secure all permits, inspections, and approvals as required. 3. Furnish and install all materials and labor required to provide complete and
- operational systems as indicated on the drawings. 4. General work practices for electrical construction shall be in accordance with NECA 1, Good Workmanship in Electrical Construction, published by
- the National Electrical Contractors Association. 5. All material and equipment shall be listed and labelled for the application by Underwriters Laboratories or other NRTL, and installed according to its listing.
- 6. The Electrical Contractor shall cut and patch as required for the installation of electrical devices and equipment.
- 7. Submit shop drawings to the Architect/Engineer for all materials and
- 8. Provide protection and storage for equipment and materials during
- construction. All material and equipment shall be turned over in a new. clean condition
- 9. Provide circuits and final connection to mechanical equipment and equipment supplied by others.
- 10. Coordinate work with other trades. Where electrical devices are depicted on Architectural drawings, install as depicted.
- 11. Maintain as-built plans during construction. Turn over to Architect/Engineer at completion of construction. Provide electronic version and at least two paper copies, more if required elsewhere.
- 12. Provide operating and maintenance manuals for all equipment. Provide electronic version and at least two paper copies, more if required elsewhere. 13. Provide at least 12-month warranty on all materials, equipment, and
- workmanship from date of substantial completion.
- B. Demolition and Connections to Existing Equipment 1. Owner reserves the right to claim any salvageable materials and equipment. Prior to beginning demolition work, identify items Owner chooses to claim. Remove and store claimed items. Remove and dispose of all unclaimed materials and equipment.
- 2. Maintain devices and equipment not shown to be demolished, and circuits feeding them.
- 3. Where new equipment replaces existing, extend wiring to the new equipment. Provide additional supports, grounding and fittings as required
- to comply with NEC. 4. Where existing equipment is relocated, extend wiring to the new location. Provide additional supports, grounding and fittings as required to comply with NEC.
- 5. When reusing raceways or junction boxes, provide additional grounding and support to comply with NEC. Do not reuse cables. Where reusing conduits and boxes creates conflicts with new work, relocate conduits and junction boxes to make way for new work.
- 6. Disconnect and remove devices and equipment shown to be demolished. Provide blank plate to cover any boxes which remain. 7. Where wire or cable is subsequently no longer used, remove it back to its
- source. 8. Where conduit is subsequently empty and accessible, remove it back to its source. Where abandoned conduit drops underground, under slab, or in
- other inaccessible location, undercut below surface and patch. 9. Once a device has been removed, patch and paint to match existing surfaces. 10. Where existing devices and equipment are shown in existing walls to be provided with new finishes or new surfaces, relocate existing devices and
- equipment to sit flush with the new surface or provide extensions to allow the device or equipment to sit flush with the new finish or new surface. 11. Where raised floors are demolished, remove devices and wiring in the raised floor back to source. Re route existing wiring to remain from floor plenum
- to ceiling or wall space. 12. Where ceilings are replaced provide temporary means of securing existing devices in the ceiling space until new ceiling is installed. Once new ceiling is installed place existing devices in new ceiling, extend cables as required to install existing devices in new ceiling; refer to architectural drawing to
- see where ceiling will be removed and replaced. All devices to remain shall be temporarily hung in a means that allows complete function of device. 13. Where ceilings are replaced, secure existing cables and conduits lying on the ceiling from building structure above.
- 14. Where adding to circuits with existing loads, measure the full load with an ammeter before and after the additions are made to confirm code compliance. Maintain record of loads on as-built plans.
- 15. Where demolition or new work will affect electrical phase rotation of existing equipment, measure existing electrical phase rotation. New work shall match existing electrical phase rotation.
- C. Basic Materials and Methods
- 1. Wire shall be copper THHW, THWN or XHHW. Ampacity shall be based on 75C ratings. 2. Minimum wire size shall be 12AWG. For emergency and outdoor circuits, minimum wire size shall be 10AWG. For branch circuits longer than 75'
- one-way circuit distance, minimum wire size shall be 10AWG. 3. Where oversized conductors are indicated or otherwise required for voltage drop or derating, provide junction boxes and other means required to
- transition back to standard conductor sizes for connection to standard lugs at equipment. 4. Minimum conduit size shall be 3/4".
- 5. Where branch circuit wiring is spliced, use wirenuts, PVC coated mechanical lug terminals or other Engineer approved means that allows
- access to cable ends. Do not use spring tension splices to connect wiring. 6. Use wire in conduit except in accessible indoor ceiling spaces, attics and in hollow gypsum-board partitions, where MC cable may be used as permitted below, unless prohibited by code:
- a. MC cable shall not extend beyond a conduit, box, device, luminaire or enclosure more than 10' and shall not extend beyond a single room, pass through a floor slab, feed through a wall to another space, feed through more than one ceiling space or cavity or be used as homeruns. Exception, wiring between corridor or classroom luminaires can be extended up to 15', where cable is secured to building structure above at multiple locations between each luminaire.
- b. Use MC cable connectors with anti-short bushing, threaded lock nuts to box and screw down cable grips. MC cable shall have mechanical or threaded type support means to building structure.
- c. MC cable shall be supported in the ceiling space with independent trapeze supports or conduit clamps spaced at intervals not greater than 4' apart, grouped less than 6 cables together and support allows for 50% future cable growth. Cables shall be secured within 6" of a connection to a junction box or device and within 3' of a luminaire. Support system shall be secured to building structure and not to other equipment, ceiling support system or device support systems.
- d. Where MC cable is used in spaces with 0-10V dimming, provide UL listed cable with integral power and 0-10V control wiring or separate cables for power and dimming.
- e. Where MC cables are bundled, stacked or grouped together, the combined current carrying conductors (including neutrals) in the group of cables shall not exceed 18 conductors, and each cable shall be rated for 20A or less. Where cables exceed the parameters above, replace cables with conductors in conduits, provide derating of conductors as required to comply with NEC.
- 7. Provide flexible connections for final connection to motors or other vibrating equipment.
- 8. Provide plastic bushings wherever conductors would otherwise be exposed to threaded metal fittings.
- 9. Conduit types:
- a. Outdoor, exposed: Threaded RMC
- b. Outdoor, flexible final connections to vibrating equipment: LFMC. c. Indoor, subject to physical damage: Threaded RMC, painted as directed. d. Indoor, dry, not subject to physical damage: EMT, painted as directed.
- e. Indoor, dry, flexible final connections to vibrating equipment: FMC. 10. Coordinate conduit installation with other trades. Where conduit is in the
- vicinity of equipment, coordinate conduit locations to ensure access and clearances about equipment are maintained. 20. In finished spaces, all wiring shall be concealed under floors, in walls, or
- above ceilings, unless drawings indicate otherwise, or Architect approves surface mounted devices and raceways. 21. Where new devices are located in existing walls such as, but not limited to,
- block, drywall, and plaster, channel or fish, cut, patch and paint wall to match existing surface. 22. Exposed conduits in shops or other similar spaces shall be vertical from
- ceiling space to device back box below. Avoid routing conduit horizontally below the ceiling, unless approved by Architect and Engineer.Exposed raceways and boxes not in finished spaces shall be custom painted to match adjacent surfaces and surface colors. Where surfaces have more than one color, provide color scheme to match existing. 23. Except where code requires otherwise, use steel boxes of the proper type,
- not less than 4" square. Secure firmly, true, square, and, where mounted in a finished wall, flush with the finished surface. Where outdoors, provide cast metal boxes custom painted to match adjacent surface.
- 24. Where drawings note or show surface mount devices in finished or unfinished spaces, junction boxes or device back boxes that are exposed, in finished spaces and below 7' shall be cast metal box custom painted to match adjacent surface.
- 25. Low-voltage cable may be installed open in accessible indoor ceiling spaces,

attics and in hollow gypsum-board partitions; otherwise, provide raceway. Support low-voltage at maximum 48" intervals with J-hooks or other devices listed for low-voltage cable support. 26. Support cables, conduits, and junction boxes rigidly and securely with heavy

- duty clamps and anchors listed for the application and installed according to their listing.
- 27. The use of spring tension cable or conduit support clips is not acceptable. Connectors to be threaded type with locking washer.
- 28. Identify each wire and device on the project with a circuit number. Use wrap-around tape at the ends of wires.
- 29. Seal all wall and floor penetrations. For fire-rated walls or floors, provide listed penetration sealant or other assembly to maintain rating.
- 30. For 208Y/120V systems, use black (phase A), red (phase B) and blue (phase C) color coding. 31. For 480Y/277V systems, use brown (phase A), orange (phase B) and yellow

#### (phase C) color coding. D. Grounding and Bonding

- 1. Provide grounding and bonding as below, in addition to requirements of
- 2. Provide insulated copper equipment grounding conductors in all circuits. 3. Where ground bars are indicated, provide Erico or equal copper bar, minimum 1/4" thick x 4" wide x 12" long with manufacturer's mounting kit including insulating bracket.

#### E. Surface Raceway

- 1. Use Wiremold 5400-series or equal, ivory/white, large, non-metallic, two-channel system. New raceway shall match existing Wiremold used elsewhere. Use 5400-series unless noted otherwise on the drawings. Use Wiremold 5500 Non-metallic Wiremold 3 channel with single cover where extra-large raceway, ivory/white, as indicated on the drawings. Use
- data bracket CM-EPLA with keystone inserts. 3. Provide all fittings for a complete installation where shown on the drawings. Provide corners, end caps, rises/drops, etc., as required.
- 4. Provide recessed conduit drops and recessed boxes for feeds in wall behind raceway. Provide 0.75" conduit for power channel and 1.25" conduit for
- low-voltage channel. Provide at least one set of drops for each 20' of raceway.
- 5. Provide brackets for in-line device mounting. 6. Coordinate mounting height of raceway with millwork and furniture, and obtain Owner approval for height selected before rough-in and installation.
- Where drawing indicate to extend existing raceways, provide matching raceway manufactured by the same company, matching device coverplates and matching layout.

#### F. Wiring Devices

- Standard switches shall be ivory or as directed, extra heavy-duty spec grade, 277V, 20A, manufactured by Leviton, Hubbell or Pass & Seymour. Where keyed switches are shown provide barrel key locking type. Where pilot-lighted switches and other types are noted, provide those types of the same quality by the same manufacturer.
- 2. Standard receptacles shall be ivory or as directed, extra heavy-duty spec grade, 120V, 15/20A, grounding type, manufactured by Leviton, Hubbell or Pass & Seymour. Where other receptacle types are noted, provide those types of the same quality by the same manufacturer.
- Standard USB receptacle shall comply with the requirements of the standard receptacle and provide a single USB A and USB C charging port capable of 5A at 5VDC
- Standard GFCI receptacles shall be UL 943, 10kA maximum interrupting capacity, extra heavy duty, self-testing, weather resistant complying with requirements above.
- 5. Where receptacles are located in damp or wet locations, provide weather resistant devices. 6. Provide cast metal weatherproof (WP) boxes and other housings as noted.
- Outdoor receptacles not protected from the weather shall be provided with hinged metal WP "in-use" covers, where WP rating is maintained with equipment plug is inserted into the receptacle.
- Indoor receptacles in wet locations and outdoors under roofed openings, canopies, or marquees, not subject to beating rain or water run-off, shall be cast metal WP type when receptacle is covered (attached plug cap not inserted and receptacle cover closed). Provide brushed satin stainless-steel wall plates for devices in indoor
- finished spaces, galvanized steel wall plates for devices indoor unfinished spaces and cast iron or aluminum covers outdoors. Use one-piece wall plates for all groups of devices. Plates shall be square and true, with the edges of the plate in continuous contact with the wall. 10. Identify each device on the project with a circuit number. Use self-adhesive
- labels on the faceplate of each switch or receptacle. 11. The color of wiring devices and type and color of device plates shall be indicated on submittals, and shall be coordinated with the Architect prior to installation

#### Distribution Equipment

- 1. Distribution equipment shall be manufactured by Cutler-Hammer, General Electric, Siemens, or Square D, see alternate.
- 2. Circuit breaker and other lugs shall be rated 75C. 3. When adding circuit breakers to existing panels, provide new units listed for
- use in the panel, matching the existing ones in the panel.
- 4. Safety switches shall be heavy-duty. 5. Enclosures shall be suitable for installed location.
- 6. Provide new typewritten panel directories for all panels where work is done
- including existing panels. Incorporate Owner's final room designations for all circuits. Obtain approval before installing. Provide handle locks on breakers which serve emergency lighting circuits, exit signs, fire alarm equipment, security equipment, lighting control panels & lighting control devices, camera equipment, generator controls, PA
- system, and card access equipment. Identify panelboards, safety switches, and motor starters with engraved plastic laminate labels, showing panel designation, system voltage, and
- source location. Provide emergency stop buttons at locations shown on the drawing. Emergency stop buttons to consist of a red cast aluminum 60 MM mushroom button, IP 65, emergency stop legend plate, contact block and mounting collar. Emergency stop button to mount in a cast metal junction box, stainless steel coverplate. Emergency stop buttons to have a 3mm or 4mm aluminum red button with the word "Emergency" inscribed in the button or on a circular legend on the coverplate at the base of the button. Use of emergency stop button shall open contactor. 10. New emergency stop buttons shall be match the look and function of
- existing emergency stop buttons in the space and be. H. Distributed Lighting Controls
- Provide Lutron Vive wireless lighting controls to match components used elsewhere in the building. Network spaces and provide remote access. 2. Where shown on the drawings provide: dimming controls, switching control, UL924 emergency lighting, daylight sensors, wireless switches, wireless switches with dimming controls, occupancy sensors, hubs, panels and support hardware and wiring required to provide devices shown in the lighting plans, details, and schedules.
- On the lighting plans in each space provide 0-10V dimming power pack for each lighting zone indicated. For each zone connect lighting circuit and dimming controls through the power pack associated with the lighting zone to luminaires that are included in the lighting zone.
- 6. Use 16A 0-10V Pow Packs for normal lighting controls and equivalent 0-10V dimming for emergency lighting. Locate power packs 12" above ceiling at the main entrance. Where emergency lighting is shown, use UL924 power packs controlled from local hub. Circuit hub from local non-emergency lighting circuit which feeds normal lighting in that space. Loss of normal lighting in a space shall automatically turn on emergency
- 7. Classrooms, theory rooms and similar spaces shall have a minimum of 2 lighting zones, front and back, switched independently, and control of both zones from locations shown on the drawings.
- 8. Offices and similar spaces shall have lighting zones as indicated on the drawings, and control of both zones from locations shown on the drawings. 9. Use battery operated wireless PICO switches as follows:
- a. Two button on/off switches in classrooms, under cabinet lighting, storage rooms, toilet rooms, corridors, passages, locker rooms and similar spaces as shown on the lighting plans. Provide high trim of 90% lumen output. b. Three button on/off/preset with raise/lower buttons in offices, conference rooms, isolation exam room, heath suite, and similar spaces as shown on the lighting plan. The preset shall be set for 70% lumen output of lighting zone.
- 10. Use Radio Powr Savr wireless occupancy and or vacancy sensor: a. Ceiling mounted battery operated, 360-degree located in the center or the ceiling. Supply recessed mounting ring kit for each sensor. Sensor shall
- be capable or sensing 20'x20' (400sqft) at 9' above the floor. b. Occupancy sensors and wall mounted or ceiling corner mounted shall be 180-degree, capable of major motion for 3000 sqft and minor motion of 1500 sqft. Provide wall and ceiling mounting hardware to allow wall
- mounted type sensors to be directional. Provide Lutron lighting Hubs where shown on the drawings. a. Hubs shall be networked and provided with building management system
- and wireless access interface to allow for remote secured access, programming and time clocks functions from computer or smart device. b. Connect hub to local normal non-switched lighting circuit. c. Provide one data jack at each hub.

provided. lighting shall be controlled by occupancy sensor switch. 12. Comply with manufacturer's wiring requirements. Use plenum rated wiring support installation. Do not create links in the field.

nunchlist

wire in parallel.

J. Lighting

proposed.

system

luminaires to the grid.

K. Emergency Lighting

antenna.

terminations.

and the number of jacks.

Teledata Wiring System.

drawings.

device at VAV, control power from local lighting or VAV circuit. 14. Switches shall be white or as directed with coverplate material and color to match wiring devices or as directed. . Submittal shall include cutsheets for all devices and wiring, floor plans showing devices and wiring, single line diagram and a sequence of operation for each device.

#### d. Loss of power to hub shall automatically turn on emergency lighting. e. Provide additional hubs where lighting controls devices are out of wireless communications range from the closest hub shown on the

- Maintain 4' between occupancy sensors and air grills and mount devices within line of sight of entrances, teachers desks and student areas. Provide additional sensor as required for full coverage. 10. Sensors shall be set for 30-minute timeout. In spaces with 2 or more zones
- are provided, sensing of occupant shall turn on 50% of the lighting, other 50% shall be turned on manually Exception: Toilet rooms, corridors, open office areas, shops or similar spaces where automatic on/off shall be
- 11. In classrooms and theory rooms emergency lighting fed through emergency power packs shall also act as security lighting and remain on at all times when the building is occupied. When the building is no longer occupied
- Where controls manufacturer recommends Category 5E wiring, the lighting control system supplier shall also supply all Category 5E factory terminated and tested, plenum rated, yellow cable with RJ45 connectors needed to
- Controllers, power pack or occupancy sensors shall have additional contact for HVAC integration. Provide a minimum of 1 HVAC integration point for each VAV equipment shown on the power and HVAC drawings. Install
- Factory-authorized technician shall train contractor before system rough-in. After submittals are provided for approval, provide site visit to review system layout, time schedules and interfaces.
- 17. Factory-authorized technician shall provide on-site system startup. Prior to startup meet with Owner and review control scheme to be implemented. 18. Programming shall meet the requirements of IECC 2015, section 405. 19. Factory-authorized technician shall provide on-site Owner training.
- 20. Provide warranty for 10-year battery life. 21. Through use of Lutron hub and software, each zone shall be capable of adjustments, and high level trim. Adjust high level trims as directed in
- 22. Controls shall be initially set as described above and on the Drawings. After the Owner has become accustomed to the use of the system, make further changes at the Owner's direction. Provide one visits to the site for this work, in addition to any punchlist, warranty or other visits. 23. Turn over attic stock to Owner at completion of work as follows: 6 ceiling
- mounted sensors and mounting hardware, 6 dim power packs and 3 2-button switches and 3 3-button switches. Lighting Control Devices Wall-box switches with timers shall have the following features: backlit
- LCD display with digital countdown timer, single pushbutton operation, mounts in standard box with standard Decora-style wall plate, 120/277V, 800W, flash/beep indicator, scrolling override of preset timeout, ivory color. Provide Watt Stopper TS-400. Set initial preset to 30 minutes. Set beep and flash indicators on. Where multiple wall-box timers control the same lights,
- 2. Controls with sensitivity or other adjustments shall be initially set as described above and on the Drawings. After the Owner has become accustomed to the use of the system, make further changes at the Owner's direction. Provide two visits to the site for this work, in addition to any punchlist, warranty or other visits.
- 3. Provide Owner training for each type of lighting control device provided. Provide submittals for each luminaire. When a luminaire is proposed as a substitute for that specified, provide photometric report for the exact model
- Where Luminaire Schedule indicates lighting furnished by Owner, installed by Electrical Contractor, install lighting furnished by Owner.
- 3. Provide driver/ballast disconnecting means whether or not required by NEC. 4. Each luminaire shall be provided with driver/ballast, lamps, trim and mounting hardware suitable for the installed location. 5. Provide hardware to support luminaires independent of the ceiling support
- 6. For grid-mounted luminaires, provide hardware to securely attach the 7. For linear pendant luminaires mounted in grid ceilings or on the grid,
- provide a single junction box used to covert from flexible cord to plenum rated circuiting and to support the pendant stem. If necessary, to keep separation of normal and emergency circuiting, provide dedicated junction
- box at one end of the pendant used to support stem and house normal circuiting and another junction box at the other end of the pendant used to support the stem and housing of emergency circuiting. 8. Identify each luminaire on the project with a circuit number. Use
- self-adhesive labels inside luminaires, placed so that the labels are visible when changing lamps but not visible in typical use. 9. For adjustable fixtures, adjust as directed by the Architect.
- 10. See architectural ceiling plan for exact placement of lighting. In case of gross discrepancy between lighting plans and architectural ceiling plan, alert architect and engineer for resolution.
- 1. Provide emergency lighting equipment as specified on the drawings. 2. Comply with local ordinance for exit signs. Where exit signs are shown at entrances or exit doors, provide exit sign high on wall and another low on the wall, final locations shall be coordinated with AHJ in the field. 3. If in conduit or junction box, emergency system wiring shall not be in a
- conduit or junction box shared with normal system wiring. L. 271500--Teledata Wiring System
- 1. Provide a unified Category 6 teledata wiring system, with a cable for each telephone and data jack shown on the drawings. Run cables from jacks to new modular patch panels in existing cabinets or racks. Provide system components by Leviton with plenum-rated white Category 6
- cabling, faceplates, jacks and patch panels to match existing category 6 wiring throughout the building. 3. Where teledata jacks are indicated to be relocated, prior to any demolition, test teledata link with an automated tester to EIA/TIA standards to verify link was fully functional. Turnover test reports to Architect/Engineer. After testing is complete continue with work shown on the drawings. Uncoil
- excess wiring in the ceiling, extend wiring to new location shown on the low-voltage drawing. Remove existing jack and replace with new jack and cover plate. Retest link with new jack at new location. Contractor shall ensure that location of wiring and new device meet or exceed initial test results. If follow up testing does not meet or exceed initial test report, the contractor shall correct deficiencies or provide new to match existing. 4. Remove wireless access antennas and supports turn over to Owner. Coil and protect wiring in the ceiling from construction dust. Relocate device as
- shown on the drawings and install Owner furnished wireless access antenna. Comply with requirements above for relocating teledata jacks and testing. At location where new wireless access antennas are shown, not relocated, comply with requirements for teledata devices, install Owner furnished 6. Provide raceway except in accessible indoor ceiling spaces, attics and in
- hollow gypsum-board partitions. 7. At jack locations, provide multiport stainless-steel faceplates with four openings, Leviton QuickPort ivory jacks. Provide jacks as indicated and
- electrical ivory blank modules for unused jack locations. 8. Terminate teledata wiring in Leviton 2-unit 48-port QuickPort patch panels, with one Category 6 data jack for each cable termination, and 5 spare jacks for future use. Include rear cable management bars that screw into the back of the rack at each patch panel, secure cables to support bars within 1" of
- Provide 2-unit horizontal cable management below and above each patch panel, on the front and back of the rack. Horizontal management shall have covers to keep wiring secured in raceway. Unless Owner directs otherwise, jack labels shall have the form XY, where
- X shall be a letter designating the patch panel, and Y shall be a number designating the jack in the patch panel Labels shall be placed at each end of the cable, on the workstation faceplate,
- and on the patch panel. Use machine-printed, self-adhesive labels. 12. Provide as-built plans with each location shown, indicating the label used
- 13. Test installed wiring through patch panels and jack locations to specified EIA/TIA standards using an automated tester. Repair any deficiencies and retest. Submit testing report. 14. Cross-connect wiring and patch cables will be provided by the Owner.
- M. 274133--Television Distribution
- 1. Maintain existing Television system. 2. At locations of televisions provide teledata jacks, duplex receptacle and 1.25" conduit to accessible ceiling space, comply with requirements for
- 3. Provide approval and field coordinate location of devices, and boxes with the Owner prior to rough-in work.
- 4. Television, controls and mounting by Others.

- N. Smartboards
- 1. At locations of smartboards provide duplex receptacle, device backbox, box cover with 1" knockout and rubber grommet, and conduit from box to accessible ceiling space. At location of podium shown on the drawing provide duplex receptacle, 2
- data jacks and device backboxe, box cover with 1" knockout and rubber grommet mounted at 18" AFF. Provide 1" conduit from device back box to accessible ceiling.
- Provide approval and field coordinate location of devices, and boxes with the Owner prior to rough-in work.
- 4. Smartboard, controls, control wiring, and mounting by Others. O. 275123--Paging System
- New paging system, speakers and wiring by Owner as part of overall system upgrade during the summer. Coordinate new work Owner installation of new paging system.
- Remove speakers shown to be demolished, remove wiring back to source, unless Owner requests wiring to be removed back to the location where wiring enters the room. Coordinate with Owner.
- P. 275313--Clock Demolish clocks and combination clock speaker units. Remove wiring back
- to source. Patch and paint walls to match existing. 2. Maintain existing combination clock speaker combination units not shown to be relocated.
- 3. New clock system, clocks and wiring by Owner as part of overall system upgrade during the summer. Coordinate new work Owner installation of new clock system.
- Q. 281300--Access Control
- Maintain existing.
- New work related to replacement of door hardware or new door hardware to be provided by Owner's subcontractor in conjunction with construction. Coordinate with the Owner's subcontractor as needed for new work.
- R. 281600--Intrusion Detection
- 1. Maintain existing.
- 2. New work related to replacement of security sensors or new security sensors to be provided by Owner's subcontractor in conjunction with construction. 3. Coordinate with the Owner's subcontractor as needed for new work.
- S. 282300--Video Surveillance
- Maintain existing IP camera system.
- At locations of new cameras provide teledata jacks, comply with requirements for Teledata Wiring System, coordinate final location with Owne 3. Owner to provide cameras, hardware and installation.
- T. 283111--Fire Alarm
- 1. Modify the existing Edwards fire alarm system as noted below and shown on the drawings. Provide new devices shown on the drawings, including horn/strobe units,
- and strobe-only units. Provide all power supplies, expansion boards, wiring, and programming required to support devices. Feed new power supplies from dedicated circuits in nearest emergency panels. Fire alarm system managed and maintained by ADT Commercial at 101 Pheasant Run, Newtown, PA 18940, contact: Chris Fioravanti, Cell phone
- #: 267-228-3253, office phone number: 215- 579-7000, email: chris.fioravanti@redhawkus.com. Provide submittal, wiring, components and programming as recommended by ADT Commercial. 4. Wiring shall be listed fire alarm cable as recommended by the manufacturer.
- 5. Provide shop drawings, I/O matrix, battery calculations, voltage drop calculations and other documentation required by NFPA 72 to the authority having jurisdiction. If the authority deems these items as required for approval of LVE plans. LVE requests that these be considered deferred submittals as described in 2015 IBC 107.3.4.1 6. Obtain permits and satisfactory inspections from authority having
- jurisdiction. 7. Provide record of completion, owner's manual, record drawings, and other testing and documentation to meet NFPA 72 requirements and satisfy the authority.
- U. Systems Provided by Others
- 1. Telephone handsets and telephone switch.
- 2. Data network equipment above physical layer 3. Local conference room audio and video systems.
- 4. Access control system.
- 5. New paging and intercommunications system. 6. Camera system beyond wiring.
- V. Alternate
- 1. Base bid: Provide distribution equipment by: Cutler-Hammer, Siemens, or
- Alternate E-1: Provide distribution equipment by: ABB, formerly General



ATS AUTOMATIC TRANSFER SWITCH PHOTOVOLTAIC DC COMBINER BOX CB CONT CONTACTOR CONSOLIDATION POINT CP DISCONNECT SWITCH ECB ENCLOSED CIRCUIT BREAKER IDF INTERMEDIATE DISTRIBUTION FRAME LCP LIGHTING CONTROL PANEL мсс MOTOR CONTROL CENTER MOTOR STARTER MS PDU POWER DISTRIBUTION UNIT ELECTRICAL PANEL SWBD SWITCHBOARD SWGR SWITCHGEAR TRAN TRANSFORMER UPS UNINTERRUPTIBLE POWER SUPPLY

## ELECTRICAL SYMBOLS

	LIGHTING
S	SINGLE POLE SWITCH
S S <sub>3</sub>	3-WAY SWITCH
53 S4	4-WAY SWITCH
Sĸ	KEY SWITCH
ß	BATTERY OPERATED LIGHTING CONTROL SWITCH, ZONE b
ه گ	BATTERY OPERATED LIGHTING CONTROL DIMMING SWITCH, ZONE b
S <sub>T</sub> S <sub>D</sub>	SWITCH WITH ELECTRONIC TIMER DIMMER SWITCH
S <sup>3D</sup>	3-WAY DIMMER SWITCH
S <sup>M</sup>	SWITCH WITH MOTION SENSOR
<u>\$</u>	EMERGENCY BATTERY BACKUP UNIT EMERGENCY HEADS
	EXIT SIGN, ARROWS AS SHOWN
	> LUMINAIRES
0	)
	LUMINAIRE TYPE A IN CONTROL ZONE b
Ю	WALL-MOUNT LUMINAIRE
$\oslash$	NORMAL/EMERGENCY LUMINAIRE
0	EMERGENCY-ONLY LUMINAIRE
	MOTION SENSOR - CEILING-MOUNTED MT
LIGHTING	MOTION SENSOR - AISLE TYPE
	MOTION SENSOR - ADJUSTABLE SWIVEL NECK - CORNER CEILING OR WALL MOUNTED MT
HUB	NETWORK LIGHTING CONTROL HUB WITH ONE DATA JACK
	FIRE ALARM
$\langle \mathbf{z} \rangle$	SMOKE DETECTOR
Ή	HEAT DETECTOR
(S) <sub>bt</sub>	BEAM SMOKE DETECTOR TRANSMITTER
SBR	BEAM SMOKE DETECTOR RECEIVER
(B)	DUCT SMOKE DETECTOR FIREFIGHTER TELEPHONE JACK
ری ات	MANUAL PULL STATION
ت آکل	AUDIO/VISUAL ALARM
 2	VISUAL ALARM
SM <sub>CM</sub>	VISUAL ALARM - CEILING MOUNTED VOICE/VISUAL ALARM
FSA FSA <sub>CM</sub>	VOICE/VISUAL ALARM VOICE/VISUAL ALARM - CEILING MOUNTED
ES CM	SPEAKER
FACP	FIRE ALARM CONTROL PANEL
FAA	
M	
FS	
	INPUT INTERFACE MODULE
	TAMPER SWITCH INTERFACE
PS	PRESSURE SWITCH INTERFACE
	SECURITY
D	DOOR CONTACT
DI	DOOR INTERCOM STATION
CR	CARD READER
<b>E</b> 3	
ES EL	ELECTRIC DOOR STRIKE ELECTRIC LATCH RETRACTION HARDWARE
EL PT	POWER TRANSFER DEVICE
<u>ML</u>	MAGNETIC DOOR LOCK
MI	MASTER DOOR INTERCOM STATION
( 🕅	MOTION SENSOR - CEILING-MOUNTED US
	MOTION SENSOR - CEILNG-MOUNTED MT
-VOLTAGE	MOTION SENSOR - CEILING-MOUNTED IR
NS -	

MOTION SENSOR - REQUEST TO EXIT

360° VIDEO SURVEILLANCE CAMERA

180° VIDEO SURVEILLANCE CAMERA

90° VIDEO SURVEILLANCE CAMERA

VIDEO SURVEILLANCE CAMERA WITH ONE DATA JACK

SHOWN ON POWER OR LOW-VOLTAC PLANS

## **GENERAL ELECTRIC DEVICE ANNOTATION**

GROUND FAULT INTERRUPTER

- COUNTERTOP HEIGHT CD CORD DROP CR CORD REEL CM CEILING MOUNTED
- ELECTRICAL WATER COOLER GFI
- PROJECTOR/SMARTBOARD SURFACE MOUNT
- TELEVISION TR TAMPER RESISTANT
- U USB W WEATHERPROOF
- X-Y NEMA X-Y # MOUNT #' ABOVE FINISH FLOOR

GE	NERAL ELECTRIC
S <sub>P</sub> S <sub>F</sub>	SWITCH WITH PILOT LIGHT FAN SWITCH
S <sub>MT</sub>	MANUAL MOTOR CONTROL SWITCH
$\boxtimes$	MOTOR STARTER
	DISCONNECT SWITCH
$\boxtimes^{\!$	COMBINATION STARTER
φ	DUPLEX RECEPTACLE
<b>⊕</b> ⊘	DOUBLE-DUPLEX RECEPTACLE SPECIAL RECEPTACLE
₽⊽▼	DEVICE IN CONCEALED RECESSED FLOOR BOX
0 T P S	JUNCTION BOX TRANSFORMER POWER POLE SOLENOID VALVE TIME CLOCK
$\langle D \rangle$	HAND DRYER
$\oplus$	HAIR DRYER
	TWO-COMPARTMENT SURFACE RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY.
	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR
	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY.
	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY. PANEL
	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY. PANEL BASEBOARD HEATER
	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY. PANEL BASEBOARD HEATER MOTOR WIRING CONCEALED EXCEPT WHERE RUN IN OPEN STRUCTURE WIRING BELOW SLAB OR GRADE
~~ ~~	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY. PANEL BASEBOARD HEATER MOTOR WIRING CONCEALED EXCEPT WHERE RUN IN OPEN STRUCTURE WIRING BELOW SLAB OR GRADE EMERGENCY SYSTEM WIRING
P1-1	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY. PANEL BASEBOARD HEATER MOTOR WIRING CONCEALED EXCEPT WHERE RUN IN OPEN STRUCTURE WIRING BELOW SLAB OR GRADE EMERGENCY SYSTEM WIRING HOME RUN/CIRCUIT TAG
	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY. PANEL BASEBOARD HEATER MOTOR WIRING CONCEALED EXCEPT WHERE RUN IN OPEN STRUCTURE WIRING BELOW SLAB OR GRADE EMERGENCY SYSTEM WIRING HOME RUN/CIRCUIT TAG MULTICONDUCTOR WIRING
	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY. PANEL BASEBOARD HEATER MOTOR WIRING CONCEALED EXCEPT WHERE RUN IN OPEN STRUCTURE WIRING BELOW SLAB OR GRADE EMERGENCY SYSTEM WIRING HOME RUN/CIRCUIT TAG MULTICONDUCTOR WIRING CONDUIT RISE
	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY. PANEL BASEBOARD HEATER MOTOR WIRING CONCEALED EXCEPT WHERE RUN IN OPEN STRUCTURE WIRING BELOW SLAB OR GRADE EMERGENCY SYSTEM WIRING HOME RUN/CIRCUIT TAG MULTICONDUCTOR WIRING CONDUIT RISE CONDUIT RISE
	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY. PANEL BASEBOARD HEATER MOTOR WIRING CONCEALED EXCEPT WHERE RUN IN OPEN STRUCTURE WIRING BELOW SLAB OR GRADE EMERGENCY SYSTEM WIRING HOME RUN/CIRCUIT TAG MULTICONDUCTOR WIRING CONDUIT RISE CONDUIT RISE CONDUIT DROP
	RACEWAY. PROVIDE 3/4" CONDUIT TO HIGH-VOLTAGE AND 1 1/4" TO LOW-VOLTAGE SECTIONS. FOR EACH 20' OF RACEWAY. PANEL BASEBOARD HEATER MOTOR WIRING CONCEALED EXCEPT WHERE RUN IN OPEN STRUCTURE WIRING BELOW SLAB OR GRADE EMERGENCY SYSTEM WIRING HOME RUN/CIRCUIT TAG MULTICONDUCTOR WIRING CONDUIT RISE CONDUIT RISE CONDUIT DROP DMMUNICATIONS TELEVISION CABLE OUTLET

$\nabla$	DATA OUTLET WITH TWO JACKS
$\nabla_{\!\!N}$	DATA OUTLET WITH N JACKS
▼	SINGLE TELEPHONE OUTLET
▼N	TELEPHONE OUTLET WITH N JACKS
$\mathbf{V}$	COMBINED OUTLET WITH TWO DATA JACKS AND TWO TELEPHONE JACKS
WMD/NT	COMBINED OUTLET WITH M DATA JACKS AND N TELEPHONE JACKS

BOX WITH BLANK PLATE AND 1" CONDUI TO ACCESSIBLE CEILING SPACE WIRELESS COMMUNICATIONS SYSTEM ANTENNA. PROVIDE DOUBLE DATA JACK ABOVE CEILING

#### **PAGING AND PROGRAM**

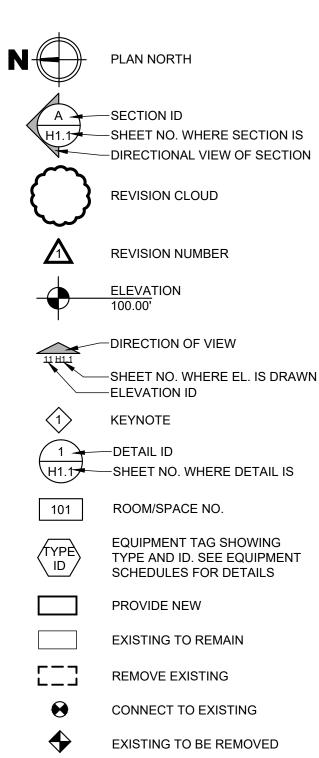
S	CEILING MOUNTED SPEAKER
S <sub>a</sub>	ADDRESSABLE SPEAKER
\$	HORN SPEAKER
<b>Š</b> A	ADDRESSABLE SPEAKER
BH	WALL MOUNTED BELL
СН	WALL MOUNTED CLOCK
DS	CLOCK/SPEAKER UNIT
$\checkmark$	VOLUME CONTROL

VE	ARCHITECT/ENGINEER
B CLG	ABOVE CEILING
ΔBV	ABOVE
<b>NFF</b>	ABOVE FINISHED FLOOR
FI	ARC-FAULT INTERRUPTER
<b>F</b> R	ABOVE FINISHED ROOF
LT	ALTERNATE
TS	AUTOMATIC TRANSFER SWITCH
FC	BELOW FINISHED CEILING
C/G	COUNTERTOP GFI
D	CORD DROP
L	CENTERLINE
LG	CEILING
M	CEILING MOUNTED
OL	COLUMN
т	COUNTERTOP HEIGHT-44" AFF UNO OR CURRENT TRANSFORMER
R	CORD REEL
BF	DOWN BELOW FLOOR
DET	DETAIL
AIA	DIAMETER
MM	DIMENSION
N	DOWN
W	DISHWASHER
WG	DRAWING
C	ELECTRICAL CONTRACTOR
L	ELEVATION
LEV	ELEVATOR
MER	EMERGENCY
0	EMERGENCY ONLY (NORMALLY OFF)
WC	ELECTRIC WATER COOLER (PROVIDE GFI RECEPTACLE)
X	EXISTING
A	FIRE ALARM
во	FURNISHED BY OWNER
LR	FLOOR
PC	FIRE PROTECTION CONTRACTOR
SC	FOOD SERVICE CONTRACTOR
SC	GENERAL CONTRACTOR
FI	GROUND-FAULT INTERRUPTER
SND	GROUND

## **COMMON ABBREVIATIONS**

HC	HVAC CONTRACTOR
HCP	HANDICAPPED
HGT	HEIGHT
HR	HOUR
IR	INFRARED
JB	JUNCTION BOX
KES	KITCHEN EQUIPMENT SUPPLIER
LV	LOW-VOLTAGE
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MT	MULTITECHNOLOGY
MO	MICROWAVE OVEN
NA	NOT APPLICABLE
NE	NORMAL/EMERGENCY (NORMALLY ON)
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED- CONTRACTOR INSTALLED
PC	PLUMBING CONTRACTOR
PIR	PASSIVE INFRARED
SE	SERVICE ENTRANCE
SECT	SECTION
SHT	SHEET
SIM	SIMILAR
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SS	SERVICE SINK
STD	STANDARD
SUSP	SUSPENDED
TBR	TO BE REMOVED
TL	TASK LIGHT
TR	TAMPER RESISTANT
TSTAT	THERMOSTAT
UNO	UNLESS NOTED OTHERWISE
US	ULTRASONIC
W/	WITH
W/O	WITHOUT
W	WALL-MOUNTED
WP	WEATHERPROOF

## **COMMON SYMBOLS**



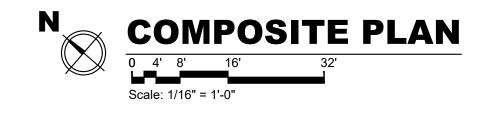
## **DRAWING LIST**

M000 M001 M101 M102 M103	-
M104	Partial Demolition Plan - Area 'A' - Plumbing
M105	Partial Demolition Plan - Area 'B' - Plumbing
M201	Partial Floor Plan - Area A
M202	
M203 M204	Partial Floor Plan - Areas C & D Partial Floor Plan - Area 'A' - Plumbing Drainage
M205	Partial Floor Plan - Area 'B' - Plumbing Drainage
M206	Partial Floor Plan - Area 'A' - Plumbing Supply
M207	Partial Floor Plan - Area 'B' - Plumbing Supply
M701	-
M702 M801	Plumbing Notes, Schedules & Details HVAC Schedules
10001	TVAC Schedules
E000	Cover Sheet
E001	Composite Plan
E101	Partial Demolition Plan - Area 'A'
E102	Partial Demolition Plan - Area 'B'
E103 E201	Partial Demolition Plan - Areas 'C & D' Partial Lighting Plan - Area 'A'
E201	Partial Lighting Plan - Area 'B'
E202	Partial Lighting Plan - Areas 'C & D'
E301	Partial Power Plan - Area 'A'
E302	Partial Power Plan - Area 'B'
E303	Partial Power Plan - Areas 'C & D'
E401	Partial Low Voltage Plan - Area 'A'
E402	Partial Low Voltage Plan - Area 'B'
E403 E701	Partial Low Voltage Plan - Areas 'C & D' Single Line Diagram
E701	Electrical Details

E703 Electrical Details E801 Electrical Schedules E802 Electrical Schedules

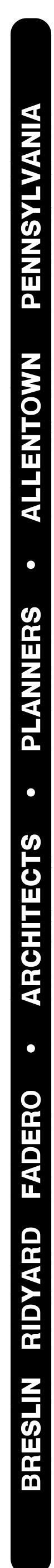


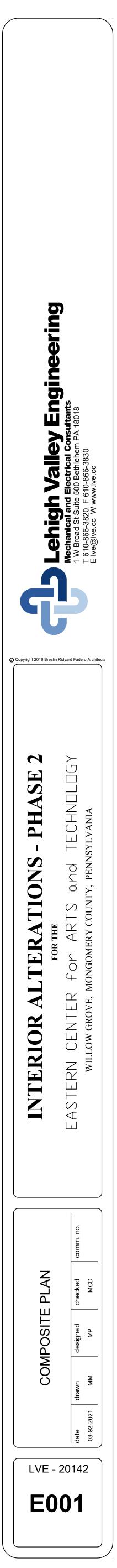


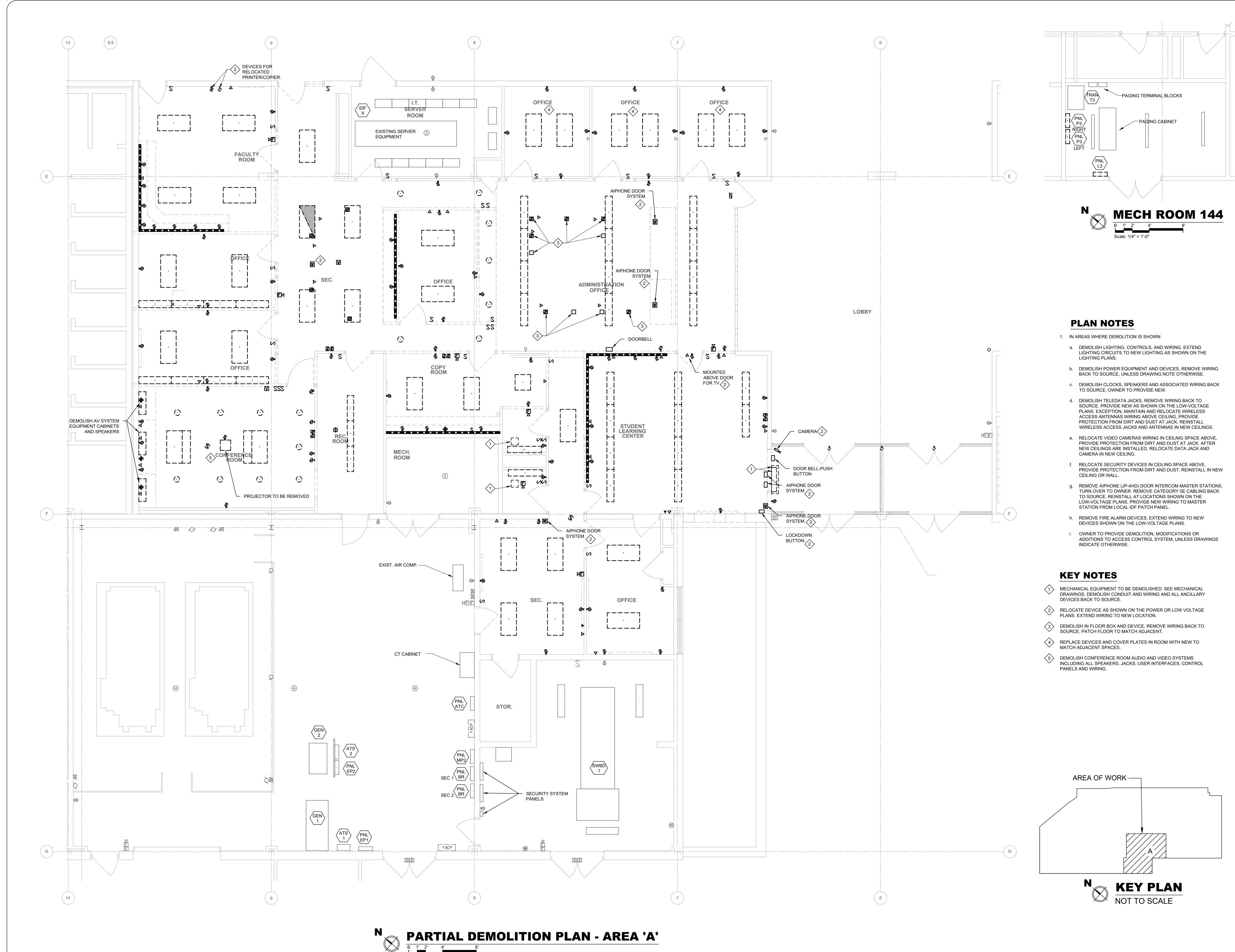


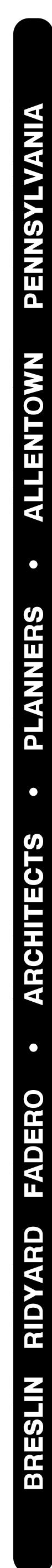
## **KEY NOTES**

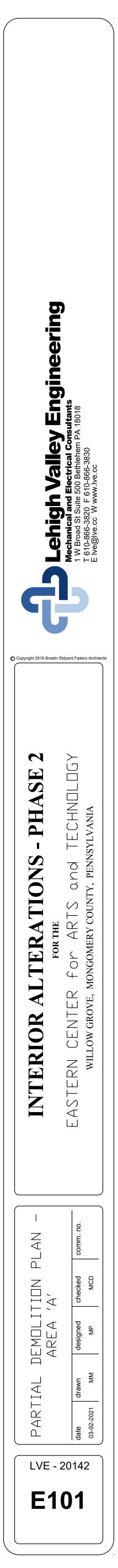
- FEED NEW TELEDATA JACKS IN AREA C FROM NEW PATCH PANELS IN EXISTING RACK.
- FEED NEW TELEDATA JACKS IN AREAS B & D FROM NEW PATCH PANELS IN EXISTING IDF-6.
- FEED NEW TELEDATA JACKS IN AREAS A FROM NEW PATCH PANELS IN EXISTING CABINET.

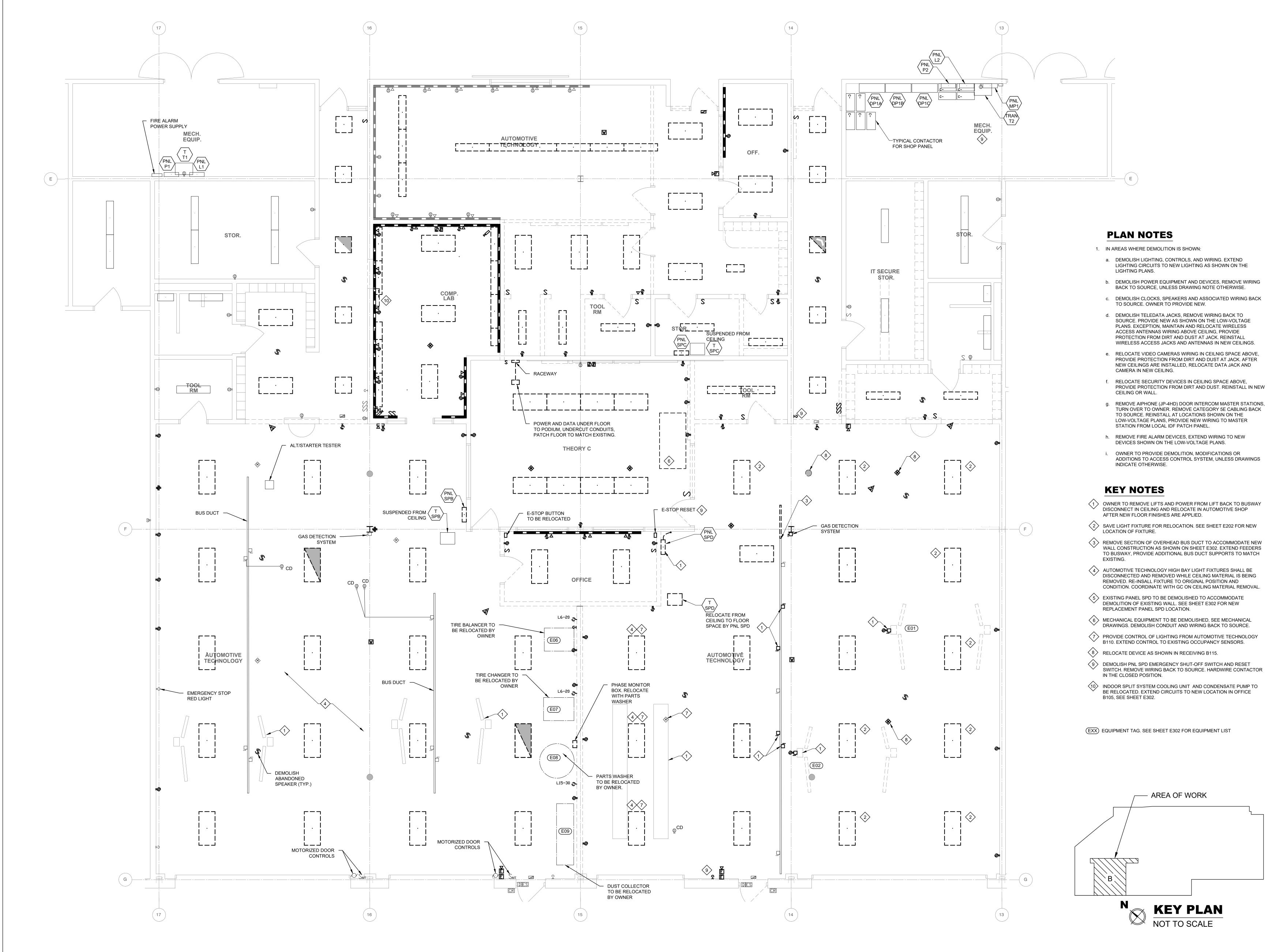






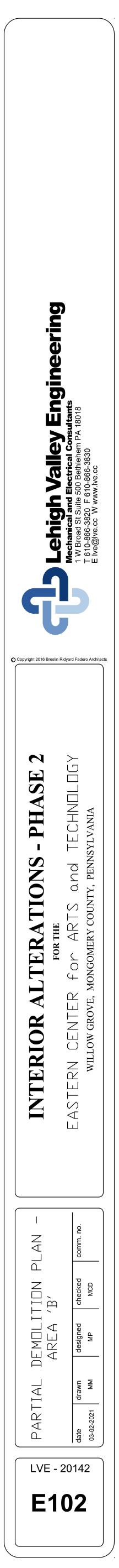


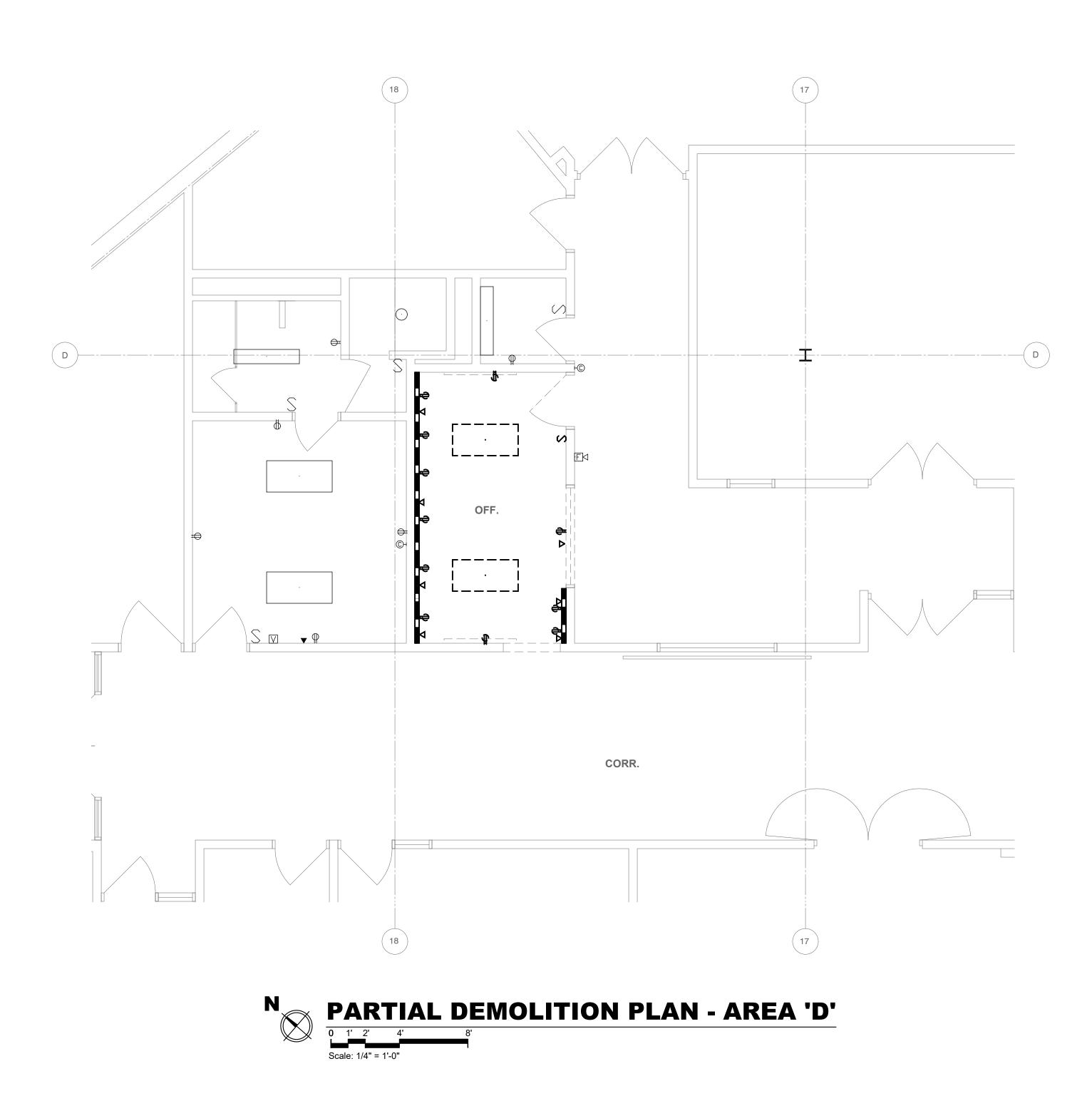


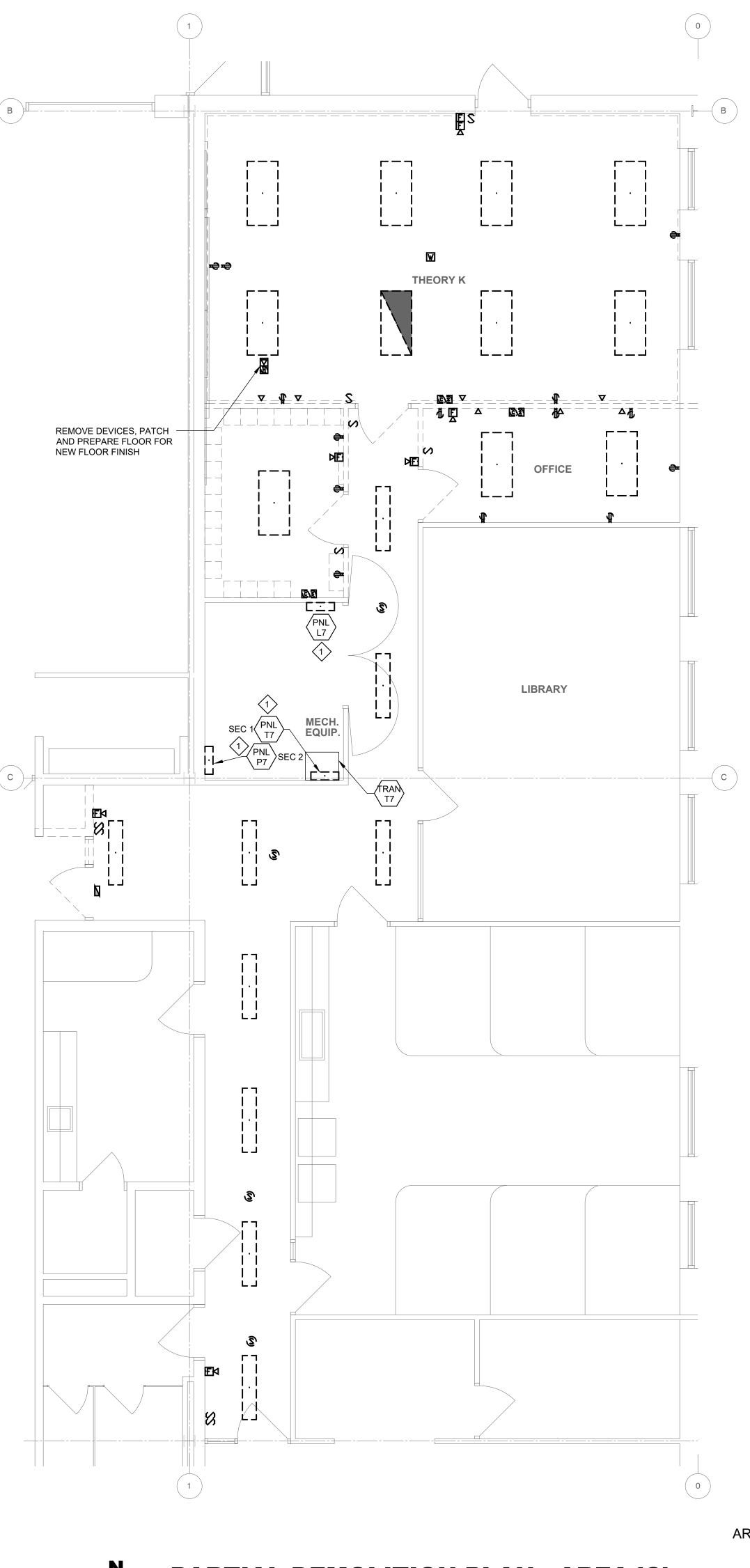


**PARTIAL DEMOLITION PLAN - AREA 'B'** N











# AREA OF WORK

**KEY NOTE** 

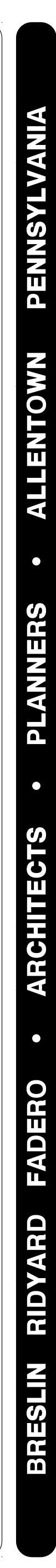
## **PLAN NOTES**

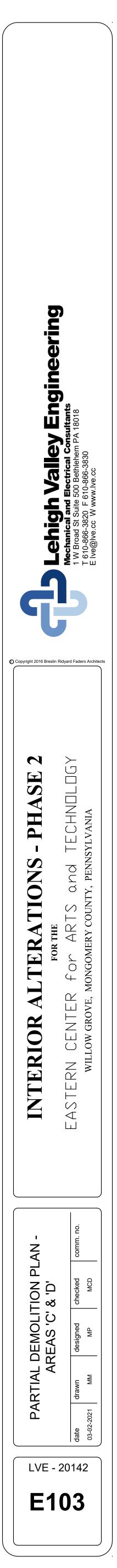
1. IN AREAS WHERE DEMOLITION IS SHOWN:

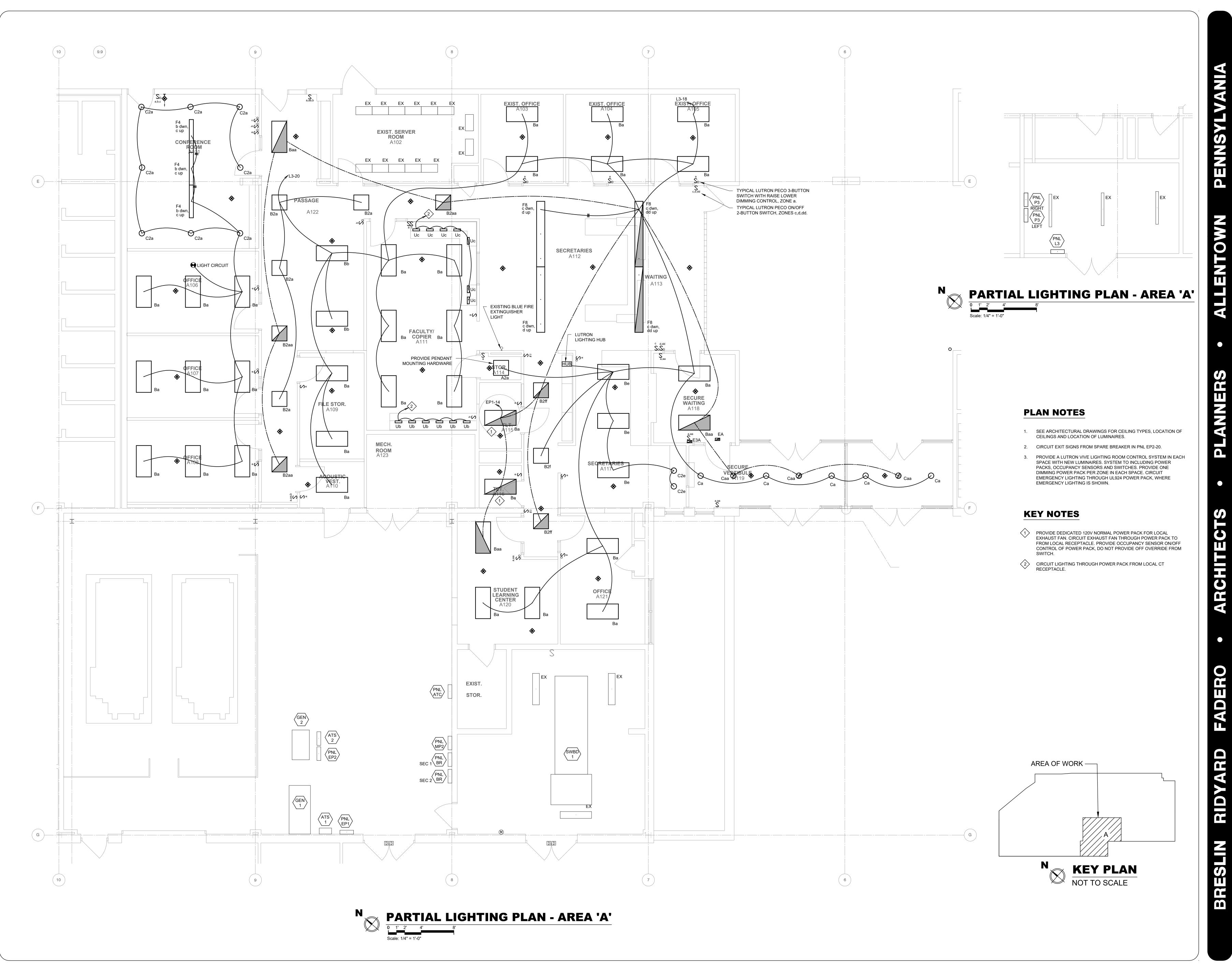
a. DEMOLISH LIGHTING, CONTROLS, AND WIRING. EXTEND LIGHTING CIRCUITS TO NEW LIGHTING AS SHOWN ON THE LIGHTING PLANS.

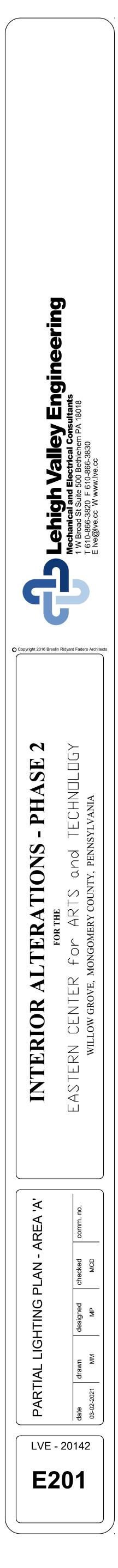
PROVIDE NEMA 1 ENCLOSURE AT LOCATION OF DEMOLISHED PNL. USE DIN RAIL MOUNTED CONNECTORS TO EXTEND BRANCH CIRCUITS TO NEW LOCATION. PROVIDE BATTED CONNECTORS SECURED TO ENCLOSURE TO EXTEND FEEDERS. LABEL EACH CONDUCTOR.

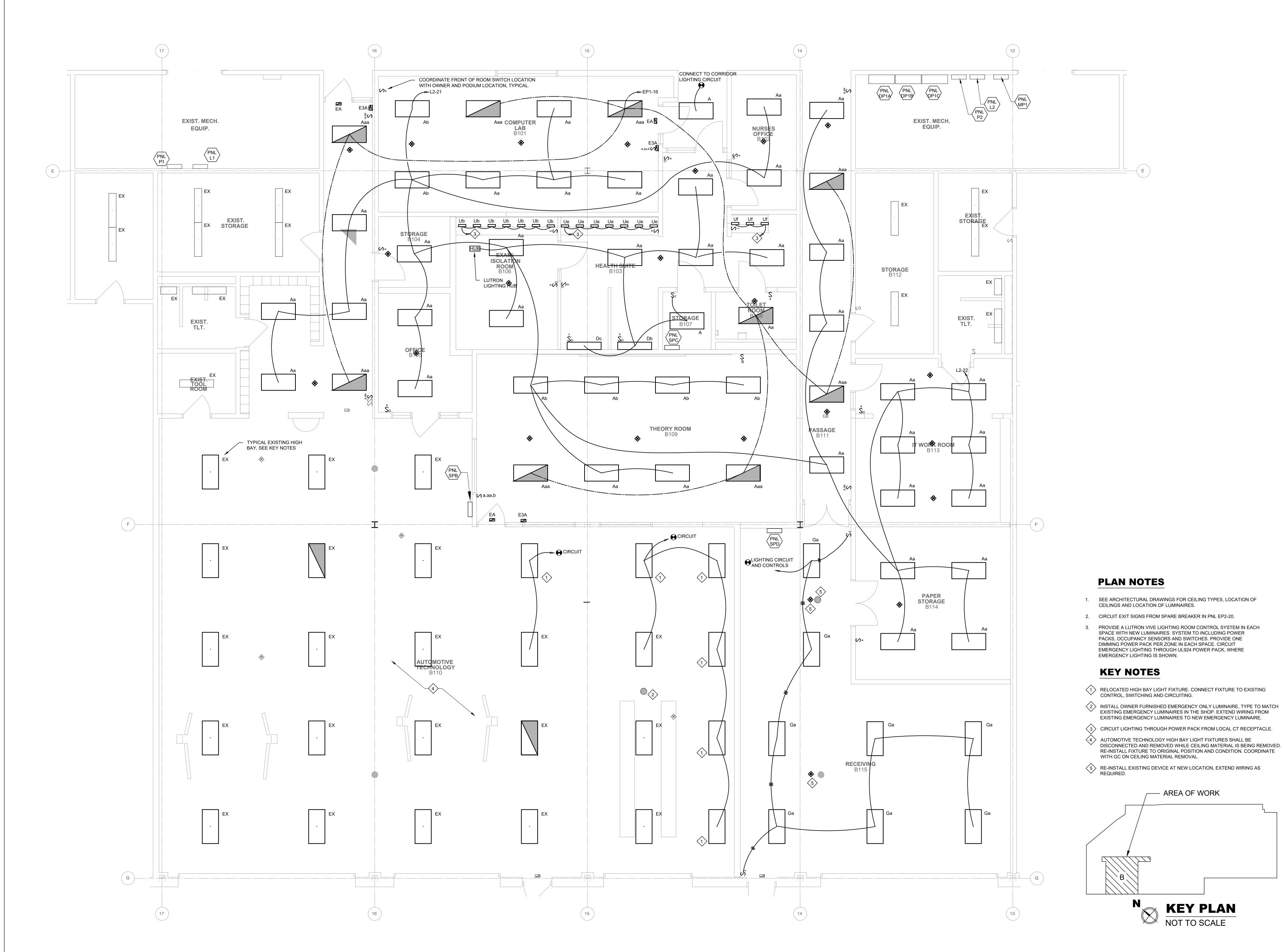
- DEMOLISH POWER EQUIPMENT AND DEVICES, REMOVE WIRING BACK TO SOURCE, UNLESS DRAWING NOTE OTHERWISE.
- c. DEMOLISH CLOCKS, SPEAKERS AND ASSOCIATED WIRING BACK TO SOURCE. OWNER TO PROVIDE NEW.
- d. DEMOLISH TELEDATA JACKS, REMOVE WIRING BACK TO SOURCE. PROVIDE NEW AS SHOWN ON THE LOW-VOLTAGE PLANS. EXCEPTION, MAINTAIN AND RELOCATE WIRELESS ACCESS ANTENNAS WIRING ABOVE CEILING, PROVIDE PROTECTION FROM DIRT AND DUST AT JACK. REINSTALL WIRELESS ACCESS JACKS AND ANTENNAS IN NEW CEILINGS.
- e. RELOCATE VIDEO CAMERAS WIRING IN CEILNIG SPACE ABOVE, PROVIDE PROTECTION FROM DIRT AND DUST AT JACK. AFTER NEW CEILINGS ARE INSTALLED, RELOCATE DATA JACK AND CAMERA IN NEW CEILING.
- f. RELOCATE SECURITY DEVICES IN CEILING SPACE ABOVE, PROVIDE PROTECTION FROM DIRT AND DUST. REINSTALL IN NEW CEILING OR WALL.
- g. REMOVE AIPHONE (JP-4HD) DOOR INTERCOM MASTER STATIONS, TURN OVER TO OWNER. REMOVE CATEGORY 5E CABLING BACK TO SOURCE. REINSTALL AT LOCATIONS SHOWN ON THE LOW-VOLTAGE PLANS, PROVIDE NEW WIRING TO MASTER STATION FROM LOCAL IDF PATCH PANEL.
- h. REMOVE FIRE ALARM DEVICES, EXTEND WIRING TO NEW DEVICES SHOWN ON THE LOW-VOLTAGE PLANS.
- OWNER TO PROVIDE DEMOLITION, MODIFICATIONS OR ADDITIONS TO ACCESS CONTROL SYSTEM, UNLESS DRAWINGS INDICATE OTHERWISE.





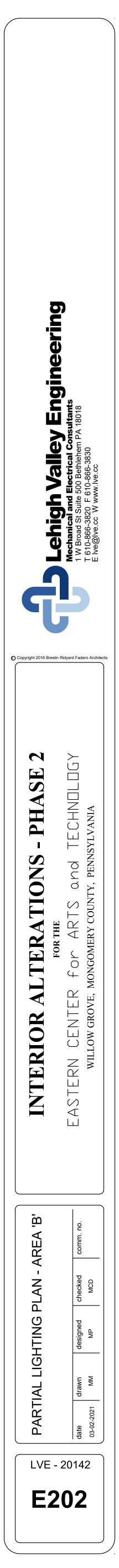


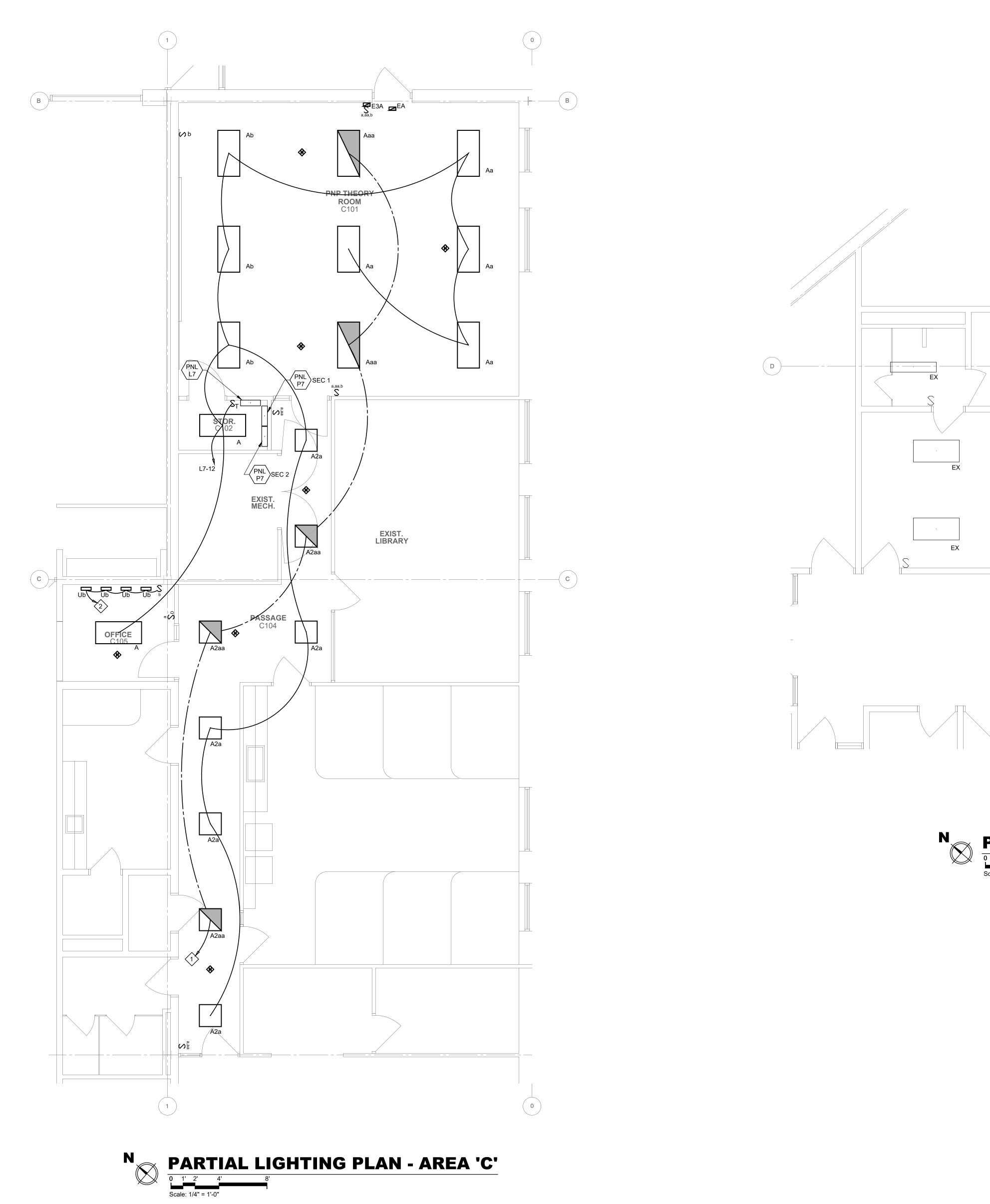




# $N_{0} = \frac{PARTIAL LIGHTING PLAN - AREA 'B'}{\frac{1}{2} + \frac{1}{2} + \frac{3}{2}}$

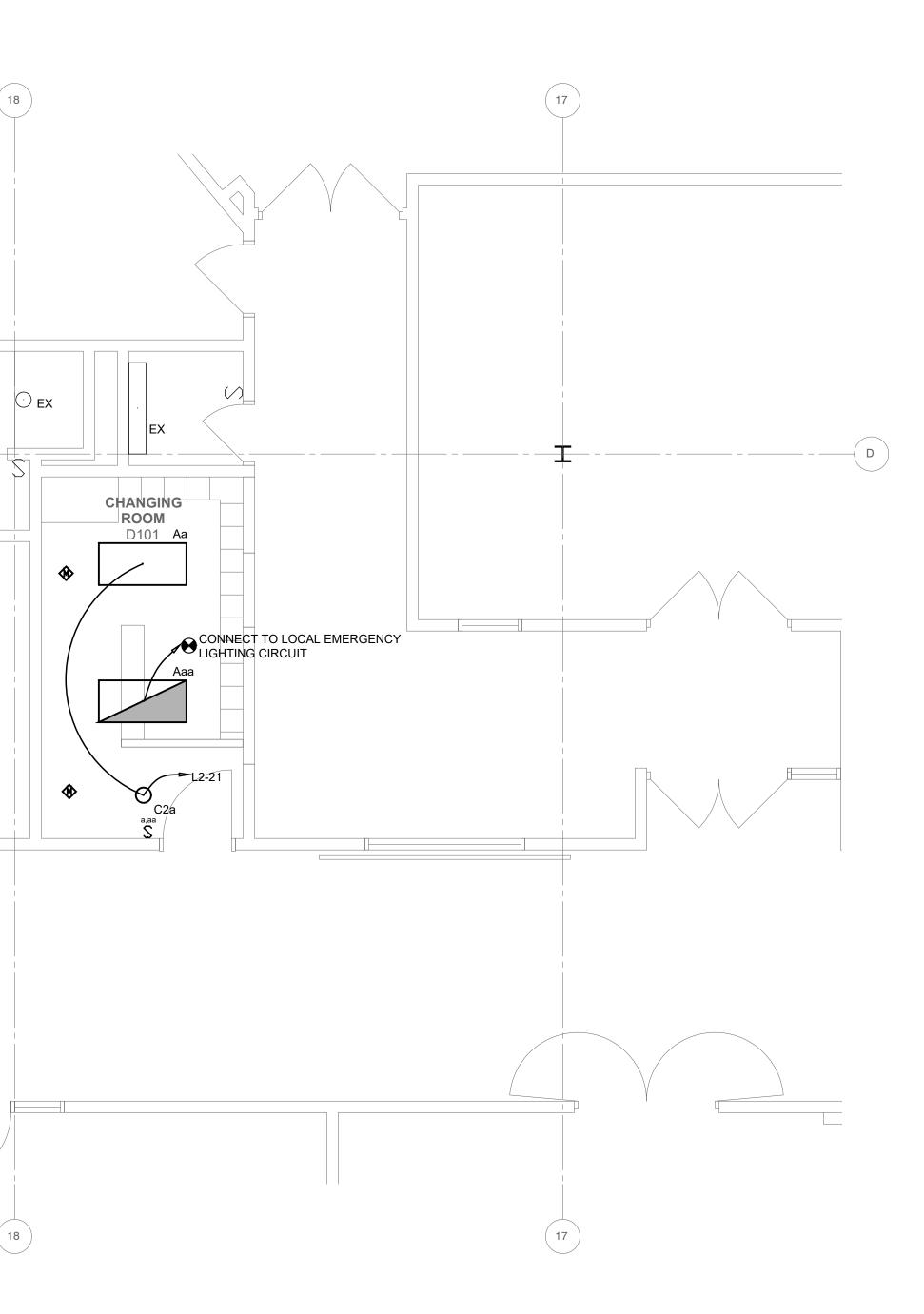






3

CIRCUIT EMERGENCY LIGHTING FROM NEW 20A/1P BREAKER IN PNL EP1B, SEE DRAWING E001 FOR PNL LOCATION. CIRCUIT LIGHTING THROUGH POWER PACK FROM LOCAL CT RECEPTACLE.



# PARTIAL LIGHTING PLAN - AREA 'D'

Scale: 1/4" = 1'-0"

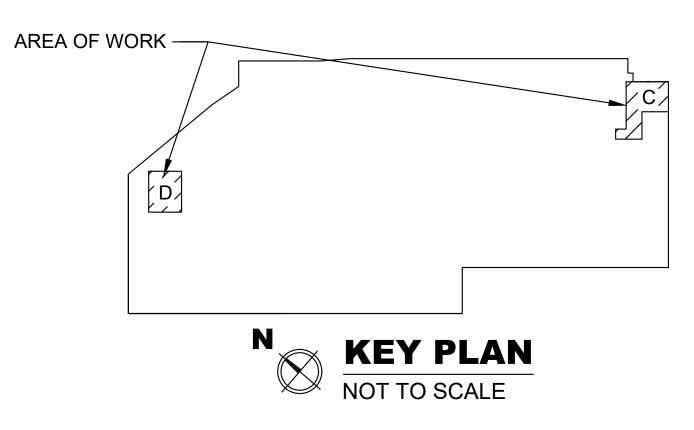
## **PLAN NOTES**

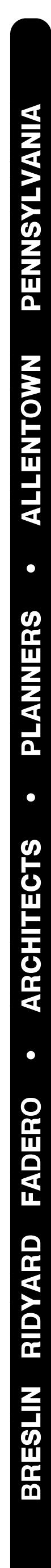
1. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES, LOCATION OF CEILINGS AND LOCATION OF LUMINAIRES.

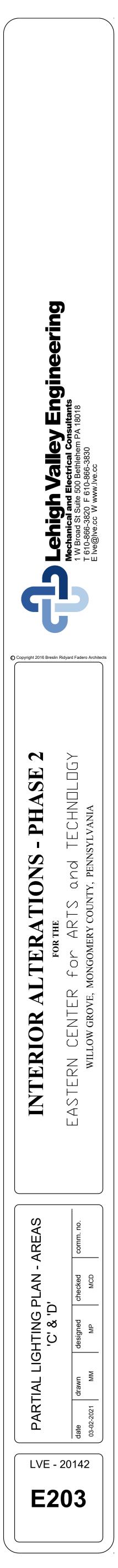
CIRCUIT EXIT SIGNS FROM SPARE BREAKER IN PNL EP2-20 OR NEW 20A/1P BREAKER IN PNL EP1B, SEE DRAWINGS E201 AND E001 FOR PNL LOCATIONS.

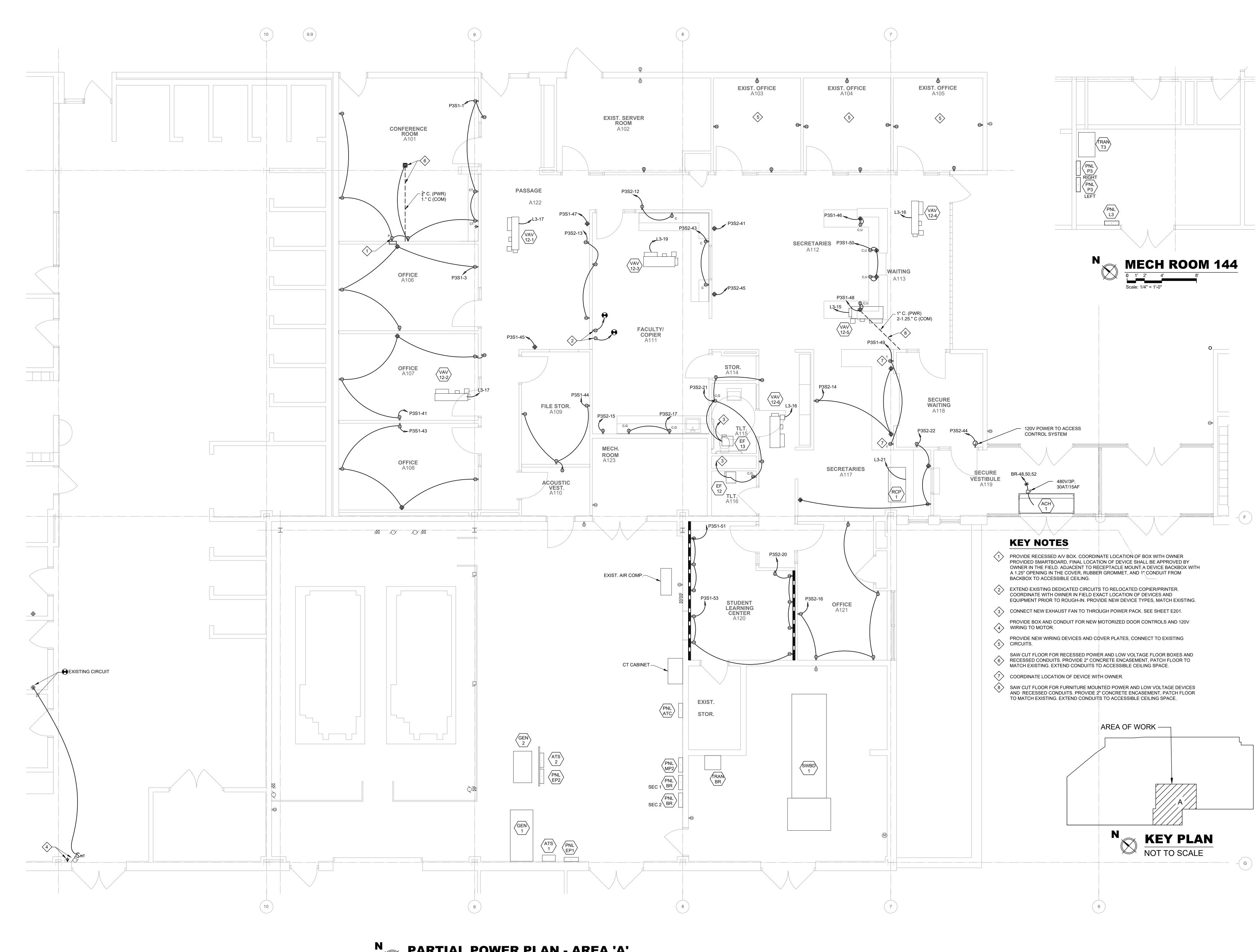
PROVIDE A LUTRON VIVE LIGHTING ROOM CONTROL SYSTEM IN EACH SPACE WITH NEW LUMINAIRES. SYSTEM TO INCLUDING POWER PACKS, OCCUPANCY SENSORS AND SWITCHES. PROVIDE ONE DIMMING POWER PACK PER ZONE IN EACH SPACE. CIRCUIT EMERGENCY LIGHTING THROUGH UL924 POWER PACK, WHERE EMERGENCY LIGHTING IS SHOWN.

## **KEY NOTES**

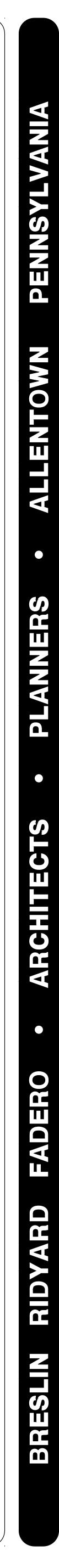


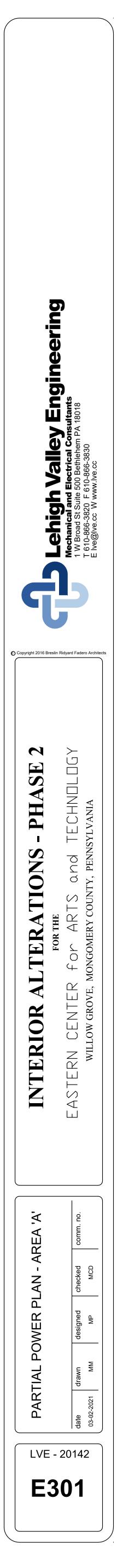


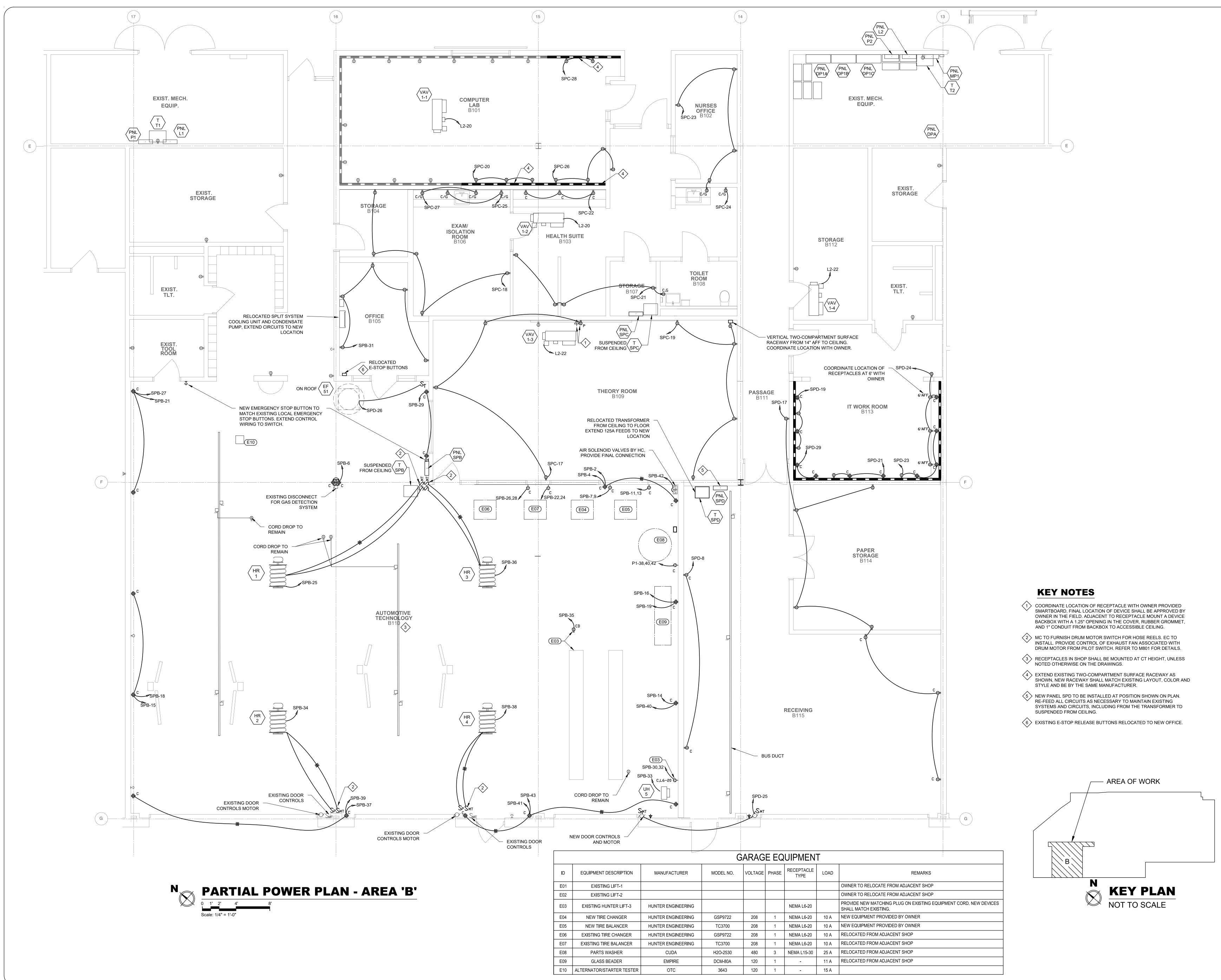




# $\bigotimes_{q} \frac{\text{PARTIAL POWER PLAN - AREA 'A'}}{\frac{1}{2} \frac{1}{2} \frac{4}{4} \frac{8}{8}}$

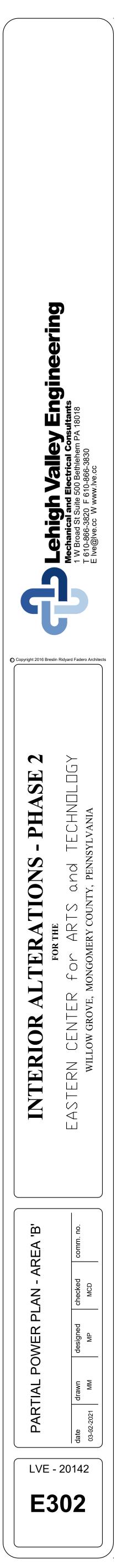


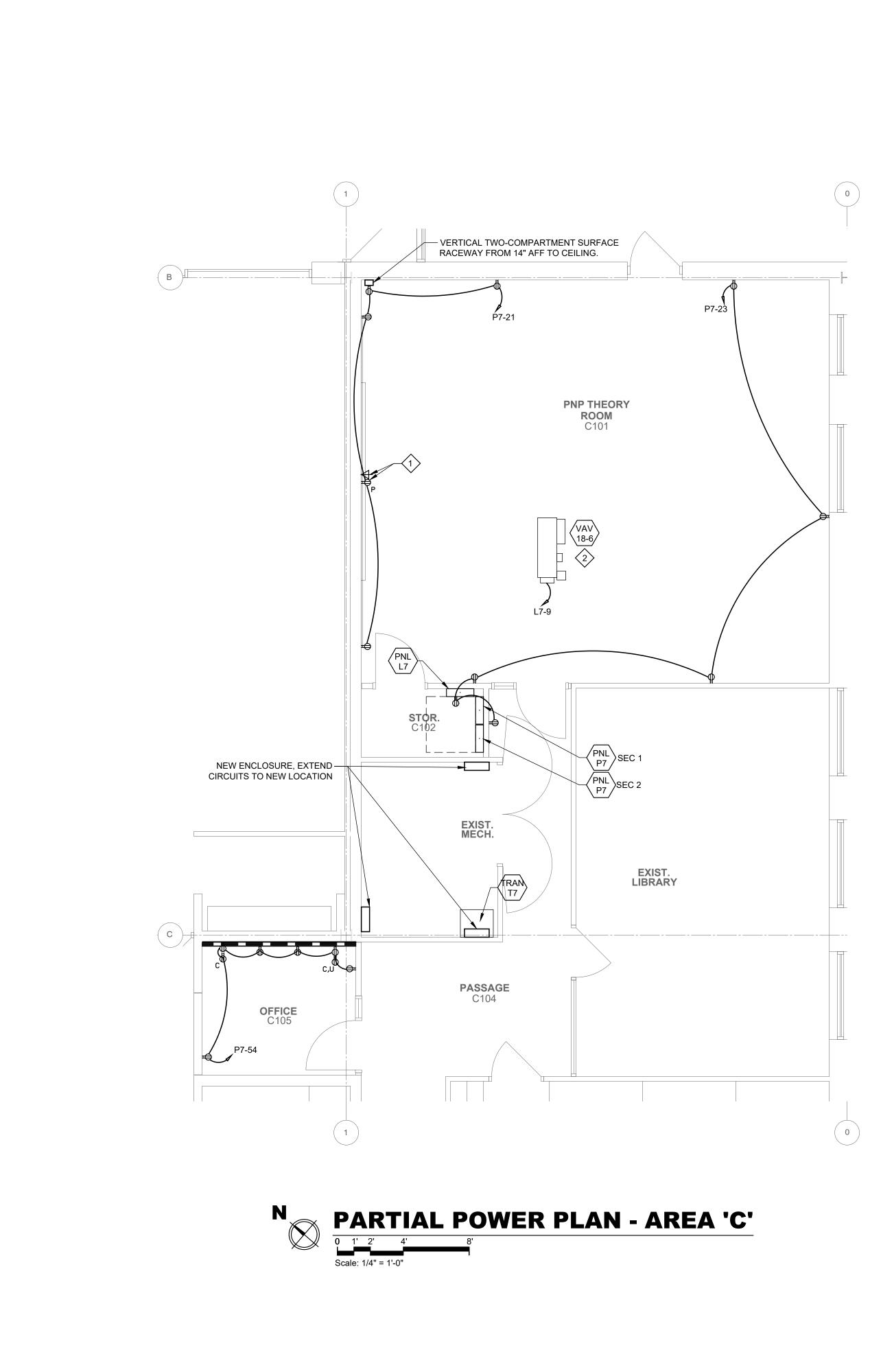


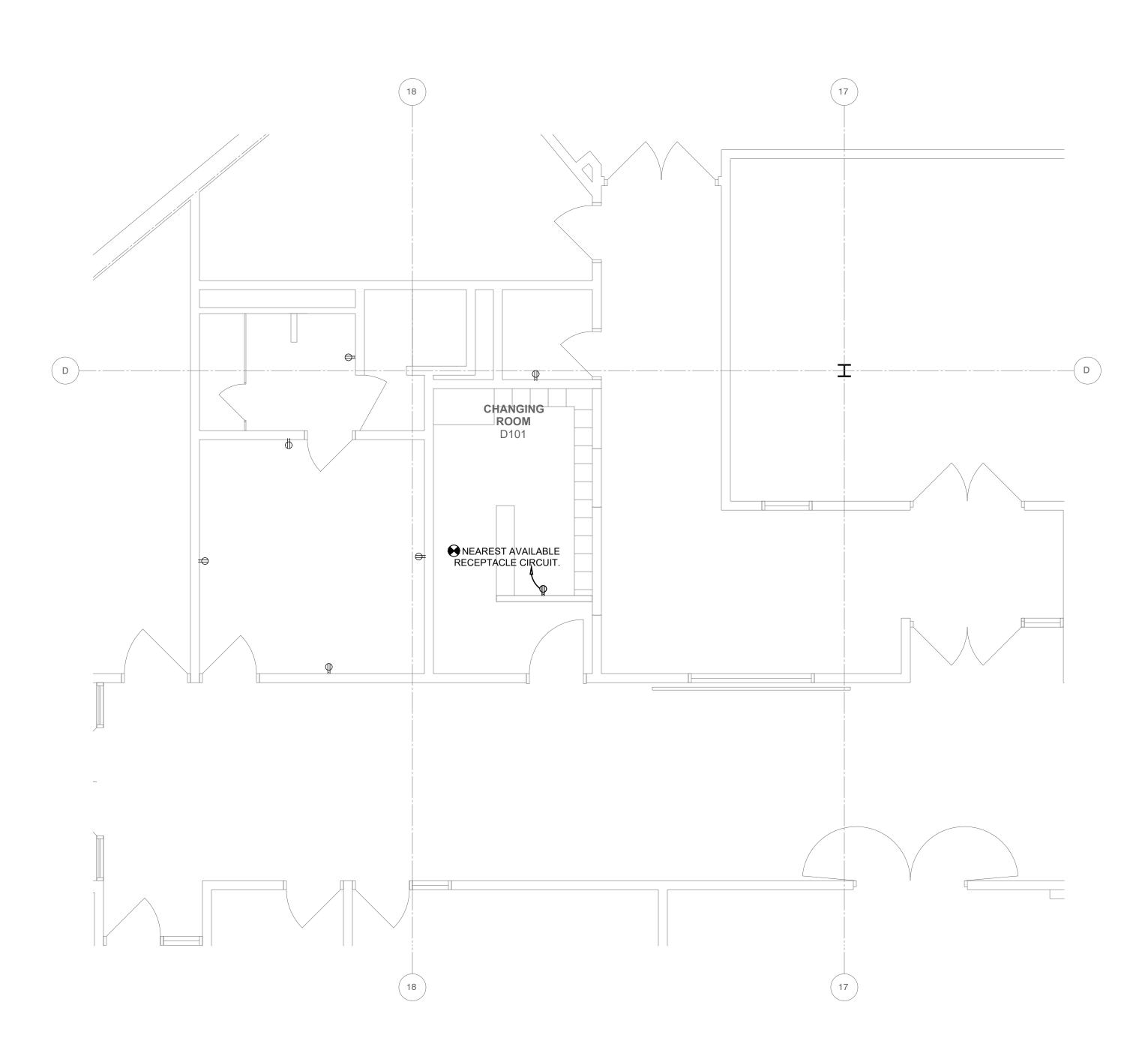


VIEN		
PTACLE PE	LOAD	REMARKS
		OWNER TO RELOCATE FROM ADJACENT SHOP
		OWNER TO RELOCATE FROM ADJACENT SHOP
L6-20		PROVIDE NEW MATCHING PLUG ON EXISTING EQUIPMENT CORD. NEW DEVICES SHALL MATCH EXISTING.
L6-20	10 A	NEW EQUIPMENT PROVIDED BY OWNER
L6-20	10 A	NEW EQUIPMENT PROVIDED BY OWNER
L6-20	10 A	RELOCATED FROM ADJACENT SHOP
L6-20	10 A	RELOCATED FROM ADJACENT SHOP
L15-30	25 A	RELOCATED FROM ADJACENT SHOP
-	11 A	RELOCATED FROM ADJACENT SHOP
-	15 A	





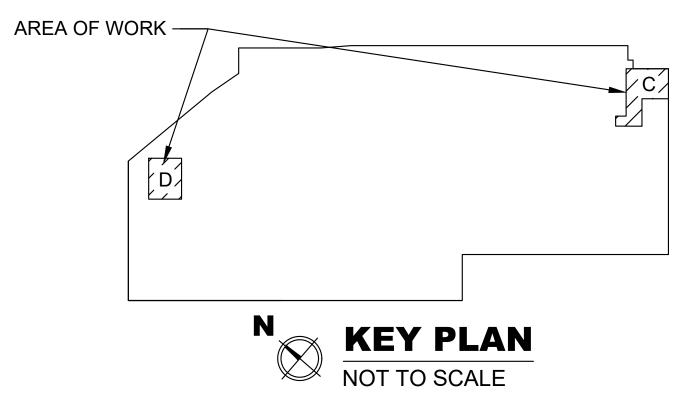




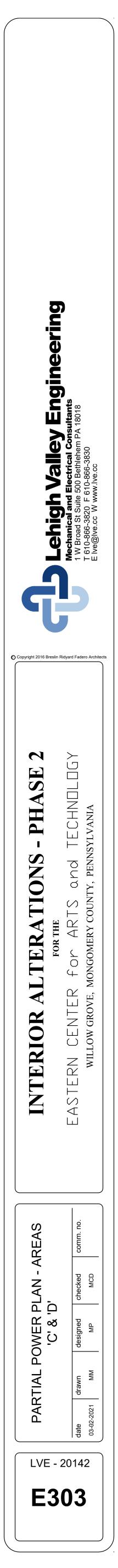
## **KEY NOTE**

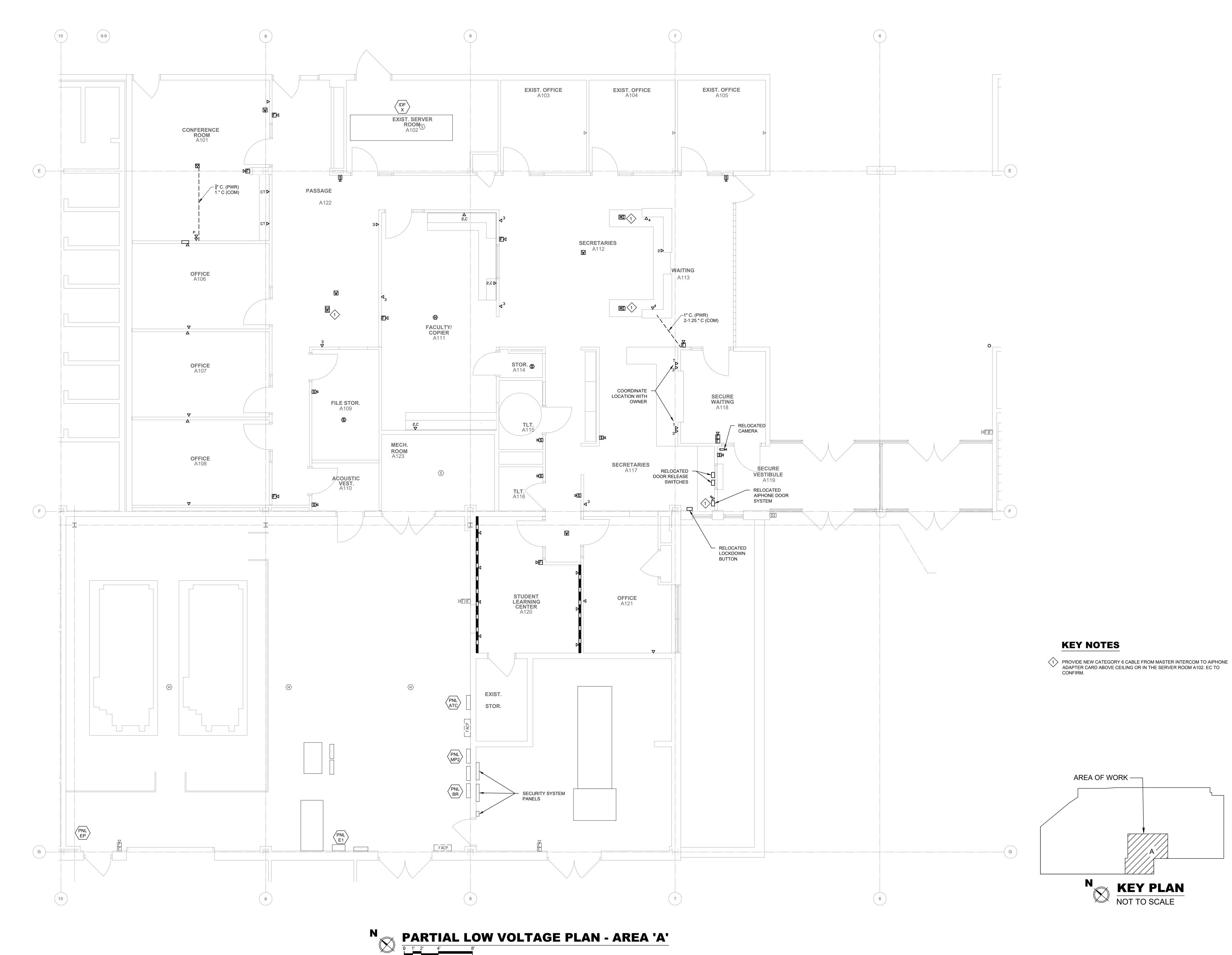
- COORDINATE LOCATION OF RECEPTACLE WITH OWNER PROVIDED SMARTBOARD, FINAL LOCATION OF DEVICE SHALL BE APPROVED BY OWNER IN THE FIELD. ADJACENT TO RECEPTACLE MOUNT A DEVICE BACKBOX WITH A 1.25" OPENING IN THE COVER, RUBBER GROMMET, AND 1" CONDUIT FROM BACKBOX TO ACCESSIBLE CEILING.
- DISCONNECT FOR VAV-18-6 TO BE PROVIDED BY MC PER HVAC DRAWINGS. EC TO MAKE ALL CONNECTIONS.

# $N_{0} = \frac{PARTIAL POWER PLAN - AREA 'D'}{\frac{1}{2} - \frac{1}{2} - \frac{4}{2} - \frac{8}{3}}$

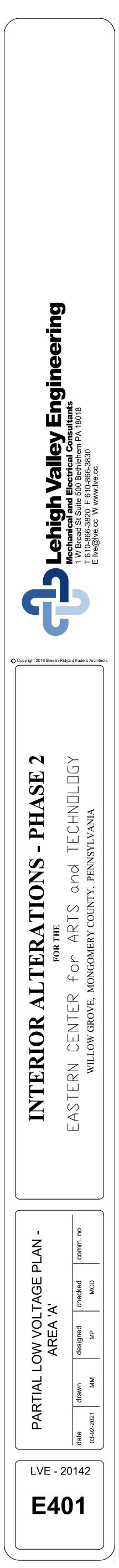








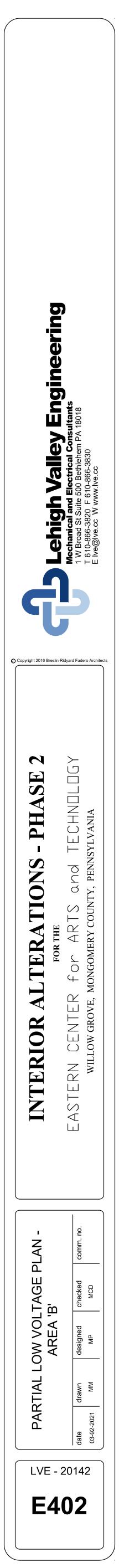


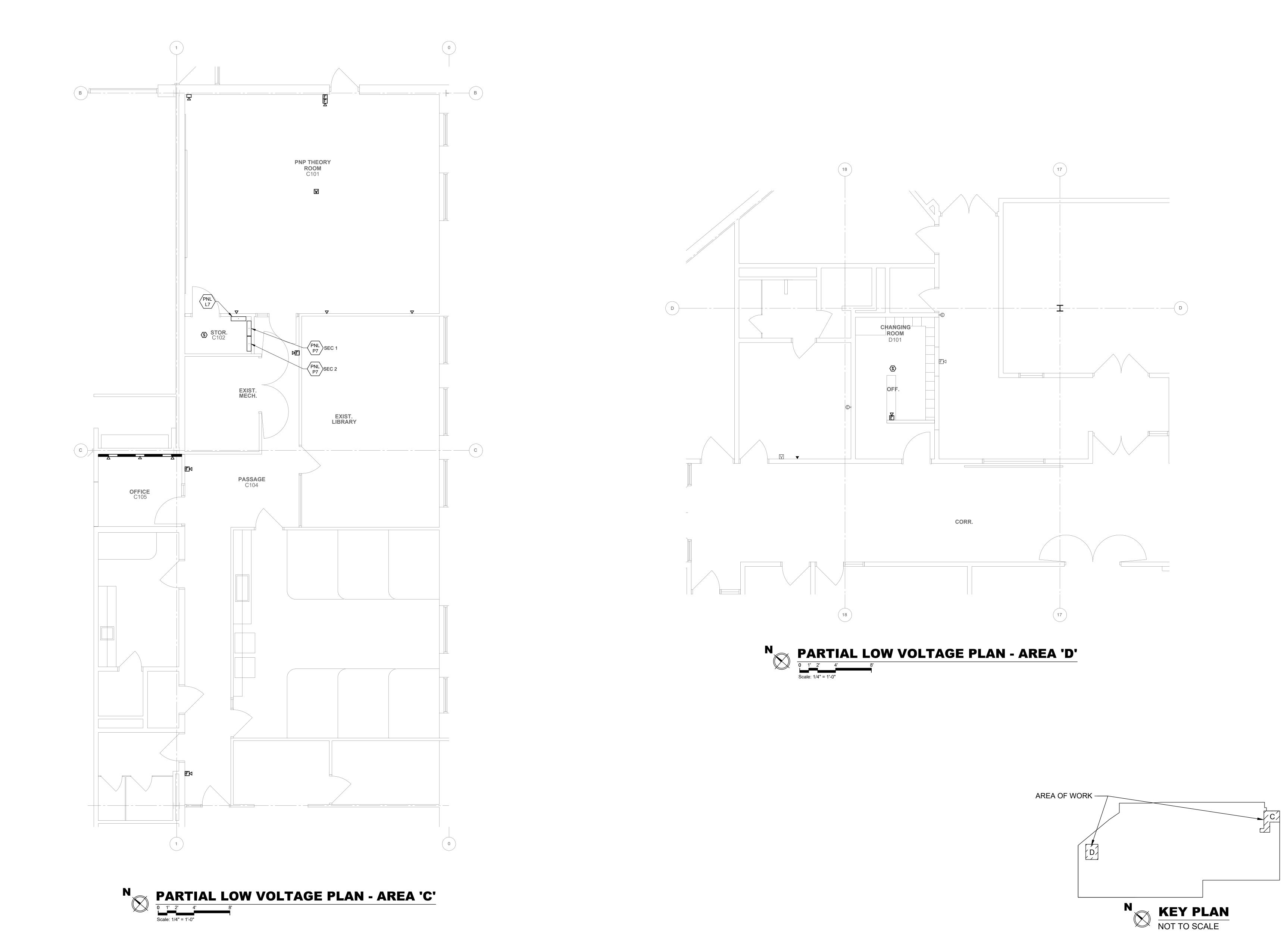


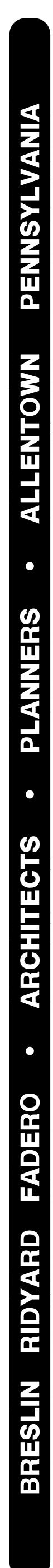


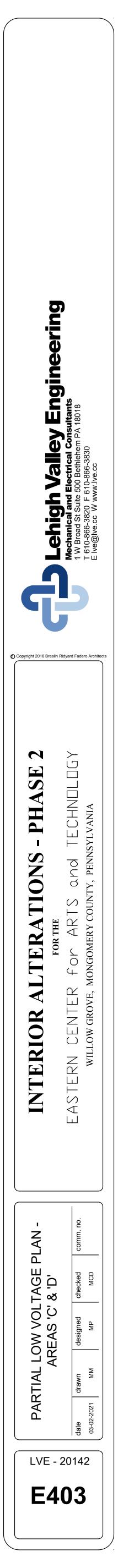
0 1' 2' 4' Scale: 1/4" = 1'-0"

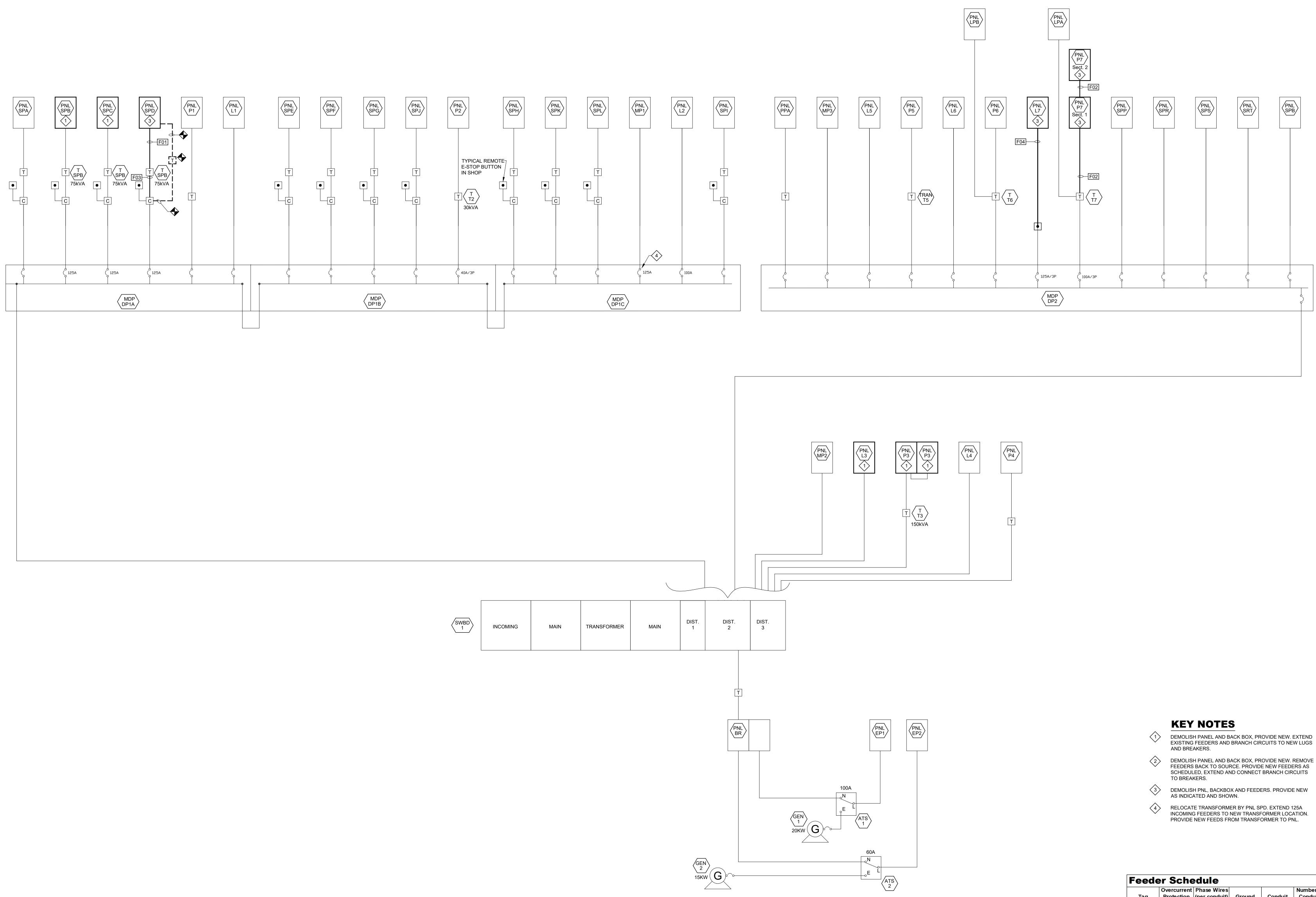












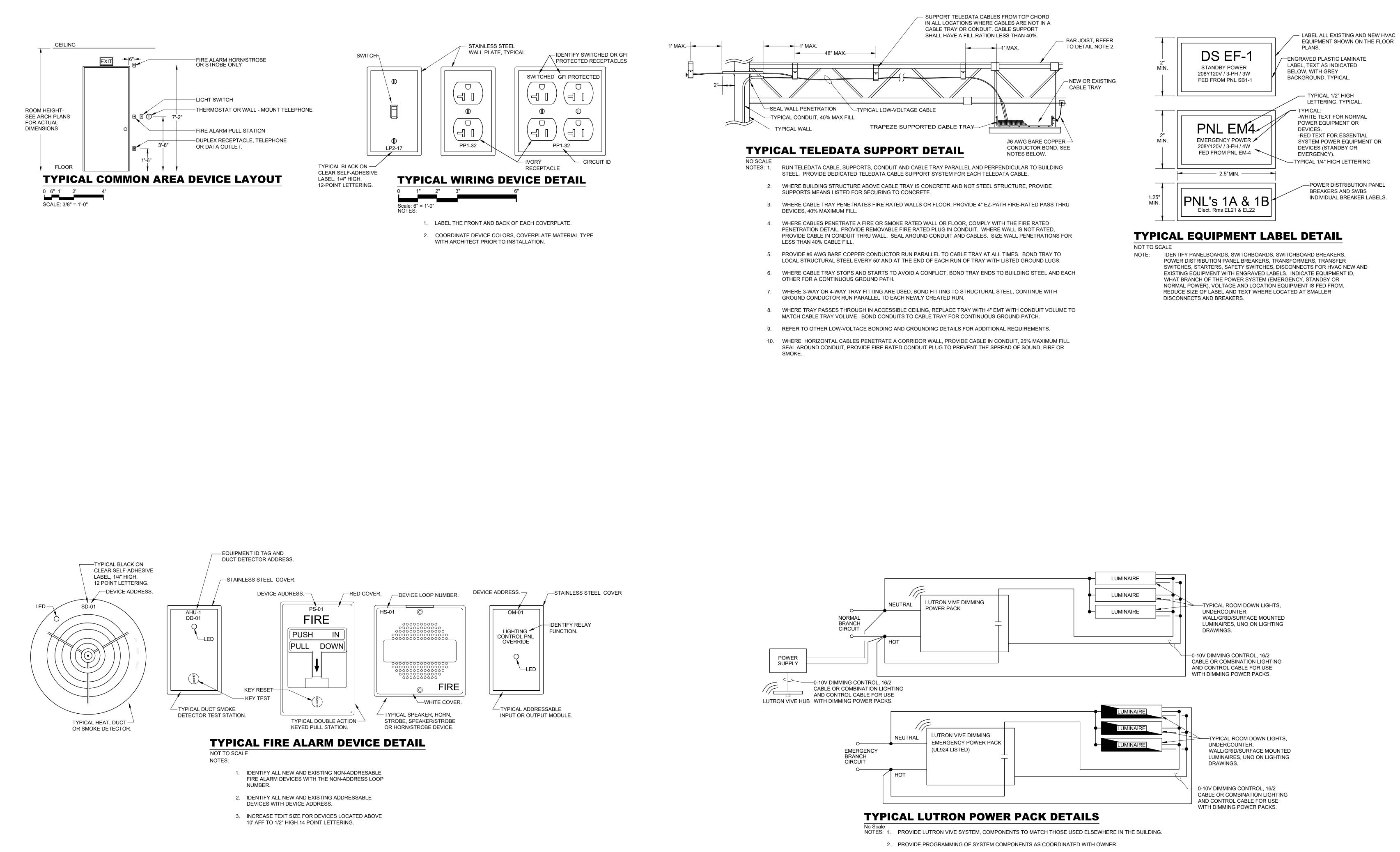
## SINGLE LINE DIAGRAM

NO SCALE

DEMOLISH PANEL AND BACK BOX, PROVIDE NEW. EXTEND EXISTING FEEDERS AND BRANCH CIRCUITS TO NEW LUGS AND BREAKERS.
DEMOLISH PANEL AND BACK BOX, PROVIDE NEW. REMOVE FEEDERS BACK TO SOURCE. PROVIDE NEW FEEDERS AS SCHEDULED, EXTEND AND CONNECT BRANCH CIRCUITS TO BREAKERS.
DEMOLISH PNL, BACKBOX AND FEEDERS. PROVIDE NEW AS INDICATED AND SHOWN.
RELOCATE TRANSFORMER BY PNL SPD. EXTEND 125A INCOMING FEEDERS TO NEW TRANSFORMER LOCATION. PROVIDE NEW FEEDS FROM TRANSFORMER TO PNL.

Feeder Schedule					
		Phase Wires			Number of
Tag	Protection	(per conduit)	Ground	Conduit	Conduits
F01	200	4-3/0	#6	2"	1
F02	200	4-3/0	#6	2"	1
F03	125	4 #1	#6	2"	1
F04	125	4 #1	#6	2"	1





- DRAWINGS.

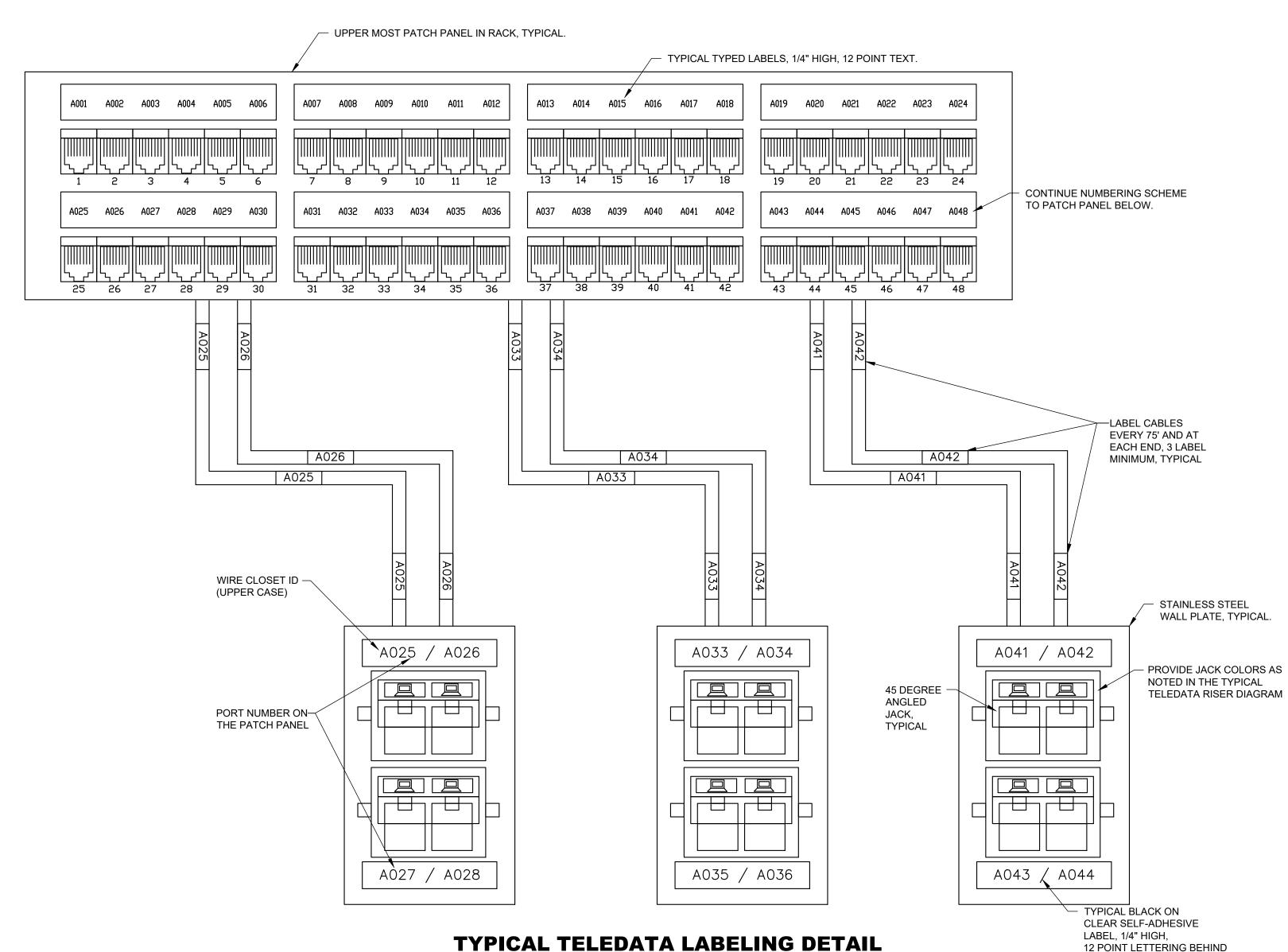
3. PROVIDE DEDICATED POWER PACKS FOR 277V LIGHTING AND 120V LIGHTING. POWER PACKS SHALL BE AT AN ACCESSIBLE LOCATION ABOVE THE CEILING AT MAIN ENTRANCE TO ROOM.

4. COMPLY WITH MANUFACTURER'S RECOMMENDED WIRING REQUIREMENTS.

5. LOCAL EMERGENCY LIGHTING SHALL TURN ON TO 100% OUTPUT UPON LOSS OF NORMAL POWER TO THE LOCAL HUB AND LOCAL NORMAL LIGHTING.

6. INSTALL LUTRON WIRELESS DIMMERS, SWITCHES AND LIGHTING CONTROL DEVICES AS SHOWN ON THE



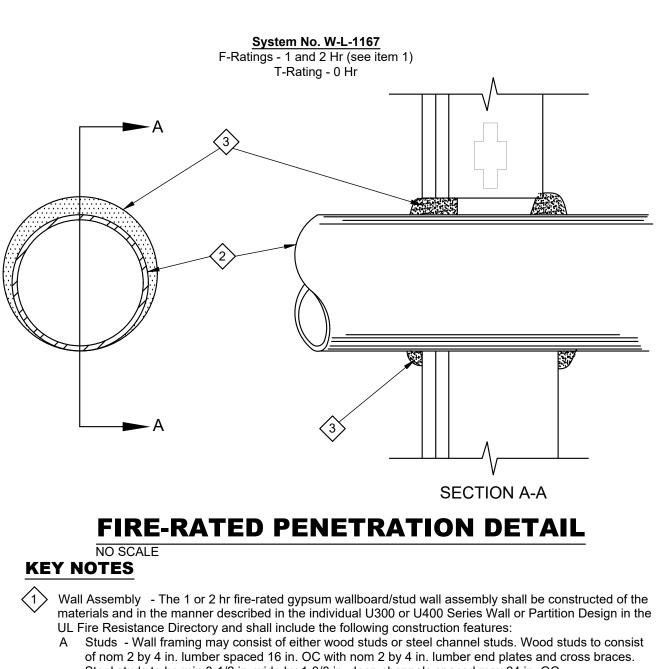


# **TYPICAL TELEDATA LABELING DETAIL**

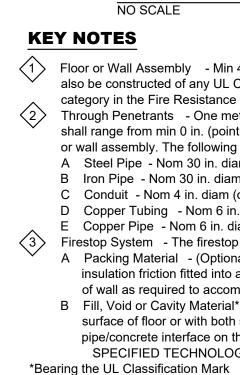
NOT TO SCALE

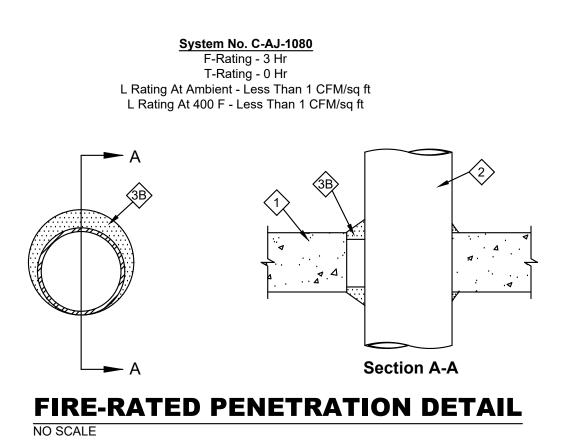
EACH JACK.

- NOTES: 1. FILL UNUSED OPENINGS WITH ELECTRICAL IVORY BLANK MODULES. 2. PATCH PANELS ARE TO BE LABELED IN CONSECUTIVE ORDER STARTING AT RACK LETTER, PORT 001. FACE PLATE SHALL IDENTIFY RACK LETTER AND PORT NUMBER FOR
  - 3. LABELING SCHEME SHOWN IS AN EXAMPLE. PROVIDE LABELING OF TELEDATA CABLES. PATCH PANELS, AND JACKS AS DEFINED BY OWNER IN WRITING IN A COORDINATION MEETING WITH SCHOOL DISTRICT'S DIRECTOR OF TECHNOLOGY OR OTHER IT STAFF.



- Steel studs to be min 3-1/2 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC. B Gypsum Board\* - The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 14 in. The hourly F Rating of the firestop system is
- equal to the hourly fire rating of the wall assembly in which it is installed. 2 Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 1-3/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used: A Steel Pipe - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe. B Iron Pipe - Nom 12 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
- C Conduit Nom 6 in. diam (or smaller) steel conduit or nom 4 in. diam (or smaller) steel electrical metallic tubing. D Copper Tubing - Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
- Copper Pipe Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe. (3) Fill Void or Cavity Materials\* - Caulk - Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/2 in. diam bead of caulk applied to the penetrant/wallboard interface at the point contact location on both sides of wall. MINNESOTA MINING & MFG CO - FD-150+ \*Bearing the UL Classification Mark





CLEAR PROTECTIVE COVER

Floor or Wall Assembly - Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks\* . Max diam of opening is 32 in. See Concrete Block (CAZT) category in the Fire Resistance Directory for names of manufacturers.

 $\langle 2 \rangle$  Through Penetrants - One metallic pipe, conduit or tubing to be centered within the firestop system. The annular space shall range from min 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

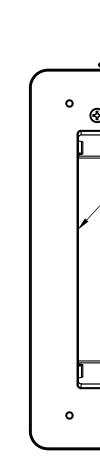
A Steel Pipe - Nom 30 in. diam (or smaller) Schedule 5 (or heavier) steel pipe. B Iron Pipe - Nom 30 in. diam (or smaller) cast or ductile iron pipe.

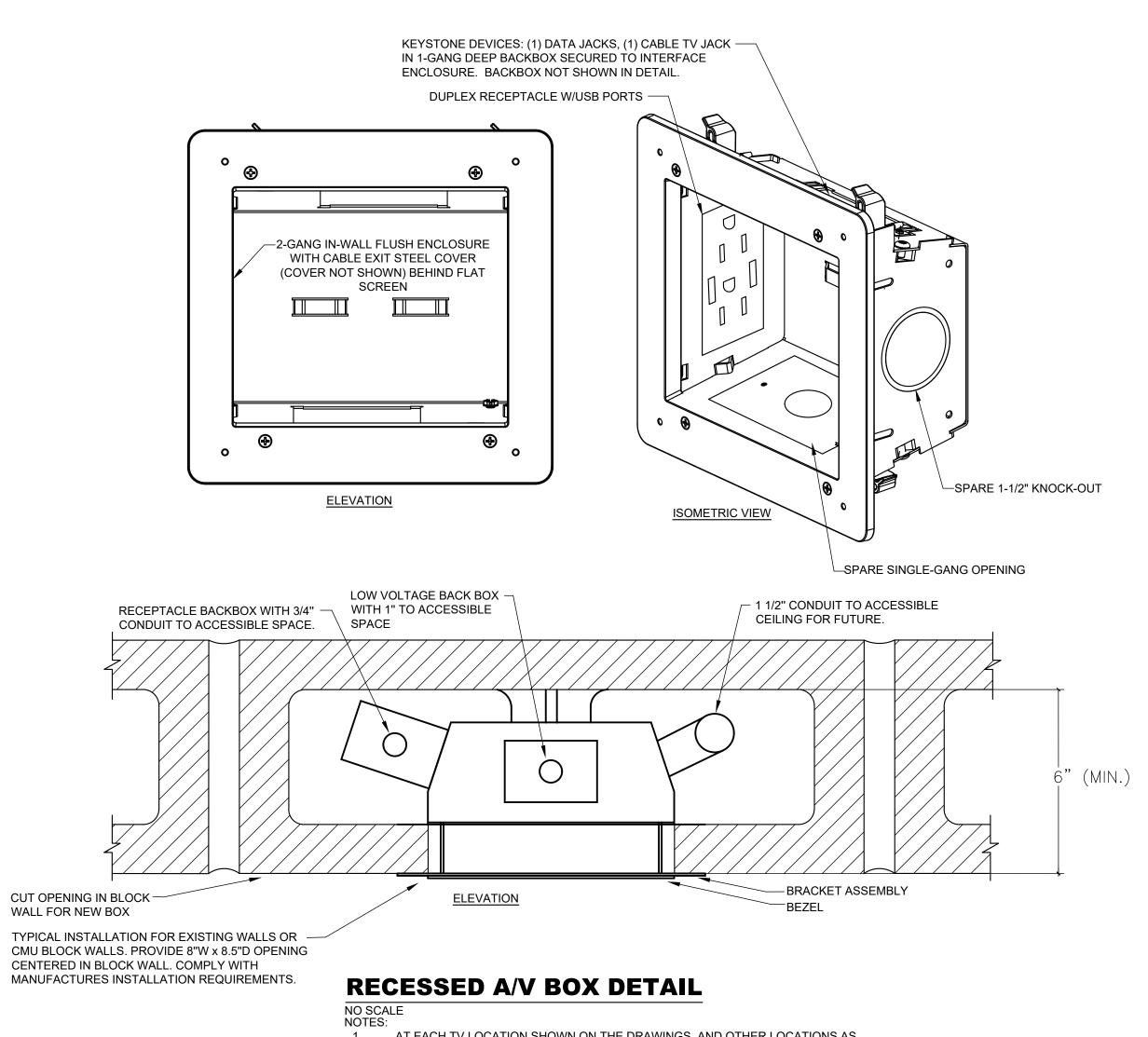
Conduit - Nom 4 in. diam (or smaller) electrical metallic tubing or nom 6 in. diam (or smaller) rigid galv steel conduit. D Copper Tubing - Nom 6 in. diam (or smaller) Type M (or heavier) copper tubing. E Copper Pipe - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

 $\langle 3 \rangle$  Firestop System - The firestop system shall consist of the following:

A Packing Material - (Optional, Not Shown) - Mineral wool batt insulation, polyethylene backer rod or glass fiber batt insulation friction fitted into annular space. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate the required thickness of fill material.

B Fill, Void or Cavity Material\* - Caulk - Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At point contact location, apply min 1/4 in. diam bead of sealant at the pipe/concrete interface on the top surface of the floor or both surfaces of wall. SPECIFIED TECHNOLOGIES INC - SpecSeal 100, 101, 102, 105, 120 or 129 Sealant





CUT OPENING IN BLOCK -WALL FOR NEW BOX TYPICAL INSTALLATION FOR EXISTING WALLS OR CMU BLOCK WALLS. PROVIDE 8"W x 8.5"D OPENING CENTERED IN BLOCK WALL. COMPLY WITH

- 1. AT EACH TV LOCATION SHOWN ON THE DRAWINGS, AND OTHER LOCATIONS AS NOTED, PROVIDE THE netSELECT FLAT PANEL CONNECTION 2-GANG RECESSED ENCLOSURE, WITH FLUSH COVER, BY HUBBELL, OR APPROVED EQUAL.
- EACH FLAT SCREEN INTERFACE SHALL BE PROVIDED WITH A MINIMUM OF A DUPLEX RECEPTACLE W/USB POWER PORTS, 1 DATA JACKS, 1 CABLE TV JACK FOR TELEVISION OR MESSAGE BOARD, UNLESS ADDITIONAL DEVICES ARE NOTED ON THE DRAWINGS.
- LOCATE BOX BEHIND EQUIPMENT OR DISPLAYS, LOCATION SHALL ALLOW FOR 3. ACCESSIBILITY AND BE COORDINATED WITH EQUIPMENT OR DISPLAY SUPPORT SYSTEM COMPONENTS.
- LOCATION OF ENCLOSURE SHALL BE APPROVED BY THE OWNER AND ARCHITECT, IN THE FIELD FOR EACH LOCATION, IN ADVANCE OF THE ROUGH-IN FOR THE INTERFACES.
- COVER AND FLANGE SHALL BE CUSTOM PAINTED TO MATCH THE SURFACE IN WHICH IT IS MOUNTED.



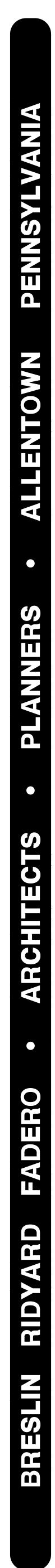
BR Sec 2 480 Y/277V, 3Ø, 4W Bc	oiler Room	SPD 208 Y/120V, 3Ø, 4W	Receiving
43       3       100       6000       Shop Compressors       6180       Chiller Control       180       2         45       -       -       6000       -       6180       Recp-Rooftop GFI       180       2         47       -       -       6000       -       6581       Air Curtain ACH-1       581       2         49       3       50       4980       ATS-2 Panel EP2       5561       -       581         51       -       -       4900       -       5481       -       581         53       -       -       4680       Spare       2       2       2       551       -       581       2         55       1       20       180       Recp-Auto Drain       180       Spare       2       2         57       1       20       Spare       0       Spare       2       2         61       1       20       Spare       0       Spare       2       2         63       1       20       Spare       0       Spare       2       2         65       1       20       Spare       0       Spare       2       2	CircuitizePolesNum.201442014620348505220154201562016620166201662017220177420178201782018020184	Circuit         Num.         Poles         Size         Load (VA)         Description           1         3         100         4797         Bus Duct         1           3         -         -         4797         Bus Duct         1           3         -         -         4797         -         1           5         -         -         4797         -         1           7         1         20         360         Recp-Shop Wall         1           9         1         20         540         Recp-Shop Wall         1           11         1         20         0         Spare         1           13         2         20         0         Spare         1           15         -         -         0         -         1           17         1         20         1080         Recp-Receiving Wall         1           19         1         20         1440         Recp-IT Work Room         23         1         20         1260         Recp-IT Work Room           25         1         20         1000         Motorized Overhead Doors         27         1         20         <	A         B         C         Description         Load (VA)         Size         Poles         Num.           5337         Recp-Shop Wall         540         20         1         2           5337         Recp-Shop Wall         540         20         1         4           5337         Recp-Shop Wall         540         20         1         4           5337         Recp-Shop Wall         720         20         1         4           720         Recp-Receiving Wall         360         20         1         8           720         Recp-Receiving Wall         360         20         1         10           540         Spare         0         20         1         10           0         Spare         0         20         1         10           0         Spare         0         20         1         14           1440         Spare         0         2         20         1         24           1440         Spare         0         20         1         24         212           1440         Spare         0         20         1         24         212         20
Balanced connected load:       49 A         Existing GE type CCD panelboard         Inspect and tighten all existing connections.         Circuit breaker panelboard       Non-bold text indicates existing breakers and circuits, which may be spare after dem         400A MCB       Bold description and load indicates new circuit and wiring.         NEMA 1 surface enclosure       Bold size and poles indicates new breaker. Remove existing breaker if necessary.         Ground bar       For and size and poles indicates new breaker.		NEMA 1 surface-mounted enclosure	75 A Non-bold text indicates existing circuits, connect to new breaker. <b>Bold description and load</b> indicates new circuit and wiring. <b>Bold size and poles</b> indicates new breaker. Remove existing breaker if necessary. Fed from DP1A thru contactor and T-SPD
	Auto Tech	EP1 208 Y/120V, 3Ø, 4W	Boiler Rm
Circuit	CircuitePolesNum.012014016038 $-$ 10 $-$ 1201140116011801200222 $-$ 240226 $-$ 280230 $-$ 32013401360138	Circuit         Num.         Poles         Size         Load (VA)         Description           1         3         60         2882         PNL EP1B         1           3         -         -         2882         -         1           5         -         -         2882         -         1           7         1         20         90         Em lights shop area exits         1           9         1         20         961         Em lights lobby and corridor         1           11         1         20         961         Em lights lobby and corridor         1           13         1         20         961         Em lights - outdoor         1           15         1         20         961         Em lights - outdoor         1           15         1         20         961         Em lights - outdoor         1           19         3         30         1441         Em feed boiler #2         1         1           21         1441         -         2         2         Prepared Space         2           27         Prepared Space         3         Prepared Space         3         2         Prepar	Emergency system         Circuit           A         B         C         Description         Load (VA)         Size         Poles         Num.           -         1441         30         3         2           -         1441         30         3         2           -         1441         -         4           -         1441         -         6           1051         Em lights shop / corridors         961         20         1         8           11921         Em lights admin / seminar area         961         20         1         10           1646         Em Lights-Secure/Secretarie         685         20         1         14           1646         Em Lights-Comp Lab, Pass         295         20         1         18           1441         Spare         0         20         1         22           1441         Spare         0         20         1         24           0         Prepared Space         -         24         24           0         Prepared Space         -         28         30           1441         O         Prepared Space         -         32         <
41       1       *20       360       Recp-Quad Shop Wall       460       Solenoid valve - air       100       20         43       1       *20       360       Recp-Quad Shop Wall       360       Spare       0       *20         45       1       20       0       Spare       0       Spare       0       *20         47       1       20       0       Spare       0       Spare       0       *20         49       1       20       0       Spare       0       Spare       0       *20         51       1       20       0       Spare       0       Spare       0       *20         53       1       20       0       Spare       0       Spare       0       *20         Frovide engraved equipment label       *       *       0       Spare       0       *20         *Provide GFCl breaker       I8853       16806       17291       *       *       *       *         Balanced connected load:       147 A       147 A       *       *       *       *       *         Circuit breaker panelboard       *       *       *       *       * <t< th=""><td>D     1     44       D     1     46       D     1     48       D     1     50       D     1     52</td><td>Emergency systemICircuit breaker panelboardM100A MLOENEMA 1 surface enclosureEGround barZL2480 Y/277V, 3Ø, 4W</td><td>4137       4618       4323         36 A       Existing GE type NLAB panelboard         nspect and tighten all existing connections.       Non-bold text indicates existing breakers and circuits, which may be spare after demolition.         Bold description and load indicates new circuit and wiring.       Bold size and poles indicates new breaker. Remove existing breaker if necessary.         48" maximum height for new backbox       Fed from 25kVA GEN -1 thru ATS</td></t<>	D     1     44       D     1     46       D     1     48       D     1     50       D     1     52	Emergency systemICircuit breaker panelboardM100A MLOENEMA 1 surface enclosureEGround barZL2480 Y/277V, 3Ø, 4W	4137       4618       4323         36 A       Existing GE type NLAB panelboard         nspect and tighten all existing connections.       Non-bold text indicates existing breakers and circuits, which may be spare after demolition.         Bold description and load indicates new circuit and wiring.       Bold size and poles indicates new breaker. Remove existing breaker if necessary.         48" maximum height for new backbox       Fed from 25kVA GEN -1 thru ATS
10kA SCCR       Bold size and poles indicates new breaker. Remove existing breaker if necessary.         Ground bar       Fed from DP1A thru con	itactor and T-SPB	CircuitNum.PolesSizeLoad (VA)Description11201109Lights - Automotive 12131201109Lights - Pro Serv 118	ABCDescriptionLoad (VA)SizePolesNum.2217Lights - Automotive 121110920122217Lights - Pro Serv Theory11092014
Circuit         Num.         Poles         Size         Load (VA)         Description         A         B         C         Description         Load (VA)         S           1         3         100         2402         Bus Duct         Drill Press         961         1           3         -         -         2402         -         -         961         1           5         -         -         2402         -         -         961         1           7         1         20         961         Recp-Shop Wall         1921         Recp-Shop Wall         961         1           9         1         20         961         Recp-Shop Wall         1921         Recp-Shop Wall         961         1           11         1         20         961         Recp-Shop Wall         1921         Recp-Shop Wall         961         1           13         1         20         961         Recp-Shop Wall         1921         Recp-Shop Wall         961         1           15         1         20         961         Recp-Shop Wall         1921         Recp-Shop Wall         961         1           17         1         20	Circuit         Size       Poles       Num.         20       3       2         -       -       4         -       -       6         20       1       18         20       1       14         20       1       14         20       1       18         20       1       24         20       1       28         20       1       30         20       1       32         20       1       34         20       1       34	5       1       20       1109       Lights - Con Bay 133         7       1       20       1109       Lights - Masonry 136         9       1       20       1109       Lights - Stor. Office, Tool 136, 137         11       1       20       1109       Lights - Storage, Office Tool         13       1       20       1109       Lights - Storage, Office Tool         15       1       20       1109       Lights - Mechanical Rm 120         17       1       20       1109       Lights - Automotive computer lat         19       1       20       3500       VAV-1-3, VAV-1-4         21       1       20       1658       Lights-Comp,Health,Theory         23       1       20       0       Spare         25       1       20       0       Spare         27       1       20       0       Spare         33       1       20       0       Spare         33       1       20       0       Spare         33       1       20       0       Spare         37       1       20       0       Spare         39       1       20	2217       Lights - Receiving area       1109       20       1       12         2217       Lights - Small Engines       1109       20       1       14         2217       Ext lighting - wall packs - West       1109       20       1       16         2217       Ext lighting - wall packs - West       1109       20       1       16         2217       Ext lighting - wall packs - North       1109       20       1       18         6500       VAV-1-1, VAV-1-2       3000       20       1       22         2604       Lights-Receiv,IT Work, Pass       946       20       1       22         0       Spare       0       20       1       24         0       Spare       0       20       1       28         0       Spare       0       20       1       30         0       Spare       0       20       1       32         0       Spare       0       20       1       32         0       Spare       0       20       1       34         0       Spare       0       20       1       38         0       Spare       0
39         1         20         0         Spare         0         Spare         0         2	20         1         38           20         1         40           20         1         42	Circuit breaker panelboard Hinged door-in-door cover 100A MLO NEMA 1 surface-mounted enclosure	Existing GE type TED panelboardInspect and tighten all existing connections.Non-bold text indicates existing circuits, connect to new breakers.Bold description and load indicates new circuit and wiring.
6183     4682     5061       Balanced connected load:     44 A		14kA SCCR Ground bar	<b>Bold size and poles</b> indicates new breaker. Remove existing breaker if necessary. Fed from DP1C-20
Circuit breaker panelboard         Hinged door-in-door cover         200A MCB         NEMA 1 surface-mounted enclosure         Bold description and load indicates new circuit and wiring.		L3 480 Y/277V, 3Ø, 4W	Mech 120
10kA SCCR         Bold size and poles indicates new breaker. Remove existing breaker if necessary.           Ground bar         State and poles indicates new breaker. Remove existing breaker if necessary.	Fed from DP1-A	Circuit         Num.         Poles         Size         Load (VA)         Description           1         1         20         2217         Lights-Welding Shop Rm 117           3         1         20         2217         Lights-Welding Shop Rm 117           5         1         20         2217         Lights-Welding Shop Rm 117           5         1         20         2217         Lights-Student Hall           7         1         20         2217         Lights-Admin Office           9         1         20         2217         Lights-Admin Office           11         1         20         2217         Lights-Lobby           13         1         20         2217         Lights-Velding Booth           15         1         20         2000         VAV12-5           17         1         20         2000         Vav-12-1, VAV-12-2           19         1         20         2500         VAV12-5           21         1         20         500         RCP-1 Heating Panel Sec A11           23         Prepared Space         27         Prepared Space         27           31         Prepared Space         33         Prepar	00Prepared Space2400Prepared Space2600Prepared Space2800Prepared Space3000Prepared Space3200Prepared Space3400Prepared Space3600Prepared Space3800Prepared Space4000Prepared Space42169321686812180

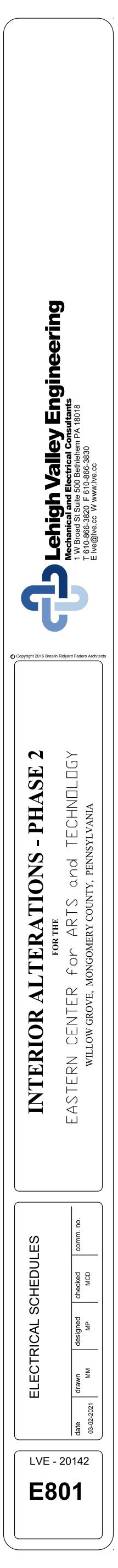
<b>7</b>		480	Y/277V, 3Ø, 4W	· · · · ·	I		1				
uit m. Pole	20	2217	Description Lights - Rm 102 Area	A 2217	в	С	Description Lights - Nursing Area	Load (VA)	20	1	s
	20 20 20	2217 2217 0	Lights - Nursing Area Lights - Mechanical Rm 164.2		2217	2217	Spare Spare		20 15	1	$\downarrow$
1 1	20 20	0 3000	Spare VAV-18-6 Prepared Space	0	3000	674	- - Lights-PNP Theory,Passage	671	- - 20	- - 1	
<u>;</u>	-		Prepared Space Prepared Space Prepared Space	0	0	071	Prepared Space Prepared Space		20		
			Prepared Space Prepared Space	0		0	Prepared Space Prepared Space				
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7 9			Prepared Space Prepared Space	0	0		Prepared Space Prepared Space				
			Prepared Space	2217	5217	2888	Prepared Space				
A MLO	er panelb		Balanced connected load	: Existing GE Inspect and Non-bold tex Bold descri	12 <i>A</i> <b>type NHB p</b> tighten all exi t indicates exi ption and lo	A <b>anelboard</b> isting conne xisting brea <b>ad</b> indicate		·		tion. Fed	fro
2		208	Y/120V, 3Ø, 4W						Μ	ech	,
uit											(
n. Pole	20	0	Description Recp - montco bay bath	<b>A</b>	В		Description Recp - PRT tool rm	Load (VA)	Size 20	Poles	;
1	20 20	0	Recp - PRT bath Recp - welding theory		0	0	Recp - PRT WLD office Recp - Const tool and storage	0	20 20	1	+
1	20 20	600 600	Recp - con bath Recp - con mas office	1201	1201		Recp - cont theory Recp - corridor and mech rm	600 600	20 20	1	╁
1 3 1	20 20	600 600	Lights - Bathroom EF - con bath	1201			UV - Warehouse UV - const	600 600	20 20	1	╁
5 1 7 1	20 20	600 600	EF - con shop UV-5 - welding		1201	1201	UH at garage door Recp rm 122	600 600	20 20	1	+
) 1	20 20	600 600	Spare Spare	1201	1201		Existing Air control panel	600 600	20 20	1 1	Ӈ
3 2 ;	60	1801 1801	Recp- small engines Recp- small engines	3002			Cage panel	1201 1201	40 -	2	┦
· 1 ) 1	20 20	600 600	Recp-Rm 119 Existing		1201		AH 9+10 Control Panel AH 6 Control Panel	600 600	20 20	1	+
1 3 1	20 20	600 600	Existing Existing	1201	1201		AH 4 Control Panel AH-4 Control Panel	600 600	20 20	1	+
5 1 7 1	20 20	0	Spare Spare	901		901	Auto Computer Rm A/c Auto Computer Rm A/c	901 901	30	2	+
) 1   1	20 20	0	Spare Spare		0		Spare Spare	0	20 20	1	+
-		pment label naximum en	closure size	8706	6004	7506					
ed door- A MCB IA 1 sur A SCCR Ind bar	in-door co	nted enclos		Non-bold tex Bold descri Bold size a	t indicates ex ption and lo	ad indicate	uits, connect to new breaker. is new circuit and wiring. breaker. Remove existing break	Fed from D	DP1B-1		
ed door- MCB IA 1 sur SCCR Ind bar <b>3 Se(</b>	face-mour	nted enclos	5 Y/120V, 3Ø, 4W	Non-bold tex Bold descri Bold size a	t indicates ex ption and lo	sting conne kisting circu ad indicate cates new	uits, connect to new breaker. s new circuit and wiring.	Fed from D	•		
ed door- A MCB IA 1 sur A SCCR und bar B Sec uit n. Pole 1 1	face-mour c 1 s Size 20 20 20	nted enclos 208 Load (VA) 1260 900 480	Description Recp-Conf Room A101 Recp-COA	Non-bold tex Bold descri Bold size an A 1740	t indicates ex ption and loand not nd poles indi	sting conne kisting circu ad indicate cates new C	its, connect to new breaker. s new circuit and wiring. breaker. Remove existing break Description Unknown Unknown Recp-COA / COA Bath	Fed from E	Size           20           20           20	Rm	
ad door- MCB A 1 sur SCCR nd bar B Sec uit 1 1 1 1 1 1	in-door co face-mour c 1 es Size 20 20 20 20 20 20	nted enclos 208 Load (VA) 1260 900	Description Recp-Conf Room A101 Recp-COA Recp-COA Recp-COA Recp-COA	Non-bold tex Bold descri Bold size an	t indicates ex ption and loand not nd poles indi	sting conne kisting circu ad indicate cates new C 961	its, connect to new breaker. Is new circuit and wiring. breaker. Remove existing break Description Unknown Unknown Recp-COA / COA Bath Recp-COA Water Cooler Recp-COA	Fed from E	Size           20           20           20           20           20           20           20           20           20           20           20           20           20	Rm Poles 1 1	
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ed door- MCB A 1 sur SCCR nd bar it . Pole 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in-door co face-mour c 1 20 20 20 20 20 20 20 20 20 20 20 20 20	Load (VA) 208 Load (VA) 1260 900 480 480 480 480 480 480 480 4	Description Recp-Conf Room A101 Recp-Office A106 Recp-COA	Non-bold tex Bold descri Bold size and A 1740 961	t indicates ex ption and loa nd poles indi B 1380 961	sting conne kisting circu ad indicate cates new C 961 961 961	its, connect to new breaker. Is new circuit and wiring. breaker. Remove existing break Description Unknown Unknown Recp-COA / COA Bath Recp-COA Water Cooler Recp-COA	Fed from E	Size           20	Poles          1	
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A MCB A MCB A 1 sur A SCCR uit A SCCR a a a a a a a a	in-door co face-mour c 1 20 20 20 20 20 20 20 20 20 20 20 20 20	208         Load (VA)         1260         900         480         900         360         360         360         360         360         360         360         480         480         480         480         360	Description Recp-Conf Room A101 Recp-Office A106 Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Floor Admin Recp-COA Recp-Learn Cent A120 Feed-thru to PNL P3 sect. 2 Balanced connected load	Non-bold tex Bold descri Bold size at A 1740 961 961 961 961 961 961 961 961 961 961	t indicates ex ption and loa nd poles indi B 1380 961 961 961 961 961 961 961 961	sting connectisting circulad indicate cates new	itis, connect to new breaker. s new circuit and wiring. breaker. Remove existing break Description Unknown Recp-COA / COA Bath Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Rm 145 Recp-Rm 145 Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA COA COA Recp-Photo Bath Recp-Math Rooms Bus Duct Above Math - - Recp-File Storage, Vest Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Spare Spare Spare kers and circuits, which may be s new circuit and wiring. breaker. Remove existing break	Fed from E	DP1B-1 ech Size 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	
ed door-         A MCB         IA 1 sur         A SCCR         ind bar         3 Sec         uit         n.         1 <td< td=""><td>in-door co face-mour c 1 20 20 20 20 20 20 20 20 20 20 20 20 20</td><td>208         Load (VA)         1260         900         480         900         360         360         360         360         360         360         360         480         480         480         480         360</td><td>Y/120V, 3Ø, 4W      Description      Recp-Conf Room A101      Recp-OA      Recp-COA      Recp-COA      Recp-COA      Recp-COA      Recp-Floor Admin      Recp-COA      Recp-CoA</td><td>Non-bold tex Bold descri Bold size at A 1740 961 961 961 961 961 961 961 961 961 961</td><td>t indicates exption and loading poles indicates expected at a second structure at a seco</td><td>sting connectisting circulad indicate cates new</td><td>itis, connect to new breaker. s new circuit and wiring. breaker. Remove existing break Description Unknown Unknown Recp-COA / COA Bath Recp-COA Water Cooler Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Rm 145 Recp-Rm 145 Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA COA Recp-Photo Bath Recp-Math Rooms Bus Duct Above Math - - Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Spare Spare Spare Spare</td><td>Fed from L         Load (VA)         480         6         9         0<td>DP1B-1 ECh Size 20 20 20 20 20 20 20 20 20 20</td><td>Poles  Poles  Poles  1  1  1  1  1  1  1  1  1  1  1  1  1</td><td></td></td></td<>	in-door co face-mour c 1 20 20 20 20 20 20 20 20 20 20 20 20 20	208         Load (VA)         1260         900         480         900         360         360         360         360         360         360         360         480         480         480         480         360	Y/120V, 3Ø, 4W      Description      Recp-Conf Room A101      Recp-OA      Recp-COA      Recp-COA      Recp-COA      Recp-COA      Recp-Floor Admin      Recp-COA	Non-bold tex Bold descri Bold size at A 1740 961 961 961 961 961 961 961 961 961 961	t indicates exption and loading poles indicates expected at a second structure at a seco	sting connectisting circulad indicate cates new	itis, connect to new breaker. s new circuit and wiring. breaker. Remove existing break Description Unknown Unknown Recp-COA / COA Bath Recp-COA Water Cooler Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Rm 145 Recp-Rm 145 Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA COA Recp-Photo Bath Recp-Math Rooms Bus Duct Above Math - - Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Spare Spare Spare Spare	Fed from L         Load (VA)         480         6         9         0 <td>DP1B-1 ECh Size 20 20 20 20 20 20 20 20 20 20</td> <td>Poles  Poles  Poles  1  1  1  1  1  1  1  1  1  1  1  1  1</td> <td></td>	DP1B-1 ECh Size 20 20 20 20 20 20 20 20 20 20	Poles  Poles  Poles  1  1  1  1  1  1  1  1  1  1  1  1  1	
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Passage A122         Recp-Learn Cent A120         Feed-thru to PNL P3 sect. 2    Balanced connected load    Description          AD Conference Room         Recp-Office A103, A104         Recp-Office A103, A104         Recp-Office A104,</td><td>Non-bold tex Bold descri Bold size at A 1740 961 961 961 961 961 961 961 961 961 961</td><td>t indicates explicit and log and poles indi- B 1380 961 961 961 961 961 961 961 961</td><td>sting connectisting circulad indicate cates new cates ne</td><td>its, connect to new breaker. s new circuit and wiring. breaker. 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Passage A122         Recp-Sec. Passage A122         Recp-Learn Cent A120         Feed-thru to PNL P3 sect. 2    Balanced connected load    Description          AD Conference Room         Recp-Office A103, A104         Recp-Office A103, A104         Recp-Office A104,</td><td>Non-bold tex Bold descri Bold size at A 1740 961 961 961 961 961 961 961 961 961 961</td><td>t indicates explicit and log and poles indi- B 1380 961 961 961 961 961 961 961 961</td><td>sting connectisting circulad indicate cates new cates ne</td><td>its, connect to new breaker. s new circuit and wiring. breaker. 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Passage A122         Recp-Sec. Passage A122         Recp-Learn Cent A120         Feed-thru to PNL P3 sect. 2    Balanced connected load    Description          AD Conference Room         Recp-Office A103, A104         Recp-Office A103, A104         Recp-Office A104,	Non-bold tex Bold descri Bold size at A 1740 961 961 961 961 961 961 961 961 961 961	t indicates explicit and log and poles indi- B 1380 961 961 961 961 961 961 961 961	sting connectisting circulad indicate cates new cates ne	its, connect to new breaker. s new circuit and wiring. breaker. Remove existing break Description Unknown Recp-COA / COA Bath Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Rm 145 Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA COA Recp-Photo Bath Recp-Math Rooms Bus Duct Above Math - - Recp-File Storage, Vest Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Spare Spare Spare Spare Description Unit Heater Attendance - - Spare Recp-Faculty/Copier A111 Recp-Secretaries A117 Recp-Secretaries A117 Recp-Secretaries A117 Recp-Math Rooms Recp-Math Rooms Spare Spare Spare Recp-Math Rooms Recp-Secretaries A112 Spare Spare Recp-Math Rooms Recp-Math Rooms Recp-Secretaries A112 Spare Spare Recp-Math Rooms Recp-Math Rooms Recp-Secretaries A117 Recp-Secretaries A117	Fed from E         Load (VA)         480         6         90         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1441         0         120         720         1260         900         480         900 <t< td=""><td>DP1B-1 ech Size 20 20 20 20 20 20 20 20 20 20</td><td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td></td></t<>	DP1B-1 ech Size 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	
ad door-         MCB         A 1 sur         SCCR         nd bar         I     <	in-door co face-mour c 1 c 1 es Size 20 20 20 20 20 20 20 20 20 20 20 20 20	Image: Product of the second symmetry in the second symmetry	Description Recp-Conf Room A101 Recp-Office A106 Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Floor Admin Recp-COA Recp-Learn Cent A120 Feed-thru to PNL P3 sect. 2 Balanced connected load Conference Room Recp-Office A103, A104 Recp-Office A104, A105 Front LED Sign - Recp-Data Office Recp-Passage A122 Recp-Faculty/Copier A111 Recp-SLC	Non-bold tex Bold descri Bold size at A 1740 961 961 961 961 961 961 961 961 961 961	t indicates ex ption and loa nd poles indi B 1380 961 961 961 961 961 961 961 961	sting connectisting circulad indicate cates new C C 961 961 961 961 961 961 961 961 961 961	its, connect to new breaker. s new circuit and wiring. breaker. Remove existing break Description Unknown Recp-COA / COA Bath Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Rm 145 Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA COA Recp-Photo Bath Recp-Math Rooms Bus Duct Above Math - - Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Spare Spare Spare Description Unit Heater Attendance - - Spare Spare Recp-Faculty/Copier A111 Recp-Secretaries A117 Recp-Secretaries A117 Recp-Secretar	Fed from E         Load (VA)         480         6         5         720         360         360         720         0         0         0         0         1441         1441         1441         1441         1441         1441         1441         1441         1441         1441         1441         1441         1441         1441         1441         1441	DP1B-1 ech Size 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	
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ed door-         MCB         IA 1 sur         SCCR         ind bar         3         3         1	in-door co face-mour c 1 20 20 20 20 20 20 20 20 20 20 20 20 20	Load (VA)         1260         900         480         360         720         720         720         720         720         720         1200         1200         1200         1200         1200         1200         1200         480 <t< td=""><td>Y/120V, 3Ø, 4W      Description      Recp-Conf Room A101      Recp-Office A106      Recp-COA      Recp-COA      Recp-COA      Recp-COA      Recp-Floor Admin      Recp-COA      Recp-Office A103, A104      Recp-Office A104, A105      Front LED Sign      -      Recp-Rasage A122</td><td>Non-bold tex         Bold size at         Bold size at         A         1740         961         1080         11080         11200         1200         1200         1380         961         961         961         961         961         961         961         961         961         961         961         961<!--</td--><td>t indicates ex ption and loa nd poles indi B 1380 961 961 961 961 961 961 961 961</td><td>sting conne (isting circu ad indicate cates new</td><td>bescription Description Unknown Unknown Recp-COA / COA Bath Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Rm 145 Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA Recp-Photo Bath Recp-Math Rooms Bus Duct Above Math Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Spare Spare Spare  Description Unit Heater Attendance Spare Recp-Math Rooms Recp-Math Rooms Recp-Secretaries A112 Recp-Secretaries A117 Recp-Office A121 Recp-Secretaries A117 Recp-Secretaries A114 Recp-Secreta</td><td>Fed from E         Load (VA)         480         0         0         0         0         0         0         0         0         0         0         0         0         1441         1441         1441         0         120         720         0         120         720         480</td><td>bP1B-1 ech Size 20 20 20 20 20 20 20 20 20 20</td><td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td></td></td></t<>	Y/120V, 3Ø, 4W      Description      Recp-Conf Room A101      Recp-Office A106      Recp-COA      Recp-COA      Recp-COA      Recp-COA      Recp-Floor Admin      Recp-COA      Recp-Office A103, A104      Recp-Office A104, A105      Front LED Sign      -      Recp-Rasage A122	Non-bold tex         Bold size at         Bold size at         A         1740         961         1080         11080         11200         1200         1200         1380         961         961         961         961         961         961         961         961         961         961         961         961 </td <td>t indicates ex ption and loa nd poles indi B 1380 961 961 961 961 961 961 961 961</td> <td>sting conne (isting circu ad indicate cates new</td> <td>bescription Description Unknown Unknown Recp-COA / COA Bath Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Rm 145 Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA Recp-Photo Bath Recp-Math Rooms Bus Duct Above Math Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Spare Spare Spare  Description Unit Heater Attendance Spare Recp-Math Rooms Recp-Math Rooms Recp-Secretaries A112 Recp-Secretaries A117 Recp-Office A121 Recp-Secretaries A117 Recp-Secretaries A114 Recp-Secreta</td> <td>Fed from E         Load (VA)         480         0         0         0         0         0         0         0         0         0         0         0         0         1441         1441         1441         0         120         720         0         120         720         480</td> <td>bP1B-1 ech Size 20 20 20 20 20 20 20 20 20 20</td> <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td></td>	t indicates ex ption and loa nd poles indi B 1380 961 961 961 961 961 961 961 961	sting conne (isting circu ad indicate cates new	bescription Description Unknown Unknown Recp-COA / COA Bath Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Rm 145 Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA Recp-Photo Bath Recp-Math Rooms Bus Duct Above Math Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Spare Spare Spare  Description Unit Heater Attendance Spare Recp-Math Rooms Recp-Math Rooms Recp-Secretaries A112 Recp-Secretaries A117 Recp-Office A121 Recp-Secretaries A117 Recp-Secretaries A114 Recp-Secreta	Fed from E         Load (VA)         480         0         0         0         0         0         0         0         0         0         0         0         0         1441         1441         1441         0         120         720         0         120         720         480	bP1B-1 ech Size 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	
ed door-         MCB         IA 1 sur         SCCR         ind bar         I	in-door co face-mour c 1 20 20 20 20 20 20 20 20 20 20 20 20 20	Load (VA)         1260         900         480         360         360         360         360         1200         1200         1200         1200         1200         1200         1200         1200         1200         1200         480	<ul> <li>Y/120V, 3Ø, 4W</li> <li>Description</li> <li>Recp-Conf Room A101</li> <li>Recp-COA</li> <li>Recp-COA</li> <li>Recp-COA</li> <li>Recp-COA</li> <li>Recp-Floor Admin</li> <li>Recp-COA</li> <li>Recp-COA</li> <li>Recp-Floor Admin</li> <li>Recp-COA</li> <li>Recp-Learn Cent A120</li> <li>Recp-Learn Cent A120</li> <li>Feed-thru to PNL P3 sect. 2</li> <li>Balanced connected load</li> <li>Description</li> <li>AD Conference Room</li> <li>Recp-Data Office</li> <li>Recp-Data Office</li> <li>Recp-Passage A122</li> <li>Recp-Faculty Refrigerator</li> <li>Recp-SLC</li> <li>Recp-Faculty Refrigerator</li> <li>Recp-Faculty Refrigerator</li> <li>Recp-SLC</li> <li>Recp-Toilet/Hall A115/A116</li> <li>Admin Bath Lights</li> <li>Ext Fan Photo</li> <li>Recp-Math Rooms</li> <li>Recp-Learn Cent Panel</li> <li>Uistide Lights<!--</td--><td>Non-bold tex Bold descri Bold size at A 1740 961 961 961 961 961 961 961 961 961 961</td><td>t indicates explice and log and poles indi B 1380 961 961 961 961 961 961 961 480 961 1 1 961 1 1 961 1 1 961 1 1 961 1 1 961 1 1 961 1 1 961 1 1 961 1 1 1 961 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>sting conne (isting circu ad indicate cates new 961 961 961 961 961 961 961 961</td><td>bescription Description Unknown Unknown Recp-COA / COA Bath Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Rm 145 Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA COA Recp-Photo Bath Recp-Math Rooms Bus Duct Above Math Recp-Secretaries A112 Recp-Secretaries A117 Re</td><td>Fed from E         Load (VA)         480         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1441         1441         1441         1441         1441         1441     &lt;</td><td>bP1B-1 ech Size 20 20 20 20 20 20 20 20 20 20</td><td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td></td></li></ul>	Non-bold tex Bold descri Bold size at A 1740 961 961 961 961 961 961 961 961 961 961	t indicates explice and log and poles indi B 1380 961 961 961 961 961 961 961 480 961 1 1 961 1 1 961 1 1 961 1 1 961 1 1 961 1 1 961 1 1 961 1 1 961 1 1 1 961 1 1 1 1 1 1 1 1 1 1 1 1 1	sting conne (isting circu ad indicate cates new 961 961 961 961 961 961 961 961	bescription Description Unknown Unknown Recp-COA / COA Bath Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Rm 145 Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA COA Recp-Photo Bath Recp-Math Rooms Bus Duct Above Math Recp-Secretaries A112 Recp-Secretaries A117 Re	Fed from E         Load (VA)         480         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         1441         1441         1441         1441         1441         1441     <	bP1B-1 ech Size 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	
ed door-         MCB         IA 1 sur         SCCR         ind bar         I	in-door co face-mour c 1 20 20 20 20 20 20 20 20 20 20 20 20 20	Load (VA)         1260         900         480	Y/120V, 3Ø, 4W         Description         Recp-Conf Room A101         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-Floor Admin         Recp-COA         Recp-Floor Admin         Recp-COA         Recp-Floor Admin         Recp-COA         Recp-Math Rooms         Recp-Sec. Passage A122         Recp-Sec. Passage A122         Recp-Sec. Passage A122         Recp-Detearn Cent A120         Feed-thru to PNL P3 sect. 2    Balanced connected load    Description <tbod></tbod>	Non-bold tex         Bold size at         Bold size at         A         1740         961         1080         11080         11200         1200         1200         1380         961         961         961         961         961         961         961         961         961         961         961         961 </td <td>t indicates explice and log and poles indi B 1380 961 961 961 961 961 961 961 1 961 1 961 1 961 1 961 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>sting conne (isting circu ad indicate cates new 961 961 961 961 961 961 961 961</td> <td>bescription Description Unknown Unknown Unknown Recp-COA / COA Bath Recp-COA Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA COA Recp-Math Rooms Recp-Math Rooms Bus Duct Above Math Recp-File Storage, Vest Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Spare Spare Spare Description Unit Heater Attendance Spare Recp-Math Rooms Recp-Got A111 Recp-Secretaries A112 Recp-Secretaries A117 Recp-Secretaries A117 Recp-Secretaries A117 Lobby Planter Recessed Exh fan Edhrooms Cabinet Heaters Lobby Recp-COA Office Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA Office Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA Office Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA Office Exh fan COA Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA Office Exh fan COA Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA Office Exh fan COA Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA COA Co</td> <td>Fed from E         Load (VA)         480         0         0         0         0         0         0         0         0         0         0         0         0         120         720         1441         1441         1441         1441         1441         1441         1441         1441&lt;</td> <td>DP1B-1 CCN Size 20 20 20 20 20 20 20 20 20 20</td> <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td></td>	t indicates explice and log and poles indi B 1380 961 961 961 961 961 961 961 1 961 1 961 1 961 1 961 1 1 1 1 1 1 1 1 1 1 1 1 1	sting conne (isting circu ad indicate cates new 961 961 961 961 961 961 961 961	bescription Description Unknown Unknown Unknown Recp-COA / COA Bath Recp-COA Recp-Rm 145 Recp-Floor Admin COA Assistant Director COA COA Recp-Math Rooms Recp-Math Rooms Bus Duct Above Math Recp-File Storage, Vest Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Recp-Secretaries A112 Spare Spare Spare Description Unit Heater Attendance Spare Recp-Math Rooms Recp-Got A111 Recp-Secretaries A112 Recp-Secretaries A117 Recp-Secretaries A117 Recp-Secretaries A117 Lobby Planter Recessed Exh fan Edhrooms Cabinet Heaters Lobby Recp-COA Office Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA Office Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA Office Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA Office Exh fan COA Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA Office Exh fan COA Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA Office Exh fan COA Exh fan Bathrooms Cabinet Heaters Lobby Recp-COA COA Co	Fed from E         Load (VA)         480         0         0         0         0         0         0         0         0         0         0         0         0         120         720         1441         1441         1441         1441         1441         1441         1441         1441<	DP1B-1 CCN Size 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	
led door-         A MCB         MA 1 sur         A SCCR         Ind bar         B Sec         uit         n.       Pole         1       1         1       1         1       1         2       1         2       1         1       1         2       1         2       1         3       1         7       1         9       1         1       1         3       1         7       1         9       1         1       1         1       1         2       1         3       1         7       1         9       1         10       1         1       1         1       1         1       1         1       1         1       1         1       1         2       1         1       1         2       1         1       1	in-door co face-mour 2 1 20 20 20 20 20 20 20 20 20 20 20 20 20	Load (VA)         1260         900         480         1200         1200         1200         1200         1200         1200         1200         1200         1200         1200         480	b       Y/120V, 3Ø, 4W         Description       Recp-Conf Room A101         Recp-COA       Recp-COA         Recp-COA       Recp-COA         Recp-Floor Admin       Recp-Floor Admin         Recp-COA       Recp-COA         Recp-Floor Admin       Recp-COA         Recp-Floor Admin       Recp-COA         Recp-COA       Recp-COA         Recp-Office A107       Recp-Math Rooms         Recp-Office A107       Recp-Office A107         Recp-Sec. Passage A122       Recp-Learn Cent A120         Feed-thru to PNL P3 sect. 2       Recp-Learn Cent A120         Feed-thru to PNL P3 sect. 2       Balanced connected load         Description       AD Conference Room         AD Conference Room       Recp-Data Office         Recp-Data Office       Recp-Faculty/Copier A111         Recp-SLC       Recp-Faculty/Copier A111         Recp-SLC       Recp-Secret	Non-bold tex         Bold size at         Bold size at         A         1740         961         1080         1080         11080         1200         1200         1380         1380         961         961         961         961         961         961         961         961         961         961         961         961         961 </td <td>t indicates explice and log and poles indi B 1380 961 961 961 961 961 961 961 961</td> <td>sting conne (isting circu ad indicate cates new 961 961 961 961 961 961 961 961</td> <td>bits, connect to new breaker.         s new circuit and wiring.         breaker. Remove existing break         Description         Unknown         Unknown         Recp-COA / COA Bath         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-Rm 145         Recp-Floor Admin         COA         Assistant Director         COA         Recp-Photo Bath         Recp-Math Rooms         Bus Duct Above Math         -         -         Recp-Secretaries A112         Recp-Secretaries A112         Spare         Spare         Spare         Spare         Spare         Spare         Spare         Recp-Student Learn A120         Recp-Secretaries A117         Recp</td> <td>Fed from L         Load (VA)         480         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         120         720         0         120         720      &lt;</td> <td>be 1B-1 ech Size 20 20 20 20 20 20 20 20 20 20</td> <td>Poles 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td></td>	t indicates explice and log and poles indi B 1380 961 961 961 961 961 961 961 961	sting conne (isting circu ad indicate cates new 961 961 961 961 961 961 961 961	bits, connect to new breaker.         s new circuit and wiring.         breaker. Remove existing break         Description         Unknown         Unknown         Recp-COA / COA Bath         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-COA         Recp-Rm 145         Recp-Floor Admin         COA         Assistant Director         COA         Recp-Photo Bath         Recp-Math Rooms         Bus Duct Above Math         -         -         Recp-Secretaries A112         Recp-Secretaries A112         Spare         Spare         Spare         Spare         Spare         Spare         Spare         Recp-Student Learn A120         Recp-Secretaries A117         Recp	Fed from L         Load (VA)         480         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         120         720         0         120         720      <	be 1B-1 ech Size 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	
led door-         A MCB         MA 1 sur         A SCCR         Ind bar         B Sec         uit         n.       Pole         1       1         1       1         1       1         1       1         1       1         1       1         2       1         1       1         2       1         1       1         2       1         3       1         7       1         3       1         7       1         1       1         3       1         7       1         9       1         1       1         1       1         2       1         1       1         1       1         1       1         2       1         1       1         2       1         1       1         2       1         1       1         2       1	in-door co face-mour c 1 20 20 20 20 20 20 20 20 20 20 20 20 20	Load (VA)         1260         900         480	b Y/120V, 3Ø, 4W Description Recp-Conf Room A101 Recp-COA Recp-COA Recp-COA Recp-COA Recp-COA Recp-Floor Admin Recp-Floor Admin Recp-COA Recp-Office A107 Recp-Coffice A107 Recp-Learn Cent A120 Feed-thru to PNL P3 sect. 2 Balanced connected load Conference Room Recp-Office A103, A104 Recp-Coffice A104, A105 Front LED Sign - Recp-Data Office Recp-Passage A122 Recp-Faculty/Copier A111 Recp-SLC Recp-Faculty/Copier A111 Recp-SLC Recp-Faculty/Copier A111 Recp-SLC Recp-Toilet/Hall A115/A116 Admin Bath Lights Exh fan Welding Ex Fan Photo Recp-Mech Room Lights-Lobby Vestibule Outside Lights AHU 11 Controls Recp-Secretaries A112 Recp-Secretaries A112	Non-bold tex         Bold size at         Bold size at         A         1740         961	t indicates explice and log and poles indi B 1380 961 961 961 961 961 961 961 1 961 1 961 1 961 1 961 1 1 1 1 1 1 1 1 1 1 1 1 1	sting conne (isting circu ad indicate cates new 961 961 961 961 961 961 961 961	bits, connect to new breaker.         s new circuit and wiring.         breaker. Remove existing break         Description         Unknown         Unknown         Recp-COA / COA Bath         Recp-COA         Recp-Photo Admin         COA         COA         Recp-Photo Bath         Recp-Math Rooms         Bus Duct Above Math         -         -         Recp-Secretaries A112         Recp-Secretaries A112         Recp-Secretaries A112         Recp-Secretaries A112         Recp-Secretaries A117	Fed from L         Load (VA)         480         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         120         720         0         120         720      <	demolif Size 20 20 20 20 20 20 20 20 20 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1	

Circuit breaker panelboard Hinged door-in-door cover Circuit breaker panelboard 200A MLO

200A MLO NEMA 1 surface enclosure 22kA SCCR Ground bar Non-bold text indicates existing breakers and circuits, which may be spare after demolition. Bold description and load indicates new circuit and wiring. Bold size and poles indicates new breaker. Remove existing breaker if necessary.

SWBD 1





Гуре	Manuf.	Model	Mounting	Description	Source	Color	CRI	Lumens	Lumen Maint	Driver	Voltage	VA	w
<u>, , , , , , , , , , , , , , , , , , , </u>	KB Lighting	LEDPNL2X4-35W-5KMV-PRM-CP	mounting	Becomption				Lamens	Marit	Diriver	Voltage	•	
A			Recessed	2'x4' Edge-Lit flat panel, furnished by Owner, installed by Electrical Contractor, earthquake clips, 138LPW, DLC premium	LED	5000K	80	4836	L70 /60,000H	0-10V	UNV	44	35
42	KB Lighting	LEDPNL2X4-35W-5KMV-PRM-CP	Recessed	2'x2' Edge-Lit flat panel, furnished by Owner, installed by Electrical Contractor, earthquake clips, 138LPW, DLC premium	LED	5000K	80	4836	L70 /60,000H	0-10V	UNV	44	35
B	KB Lighting	2X4RDI-LED-2X4-4480-FR	Recessed	2'X4' direct-indirect center perforated center basket with frosted lens, furnished by Owner, installed by Electrical Contractor	LED	3000K	80	4480	L70 /60,000H	0-10V	UNV	30	24
32	KB Lighting	2X2RDI-LED-2X2-4350-FR	Recessed	2'X2' direct-indirect center perforated center basket with frosted lens, furnished by Owner, installed by Electrical Contractor	LED	5000K	80	4350	L70 /60,000H	0-10V	UNV	30	24
	Gotham	EVO4											
c			Recessed Downlight	4" Recessed Downlight, Wide Distribution	LED	5000K	85	2000	L80 /60,000	0-10V	MVOLT	24	19.5
	Gotham	EVO4											
C2			Recessed Downlight	4" Recessed Downlight, Wide Distribution	LED	5000K	85	1000	L80 /60,000	0-10V	MVOLT	11	8.8
	Kenall	MPWUD											
D -			Wall Mount	48" Wall mount patient room fixture, up/down, matte white finish, tunable white color	LED	5000K	82	8940	L70 /80,000	0-10V	120-277V	56	45
	Emergi-lite	Preceptor		Single-faced exit sign, universal mount, black body, aluminum face,									
ea	Lithonia McPhilben	LE series	Surface, universal	die-cast aluminum housing, red lettering, concealed chevron	LED	-	-	-	-	-	UNV	4	4
-	Sure-lites	CX series		knockouts, AC									
	Emergi-lite	Preceptor	<b>.</b>										
EW -	Lithonia McPhilben	LE series	Surface, universal	Single-faced exit sign, universal mount, white die-cast aluminum housing, red lettering, concealed chevron knockouts, AC	LED	-	-	-	-	-	UNV	4	4
	Sure-lites	CX series											
-	Emergi-lite Lithonia	Prestige	Wall/	Floor proximity electric exit sign, 6" lettering, located 12" above the	LED	-	-			-		4	
3A	McPhilben		Surface	floor, aluminum face black body, low-profile, single sided, red legend, field-selectable chevrons, for use in public spaces, AC				-	-		UNV		4
	Sure-lites	Durating											
-	Emergi-lite Everglow	Prestige	Wall/	Floor proximity electric exit sign, 6" lettering, located 12" above the floor, white face and white body, low-profile, single sided, red									
3W	McPhilben		Surface	legend, field-selectable chevrons, for use in classrooms and shops,	LED	-	-	-	-	-	UNV	4	4
	Sure-lites Sure-lites	PHL1RBAPHLS		AC									
+	Lithonia	FILINDAFILS	Wall/	Photoluminescent floor proximity non-electric exit sign, 6" lettering, located 12" above the floor, impact resistant and corrosion resistant	Photolumine								
4 <b>A</b>	McPhilben		Surface	aluminum frame, 25 year life, single sided, red legend, acrylic shield, field-selectable chevrons, non-radioactive and non-toxic	scent	-	-	-	-	-	-	-	-
	Sure-lites Emergi-lite	SLX series			Phosphor-								
	Lithonia	01/ 361163	Wall/	Floor proximity non-electric exit sign, 6" lettering, located 12" above the floor, aluminum frame, 20 year life, single sided, red	coated								
5A	McPhilben		Surface	legend, polycarbonate shield, field-selectable chevrons, for use in public spaces	borosilicate tubes filled	-	-	-	-	-	-	-	-
	Sure-lites Emergi-lite	SLX series			tritium gas Phosphor-								
E \ A /	Everglow		Wall/	Floor proximity non-electric exit sign, 6" lettering, located 12" above the floor, white ABS frame, 20 year life, single sided, red	coated								
5W	McPhilben		Surface	legend, polycarbonate shield, field-selectable chevrons, for use in classrooms and shops	borosilicate tubes filled	-	-	_	-	-	-	-	-
	Sure-lites Finelite	Series 12 LED		4' Linear Suspended, WCB shielding, open top optic, Decorative	tritium gas								
F4			Suspended	end caps, 3 light engines, high light output, double circuit, low- profile ceiling supports and ceiling grid box, ceiling type as shown on Architectural drawings,	LED	3000K	80	2591lm/ft	L90/ 100,000	0-10V	MVOLT	46.5	37
	Finelite	Series 12 LED		8' Linear Suspended, WCB shielding, open top optic, Decorative									
F8 -			Suspended	end caps, 3 light engines, high light output, double circuit, low- profile ceiling supports and ceiling grid box, ceiling type as shown on Architectural drawings,	LED	3000K	80	2591lm/ft	L90/ 100,000	0-10V	MVOLT	92.5	74
	Columbia	Pelaton Highbay		······································									
G		- •	Suspended	24" Suspended Linear LED High bay, integral motion sensor, wide distribution, 1000 Lumens Uplight	LED	5000K	80	12,000	L80 /60,000	0-10V	MVOLT	97.5	78
	Color Kinetics	Profile Gen4											

- 1 -	Sec1		208	Y/120V, 3Ø, 4W						Ν	lech	120
ircui					Legally Requ	ired Standl	by Branch	י 				Circu
t												t
lum.	Poles		<u> </u>	Description	A	В	С	Description	Load (VA)		Poles	Num
1	1	20	554	Recp-Rm 104	1108			Recp-Rm 104	554	20	1	2
3	1	20	554	Recp-Rm 104		1108		Recp-Rm 104	554	20	1	4
5	1	20	554	Exh Fan-Recp-Nursing Lab			1108	Recp-Nursing Office	554	20	1	6
7	1	20	554	Recp-Nursing Office	1108			Recp-Rm 104	554	20	1	8
9	1	20	554	Unit Vent Office Rm104		1108			554	20	1	10
11	1	20	554	Recp-Rm 104			1108	Recp-Rm 104	554	20	1	12
13	1	20	554	Recp-Rm 103 Bath	1108			Recp-Nursing	554	20	1	14
15	1	20	554	Recp-Rm 165		1108		Recp-Nursing	554	20	1	16
17	1	20	554	Recp-Rm 164			1108	Recp-Nursing	554	20	1	18
19	1	20	554	Recp-Library	1108			Nursing Washing Machine	554	20	1	20
21	1	20	900	Recp-PNP Theory C101		1454		Library Comp	554	20	1	22
23	1	20	1080	Recp-PNP Theory C101			1634	Library Comp	554	20	1	24
				Totals	4432	4778	4958	1				
inged olt-on 25A N	door-in- breaker /ICB 1 surfac	door cc s	r panelboard over nted enclosu	re	Bold descrip	tion and loa	isting circ ad indicate	uits, connect to new breaker. es new circuit and wiring. breaker. Remove existing bre	aker if necessa	ITV.		
round	l bar										Fed fro	om D
<b>D</b> 7	Sec2	)	208	Y/120V, 3Ø, 4W								
	0002	-								M	ech	12(
Sire				1/1200, 30, 400	Crit	ical Branch		_		M	ech	120
Circui				1/1200, 30, 400	Crit	ical Branch		]		M	ech	120 Circu
t	Poles	Size		, ,				Description				Circu t
t Num.			Load (VA)	Description	А	ical Branch B	С	Description	Load (VA)	Size	Poles	Circu t Num
t lum. 25	1	20	<b>Load (VA)</b>	<b>Description</b> Lights-Exterior Pole Front		В		<b>Description</b> Range Rm 104	7196			Circu t Num 26
t lum. 25 27	1 1	20 20	Load (VA) 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front	А		С	Range Rm 104 -	7196 7196	<b>Size</b> 50	Poles	Circo t Num 26 28
t 25 27 29	1	20	Load (VA) 0 0	<b>Description</b> Lights-Exterior Pole Front	<b>A</b> 7196	В	С	-	7196 7196 0	<b>Size</b> 50	Poles	Circe t Num 26 28 30
t 25 27 29 31	1 1 2 -	20 20 50 -	Load (VA) 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare	А	<b>B</b> 7196	С	Range Rm 104 - Dryer Nursing -	7196 7196 0 0	<b>Size</b> 50 - 60 -	Poles 2 - 2 - 2	Circu t Num 26 28 30 32
t 25 27 29 31 33	1 1 2 - 1	20 20 50 - 30	Load (VA) 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare	<b>A</b> 7196	В	<b>C</b>	Range Rm 104 - Dryer Nursing - Recp-Rm 165	7196 7196 0 0 0	<b>Size</b> 50 - 60 - 20	Poles 2 - 2 - 1	Circe t Num 26 28 30 32 32
t 25 27 29 31 33 35	1 1 2 - 1 1	20 20 50 - 30 20	Load (VA) 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing	A 7196	<b>B</b> 7196	<b>C</b>	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing	7196 7196 0 0 0 0 0	<b>Size</b> 50 - 60 - 20 20	Poles 2 - 2 - 1 1	Circu t Num 26 28 30 32 34 34 36
t 25 27 29 31 33 35 37	1 2 - 1 1 1	20 20 50 - 30 20 20	Load (VA) 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103	<b>A</b> 7196	<b>B</b> 7196	<b>C</b>	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Recp-Nursing Office	7196 7196 0 0 0 0 0 0 0	<b>Size</b> 50 - 60 - 20 20 20	Poles 2 - 2 - 1 1 1 1	Circu t Num 26 28 30 32 34 36 38
t 25 27 29 31 33 35 37 39	1 2 - 1 1 1 1 1	20 20 50 - 30 20 20 20	Load (VA) 0 0 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103 Unit Vent 104	A 7196	<b>B</b> 7196	<b>C</b> 0	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Recp-Nursing Office Lights-Bathroom	7196 7196 0 0 0 0 0 0 0 0 0	<b>Size</b> 50 - 60 - 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1	Circ t Num 26 28 30 32 34 36 38 40
t 25 27 29 31 33 35 37 39 41	1 2 - 1 1 1	20 20 50 - 30 20 20 20 20 20	Load (VA) 0 0 0 0 0 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103 Unit Vent 104 Rm 164.1 Fan	A 7196 0	<b>B</b> 7196	<b>C</b> 0	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Recp-Nursing Office Lights-Bathroom Recp-Nursing	7196 7196 0 0 0 0 0 0 0 0 0 0 0 0	<b>Size</b> 50 - 60 - 20 20 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1 1	Circ t Num 26 28 30 32 34 36 38 40 40 42
t 25 27 29 31 33 35 37 39 41 43	1 2 - 1 1 1 1 1 1 1	20 20 50 - 30 20 20 20 20 20 20 20	Load (VA) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103 Unit Vent 104 Rm 164.1 Fan Recp-Rm103	A 7196	B 7196 0 0	<b>C</b> 0	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Recp-Nursing Office Lights-Bathroom Recp-Nursing Recp-Rm 104	7196 7196 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>Size</b> 50 - 60 - 20 20 20 20 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1 1 1 1	Circu t Num 26 28 30 32 34 36 38 40 42 44
t 25 27 29 31 33 35 37 39 41 43 45	1 2 - 1 1 1 1 1 1 1 1 1 1	20 20 50 - 30 20 20 20 20 20 20 20 20	Load (VA) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103 Unit Vent 104 Rm 164.1 Fan Recp-Rm103 Exh Fan 164.4	A 7196 0	<b>B</b> 7196	<b>C</b> 0	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Recp-Nursing Office Lights-Bathroom Recp-Nursing Recp-Rm 104 Recp-Rm 104	7196 7196 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<b>Size</b> 50 - 60 - 20 20 20 20 20 20 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Circu t Num 26 28 30 32 34 36 38 40 42 44 44
t 25 27 29 31 33 35 37 39 41 43 43 45 47	1 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 50 20 20 20 20 20 20 20 20 20 20 20	Load (VA) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103 Unit Vent 104 Rm 164.1 Fan Recp-Rm103 Exh Fan 164.4 Recp-Nursing	A 7196 0 0 0	B 7196 0 0	<b>C</b> 0	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Office Lights-Bathroom Recp-Nursing Recp-Rm 104 Recp-Rm 104 Restaurant Electric Heat	7196 7196 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Size 50 - 60 - 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Circu t Num 26 28 30 32 34 36 38 40 42 44 46 48
t 25 27 29 31 33 35 37 39 41 43 45 47 49	1 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 50 20 20 20 20 20 20 20 20 20 20 20 20	Load (VA) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103 Unit Vent 104 Rm 164.1 Fan Recp-Rm103 Exh Fan 164.4 Recp-Nursing Recp-Nursing Recp-Nursing	A 7196 0	B 7196 0 0 0	<b>C</b> 0	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Office Lights-Bathroom Recp-Nursing Recp-Rm 104 Recp-Rm 104 Restaurant Electric Heat Restaurant Electric Heat	7196 7196 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Size 50 - 60 - 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Circu t Num 26 28 30 32 34 36 38 40 42 44 46 48 50
t 25 27 29 31 33 35 37 39 41 43 45 47	1 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 50 20 20 20 20 20 20 20 20 20 20 20	Load (VA) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103 Unit Vent 104 Rm 164.1 Fan Recp-Rm103 Exh Fan 164.4 Recp-Nursing	A 7196 0 0 0	B 7196 0 0	<b>C</b> 0 0 0	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Office Lights-Bathroom Recp-Nursing Recp-Rm 104 Recp-Rm 104 Restaurant Electric Heat	7196 7196 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Size 50 - 60 - 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Circ t Num 266 288 300 322 344 366 388 400 422 444 466 488 500 522
t 25 27 29 31 33 35 37 39 41 43 45 47 49 51	1 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 50 20 20 20 20 20 20 20 20 20 20 20 20	Load (VA) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103 Unit Vent 104 Rm 164.1 Fan Recp-Rm103 Exh Fan 164.4 Recp-Nursing Recp-Nursing Recp-Nursing Restaurant Baseboard Heat Restaurant Baseboard Heat	A 7196 0 0 0 0 0	B 7196 0 0 0 0	C 0 0 0 0 0 0 1440	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Office Lights-Bathroom Recp-Nursing Recp-Rm 104 Recp-Rm 104 Restaurant Electric Heat Restaurant Electric Heat AHU Controls <b>Recp-Office C105</b>	7196 7196 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Size 50 - 60 - 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Circ t Nun 26 28 30 32 34 36 38 40 42 44 46 48
t 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53	1 2 - 1 1 1 1 1 1 1 1 1 1 2 - -	20 20 50 20 20 20 20 20 20 20 20 20 20 20 30 -	Load (VA) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103 Unit Vent 104 Rm 164.1 Fan Recp-Rm103 Exh Fan 164.4 Recp-Nursing Recp-Nursing Restaurant Baseboard Heat Restaurant Baseboard Heat Totals	A 7196 0 0 0	B 7196 0 0 0 0 0 0 0 7196	C 0 0 0 0 0 0 1440 1440	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Office Lights-Bathroom Recp-Nursing Recp-Rm 104 Recp-Rm 104 Restaurant Electric Heat Restaurant Electric Heat AHU Controls <b>Recp-Office C105</b>	7196 7196 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Size 50 - 60 - 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Circ t Num 266 288 300 322 344 366 388 400 422 444 466 488 500 522
t 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53	1 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 50 20 20 20 20 20 20 20 20 20 20 20 30 -	Load (VA) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Description Lights-Exterior Pole Front Lights-Exterior Pole Front Spare - Spare Recp-Nursing Unit Vent 103 Unit Vent 104 Rm 164.1 Fan Recp-Rm103 Exh Fan 164.4 Recp-Nursing Recp-Nursing Restaurant Baseboard Heat Restaurant Baseboard Heat	A 7196 0 0 0 0 0	B 7196 0 0 0 0	C 0 0 0 0 0 0 1440 1440	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Office Lights-Bathroom Recp-Nursing Recp-Rm 104 Recp-Rm 104 Restaurant Electric Heat Restaurant Electric Heat AHU Controls <b>Recp-Office C105</b>	7196 7196 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Size 50 - 60 - 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Circ t Num 266 288 300 322 344 366 388 400 422 444 466 488 500 522
t 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53	1 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1	20 20 50 - 30 20 20 20 20 20 20 20 20 20 2	Load (VA) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Description         Lights-Exterior Pole Front         Lights-Exterior Pole Front         Spare         -         Spare         Recp-Nursing         Unit Vent 103         Unit Vent 104         Rm 164.1 Fan         Recp-Rm103         Exh Fan 164.4         Recp-Nursing         Restaurant Baseboard Heat         Restaurant Baseboard Heat         Totals         Balanced connected load:	A 7196 0 0 0 0 0 0 0 0 0 7196	B 7196 0 0 0 0 0 0 7196 44 A	C 0 0 0 0 0 0 1440 1440	Range Rm 104 - Dryer Nursing - Recp-Rm 165 Recp-Nursing Office Lights-Bathroom Recp-Nursing Recp-Rm 104 Recp-Rm 104 Restaurant Electric Heat Restaurant Electric Heat AHU Controls <b>Recp-Office C105</b>	7196 7196 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Size 50 - 60 - 20 20 20 20 20 20 20 20 20 20 20 20 20	Poles 2 - 2 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Circ t Nur 26 28 30 32 34 36 38 40 40 42 44 46 46 50 52

NEMA 1 surface-mounted enclosure 10kA SCCR Ground bar Bold description and load indicates new circuit and wiring. Bold size and poles indicates new breaker. Remove existing breaker if necessary.

Fed from DP2

