MEMASI
2 Lyon Place
White Plains, NY 10601
P 914.915.9519 F 914.915.9520

BID ADDENDUM NO. 6

Date of Addendum:	April 24, 2026
Issued for Bid Date:	March 27, 2026
Client Name:	Public Schools of the Tarrytowns
Project Name:	2024 Capital Bond Project – Phase 2; Washington Irving Intermediate School
SED Project No.:	66-04-01-03-0-002-017
TUFSD Bid Number:	25/26-TUFSD-003
MEMASI Project No.:	101-2403
Contracts:	Contract 1: General Construction (GC) Contract 2: Mechanical Construction (MC) Contract 3: Electrical Construction (EC) Contract 4: Plumbing Construction (PC)

This Bid Addendum forms part of the Contract Documents and modifies the original Issued for Bid Documents dated March 27, 2026. Where provisions of the following supplementary information differ from those of the original Bid Documents, this Addendum shall govern and take precedence.

The Bid Documents are modified and clarified as follows:

1. **GENERAL / CLARIFICATIONS**
   a. **Question:** Please clarify door and frame required for openings EXT-Q and 104-1**.**
   Response: Provide 'Fireframes Curtain Wall Series frames and Designer Series Wide-Stile Doors, as furnished by Technical Glass Products, for both openings. Both openings require 1 Hour fire rating and Level 1 Ballistic Protection. Refer to new Specification Section 084418, attached.

   Provide Hardware as follows:

   Opening EXT Q
   Surface 4040 Series LCN closer
   TGP weld on pivot
   Rim 98/99 Von Duprin exit device
   Von Duprin M996 trim
   Card Reader

   Opening 104-1
   Surface 4040 Series LCN closer
   TGP weld on pivot
   Schlage L9092 electrified trim
   Card Reader

   Prep both openings for door release and card readers and provide balance of hardware as per 087100.

2. **CHANGES TO THE PROJECT MANUAL**

a. SECTION 084418 – GLAZED STEEL CURTAIN WALL SYSTEMS; ADD, New Section 084418, attached, in its entirety.

b. SECTION 96723 – RESINOUS FLOORING; DELETE Section 096723 – Resinous Flooring and REPLACE with new Section 096723 – Resinous Flooring, in its entirety.

3. CHANGES TO THE DRAWINGS

a. SHEET A502.1 – PLAN AND SECTION DETAILS; DELETE existing sheet A502.1. ADD Sheet A502.1, revised 4/24/2026, attached.

b. SHEET E001 – ELECTRICAL COVER SHEET; DELETE existing sheet E001. ADD Sheet E001, revised 4/24/2026, attached.

c. SHEET ED102-B – ELECTRICAL DEMOLITION PLAN - GROUND FLOOR – AREA B; DELETE existing Sheet ED102-B. ADD Sheet ED102-B, revised 4/24/2026, attached.

d. SHEET ED104-B – ELECTRICAL DEMOLITION PLAN - SECOND FLOOR – AREA B; DELETE existing Sheet ED104-B. ADD Sheet ED104-B, revised 4/24/2026, attached.

e. SHEET E099 – ELECTRICAL SITE PLAN; DELETE existing Sheet E099. ADD Sheet E099, revised 4/24/2026, attached.

f. SHEET E102-B – ELECTRICAL POWER PART PLAN - GROUND FLOOR – AREA B; DELETE existing Sheet E102-B. ADD Sheet E102-B, revised 4/24/2026, attached.

g. SHEET E200 – ELECTRICAL LIGHTING PLAN – SUB-BASEMENT; DELETE existing Sheet E200. ADD Sheet E200, revised 4/24/2026, attached.

h. SHEET E201 – ELECTRICAL LIGHTING PLAN –BASEMENT; DELETE existing Sheet E201. ADD Sheet E201, revised 4/24/2026, attached.

i. SHEET E202-A – ELECTRICAL LIGHTING PART PLAN – GROUND FLOOR – AREA A; DELETE existing Sheet E202-A. ADD Sheet E202-A, revised 4/24/2026, attached.

j. SHEET E202-B – ELECTRICAL LIGHTING PART PLAN – GROUND FLOOR – AREA B; DELETE existing Sheet E202-B. ADD Sheet E202-B, revised 4/24/2026, attached.

k. SHEET E203-A – ELECTRICAL LIGHTING PART PLAN – FIRST FLOOR – AREA A; DELETE existing Sheet E203-A. ADD Sheet E203-A, revised 4/24/2026, attached.

l. SHEET E203-B – ELECTRICAL LIGHTING PART PLAN – FIRST FLOOR – AREA B; DELETE existing Sheet E203-B. ADD Sheet E203-B, revised 4/24/2026, attached.

m. SHEET E204-A – ELECTRICAL LIGHTING PART PLAN – SECOND FLOOR – AREA A; DELETE existing Sheet E204-A. ADD Sheet E204-A, revised 4/24/2026, attached.

n. SHEET E204-B – ELECTRICAL LIGHTING PART PLAN – SECOND FLOOR – AREA B; DELETE existing Sheet E204-B. ADD Sheet E204-B, revised 4/24/2026, attached.

o. SHEET E205 – ELECTRICAL LIGHTING PLAN – THIRD FLOOR; DELETE existing Sheet E205. ADD Sheet E205, revised 4/24/2026, attached.

p. SHEET E602– ELECTRICAL PANEL SCHEDULE SHEET 2; DELETE existing Sheet E602. ADD Sheet E602, revised 4/24/2026, attached.

END OF BID ADDENDUM NO. 6

SECTION 08 44 18 - GLAZED STEEL CURTAIN WALL- FIREFRAMES® CURTAIN WALL SERIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Fire-rated curtain wall systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of curtain wall framing.

1.2 REFERENCES

A. American Architectural Manufacturers Association (AAMA)
1. AAMA 501.1-2005: Standard Test Method for Water Penetration of Windows, Curtain Walls, and Doors Using Dynamic Pressure
2. AAMA 501.2-2003: Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems
3. AAMA 501.4-2000 (Revised 2001): Recommended Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drifts
4. AAMA 501.5-2005: Test Method for Thermal Cycling of Exterior Walls
5. AAMA 506-2000 (Revised 2003): Voluntary Specifications for Hurricane Impact and Cycle Testing of Fenestration Products
6. AAMA 1503-1998: Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections
7. AAMA 2603-2002 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
8. AAMA 2604-2005 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
9. AAMA 2605-2005 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.

B. American Society for Testing and Materials (ASTM):
1. Fire safety related:
   a. ASTM E119: Methods for Fire Tests of Building Construction and Materials.
2. Material related
   a. ASTM A 1008/A 1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength, Low Alloy, and High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable; 2007.
   b. ASTM A 1011/A 1011M - Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength; 2006b.
3. Exterior related
   a. ASTM E 283-04: Test Method for Determining the Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors under Specified Pressure Differences across the Specimen
   b. ASTM E 330-02: Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference Procedure A
   c. ASTM E 331-04: Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
   d. ASTM E 783-02: Test Method for Field Measurement of Air Leakage through Installed Exterior Windows and Doors

e. ASTM E 1105-00: Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform or Cyclic Static Air Pressure Difference

4. Hurricane related
   a. ASTM E 1886-05: Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
   b. ASTM E 1996-05: Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes
5. Sound related:
   a. ASTM E 90-04: Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
   b. ASTM E 413-04: Standard Classification for Rating Sound Insulation

C. American Welding Society (AWS)
1. AWS D1.3 - Structural Welding Code - Sheet Steel; 2007

D. Builders Hardware Manufacturers Association, Inc
1. BHMA A156 - American National Standards for door hardware; 2006 (ANSI/BHMA A156).

E. Canadian Standards
1. CAN/ULC-S101 Standard Test of Fire Endurance Tests of Building Construction and Materials
2. CAN/ULC-S104 Standard Method of Fire Tests of Door Assemblies
3. CAN/ULC-S106 Standard Method of Fire Tests of Window and Glass Block Assemblies

F. National Fire Protection Association (NFPA):
1. NFPA 80: Fire Doors and Windows.
2. NFPA 251: Fire Tests of Building Construction & Materials
3. NFPA 252: Fire Tests of Door Assemblies
4. NFPA 257: Fire Test of Window Assemblies

G. Underwriters Laboratories, Inc. (UL):
1. UL 9: Fire Tests of Window Assemblies
2. UL 10 B: Fire Tests of Door Assemblies
3. UL 10 C: Positive Pressure Fire Tests of Window & Door Assemblies
4. UL 263: Fire tests of Building Construction and Materials
5. UL-752: Ratings of Bullet-Resistant Materials

H. American National Standards Institute (ANSI):
1. ANSI Z97.1: Standard for Safety Glazing Materials Used in Buildings

I. Consumer Product Safety Commission (CPSC):
1. CPSC 16 CFR 1201: Safety Standard for Architectural Glazing Materials

J. American Society of Civil Engineers (ASCE)
1. ASCE 7 – Minimum Design Loads for Buildings and Other Structures; 2005

1.3 DEFINITIONS

A. Manufacturer: A firm that produces primary glass, fabricated glass or framing as defined in referenced glazing publications.

1.4 SUBMITTALS

A. Submit in accordance with Section 013300.

B. Product Data:
1. Technical Information: Submit latest edition of manufacturer's product data providing product descriptions, technical data, Underwriters Laboratories, Inc. listings and installation instructions.

C. Shop Drawings:
1. Include plans, elevations and details of product showing component dimensions; framed opening requirements, dimensions, tolerances, and attachment to structure

D. Structural Calculations:
1. Provide structural calculations sealed by a licensed professional engineer in the State in which the project is located; prepared in compliance with referenced documents and these specifications.

E. Samples (optional). For following products:
1. Glass sample-as provided by manufacturer
2. Sample of frame
3. Verification of sample of selected finish

F. Glazing Schedule: Use same designations indicated on drawings for glazed openings in preparing a schedule listing glass types and thicknesses for each size opening and location.

G. Warranties: Submit manufacturer's warranty.

H. Certificates of compliance from glass and glazing materials manufacturers attesting that glass and glazing materials furnished for project comply with requirements.
1. Separate certification will not be required for glazing materials bearing manufacturer's permanent label designating type and thickness of glass, provided labels represent a quality control program involving a recognized certification agency or independent testing laboratory acceptable to authority having jurisdiction.

1.5 QUALITY ASSURANCE

A. Testing Agency Qualifications: Qualifications according to
1. International Accreditation Service for a Type A Third-Party Inspection Body (Field Services ICC-ES Third-Party Inspections Standard Operating Procedures, 00-BL-S0400 and S0401)
2. International Accreditation Service for Testing Body-Building Materials and Systems
    a. Fire Testing
        1) ASTM Standard E119
        2) CPSC Standard 16 CFR 1201
        3) NFPA Standards 251, 252, 257
        4) UL Standards 9, 10B, 10C, 1784, UL Subject 63
        5) BS 476; Part 22: 1987
        6) EN 1634-1
        7) CAN/ULC Standards S101, S104, S106

B. Installer Qualifications: An experienced installer who has completed glazing similar in material, design, and extent to that indicated for this Project; whose work has resulted in glass installations with a record of successful in-service performance; and who employs glass installers for this Project who are certified under the National Glass Association Glazier Certification Program as Level 2 (Senior Glaziers) or Level 3 (Master Glaziers).

C. Installer Qualifications: An experienced installer who has completed glazing similar in material, design, and extent to that indicated for Project and whose work has resulted in construction with a record of successful in-service performance.

D. Source Limitations for Glazing Accessories: Obtain glazing accessories from one source for each product and installation method indicated.

E. Fire-Rated Window Assemblies: Assemblies complying with NFPA 80 that are classified and labeled by UL, for fire ratings indicated, based on testing according to NFPA 257 and UL 9.

F. Fire-Rated Wall Assemblies: Assemblies complying with ASTM E119 that are classified and labeled by UL, for fire ratings indicated, based on testing in accordance with UL 263, ASTM E119.

G. Listing and Labels – Fire-Rated Assemblies: Under current follow-up service by Underwriters Laboratories® maintaining a current listing or certification. Label assemblies accordance with limits of manufacturer's listing.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store and handle under provisions specified by manufacturer.

1.7 PROJECT CONDITIONS

A. Obtain field measurements prior to fabrication of frame units. If field measurements will not be available in a timely manner, coordinate planned measurements with the work of other sections.
   1. Note whether field or planned dimensions were used in the creation of the shop drawings

B. Coordinate the work of this sections with others effected including but not limited to: other interior and /or exterior envelope components and door hardware beyond that provided by this section.

1.8 WARRANTY

A. Provide the Pilkington Pyrostop® and the Fireframes® Curtainwall Series standard five-year manufacturer warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS (ACCEPTABLE MANUFACTURERS/PRODUCTS) - IN ORDER TO ESTABLISH A STANDARD OF QUALITY, BUT NOT TO LIMIT COMPETITION, THE BASIS OF DESIGN IS TECHNICAL GLASS PRODUCTS.

A. Manufacturer Glazing Material: "Pilkington Pyrostop®" fire-rated glazing as manufactured by the Pilkington Group and distributed by Technical Glass Products, 8107 Bracken Place SE, Snoqualmie, WA 98065 phone (800.426.0279) e-mail tgp.sales@allegion.com, web site http://www.fireglass.com.

B. Frame System: Fireframes® Curtainwall Series fire-rated steel frame system as supplied by Technical Glass Products 8107 Bracken Place SE, Snoqualmie, WA 98065 phone (800.426.0279) e-mail tgp.sales@allegion.com, web site http://www.fireglass.com.

2.2 PERFORMANCE REQUIREMENTS

A. System Description:
   1. Steel fire-rated glazed curtain wall system, outside glazed pressure plate, cover cap format.
   2. Face Widths Available:
      a. 1 3/4-inch.
      b. 2 3/8-inch wide.
   3. Water Drainage:
   4. System is vertically weeped. No joint plugs or weep holes at horizontal mullions. Horizontal gaskets are notched and received by vertical gaskets.

B. Structural Performance
   1. Design and size the system to withstand structural forces placed upon it without damage or permanent set when tested in accordance with ASTM E330 using load 1.5 times the design wind loads and of 10 seconds in duration.
   2. Positive wind load: as indicated on the drawings
   3. Negative wind Load: as indicated on the drawings
   4. Member deflection: Limit deflection of the edge of the glass normal to the plane of the glass to 1/175 of the glass edge length or ¾ inch, whichever is less][of any framing member
   5. Accommodate movement between storefront and adjoining systems

C. Air Infiltration: ASTM E 283; Air infiltration rate shall not exceed 0.06 cfm/ft^2 at a static air pressure differential of 6.24 psf.

D. Water Resistance, (static): ASTM E 331; No leakage at a static air pressure differential of 15 psf as defined in AAMA 501.

E. Water Resistance, (dynamic): AAMA 501.1; No leakage at an air pressure differential of 15 psf as defined in AAMA 501.

F. Thermal Movements: Provide steel fire-rated glazed curtain-wall systems that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

   1. Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.3 MATERIALS - GLASS

A. Low-E Coated glass for use in insulated exterior units See Section 08 80 00. See chart below for Low-E configurations.

B. Use the paragraph above to specify the low-e coated glass in Section 08 80 00 and use the paragraph below to select glass available from Technical Glass Products. Other manufacturer’s glass will need to be shipped to Technical Glass Products for incorporation into insulated unit.

C. Not all Low-E coated glass by all manufacturers is available for assembly by others into insulated units. Consult with low-e glass manufacturer about availability of their low-e product for shipment to Technical Glass Products for inclusion into insulated units.

D. Fire Rated Glazing: Composed of multiple sheets of Pilkington “Optiwhite™” high visible light transmission glass laminated with an intumescent interlayer.

E. Impact Safety Resistance: ANSI Z97.1 and CPSC 16CFR1201 (Cat. I and II).

F. Adjust list of thicknesses below to suit Project -- these are listed in tabular form delete those columns not used.

G. Properties Interior Glazing

Property				
Fire Rating	45 minute	60 minute		120 minute
Manufacturer's designation	45-200	60-101	60-201	120-104
Glazing type	single	single	single	IGU
Nominal Thickness	3/4" (19mm)	7/8" (23mm)	1-1/16" (27mm)	2-1/8 (54mm) [with 8 mm spacer, or 2-3/8" (60 mm) with 14 mm spacer]
Weight in lbs/sf	9.2	10.85	12.5	21.7
Daylight Transmission	86%	87%	86%	75%
Sound Transmission Coefficient	40dB	41dB	44dB	46dB

H. Properties Exterior Glazing

Property	45 minute		60 minute		120 minute
Manufacturer's designation	45-200	45-260 45-360	60-201	60-261 60-361*	120-262 120-362*
Glazing type	single	IGU	single	IGU	IGU
Nominal Thickness	3/4" (19mm)	1-5/16" (33mm)	1-1/16" (27mm)	1-5/8" (41mm)	2-3/8" (60mm) [with 14 mm spacer, or 2-1/8" (54 mm) with 8 mm spacer]
Weight in lbs/sf	9.2	12.5	12.5	15.8	22.1
Daylight Transmission	86	77	86%	77%	74%
		59-71		59-70%	33-68%
Sound Transmission Coefficient	40dB	40dB	44dB	44dB	46dB

* Low-E product.

I. Exterior Grade: PVB inner layer installed toward exterior.

J. Logo: Each piece of fire-rated glazing shall be labeled with a permanent logo including name of product, manufacturer, testing laboratory (UL), fire rating period, safety glazing standards, and date of manufacture.

K. Glazing Accessories: Manufacturer's standard compression gaskets, spacers, setting blocks and other accessories necessary for a complete installation.

2.4 MATERIALS –STEEL FRAMING

A. Steel Curtainwall Framing System As shown on the drawings
   1. Frame: Steel: profiled steel tubing permanently joined with steel bolts.
   2. Insulation: Insulate framing system against effects of fire, smoke, and heat transfer from either side. Firmly pack perimeter of framing system to rough opening with mineral wool fire stop insulation or appropriately rated intumescent sealant
   3. Fasteners: Type recommended by manufacturer
   4. Glazing Gaskets, Compounds and tapes: Glaze Pilkington Pyrostop glass with approved EPDM glazing gaskets and closed cell PVC tape.
   5. Steel Pressure Plates: Formed stainless steel pressure plate with dimensions recommended by manufacturer to securely hold glazing material in place.
   6. Cover Caps: Formed stainless steel]

B. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
   1. Extruded Bars, Rods, Shapes, and Tubes: ASTM B 221 (ASTM B 221M).

C. Steel Reinforcement: With manufacturer's standard corrosion-resistant primer complying with SSPC-PS Guide No. 12.00 applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM and prepare surfaces according to applicable SSPC standard.
   1. Structural Shapes, Plates, and Bars: ASTM A 36/A 36M Standard Specification for Carbon Structural Steel
   2. Cold-Rolled Sheet and Strip: ASTM A1008/A1008M Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Required Hardness, Solution Hardened, and Bake Hardenable
   3. Hot-Rolled Sheet and Strip: ASTM A1011/A1011M Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength

D. Brackets and Reinforcements: Manufacturer's standard high-strength materials with nonstaining, nonferrous shims for aligning system components.

E. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
   4. Where fasteners are subject to loosening or turn out from thermal and structural movements, wind loads, or vibration, use self-locking devices.
   5. Reinforce members as required to receive fastener threads.

F. Anchors: Three-way adjustable anchors that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.

   1. Concrete and Masonry Inserts: Hot-dip galvanized cast-iron, malleable-iron, or steel inserts complying with ASTM A 123/A 123M or ASTM A 153/A 153M requirements.

G. Concealed Flashing: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding flashing compatible with adjacent materials.

2.5 ACCESSORIES

A. Exposed Fasteners: Use fasteners fabricated from Type 304 or Type 316 stainless steel.

B. Glazing Gaskets:
   1. Glazing gaskets for interior or exterior applications: ASTM C 864 (extruded EPDM rubber that provides for silicone adhesion) or ASTM C1115 Standard Specification for Dense Elastomeric Silicone Rubber Gaskets and Accessories (extruded silicone).

C. Intumescent Tape: As supplied by frame manufacturer.

D. Setting Blocks: ¼" Calcium silicate.

E. Perimeter Anchors: Steel or 316 Stainless steel when exposed.

F. Flashings: As recommended by manufacturer; same material and finish as cover caps.

G. Silicone Sealant: One-Part Low Modulus, neutral cure High Movement-Capable Sealant: Type S; Grade NS; Class 25 with additional movement capability of 100 percent in extension and 50 percent in compression (total 150 percent); Use (Exposure) NT; Uses (Substrates) M, G, A, and O as applicable. (Use-O joint substrates include: Metal factory-coated with a high-performance coating; galvanized steel; ceramic tile.)
   1. Available Products:
      a. Dow Corning 790, 795 - Dow Corning Corp.
      b. Momentive
      c. Tremco

H. Intumescent Caulk: Single component, latex-based, intumescent caulk designed to stop passage of fire, smoke, and fumes through fire-rated separations; permanently flexible after cure; will not support mold growth; flame spread/smoke developed 10/10.
   1. Available Products:
      a. 3M CP-25 WP+.

2.6 SLAG-WOOL-FIBER/ROCK-WOOL-FIBER INSULATION

A. Available Manufacturers:
   1. Fibrex Insulations Inc.
   2. Owens Corning
   3. Thermafiber
   4. Rockwool

B. Unfaced, Slag-Wool-Fiber/Rock-Wool-Fiber Board Insulation: ASTM C 612, maximum flame-spread and smoke-developed indexes of 15 and 0, respectively; passing ASTM E 136 for combustion characteristics; and of the following nominal density and thermal resistivity:
   1. Nominal density of 4 lb/cu. ft. (64 kg/cu. m), Types IA and IB, thermal resistivity of 4 deg F x h x sq. ft./Btu x in. at 75 deg F (27.7 K x m/W at 24 deg C).
   2. Fiber Color: Regular color, unless otherwise indicated.

2.7 FABRICATION

A. General:
   1. Fabricate components per manufacturer's installation instructions and with minimum clearances and shim spacing around perimeter of assembly yet enabling installation and dynamic movement of perimeter seal.
   2. Accurately fit and secure joints and corners. Make joints flush and weatherproof.
   3. Prepare components to receive anchor devices.
   4. Provide physical and thermal isolation of glazing from framing members.
   5. Provide internal guttering to drain water from joints and condensation occurring within glazing pocket.
   6. Fabricate anchors.
   7. Arrange fasteners and attachments to be concealed from view.

B. Guttered System Components:

1. Fabricate components to resist water penetration as follows:
   a. Internal guttering system or other means to drain water passing joints, occurring within framing members, and moisture migrating within glazed steel curtain walls.
   b. Pressure-equalized system, double barrier, or two lines of air and water resistance design with primary air and water barrier at interior side of glazing pocket.

2.8 POWDER COAT FINISHES

A. Finish after fabrication.

B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable. Noticeable variations in the same piece are not acceptable.

C. Interior and Exterior Steel Finishes (Note: this finish is suitable for exterior exposed portions of the wall systems, including extruded aluminum covers).
   1. Powder-Coat Finish: Polyester Super Durable powder coating which meets AAMA 2604 for chalking and fading. Apply manufacturer's standard powder coating finish system applied to factory-assembled frames before shipping, complying with manufacturer's recommended instructions for surface preparation including pretreatment, application, and minimum dry film thickness.
   2. Color and Gloss: [As indicated by manufacturer's designations] [Match Architect's sample] [As selected by Architect from manufacturer's full range].
   3. Acceptable Manufacturers:
      a. Tiger Drylac
      b. Additional manufacturers as approved by TGP

2.9 ALUMINUM FINISHES

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. High-Performance Organic Finish (3-Coat Fluoropolymer): AA-C12C40R1x (Chemical Finish: cleaned with inhibited chemicals; Chemical Finish: conversion coating; Organic Coating: manufacturer's standard 3-coat, thermocured system consisting of specially formulated inhibitive primer, fluoropolymer color coat, and clear fluoropolymer topcoat, with both color coat and clear topcoat containing not less than 70 percent polyvinylidene fluoride resin by weight). Prepare, pretreat, and apply coating to exposed metal surfaces to comply with AAMA 2605 and with coating and resin manufacturers' written instructions.

1. Color and Gloss: As selected by Architect from manufacturer's full range

PART 3 - EXECUTION

3.1 EXAMINATION

A. Site Verification of Conditions: Verify substrate conditions (which have been previously installed under other sections) are acceptable for product installation in accordance with manufacturer’s instructions. Verify openings are sized to receive curtain wall system and sill plate is level in accordance with manufacturer’s acceptable tolerances.

B. Notify Architect of any conditions which jeopardize the integrity of the proposed fire wall / door system.

C. Do not proceed until such conditions are corrected.

3.2 INSTALLATION

A. See Fireframes Curtainwall Series Installation Manual

3.3 PROTECTION AND CLEANING

A. Protect glass from damage immediately after installation by attaching crossed streamers to framing held away from the glass. Do not apply markers to the glass surface. Remove nonpermanent labels, and clean surfaces.
   1. Do not clean with astringent cleaners. Use a clean “grit free” cloth and a small amount of mild soap and water or mild detergent.
   2. Do not use any of the following:
      a. Steam jets
      b. Abrasives
      c. Strong acidic or alkaline detergents, or surface-reactive agents
      d. Detergents not recommended in writing by the manufacturer
      e. Do not use any detergent above 77 degrees F
      f. Organic solvents including but not limited to those containing ester, ketones, alcohols, aromatic compounds, glycol ether, or halogenated hydrocarbons.
      g. Metal or hard parts of cleaning equipment must not touch the glass surface

B. Protect glass from contact with contaminating substances resulting from construction operations, including weld splatter. If, despite such protection, contaminating substances do come into contact with glass, remove them immediately as recommended by glass manufacturer.

C. Wash glass on both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended by glass manufacturer.

END OF SECTION 084418

SECTION 096723 - RESINOUS FLOORING

PART 1 - GENERAL

1.1 SUMMARY

A. Work Included: Provide and install multi-part resinous floor system, complete, as shown on Drawings and as specified, including:

1. Locations: Areas as indicated by the Plan finish schedule.

2. Provide preparation of substrate as recommended by the resinous flooring manufacturer.

3. Provide and install cove base with trims and accessories as specified in this Section.

4. Provide and install multi-part resinous floor system as specified in this Section.

5. Provide and install sealant joint material for the Work of this Section as specified in this Section.

6. Provide treatment of substrate cracks and control/construction joints as needed and specified in this Section.

B. Related Work Specified Elsewhere:

1. Division 01 81 13 – Sustainable Design Requirements

2. Division 03 30 00 – Cast-In-Place Concrete

3. Division 07 10 00 – Dampproofing and Waterproofing

4. Division 07 90 00 – Joint Protection

1.2 SUBMITTALS

A. Comply with provisions of Section 01 33 00 – Submittal Procedures.

B. Product Data: Submit manufacturer's technical data, installation instructions, and general recommendations for each resinous flooring material required.

1. Include certification that indicates compliance of materials with requirements.

C. Samples: Submit, for verification purposes, 5-inch square samples of each type of resinous flooring required, applied to a rigid backing, in color and finish indicated.

1. For initial selection of colors and finishes, submit manufacturer's color charts showing full range of colors and finishes available.

D. Certificates: By manufacturer of resinous flooring; upon completion of Work, written

statement that technical support to applicator and field supervision was sufficient to assure proper application of materials and that installation is acceptable.

E. Maintenance Instructions: Submit manufacturer's written instructions for recommended maintenance practices.

1.3 QUALITY ASSURANCE

A. Qualifications of the Applicator: Licensed or approved by the manufacturer of the coating system and has successfully completed 5 projects of similar size and complexity.

B. Single Source Responsibility: Obtain primary resinous flooring materials including primers, resins, hardening agents, finish or sealing coats from a single manufacturer with not less than ten years of successful experience in manufacturing and installing principal materials described in this Section.

C. Special Requirements: Regulatory Agencies: Use materials for Work of this Section which comply with volatile organic compound limitations and other regulations of local Air Quality Management District and other local, state, and federal agencies having jurisdiction.

D. ISO 9001: All materials, including primers, resins, curing agents, finish coats, aggregates and sealants are manufactured and tested under an ISO 9001 registered quality system.

1.4 PRE-INSTALLATION CONFERENCE

A. Comply with requirements of Section 01 31 19 – Project Meetings.

1.5 PROJECT CONDITIONS

A. New Type 1 concrete shall be properly cured for a minimum of 5 days and have sufficient strength to handle mechanical preparation.

B. Utilities, including electric, water, heat (air temperature between 60 and 85°F/16 and 30°C) and finished lighting to be supplied by General Contractor.

C. Job area to be free of other trades during, and for a period of 24 hours, after floor installation.

D. Protection of finished floor from damage by subsequent trades shall be the responsibility of the General Contractor.

1.6 DELIVERY, STORAGE AND HANDLING

A. Material shall be delivered to job site and checked by flooring contractor for completeness and shipping damage prior to job start.

B. All materials used shall be factory pre-weighed and pre-packaged in single, easy to manage batches to eliminate on site mixing errors.

1. No on site weighing or volumetric measurements allowed.

C. Material shall be stored in a dry, enclosed area protected from exposure to moisture.

1. Temperature of storage area shall be maintained between 60 and 85-degrees F.

1.7 WARRANTY

A. Manufacturer shall furnish a single, written warranty covering both material and workmanship for a period of one (1) one full years from date of installation, or provide a joint and several warranty signed on a single document by material manufacturer and applicator jointly and severally warranting the materials and workmanship for a period of (1) one full year from date of installation. A sample warranty letter must be included with bid package or bid may be disqualified.

1. Resinous manufacturer representative shall return to project within 6 months to conduct inspection of resinous floor area.

PART 2 - PRODUCTS

2.1 RESINOUS FLOORING

A. Colors:

1. As selected by Architect from manufacturer’s standard colors.

B. Resinous Flooring

1. Basis of Design: Stonclad UR with Stonkote HT4, as manufactured and installed by Stonhard, Ph: (347) 306 5280, Contact: Mike Pepper, mpepper@stonhard.com.

C. System Components: Manufacturer's standard components that are compatible with each other and are as follows:

1. Primer (Urethane Primer)

a. Formulation: Three-component, urethane
b. Application Method: Squeegee and medium nap roller
c. Application Thickness: 4-6 mils

2. Mortar Base (Stonclad UR)

a. Formulation: Four-component mortar consisting of urethane resin, curing agent, selected, graded aggregates blended with inorganic pigments.
b. Application Method: Steel Trowel
c. Application Thickness: 3/16” minimum

3. Finish Coat (Stonkote HT4)

a. Formulation: Two-component, free flowing amine-cured bisphenol-F epoxy

consisting of resin and curing agent.
b. Application Method: Squeegee and medium nap roller
c. Application Thickness: 4-6 mils
d. Number of Applications: 2

4. Surface Texture (Stonclad) - Horizontal surface areas only

a. Formulation: 90 grit silica quartz aggregate.
b. Application Method: Broadcast into first application of Stonkote HT4
c. Number of applications: 1

D. Physical Characteristics: Provide resinous floor system in which the minimum physical properties of resinous floor including aggregate, when tested with standards or procedures referenced below, are as follows:

1. Compressive Strength: 5,000 psi (ASTM C579)

2. Tensile Strength: 1,000 psi (ASTM C307)

3. Flexural Strength: 2,000 psi (ASTM C580)

4. Hardness: 80-84 (ASTM D2240/Shore D)

5. Water Absorption: <1% (ASTM D648)

E. Dynamic Cracks, Control and Construction Joints (if needed):

1. Stonproof CT5: Two-component, flexilbilized epoxy membrane in conjunction with 10 ounce fiberglass engineering fabric.

PART 3 - EXECUTION

3.1 EXAMINATION

A. General: Examine substrate to receive resinous flooring; give written notification of deficiencies. Do not proceed until unsatisfactory conditions are corrected.

1. Substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials and laitance.

a. Laitance and unbonded cement particles must be removed by abrasive blasting, scarifying.
b. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent, “Stonkleen DG9”, or equal; and rinsing with clean water.
c. The surface must show open pores throughout and have a sandpaper texture.

B. Moisture Testing: Test only existing concrete with known moisture vapor transmission problems or those (new or existing) without a visqueen vapor barrier placed beneath the

slab.

1. New Concrete: Testing of moisture in new concrete is not required.

2. Existing Concrete: Perform in situ probe test per AST F2170. If test results yield rH values greater than 85 percent then a moisture mitigation system may be required.

3. Perform additional moisture tests recommended by manufacturer. Proceed with application only after substrates pass testing.

3.2 PREPARATION

A. Surface Preparation: Concrete preparation shall be by mechanical means and include use of a scabbler, scarifier or shot blast machine for removal of bond inhibiting materials such as curing compounds or laitance.

3.3 MIXING

A. General: Mix components only in amounts that can be applied within recommended application life.

1. Discard materials not used within application life.

3.4 SYSTEM APPLICATION

A. General: Apply each component of resinous flooring system in compliance with manufacturer's written directions to produce a uniform monolithic wearing surface of thickness indicated, uninterrupted except at divider strips, sawn joints or other types of joints (if any), indicated or required.

B. Resinous Flooring:

1. Primer: Mix and apply primer over properly prepared substrate with strict adherence to manufacturer's installation procedures and coverage rates. Coordinate timing of primer application with application of troweled mortar to ensure optimum adhesion between resinous flooring materials and substrate.

2. Mortar Base: Mix mortar material according to manufacturer's recommended procedures. Uniformly spread mortar over substrate using manufacturer's specially designed screed rake adjusted to manufacturer's recommended height. Hand trowel apply mixed material over freshly primed substrate using steel finishing trowels or power trowel material using manufacturer's specially designed power trowel blades.

3. Finish Coats: Remove excess unbonded granules by lightly brushing and vacuuming the floor surface. Mix and apply coating with strict adherence to manufacturer's installation procedures to both floor and coved base surfaces.

C. Integral Coved Base:

1. Mix and apply cove base mortar in conjunction with mortar base of resinous flooring at the height indicated on Drawings and/or Finish Schedule.

D. Expansion/Isolation Joints:

1. Stonflex MP7 Sealant: Mix and apply sealant to properly prepared cut joints (if any). The use of a polyethylene backer rod should be used in expansion and/or isolation joints. Sealant shall be applied at a depth of half the width of the joint.

E. Dynamic Cracks, Control and/or Construction Joints:

1. Stonproof CT5: Prior to installation of Resinous Flooring, mechanically rout cracks and joints to a depth of 3/8” minimum and at a 45 degree angle to create a “V” into the concrete substrate following the crack and/or joint. Apply Stonproof CT5 at a 30 mil thickness six inches on each side of crack or joint and filling the “V”. Immediately place 10 ounce woven fiberglass engineering fabric into uncured Stonproof CT5 and saturate with additional Stonproof CT5 applied with a medium nap roller.

3.5 FIELD QUALITY CONTROL

A. The right is reserved to invoke the following material testing procedure at any time, and any number of times during period of flooring application.

1. The Owner will engage service of an independent testing laboratory to sample materials being used on the job site. Samples of material will be taken, identified and sealed, and certified in presence of Contractor.

2. Testing laboratory will perform tests for any of characteristics specified, using applicable testing procedures referenced herein, or if none referenced, in manufacturer's product data.

3. If test results show materials being used do not comply with specified requirements, Contractor may be directed by the Owner to stop work; remove non-complying materials; pay for testing; reapply flooring materials to properly prepared surfaces which had previously been coated with unacceptable materials.

3.6 PROTECTION OF ADJACENT WORK

A. General: Resinous floor system will be installed in locations where other adjacent finish materials, including ornamental metal, lath and plaster, and other finish assemblies may already be in place. Protect all adjacent surfaces during installation and finishing.

1. Installed adjacent finishes shall be completely isolated from epoxy coating system installation. Provide Plastic ("Visqueen") wrap and mask all edges.

2. Provide constant supervision and immediate clean up throughout resinous floor system installation.

3. After resinous floor system has fully cured, remove protection from adjacent

surfaces and wipe down surfaces using clean, cotton towels.

3.7 CURING, PROTECTION AND CLEANING

A. Cure resinous flooring materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of application and prior to completion of curing process.

1. Close area of application for a minimum of 24 hours.

B. Protect resinous flooring materials from damage and wear during construction operation.

1. Where temporary covering is required for this purpose, comply with manufacturer's recommendations for protective materials and method of application.

2. General Contractor is responsible for protection and cleaning of surfaces after final coats.

C. Cleaning:

1. Remove temporary covering and clean resinous flooring just prior to final inspection.

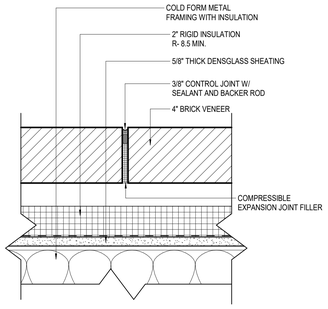
2. Use cleaning materials and procedures recommended by resinous flooring manufacturer.

END OF SECTION 096723

SHEET NOTES

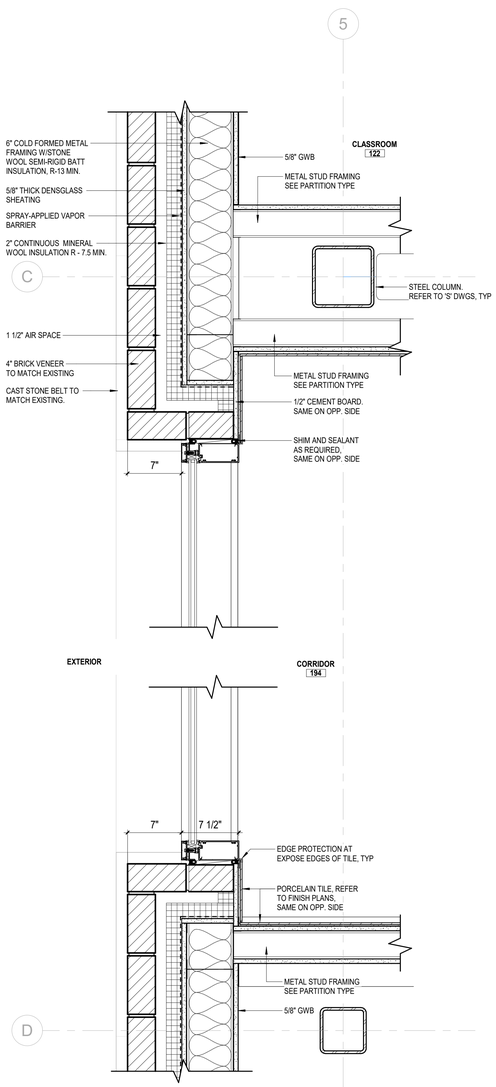
KEY NOTES

D120 CAREFULLY REMOVE, SALVAGE AND PROTECT THE FOLLOWING MASONRY ITEM: (PRE-CAST CONC. SILL)) FOR RE-INSTALLATION IN NEW LOCATION. PROVIDE NEW PRE-CAST SILL TO MATCH EXISTING IF UNABLE TO RETAIN. 6



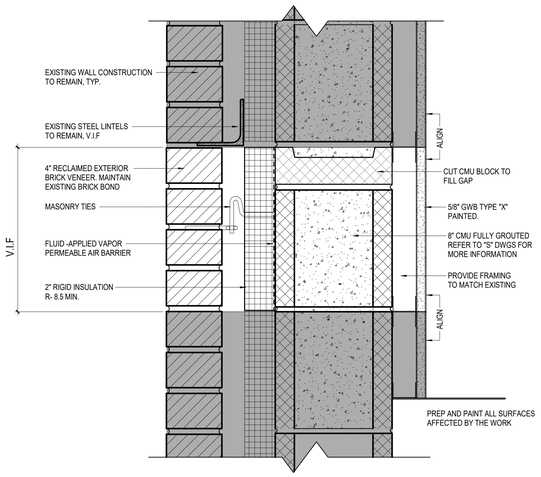
CONTROL JOINT DETAIL 33

3" = 1'-0"



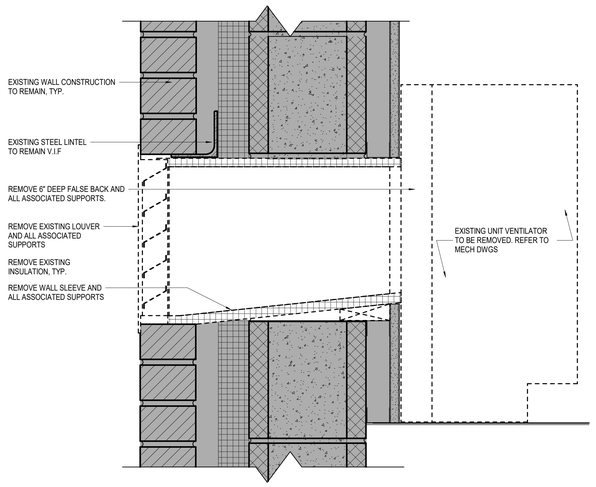
PLAN DETAIL @ CORRIDOR (194) - NEW ADDITION 13

1 1/2" = 1'-0"



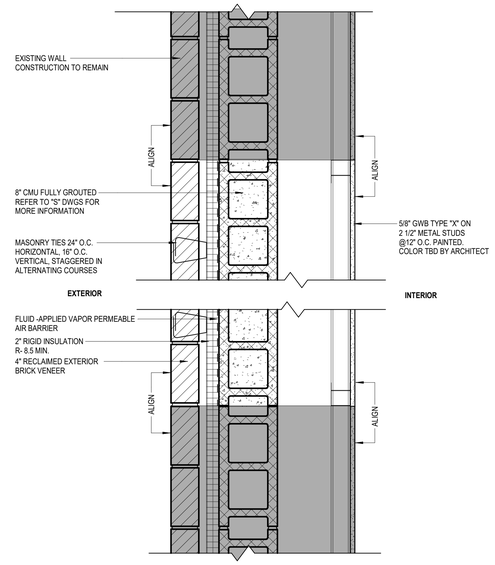
SECTION DETAIL @ LOUVER INFILL (1997 ADDITION) 22

3" = 1'-0"



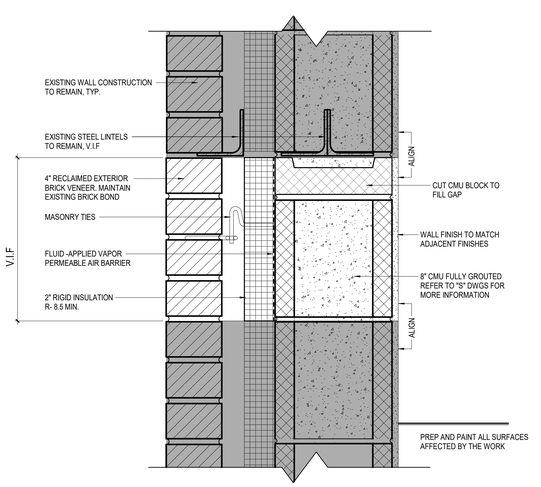
DEMO SECTION DETAIL @ EXTERIOR INTAKE LOUVER (1997 ADDITION) 21

3" = 1'-0"



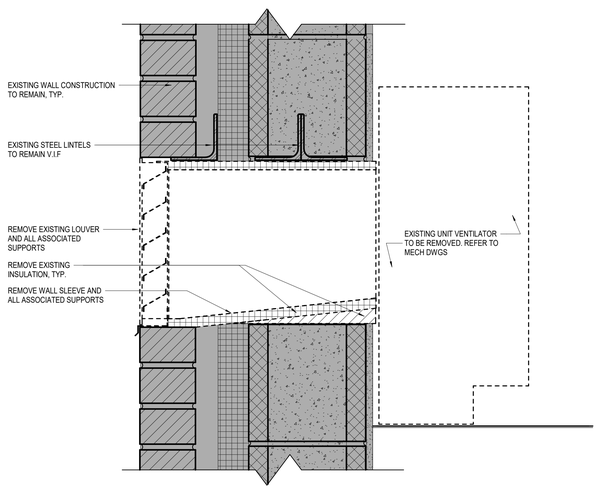
PLAN DETAIL @ WINDOW INFILL (1997 ADDITION) 20

1 1/2" = 1'-0"



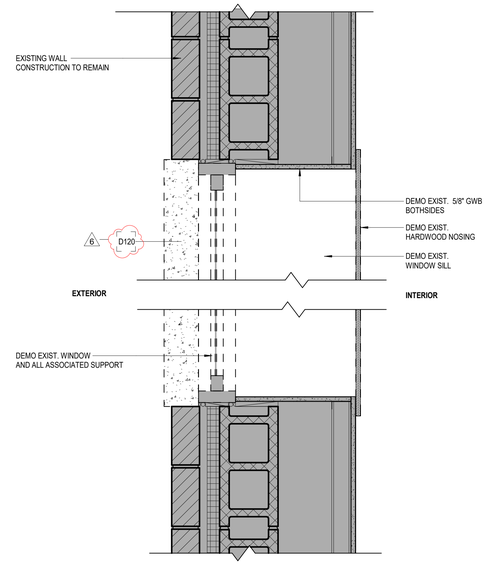
SECTION DETAIL @ EXTERIOR BRICK INFILL (EXIST. BUILDING) 12

3" = 1'-0"



DEMO SECTION DETAIL @ EXTERIOR INTAKE LOUVER (EXIST. BUILDING) 11

3" = 1'-0"



DEMO PLAN DETAIL @ WINDOW (1997 ADDITION) 10

1 1/2" = 1'-0"

Public Schools of the Tarrytowns

2024 CAPITAL BOND PROJECT - PHASE 2

WASHINGTON IRVING INTERMEDIATE SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

HAZARDOUS MATERIALS CONSULTANT
QUALITY ENVIRONMENTAL SOLUTIONS & TECHOLOGIES, INC
1376 ROUTE 9
WAPPINGERS FALLS, NY 12590
845.298.6031

STRUCTURAL CONSULTANT
RYAN BIGGS I CLARK DAVIS ENGINEERING & SURVEYING DPC
257 LISHERS ROAD
CLIFTON PARK, NY 12065
518.406.5506

MEP CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905
203.352.1717

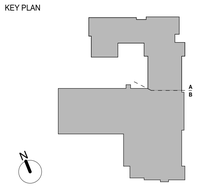
SITE - CIVIL CONSULTANT
THE LA GROUP
40 LONG ALLEY
SARATOGA SPRING, NY 12866

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING LLC
992 BEDFORD STREET
BRIDGEWATER, MA. 02324

SEAL

BID ADDENDUM	6	04/24/2026
ISSUED FOR BID		03/27/2026
ISSUE		DATE

KEY PLAN



PROJECT NO.	66 - 04 - 01 - 03 - 0 - 002 - 017
MEMASI PROJECT NO.	101 - 2403

PLAN AND SECTION DETAILS

A502.1

ELECTRICAL SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
	20A, 125V DECORA STYLE DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
USB	20A, 125V DECORA STYLE DUPLEX RECEPTACLE WITH DUAL USB PORTS
	20A, 125V SINGLE RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE QUADRUPLEX RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE GFCI TYPE DUPLEX RECEPTACLE – FLUSH WALL MOUNTED
WP	20A, 125V GFCI TYPE WEATHER RESISTANT DUPLEX RECEPTACLE IN WEATHER PROOF ENCLOSURE
	SPECIAL PURPOSE RECEPTACLE – FLUSH WALL MOUNTED
	20A, 125V DECORA STYLE DUPLEX RECEPTACLES – FLUSH WALL MOUNTED ABOVE EACH OTHER. TOP RECEPTACLE TO BE MOUNTED AT 48".
	20A, 125V DECORA STYLE HALF SWITCHED DUPLEX RECEPTACLE – FLUSH WALL MOUNTED. BOTTOM HALF OF DUPLEX RECEPTACLE TO BE SWITCHED VIA WALL SWITCH
D	2 HOUR RATED FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE
D V	2 HOUR RATED FLUSH FLOOR MOUNTED COMBINATION DUPLEX RECEPTACLE & VOICE/DATA OUTLET. ROUTE 1 1/4" EMPTY CONDUIT WITH DRAGLINE FOR VOICE/DATA CABLING INTO NEAREST PARTITION AND EXTEND INTO NEAREST ACCESSIBLE CEILING. TERMINATE WITH ANTI–SHORT BUSHING.
D V	2 HOUR RATED FLUSH FLOOR MOUNTED COMBINATION QUADRUPLEX RECEPTACLE & VOICE/DATA OUTLET. ROUTE 1 1/4" EMPTY CONDUIT WITH DRAGLINE FOR VOICE/DATA CABLING INTO NEAREST PARTITION AND EXTEND INTO NEAREST ACCESSIBLE CEILING. TERMINATE WITH ANTI–SHORT BUSHING.
J	CEILING MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
J	FLUSH WALL MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
J	FLUSH FLOOR MOUNTED JUNCTION BOX WITH FINAL EQUIPMENT CONNECTION
	UNFUSED DISCONNECT SWITCH – 30A, 3P, U.O.N.
100A 60A	FUSED DISCONNECT SWITCH – 100 AMP SWITCH, 60 AMP FUSE, UNFUSED (EXCEPT WHERE FUSE SIZE IS INDICATED) 3–POLE (EXCEPT WHERE NOTED)
	COMBINATION MOTOR CONTROLLER AND DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COOR. LOCATION W/MECH. CONT.
CB 100A 60A	CIRCUIT BREAKER 100A FRAME/60A TRIP, 3 POLE, U.O.N. ST – SHUNT TRIP
VFD	VARIABLE FREQUENCY DRIVE (VFD), FURNISHED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR. COORD. LOCATION WITH MECH. CONTRACTOR
TVSS	SURGE SUPPRESSER, LIEBERT ACCUVAR #ACV–277–Y–111–RKE FED WITH 30A/3P C/B MOUNT WITHIN 3ft OF TOTAL WIRE LENGTH FROM SOURCE
FSD	COMBINATION FIRE/SMOKE DAMPER – COORD. LOCATION WITH MECH. CONTRACTOR INTERCONNECT TO FIRE ALARM SYSTEM
M	MOTOR
	PULLBOX, SIZED PER NEC
T	DRY TYPE 480–208V TRANSFORMER DELTA–WYE WITH GROUNDED SECONDARY SIDE, UON.
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
GND	GROUND BAR
	2#12+1#12G–3/4"C FOR ONE CKT. HOMERUN, U.O.N.
	4#12+1#12G–3/4"C FOR TWO CKT. HOMERUN, U.O.N.
	6#12+1#12G–3/4"C FOR THREE CKT. HOMERUN, U.O.N.
	3#12+1#12G–3/4"C HOMERUN, U.O.N.
	CONCEALED CONDUIT
	CONDUIT TURNING UP
	CAPPED CONDUIT
	FLEXIBLE EQUIPMENT CONNECTION
	GROUND CONNECTION
	CIRCUIT BREAKER – MOLDED CASE TYPE
	DRAW OUT TYPE CIRCUIT BREAKER
	FUSED SWITCH, TYPE 'FA' FUSE
	FUSE
	UNFUSED SWITCH – 100 AMP SWITCH
M	UTITLITY METER WITH CT. COMPARTMENT
SUB M	DIGITAL SUB–METER E–MON D–MON 2000 CLASS #480100,200,400,800D KIT, PROVIDE A 20A/3–POLE BREAKER IN LOCAL POWER PANEL
CHIME DB / DB T	DOOR BELL PUSH BUTTON / DOOR BELL CHIME AND ASSOCIATED TRANSFORMER
TV	WALL MOUNTED TELEVISION OUTLET WITH 3/4" EMPTY CONDUIT & DRAG LINE TERMINATED IN A 90° BEND 6" INTO NEAREST ACCESSIBLE CEILING
V	VOICE & DATA OUTLET LOCATION WITH 1" EMPTY CONDUIT & DRAG LINE TERMINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING
$H	ADA "CALL FOR ASSISTANCE" PULL CORD SWITCH, HORN/STROBE & 24V TRANS., EST EDWARDS KIT MODEL #6538–G5
$T	MANUAL STARTER – TOGGLE TYPE WITH THERMAL ELEMENT – 250V HP RATED, FURNISHED BY ELEC CONTRACTOR
	CEILING MOUNTED EDGE–LIT LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP
	WALL MOUNTED EDGE–LIT LED EXIT SIGN WITH EM BATTERY BACKUP
	COMBINATION EMERGENCY LIGHT FIXTURE AND LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP
	WALL MOUNTED EMERGENCY LIGHTING UNIT
	RECESSED CEILING MOUNTED EMERGENCY LIGHTING UNIT
SPD1	SURGE PROTECTION DEVICE, CURRENT TECHNOLOGY #SL32002083YMDTM2F.
SPD2	SURGE PROTECTION DEVICE, CURRENT TECHNOLOGY #TG30502083YMDTM1F.
SPD3	SURGE PROTECTION DEVICE, CURRENT TECHNOLOGY #CG60120208 3GY FED WITH A 60A/3P CIRCUIT BREAKER.
CR	ELECTRICAL CONTRACTOR SHALL PROVIDE A 1" CONDUIT WITH DRAGLINE FOR VOICE/DATA TO MDF ROOM FOR MOTORIZED DOORS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRING AND CONNECTIONS FROM POWER SUPPLY TO MOTOR AND CONTROLS FOR OVERHEAD DOOR. COORDINATE WITH MANUFACTURER FOR ALL CONDUIT, JUNCTION BOXES, AND WIRING REQUIREMENTS. PROVIDE DRAGLINES IN CONDUITS REQUIRED FOR LOW VOLTAGE CABLING.
EPO	EMERGENCY POWER OFF PUSH BUTTON. FOR EMERGENCY POWER SHUTDOWN
R	RELAY
	GENERIC LIGHT FIXTURE TO BE REMOVED
	CORD REEL WITH RECEPTACLE

FIRE ALARM SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
S	CEILING MOUNTED ADDRESSABLE SMOKE DETECTOR CG – DENOTES CAGE GUARD
S	WALL MOUNTED ADDRESSABLE SMOKE DETECTOR
S_{EL}	ELEVATOR RECALL ADDRESSABLE SMOKE DETECTOR
S_{SC}	CEILING MOUNTED ADDRESSABLE COMBINATION SMOKE/CARBON MONOXIDE DETECTOR WITH SOUNDER BASE
H	CEILING MOUNTED ADDRESSABLE THERMAL DETECTOR RATE–OF–RISE
H_{FT}	CEILING MOUNTED FIXED TEMP ADDRESSABLE THERMAL DETECTOR
CO	CEILING MOUNTED ADDRESSABLE CARBON MONOXIDE DETECTOR
D	DUCT SMOKE DETECTOR
TS	SPRINKLER TAMPER SWITCH
WF	SPRINKLER WATER FLOW SWITCH
DGP	FIRE ALARM DATA GATHERING PANEL
FACP	FIRE ALARM CONTROL PANEL WITH EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM
FAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL
FSD	FIRE SMOKE DAMPER
F	COMBINATION FIRE ALARM SPEAKER/STROBE LIGHT UNIT – FLUSH WALL MOUNTED (WITH ADJUSTABLE CANDELA RATING) CG – DENOTES CAGE GUARD #cd – DENOTES CANDELA RATING
F	FIRE ALARM STROBE LIGHT UNIT – FLUSH WALL MOUNTED (WITH ADJUSTABLE CANDELA RATING)
F	FIRE ALARM PULL STATION
DH	DOOR HOLDER RELEASE RELAY – COORDINATE WITH HARDWARE CONSULTANT/VENDOR
MM	FIRE ALARM MONITOR MODULE
CM	FIRE ALARM CONTROL MODULE
FP	FIREFIGHTERS PHONE JACK
L	REMOTE LED INDICATOR LIGHT AND TEST SWITCH FOR SMOKE OR DUCT DETECTOR
F	CEILING MOUNTED SPEAKER STROBE
F	WALL MOUNTED ALARM BELL
F	CEILING MOUNTED STROBE
F	CEILING MOUNTED SPEAKER

LIGHTING CONTROL SYMBOL LIST

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

SYMBOL	DESCRIPTION
$	SINGLE POLE LINE VOLTAGE SWITCH
$3	3–WAY LINE VOLTAGE SWITCH
$K	KEY ACTIVATED LINE VOLTAGE SWITCH, MAINTAIN POSITION nLIGHT #nPODA–KEY–MNTN–XZ
DM	0–10V DIMMING 16A POWER PACK MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING, nLIGHT #nPP16–D–EFP
DM EM	0–10V EMERGENCY POWER PACK MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING, nLIGHT #nPP16–D–ER–EFP
PP	16A POWER PACK MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING, nLIGHT #nPP16–EFP
PP EM	16A POWER PACK MOUNTED IN JUNCTION BOX LOCATED ABOVE FINISHED CEILING, nLIGHT #nPP16–ER–EFP
OS VS	OCCUPANCY/VACANCY SENSOR, CEILING MOUNTED, DUAL TECHNOLOGY, nLIGHT #nCM–PDT–10–RJB – MAJOR MOTION, #nCM–PDT–9–RJB – MINOR MOTION VS – VACANCY SENSOR OPTION OS – OCCUPANCY SENSOR OPTION.
OS	WALL MTD OCCUPANCY SENSOR, nLIGHT #nWV–PDT–16
DS	DAYLIGHT SENSOR, CEILING MOUNTED, nLIGHT #nCM–ADCX–RJB
$LV	WIRED 2–BUTTON SWITCH, nLIGHT #nPODMA
$DS	WIRED 3–BUTTON SWITCH ON/OFF/DIMMING, nLIGHT #nPODMA–DX
$D4	WIRED 4 SCENE CONTROLLER ON/OFF/DIMMING SWITCH, nLIGHT #nPODMA–4S–DX–XX
VS OS	WALL MTD DUAL TECHNOLOGY VACANCY SENSOR DIMMER SWITCH, nLIGHT #nWSXA–PDT–LV–DX–XX
PC	OUTDOOR PHOTOCELL ON/OFF KIT, nLIGHT #nIO–PC–KIT
EC	nLIGHT ECLYPSE HUB, #nECY–MVOLT–BAC–ADR–SVS–XX–ENC–NW–SEP

NOTE: ALL SYMBOLS AND DEVICES ABOVE SHALL USE nLIGHT WIRED PRODUCTS

NEW YORK STATE CODES & STANDARDS

- 2020 BUILDING CODE OF NEW YORK STATE
- 2020 FIRE CODE OF NEW YORK STATE
- 2020 PLUMBING CODE OF NEW YORK STATE
- 2020 MECHANICAL CODE OF NEW YORK STATE
- 2020 FUEL GAS CODE OF NEW YORK STATE
- 2020 NYS UNIFORM CODE SUPPLEMENT
- LOCAL FIRE DEPARTMENT/FIRE MARSHAL
- NYS EDUCATION DEPARTMENT 1998 MANUAL OF PLANNING STANDARDS

NEW YORK STATE ENERGY CODES

- 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- 2016 ASHRAE 90.1

REFERENCED STANDARDS

APPLICABLE REFERENCE STANDARDS SHALL BE AS REFERENCED BY ALL STATE CODES. THE LIST BELOW IS FOR QUICK REFERENCE AND DOES NOT INCLUDE ALL APPLICABLE REFERENCE STANDARDS.

- 2016 NPFA 13 – STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
- 2016 NFPA 14 – STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
- 2016 NFPA 20 – STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
- 2017 NFPA 70 – NATIONAL ELECTRICAL CODE
- 2016 NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE

1

TWO WAY COMMUNICATION SYMBOL LIST

NOTES:
1. PROVIDE ALL CONDUIT AND WIRING BETWEEN BASE STATION AND CALL BOXES AS REQUIRED FOR A COMPLETE CODE COMPLIANT INSTALLATION

SYMBOL	DESCRIPTION
2WB	TWO WAY COMMUNICATION BASE STATION, RATH #2500–210PSS, WITH ENCLOSURE, RATH #2500–210FM, PROVIDE A 120V, 20A DEDICATED CIRCUIT LOCKABLE CIRCUIT BREAKER AND DEDICATED PHONE LINE TO CENTRAL MONITORING STATION
2W	TWO WAY COMMUNICATION CALL BOX, RATH #2100–958SSRC2, WITH DIRECTION SIGN, RATH #7049SS

BI-DIRECTIONAL AMPLIFIER (BDA) SYSTEM SYMBOL LIST

NOTES:
1. REFER TO EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM (ERCES) RISER DIAGRAM FOR ADDITIONAL INFORMATION.

SYMBOL	DESCRIPTION
	LOW PROFILE ANTENNA
	TACTICAL SERIES DIPOLE ANTENNA
BDA	BI–DIRECTIONAL AMPLIFIER (BDA)
BDAA	BI–DIRECTIONAL AMPLIFIER ANNUNCIATOR (BDAA)

ELECTRICAL ABBREVIATIONS

(NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED ON THIS PROJECT)

A	AMPERE	KCM	THOUSAND CIRCULAR MILS
AC	ABOVE COUNTER/CABINET	KS	KITCHEN SHUTTER
AFF	ABOVE FINISHED FLOOR	KV	KILOVOLT
AHJ	AUTHORITY HAVING JURISDICTION	KVA	KILOVOLT AMPERE
AIC	AMP INTERRUPTING CAPACITY	KW	KILOWATT
ATS	AUTOMATIC TRANSFER SWITCH	KWH	KILOWATT HOUR
AUTO	AUTOMATIC	LTG	LIGHTING
AWG	AMERICAN WIRE GAUGE	MAX	MAXIMUM
BLDG	BUILDING	MCB	MAIN CIRCUIT BREAKER
C	CONDUIT	MCC	MOTOR CONTROL CENTER
CB	CIRCUIT BREAKER	MIN	MINIMUM
CCTV	CLOSED CIRCUIT TELEVISION	MTD	MOUNTED
CKT	CIRCUIT	N	NEUTRAL
CU	CARBON MONOXIDE	NIC	NOT IN CONTRACT
COMM	COMMUNICATION	NL	NIGHT LIGHTING
CT	CURRENT TRANSFORMER	NTS	NOT TO SCALE
CU	COPPER	OC	ON CENTER
DEG	DEGREE	P	POLE
DGP	DATA GATHERING PANEL	ø or PH	PHASE
DISC	DISCONNECT	PNL	PANEL
DO	DOWN	PWR	POWER
DWG	DRAWING	R	REPLACED EXISTING
E/EX	EXISITNG TO REMAIN	RE	RELOCATED EXISTING
EC	ELECTRICAL CONTRACTOR	RECEPT	RECEPTACLE
EM	EMERGENCY	SD	SMOKE DAMPER
ER	EXISTING TO BE REMOVED	TEL	TELEPHONE
ERR	EXISTING TO BE REMOVED AND RELOCATED	TOS	TOP OF SHAFT
FA	FIRE ALARM	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FL	FLOOR	UON	UNLESS OTHERWISE NOTED
FS	FAN SHUTDOWN	UV	UNIT VENTILATOR
FSD	FIRE SMOKE DAMPER	V	VOLT OR VOLTAGE
FT	FEET OR FOOT	VA	VOLT AMPERE
GRD	GROUND	VIF	VERIFY IN FIELD
GFI	GROUND FAULT INTERRUPTER	W	WATT
HID	HIGH INTENSITY DISCHARGE	WP	WEATHERPROOF
HP	HORSE POWER	WT	WATERTIGHT
HZ	HERTZ	XP	EXPLOSION PROOF
JB	JUNCTION BOX		

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMP	WATTS	VOLTS	CONTROL	REMARKS
F1	1X4 LED EDGE LIT PANEL	METALUX 1AFPSL2SCT3-3500K-MID	LED 3500K 3050 LM	27	UNV		
F2	2X2 LED EDGE LIT PANEL	METALUX 2AFPSL2SCT3-3500K-MID	LED 3500K 2400 LM	21.6	UNV		
F3	2X4 LED EDGE LIT PANEL	METALUX 2AFPSL2SCT3-3500K-MID	LED 3500K 4550 LM	40.2	UNV		
F4	4 FT. WALL MOUNT LED	METALUX 4SWLED-3SSL-LW-UNV-L835-CD1-U	LED 3500K 3200 LM		UNV	0-10V	
F5	4 FT. LED STRIP LIGHT	METALUX 4SLSTPSLC-UNV-MID-3500K	LED 3500K 3534 LM	31	UNV	0-10V	
F6	8 FT. LED STRIP LIGHT	METALUX 8SLSTPSLC-UNV-MID-3500K	LED 3500K 7782 LM	64	UNV	0-10V	
F7	4 IN. LED DOWNLIGHT	HALO HCSQ415D010-HM40525835-41SQC	LED 3500K 1500 LM 80 CRI	64	UNV	0-10V	
G1	SUSPENDED LINEAR, 2.5" SQUARE PROFILE x LENGTHS PER DRAWING, WITH DIRECT/INDIRECT BATWING DISTRIBUTION, WOOD FINISH TBD, AND REMOTE DIMMING DRIVER.	LIGHTLY CRESCENT LENS CLN-XX'-TBDFINISH-A-BL-L-35-R	LED 3500K 717 LM/FT 90 CRI	6/FT	UNV	0-10V	PROVIDE LENGTHS AS INDICATED ON DRAWING SUBMIT AS SPECIFIED. NO KNOWN EQUAL.
G2	REGRESSED PERIMETER LINEAR SLOT, 4"W x LENGTHS PER DRAWING, WITH 4" REGRESS, WHITE GRID FLANGE, TELESCOPING ENDCAP, AND INTEGRAL DIMMING DRIVER.	FINELITE HP-WS-4W-4D-XX'-B-835-SW-120-SC-FC10%-TR-TBDGRID-FEL-TXLR-SW OR EQUAL BY FOCAL POINT OR LUMENWERX	LED 3500K 398 LM/FT 80 CRI	5/FT	120	0-10V	PROVIDE LENGTHS PER DRAWING
G3	RECESSED DOWNLIGHT, 3" SQUARE, WITH 50 DEGREE BEAM, SOLITE LENS, MATTE WHITE BEVEL, AND INTEGRAL DIMMING DRIVER	LUMENWERX AERA 3" DOWNLIGHT AE3SR-TRM-SW-OF-ASB-UNV-14W-D1-NA AE3SRB-SW-14W-50DEG-2STP-80CRI-35K-TRM-SDL-FTMW-FTMW OR EQUAL BY FOCAL POINT	LED 3500K 1545 LM 80 CRI	14	UNV	0-10V	
G3A	SAME AS TYPE G3, EXCEPT ADJUSTABLE	LUMENWERX AERA 3" DOWNLIGHT AE3SRA-TRM-SW-OF-ASB-UNV-14W-D1-NA AE3SRAB-SW-14W-50DEG-2STP-80CRI-35K-TRM-SDL-FTMW-FTMW OR EQUAL BY FOCAL POINT	LED 3500K 1352 LM 80 CRI	14	UNV	0-10V	
G4	SUSPENDED LINEAR, 1.67"W x 3.5"H x LENGTHS PER DRAWING, WITH DIRECT BATWING DISTRIBUTION, TBD FINISH, PARTIAL DAYLIGHT CONTROL, AND INTEGRAL 1% DIMMING DRIVER.	FOCAL POINT SEEM 1 FSM1S-BW-625LF-30K-2CT-UNV-LD11-C4B-TBDFINISH-XXFT OR EQUAL BY LUMENWERX.	LED 3500K 625 LM/FT 80 CRI	6/FT	UNV	0-10V	PROVIDE LENGTHS AS INDICATED ON DRAWING. PROVIDE DAYLIGHT ZONE AS REQUIRED ON ELECTRICAL DRAWING, TO BE SWITCHED WITH NON-DAYLIGHT ZONE.
G5	RECESSED LINEAR, 1.67"W x LENGTHS PER DRAWING, WITH BATWING DISTRIBUTION, WHITE FLANGE FINISH, AND INTEGRAL 1% DIMMING DRIVER.	FOCAL POINT SEEM 1 FSM1-BW-375LF-30K-1CT-UNV-LD11-XFN-WH-XXFT OR EQUAL BY LUMENWERX	LED 3500K 375 LM/FT 80 CRI	3/FT	UNV	0-10V	PROVIDE LENGTHS PER DRAWING
G6	SURFACE MOUNTED LINEAR WALLWASHER, WITH REMOTE DRIVER	PURE EDGE CIRRUS CEILING CCWSH-SW-1R-XX'-35K-WH POWER SUPPLY PSB-XXW-UNI-24VDC-TBD	LED 3500K	5/FT	UNV	0-10V	PROVIDE LENGTHS PER DRAWING. REMOTE DRIVER LOCATED IN ACCESSSIBLE LOCATION WITH AIRFLOW, OUT OF DIRECT VIEW. SUBMIT AS SPECIFIED.
G7	WALL MOUNTED LINEAR, 2.25"W x 4"H x LENGTHS PER DRAWING, WITH 6° ARM, DIRECT OUTPUT, FLUSH LENS, WHITE FINISH, AND INTEGRAL DIMMING DRIVER.	FINELITE HP-2-AM-D-XX'-S-835-F-96LG-120-SC-FC10%-AM6-FE-SW OR EQUAL BY LUMENWERX	LED 3500K	4/FT	120	0-10V	PROVIDE LENGTHS AS INDICATED ON DRAWING
G8	SURFACE MOUNTED LINEAR UNDERCABINET, 0.67"W x 0.31"H x LENGTHS PER DRAWING, WITH FROSTED LENS, WHITE FINISH, AND REMOTE DIMMING DRIVER.	DIODE LED BLAZE/SLIM DI-24V-BLBSC2-35-XXFT-WH-SW DI-CHB-S1-WH DI-ODX-24V120W-J	LED 3500K 200 LM/FT 90 CRI	3/FT	UNV/24	0-10V	PROVIDE LENGTHS AS INDICATED ON DRAWING
G9	SUSPENDED LINEAR CONFIGURATION WITH THREE SPOKES, 4' DIA, WITH 1.67"W x 3.5"H PROFILE, DIRECT BATWING DISTRIBUTION, TBD FINISH, AND INTEGRAL 1% DIMMING DRIVER.	FOCAL POINT SEEM 1 TRIO FSM1FP-T-4-BW-3750-35K-UNV-LD11-CC96-TBDFINISH OR APPROVED EQUAL BY LUMENWERX	LED 3500K	37	UNV	0-10V	MOUNT FLUSH WITH ACOUSTIC PAD
G10	RECESSED LINEAR, 1.67"W x LENGTHS PER DRAWING, WITH BATWING DISTRIBUTION, GRID MOUNT, WHITE FINISH, AND INTEGRAL DIMMING DRIVER.	FOCAL POINT SEEM 1 FSM1-BW-625LF-30K-1C-UNV-LD1-TBDGRID-WH-XXFT OR EQUAL BY LUMENWERX	LED 3500K 625 LM/FT 80 CRI	5/FT	UNV	0-10V	PROVIDE LENGTHS PER DRAWING
G11	SUSPENDED LINEAR, 7.5" W x 3.5"H IN SQUARE CONFIGURATIONS PER DRAWING, WITH DIRECT ASYMMETRIC DISTRIBUTION, AND INDIRECT BATWING DISTRIBUTION, TBD FINISH, AND INTEGRAL 1% DIMMING DRIVER.	FOCAL POINT SEEM 1 FSM1BS-BWAS-250DN-250UP-35K1C-UNV-LD11-C4B-TBDFINISH-SQXXXJXX OR EQUAL BY LUMENWERX	LED 3500K 500 LM/FT 80 CRI	5/FT	UNV	0-10V	PROVIDE CONFIGURATIONS AS INDICATED ON DRAWING
G12	RECESSED 2X4, WITH WHITE FINISH, AND INTEGRAL 1% DIMMING DRIVER.	COLUMBIA VERSIFY VSY24-35-MLHE-G-ED1-U	LED 3500K 4810 LM 80 CRI	37	UNV	0-10V	
G13	RECESSED LINEAR, 1.67"W x LENGTHS PER DRAWING, WITH BATWING DISTRIBUTION, GRID MOUNT, WHITE FINISH, AND INTEGRAL 1% DIMMING DRIVER.	FOCAL POINT SEEM 1 FSM1-BW-625LF-30K-1C-UNV-LD11-TBDGRID-WH-XXFT OR EQUAL BY LUMENWERX	LED 3500K 625 LM/FT 80 CRI	5/FT	UNV	0-10V	PROVIDE LENGTHS PER DRAWING ARCHITECT TO CEILING SYSTEM
G14	RECESSED 2X2, WITH INDIRECT ASYMMETRIC LIGHT SOURCE, REFLECTOR TILE BY OTHERS, WHITE FINISH, AND INTEGRAL DIMMING DRIVER.	ALIGHT LEAN LEAN-I-LS-35-CRI-U-AWF-D	LED 3500K 1968 LM 90 CRI	28	UNV	0-10V	CONTRACTOR TO PROVIDE MATCHING 2X2 CEILING TILE FOR REFLECTOR INSERT. ORIENT FIXTURES TOWARD MURAL.
EX	EMERGENCY/EXIT COMBO	LITHONIA LHQM LED R	LED	3	UNV		CONTRACTOR TO COORDINATE DIRECTIONAL INDICATOR. PROVIDE ALL MOUNTING OPTIONS.
EM	EMERGENCY LIGHT FIXTURE	LITHONIA ELM4L B	LED	3	UNV		
X1	LED EDGE-LIT EXIT SIGN	LITHONIA LRP (1/2) RMR 120/277 EL N	LED	2.3	UNV		CONTRACTOR TO COORDINATE DIRECTIONAL INDICATOR. PROVIDE ALL MOUNTING OPTIONS.
X2	LED CAST ALUMINUM EXIT SIGN	LITHONIA LQC (1/2) R EL N	LED	0.7	UNV		CONTRACTOR TO COORDINATE DIRECTIONAL INDICATOR. PROVIDE ALL MOUNTING OPTIONS.
X3	EXTERIOR WALL PACK	LITHONIA ARC1 LED P2 40K MVOLT E4WH PE DDBTXD	LED 4000K 2151 LM	17	UNV		INTEGRAL 90 MIN EM BATTERY. PHOTOCELL FOR DUSK TO DAWN OPERATION.

ELECTRICAL DRAWING LIST

Sheet Number	Sheet Title
E001	ELECTRICAL COVER SHEET
E002	ELECTRICAL NOTES
ED100	ELECTRICAL DEMOLITION PLAN - SUB-BASEMENT
ED101	ELECTRICAL DEMOLITION PLAN - BASEMENT
ED102-A	ELECTRICAL DEMOLITION PLAN - GROUND FLOOR - AREA A
ED102-B	ELECTRICAL DEMOLITION PLAN - GROUND FLOOR - AREA B
ED103-A	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR - AREA A
ED103-B	ELECTRICAL DEMOLITION PLAN - FIRST FLOOR - AREA B
ED104-A	ELECTRICAL DEMOLITION PLAN - SECOND FLOOR - AREA A
ED104-B	ELECTRICAL DEMOLITION PLAN - SECOND FLOOR - AREA B
ED105	ELECTRICAL DEMOLITION PLAN - THIRD FLOOR
E099	ELECTRICAL SITE PLAN
E100	ELECTRICAL POWER PLAN - SUB-BASEMENT
E101	ELECTRICAL POWER PLAN - BASEMENT
E102-A	ELECTRICAL POWER PART PLAN - GROUND FLOOR - AREA A
E102-B	ELECTRICAL POWER PART PLAN - GROUND FLOOR - AREA B
E103-A	ELECTRICAL POWER PART PLAN - FIRST FLOOR - AREA A
E103-B	ELECTRICAL POWER PART PLAN - FIRST FLOOR - AREA B
E104-A	ELECTRICAL POWER PART PLAN - SECOND FLOOR - AREA A
E104-B	ELECTRICAL POWER PART PLAN - SECOND FLOOR - AREA B
E105	ELECTRICAL POWER PLAN - THIRD FLOOR
E106-A	ELECTRICAL POWER PART PLAN - ROOF - AREA A
E106-B	ELECTRICAL POWER PART PLAN - ROOF - AREA B
E200	ELECTRICAL LIGHTING PLAN - SUB-BASEMENT
E201	ELECTRICAL LIGHTING PLAN - BASEMENT
E202-A	ELECTRICAL LIGHTING PART PLAN - GROUND FLOOR - AREA A
E202-B	ELECTRICAL LIGHTING PART PLAN - GROUND FLOOR - AREA B
E203-A	ELECTRICAL LIGHTING PART PLAN - FIRST FLOOR - AREA A
E203-B	ELECTRICAL LIGHTING PART PLAN - FIRST FLOOR - AREA B
E204-A	ELECTRICAL LIGHTING PART PLAN - SECOND FLOOR - AREA A
E204-B	ELECTRICAL LIGHTING PART PLAN - SECOND FLOOR - AREA B
E205	ELECTRICAL LIGHTING PLAN - THIRD FLOOR
E501	ELECTRICAL RISER DIAGRAM
E502	FIRE ALARM RISER DIAGRAM
E601	ELECTRICAL PANEL SCHEDULE SHEET1
E602	ELECTRICAL PANEL SCHEDULE SHEET2
E603	ELECTRICAL PANEL SCHEDULES SHEET3
E701	ELECTRICAL DETAILS SHEET 1
E702	ELECTRICAL DETAILS SHEET 2

PUBLIC SCHOOLS OF THE TARRYTOWNS

2024 CAPITAL BOND PROJECT - PHASE 2

WASHINGTON IRVING INTERMEDIATE SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

HAZARDOUS MATERIALS CONSULTANT
QUALITY ENVIRONMENTAL SOLUTIONS & TECHOLOGIES, INC
1376 ROUTE 9
WAPPINGERS FALLS, NY 12590
845.298.6031

STRUCTURAL CONSULTANT
RYAN BIGGS I CLARK DAVIS ENGINEERING & SURVEYING DPC
257 USHERS ROAD
CLIFTON PARK, NY 12065
518.406.5506

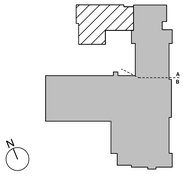
MEP CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905
203.352.1717

SITE - CIVIL CONSULTANT
THE LA GROUP
40 LONG ALLEY
SARATOGA SPRING, NY 12866

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING LLC
992 BEDFORD STREET
BRIDGEWATER, MA. 02324

ISSUE	DATE
⚠1 ADDENDUM #6	04/24/2026
ISSUED FOR BID	03/27/2026

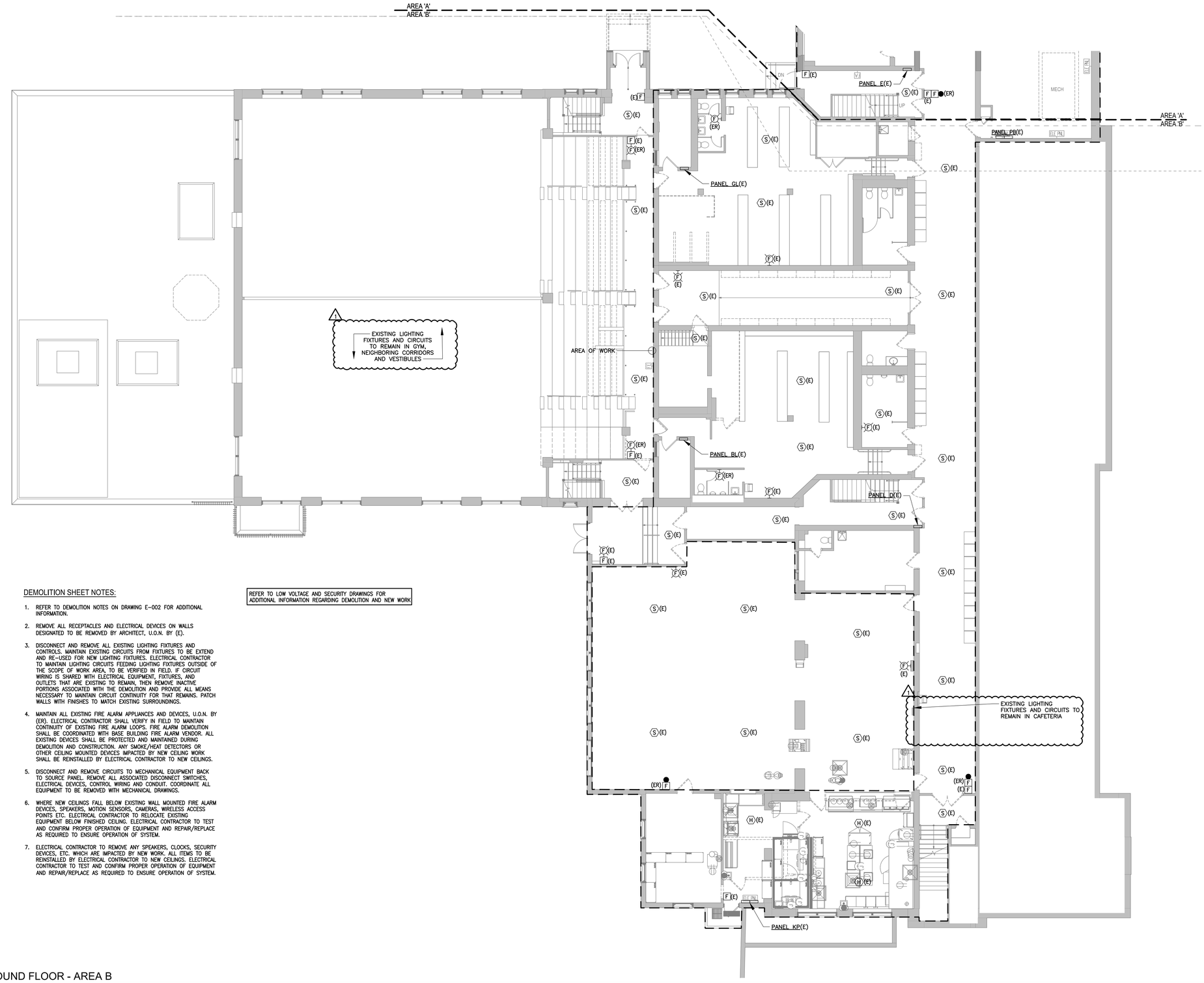
KEY PLAN



SED PROJECT NO.	28-05-01-06-1-009-XXX
MEMASI PROJECT NO.	101-2403

ELECTRICAL COVER SHEET

E001



DEMOLITION SHEET NOTES:

1. REFER TO DEMOLITION NOTES ON DRAWING E-002 FOR ADDITIONAL INFORMATION.
2. REMOVE ALL RECEPTACLES AND ELECTRICAL DEVICES ON WALLS DESIGNATED TO BE REMOVED BY ARCHITECT, U.O.N. BY (E).
3. DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES AND CONTROLS. MAINTAIN EXISTING CIRCUITS FROM FIXTURES TO BE EXTEND AND RE-USED FOR NEW LIGHTING FIXTURES. ELECTRICAL CONTRACTOR TO MAINTAIN LIGHTING CIRCUITS FEEDING LIGHTING FIXTURES OUTSIDE OF THE SCOPE OF WORK AREA, TO BE VERIFIED IN FIELD. IF CIRCUIT WIRING IS SHARED WITH ELECTRICAL EQUIPMENT, FIXTURES, AND OUTLETS THAT ARE EXISTING TO REMAIN, THEN REMOVE INACTIVE PORTIONS ASSOCIATED WITH THE DEMOLITION AND PROVIDE ALL MEANS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY FOR THAT REMAINS. PATCH WALLS WITH FINISHES TO MATCH EXISTING SURROUNDINGS.
4. MAINTAIN ALL EXISTING FIRE ALARM APPLIANCES AND DEVICES, U.O.N. BY (ER). ELECTRICAL CONTRACTOR SHALL VERIFY IN FIELD TO MAINTAIN CONTINUITY OF EXISTING FIRE ALARM LOOPS. FIRE ALARM DEMOLITION SHALL BE COORDINATED WITH BASE BUILDING FIRE ALARM VENDOR. ALL EXISTING DEVICES SHALL BE PROTECTED AND MAINTAINED DURING DEMOLITION AND CONSTRUCTION. ANY SMOKE/HEAT DETECTORS OR OTHER CEILING MOUNTED DEVICES IMPACTED BY NEW CEILING WORK SHALL BE REINSTALLED BY ELECTRICAL CONTRACTOR TO NEW CEILINGS.
5. DISCONNECT AND REMOVE CIRCUITS TO MECHANICAL EQUIPMENT BACK TO SOURCE PANEL. REMOVE ALL ASSOCIATED DISCONNECT SWITCHES, ELECTRICAL DEVICES, CONTROL WIRING AND CONDUIT. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH MECHANICAL DRAWINGS.
6. WHERE NEW CEILINGS FALL BELOW EXISTING WALL MOUNTED FIRE ALARM DEVICES, SPEAKERS, MOTION SENSORS, CAMERAS, WIRELESS ACCESS POINTS ETC. ELECTRICAL CONTRACTOR TO RELOCATE EXISTING EQUIPMENT BELOW FINISHED CEILING. ELECTRICAL CONTRACTOR TO TEST AND CONFIRM PROPER OPERATION OF EQUIPMENT AND REPAIR/REPLACE AS REQUIRED TO ENSURE OPERATION OF SYSTEM.
7. ELECTRICAL CONTRACTOR TO REMOVE ANY SPEAKERS, CLOCKS, SECURITY DEVICES, ETC. WHICH ARE IMPACTED BY NEW WORK. ALL ITEMS TO BE REINSTALLED BY ELECTRICAL CONTRACTOR TO NEW CEILINGS. ELECTRICAL CONTRACTOR TO TEST AND CONFIRM PROPER OPERATION OF EQUIPMENT AND REPAIR/REPLACE AS REQUIRED TO ENSURE OPERATION OF SYSTEM.

REFER TO LOW VOLTAGE AND SECURITY DRAWINGS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION AND NEW WORK

ELECTRICAL DEMOLITION PLAN - GROUND FLOOR - AREA B
1/8" = 1'-0"

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

HAZARDOUS MATERIALS CONSULTANT
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1376 ROUTE 9
WAPPINGERS FALLS, NY 12590
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RYAN BIGGS I CLARK DAVIS ENGINEERING & SURVEYING DPC
257 USHERS ROAD
CLIFTON PARK, NY 12065
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MEP CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
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SITE - CIVIL CONSULTANT
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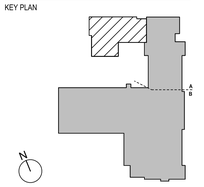
KEY PLAN



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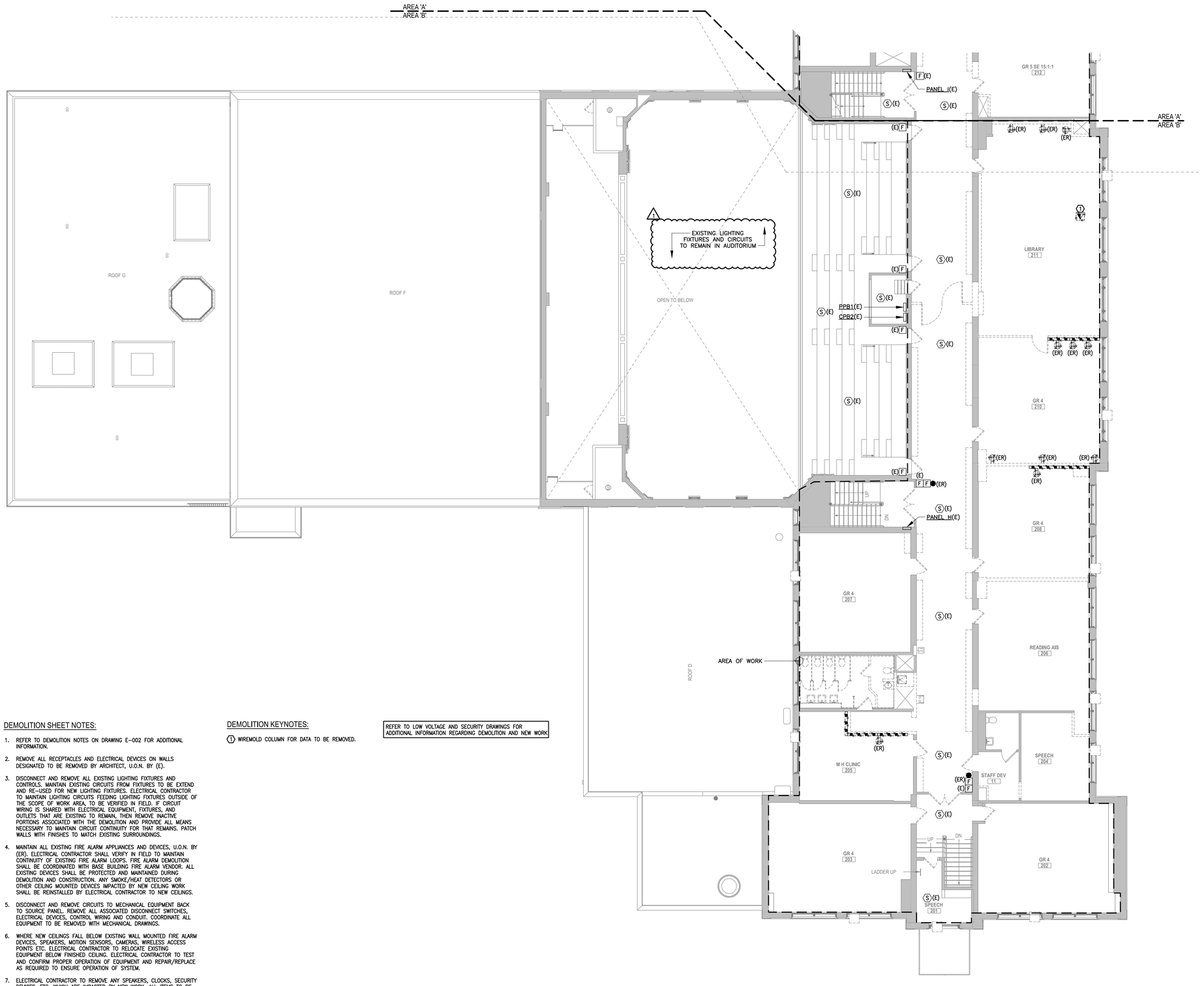
MEMASI PROJECT NO.	101-2403

ELECTRICAL DEMOLITION PLAN - GROUND FLOOR - AREA B

ED102-B



DEMOLITION SHEET NOTES:

1. REFER TO DEMOLITION NOTES ON DRAWING E-002 FOR ADDITIONAL INFORMATION.
2. REMOVE ALL RECEPTACLES AND ELECTRICAL DEVICES ON WALLS DESIGNATED TO BE REMOVED BY ARCHITECT, U.O.N. BY (E).
3. DISCONNECT AND REMOVE ALL EXISTING LIGHTING FIXTURES AND CONTROLS. MAINTAIN EXISTING CIRCUITS FROM FIXTURES TO BE EXTEND AND RE-USED FOR NEW LIGHTING FIXTURES. ELECTRICAL CONTRACTOR TO MAINTAIN LIGHTING CIRCUITS FEEDING LIGHTING FIXTURES OUTSIDE OF THE SCOPE OF WORK AREA, TO BE VERIFIED IN FIELD. IF CIRCUIT WIRING IS SHARED WITH ELECTRICAL EQUIPMENT, FIXTURES, AND OUTLETS THAT ARE EXISTING TO REMAIN, THEN REMOVE INACTIVE PORTIONS ASSOCIATED WITH THE DEMOLITION AND PROVIDE ALL MEANS NECESSARY TO MAINTAIN CIRCUIT CONTINUITY FOR THAT REMAINS. PATCH WALLS WITH FINISHES TO MATCH EXISTING SURROUNDINGS.
4. MAINTAIN ALL EXISTING FIRE ALARM APPLIANCES AND DEVICES, U.O.N. BY (ER). ELECTRICAL CONTRACTOR SHALL VERIFY IN FIELD TO MAINTAIN CONTINUITY OF EXISTING FIRE ALARM LOOPS. FIRE ALARM DEMOLITION SHALL BE COORDINATED WITH BASE BUILDING FIRE ALARM VENDOR. ALL EXISTING DEVICES SHALL BE PROTECTED AND MAINTAINED DURING DEMOLITION AND CONSTRUCTION. ANY SMOKE/HEAT DETECTORS OR OTHER CEILING MOUNTED DEVICES IMPACTED BY NEW CEILING WORK SHALL BE REINSTALLED BY ELECTRICAL CONTRACTOR TO NEW CEILINGS.
5. DISCONNECT AND REMOVE CIRCUITS TO MECHANICAL EQUIPMENT BACK TO SOURCE PANEL. REMOVE ALL ASSOCIATED DISCONNECT SWITCHES, ELECTRICAL DEVICES, CONTROL WIRING AND CONDUIT. COORDINATE ALL EQUIPMENT TO BE REMOVED WITH MECHANICAL DRAWINGS.
6. WHERE NEW CEILINGS FALL BELOW EXISTING WALL MOUNTED FIRE ALARM DEVICES, SPEAKERS, MOTION SENSORS, CAMERAS, WIRELESS ACCESS POINTS ETC. ELECTRICAL CONTRACTOR TO RELOCATE EXISTING EQUIPMENT BELOW FINISHED CEILING. ELECTRICAL CONTRACTOR TO TEST AND CONFIRM PROPER OPERATION OF EQUIPMENT AND REPAIR/REPLACE AS REQUIRED TO ENSURE OPERATION OF SYSTEM.
7. ELECTRICAL CONTRACTOR TO REMOVE ANY SPEAKERS, CLOCKS, SECURITY DEVICES, ETC. WHICH ARE IMPACTED BY NEW WORK. ALL ITEMS TO BE REINSTALLED BY ELECTRICAL CONTRACTOR TO NEW CEILINGS. ELECTRICAL CONTRACTOR TO TEST AND CONFIRM PROPER OPERATION OF EQUIPMENT AND REPAIR/REPLACE AS REQUIRED TO ENSURE OPERATION OF SYSTEM.

DEMOLITION KEYNOTES:

(1) WIREMOLD COLUMN FOR DATA TO BE REMOVED.

REFER TO LOW VOLTAGE AND SECURITY DRAWINGS FOR ADDITIONAL INFORMATION REGARDING DEMOLITION AND NEW WORK

ELECTRICAL DEMOLITION PLAN - SECOND FLOOR - AREA B
1/8" = 1'-0"

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ARCHITECT
MEMASI
2 LYON PLACE
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QUALITY ENVIRONMENTAL SOLUTIONS & TECHOLOGIES, INC
1376 ROUTE 9
WAPPINGERS FALLS, NY 12590
845.298.6031

STRUCTURAL CONSULTANT
RYAN BIGGS I CLARK DAVIS ENGINEERING & SURVEYING DPC
257 USHERS ROAD
CLIFTON PARK, NY 12065
518.406.5506

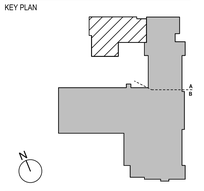
MEP CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905
203.352.1717

SITE - CIVIL CONSULTANT
THE LA GROUP
40 LONG ALLEY
SARATOGA SPRING, NY 12866

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING LLC
992 BEDFORD STREET
BRIDGEWATER, MA. 02324

ISSUE	DATE
⚠ ADDENDUM #6	04/24/2026
ISSUED FOR BID	03/27/2026

KEY PLAN



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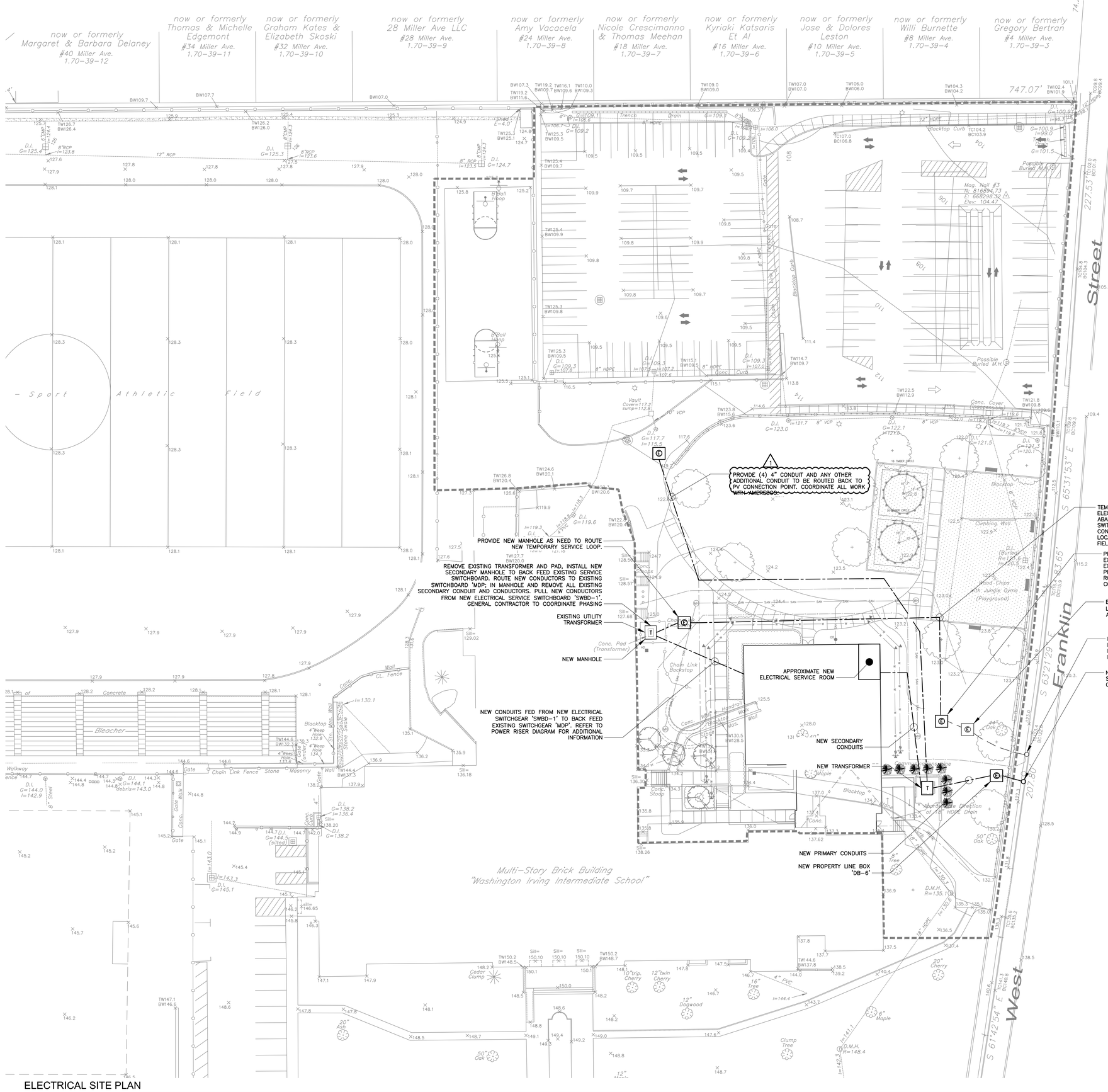
ELECTRICAL DEMOLITION PLAN - SECOND FLOOR - AREA B

ED104-B



ELECTRICAL SITE PLAN

1" = 20'-0"

ELECTRICAL UTILITY COORDINATION NOTES:

1. TEMPORARY ELECTRICAL SERVICE:

1.1. THE ELECTRICAL CONTRACTOR SHALL INTERCEPT AND SPLICE THE EXISTING UTILITY SERVICE PRIMARY FEEDERS FROM THE EXISTING MANHOLE AND ROUTE A NEW TEMPORARY PRIMARY ELECTRICAL SERVICE BACK TO THE EXISTING UTILITY TRANSFORMER. PROVIDE A NEW MANHOLE WHERE THE EXISTING MANHOLE IS NOT ADEQUATE TO PERFORM REQUIRED SPLICING OF THE EXISTING UTILITY FEEDERS.

1.2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT ROUTING OF THE NEW TEMPORARY PRIMARY SERVICE IN THE FIELD AND PROVIDE ADDITIONAL MANHOLES AS REQUIRED TO COMPLETE ROUTING AROUND THE FOOTPRINT OF THE NEW ADDITION, AVOIDING ALL EXISTING AND NEW BUILDING SERVICES.

1.3. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE EXISTING SERVICE CONDUCTORS AND CONDUITS AND PROVIDE NEW CONDUCTORS AND CONDUITS OF LIKE TYPE, SIZE, AND MATERIAL TO BE ROUTED TO THE PRIMARY SIDE OF THE EXISTING UTILITY TRANSFORMER.

1.4. THE ELECTRICAL CONTRACTOR SHALL CONNECT THE NEW TEMPORARY PRIMARY SERVICE CONDUCTORS TO THE EXISTING TRANSFORMER AND SPLICE THE EXISTING PRIMARY FEEDERS IN ORDER TO BACKFEED THE SCHOOL.

1.5. THE EXISTING TEMPORARY ELECTRICAL SERVICE LOOP SHALL REMAIN ACTIVE UNTIL THE NEW SWITCHGEAR AND DISTRIBUTION SYSTEM ARE FULLY INSTALLED, ENERGIZED, AND OPERATIONAL. THE TEMPORARY SERVICE SHALL THEN BE ABANDONED IN PLACE ONCE THE NEW PERMANENT SERVICE IS ACTIVE.

2. NEW ELECTRICAL SERVICE:

2.1. CON EDISON SHALL PROVIDE A NEW UTILITY POLE ON FRANKLIN STREET AND ROUTE NEW PRIMARY SERVICE DOWN THE UTILITY POLE AND INTO A NEW CON EDISON SPECIFIED UTILITY MANHOLE. COORDINATE EXACT POLE AND MANHOLE LOCATIONS WITH CON EDISON. ELECTRICAL CONTRACTOR SHALL PROVIDE THE NEW MANHOLE FOR CON EDISON PRIMARY FEEDER TERMINATIONS.

2.2. THE ELECTRICAL CONTRACTOR SHALL ROUTE NEW PRIMARY SERVICE CONDUCTORS FROM THE NEW UTILITY MANHOLE TO THE TRANSFORMER.

2.3. THE ELECTRICAL CONTRACTOR SHALL ROUTE TRANSFORMER SECONDARY FEEDERS TO THE NEW ELECTRICAL ROOM AND TERMINATE INTO THE NEW SWITCHGEAR.

2.4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE NEW CONDUIT AND FEEDERS FROM THE NEW ELECTRICAL ROOM TO BACKFEED THE EXISTING SWITCHGEAR. ROUTE NEW FEEDERS FROM THE NEW ELECTRICAL ROOM THROUGH THE BASEMENT OF THE NEW ADDITION, EXITING THE BUILDING AND EXTENDING TO THE EXISTING TRANSFORMER LOCATION.

2.5. CON EDISON SHALL REMOVE THE EXISTING TRANSFORMER. COORDINATE THE SERVICE SWITCHOVER WITH CON EDISON. PROVIDE A NEW MANHOLE AT THE EXISTING TRANSFORMER LOCATION FOR ROUTING NEW CONDUCTORS.

2.6. REFER TO CONDUIT AND FEEDER SIZES AND ANY OTHER ADDITIONAL INFORMATION ON THE POWER RISER DIAGRAM DRAWING, E-501.

3. SHUTDOWNS:

3.1. COORDINATE ALL SHUTDOWNS AND TIE OVERS WITH CON EDISON AND BUILDING MANAGEMENT.

ELECTRICAL SITE LIGHTING PLAN NOTES:

1. REFER TO CIVIL UTILITY DRAWINGS FOR ELECTRICAL UTILITY PRIMARY AND SECONDARY SERVICE DISTRIBUTION AND EQUIPMENT. ALSO REFER TO ELECTRICAL POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
2. ELECTRICAL CONTRACTOR SHALL REFER TO LANDSCAPE SITE PLAN FOR EXACT LOCATIONS AND SPECIFICATIONS OF LIGHT FIXTURES.
3. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT ROUTING OF CONDUITS IN FIELD DURING CONSTRUCTION. REFER TO CIVIL DRAWINGS FOR APPROXIMATE CONDUIT ROUTING.
4. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL AND DIGITAL TIME CLOCK. PROVIDE RELAY CONTACTOR PANEL AS REQUIRED. COORDINATE EXACT TIME SETTING WITH OWNER.
5. ALL EXTERIOR POWER AND LIGHTING CIRCUIT SHALL BE A MINIMUM OF 2#8 + 1#10 GND IN 1-1/2" PVC CONDUIT. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGE DROP OF CIRCUITS IN FIELD AND MAINTAIN 2% MAX VOLTAGE DROP.
6. ALL CONDUIT SHALL BE SCHEDULE 40 PVC AND BURIED 24" MINIMUM BELOW GRADE, U.O.N. UTILITY SERVICE PRIMARY AND SECONDARY CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUITS PER CON ED REQUIREMENTS.
7. TRENCHING FOR CONDUITS SHALL BE KEPT TO A MINIMUM WIDTH TO ACCOMMODATE ONLY THE NUMBER OF CONDUITS REQUIRED. A RED CAUTION TAPE SHALL BE PLACED ALONG THE LENGTH OF THE TRENCH AT A MINIMUM OF 6-10" BELOW FINISHED GRADE BUT NO CLOSER THAN 12" TO THE BURIED CONDUITS. UNDERGROUND-TYPE PLASTIC LINE MAKER NOT LESS THAN 6 WIDE AND 4 MILS THICK.
8. MATERIAL FOR BACKFILLING SHALL BE EARTH MATERIALS ENTIRELY FREE FROM VEGETATION, TRASH, LUMBER, AND FROZEN, SOFT OR ORGANIC MATERIALS. NO STONES OR ROCK LARGER THAN 1" WILL BE PERMITTED IN THE FILL.
9. ELECTRICAL CONTRACTOR SHALL PROVIDE HAND HOLES EVERY 200' SIZED PER NEC. NO MORE THAN (4) 90 DEGREE BENDS SHALL BE ALLOWED WITHOUT A HANDHOLE. ALL HANDHOLES SHALL BE H-20 RATED IN DRIVABLE AREAS. ELECTRICAL HANDHOLES SHALL HAVE A COVER PLATE READING "ELECTRIC" WITH CIRCUIT DESIGNATION INDICATED INSIDE.
10. REFER TO ELECTRICAL GROUND LEVEL LIGHTING PLAN FOR EXTERIOR BUILDING MOUNTED LIGHTING.
11. COORDINATE ALL PV INSTALLATION REQUIREMENTS WITH AMERESCO AND SITE CIVIL ENGINEERS.

PUBLIC SCHOOLS OF THE TARRYTOWNS

2024 CAPITAL BOND PROJECT - PHASE 2

WASHINGTON IRVING INTERMEDIATE SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

HAZARDOUS MATERIALS CONSULTANT
QUALITY ENVIRONMENTAL SOLUTIONS & TECHOLOGIES, INC
1376 ROUTE 9
WAPPINGERS FALLS, NY 12590
845.298.6031

STRUCTURAL CONSULTANT
RYAN BIGGS I CLARK DAVIS ENGINEERING & SURVEYING DPC
257 USHERS ROAD
CLIFTON PARK, NY 12065
518.406.5506

MEP CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905
203.352.1717

SITE - CIVIL CONSULTANT
THE LA GROUP
40 LONG ALLEY
SARATOGA SPRING, NY 12866

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING LLC
992 BEDFORD STREET
BRIDGEWATER, MA. 02324

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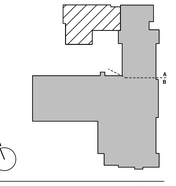

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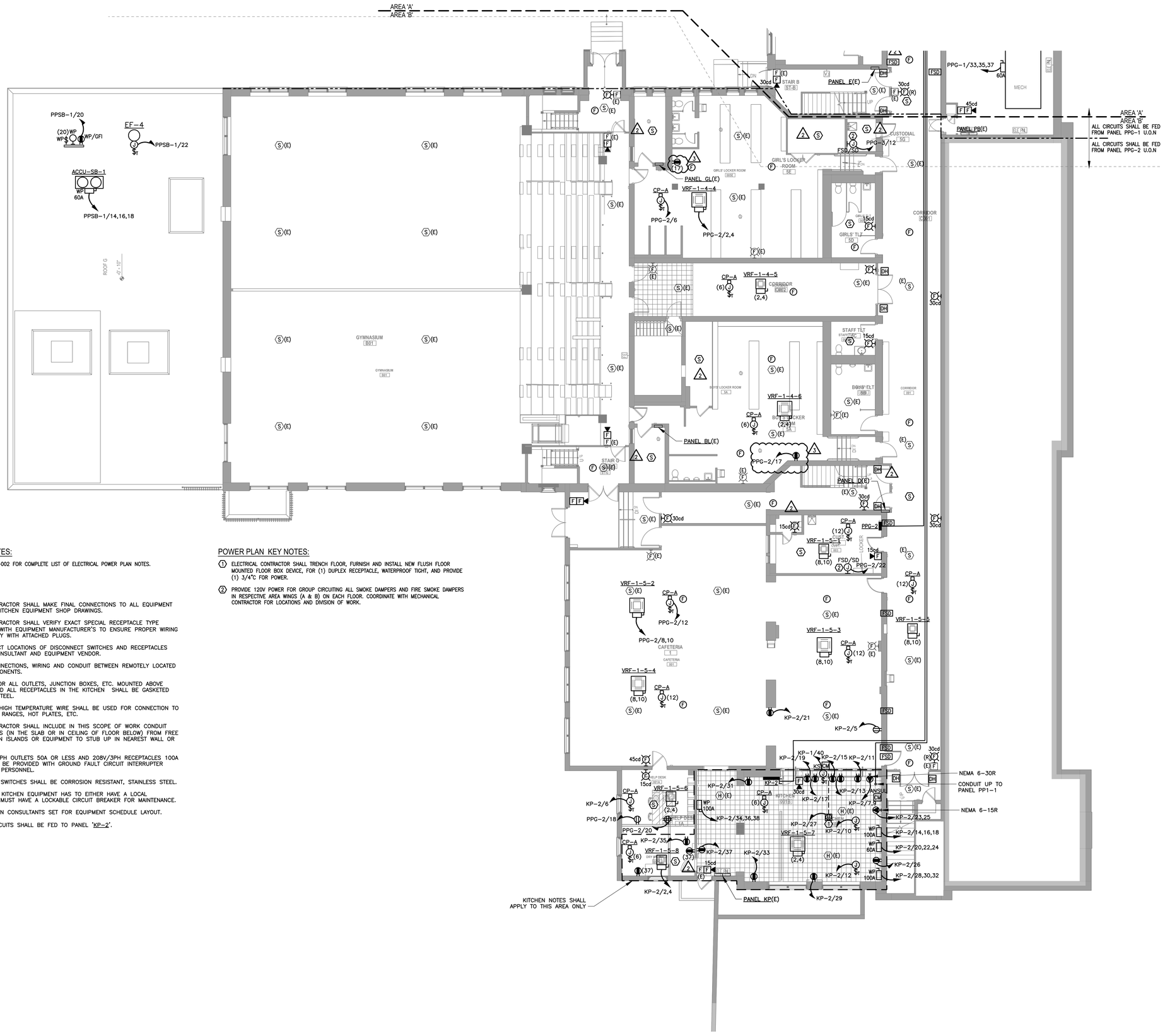
ELECTRICAL SITE PLAN

E099



POWER PLAN NOTES:

1. REFER TO SHEET E-002 FOR COMPLETE LIST OF ELECTRICAL POWER PLAN NOTES.

KITCHEN NOTES:

1. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL EQUIPMENT PER APPROVED KITCHEN EQUIPMENT SHOP DRAWINGS.
2. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT SPECIAL RECEPTACLE TYPE CONFIGURATIONS WITH EQUIPMENT MANUFACTURER'S TO ENSURE PROPER WIRING AND COMPATIBILITY WITH ATTACHED PLUGS.
3. COORDINATE EXACT LOCATIONS OF DISCONNECT SWITCHES AND RECEPTACLES WITH KITCHEN CONSULTANT AND EQUIPMENT VENDOR.
4. PROVIDE ALL CONNECTIONS, WIRING AND CONDUIT BETWEEN REMOTELY LOCATED EQUIPMENT COMPONENTS.
5. COVER PLATES FOR ALL OUTLETS, JUNCTION BOXES, ETC. MOUNTED ABOVE COUNTERTOPS AND ALL RECEPTACLES IN THE KITCHEN SHALL BE GASKETED AND STAINLESS STEEL.
6. APPROVED TYPE HIGH TEMPERATURE WIRE SHALL BE USED FOR CONNECTION TO HOOD LIGHTING, RANGES, HOT PLATES, ETC.
7. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THIS SCOPE OF WORK CONDUIT INTERCONNECTIONS (IN THE SLAB OR IN CEILING OF FLOOR BELOW) FROM FREE STANDING KITCHEN ISLANDS OR EQUIPMENT TO STUB UP IN NEAREST WALL OR COLUMN.
8. ALL 120/208V-1PH OUTLETS 50A OR LESS AND 208V/3PH RECEPTACLES 100A OR LESS SHALL BE PROVIDED WITH GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL.
9. ALL DISCONNECT SWITCHES SHALL BE CORROSION RESISTANT, STAINLESS STEEL.
10. ALL HARD WIRED KITCHEN EQUIPMENT HAS TO EITHER HAVE A LOCAL DISCONNECT, OR MUST HAVE A LOCKABLE CIRCUIT BREAKER FOR MAINTENANCE.
11. REFER TO KITCHEN CONSULTANTS SET FOR EQUIPMENT SCHEDULE LAYOUT.
12. ALL KITCHEN CIRCUITS SHALL BE FED TO PANEL 'KP-2'.

POWER PLAN KEY NOTES:

(1) ELECTRICAL CONTRACTOR SHALL TRENCH FLOOR, FURNISH AND INSTALL NEW FLUSH FLOOR MOUNTED FLOOR BOX DEVICE, FOR (1) DUPLEX RECEPTACLE, WATERPROOF TIGHT, AND PROVIDE (1) 3/4"C FOR POWER.

(2) PROVIDE 120V POWER FOR GROUP CIRCUITING ALL SMOKE DAMPERS AND FIRE SMOKE DAMPERS IN RESPECTIVE AREA WINGS (A & B) ON EACH FLOOR. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATIONS AND DIVISION OF WORK.

ELECTRICAL POWER PART PLAN - GROUND FLOOR - AREA B

1/8" = 1'-0"

PUBLIC SCHOOLS OF THE TARRYTOWNS

2024 CAPITAL BOND PROJECT - PHASE 2

WASHINGTON IRVING INTERMEDIATE SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

HAZARDOUS MATERIALS CONSULTANT
QUALITY ENVIRONMENTAL SOLUTIONS & TECHOLOGIES, INC
1376 ROUTE 9
WAPPINGERS FALLS, NY 12590
845.298.6031

STRUCTURAL CONSULTANT
RYAN BIGGS I CLARK DAVIS ENGINEERING & SURVEYING DPC
257 USHERS ROAD
CLIFTON PARK, NY 12065
518.406.5506

MEP CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905
203.352.1717

SITE - CIVIL CONSULTANT
THE LA GROUP
40 LONG ALLEY
SARATOGA SPRING, NY 12866

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING LLC
992 BEDFORD STREET
BRIDGEWATER, MA. 02324

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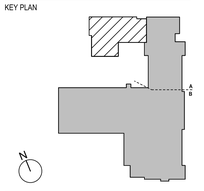

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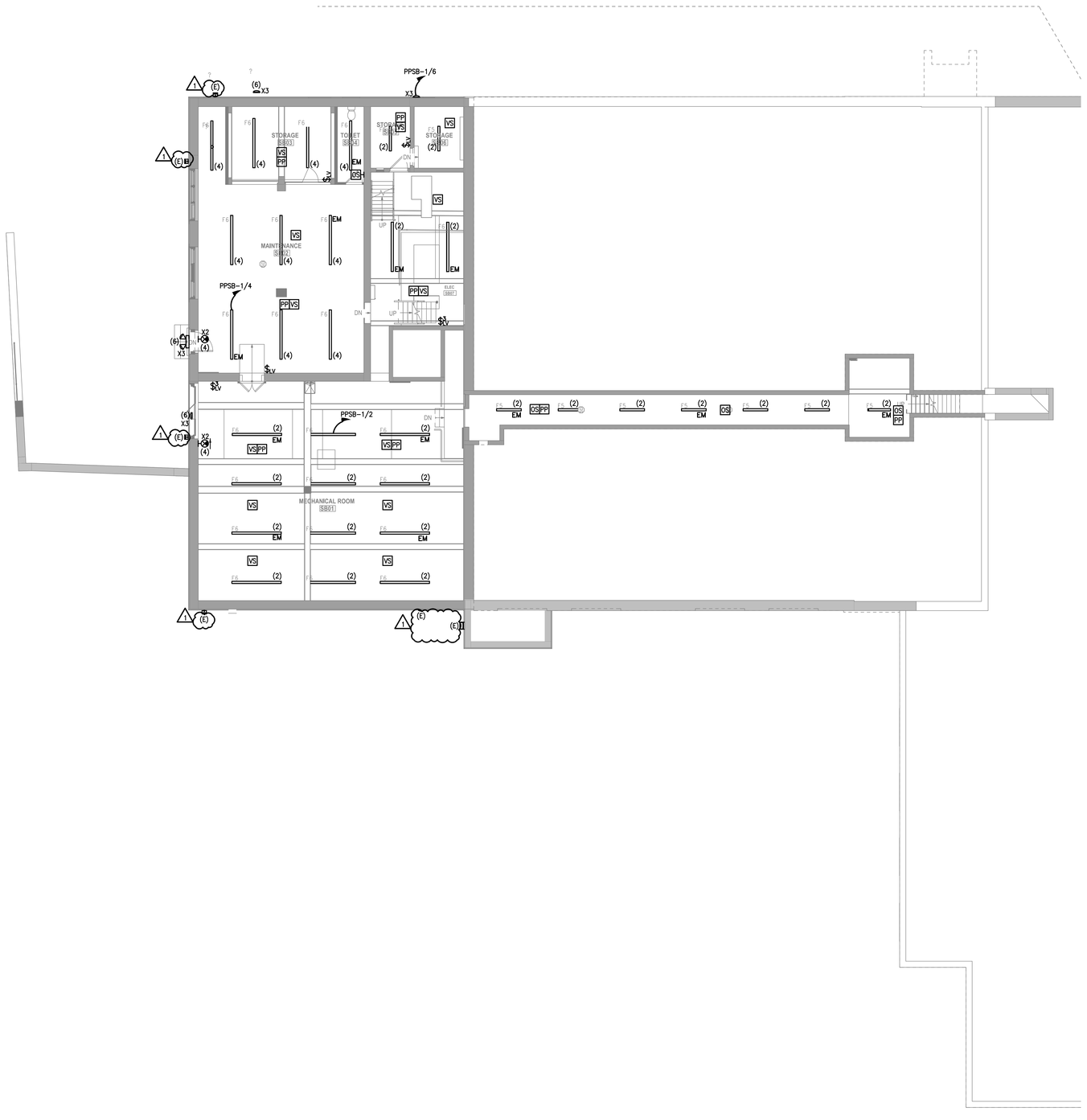
ELECTRICAL POWER PART PLAN - GROUND FLOOR - AREA B

E102-B



LIGHTING PLAN NOTES:

1. REFER TO DRAWING E-001 FOR LIGHTING CONTROLS, PART NUMBERS AND INSTALLATION. COORDINATE WITH nLIGHT FOR FURTHER RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS IN ADDITION TO THESE DRAWINGS.

2. LIGHTINGS FIXTURES DESIGNATED WITH "EM" SHALL BE PROVIDED WITH INTEGRAL BATTERY DRIVERS.

3. ALL SITE & EXTERIOR LIGHTING SHALL BE CONTROLLED VIA DIGITAL TIME CLOCK & PHOTOCELL. PROVIDE RELAY CONTACTOR PANEL AS REQUIRED. COORDINATE EXACT TIME SETTING WITH ARCHITECT & SCHOOL DISTRICT.

LIGHTING SEQUENCE OF OPERATIONS:

1. ALL NEW LIGHTING CONTROLS SHALL BE nLIGHT WIRED CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE PROGRAMMING, COMMISSIONING, AND TRAINING BY nLIGHT. INCLUDE A MINIMUM OF (2) TRAINING DAYS AT (4) HOURS EACH DAY TO INCLUDE BUILDING MANAGEMENT AND END TENANT.

2. OFFICE, UTILITY ROOM, & LARGE STORAGE ROOMS:
   - 2.1. LIGHTS SHALL BE MANUALLY TURNED ON AND OFF AS NEEDED BY THE OCCUPANT.
   - 2.2. WIRED SENSORS SHALL AUTOMATICALLY TURN LIGHTS OFF WHEN THE ROOM IS UNOCCUPIED AFTER 20 MINUTES.

3. SMALL STORAGE ROOMS:
   - 3.1. LIGHTS SHALL BE MANUALLY TURNED ON AND OFF AS NEEDED BY THE OCCUPANT.
   - 3.2. WALL MOUNTED SWITCH WITH INTEGRAL SENSOR SHALL AUTOMATICALLY TURN LIGHTS OFF WHEN THE ROOM IS UNOCCUPIED AFTER 20 MINUTES.

4. OPEN AREAS & CORRIDORS
   - 4.1. LIGHTS SHALL BE CONTROLLED VIA TIME SETTING PROGRAMMED THROUGH THE SENSORVIEW CONFIGURATION AND MONITORING SOFTWARE. DURING ANY "OFF" HOURS PROGRAMMING, THE WIRED SENSORS SHALL TAKE OVER IN "OCCUPANCY" MODE TO AUTOMATICALLY TURN ON THE LIGHTS WHEN THE AREA IS OCCUPIED. LIGHTS SHALL AUTOMATICALLY TURN OFF WHEN THE AREA BECOMES UNOCCUPIED AFTER 20 MINUTES.

ELECTRICAL LIGHTING PLAN - SUB-BASEMENT
1/8" = 1'-0"

PUBLIC SCHOOLS OF THE TARRYTOWNS

2024 CAPITAL BOND PROJECT - PHASE 2

WASHINGTON IRVING INTERMEDIATE SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

HAZARDOUS MATERIALS CONSULTANT
QUALITY ENVIRONMENTAL SOLUTIONS & TECHOLOGIES, INC
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WAPPINGERS FALLS, NY 12590
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257 USHERS ROAD
CLIFTON PARK, NY 12065
518.406.5506

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STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905
203.352.1717

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THE LA GROUP
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SARATOGA SPRING, NY 12866

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING LLC
992 BEDFORD STREET
BRIDGEWATER, MA. 02324

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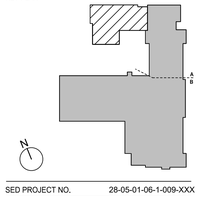

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ELECTRICAL LIGHTING PLAN - SUB-BASEMENT

E200

LIGHTING PLAN NOTES:

1. REFER TO DRAWING E-001 FOR LIGHTING CONTROLS, PART NUMBERS AND INSTALLATION. COORDINATE WITH nLIGHT FOR FURTHER RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS IN ADDITION TO THESE DRAWINGS.

2. LIGHTINGS FIXTURES DESIGNATED WITH "EM" SHALL BE PROVIDED WITH INTEGRAL BATTERY DRIVERS.

3. ALL SITE & EXTERIOR LIGHTING SHALL BE CONTROLLED VIA DIGITAL TIME CLOCK & PHOTOCELL. PROVIDE RELAY CONTACTOR PANEL AS REQUIRED. COORDINATE EXACT TIME SETTING WITH ARCHITECT & SCHOOL DISTRICT.

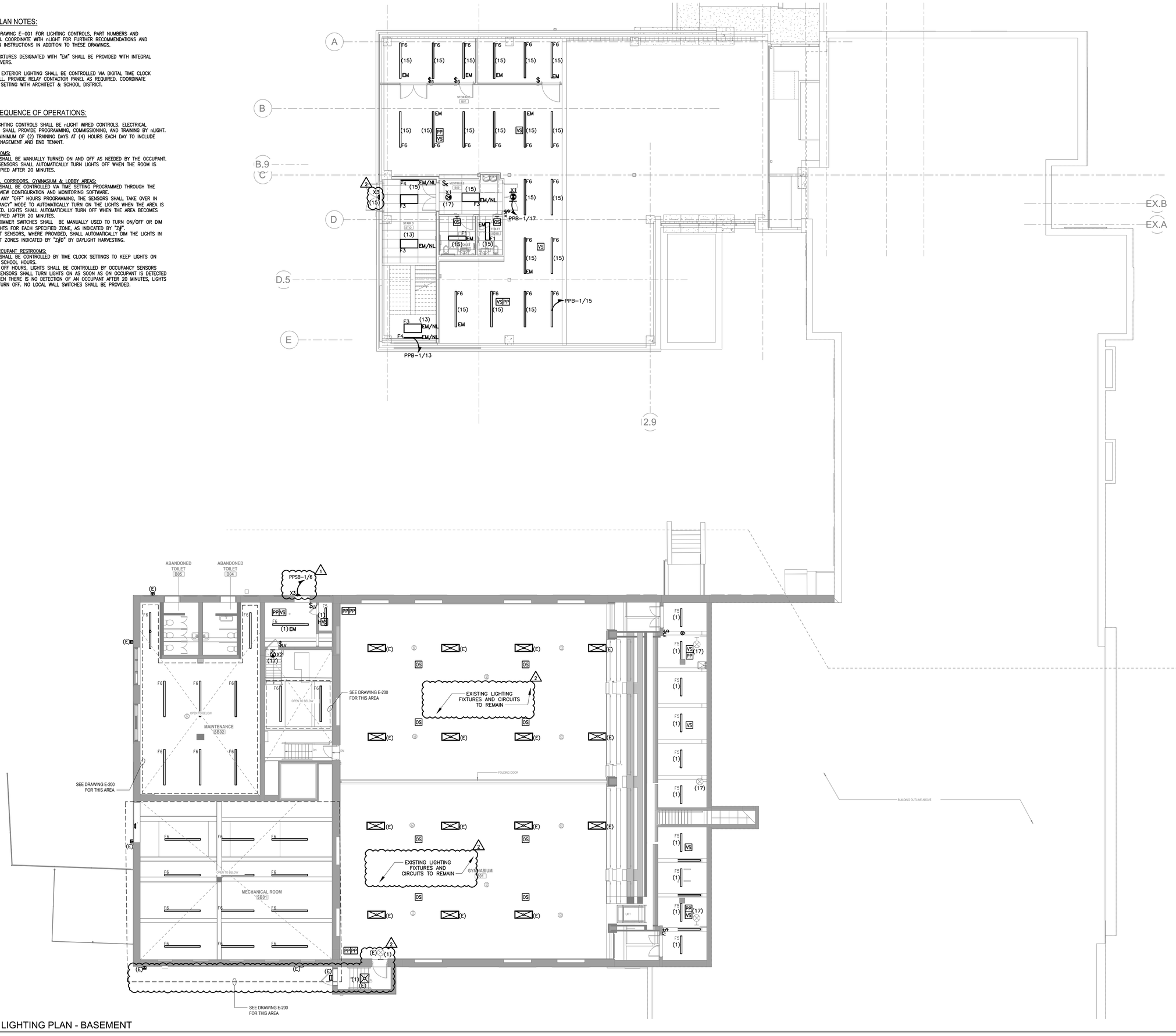
LIGHTING SEQUENCE OF OPERATIONS:

1. ALL NEW LIGHTING CONTROLS SHALL BE nLIGHT WIRED CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE PROGRAMMING, COMMISSIONING, AND TRAINING BY nLIGHT. INCLUDE A MINIMUM OF (2) TRAINING DAYS AT (4) HOURS EACH DAY TO INCLUDE BUILDING MANAGEMENT AND END TENANT.

2. STORAGE ROOMS:
   - 2.1. LIGHTS SHALL BE MANUALLY TURNED ON AND OFF AS NEEDED BY THE OCCUPANT.
   - 2.2. WIRED SENSORS SHALL AUTOMATICALLY TURN LIGHTS OFF WHEN THE ROOM IS UNOCCUPIED AFTER 20 MINUTES.

3. OPEN AREAS, CORRIDORS, GYMNASIUM & LOBBY AREAS:
   - 3.1. LIGHTS SHALL BE CONTROLLED VIA TIME SETTING PROGRAMMED THROUGH THE SENSORVIEW CONFIGURATION AND MONITORING SOFTWARE.
   - 3.2. DURING ANY "OFF" HOURS PROGRAMMING, THE SENSORS SHALL TAKE OVER IN "OCCUPANCY" MODE TO AUTOMATICALLY TURN ON THE LIGHTS WHEN THE AREA IS OCCUPIED. LIGHTS SHALL AUTOMATICALLY TURN OFF WHEN THE AREA BECOMES UNOCCUPIED AFTER 20 MINUTES.
   - 3.3. LOCAL DIMMER SWITCHES SHALL BE MANUALLY USED TO TURN ON/OFF OR DIM THE LIGHTS FOR EACH SPECIFIED ZONE, AS INDICATED BY "Z#".
   - 3.4. DAYLIGHT SENSORS, WHERE PROVIDED, SHALL AUTOMATICALLY DIM THE LIGHTS IN DAYLIGHT ZONES INDICATED BY "Z#D" BY DAYLIGHT HARVESTING.

4. MULTIPLE OCCUPANT RESTROOMS:
   - 4.1. LIGHTS SHALL BE CONTROLLED BY TIME CLOCK SETTINGS TO KEEP LIGHTS ON DURING SCHOOL HOURS.
   - 4.2. DURING OFF HOURS, LIGHTS SHALL BE CONTROLLED BY OCCUPANCY SENSORS ONLY. SENSORS SHALL TURN LIGHTS ON AS SOON AS ON OCCUPANT IS DETECTED AND WHEN THERE IS NO DETECTION OF AN OCCUPANT AFTER 20 MINUTES, LIGHTS SHALL TURN OFF. NO LOCAL WALL SWITCHES SHALL BE PROVIDED.



ELECTRICAL LIGHTING PLAN - BASEMENT

1/8" = 1'-0"

PUBLIC SCHOOLS OF THE TARRYTOWNS

2024 CAPITAL BOND PROJECT - PHASE 2

WASHINGTON IRVING INTERMEDIATE SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

HAZARDOUS MATERIALS CONSULTANT
QUALITY ENVIRONMENTAL SOLUTIONS & TECHOLOGIES, INC
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BUILDING TECHNOLOGY CONSULTING LLC
992 BEDFORD STREET
BRIDGEWATER, MA. 02324

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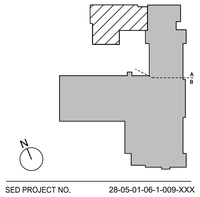

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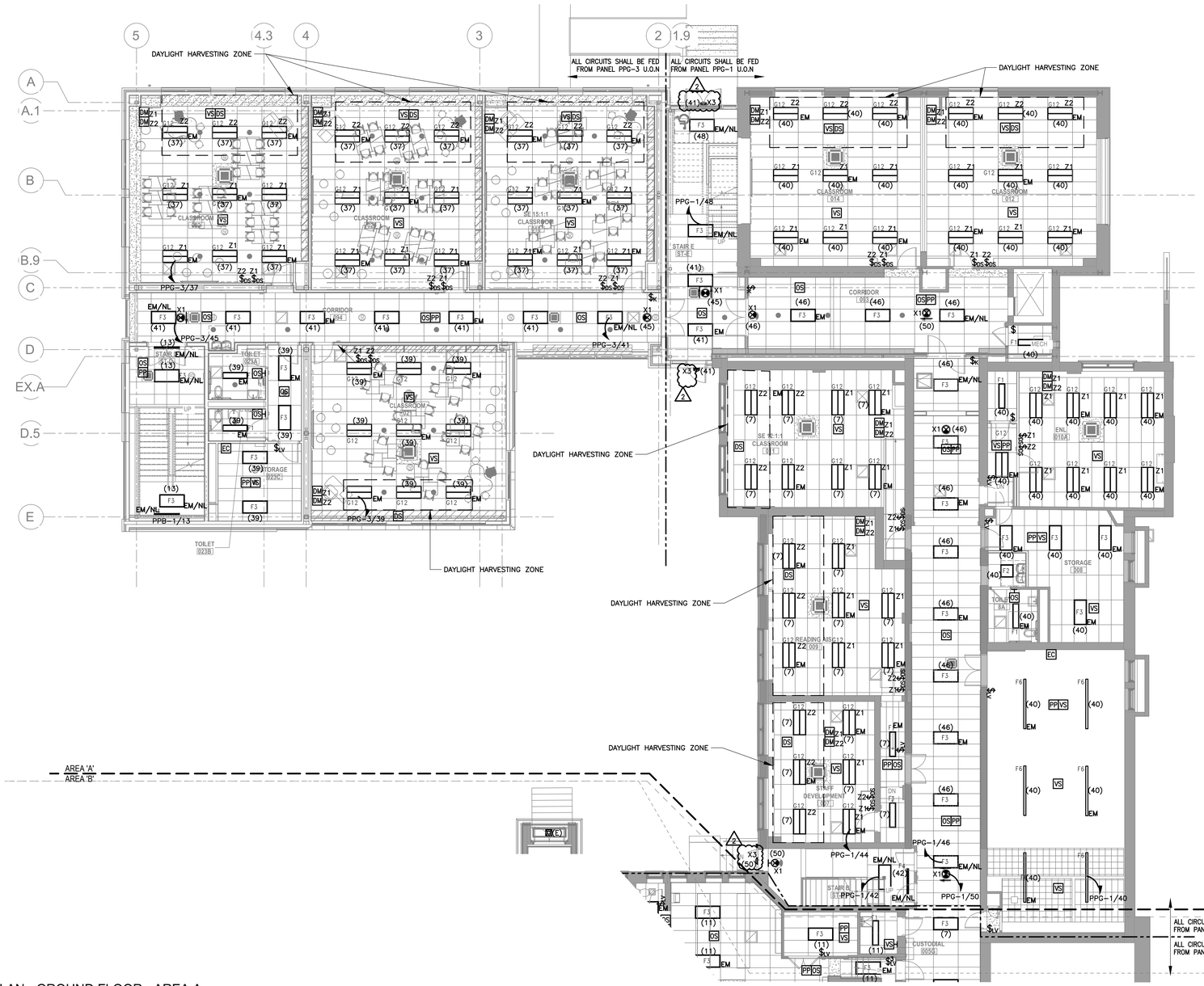
ELECTRICAL LIGHTING PLAN - BASEMENT

E201



ELECTRICAL LIGHTING PART PLAN - GROUND FLOOR - AREA A

1/8" = 1'-0"

LIGHTING PLAN NOTES:

1. REFER TO DRAWING E-001 FOR LIGHTING CONTROLS, PART NUMBERS AND INSTALLATION. COORDINATE WITH LUTRON FOR FURTHER RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS IN ADDITION TO THESE DRAWINGS.
2. LIGHTINGS FIXTURES DESIGNATED WITH "EM" SHALL BE PROVIDED WITH INTEGRAL BATTERY DRIVERS.
3. ALL SITE & EXTERIOR LIGHTING SHALL BE CONTROLLED VIA DIGITAL TIME CLOCK & PHOTOCELL. PROVIDE RELAY CONTACTOR PANEL AS REQUIRED. COORDINATE EXACT TIME SETTING WITH ARCHITECT & SCHOOL DISTRICT.

LIGHTING SEQUENCE OF OPERATIONS:

1. ALL NEW LIGHTING CONTROLS SHALL USE nLIGHT WIRED CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE PROGRAMMING, COMMISSIONING, AND TRAINING BY ACUITY. INCLUDE A MINIMUM OF (2) TRAINING DAYS AT (4) HOURS EACH DAY TO INCLUDE BUILDING MANAGEMENT AND END TENANT.

2. OFFICES, STAFF ROOMS, KITCHEN & STORAGE ROOMS:
   - 2.1. LIGHTS SHALL BE MANUALLY TURNED ON AND OFF AS NEEDED BY THE OCCUPANT.
   - 2.2. WIRED SENSORS SHALL AUTOMATICALLY TURN LIGHTS OFF WHEN THE ROOM IS UNOCCUPIED AFTER 20 MINUTES.

3. CLASSROOMS & IT HELP DESK:
   - 3.1. EACH LIGHTING ZONE SHALL BE MANUALLY TURNED ON AND DIMMED AS NEEDED BY OCCUPANT FOR EACH SPECIFIED ZONE, AS INDICATED BY "Z#".
   - 3.2. WIRED SENSORS SHALL AUTOMATICALLY TURN LIGHTS OFF WHEN THE ROOM IS UNOCCUPIED AFTER 20 MINUTES.
   - 3.3. DAYLIGHT SENSORS, WHERE PROVIDED, SHALL AUTOMATICALLY DIM THE LIGHTS BY DAYLIGHT HARVESTING.

4. OPEN AREAS, CORRIDORS, CAFETTERIA & LOBBY AREAS:
   - 4.1. LIGHTS SHALL BE CONTROLLED VIA TIME SETTING PROGRAMMED THROUGH THE SENSORVIEW CONFIGURATION AND MONITORING SOFTWARE.
   - 4.2. DURING ANY "OFF" HOURS PROGRAMMING, THE WIRED SENSORS SHALL TAKE OVER IN "OCCUPANCY" MODE TO AUTOMATICALLY TURN ON THE LIGHTS WHEN THE AREA IS OCCUPIED. LIGHTS SHALL AUTOMATICALLY TURN OFF WHEN THE AREA BECOMES UNOCCUPIED AFTER 20 MINUTES.

5. MULTIPLE OCCUPANT RESTROOMS:
   - 5.1. LIGHTS SHALL BE CONTROLLED BY TIME CLOCK SETTINGS TO KEEP LIGHTS ON DURING SCHOOL HOURS.
   - 5.2. DURING OFF HOURS, LIGHTS SHALL BE CONTROLLED BY OCCUPANCY SENSORS ONLY. SENSORS SHALL TURN LIGHTS ON AS SOON AS ON OCCUPANT IS DETECTED AND WHEN THERE IS NO DETECTION OF AN OCCUPANT AFTER 20 MINUTES, LIGHTS SHALL TURN OFF. NO LOCAL WALL SWITCHES SHALL BE PROVIDED.

PUBLIC SCHOOLS OF THE TARRYTOWNS

2024 CAPITAL BOND PROJECT - PHASE 2

WASHINGTON IRVING INTERMEDIATE SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

HAZARDOUS MATERIALS CONSULTANT
QUALITY ENVIRONMENTAL SOLUTIONS & TECHOLOGIES, INC
1376 ROUTE 9
WAPPINGERS FALLS, NY 12590
845.298.6031

STRUCTURAL CONSULTANT
RYAN BIGGS I CLARK DAVIS ENGINEERING & SURVEYING DPC
257 USHERS ROAD
CLIFTON PARK, NY 12065
518.406.5506

MEP CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905
203.352.1717

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THE LA GROUP
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SARATOGA SPRING, NY 12866

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992 BEDFORD STREET
BRIDGEWATER, MA. 02324

ISSUE	DATE
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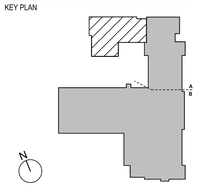
KEY PLAN

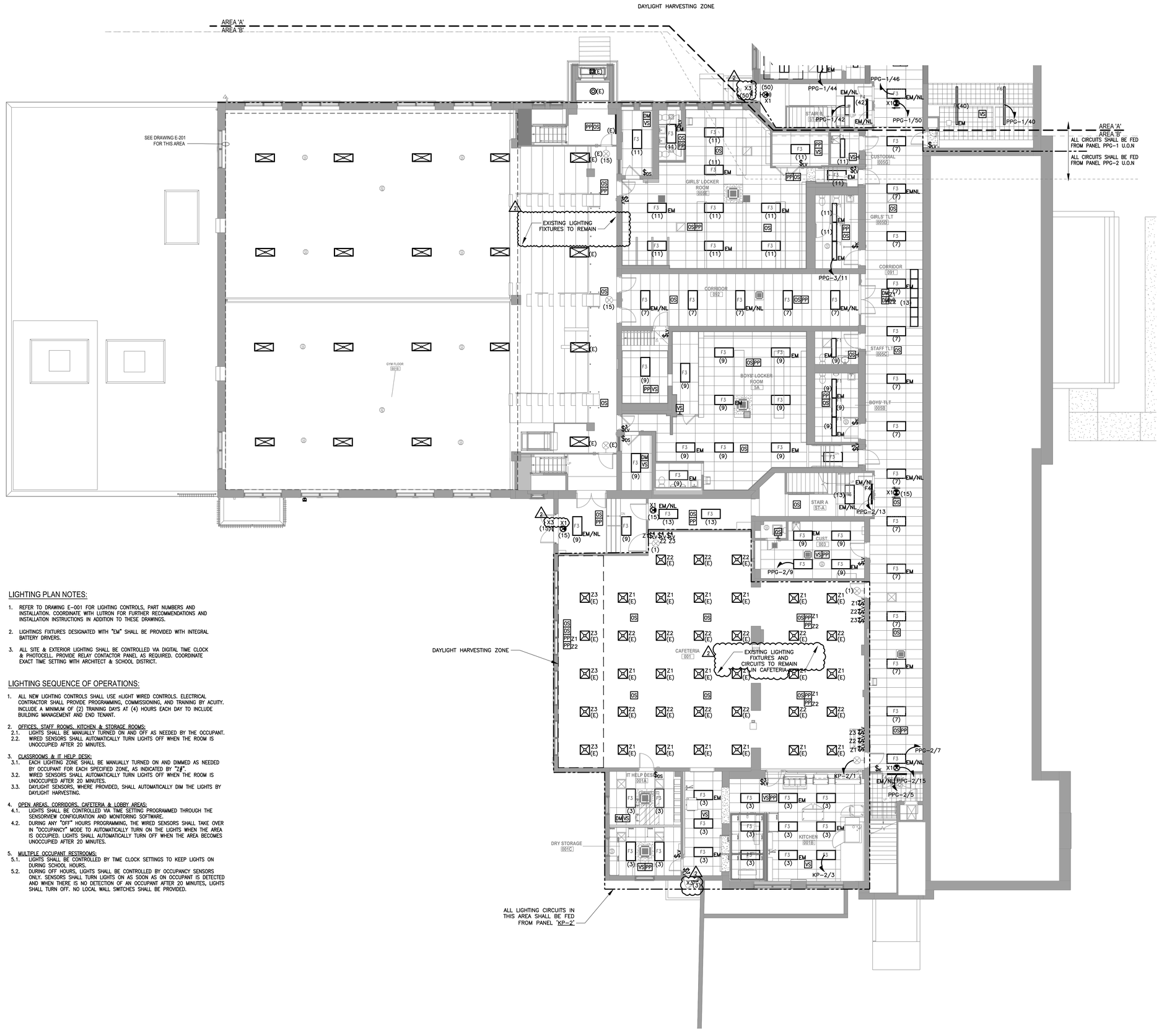


SED PROJECT NO. 28-05-01-06-1-009-XXX

MEMASI PROJECT NO. 101-2403

ELECTRICAL LIGHTING PART PLAN - GROUND FLOOR - AREA A

E202-A



LIGHTING PLAN NOTES:

1. REFER TO DRAWING E-001 FOR LIGHTING CONTROLS, PART NUMBERS AND INSTALLATION. COORDINATE WITH LUTRON FOR FURTHER RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS IN ADDITION TO THESE DRAWINGS.
2. LIGHTINGS FIXTURES DESIGNATED WITH "EM" SHALL BE PROVIDED WITH INTEGRAL BATTERY DRIVERS.
3. ALL SITE & EXTERIOR LIGHTING SHALL BE CONTROLLED VIA DIGITAL TIME CLOCK & PHOTOCELL. PROVIDE RELAY CONTACTOR PANEL AS REQUIRED. COORDINATE EXACT TIME SETTING WITH ARCHITECT & SCHOOL DISTRICT.

LIGHTING SEQUENCE OF OPERATIONS:

1. ALL NEW LIGHTING CONTROLS SHALL USE nLIGHT WIRED CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE PROGRAMMING, COMMISSIONING, AND TRAINING BY ACUITY. INCLUDE A MINIMUM OF (2) TRAINING DAYS AT (4) HOURS EACH DAY TO INCLUDE BUILDING MANAGEMENT AND END TENANT.
2. OFFICES, STAFF ROOMS, KITCHEN & STORAGE ROOMS:
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   - 2.2. WIRED SENSORS SHALL AUTOMATICALLY TURN LIGHTS OFF WHEN THE ROOM IS UNOCCUPIED AFTER 20 MINUTES.
3. CLASSROOMS & IT HELP DESK:
   - 3.1. EACH LIGHTING ZONE SHALL BE MANUALLY TURNED ON AND DIMMED AS NEEDED BY OCCUPANT FOR EACH SPECIFIED ZONE, AS INDICATED BY "Z#".
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4. OPEN AREAS, CORRIDORS, CAFETERIA & LOBBY AREAS:
   - 4.1. LIGHTS SHALL BE CONTROLLED VIA TIME SETTING PROGRAMMED THROUGH THE SENSORVIEW CONFIGURATION AND MONITORING SOFTWARE.
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ELECTRICAL LIGHTING PART PLAN - GROUND FLOOR - AREA B
1/8" = 1'-0"

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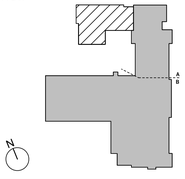
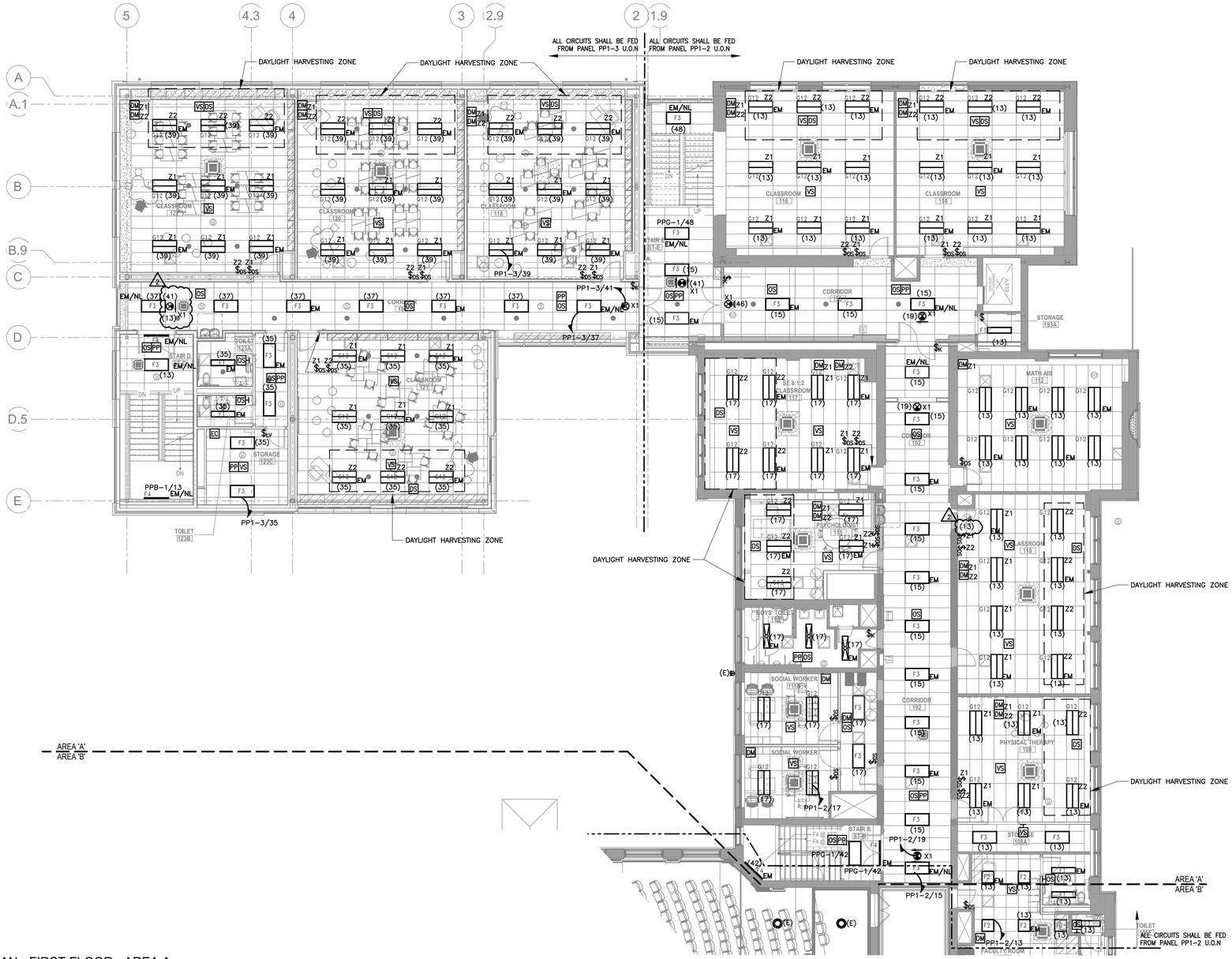


SED PROJECT NO. 28-05-01-06-1-009-XXX

MEMASI PROJECT NO. 101-2403

ELECTRICAL LIGHTING PART PLAN - GROUND FLOOR - AREA B

E202-B



ELECTRICAL LIGHTING PART PLAN - FIRST FLOOR - AREA A

1/8" = 1'-0"

LIGHTING PLAN NOTES:

1. REFER TO DRAWING E-001 FOR LIGHTING CONTROLS, PART NUMBERS AND INSTALLATION. COORDINATE WITH LUTRON FOR FURTHER RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS IN ADDITION TO THESE DRAWINGS.
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ARCHITECT
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2 LYON PLACE
WHITE PLAINS, NY 10601
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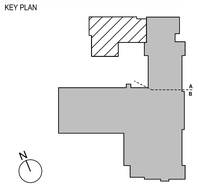
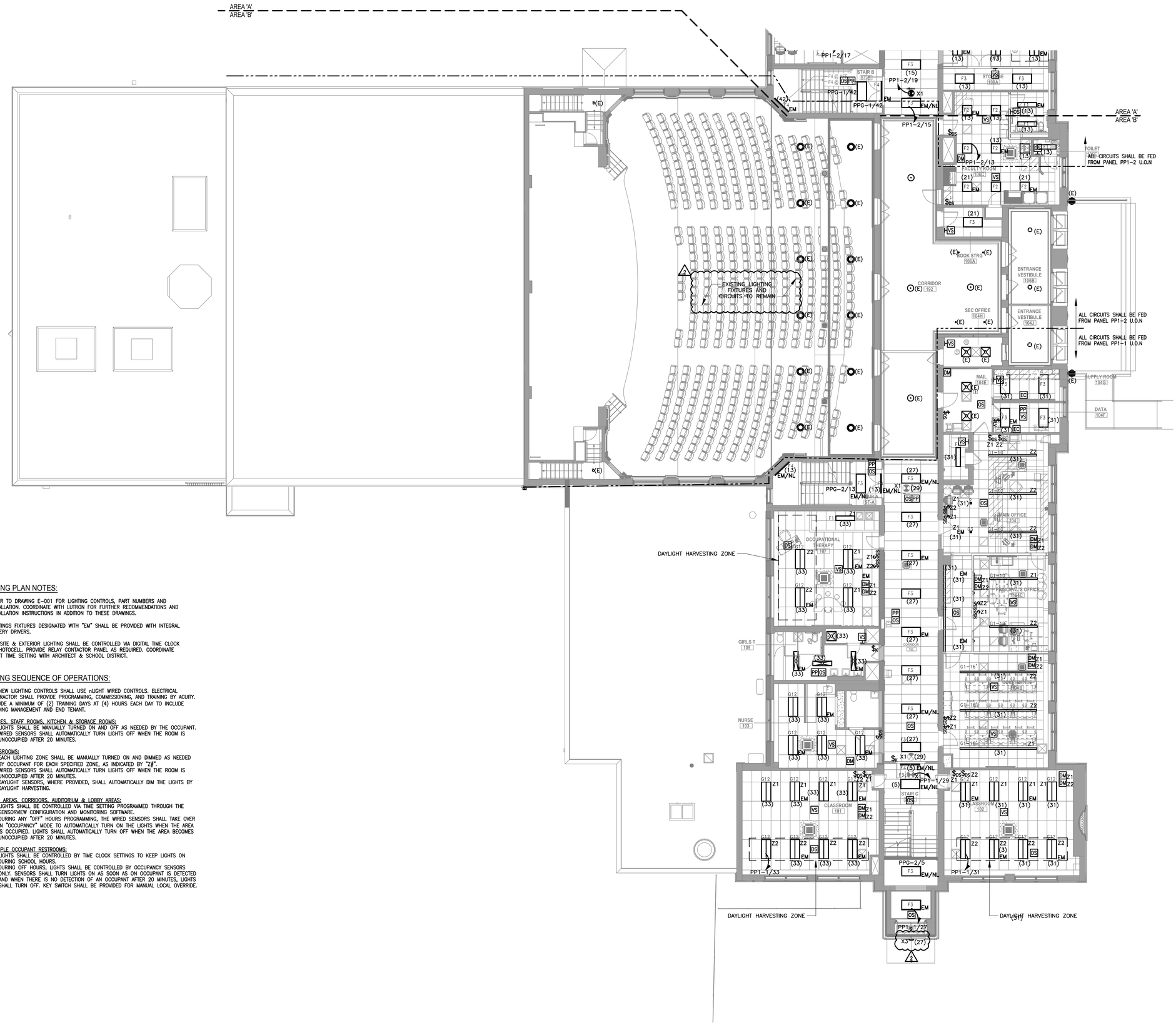


SED PROJECT NO.	28-05-01-06-1-009-XXX
MEMASI PROJECT NO.	101-2403

ELECTRICAL LIGHTING PART PLAN - FIRST FLOOR - AREA A

E203-A



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ELECTRICAL LIGHTING PART PLAN - FIRST FLOOR - AREA B

1/8" = 1'-0"

PUBLIC SCHOOLS OF THE TARRYTOWNS

2024 CAPITAL BOND PROJECT - PHASE 2

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ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
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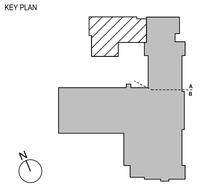

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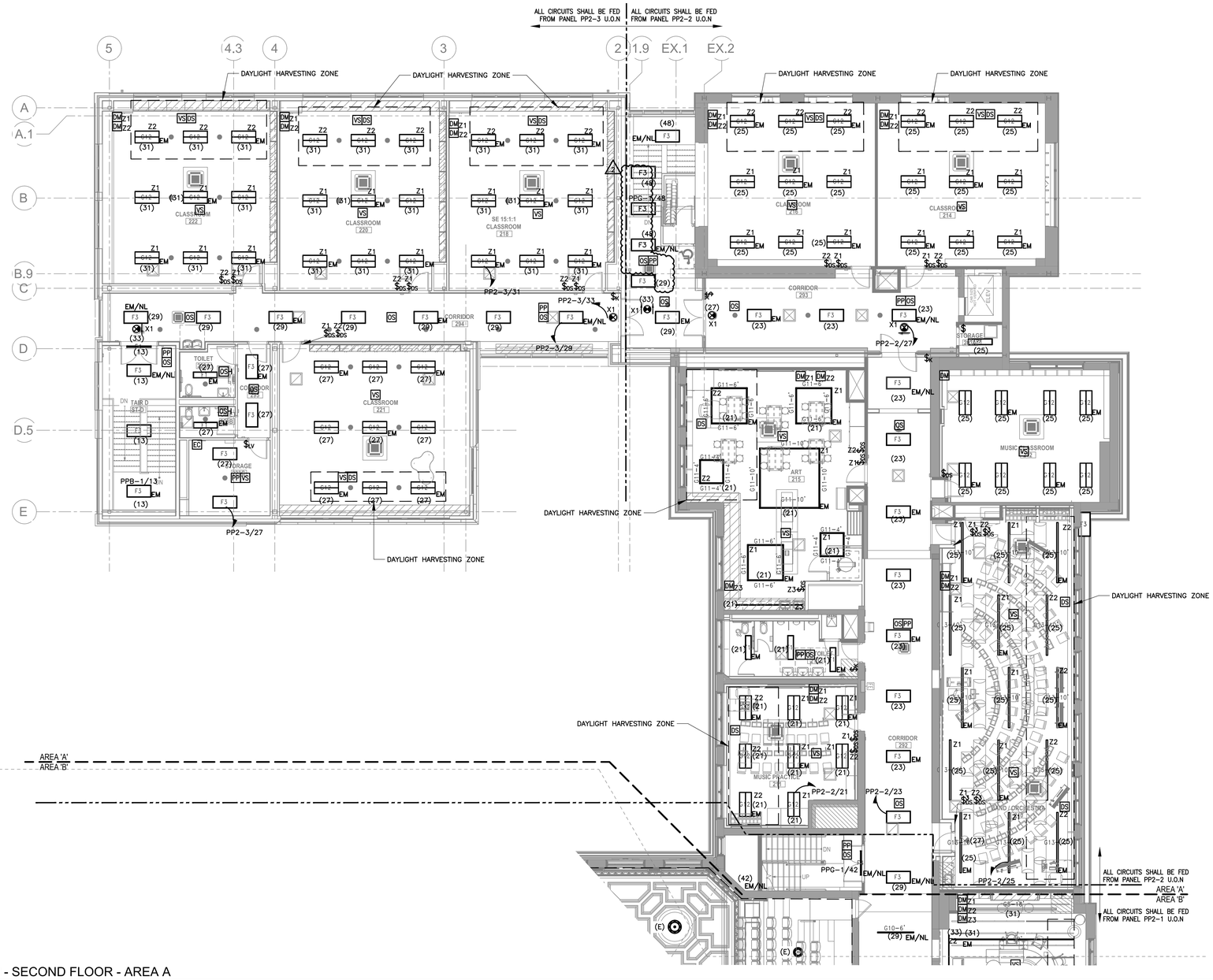
MEMASI PROJECT NO.	101-2403

ELECTRICAL LIGHTING PART PLAN - FIRST FLOOR - AREA B

E203-B



ELECTRICAL LIGHTING PART PLAN - SECOND FLOOR - AREA A

1/8" = 1'-0"

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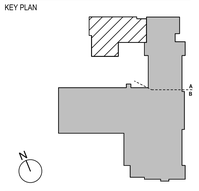

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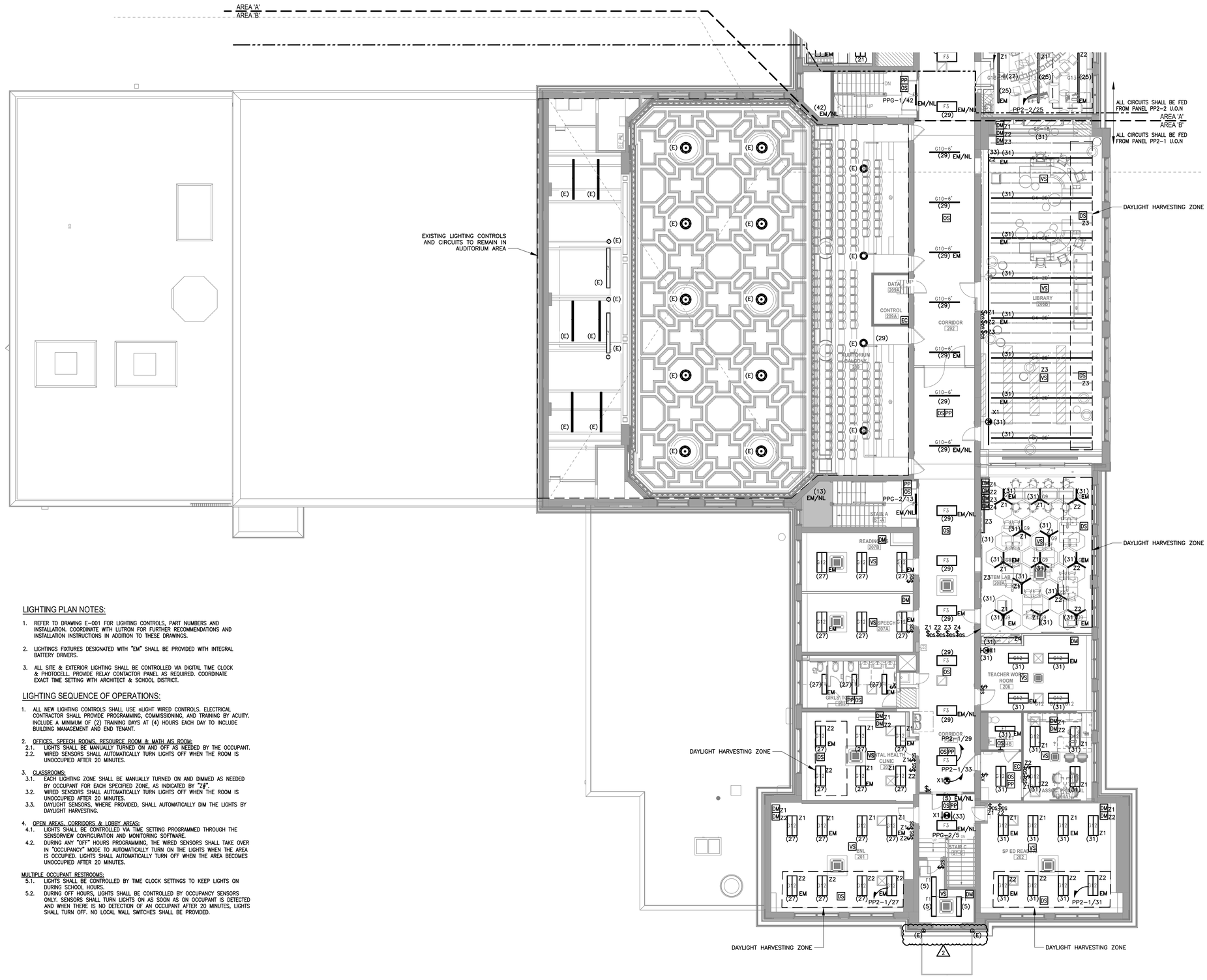
ELECTRICAL LIGHTING PART PLAN - SECOND FLOOR - AREA A

E204-A



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PUBLIC SCHOOLS OF THE TARRYTOWNS

2024 CAPITAL BOND PROJECT - PHASE 2

WASHINGTON IRVING INTERMEDIATE SCHOOL

ARCHITECT
MEMASI
2 LYON PLACE
WHITE PLAINS, NY 10601
914.915.9519
MEMASIDESIGN.COM

HAZARDOUS MATERIALS CONSULTANT
QUALITY ENVIRONMENTAL SOLUTIONS & TECHOLOGIES, INC
1376 ROUTE 9
WAPPINGERS FALLS, NY 12590
845.298.6031

STRUCTURAL CONSULTANT
RYAN BIGGS I CLARK DAVIS ENGINEERING & SURVEYING DPC
257 USHERS ROAD
CLIFTON PARK, NY 12065
518.406.5506

MEP CONSULTANT
STANTEC
30 OAK STREET, SUITE 400
STAMFORD, CT 06905
203.352.1717

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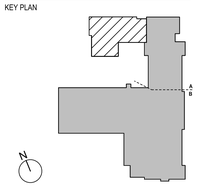
BUILDING TECHNOLOGY CONSULTING LLC
992 BEDFORD STREET
BRIDGEWATER, MA. 02324

ISSUE	DATE
⚠ ADDENDUM #6	04/24/2026
SED ENG ADDENDUM 1	02/12/2026
ISSUED FOR BID	03/27/2026

KEY PLAN

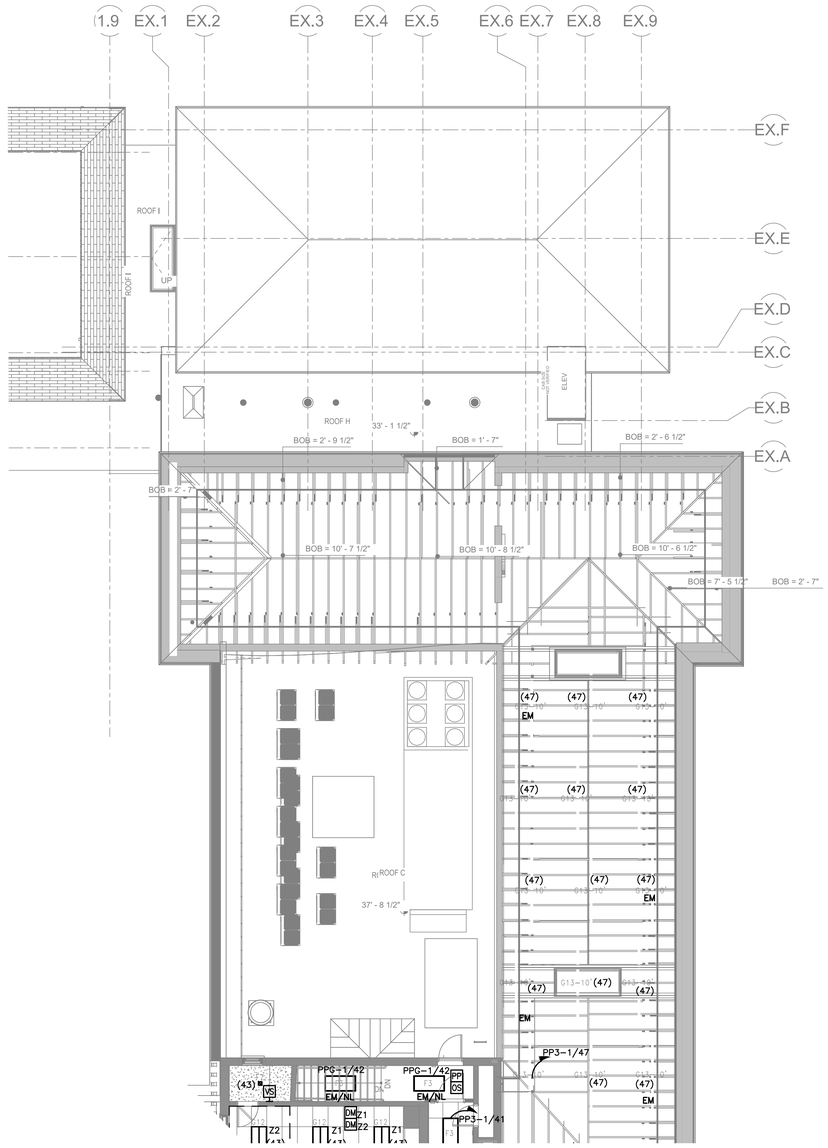


SED PROJECT NO. 28-05-01-06-1-009-XXX

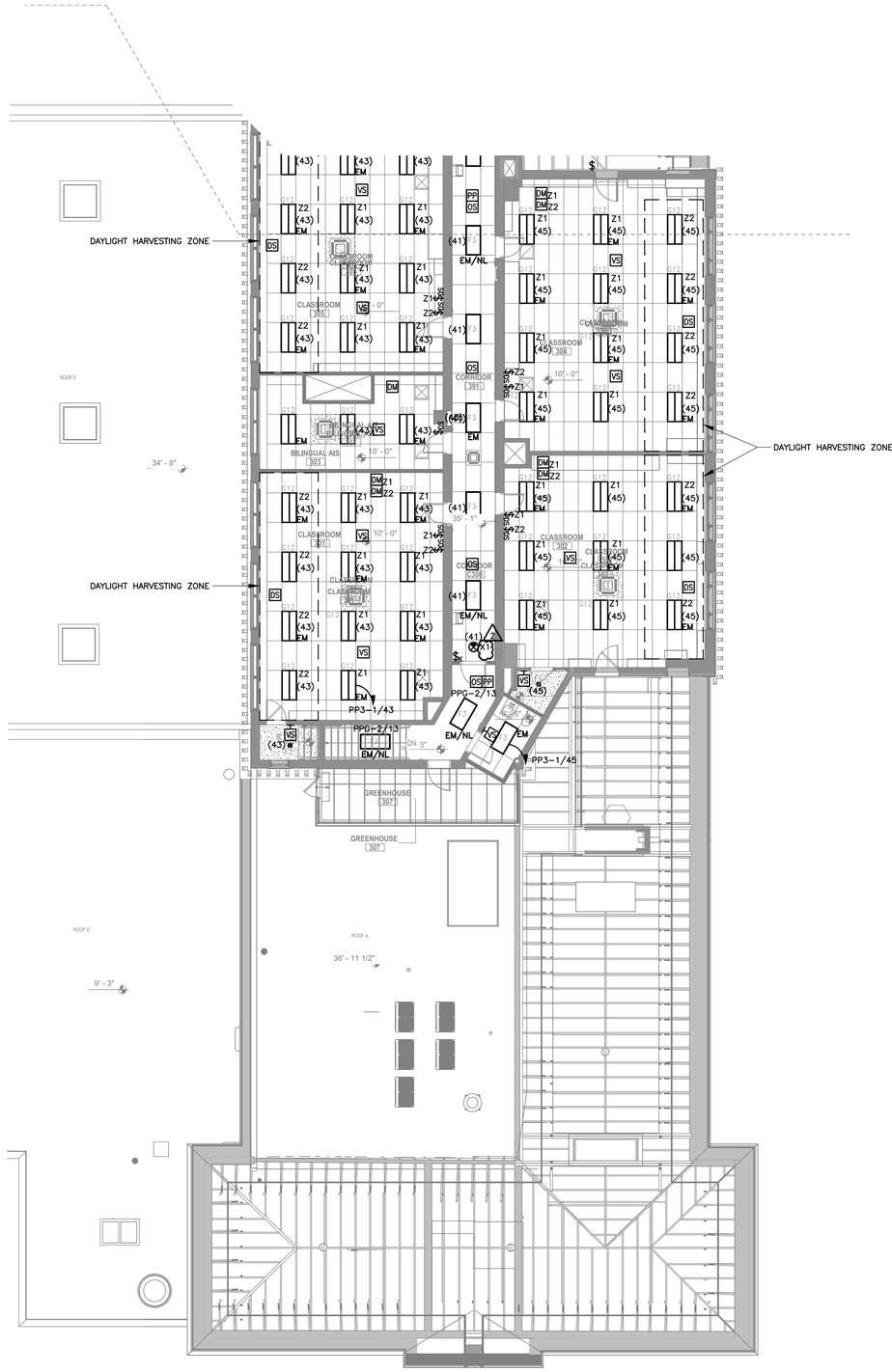
MEMASI PROJECT NO. 101-2403

ELECTRICAL LIGHTING PART PLAN - SECOND FLOOR - AREA B

E204-B



AREA A



AREA B

LIGHTING PLAN NOTES:

1. REFER TO DRAWING E-001 FOR LIGHTING CONTROLS, PART NUMBERS AND INSTALLATION. COORDINATE WITH LUTRON FOR FURTHER RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS IN ADDITION TO THESE DRAWINGS.
2. LIGHTINGS FIXTURES DESIGNATED WITH "EM" SHALL BE PROVIDED WITH INTEGRAL BATTERY DRIVERS.
3. ALL SITE & EXTERIOR LIGHTING SHALL BE CONTROLLED VIA DIGITAL TIME CLOCK & PHOTOCELL. PROVIDE RELAY CONTACTOR PANEL AS REQUIRED. COORDINATE EXACT TIME SETTING WITH ARCHITECT & SCHOOL DISTRICT.

LIGHTING SEQUENCE OF OPERATIONS:

1. ALL NEW LIGHTING CONTROLS SHALL USE nLIGHT WIRED CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE PROGRAMMING, COMMISSIONING, AND TRAINING BY ACUITY. INCLUDE A MINIMUM OF (2) TRAINING DAYS AT (4) HOURS EACH DAY TO INCLUDE BUILDING MANAGEMENT AND END TENANT.
2. OFFICES, SPEECH ROOMS, RESOURCE ROOM & MATH AIS ROOM:
   - 2.1. LIGHTS SHALL BE MANUALLY TURNED ON AND OFF AS NEEDED BY THE OCCUPANT.
   - 2.2. WIRED SENSORS SHALL AUTOMATICALLY TURN LIGHTS OFF WHEN THE ROOM IS UNOCCUPIED AFTER 20 MINUTES.
3. CLASSROOMS:
   - 3.1. EACH LIGHTING ZONE SHALL BE MANUALLY TURNED ON AND DIMMED AS NEEDED BY OCCUPANT FOR EACH SPECIFIED ZONE, AS INDICATED BY "Z#".
   - 3.2. WIRED SENSORS SHALL AUTOMATICALLY TURN LIGHTS OFF WHEN THE ROOM IS UNOCCUPIED AFTER 20 MINUTES.
   - 3.3. DAYLIGHT SENSORS, WHERE PROVIDED, SHALL AUTOMATICALLY DIM THE LIGHTS BY DAYLIGHT HARVESTING.
4. OPEN AREAS, CORRIDORS & LOBBY AREAS:
   - 4.1. LIGHTS SHALL BE CONTROLLED VIA TIME SETTING PROGRAMMED THROUGH THE SENSORVIEW CONFIGURATION AND MONITORING SOFTWARE.
   - 4.2. DURING ANY "OFF" HOURS PROGRAMMING, THE WIRED SENSORS SHALL TAKE OVER IN "OCCUPANCY" MODE TO AUTOMATICALLY TURN ON THE LIGHTS WHEN THE AREA IS OCCUPIED. LIGHTS SHALL AUTOMATICALLY TURN OFF WHEN THE AREA BECOMES UNOCCUPIED AFTER 20 MINUTES.

ELECTRICAL LIGHTING PLAN - THIRD FLOOR
1/8" = 1'-0"

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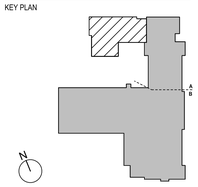

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ELECTRICAL LIGHTING PLAN - THIRD FLOOR

E205

PANEL DESIGNATION : **KP-2**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	84
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	400 A
WIRE	4 W + G			MAIN BUS	400 A
SURFACE MOUNTED	X	STAINLESS STEEL	X	GROUND BUS	X
FEED THROUGH LUGS					

REMARKS :

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	EXIT SIGNS	400			KITCHEN VRF	15A	2
3	20A	KITCHEN LIGHTS		800				4
5	20A	MILK COOLER (100) *G			3542	CP-A	20A	6
7	30A	HOT FOOD STATION (101)	3208			KX-1	20A	8
9				4608		EXHUAST HOOD (113)	20A	10
11	20A	BREATH GUARD (102)			1900	FIRE SUPRESSION SYSTEM (114)	20A	12
13	20A	HOT/COLD FOOD STATION (103)	9867			DOUBLE COMBINATION OVEN (115) 3#4 + 1#8GRD IN 1-1/4"C	80A	14
15	20A	BREATH GUARD (104)		7567				16
17	20A	COLD FORD STATION (105)			8055			18
19	20A	BREATH GUARD (106)	4100			ELECTRIC GRIDDLE COUNTER TOP (116) 3#8 + 1#10GRD IN 3/4"C	45A	20
21	20A	CASHIER STATION (107)		5200				22
23	15A	REACH IN HEATED CABINET (112)			4750			24
25			1050			CHEF BASE (117)	20A	26
27	20A	REACH IN FRIDGE (123) *G		6467		HD RANGE (118) 3#4 + 1#8GRD IN 1-1/4"C	70A	28
29	20A	HAND SINK REC (124)			5867			30
31	20A	MICROWAVE (128)	7377					32
33	20A	WALK IN COLER (131) *G		7817		DISHWASHER (145) 3#4 + 1#8GRD IN 1-1/4"C	70A	34
35	20A	ICE MAKER BIN (142)			7317			36
37	20A	HAND SINK REC & STORAGE REC (143)	6777					38
39	20A	**SPARE**		100		FIRE SHUTTER DOOR	20A	40
41	20A	**SPARE**			0	**SPARE**	20A	42
43	20A	**SPARE**	0			**SPARE**	20A	44
45	20A	**SPARE**		0		**SPARE**	20A	46
47	20A	**SPARE**			0	**SPARE**	20A	48
49	20A	**SPARE**	0			**SPARE**	20A	50
51	20A	**SPARE**		0		**SPARE**	20A	52
53	20A	**SPARE**			0	**SPARE**	20A	54
55	20A	**SPARE**	0			**SPARE**	20A	56
57	20A	**SPARE**		0		**SPARE**	20A	58
59	20A	**SPARE**			0	**SPARE**	20A	60
61	20A	**SPARE**	0			**SPARE**	20A	62
63	20A	**SPARE**		0		**SPARE**	20A	64
65	20A	**SPARE**			0	**SPARE**	20A	66
67	20A	**SPARE**	0			**SPARE**	20A	68
69				0				70
71					0			72
73			0					74
75				0				76
77					0			78
79			0					80
81				0				82
83					0			84

TOTAL CONNECTED LOAD PER PHASE (kVA)	32.78	32.56	31.43
TOTAL CONNECTED LOAD	96.77 KVA		268.6 A
TOTAL DEMAND LOAD	91.66 KVA		254.4 A

NOTES:
*G: DENOTES GFCI CIRCUIT BREAKER

PANEL DESIGNATION : **PPSB-1**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	400 A
WIRE	4 W + G			MAIN BUS	400 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS		NEMA 3R ENCLOSURE			

REMARKS :

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	BOILER ROOM REC	18180			DWH-1A 3#3/0 + 1#6GRD IN 2"C	200A	2
3	20A	HWCP-1		18200				4
5	20A	CP-A			18500			6
7	15A	SUB-BASEMENT VRF	18200			DWH-1B 3#3/0 + 1#6GRD IN 2"C	200A	8
9				18200				10
11	20A	OAF-1			18200			12
13	20A	**SPARE**	3502			ACCU-SB-1 ROOF 3#8 + 1#10GRD IN 1"C	40A	14
15	20A	**SPARE**		3502				16
17	20A	**SPARE**			3502			18
19	20A	**SPARE**	180			ROOF REC	20A	20
21	20A	**SPARE**		200		EF-4	20A	22
23	20A	**SPARE**			0	**SPARE**	20A	24
25	20A	**SPARE**	0			**SPARE**	20A	26
27	20A	**SPARE**		0		**SPARE**	20A	28
29	20A	**SPARE**			0	**SPARE**	20A	30
31			0					32
33				0				34
35					0			36
37			0					38
39				0				40
41					0			42

TOTAL CONNECTED LOAD PER PHASE (kVA)	40.06	40.10	40.20
TOTAL CONNECTED LOAD	120.37 KVA		334.1 A
TOTAL DEMAND LOAD	120.37 KVA		334.1 A

PANEL DESIGNATION : **PPG-1**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	84
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	800 A
WIRE	4 W + G			MAIN BUS	800 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS		NEMA 3R ENCLOSURE			

REMARKS :

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	400A	KP-2	35239			PPG-2	100A	2
3				34679				4
5					33331			6
7	100A	PP2-1	11880			PP1-2	100A	8
9				7520				10
11					6420			12
13	100A	PP1-1	14420			PP2-2	100A	14
15				12820				16
17					8220			18
19	20A	FACP	1100			STAIR E & CLASSROOM CP-A	20A	20
21	15A	STAIR E E & CLASSROOM VRF		700		CLASSROOM & CORRIDOR CP-A	20A	22
23					700	CLASSROOM CP-A	20A	24
25	15A	CLASSROOM & CORRIDOR VRF	480			AUDITORIUM ROOF REC	20A	26
27				6040		ACCU-AHU-2 3#6 + 1#10GRD IN 3/4"C	60A	28
29	15A	CLASSROOM VRF			6040			30
31			6040					32
33	50A	VRF AHU-1-1 3#8 +1#10GRD IN 3/4"C		9770		ACCU-AHU-3 3#6 + 1#10GRD IN 3/4"C	60A	34
35					9770			36
37			9770					38
39	35A	VRF AHU-2 3#8 +1#10GRD IN 3/4"C		2880		AREA A CLASSROOM LIGHTING	20A	40
41					2440	STAIR B	20A	42
43			2820			AREA A CLASSROOM LIGHTING	20A	44
45	35A	VRF AHU-3 3#8 +1#10GRD IN 3/4"C		2600		CORRIDOR C001	20A	46
47					2540	STAIR E	20A	48
49			2420			EXIT SIGNS	20A	50
51	20A	FACP		1000		**SPARE**	20A	52
53	20A	CLASSROOM 14 REC			900	**SPARE**	20A	54
55	20A	**SPARE**	0			**SPARE**	20A	56
57	20A	**SPARE**		0		**SPARE**	20A	58
59	20A	**SPARE**			0	**SPARE**	20A	60
61			0					62
63				0				64
65					0			66
67			0					68
69				0				70
71					0			72
73			0					74
75				0				76
77					0			78
79			0					80
81				0				82
83					0			84

TOTAL CONNECTED LOAD PER PHASE (kVA)	84.17	78.01	70.36
TOTAL CONNECTED LOAD	232.54 KVA		645.5 A
TOTAL DEMAND LOAD	232.54 KVA		645.5 A

PANEL DESIGNATION : **PPG-2**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	100 A
WIRE	4 W + G			MAIN BUS	100 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS		NEMA 3R ENCLOSURE			

REMARKS :

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	GYMNASIUM LIGHTING	820			LOCKER RMS VRF	15A	2
3	20A	**SPARE**		300				4
5	20A	STAIR C LIGHTING			580	CP-A	20A	6
7	20A	CORRIDOR C001 LIGHTING	680			CAFETERIA VRF	15A	8
9	20A	BOY'S LOCKER LIGHTING		780				10
11	20A	GIRL'S LOCKER LIGHTING			600	CP-A	20A	12
13	20A	STAIR A LIGHTING	600			EF-1	20A	14
15	20A	EXIT SIGNS		540		ROOF REC	20A	16
17	20A	LOCKER ROOM RECEPTACLES			720	IT HELP DESK REC	20A	18
19	20A	**SPARE**	360			IT HELP DESK REC	20A	20
21	20A	SPARE		900		FIRE SMOKE DAMPERS	20A	22
23	20A	**SPARE**			0	**SPARE**	20A	24
25	20A	**SPARE**	0			**SPARE**	20A	26
27	20A	**SPARE**		0		**SPARE**	20A	28
29	20A	**SPARE**			0	**SPARE**	20A	30
31	20A	**SPARE**	0			**SPARE**	20A	32
33	20A	**SPARE**		0		**SPARE**	20A	34
35	20A	**SPARE**			0	**SPARE**	20A	36
37	20A	**SPARE**	0			**SPARE**	20A	38
39	20A	**SPARE**		0		**SPARE**	20A	40
41	20A	**SPARE**			0	**SPARE**	20A	42

TOTAL CONNECTED LOAD PER PHASE (kVA)	2.46	2.12	1.90
TOTAL CONNECTED LOAD	6.48 KVA		18.0 A
TOTAL DEMAND LOAD	6.48 KVA		18.0 A

PANEL DESIGNATION : **PP1-1**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	84
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	225 A
WIRE	4 W + G			MAIN BUS	225 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS		NEMA 3R ENCLOSURE			

REMARKS :

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	DEDICATED STORAGE REC	1500			ENTRANCE VESTIBULE & MAIL RM VRF	15A	2
3	20A	DEDICATED STORAGE REC		1500				4
5	20A	MAIN OFFICE COPIER			1500	MAIN OFFICE AND CONFERENCE RM VRF	15A	6
7	20A	MAIN OFFICE WORKSTATION REC	840					8
9	20A	MAIN OFFICE WORKSTATION REC		840		NURSE, STAIR, CLASSRM101 & 102 VRF	15A	10
11	20A	DEDICATED MAIN OFFICE REC			1300			12
13	20A	DEDICATED MAIN OFFICE REXC	1400			CP-A	20A	14
15	20A	MAIN OFFICE CONVIENENCE REC		860		FIRE SMOKE DAMPERS	20A	16
17	20A	PRINCIPAL OFFICE REC			720	**SPARE**	20A	18
19	20A	PRINCIPAL OFFICE TV REC	720			**SPARE**	20A	20
21	20A	PRINCIPAL OFFICE DESK REC		720		**SPARE**	20A	22
23	20A	CONFERENCE RM REC			720	**SPARE**	20A	24
25	20A	CONFERENCE RM TV REC	720			**SPARE**	20A	26
27	20A	CORRIDOR C101 LIGHTING		180		**SPARE**	20A	28
29	20A	EXIT SIGNS			40	**SPARE**	20A	30
31	20A	CLASSROOM LIGHTING	560			**SPARE**	20A	32
33	20A	CLASSROOM LIGHTING		420		**SPARE**	20A	34
35	20A	CONFERENCE RM WIREMOLD			1080	**SPARE**	20A	36
37	20A	**SPARE**	0			**SPARE**	20A	38
39	20A	**SPARE**		0		**SPARE**	20A	40
41	20A	**SPARE**			0	**SPARE**	20A	42

TOTAL CONNECTED LOAD PER PHASE (kVA)	5.74	4.52	5.36
TOTAL CONNECTED LOAD	15.62 KVA		43.4 A
TOTAL DEMAND LOAD	14.76 KVA		41.0 A

PANEL DESIGNATION : **PP1-2**

VOLTAGE	208Y/120 V	NEUTRAL	100%	QUANTITY OF POLES	42
PHASE	3 Ø	SCC RATING (SYM)	42 K.A.I.C.	MAIN CIRCUIT BREAKER	100 A
WIRE	4 W + G			MAIN BUS	100 A
SURFACE MOUNTED	X	NEMA 1 ENCLOSURE	X	GROUND BUS	X
FEED THROUGH LUGS		NEMA 3R ENCLOSURE			

REMARKS :

CKT #	TRIP	LOAD DESCRIPTION	ØA (VA)	ØB (VA)	ØC (VA)	LOAD DESCRIPTION	TRIP	CKT #
1	20A	PSYCHOLOGIST 115 SMARTBOARD	1020			CLASSRM 116, 114, CORRIDOR & STAIR E VRF	15A	2
3	20A	PSYCHOLOGIST 115 REC		1020				4
5	20A	SOCIAL WORKER 111B SMARTBOARD			660	MATH 112, CLASSRM 110, & PHY 108 VRF	15A	6
7	20A	SOCIAL WORKER 111B REC	480					8
9	20A	SOCIAL WORKER 111A SMARTBOARD		660		CLASSRM 117 & OFFICE VRF	15A	10
11	20A	SOCIAL WORKER 111A REC			480			12
13	20A	CLASSROOM LIGHTING	1500			EXTERIOR LIGHTING	20A	14
15	20A	CORRIDOR C101-102 LIGHTING		540		DESK REC	20A	16
17	20A	SOCIAL WORKER LIGHTING			840	CP-A	20A	18
19	20A	EXIT SIGNS	960			CLASSROOM 116 REC	20A	20
21	20A	CORRIDOR 192 LIGHTING		0		**SPARE**	20A	22
23	20A	**SPARE**			0	**SPARE**	20A	24
25	20A	**SPARE**	0			**SPARE**	20A	26
27	20A	**SPARE**		0		**SPARE**	20A	28
29	20A	**SPARE**			0	**SPARE**	20A	30
31	20A	**SPARE**	0			**SPARE**	20A	32
33	20A	**SPARE**		0		**SPARE**	20A	34
35	20A	**SPARE**			0	**SPARE**	20A	36
37	20A	**SPARE**	0			**SPARE**	20A	38
39	20A	**SPARE**		0		**SPARE**	20A	40
41	20A	**SPARE**			0	**SPARE**	20A	42

TOTAL CONNECTED LOAD PER PHASE (kVA)	3.96	2.22	1.98
TOTAL CONNECTED LOAD	8.16 KVA		22.6 A
TOTAL DEMAND LOAD	8.16 KVA		22.6 A

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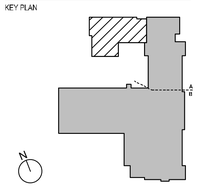

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ELECTRICAL PANEL SCHEDULE SHEET2

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