ADDENDUM #01

TO

INVITATION TO BID #01

ALTERATIONS TO
ACES at CHASE
565 CHASE PARKWAY, WATERBURY, CT
STATE PROJECT NO. 244-0044 MAG
DECEMBER 11, 2025

DECEMBER 18, 2025

Bids are modified and/or supplemented as follows and should be included in the Subcontractor's lump sum bid as it relates to their Bid Package Scope of Work:

GENERAL INFORMATION

All Bid Package Scopes of Work:

1. **ALL BIDS FOR ALL BID PACKAGES ARE TO BE SUBMITTED in duplicate** at the **ACES Staff Development Building located 205 Skiff Street, Hamden, Connecticut 06517, Attention: Downes Construction Company, LLC**. on ***January 13, 2026 by 2:00pm*** with the date and time indicated, after which time no further bids will be accepted. All bidders must include the Project Name and Bid Package Number & Description in the subject line of their email, for example, 'ACES at Chase – BP# 32.1 – Exterior Improvements'. Bids received will subsequently be opened publicly.

2. It is the responsibility of all bidders to review the drawings received against the Drawing List. If any drawings are missing from the bidding documents notify the Construction Manager immediately.

3. ALL Bidding Requirements listed in the original bidding documents remain as is, unless revised by the contents of this Addendum.

4. **ALL Bidders** should note that any unanswered pre-bid RFI's up to this point will be answered in forthcoming addendum.

5. **ALL Bidders** shall reference and incorporate the **attached** CHRO Good Faith Efforts Short Form Plan (GFE) which was formerly known as the Affirmative Action Plan (AAP)/ Set Aside Plan into the bid documents.

6. **ALL Bidders** should review and incorporate the **attached Bulletin #1 dated December 16, 2025** prepared by **S/P+A** and their consultants. This Addendum includes:
   - Changes to Drawings & Specifications
   - New drawings & New Specifications.

   Refer to the Bulletin for complete contents and how it may affect your Bid Package Scope.

ATTACHMENTS AS INDICATED ABOVE
END ADDENDUM #01 – INVITATION TO BID #01

Good Faith Efforts Plan
Short Form

Effective 10/1/2025

COVER PAGE

Company Name: _____

Company Address: _____

Telephone No.: _____

Facsimile No.: _____

Email Address: _____

Web Site Address: _____

Date Submitted: _____

GFE Plan Prepared by: _____

Name and Title of Head of Company: _____

This Good Faith Efforts Plan is submitted for (Name of project): _____

State Contract/Project No.: _____

Awarding Authority: _____

Total Contract Value:

M/W/DisBE Value as Assigned by the Awarding Authority: _____ % $ _____

SBE Value as Assigned by the Awarding Authority: _____ % $ _____

Table of Contents

Note: A Good Faith Efforts Plan (GFEP) meeting all the requirements of the following sections must be filed for *each* state-funded project

Note: A submission that does not adhere to this formatting may be rejected before it is reviewed. Any section that does not include a response to said section and/or its subsections herein will not be in compliance.

Section Number and Title — Page Number

Note For All Plans Filed and Reviewed After October 1, 2025:

The Good Faith Efforts Plan (GFEP) is an updated version reflective of recent Connecticut legislation that will be effective as of October 1, 2025. Any GFEP filed after that date will no longer require submissions for the following sections:

Section 1: Affirmative Action/Equal Employment Policy Statement

Section 2: Internal Communications

Section 3: External Communications

Any plan filed prior to October 1st that is still under review by the CHRO at that time will not receive a disapproval on account of any deficiencies in these sections.

Documentation Requirements

The following documentation is required to accompany this plan submission for all plans. Additional documentation requests may be made during the course of the review process in order to determine whether good faith efforts were made to comply with the statutory requirements:

- **A copy of the bid document for the public works contract**
  Please attach a copy of the contract's bid document (project manual, ITB, etc.) that specifies all the trades-related work, non-trades related work, and all materials required for the work on this project. Only include the portions necessary to verify your company's responses. *Please do not provide the full document.*

- **DAS Supplier Diversity Certifications**
  Please provide a copy of the Dept. of Administrative Services (DAS) Supplier Diversity Certificate for any subcontractor hired by you to work on this project.

- **Bid Tabulations**
  Please provide bid tabulations for all trade/service/material subcontracts awarded by your company on this project using the form available on our website.

Section 4: Project Description, Timeline, and Trades Involved

This section of the GFEP must detail everything that will be needed to perform the work of this specific project. If the question is not relevant to the project, a response of "N/A" is acceptable.

1. In 1–3 sentences, briefly describe the project and the work involved.

2. Estimate (mm/dd/yyyy) when construction will commence. If the project has already begun, provide the actual project mobilization date (mm/dd/yyyy). Specify whether the date provided is actual or estimated.

3. Estimate (mm/dd/yyyy) when construction will be completed. If the project is complete, provide the project end date (mm/dd/yyyy). Specify whether the date provided is actual or estimated.

4. List all of the types of trades-related for which your company will be hiring a subcontractor(s). Do not provide the name of the subcontractor(s). Only identify the specific work, not the type of worker.

5. List all specific types of materials to be used for this project that your company will be purchasing. Do not provide the name of the vendor(s).

6. List all specific types of non-trades-related services to be used for this project that your company will hire a service company to provide. Do not provide the name of the company.
   Ex: Portable toilets
   Trucking, Driver Only – No labor involved

7. List all trades-related services that will be self-performed by your company's employees. Only identify the specific work, not the type of worker.

8. List all supplies that will be manufactured by your company for use on this project.

Section 5: Subcontractor Availability Analysis

PART A: Before filling out the rest of this section, please check the DAS Supplier Diversity Program Database to confirm that every Small Business Enterprise (SBE), Minority-Business Enterprise (MBE), Women-Owned Business Enterprise (WBE), and Disabled Person-Owned Business Enterprise (DisBE) has an active certificate.

Follow this link to access the DAS Supplier Diversity Program Database.

PART B: List every SBE/MBE/WBE/DisBE subcontractor and/or vendor that your company solicited to bid on ***this*** contract, as shown in the example below.

For each subcontractor, indicate the trades-related work for which it was solicited. For each vendor, indicate the non-trades-related work or the materials for which it was solicited.

For example:

Company Name	DAS-Certification Type	Type of Trade/Vendor
ABC Construction	SBE	Rough Carpentry
Carpenter's LLC	DisBE	Rough Carpentry
Hard Knocks Woodwork	MBE	Rough Carpentry
Rumor Mill	MBE	Mill Work
The Mill Worm	MBE	Mill Work
Piece Mill	WBE	Mill Work
XYZ Material Suppliers	WBE	Hardwood Supplier
Best Floor Co.	DisBE	Hardwood Supplier
Got 2 Go	SBE	Portable toilets
Number 1	MBE	Portable toilets
When Nature Call	SBE	Portable toilets

Company Name	DAS-Certification Type	Type of Trade/Vendor

PART C: Indicate the bid outcome for each company listed in Part B. Your company must be able to explain and document to the CHRO the reason(s) why your company did not award a subcontract to each of the companies solicited in Part B. An overly vague response, such as "Bid Received," "Called/Left Message," "Said Will Bid" etc., is insufficient. For those companies that you will utilize for this project, use "Awarded" as the bid result.

For example:

Company Name	DAS Certification Type	Reason for Awarding/Not Awarding
ABC Construction	Rough Carpentry	Bid Incomplete
Carpenter's LLC	Rough Carpentry	Bid Too High
Hard Knocks Woodwork	Rough Carpentry	Bid Too High
Rumor Mill	Mill Work	Awarded
The Mill Worm	Mill Work	Bid Too High
XYZ Material Suppliers	Hardwood Supplier	Bid Too High
Best Floor Co.	Hardwood Supplier	Declined To Bid
Got 2 Go	Portable toilets	Declined To Bid
Number 1	Portable toilets	Bid Too High
When Nature Call	Portable toilets	Scheduling Conflict

Company Name	DAS Certification Type	Reason for Awarding/Not Awarding

PART D: List all non-S/M/W/DisBE companies (i.e., companies not already accounted for in Part B & Part C) that your company will use on this project. This list must inform CHRO of all trade-related work, materials, and/or non-trades-related services that the companies listed will provide. Any company performing a specialized trade or supplying specialized materials/services must be indicated and accompanied by a letter attesting to such from (i.e., signed) by the awarding agency. See the example below.

For example:

Company Name	Type of Trade/Vendor
Color Coded Painting, LLC	Rough Carpentry
Pristine Port-a-lets	Portable toilets
Boltz, Inc.	High and Low Voltage Installation*

*The electrical portion of this project is specialized and can only be performed by Boltz, Inc. Please see the attached letter verifying such, in detail, from the project manager at the awarding agency.

Company Name	Type of Trade/Vendor

Section 6: Minority Business Enterprise Goals and Timetables

On Attachment III:

- Provide all the information requested in the Attachment III.
- List all the MBEs, WBEs, and DisBEs you designated in Section 5–Part C as "Awarded" in the top portion ("A") of Attachment III.
- List all the SBEs you designated in Section 5–Part C as "Awarded" in the bottom portion ("B") of Attachment III.
- Input all percentages requested in the Attachment III.

Once your company's Plan is approved, your company may not add or delete any of the companies nor alter any of the contract values as listed on the Attachment III of your company's approved Plan, except as follows. After your company's Plan is approved, Attachment III may be altered only if your company submits the following items:

I) A cover letter that
   A) Requests acknowledgement of the change and
   B) Details the reason(s) why the CHRO should grant the change.

II) Documentation that verifies the reason(s) for removal or addition
   A) For removal: confirmation that the business is closed, a change order from the owner that eliminates a subcontractor's portion of the project, etc.
   B) For addition: a copy of the company's current DAS S/M/W/DisBE certification;

II) A Revised Attachment III listing the date of the revision (in mm/dd/yyyy format) and incorporating the requested change.

NOTE: Upon a project's completion, only those companies that are listed on the latest approved Attachment III, and who have maintained a current DAS Supplier Diversity certification throughout the duration of the project, will be utilized in the CHRO's final calculations of actual goal achievement upon the project's completion.

The CHRO encourages your company to not just meet its spending allocation goals, but to surpass them in order to ensure project circumstances (e.g., delays, change orders, decrease between estimate amount and contract amount) do not cause your company to fall below the spending allocation goals as projected in its approved Good Faith Efforts Plan.

A current copy of the DAS certificate must be attached to this section for each subcontractor/vendor listed on Attachment III. ***Without a current copy of each company's valid DAS Supplier Diversity certification, the value of the contract will not be taken into account for the determination of whether your company has met its spending allocation goals.***

Attachment III

Total Project Contract Value $ _____.

State-funded Portion of the Contract Value $ _____.

A. Please identify MBE/WBE/DisBE subcontractors/vendors who will participate on the project.

Company Name	Address	DAS Certification Type (MBE/WBE/DisBE)	DAS Certification Expiration Date	Contract Value
			Total amount of MBE, WBE, & DisBE contract values: $	(Total amount of MBE, WBE, & DisBE contract values ÷ project value **x** 100) %

B. Please identify SBE contractors/vendors who will participate on the project.

Company Name	Address	DAS Certification Type (SBE)	DAS Certification Expiration Date	Contract Value
			Total amount of SBE contract values: $	Total amount of SBE contract values ÷ project value **x** 100= %
Total amount of all contract values listed in A & B =			$	Total amount of all contract values listed in A & B ÷ project value **x** 100 = %

C. Please identify all non-DAS certified contractors/vendors who will participate on the project.

Company Name	Address	Contract Value
		Total amount of non-certified companies contract values ÷ project value **x** 100= %

Total amount of all contract values listed in A & B & C ÷ project value **x** 100 = %

Please use additional sheets if necessary

Please use the ***State-funded Portion* of the Contract Value to calculate the achieved goal ***percentages***.

The sum of all contract values listed in A, B and C should equal the ***Total Project Contract Value.*

Section 7: Close Out Documentation Notice

Please note that this section no longer requires monthly compliance forms to be filed. This is a change from the previous plan format.

Contractors are required to provide the following documentation within forty-five (45) days from the date of substantial completion. Failure to submit this documentation may result in an enforcement action being brought.

Within 45 days of substantial completion, please provide:

- Notice of Substantial Completion from the project owner.
- A full and complete list of all subcontractors/vendors/service providers awarded for the project.
- Lien waivers for all of the awarded subcontractors/vendors/service providers awarded for the project.

If you have any questions, please contact the Contract Compliance unit for assistance.

☐ **I understand my obligations to provide the above documentation within forty-five (45) days of my company's substantial completion date.**

Section 8: Concluding Statement

I have read and pledge my full support to all sections of this Good Faith Efforts Plan, and that the commitments therein, are true and correct to the best of my knowledge. I pledge my “best good faith efforts” to achieve the objectives of the Plan within the established time frames.

Furthermore, this company will comply with any request by the Commission for records and documents. It understands that failure to do so may subject this company to enforcement action by the Commission.

Click or tap to enter a date.
Date

Head of Company’s Signature

Printed Name and Title

ALTERATIONS

ACES at CHASE
565 CHASE PARKWAY
WATERBURY, CT 06708
STATE PROJECT #244-0044 MAG

S/P+A PROJECT #22.050

DATE: December 16, 2025

The following changes to the Drawings and Project Specifications shall become a part of the Drawings and Project Specifications; superseding previously issued Drawings and Project Specifications to the extent modified by Bulletin #1.

New Specifications:

- SECTION 090561.13, MOISTURE VAPOR EMISSION CONTROL has been added and is attached as part of this bulletin. (4) *(Per Owner Request)*

Changes to the Specifications:

- TABLE OF CONTENTS, Page 3, Division 09 – Finishes, add the following:

  "Section 090561.13 Moisture Vapor Emission Control 4" *(Per Owner Request)*

- DRAWING LIST, Page 4, Plumbing Drawings:
  - Revise "P051-1-P109-1" to read "P051-1-P108-1".
  - Add the following:

    "P109-1 BUILDING 1 – UNDER SLAB PLAN – PLUMBING" *(Per Internal Review)*

- SECTION 035416, HYDRAULIC CEMENT UNDERLAYMENT:
  - Page 2:
    - Article 2.2.A., after "¼-inch" add "(per coat).
    - Article 2.2.A.1.a., revise "**K 520**" to read "**K 15**".
    - Article 2.2.A.4., revise "6000" to read "5500". *(Per Internal Review)*

- SECTION 088000, GLAZING:
  - Page 12:
    - Article 3.12.B., revise to read as follows:

      "Glass Type **GL-10**: Low-e coated, clear, tempered insulating glass.

      1. Overall Unit Thickness: 1-inch.
      2. Thickness of Each Glass Lite: ¼-inch.
      3. Outdoor Lite: Fully tempered float glass.
      4. Interspace Content: Argon.

5. Indoor Lite: Fully tempered float glass.
6. Low-E Coating: Pyrolitic on second surface.
7. Provide safety glazing labeling."

- Articles 3.12.D. and .G., delete in their entirety.

- Page 13, Article 3.13.H., delete in its entirety.
- Page 14, Article 3.14.A., revise to read as follows:

  "Glass Type **GL-6**: Fire-rated glazing with 450 deg F temperature rise limitation; laminated glass with intumescent interlayers." *(Per Internal Review)*

- SECTION 096516, RESILIENT SHEET FLOORING, Page 4, Article 3.2.C., add to the end the following:

  "Comply with requirements in Section 035416, "Hydraulic Cement Underlayment". *(Per Internal Review)*

- SECTION 096519, RESILIENT TILE FLOORING, Page 4, Article 3.2.C., add to the end the following:

  "Comply with requirements in Section 035416, "Hydraulic Cement Underlayment". *(Per Internal Review)*

- SECTION 096813, TILE CARPETING, Page 4, Article 3.2.B., add to the end the following:

  "Comply with requirements in Section 035416, "Hydraulic Cement Underlayment". *(Per Internal Review)*

New Drawings:

- Building 1, DRAWING P109-1, BUILDING 1 – UNDER SLAB PLAN - PLUMBING has been added and is attached as part of this bulletin.* *(Per Internal Review)*

Changes to the Drawings:

- Building 1:

  - DRAWING G001-1, BUILDING 1 – GENERAL INFORMATION & DRAWING LIST, delete in its entirety. A new DRAWING G001-1 has been added and is attached as part of this bulletin.* *(Per Internal Review)*

  - The following STRUCTURAL drawings have been deleted in their entirety. New drawings (2) have been added and are attached as part of this bulletin*:

    - S150-1 BUILDING 1 – ROOF FRAMING PLAN – OVERALL *(Per Internal Review)*
    - S400-1 FLOOR SECTIONS *(Per Internal Review)*

  - DRAWING P001-1, BUILDING 1 – COVER SHEET – PLUMBING, delete in its entirety. A new DRAWING P001-1 has been added and is attached as part of this bulletin.* *(Per Internal Review)*

  - The following MECHANICAL drawings have been deleted in their entirety. New drawings (3) have been added and are attached as part of this bulletin*:

- M111-1 BUILDING 1 – MAIN LEVEL PLAN – DUCTWORK *(Per Cx)*
- M211-1 BUILDING 1 – MAIN LEVEL PLAN – PIPING *(Per Cx)*
- M402-1 BUILDING 1 – SCHEDULES - MECHANICAL *(Per Cx)*

- The following ELECTRICAL drawings have been deleted in their entirety. New drawings (5) have been added and are attached as part of this bulletin*:

  - E200-1 BUILDING 1 – BASEMENT LEVEL POWER PLAN *(Per Internal Review)*
  - E210-1 BUILDING 1 – MAIN LEVEL POWER PLAN *(Per Internal Review)*
  - E220-1 BUILDING 1 – SECOND LEVEL POWER PLAN *(Per Internal Review)*
  - E230-1 BUILDING 1 – THIRD LEVEL POWER PLAN *(Per Internal Review)*
  - E400-1 BUILDING 1 – DETAILS *(Per Cx)*

- Building 2:

  - The following ELECTRICAL drawings have been deleted in their entirety. New drawings (4) have been added and are attached as part of this bulletin*:

    - E200-2 BUILDING 2 – LOWER LEVEL POWER PLAN – PART 'A'*(Per Internal Review)*
    - E210-2 BUILDING 2 – MAIN LEVEL POWER PLAN – PART 'A'*(Per Internal Review)*
    - E220-2 BUILDING 2 – MEZZANINE LEVEL POWER PLAN – PART 'A'*(Per Internal Review)*
    - E400-2 BUILDING 2 – DETAILS *(Per Cx)*

- Building 4:

  - The following ELECTRICAL drawings have been deleted in their entirety. New drawings (3) have been added and are attached as part of this bulletin*:

    - E200-4 BUILDING 4 – MAIN LEVEL POWER PLAN *(Per Internal Review)*
    - E210-4 BUILDING 4 – UPPER LEVEL POWER PLAN*(Per Internal Review)*
    - E400-4 BUILDING 4 – DETAILS *(Per Cx)*

- Building 5, DRAWING E400-5, BUILDING 5 – DETAILS, delete in its entirety. A new DRAWING E400-5 has been added and is attached as part of this bulletin.* *(Per Cx)*

- Building 6, DRAWING E400-6, BUILDING 6 – DETAILS, delete in its entirety. A new DRAWING E400-6 has been added and is attached as part of this bulletin.* *(Per Cx)*

The bulletin consists of seven (7) pages of 8½" x 11" text and twenty-two (22) 30" x 42" drawings*.
End of Bulletin #1

SECTION 090561.13 - MOISTURE VAPOR EMISSION CONTROL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Fluid-applied, resin-based, membrane-forming systems that control the moisture-vapor-emission rate of high-moisture, interior concrete to prepare it for floor covering installation.

B. Related Sections:

1. Section 012100 “Allowances” for work of this Section included in allowances.
2. Section 035416 “Hydraulic Cement Underlayment” for underlayment installed over moisture vapor control system.

1.3 DEFINITIONS

A. MVE: Moisture vapor emission.

B. MVER: Moisture vapor emission rate.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product, including installation instructions.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and manufacturer.

B. Product Test Reports: For each MVE-control system, for tests performed by manufacturer and witnessed by a qualified testing agency.

C. Sample Warranties: For special warranties.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Produces moisture vapor control systems for not less than ten (10) years.
2. Employs factory-trained personnel who are available for consultation and Project-site inspection.

B. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating directions for storage and mixing with other components. Each container shall be marked with batch or lot code traceable to manufacturing information.

B. Store products in an approved ventilated dry area; protect from dampness, freezing, and direct sunlight.

C. Handle products using methods that prevent breakage or damage of containers and prevent contamination of products.

1.8 FIELD CONDITIONS

A. Environmental Limitations: Comply with MVE-control system manufacturer's written instructions for substrate and ambient temperatures, humidity, ventilation, and other conditions affecting system installation.

1. Store system components in a temperature-controlled environment and protected from weather and at ambient temperature of not less than 50 deg F and not more than 85 deg F at least 48 hours before use.
2. Maintain ambient temperature and relative humidity in installation areas within range recommended in writing by MVE-control system manufacturer, but not less than 50 deg F or more than 85 deg F and not less than forty percent (40%) or more than sixty percent (60%) relative humidity, for 48 hours before installation, during installation, and for 48 hours after installation unless longer period is recommended in writing by manufacturer.
3. Install MVE-control systems where concrete surface temperatures will remain a minimum of 5 deg F higher than the dew point for ambient temperature and relative humidity conditions in installation areas for 48 hours before installation, during installation, and for 48 hours after installation unless longer period is recommended in writing by manufacturer.

1.9 WARRANTY

A. Special Warranties:

1. Manufacturer’s standard fifteen (15) year warranty.
2. Installer’s standard workmanship warranty, a minimum of one (1) year.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. MVE-Control System Capabilities: Capable of suppressing MVE without failure where installed on concrete that exhibits the following conditions:

1. MVER: 25 lb. of water/1000 sq. ft. when tested according to ASTM F 1869.
2. Relative Humidity: Maximum one hundred percent (100%) when tested according to ASTM F 2170 using in situ probes.

B. Water-Vapor Transmission: Through MVE-control system, maximum 0.10 perm when tested according to ASTM E 96.

2.2 MVE-CONTROL SYSTEM

A. Basis-of-Design:

1. Ardex Engineered Cements; **MC RAPID**

B. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. KOSTER American Corporation
2. Laticrete International, Inc.
3. Maxxon Corporation

C. MVE-Control System: ASTM F 3010-qualified, fluid-applied, two-component, epoxy-resin, membrane-forming system; formulated for application on concrete substrates to reduce MVER to level required for installation of floor coverings indicated and acceptable to manufacturers of floor covering products indicated, including adhesives.

1. Substrate Primer: Provide MVE-control system manufacturer's concrete-substrate primer if required for system indicated by substrate conditions.
2. Cementitious Underlayment Primer: If required for subsequent installation of cementitious underlayment products, provide MVE-control system manufacturer's primer to ensure adhesion of products to MVE-control system.

2.3 ACCESSORIES

A. Patching and Leveling Material: Moisture-, mildew-, and alkali-resistant product recommended in writing by MVE-control system manufacturer and with minimum of 3000-psi compressive strength after twenty-eight (28) days when tested according to ASTM C 109.

B. Crack-Filling Material: Resin-based material recommended in writing by MVE-control system manufacturer for sealing concrete substrate crack repair.

C. Cementitious Underlayment: If required to maintain manufacturer's warranty, provide MVE-control system manufacturer's hydraulic cement-based underlayment. Comply with requirements in Section 035416 “Hydraulic Cement Underlayment”.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for maximum moisture content, installation tolerances, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

1. Installation of system indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Concrete Substrates: Prepare and clean substrates according to MVE-control system manufacturer's written instructions to ensure adhesion of system to concrete.

1. Remove coatings and other substances that are incompatible with MVE-control system and that contain soap, wax, oil, or silicone, using mechanical methods recommended in writing by MVE-control system manufacturer. Do not use solvents.
2. Provide concrete surface profile complying with ICRI 310.2R CSP 3 by shot blasting using apparatus that abrades the concrete surface with shot, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
3. After shot blasting, repair damaged and deteriorated concrete according to MVE-control system manufacturer's written instructions.
4. Protect substrate voids and joints to prevent resins from flowing into or leaking through them.
5. Fill surface depressions and irregularities with patching and leveling material.
6. Fill surface cracks, grooves, control joints, and other non-moving joints with crack-filling material.
7. Allow concrete to dry, undisturbed, for period recommended in writing by MVE-control system manufacturer after surface preparation, but not less than 24 hours.
8. Before installing MVE-control systems, broom sweep and vacuum prepared concrete.

B. Protect walls, floor openings, electrical openings, door frames, and other obstructions during installation.

3.3 INSTALLATION

A. Install MVE-control system according to ASTM F 3010 and manufacturer's written instructions to produce a uniform, monolithic surface free of surface deficiencies such as pin holes, fish eyes, and voids.

1. Install primers as required to comply with manufacturer's written instructions.

B. Do not apply MVE-control system across substrate expansion, isolation, and other moving joints.

C. Apply system, including component coats if any, in thickness recommended in writing by MVE-control system manufacturer.

D. Cure MVE-control system components according to manufacturer's written instructions. Prevent contamination or other damage during installation and curing processes.

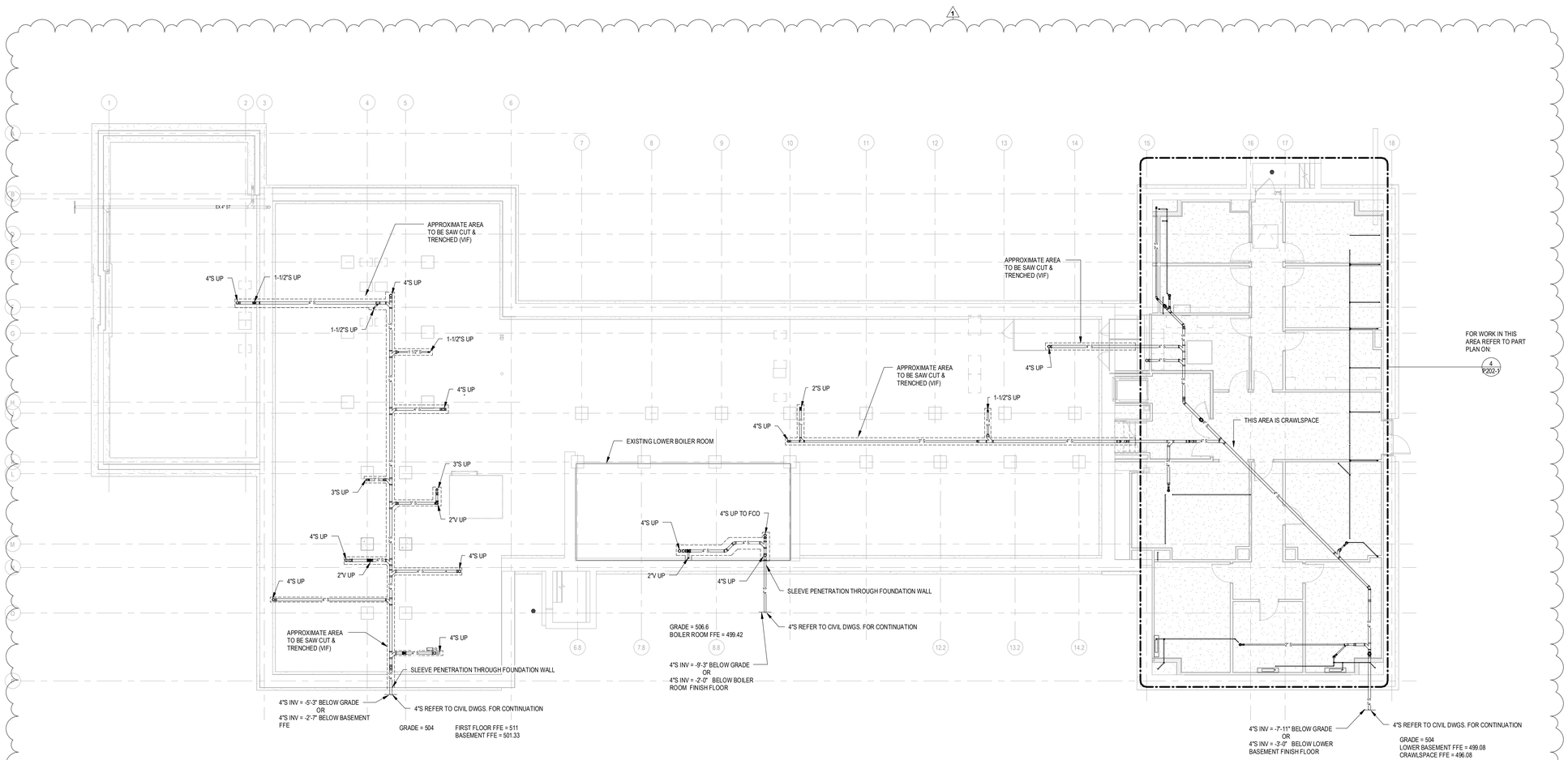
E. After curing, examine MVE-control system for surface deficiencies. Repair surface deficiencies according to manufacturer's written instructions.

3.4 PROTECTION

A. Protect MVE-control system from damage, wear, dirt, dust, and other contaminants before floor covering installation. Use protective methods and materials, including temporary coverings, recommended in writing by MVE-control system manufacturer.

B. Do not allow subsequent pre-installation examination and testing for floor covering installation to damage, puncture, or otherwise compromise the MVE-control system membrane.

END OF SECTION 090561.13



1 UNDER SLAB PLAN

1/8" = 1'-0"

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/19/25	MPB

Drawing Title:
BUILDING 1 - UNDER SLAB PLAN - PLUMBING

Project Phase:
ISSUED FOR BID - 11/03/2025

State Project Number:
#244-0044 MAG

Date:
AUGUST 12, 2025

Scale:
1/8" = 1'-0"

Drawn By:
MPB

Project Number:
22.050

Drawing Number:
P109-1

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ABBREVIATIONS

A.C.T.	ACOUSTICAL CEILING TILE
ADJ.	ADJUSTABLE
ALUM.	ALUMINUM
A.B.	ANCHOR BOLT
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
A.C.P.	ASBESTOS CEMENT PIPE
ASPH.	ASPHALT
AVG.	AVERAGE
BSMT.	BASEMENT
BRG.	BEARING
BIT.	BITUMINOUS
BLK.	BLOCK
BD.	BOARD
B.S.	BOTH SIDES
BRK.	BRICK
BLDG.	BUILDING
C.I.	CAST IRON
C.I.P.	CAST IN PLACE CONCRETE
C.B.	CATCH BASIN
C.B.R.	CATCH BASIN TO BE REMOVED
CLG.	CEILING
C.	CENTER LINE
C-BD.	CHALK BOARD
C.O.	CLEAN OUT
COL.	COLUMN
CONC.	CONCRETE
C.M.U.	CONCRETE MASONRY UNIT
CONF.	CONFERENCE
CONT.	CONTINUOUS, CONTINUE
CONTR.	CONTRACTOR
C.J.	CONTROL JOINT
C.C.	CURB CUT
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DR.	DOOR
DN.	DOWN
DWG.	DRAWING
EA.	EACH
E.F. / E.W.	EACH FACE / EACH WAY
ED.	EDUCATION
E / ELEC.	ELECTRICAL
EL. / ELEV.	ELEVATION
EMER.	EMERGENCY
ENCL.	ENCLOSURE
ENT.	ENTRANCE
EP.	EPOXY PAINT
EQ.	EQUAL
EXAM.	EXAMINATION
EXIST.	EXISTING
EXP.	EXPANSION
E.J.	EXPANSION JOINT
EXT.	EXTERIOR
F.S.	FAR SIDE
FIN.	FINISH, FINISHED
F.F.	FINISHED FLOOR
FIXT.	FIXTURE
FL.	FLOOR
F.P.	FOLDING PARTITION
FT.	FOOT
FTG.	FOOTING
FDN.	FOUNDATION
G.	GAS
GA.	GAUGE
GEN.	GENERAL
G.C.	GENERAL CONTRACTOR
GYP.	GYPSUM
GYP. BO.	GYPSUM BOARD
H.C.	HANDICAPPED
HDWE.	HARDWARE
HD.	HEADED
HGT.	HEIGHT
H.P.	HIGH POINT
H.M.	HOLLOW METAL
HORZ.	HORIZONTAL, HORIZONTALLY
H.B.	HOSE BIB
HR.	HOUR
HYD.	HYDRANT
INSUL.	INSULATION, INSULATED
INT.	INTERIOR
INV.	INVERTED
JAN.	JANITOR
K.P.	KICK PLATE
LAM.	LAMINATE
L.F.	LINEAR FOOT
LG.	LONG
LOC.	LOCATION
L.P.	LOW POINT
LTG.	LIGHTING
M.H.	MANHOLE
MAS.	MASONRY
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
M.	MINUTE
MISC.	MISCELLANEOUS
MTD.	MOUNTED
N.S.	NEAR SIDE
NOM.	NOMINAL
N.A.	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
NO.	NUMBER
OCC.	OCCUPANT
O.C.	ON CENTER
OPNG.	OPENING
O.D.	OUTSIDE DIMENSION
PTD.	PAINTED
P.C.B.	PAINTED CONCRETE BLOCK
P.G.B.	PAINTED GYPSUM BOARD
PL.	PLATE
PLUMB.	PLUMBING
PREP.	PREPARATION, PREPARE
P.T.	PRESSURE TREATED
PROJ. MAN	PROJECT MANUAL
P.V.C.	POLYVINYL CHLORIDE
RAD.	RADIUS
R.C.P.	REINFORCED CONCRETE PIPE
RCP	REFLECTED CEILING PLAN
REINF.	REINFORCEMENT
REQD.	REQUIRED
R.	RISER
R.D.	ROOF DRAIN
R.H.	ROOF HATCH
R.L.	ROOF LEADER
RM.	ROOM
SAN.	SANITARY
SCHED.	SCHEDULE
S.C.	SEALED CONCRETE
SECT.	SECTION
S.W.	SHEAR WALL
S.W.F.	SHEAR WALL FOOTING
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATIONS
SQ.	SQUARE
SQ. FT.	SQUARE FEET
STL.	STEEL
S.F.	STEP FOOTING
S.	STORM
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED, SUSPENSION
TECH.	TECHNOLOGY
T.	TELEPHONE
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.F.	TOP OF FRAME
T/S	TOP OF SLAB
T.O.S.	TOP OF STEEL
T/W	TOP OF WALL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.I.F.	VERIFY IN FIELD
VERT.	VERTICAL
V.B.	VINYL BASE
V.C.T.	VINYL COMPOSITE TILE
W.	WATER
W.C.J.	WALL CONTROL JOINT
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH
W/	WITH
WD.	WOOD
@	AT
Ø	DIAMETER

SYMBOL LEGEND

- 101 / A - DOOR NUMBER
- ? - WINDOW TYPE
- ? / ? - ROOM NAME / ROOM NUMBER
- ? - PARTITION TYPE
- X - CONSTRUCTION NOTE
- X - GLAZING TYPE
- 2 / A101 - EXTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 - INTERIOR ELEVATION NUMBER / SHEET NUMBER
- 2 / A101 - BUILDING SECTION NUMBER / SHEET NUMBER
- 2 / A101 - WALL SECTION NUMBER / SHEET NUMBER
- REFERENCE POINT
- X - REVISION MARK

GRAPHIC LEGEND

- CONCRETE
- CONCRETE MASONRY UNITS
- BRICK
- STONE
- METALS
- COMPACTED GRAVEL
- EARTH
- PLYWOOD
- ACOUSTICAL TILE
- WOOD FRAMING - THROUGH MEMBER
- WOOD FRAMING - INTERRUPTED MEMBER
- FINISHED WOOD
- BATT INSULATION
- RIGID INSULATION
- GYPSUM BOARD
- NEW SINGLE DOOR
- NEW DOUBLE DOOR
- EXISTING DOOR TO REMAIN
- REMOVE EXISTING DOOR

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS & DIMENSIONS PRIOR TO FABRICATION, FURNISHING AND INSTALLATION OF ANY MATERIALS, EQUIPMENT AND WORK.
2. ALL MATERIALS & EQUIPMENT SHOWN ARE NEW TO BE PROVIDED BY CONTRACTOR UNLESS OTHERWISE NOTED.
3. ALL EXISTING UTILITIES & EQUIPMENT LOCATIONS ARE APPROXIMATE - CONTRACTOR SHALL FIELD VERIFY AND/OR COORDINATE EXACT LOCATIONS.
4. CONTRACTOR ASSUMES ALL RESPONSIBILITY DURING CONSTRUCTION TO PROTECT MATERIALS AND EQUIPMENT. ANY & ALL DAMAGED ITEMS & EQUIPMENT DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
5. ALL RATED DOORS & DOORS FRONTING A CORRIDOR SHALL HAVE POSITIVE LATCHING LOCKSETS UNLESS OTHERWISE INDICATED ON THE DOOR SCHEDULE.
6. All DOORS LEADING TO HAZARDOUS AREAS SHALL HAVE TACTILE WARNING.
7. ALL DOORS EXITING 50 PERSONS OR MORE SHALL HAVE PANIC EXIT DEVICES.
8. ALL HANDICAP ACCESSIBLE DOOR HARDWARE SHALL BE PROVIDED TO COMPLY WITH ADA, ANSI AND ALL OTHER APPLICABLE CODES.
9. ALL NEW EXPOSED/VISIBLE DECKING, BEAMS, COLUMNS, JOISTS AND OTHER STRUCTURAL COMPONENTS SHALL BE PAINTED UNLESS OTHERWISE NOTED.
10. IF A NOTE IS FOUND ON ARCHITECTURAL DRAWINGS READING - "SEE STRUCTURAL DRAWINGS" - AND SIZE AND DETAILING OF MEMBER(S) IS NOT FOUND, THE CONTRACTOR SHALL CONTACT THE ARCHITECT TO REQUEST MISSING INFORMATION. THESE ITEMS SHALL BE PART OF THE BASE BID AND STEEL SUBCONTRACTOR SHALL REVIEW STRUCTURAL AS WELL AS ARCHITECTURAL DRAWINGS PRIOR TO BIDDING.
11. ALL CONTRACTORS SHALL REVIEW DRAWINGS AND PROJECT MANUAL. IF THERE IS A DISCREPANCY BETWEEN THE TWO OR ANY OTHER PARTS OF THE DOCUMENTS, THE HIGHER VALUE (IN DOLLARS) SHALL PREVAIL AS THE SCOPE OF WORK THAT WILL BE PRICED UNLESS OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT DURING THE BIDDING PERIOD.
12. PATCH ALL EXISTING WALLS AND OTHER SURFACES AFFECTED BY DEMOLITION AND REMOVAL WITH MATERIALS TO MATCH EXISTING.
13. SAW CUT AND REMOVE PORTIONS OF CONCRETE SLAB AS REQUIRED TO ACCOMMODATE NEW PLUMBING, ELECTRICAL, MECHANICAL, AND OTHER TRADES. COORDINATE WIDTH AND DEPTH OF TRENCHING WITH M.E.P. DRAWINGS FOR SCOPE OF NEW WORK REQUIRED.
14. WALL OPENINGS RESULTING FROM REMOVAL OF DUCTS, PIPES, CONDUITS, ETC. SHALL BE INFILLED WITH MATERIALS TO MATCH THE WALL. SEE M.E.P. DRAWINGS FOR LOCATIONS OF REMOVAL.
15. WHERE NEW DUCTS, PIPES, AND CONDUIT PASS THROUGH EXISTING WALLS, PROVIDE OPENING AND HEADER AS REQUIRED AND SEAL THE PERIMETER OF THE PENETRATIONS FOR SOUND TRANSMISSION RESISTANCE AND FIRE RATING WHERE INDICATED ON CODE PLANS AND OTHER DRAWINGS. ALSO SEE MEP DRAWINGS.

LIST OF DRAWINGS

VOLUME 1

Project Title:

ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	BJV

Drawing Title:
BUILDING 1 - GENERAL INFORMATION AND DRAWING LIST

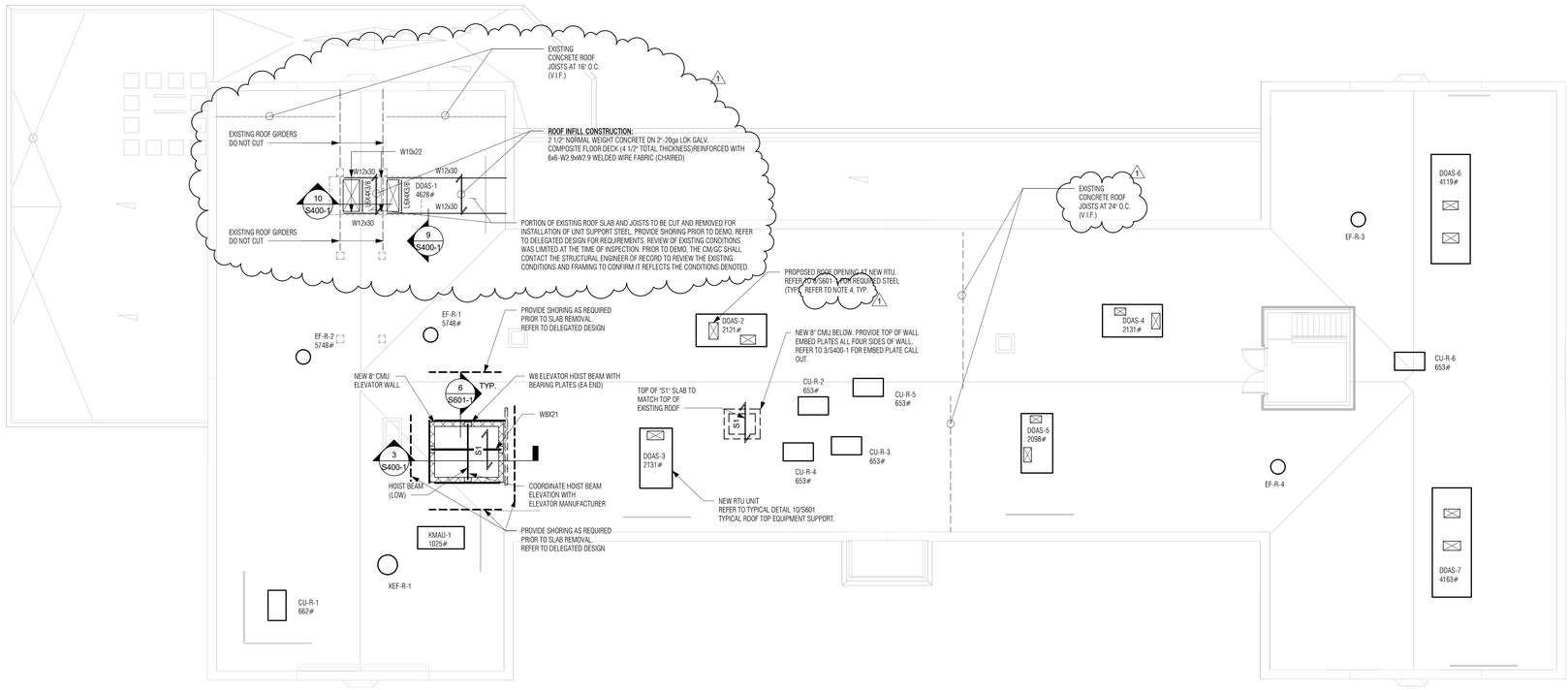
Project Phase:
ISSUED FOR BID - 11/03/2025

State Project Number:
#244-0044 MAG

Date: AUGUST 12, 2025
Scale: 12" = 1'-0"
Drawn By: BJV
Project Number: 22.050

Drawing Number:
G001-1

12/16/2025 10:08:17 AM



1 ROOF FRAMING PLAN - OVERALL

1/8" = 1'-0"

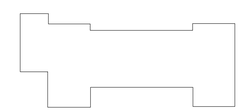
ROOF CONSTRUCTION NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING FRAMING SIZES, SPACING AND LOCATIONS PRIOR TO SUBMITTING SHOP DRAWINGS
2. REFER TO DRAWING S-601-1 FOR ALL ROOF FRAMES AT OPENINGS. COORDINATE ALL OPENING LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
3. WHERE ROOF EQUIPMENT WEIGHT IS NOT DENOTED, EQUIPMENT SPECIFICATION MUST BE SUBMITTED PRIOR TO CONSTRUCTION TO CONFIRM EQUIPMENT WEIGHT ADEQUACY ON EXISTING STRUCTURE.
4. WHERE POSSIBLE, ROOF PENETRATIONS SHALL BE CONFIGURED OR ADJUSTED TO AVOID CUTTING EXISTING CONCRETE ROOF JOISTS. IF EQUIPMENT OPENING IS LARGER THAN EXISTING CONCRETE JOIST SPACING, PROVIDE SUBSEGENT STRUCTURAL STEEL AS DETAILED AT DOAS-1. FIELD REVIEW AND VERIFICATION OF ALL PENETRATION LOCATIONS IS REQUIRED AFTER REMOVAL OF FINISHES IN THE AREA FOR THE SER TO REVIEW WITH THE CM AND ARCHITECT.

INDICATES FLOOR/ROOF OPENING WITHIN EXISTING STRUCTURE. COORDINATE ALL OPENING SIZES, CONFIGURATIONS, QUANTITIES, AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO WORK.
REFER TO 12/S600-1 FOR "TYPICAL OPENING IN EXISTING CONCRETE SLAB" DETAIL.

INDICATES CMU WALL. REFER TO GENERAL NOTES, TYPICAL DETAILS AND SCHEDULES FOR WALL REQUIREMENTS.

S1 — ROOF CONSTRUCTION: 4 1/2" NORMAL WEIGHT CONCRETE ON 2"-18ga LOK GALV. COMPOSITE FLOOR DECK (6 1/2" TOTAL THICKNESS)REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE FABRIC (CHAIRED). (2 HOUR RATED ASSEMBLY)



KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

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Revision:	Description:	Date:	Reviewed By:
1	Bulletin #1	12/16/25	LVP

MHAI
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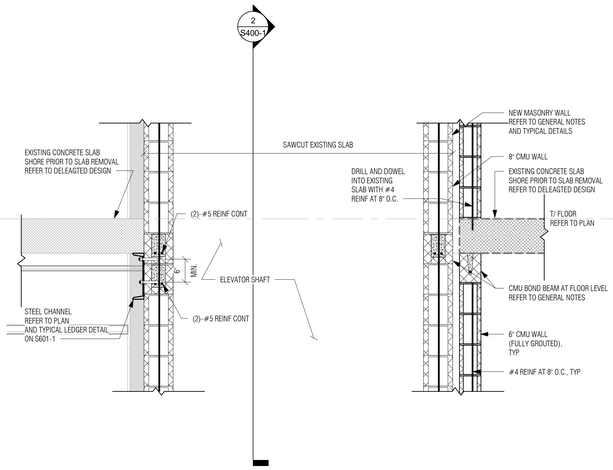
Drawing Title: BUILDING 1 - ROOF FRAMING PLAN - OVERALL
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

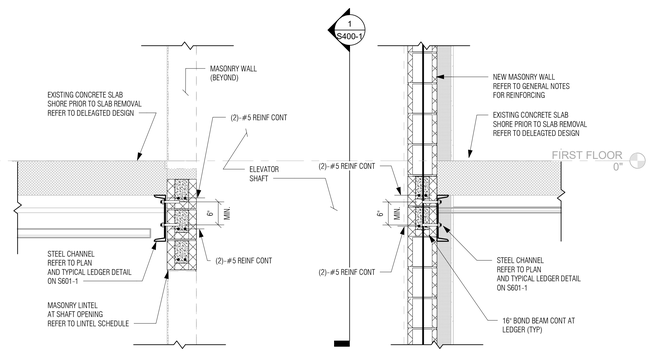
Date: AUGUST 12, 2025
Scale: 1/8" = 1'-0"
Drawn By: AC
Project Number: 22.050

Drawing Number: S150-1

12/16/2025 12:00:03 PM



1 SECTION
3/4" = 1'-0" REFERENCE: 1/ S120-1



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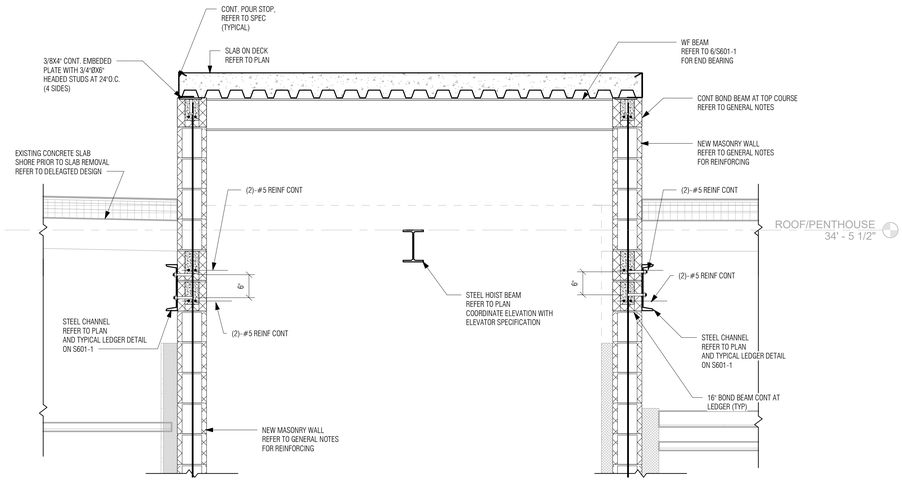
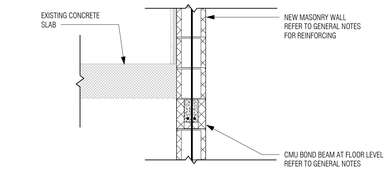
3/4" = 1'-0" REFERENCE: 1/ S120-1



3 Section 16
3/4" = 1'-0" REFERENCE: 1/ S150-1



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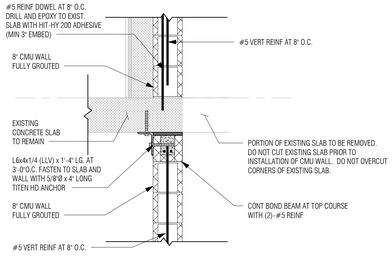

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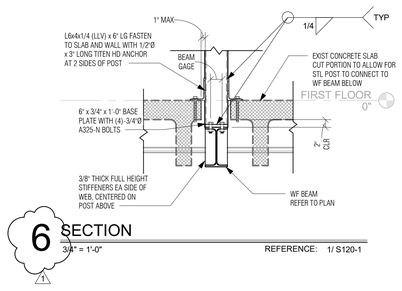

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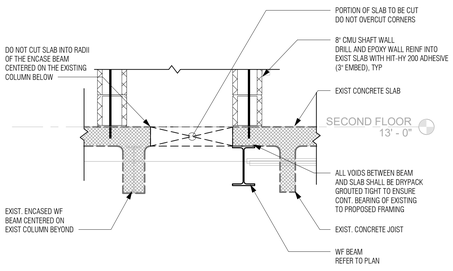

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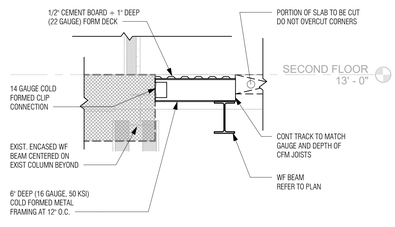

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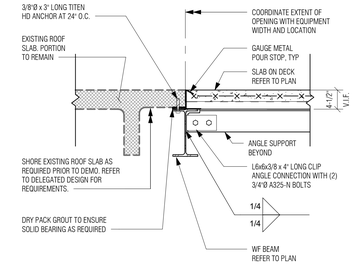

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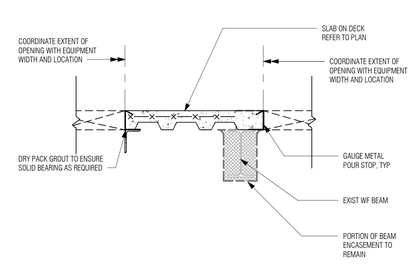
3/4" = 1'-0" REFERENCE: 1/ S150-1



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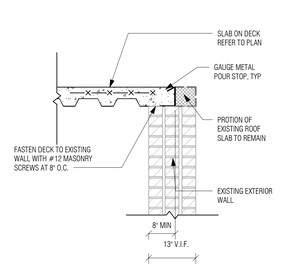
3/4" = 1'-0" REFERENCE: 1/ S150-1



11 SECTION
3/4" = 1'-0" REFERENCE:

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
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311 STATE STREET NEW LONDON CT 06320
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Revision:	Description:	Date:	Reviewed By:
1	Bulletin #1	12/16/25	LVP

MHAI
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Drawing Title: FLOOR SECTIONS
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
Scale: 3/4" = 1'-0"
Drawn By: LVP
Project Number: 22.050

Drawing Number: S400-1

12/16/2025 12:00:07 PM

PLUMBING GENERAL NOTES

GENERAL

THE INTENT OF THESE CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS) IS FOR THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE PLUMBING SYSTEMS. ALL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS. OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.

WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.

ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.

WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.

WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM..

ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.

STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

THIS CONTRACTOR SHALL COORDINATE ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR INSTALLATION. COORDINATE REQUIREMENTS.

PROVIDE AND INSTALL ALL MAKE-UP WATER DISTRIBUTION TO HVAC EQUIPMENT INCLUDING BACKFLOW PREVENTER.

PROVIDE AND INSTALL INDIRECT CONDENSATE WASTE PIPING AND TRAP TO FLOOR DRAIN OR DRAIN RECEPTOR FROM ALL HVAC EQUIPMENT. PROVIDE ADDITIONAL FLOOR DRAINS WITH TRAP PRIMERS OR DRAIN RECEPTORS AS REQUIRED.

PLUMBING DEVICES, FAUCETS, VALVES AND FITTINGS REQUIRED FOR SPECIALTY SERVICE EQUIPMENT (IE: KITCHEN, LAB,ETC) SHALL BE PROVIDED BY THIS CONTRACTOR UNLESS OTHERWISE SPECIFIED. THIS CONTRACTOR SHALL PROVIDE AND INSTALL PIPING, CONNECTIONS, DEVICES, VALVES AND EQUIPMENT REQUIRED FOR PROPER OPERATION. COORDINATE REQUIREMENTS.

KITCHENS, LABS AND SIMILAR SPECIALTY AREAS: ALL EXPOSED PIPING, STOPS, COCKS, AND WASTES WHICH ARE VISIBLE SHALL BE CHROME PLATED.

REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.

ALTERATION WORK AND DEMOLITION

ALL EQUIPMENT, FIXTURES, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, FIXTURES, PIPING, DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNER'S APPROVAL.

UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.

NO DEAD ENDS SHALL BE LEFT ON ANY PIPING SYSTEMS UPON COMPLETION OF WORK.

EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.

ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.

ALL EXISTING EXPOSED, UNNECESSARY PIPING RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.

RE-ROUTE OR REMOVE ALL EXISTING PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.

COORDINATION

THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS, PROJECT MANUAL AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID WHEN AVAILABLE.

ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY TO FORM A TOTAL DESIGN PACKAGE. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER TO DETERMINE WHICH TRADE CONTRACTOR IS RESPONSIBLE FOR VARIOUS PORTIONS OF THE WORK.

ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.

THE PLUMBING CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND SHALL COORDINATE WITH CIVIL ENGINEER LOCATIONS AND ELEVATIONS OF PLUMBING SERVICE LINES BEFORE PROCEEDING WITH CONSTRUCTION. THE UTILITY SERVICE LINES SHOWN ON THE DRAWINGS ARE FOR REFERENCE & BUILDING PERMIT ONLY. REFER TO CIVIL ENGINEERS DRAWINGS FOR UTILITY SERVICE LINES LAY-OUT & DETAILS.

CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, RECEPTACLES, ETC. BEFORE INSTALLATION.

THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION ARE TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
COORDINATE ALL PIPING AND CONDUITS LEAVING THE BUILDING WITH THE SITE CONTRACTOR BEFORE INSTALLATION.
LOCATION AND SIZES OF ALL FLOOR, WALL AND ROOF PENETRATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.

SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.

AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK.

-MECHANICAL SHEET METAL
-PLUMBING PIPING
-MECHANICAL PIPING
-SPRINKLER PIPING
-ELECTRICAL WORK

AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.

THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.

SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.

ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.

EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.

THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

SHOP DRAWINGS

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE APPROVED, REVISED, OR RESUBMITTED AS PER THE ENGINEERS COMMENTS, PRIOR TO CONSTRUCTION. INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

-PLUMBING FIXTURES	-CLEAN OUTS	-DRAINS
-PIPING	-PIPE SEALS	-COMPRESSORS
-FITTINGS	-BRAZING	-HANGERS/SUPPORTS
-INSULATION	-EXPANSION TANKS	-WATER HEATERS
-PUMPS	-VALVES	-THERMOSTATIC MIXING VALVES

AS BUILT DRAWINGS

PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.

PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:

INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.

MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E., TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.
EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.

APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.

SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

HOUSEKEEPING PADS

PROVIDE CONCRETE HOUSEKEEPING PADS FOR FLOOR-MOUNTED EQUIPMENT. COORDINATE EXACT LOCATIONS, DIMENSIONS, PIPING LOCATIONS, AND ANCHOR BOLT REQUIREMENTS. PROVIDE CONCRETE HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED EQUIPMENT. PADS SHALL BE CONSTRUCTED OF 3,000 PSI CONCRETE. PADS SHALL BE 4 INCHES HIGH, AND 4 INCHES WIDER THAN THE EQUIPMENT IN BOTH DIRECTIONS.

COORDINATE FLOOR DRAIN LOCATIONS WITH RESPECT TO EQUIPMENT HOUSEKEEPING PADS. PLACE DRAINS SUCH THAT EDGE OF THE FLOOR GRATE EXTENDS NO FURTHER THAN 2 INCHES FROM THE SIDE OF THE PAD.

HANGERS AND SUPPORT

SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL PLUMBING EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE AND FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.

PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT PIPING, EQUIPMENT AND TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.

PROVIDE ADDITIONAL SUPPORT FOR PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.

BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES. FOR PIPING 2-1/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE NOT TO BE USED.

PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.

BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING SHALL NOT BE PERMITTED TO SUPPORT PIPING OR EQUIPMENT.

PIPE SEALS

SEAL ALL PIPING PASSING THROUGH ALL FIRE AND/OR SMOKE RATED PARTITIONS AND WALLS WITH A UL LISTED, APPROVED AND TESTED FIRE AND/OR SMOKE SEALING MATERIAL INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

ALL PIPING PENETRATING A SLAB ON GRADE OR FOUNDATION WALL BELOW GRADE AND IN CONTACT WITH EARTH SHALL BE PROVIDED WITH A POURED IN PLACE SCHEDULE 80 GALVANIZED STEEL WATER TIGHT SLEEVE WITH INTEGRAL WATER STOP AND SEAL EQUAL TO "LINK SEAL".

FURNISH AND SET STEEL PIPE SLEEVES OF SCHEDULE 40 BLACK STEEL FOR ALL LOCATIONS OF INTERIOR PARTITIONS, WALLS AND FLOORS PROVIDING AT LEAST 1/2" CLEARANCE BETWEEN PIPE INSULATION AND SLEEVE OR PIPE AND SLEEVE. WALL SLEEVES SHALL BE SMOOTH CUT AND SET FLUSH WITH FINISHED WALLS. FLOOR SLEEVES SHALL EXTENDED 2" ABOVE THE FINISHED FLOOR.

ALL PIPING THROUGH WALLS, FLOORS OR CEILINGS SHALL HAVE SLEEVES AND ESCUTCHEONS. PROVIDE A TWO PIECE CHROME ESCUTCHEON WHERE PIPING PASSES THROUGH WALLS OR FLOORS OF FINISHED SPACES.

PLUMBING FIXTURES

PLUMBING FIXTURES SHALL BE NEW, COMPLETE WITH TRIMMINGS AND FITTINGS, INCLUDING FAUCETS, CARRIERS, SUPPLIES, STOPS, TRAPS, TAILPIECES, WASTE PLUGS, CASINGS, HANGERS, PLATES, BRACKETS, ANCHORS, SUPPORTS, HARDWARE AND FASTENING DEVICES. NOTE: ALL FIXTURES SHALL BE OF SAME MANUFACTURER. TRIMMINGS AND FITTINGS SHALL BE CONSTRUCT OF FORGED, CAST, ROLLED OR EXTRUDED BRASS OR BRONZE WITH MONEL AND OTHER SUITABLE NON-CORROSIVE PARTS: DESIGNED WITH EASILY RENEWABLE PARTS THAT ARE SUBJECT TO WEAR OR DETERIORATION. NO DIE CASTINGS AND STAMPINGS OTHER THAN BRASS OR STAINLESS STEEL. PROVIDE PLUMBING FIXTURES AND TRIM WITH ALL NECESSARY TRIM. DEVICES AND ACCESSORIES REQUIRED FOR PROPER OPERATIONS SPECIFICALLY NOTED OR NOT

ESCUTCHEONS SHALL BE ONE-PIECE CHROME PLATED CAST BRASS OR STAINLESS STEEL.

P-TRAPS SHALL BE ONE PIECE CHROME PLATED CAST BRASS WITH CLEANOUT PLUG.

EXAMINE ROUGHING-IN WORK OF POTABLE WATER AND WASTE PIPING SYSTEMS TO VERIFY ACTUAL LOCATIONS OF PIPING CONNECTIONS PRIOR TO INSTALLING FIXTURES. CORRECT ANY INCORRECT LOCATION OF PIPING, AND UNSATISFACTORY CONDITIONS FOR INSTALLATION OF PLUMBING FIXTURES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE ENGINEER. ALL ROUGH-IN TO PLUMBING FIXTURES SHALL CONFORM TO FIXTURE MANUFACTURER PUBLISHED ROUGH-IN DIMENSIONS, AND REQUIREMENTS.

UPON COMPLETION OF INSTALLATION OF PLUMBING FIXTURES AND AFTER UNITS ARE WATER PRESSURIZED, TEST FIXTURES TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS. CORRECT MALFUNCTIONING UNITS AT SITE, THEN RETEST TO DEMONSTRATE COMPLIANCE; OTHERWISE, REMOVE AND REPLACE WITH NEW UNITS AND PROCEED WITH RETESTING.

CLEAN PLUMBING FIXTURES, TRIM, AND STRAINERS OF DIRT AND DEBRIS UPON COMPLETION OF INSTALLATION.

ADJUST WATER PRESSURE AT DRINKING FOUNTAINS, FAUCETS, SHOWER VALVES, AND FLUSH VALVES TO PROVIDE PROPER FLOW STREAM AND SPECIFIED GPM.

SET FIXTURES LEVEL AND UNIFORMLY, WITH CONNECTIONS AT RIGHT ANGLES TO WALL AND PROPERLY CENTERED. LAY OUT ROUGHING ACCURATELY AND IN COORDINATION WITH SPACE AND FINISH REQUIREMENTS.

LOCATE WASTE OUTLETS AND WATER SUPPLIES AT CONSTANT HORIZONTAL LEVELS, WITH WASTE OUTLET CENTERED ON FIXTURE DRAIN CONNECTION AND WATER SUPPLIES SPACED EQUALLY TO RIGHT AND LEFT.

REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF EQUIPMENT. COLORS SHALL BE COORDINATED WITH THE ARCHITECT. CONTACT ARCHITECT FOR CLARIFICATION IF INFORMATION IS NOT CONTAINED IN THE DRAWINGS.

DRAINS AND CLEANOUTS

PROVIDE ALL POURED IN PLACE DRAINS AND CLEANOUTS WITH 24" X 24" FLASHING.

PROVIDE A MANUFACTURED BRONZE OUTLET FITTING FOR ALL SECONDARY ROOF DRAIN OUTLETS.

INSTALL EXTERIOR CLEANOUTS WITH A 18" SQUARE X 6" THICK CONCRETE APRON.

COORDINATE FLOOR DRAIN LOCATIONS WITH RESPECT TO EQUIPMENT HOUSEKEEPING PADS. PLACE DRAINS SUCH THAT EDGE OF THE FLOOR GRATE EXTENDS NO FURTHER THAN 2 INCHES FROM THE SIDE OF THE PAD. CLEANOUT PLUGS SHALL BE BRASS OR PLASTIC, OR OTHER APPROVED MATERIALS. BRASS CLEANOUT PLUGS SHALL BE UTILIZED WITH METALLIC DRAIN, WASTE AND VENT PIPING ONLY, AND SHALL CONFORM TO ASTM A 74, ASME A112.3.1 OR ASME A112.36.2M. CLEANOUTS WITH PLATE-STYLE ACCESS COVERS SHALL BE FITTED WITH CORROSION-RESISTING FASTENERS. PLUGS SHALL HAVE RAISED SQUARE OR COUNTERSUNK SQUARE HEADS, COUNTERSUNK HEADS SHALL BE INSTALLED WHERE RAISED HEADS ARE A TRIP HAZARD. CLEANOUT PLUGS WITH BOROSILICATE GLASS SYSTEMS SHALL BE OF BOROSILICATE GLASS.

PROVIDE TRAP PRIMERS FOR EACH FLOOR DRAIN. CONNECT TRAP PRIMER TO NEAREST COLD WATER MAIN. PROVIDE ISOLATION VALVE AND EXTEND TO FLOOR DRAIN AS REQUIRED.

CLEANOUTS SHALL BE LOCATED AT MINIMUM INTERVALS OF 50 FEET FOR PIPING NPS 4 AND SMALLER AND 100 FEET FOR LARGER PIPING.

BUILDING SEWERS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEANOUT. FOR BUILDING SEWERS 8 INCHES AND LARGER, MANHOLES SHALL BE PROVIDED AND LOCATED NOT MORE THAN 200 FEET FROM THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER, AT EACH CHANGE IN DIRECTION AND AT INTERVALS OF NOT MORE THAN 400 FEET APART. MANHOLES AND MANHOLE COVERS SHALL BE OF AN APPROVED TYPE.

CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION OF THE BUILDING DRAIN OR HORIZONTAL WASTE OR SOIL LINES GREATER THAN 45 DEGREES (INCLUDING P-TRAPS). WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A RUN OF PIPING, ONLY ONE CLEANOUT SHALL BE REQUIRED FOR EACH 40 FEET OF DEVELOPED LENGTH OF THE DRAINAGE PIPING.

A CLEANOUT SHALL BE PROVIDED AT THE BASE OF EACH WASTE OR SOIL STACK.

THERE SHALL BE A CLEANOUT NEAR THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER. THE CLEANOUT SHALL BE EITHER INSIDE OR OUTSIDE THE BUILDING WALL AND SHALL BE BROUGHT UP TO THE FINISHED GROUND LEVEL OR TO THE BASEMENT FLOOR LEVEL. AN APPROVED TWO-WAY CLEANOUT IS ALLOWED TO BE USED AT THIS LOCATION TO SERVE AS A REQUIRED CLEANOUT FOR BOTH THE BUILDING DRAIN AND BUILDING SEWER. THE CLEANOUT AT THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER SHALL NOT BE REQUIRED IF THE CLEANOUT ON A 3-INCH OR LARGER DIAMETER SOIL STACK IS LOCATED WITHIN A DEVELOPED LENGTH OF 10 FEET OF THE BUILDING DRAIN AND BUILDING SEWER CONNECTION.

CONCEALED PIPING. CLEANOUTS ON CONCEALED PIPING OR PIPING UNDER A FLOOR SLAB OR IN A CRAWL SPACE OF LESS THAN 24 INCHES IN HEIGHT OR A PLENUM SHALL BE EXTENDED THROUGH AND TERMINATE FLUSH WITH THE FINISHED WALL, FLOOR OR GROUND SURFACE OR SHALL BE EXTENDED TO THE OUTSIDE OF THE BUILDING. CLEANOUT PLUGS SHALL NOT BE COVERED WITH CEMENT, PLASTER OR ANY OTHER PERMANENT FINISH MATERIAL. WHERE IT IS NECESSARY TO CONCEAL A CLEANOUT OR TO TERMINATE A CLEANOUT IN AN AREA SUBJECT TO VEHICULAR TRAFFIC, THE COVERING PLATE, ACCESS DOOR OR CLEANOUT SHALL BE OF AN APPROVED TYPE DESIGNED AND INSTALLED FOR THIS PURPOSE.

MINIMUM SIZE. CLEANOUTS SHALL BE THE SAME NOMINAL SIZE AS THE PIPE THEY SERVE UP TO 4 INCHES. FOR PIPES LARGER THAN 4 INCHES NOMINAL SIZE, THE MINIMUM SIZE OF THE CLEANOUT SHALL BE 4 INCHES.

CAST-IRON CLEANOUT SIZING SHALL BE IN ACCORDANCE WITH ASTM A 74 FOR HUB AND SPIGOT FITTINGS OR ASTM A 888 OR CISPI 301 FOR HUBLESS FITTINGS.

ACCESS SHALL BE PROVIDED TO ALL CLEANOUTS.

PROVIDE CONDENSATE DRAINAGE, COMPLETE WITH CONDENSATE REMOVAL PUMP, FOR EACH COOLING COIL. CONDENSATE PUMP DISCHARGE SHALL BE CONNECTED VIA INDIRECT WASTE CONNECTION TO BUILDING SANITARY/WASTE PIPING SYSTEM. COORDINATE PUMP WIRING WITH PROJECT ELECTRICIAN. IF GRAVITY DRAINAGE IS POSSIBLE WITHIN THE CONSTRAINTS OF PIPING PITCH, CONCEALMENT ABOVE CEILINGS, AND ONLY AFTER COMPLETE COORDINATION WITH STRUCTURE AND OTHER TRADES, THE CONTRACTOR MAY SUBMIT SKETCH PROPOSALS FOR GRAVITY ROUTING FOR REVIEW/APPROVAL.

MISCELLANEOUS SPECIALTIES

ALL EQUIPMENT, VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. SUCH EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO CLEANOUTS, WATER HAMMER ARRESTORS AND VALVES. THESE SHALL BE COORDINATED WITH THE ARCHITECT. ACCESS DOORS SHALL BE RIGID CONSTRUCTION WITH TWO HINGES AND A LATCH. IN PLENUM CEILINGS, PROVIDE FELT BETWEEN THE DOOR AND FRAME TO MAKE AN AIR TIGHT SEAL. ACCESS DOORS SHALL BE RATED TO THE SAME OR GREATER RATING OF THE PARTITION IN WHICH THEY ARE INSTALLED. ACCESS DOORS SHALL BE FLUSH MOUNTED, PRIME COATED WITH RUST INHIBITIVE PAINT, CONCEALED FRAME, FLUSH SCREW DRIVER OPERATED LOCKS WITH METAL CAMS AND ANCHORS AS REQUIRED.

ACCESS DOOR SIZES SHALL BE:
12" X 12" AT EASILY ACCESSIBLE ITEMS
16" X 16" WHERE PARTIAL BODY ACCESS IS REQUIRED
24" X 24" WHERE FULL BODY ACCESS IS REQUIRED

PROVIDE AND INSTALL DRIP PANS WITH WATER DETECTOR AND DRAIN FOR PIPING REQUIRED BY ACTUAL FIELD CONDITIONS WHERE PIPING PASSES OVER INCLUDING AREA WITHIN 3'-0" OF ELECTRICAL EQUIPMENT.

DO NOT INSTALL AIR GAP BACKFLOW PREVENTERS IN CONCEALED SPACES OR IN AREAS WHERE SPLASHING WATER WILL DAMAGE FINISHES. PROVIDE AND INSTALL AN OVERSIZED COPPER FUNNEL WITH AIR GAP DIRECTLY BELOW RPD PRESSURE RELIEF PORT. PIPE FUNNEL TO SPILL AS AN INDIRECT WASTE TO AN APPROVED DRAIN LOCATION.

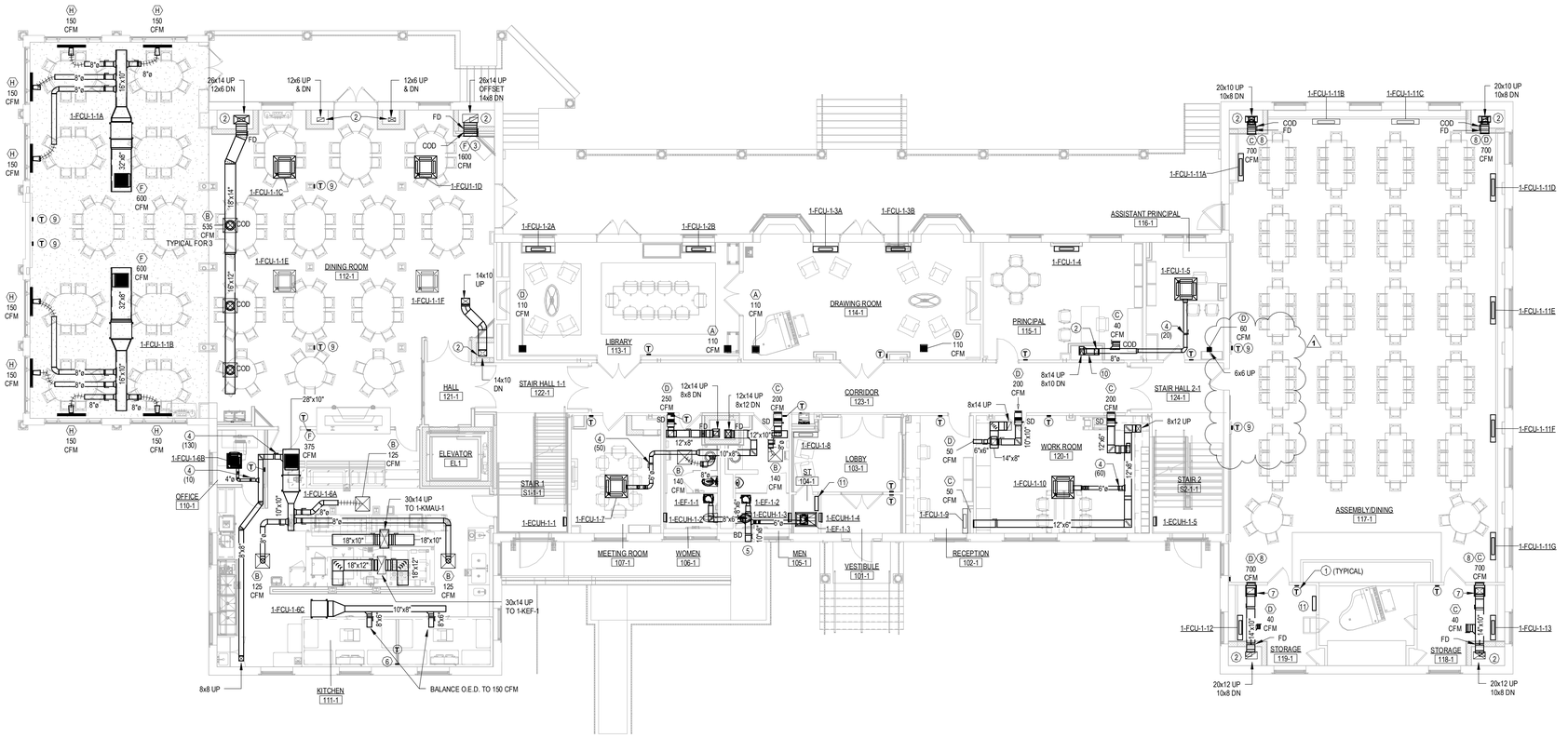
INSTALL ELECTRONIC TRAP PRIMERS SERVING ALL DRAINS. INSTALL ALL TRAP PRIMER VALVES IN AN ACCESSIBLE LOCATION. PROVIDE AND INSTALL ACCESS PANELS AND DOORS WHERE REQUIRED TO GAIN ACCESS IN CONCEALED CONSTRUCTION.

PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRES VIBRATION ISOLATION, EXCEPT WATER COILS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS POSSIBLE.

PIPING GENERAL

NO PIPING SHALL BE COVERED UNTIL TESTED APPROVED BY THE AUTHORITIES HAVING JURISDICTION.

ALL PIPING SHALL BE RUN PERPENDICULAR AND/OR PARALLEL TO FLOORS, INTERIOR WALLS, ETC. PIPING AND VALVES SHALL BE GROUPED NEATLY AND SHALL BE RUN AS TO MAXIMIZE HEADROOM OR PASSAGE CLEARANCE. ALL VALVES, CONTROLS AND ACCESSORIES CONCEALED IN FURRED SPACES AND REQUIRING ACCESS FOR OPERATION AND MAINTENANCE SHALL BE ARRANGED TO ASSURE THE USE OF A MINIMUM NUMBER OF ACCESS DOORS.



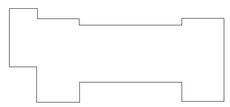
1 FIRST FLOOR DUCT PLAN
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO DRAWING M001 FOR ADDITIONAL MECHANICAL NOTES.
2. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR TO HIRE A CERTIFIED TESTING & BALANCING (TAB) CONTRACTOR TO BALANCE ALL NEW HVAC EQUIPMENT (DOAS-#, EF-#, ETC.) AND ASSOCIATED DIFFUSERS / GRILLES TO AIR FLOWS (CFM) INDICATED ON DRAWINGS. CONTRACTOR TO ALSO REFER TO SPECIFICATION SECTION 230593 "TESTING, ADJUSTING, AND BALANCING FOR HVAC" FOR ADDITIONAL REQUIREMENTS.
3. ALL NEW DUCTWORK & PIPING SHALL BE INSULATED AND LABELED. REFER TO SCHEDULES FOR INSULATION CHART. LABELS SHALL BE SETON CODE SELF-ADHESIVE DUCT MARKERS. LABELS SHALL BE LOCATED EVERY 20 FEET AND ON BOTH SIDES OF WALL PENETRATIONS.
4. SIZES ASSOCIATED WITH ACOUSTICALLY LINED DUCTWORK REPRESENTS THE INTERNAL FREE AREA DIMENSION OF THE DUTWORK REQUIRED.
5. CONTRACTOR TO PROVIDE ALL PENETRATIONS WITHIN WALLS, FLOORS, CEILINGS, ROOF, ETC AS NECESSARY TO ACCOMMODATE NEW WORK. REFER TO ALL HAZARDOUS MATERIALS ABATEMENT PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COORDINATE ALL WORK WITH THE HAZARDOUS MATERIALS ABATEMENT CONTRACTOR.
6. CONTRACTOR SHALL PROVIDE ALL CONTROL DEVICES, RELAYS, SENSORS, PANELS, TRANSFORMERS, LOW VOLTAGE WIRING, PROGRAMMABLE CONTROLLERS, PROGRAMMING, ETC. NECESSARY TO ACHIEVE THE SEQUENCE OF OPERATION IN SPECIFICATION SECTION 230993 - "SEQUENCE OF OPERATION FOR HVAC CONTROLS".
7. REFER TO PLUMBING DRAWINGS FOR CONDENSATE PIPING.
8. CONTRACTOR TO MAINTAIN EQUIPMENT MANUFACTURER'S REQUIRED SERVICE CLEARANCES.
9. REFER TO HVAC PIPING DRAWINGS FOR REFRIGERANT PIPING .
10. DUCTWORK GREATER THAN 8" DEEP MUST SPLIT INTO TWO SEPARATE DUCTS WHEN PENETRATING FLOOR IN ORDER TO FIT BETWEEN FLOOR BEAMS. REFER TO DETAIL/SCHEDULE ON DRAWING M400-1. DUCT RISERS WITHIN CMU CHASES DO NOT APPLY.

MECHANICAL NOTES

1. PROVIDE NEW COMBINATION WALL MOUNTED DDC THERMOSTAT WITH HUMIDITY. THERMOSTAT SHALL BE LABELED W/ ASSOCIATED HVAC EQUIPMENT (FCU-#) PRIOR TO OCCUPANCY.
2. PROVIDE FIRE DAMPER AT FLOOR PENETRATION AND DUCT ACCESS DOOR FOR MAINTAINENCE SERVICE. REFER TO ARCHITECTURAL DRAWING FOR WALL ACCESS DOOR REQUIREMENTS.
3. BOTTOM OF DIFFUSER / GRILLE SHALL BE LOCATED 7'-0" AFF.
4. BALANCE VENTILATION AIR DUCT TO AIR FLOW (CFM) INDICATED.
5. CONNECT NEW EXHAUST DUCTWORK TO EXISTING EXTERIOR LOUVER TO REMAIN.
6. PROVIDE NEW DDC THERMOSTAT FOR 1-FCU-6C ABOVE CEILING TO MONITOR SPACE TEMPERATURE BY THE COMPRESSORS LOCATED ON TOP OF THE COOLERS. 1-FCU-6C SHALL MAINTAIN A TEMPERATURE OF 80F IN THAT AREA. THERMOSTAT SHALL BE LABELED W/ ASSOCIATED HVAC EQUIPMENT (FCU-#) PRIOR TO OCCUPANCY.
7. PROVIDE 16L"x16"Wx16"H A.L. PLENUM.
8. BOTTOM OF DIFFUSER / GRILLE SHALL BE LOCATED 6'-0" AFF.
9. PROVIDE VANDAL RESISTANT THERMOSTAT COVERS.
10. OFFSET 8x10 DUCT WITHIN CHASE AFTER 8" TAKEOFF SERVING THE MAIN LEVEL.
11. CONTRACTOR TO PROVIDE NEW TEMPERATURE CONTROL PANEL (TCP). CONTRACTOR TO PROVIDE ALL CONTROL DEVICES, PANELS, RELAYS, SENSORS, TRANSFORMERS, LOW VOLTAGE WIRING PROGRAMMABLE CONTROLLERS, PROGRAMING, ETC. NECESSARY TO ACHIEVE THE SEQUENCE OF OPERATIONS IN SPECIFICATION SECTION 230993 SEQUENCE OF OPERATION FOR HVAC CONTROLS.



KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

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Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	WJY

Drawing Title: BUILDING 1 - MAIN LEVEL PLAN - DUCTWORK
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
Scale: 1/8" = 1'-0"
Drawn By: WJY
Project Number: 22.050

Drawing Number: M111-1

12/16/2025 9:51:17 AM

GENERAL NOTES

1. REFER TO DRAWING M001 FOR ADDITIONAL MECHANICAL NOTES.
2. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR TO HIRE A CERTIFIED TESTING & BALANCING (TAB) CONTRACTOR TO BALANCE ALL NEW HVAC EQUIPMENT (DOAS-#, EF-#, ETC.) AND ASSOCIATED DIFFUSERS / GRILLES TO AIR FLOWS (CFM) INDICATED ON DRAWINGS. CONTRACTOR TO ALSO REFER TO SPECIFICATION SECTION 230593 "TESTING, ADJUSTING, AND BALANCING FOR HVAC" FOR ADDITIONAL REQUIREMENTS.
3. ALL NEW DUCTWORK & PIPING SHALL BE INSULATED AND LABELED. REFER TO SCHEDULES FOR INSULATION CHART. LABELS SHALL BE SETON CODE SELF-ADHESIVE DUCT MARKERS. LABELS SHALL BE LOCATED EVERY 20 FEET AND ON BOTH SIDES OF WALL PENETRATIONS.
4. CONTRACTOR TO PROVIDE ALL PENETRATIONS WITHIN WALLS, FLOORS, CEILINGS, ROOF, ETC AS NECESSARY TO ACCOMMODATE NEW WORK. REFER TO ALL HAZARDOUS MATERIALS ABATEMENT PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COORDINATE ALL WORK WITH THE HAZARDOUS MATERIALS ABATEMENT CONTRACTOR.
5. CONTRACTOR SHALL PROVIDE ALL CONTROL DEVICES, RELAYS, SENSORS, PANELS, TRANSFORMERS, LOW VOLTAGE WIRING, PROGRAMMABLE CONTROLLERS, PROGRAMMING, ETC. NECESSARY TO ACHIEVE THE SEQUENCE OF OPERATION IN SPECIFICATION SECTION 230993 - "SEQUENCE OF OPERATION FOR HVAC CONTROLS".
6. SIZE AND ROUTE REFRIGERATION PIPING TO/FROM INDOOR FAN COIL UNIT (FCU-#) TO RESPECTIVE OUTDOOR UNIT (CU-#) PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
7. REFRIGERANT PIPING ROUTED UP THE BUILDING EXTERIOR WALL SHALL BE COVERED. CONTRACTOR TO PROVIDE COVER SIMILAR TO DUCTLESS AIRE HIDE-A-LINE COVER KITS.
8. REFER TO PLUMBING DRAWINGS FOR CONDENSATE PIPING.
9. CONTRACTOR TO MAINTAIN EQUIPMENT MANUFACTURER'S REQUIRED SERVICE CLEARENCES.

MECHANICAL NOTES

① PROVIDE NEW COMBINATION WALL MOUNTED DDC THERMOSTAT WITH HUMIDITY. THERMOSTAT SHALL BE LABELED W/ ASSOCIATED HVAC EQUIPMENT (FCU-#) PRIOR TO OCCUPANCY.

② REFRIGERANT PIPING DOWN.

③ REFRIGERANT PIPING UP & DOWN.

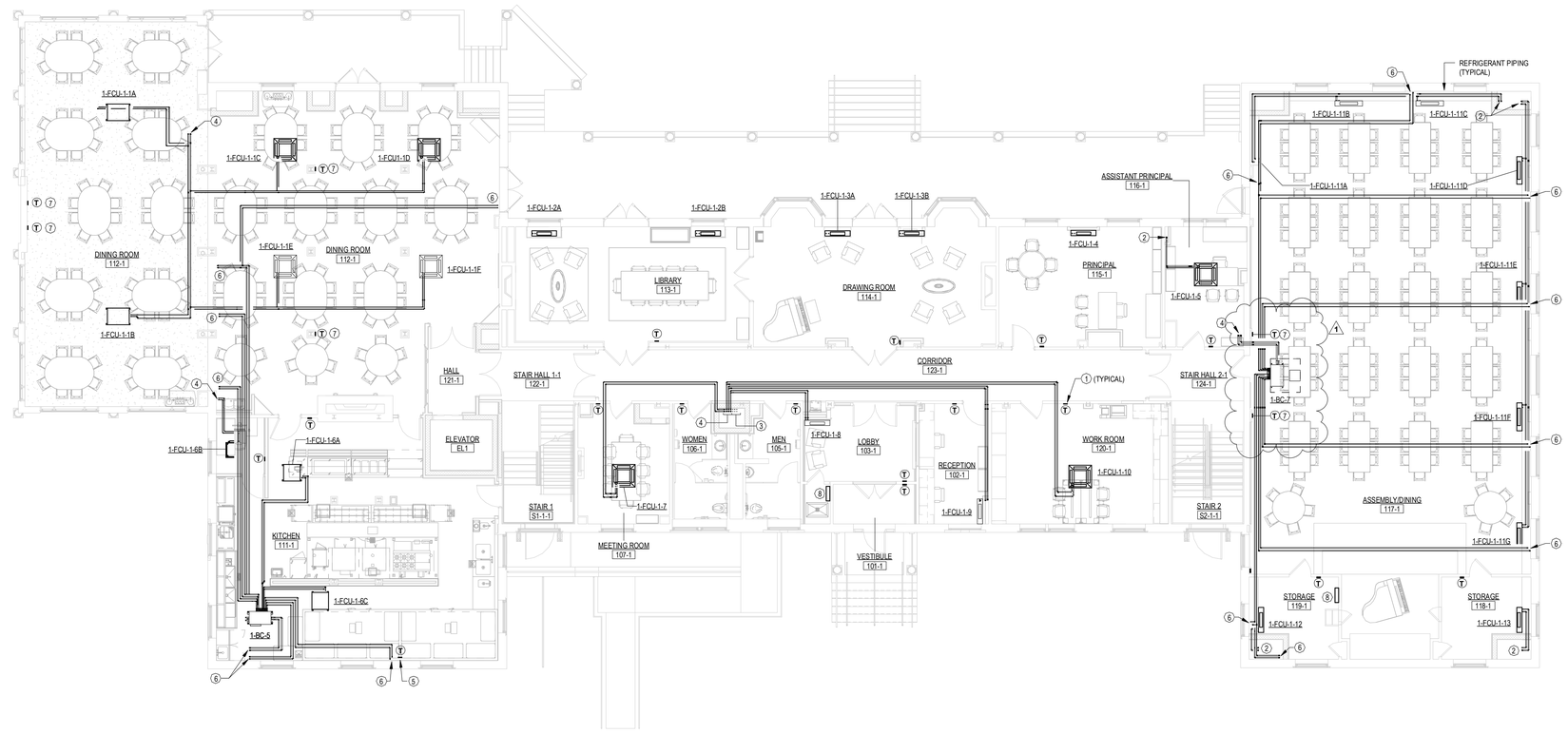
④ REFRIGERANT PIPING UP.

⑤ PROVIDE NEW DDC THERMOSTAT FOR 1-FCU-6C ABOVE CEILING TO MONITOR SPACE TEMPERATURE BY THE COMPRESSORS LOCATED ON TOP OF THE COOLERS. 1-FCU-6C SHALL MAINTAIN A TEMPERATURE OF 80F IN THAT AREA. THERMOSTAT SHALL BE LABELED W/ ASSOCIATED HVAC EQUIPMENT (FCU-#) PRIOR TO OCCUPANCY.

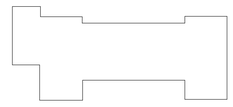
⑥ REFRIGERANT PIPING UP TO FLOOR MOUNTED FAN COIL UNIT(S) ON LEVEL 2.

⑦ PROVIDE VANDAL RESISTANT THERMOSTAT COVERS.

⑧ CONTRACTOR TO PROVIDE NEW TEMPERATURE CONTROL PANEL (TCP). CONTRACTOR TO PROVIDE ALL CONTROL DEVICES, PANELS, RELAYS, SENSORS, TRANSFORMERS, LOW VOLTAGE WIRING PROGRAMMABLE CONTROLLERS, PROGRAMING, ETC. NECESSARY TO ACHIEVE THE SEQUENCE OF OPERATIONS IN SPECIFICATION SECTION 230993 SEQUENCE OF OPERATION FOR HVAC CONTROLS.



1 FIRST FLOOR PIPING PLAN
1/8" = 1'-0"



KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	WJY

Drawing Title: BUILDING 1 - MAIN LEVEL PLAN - PIPING
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
Scale: 1/8" = 1'-0"
Drawn By: WJY
Project Number: 22.050

Drawing Number: M211-1

12/16/2025 9:55:35 AM

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

System Tag	Room Name	Tag Reference	M-NET Address	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	Corrected Capacity				Estimated Cooling Coil LAT (°F) / [LWT]	Estimated Heating Coil LAT (°F) / [LWT]	Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm) / [Design gpm G(US)/min]	Max Fan ESP Setting 208V/230V (IN WG)	Voltage / Phase	Power Cooling 208V/230V (kW)	Power Heating 208V/230V (kW)	Electrical MCA/MFS	Condensate Removal Rate (gal/hr)	Remarks
										Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Diversity Full/Partial (See Note 5, 6)	Heating Capacity (BTU/h)											
1-CU-G-4	GUIDANCE OFFICE B19-1	1-FCU-B-9	1	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	PASSAGE B20-1	1-FCU-B-10	2	TPLFYP005FM140B	Ceiling-Cassette (Four-Way)	5,000	5,600	80.0/67.0	70	PARTIAL DEMAND	5,007.6	4,386.2	FULL DEMAND	5,238.7	65.2	87.3	1/4 / 1/2	HIGH	280		208/230V/1-phase	0.02	0.02	0.24/0.24/15	0.09	See Below
1-CU-G-4	GUIDANCE OFFICE B21-1	1-FCU-B-11	3	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	STORAGE B18-1	1-FCU-B-12	4	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	GUIDANCE OFFICE B22-1	1-FCU-B-13	5	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	COPY/WORKROOM B17-1	1-FCU-B-14	6	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	ADMIN/CHECK-IN B23-1	1-FCU-B-15	7	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	WAITING B24-1	1-FCU-B-16	8	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	LOCKER ROOM B32-1	1-FCU-B-17	9	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	CONFERENCE B26-1	1-FCU-B-18	10	TPLFYP006EM142A	Ceiling-Cassette (Four-Way)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	5,090.0	FULL DEMAND	6,267.7	70.3	81.8	1/4 / 1/2	HIGH	494		208/230V/1-phase	0.02	0.02	0.24/0.19/15	0.06	See Below
1-CU-G-4	PSYCHOLOGIST OFFICE B30-1	1-FCU-B-19	11	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,012.2	5,791.5	FULL DEMAND	8,419.3	56.2	103.9	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below
1-CU-G-4	RESTORATIVE CIRCLE B29-1	1-FCU-B-20	12	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	SOCIAL WORKER OFFICE B27-1	1-FCU-B-21	13	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,012.2	5,791.5	FULL DEMAND	8,419.3	56.2	103.9	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below
1-CU-G-4	STORAGE 119-1	1-FCU-1-13	14	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	STORAGE 118-1	1-FCU-1-14	15	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	STAFF BREAK ROOM B14-1	1-FCU-B-6	16	TPKFYP008LM140B	Wall -Mounted	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,012.2	5,570.9	FULL DEMAND	8,419.3	57.8	102.9	1/4 / 1/2	HIGH	237		208/230V/1-phase	0.03	0.02	0.24/0.24/15	0.38	See Below
1-CU-G-4	INNOVATION LAB B13-1	1-FCU-B-5A	19	TPKFYP006LM140B	Wall -Mounted	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,257.7	FULL DEMAND	6,267.7	58.9	100.4	1/4 / 1/2	HIGH	191		208/230V/1-phase	0.02	0.01	0.24/0.24/15	0.26	See Below
1-CU-G-4	INNOVATION LAB B13-1	1-FCU-B-5B	20	TPKFYP006LM140B	Wall -Mounted	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,257.7	FULL DEMAND	6,267.7	58.9	100.4	1/4 / 1/2	HIGH	191		208/230V/1-phase	0.02	0.01	0.24/0.24/15	0.26	See Below
1-CU-G-4	ASSISTANT PRINCIPAL 116-1	1-FCU-1-5	17	TPLFYP006EM142A	Ceiling-Cassette (Four-Way)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	5,090.0	FULL DEMAND	6,267.7	70.3	81.8	1/4 / 1/2	HIGH	494		208/230V/1-phase	0.02	0.02	0.24/0.19/15	0.06	See Below
1-CU-G-4	PRINCIPAL 115-1	1-FCU-1-4	18	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	DRAWING ROOM 114-1	1-FCU-1-3A	21	TPFFYP006RE140A	Floor-Standing Type (Concealed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	DRAWING ROOM 114-1	1-FCU-1-3B	22	TPFFYP006RE140A	Floor-Standing Type (Concealed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	LIBRARY 113-1	1-FCU-1-2A	23	TPFFYP006RE140A	Floor-Standing Type (Concealed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-4	LIBRARY 113-1	1-FCU-1-2B	24	TPFFYP006RE140A	Floor-Standing Type (Concealed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,009.1	4,993.4	FULL DEMAND	6,267.7	59.4	95.4	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-G-3	STORAGE B01-1	1-FCU-B-4	25	PKA-AL18NL	Wall -Mounted	18,000	23,600	80.0/67.0	70	PARTIAL DEMAND	17,545.1	11,037.9	FULL DEMAND	12,290.2	56.8	95.3	1/4 / 1/2	HIGH	450		208/230V/1-phase			Powered by Outdoor	0.39	See Below
1-CU-G-1	SPEC ED RM B09-1	FCU-B-1	26	MFZ-KX09NL	Floor-Standing Type (Exposed)	9,000	12,000	80.0/67.0	70	PARTIAL DEMAND	9,365.0	8,773.3	FULL DEMAND	5,910.8	60.1	83.1	3/8 / 1/4	HIGH	417		208/230V/1-phase			Powered by Outdoor	0.04	See Below
1-CU-G-2	SPEC ED RM B10-1	FCU-B-2	27	MFZ-KX09NL	Floor-Standing Type (Exposed)	9,000	12,000	80.0/67.0	70	PARTIAL DEMAND	9,365.0	8,773.3	FULL DEMAND	5,910.8	60.1	83.1	3/8 / 1/4	HIGH	417		208/230V/1-phase			Powered by Outdoor	0.04	See Below
1-CU-LR-1	DINING ROOM 112-1	1-FCU-1-1A	1	TPEFYP018MA145A	Ceiling-Concealed (Ducted)	18,000	20,000	80.0/67.0	70	PARTIAL DEMAND	18,024.1	16,965.4	FULL DEMAND	19,865.6	61.9	90.9	1/4 / 1/2	HIGH	883	0.6/0.6	208/230V/1-phase	0.082	0.14	2.88/15	0.11	See Below
1-CU-LR-1	DINING ROOM 112-1	1-FCU-1-1B	2	TPEFYP018MA145A	Ceiling-Concealed (Ducted)	18,000	20,000	80.0/67.0	70	PARTIAL DEMAND	18,024.1	16,965.4	FULL DEMAND	19,865.6	61.9	90.9	1/4 / 1/2	HIGH	883	0.6/0.6	208/230V/1-phase	0.082	0.14	2.88/15	0.11	See Below
1-CU-LR-1	DINING ROOM 112-1	1-FCU-1-1C	3	TPLFYP015EM142A	Ceiling-Cassette (Four-Way)	15,000	17,000	80.0/67.0	70	PARTIAL DEMAND	15,020.1	11,365.1	FULL DEMAND	16,885.7	62.1	96.1	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.03	0.02	0.39/0.39/15	0.42	See Below
1-CU-LR-1	DINING ROOM 112-1	1-FCU-1-1D	4	TPLFYP015EM142A	Ceiling-Cassette (Four-Way)	15,000	17,000	80.0/67.0	70	PARTIAL DEMAND	15,020.1	11,365.1	FULL DEMAND	16,885.7	62.1	96.1	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.03	0.02	0.39/0.39/15	0.42	See Below
1-CU-LR-1	DINING ROOM 112-1	1-FCU-1-1E	5	TPLFYP015EM142A	Ceiling-Cassette (Four-Way)	15,000	17,000	80.0/67.0	70	PARTIAL DEMAND	15,020.1	11,365.1	FULL DEMAND	16,885.7	62.1	96.1	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.03	0.02	0.39/0.39/15	0.42	See Below
1-CU-LR-1	DINING ROOM 112-1	1-FCU-1-1F	6	TPLFYP015EM142A	Ceiling-Cassette (Four-Way)	15,000	17,000	80.0/67.0	70	PARTIAL DEMAND	15,020.1	11,365.1	FULL DEMAND	16,885.7	62.1	96.1	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.03	0.02	0.39/0.39/15	0.42	See Below
1-CU-G-5	ASSEMBLY/DINING 117-1	1-FCU-1-11A	7	TPFFYP012CS140A	Floor-Standing Type (Exposed)	12,000	13,500	80.0/67.0	70	PARTIAL DEMAND	12,016.1	8,083.5	FULL DEMAND	13,483.2	56.0	109.3	1/4 / 1/2	HIGH	318		208/230V/1-phase	0.067	0.067	0.34/0.38/15	0.48	See Below
1-CU-G-5	ASSEMBLY/DINING 117-1	1-FCU-1-11B	8	TPFFYP012CS140A	Floor-Standing Type (Exposed)	12,000	13,500	80.0/67.0	70	PARTIAL DEMAND	12,016.1	8,083.5	FULL DEMAND	13,483.2	56.0	109.3	1/4 / 1/2	HIGH	318		208/230V/1-phase	0.067	0.067	0.34/0.38/15	0.48	See Below
1-CU-G-5	ASSEMBLY/DINING 117-1	1-FCU-1-11C	9	TPFFYP012CS140A	Floor-Standing Type (Exposed)	12,000	13,500	80.0/67.0	70	PARTIAL DEMAND	12,016.1	8,083.5	FULL DEMAND	13,483.2	56.0	109.3	1/4 / 1/2	HIGH	318		208/230V/1-phase	0.067	0.067	0.34/0.38/15	0.48	See Below
1-CU-G-5	ASSEMBLY/DINING 117-1	1-FCU-1-11D	10	TPFFYP012CS140A	Floor-Standing Type (Exposed)	12,000	13,500	80.0/67.0	70	PARTIAL DEMAND	12,016.1	8,083.5	FULL DEMAND	13,483.2	56.0	109.3	1/4 / 1/2	HIGH	318		208/230V/1-phase	0.067	0.067	0.34/0.38/15	0.48	See Below
1-CU-G-5	ASSEMBLY/DINING 117-1	1-FCU-1-11E	11	TPFFYP012CS140A	Floor-Standing Type (Exposed)	12,000	13,500	80.0/67.0	70	PARTIAL DEMAND	12,016.1	8,083.5	FULL DEMAND	13,483.2	56.0	109.3	1/4 / 1/2	HIGH	318		208/230V/1-phase	0.067	0.067	0.34/0.38/15	0.48	See Below
1-CU-G-5	ASSEMBLY/DINING 117-1	1-FCU-1-11F	12	TPFFYP012CS140A	Floor-Standing Type (Exposed)	12,000	13,500	80.0/67.0	70	PARTIAL DEMAND	12,016.1	8,083.5	FULL DEMAND	13,483.2	56.0	109.3	1/4 / 1/2	HIGH	318		208/230V/1-phase	0.067	0.067	0.34/0.38/15	0.48	See Below
1-CU-G-5	ASSEMBLY/DINING 117-1	1-FCU-1-11G	13	TPFFYP012CS140A	Floor-Standing Type (Exposed)	12,000	13,500	80.0/67.0	70	PARTIAL DEMAND	12,016.1	8,083.5	FULL DEMAND	13,483.2	56.0	109.3	1/4 / 1/2	HIGH	318		208/230V/1-phase	0.067	0.067	0.34/0.38/15	0.48	See Below
1-CU-R-2	MEETING ROOM 107-1	1-FCU-1-7	14	TPLFYP008EM142A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	6,452.3	FULL DEMAND	8,989.3	69.8	83.9	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.03	0.02	0.39/0.39/15	0.19	See Below
1-CU-R-2	LOBBY 103-1	1-FCU-1-8	15	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,008.0	4,993.0	FULL DEMAND	6,692.0	59.4	97.1	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-R-2	RECEPTION 102	1-FCU-1-9	16	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,008.0	4,993.0	FULL DEMAND	6,692.0	59.4	97.1	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-R-2	WORK ROOM 120-1	1-FCU-1-10	17	TPLFYP008EM142A	Ceiling-Cassette (Four-Way)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	6,452.3	FULL DEMAND	8,989.3	69.8	83.9	1/4 / 1/2	HIGH	600		208/230V/1-phase	0.03	0.02	0.39/0.39/15	0.19	See Below
1-CU-R-2	CORRIDOR C B42-1	1-FCU-B-3	18	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	5,790.9	FULL DEMAND	8,989.3	56.2	106.2	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below
1-CU-R-2	CAREER CENTER B34-1	1-FCU-B-7A	19	TPKFYP006LM140B	Wall -Mounted	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,008.0	4,257.2	FULL DEMAND	6,692.0	58.9	102.5	1/4 / 1/2	HIGH	191		208/230V/1-phase	0.02	0.01	0.24/0.24/15	0.26	See Below
1-CU-R-2	CAREER CENTER B34-1	1-FCU-B-7B	20	TPKFYP006LM140B	Wall -Mounted	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,008.0	4,257.2	FULL DEMAND	6,692.0	58.9	102.5	1/4 / 1/2	HIGH	191		208/230V/1-phase	0.02	0.01	0.24/0.24/15	0.26	See Below
1-CU-R-2	SPEECH OFFICE B33-1	1-FCU-B-8	21	TPKFYP006LM140B	Wall -Mounted	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,008.0	4,257.2	FULL DEMAND	6,692.0	58.9	102.5	1/4 / 1/2	HIGH	191		208/230V/1-phase	0.02	0.01	0.24/0.24/15	0.26	See Below
1-CU-LR-2	KITCHEN OFFICE 110-1	1-FCU-6B	22	SLZ-AF09NL	Ceiling-Cassette (Four-Way)	9,000	14,600	80.0/67.0	70	PARTIAL DEMAND	9,547.6	8,127.1	FULL DEMAND	10,433.4	54.4	102.2	3/8 / 1/4	HIGH	300		208/230V/1-phase	0.02	0.02	Powered by Outdoor	0.13	See Below
1-CU-R-1	KITCHEN 111-1	1-FCU-1-6a	1	TPEFYP024MA144A	Ceiling-Concealed (Ducted)	24,000	27,000	80.0/67.0	70	PARTIAL DEMAND	24,032.1	19,226.1	FULL DEMAND	23,474.5	59.4	94.6	3/8 / 5/8	HIGH	883	0.6/0.6	208/230V/1-phase	0.142	0.14	2.88/15	0.82	See Below
1-CU-R-1	KITCHEN 111-1	1-FCU-1-6c	2	TPEFYP008MA144A	Ceiling-Concealed (Ducted)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	6,432.4	FULL DEMAND	7,824.8	59.7	94.2	1/4 / 1/2	HIGH	300	0.6/0.6	208/230V/1-phase	0.042	0.04	1.75/15	0.28	See Below
1-CU-R-1	READING INTERVENTION 201-1	1-FCU-2-5A	3	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	5,790.9	FULL DEMAND	7,824.8	56.2	101.5	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below
1-CU-R-1	READING INTERVENTION 201-1	1-FCU-2-5B	4	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	5,790.9	FULL DEMAND	7,824.8	56.2	101.5	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below
1-CU-R-1	SOCIAL STUDIES CLASSOOM 202-1	1-FCU-2-4A	5	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	5,790.9	FULL DEMAND	7,824.8	56.2	101.5	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below
1-CU-R-1	SOCIAL STUDIES CLASSOOM 202-1	1-FCU-2-4B	6	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	5,790.9	FULL DEMAND	7,824.8	56.2	101.5	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below
1-CU-R-1	SOCIAL STUDIES CLASSOOM 202-1	1-FCU-2-4C	7	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	5,790.9	FULL DEMAND	7,824.8	56.2	101.5	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below
1-CU-R-1	LOCKERS 203-1	1-FCU-2-3	8	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,008.0	4,993.0	FULL DEMAND	5,825.1	59.4	93.6	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-R-1	PREP ROOM 204-1	1-FCU-2-2	9	TPFFYP006CS140A	Floor-Standing Type (Exposed)	6,000	6,700	80.0/67.0	70	PARTIAL DEMAND	6,008.0	4,993.0	FULL DEMAND	5,825.1	59.4	93.6	1/4 / 1/2	HIGH	229		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.11	See Below
1-CU-R-1	SCIENCE CLASSROOM 205-1	1-FCU-2-1A	10	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	5,790.9	FULL DEMAND	7,824.8	56.2	101.5	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below
1-CU-R-1	SCIENCE CLASSROOM 205-1	1-FCU-2-1B	11	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	5,790.9	FULL DEMAND	7,824.8	56.2	101.5	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below
1-CU-R-1	SCIENCE CLASSROOM 205-1	1-FCU-2-1C	12	TPFFYP008CS140A	Floor-Standing Type (Exposed)	8,000	9,000	80.0/67.0	70	PARTIAL DEMAND	8,010.7	5,790.9	FULL DEMAND	7,824.8	56.2	101.5	1/4 / 1/2	HIGH	230		208/230V/1-phase	0.061	0.061	0.32/0.34/15	0.27	See Below

REMARKS:

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
3. SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES
4. SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES.
5. FULL DEMAND CORRECTED CAPACITY INCLUDES DE-RATE ASSOCIATED WITH INDOOR VS. OUTDOOR CONNECTED CAPACITY INDICATED ON OUTDOOR UNIT SCHEDULE FOR ASSOCIATED SYSTEM. PARTIAL CORRECTED CAPACITY ASSUMES SUFFICIENT DIVERSITY EXISTS SUCH THAT THE CONNECTED CAPACITY DE-RATE DOES NOT APPLY. IT IS THE DESIGNER'S RESPONSIBILITY TO ENSURE "DIAMOND SYSTEM BUILDER" IS SET IN THE APPROPRIATE OUTPUT CAPACITY SETTING (FULL DEMAND/PARTIAL DEMAND) PRIOR TO GENERATING THIS SCHEDULE.
6. IT IS RECOMMENDED TO ALWAYS BASE HEATING CORRECTED CAPACITY ON FULL DEMAND.
7. UNITS LESS THAN 65 MBH SHALL UTILIZE R-454B REFRIGERANT. R-22 AND R-410A REFRIGERANT IS NOT ACCEPTABLE.
8. UNITS 65 MBH AND GREATER SHALL UTILIZE R-410A OR R-32 REFRIGERANT. R-22 REFRIGERANT IS NOT ACCEPTABLE.
9. AILL INDOOR UNITS SHALL HAVE FACTORY MOUNTED REFRIGERANT SENSORS.
10. UNITS SHALL BE EQUIPPED WITH INTEGRAL CONDENSATE LIFT MECHANISMS AND SENSORS.
11. REFER TO OUTDOOR UNIT, BRANCH CIRCUIT CONTROLLER ON SCHEDULES FOR ADDITIONAL INFORMATION ASSOCIATED WITH THE VRF SYSTEM.
12. PROVIDE CEILING TRIM PANEL PLFY-ITP1 TO FIT WITHIN ARCHITECTURAL LAY-IN CEILINGS.
13. PROVIDE MULTI-FUNCTIONAL CASEMENT MS PAC-SJ417TM-E ON CEILING CASSETTE UNITS REQUIRING MORE THAN 50 CFM OF OUTSIDE AIR.
14. PROVIDE AND INTERNALLY INSTALL IN FIELD X87-721 BLUE DIAMOND MAXIBLUE CONDENSATE PUMP WITH A DPLS DRAIN PAN LEVEL SENSOR. PUMP SHALL BE HARD WIRED TO INDOOR UNIT. FOR UNITS: 1-FCU-B-1, 1-FCU-B-2, 1-FCU-B-4, 1-FCU-B-7A, 1-FCU-B-7B &, 1-FCU-B-8.
15. EQUIPMENT MUST BE PURCHASED FROM A COMMERCIAL SALES OFFICE THAT OFFERS FULL SALES, TECHNICAL SUPPORT AND HAS FULL SERVICE OPERATION WITH A MINIMUM OF (10) SERVICE TRUCKS. THE COMMERCIAL SALES OFFICE SHALL HAVE ACCESS TO ELECTRONIC SALES, SERVICE AND TECHNICAL SOFTWARE FOR COMPLETE SUBMITTAL PACKAGES AND AFTER-MARKET SUPPORT.
16. PROVIDE CONTROL AND MONITORING CAPABILITY THROUGH A BUILDING MANAGEMENT SYSTEM. PROVIDE FACTORY MOUNTED BACNET DDC UNIT CONTROLLER.
17. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

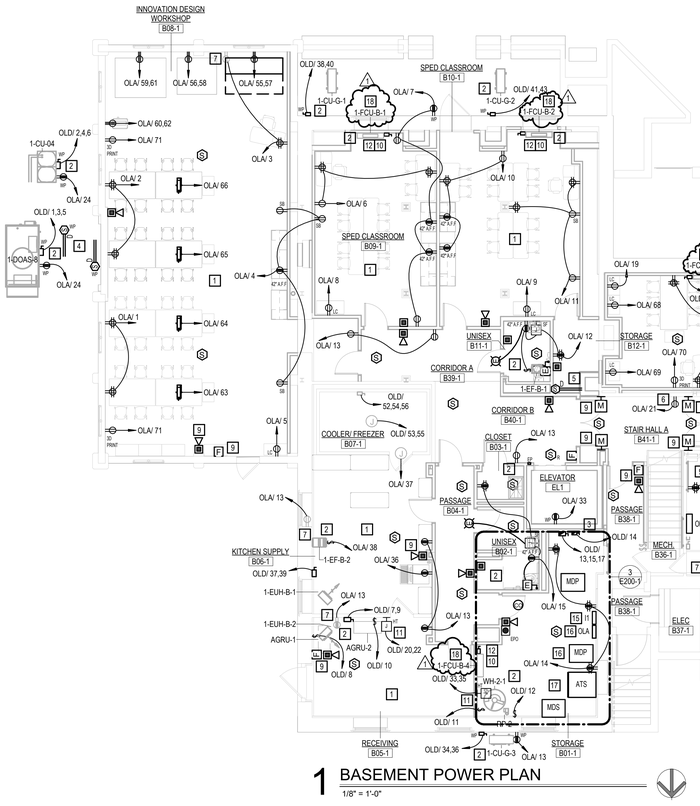
SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STRE

GENERAL POWER NOTES

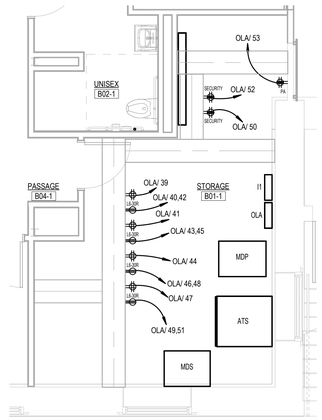
1. REFER TO DRAWING E001-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. ALL NEW RECEPTACLES SHALL BE TAMPER-PROOF TYPE PER NEC 406.12 UNLESS LOCATED MORE THAN 5'-6" ABOVE THE FLOOR OR SERVE A DEDICATED PIECE OF EQUIPMENT THAT CAN NOT BE EASLY MOVED TO EXPOSE THE PLUG.
3. ALL DEVICES (RECEPTACLES, FIRE ALARM, CALL FOR AID, ETC.), AND ELECTRICAL EQUIPMENT (PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHOWN DARK AND SOLID ARE TO BE NEW UNLESS OTHERWISE NOTED. ALL DEVICES AND EQUIPMENT SHOWN HALF TONE (LIGHT) AND SOLID ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

POWER KEY NOTES

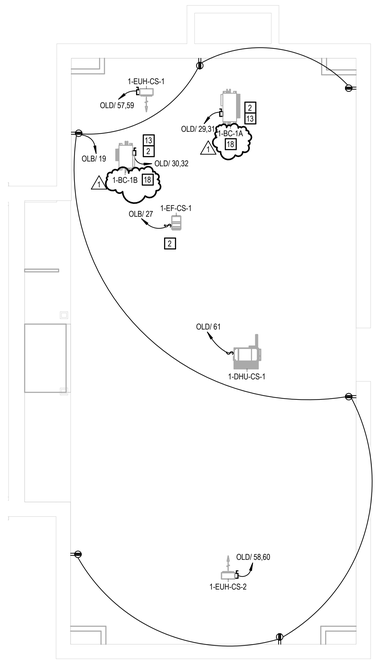
1. ALL DEVICES WHICH ARE MOUNTED ON EXISTING WALLS SHALL BE SURFACE MOUNTED DEVICES. THE RACEWAY SERVING THESE SPACES SHALL BE WIREMOLD PAINTED TO MATCH THE WALL. THE RACEWAY SHALL COME FROM THE CEILING & CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. EXPOSED CONDUIT IN FINISHED SPACES IS NOT ACCEPTABLE. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.
2. EQUIPMENT SHOWN IS CONTROLLED VIA THE BUILDING MANAGEMENT SYSTEM. PROVIDE ALL NECESSARY WIRING BETWEEN THE CONTROLLER, EQUIPMENT, RELAYS, ETC. COORDINATE LOCATION OF POWER FOR EQUIPMENT SHOWN W/ASSOCIATED CONTRACTORS OF OTHER DISCIPLINES.
3. PROVIDE & INSTALL NEMA 1, 60A, 208V, 3 PHASE, SHUNT-TRIP FUSIBLE DISCONNECT SWITCH WITH AUXILIARY CONTACTS TO BE WIRED TO ELEVATOR BATTERY BACKUP. DISCONNECT SWITCH SHALL CONTAIN 40A FUSES. PROVIDE & INSTALL NEMA 1, 30A, 120V, SINGLE PHASE, FUSED DISCONNECT SWITCH W/20A FUSE FOR CAB LIGHTING/POWER.
4. DUCT SMOKE DETECTORS FOR RTU'S. PROVIDE & INSTALL 1 FOR SUPPLY & 1 FOR RETURN. DETECTOR SHALL BE COMPATIBLE W/FACP. COORDINATE EXACT LOCATIONS IN FIELD.
5. POWER TO DAMPER SHALL COME FROM NEARBY AREA RECEPTACLE CIRCUIT. PROVIDE DUCT SMOKE & FIRE ALARM RELAY. WIRING OF DAMPER SHALL CLOSE ON DETECTION OF SMOKE & DETECTORS/RELAYS SHALL BE WIRED TO FIRE ALARM SYSTEM. COORDINATE W/CONTRACTOR.
6. INSTALL NEW SURFACE MOUNTED BOX EXTENSION W/RECEPTACLE TO EXISTING BACK BOX OF RECEPTACLE WHICH WAS REMOVED. INSTALL WIREMOLD TO INTERCONNECT THE DEVICES ON THE CIRCUIT SHOWN. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.
7. EXISTING SURFACE MOUNTED RECEPTACLE. INSTALL WIREMOLD FROM DEVICE TO ACCESSIBLE CEILING SPACE IF POSSIBLE, OR TO NEXT DEVICE/FIXTURE IN THE CIRCUIT AS SHOWN. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.
8. INSTALL NEW SURFACE MOUNTED BOX EXTENSION W/FIRE ALARM DEVICE TO EXISTING BACK BOX OF FIRE ALARM DEVICE WHICH WAS REMOVED. INSTALL WIREMOLD TO ACCESSIBLE CEILING SPACE TO INTERCONNECT DEVICE TO FIRE ALARM LOOP FOR THE AREA.
9. INSTALL NEW SURFACE MOUNTED FIRE ALARM DEVICE IN SAME LOCATION AS DEVICE WHICH WAS REMOVED. REUSE EXISTING RACEWAY TO FISH WIRES TO DEVICE FROM NEARBY FIRE ALARM LOOP. EXTEND RACEWAY AS NECESSARY TO REACH ACCESSIBLE CEILING SPACE.
10. INDOOR UNIT SHOWN IS POWERED BY THE OUTDOOR CONDENSING UNIT. WIRE UNIT TO THE ASSOCIATED CONDENSING UNIT. REFER TO MANUFACTURERS INSTRUCTIONS FOR INSTALLATION.
11. POWER FOR HEAT TRACE FOR FREEZER/COOLER CONDENSATE LINE. COORDINATE LOCATION OF CONTROLLER W/PLUMBING CONTRACTOR. CIRCUIT BREAKER SERVING HEAT TRACE SHALL BE GFCI.
12. FAN COIL UNITS SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.
13. VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.
14. PROPOSED CONDUIT PATH FOR FLOOR BOX. FLOOR MUST BE TRENCHED TO LOCATIONS SHOWN, COORDINATE W/ARCHITECTURAL DRAWINGS. ALL PATHWAYS MUST BE CONCEALED.
15. FURNISH AND INSTALL ELECTRICAL LIGHTING INVERTER PANEL. REFER TO ONE-LINE DIAGRAM DRAWING E300-1 AND PANEL SCHEDULE ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.
16. FURNISH AND INSTALL ELECTRICAL PANEL. REFER TO ONE-LINE DIAGRAM DRAWING E300-1 AND PANEL SCHEDULE ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.
17. FURNISH AND INSTALL ELECTRICAL EQUIPMENT. REFER TO ONE-LINE DIAGRAM DRAWING E300-1 FOR NEW WORK REQUIREMENTS.
18. CONDENSATE PUMP FOR BCC'S & WALL MOUNTED FCU'S NEED WIRING/POWER PROVIDED TO THEM. CONDENSATE PUMP POWER SHALL COME FROM THE UNIT IT IS SERVING. DISCONNECT SWITCH WIRING SHALL BE CONNECTED TO THE UNIT SAFETY CONNECTORS. WIRING SHALL BE FIELD SUPPLIED & SHALL BE IN ACCORDANCE W/MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.



1 BASEMENT POWER PLAN
1/8" = 1'-0"



3 MER B01.1 PART PLAN
1/4" = 1'-0"



2 CRAWL SPACE POWER PLAN
1/8" = 1'-0"

KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 1 - BASEMENT LEVEL POWER PLAN
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
Scale: As indicated
Drawn By: MTC
Project Number: 22.050

Drawing Number: E200-1

12/16/2025 10:11:18 AM

GENERAL POWER NOTES

1 REFER TO DRAWING E001-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.

2 ALL NEW RECEPTACLES SHALL BE TAMPER-PROOF TYPE PER NEC 406.12 UNLESS LOCATED MORE THAN 5'-6" ABOVE THE FLOOR OR SERVE A DEDICATED PIECE OF EQUIPMENT THAT CAN NOT BE EASLY MOVED TO EXPOSE THE PLUG.

3 ALL DEVICES (RECEPTACLES, FIRE ALARM, CALL FOR AID, ETC.), AND ELECTRICAL EQUIPMENT (PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHOWN DARK AND SOLID ARE TO BE NEW UNLESS OTHERWISE NOTED. ALL DEVICES AND EQUIPMENT SHOWN HALF TONE (LIGHT) AND SOLID ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

POWER KEY NOTES

1 ALL NEW DEVICES WHICH ARE MOUNTED ON EXISTING WALLS SHALL BE SURFACE MOUNTED DEVICES. THE RACEWAY SERVING THESE SPACES SHALL BE WIREMOLD PAINTED TO MATCH THE WALL. THE RACEWAY SHALL COME FROM THE CEILING & CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. EXPOSED CONDUIT IN FINISHED SPACES IS NOT ACCEPTABLE. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

2 EQUIPMENT SHOWN IS CONTROLLED VIA THE BUILDING MANAGEMENT SYSTEM. PROVIDE ALL NECESSARY WIRING BETWEEN THE CONTROLLER, EQUIPMENT, RELAYS, ETC. COORDINATE LOCATION OF POWER FOR EQUIPMENT SHOWN W/ASSOCIATED CONTRACTORS OF OTHER DISCIPLINES.

3 ALL EQUIPMENT & CIRCUITS IN KITCHEN ARE TO BE GFCI PROTECTED. IF THEY ARE NOT PROTECTED BY A GFCI RECEPTACLE THEY MUST BE PROTECTED BY A GFCI CIRCUIT BREAKER.

4 POWER TO DAMPER SHALL COME FROM NEARBY AREA RECEPTACLE CIRCUIT. PROVIDE DUCT SMOKE & FIRE ALARM RELAY. WIRING OF DAMPER SHALL CLOSE ON DETECTION OF SMOKE & DETECTORS/RELAYS SHALL BE WIRED TO FIRE ALARM SYSTEM. COORDINATE W/CONTRACTOR.

5 INSTALL NEW SURFACE MOUNTED BOX EXTENSION W/RECEPTACLE TO EXISTING BACK BOX OF RECEPTACLE WHICH WAS REMOVED. INSTALL WIREMOLD TO INTERCONNECT THE DEVICES ON THE CIRCUIT SHOWN. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

6 EXISTING SURFACE MOUNTED RECEPTACLE. INSTALL WIREMOLD FROM DEVICE TO ACCESSIBLE CEILING SPACE IF POSSIBLE, OR TO NEXT DEVICE/FIXTURE IN THE CIRCUIT AS SHOWN. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

7 INSTALL NEW SURFACE MOUNTED BOX EXTENSION W/FIRE ALARM DEVICE TO EXISTING BACK BOX OF FIRE ALARM DEVICE WHICH WAS REMOVED. INSTALL WIREMOLD TO ACCESSIBLE CEILING SPACE TO INTERCONNECT DEVICE TO FIRE ALARM LOOP FOR THE AREA.

8 INSTALL NEW SURFACE MOUNTED FIRE ALARM DEVICE IN SAME LOCATION AS DEVICE WHICH WAS REMOVED. REUSE EXISTING RACEWAY TO FISH WIRES TO DEVICE FROM NEARBY FIRE ALARM LOOP. EXTEND RACEWAY AS NECESSARY TO REACH ACCESSIBLE CEILING SPACE.

9 FISH WIRE TO EXISTING RECEPTACLES IN AREAS SHOWN. WIRE RECEPTACLES TO CIRCUITS AS SHOWN.

10 INDOOR UNIT SHOWN IS POWERED BY THE OUTDOOR CONDENSING UNIT. WIRE UNIT TO THE ASSOCIATED CONDENSING UNIT. REFER TO MANUFACTURERS INSTRUCTIONS FOR INSTALLATION.

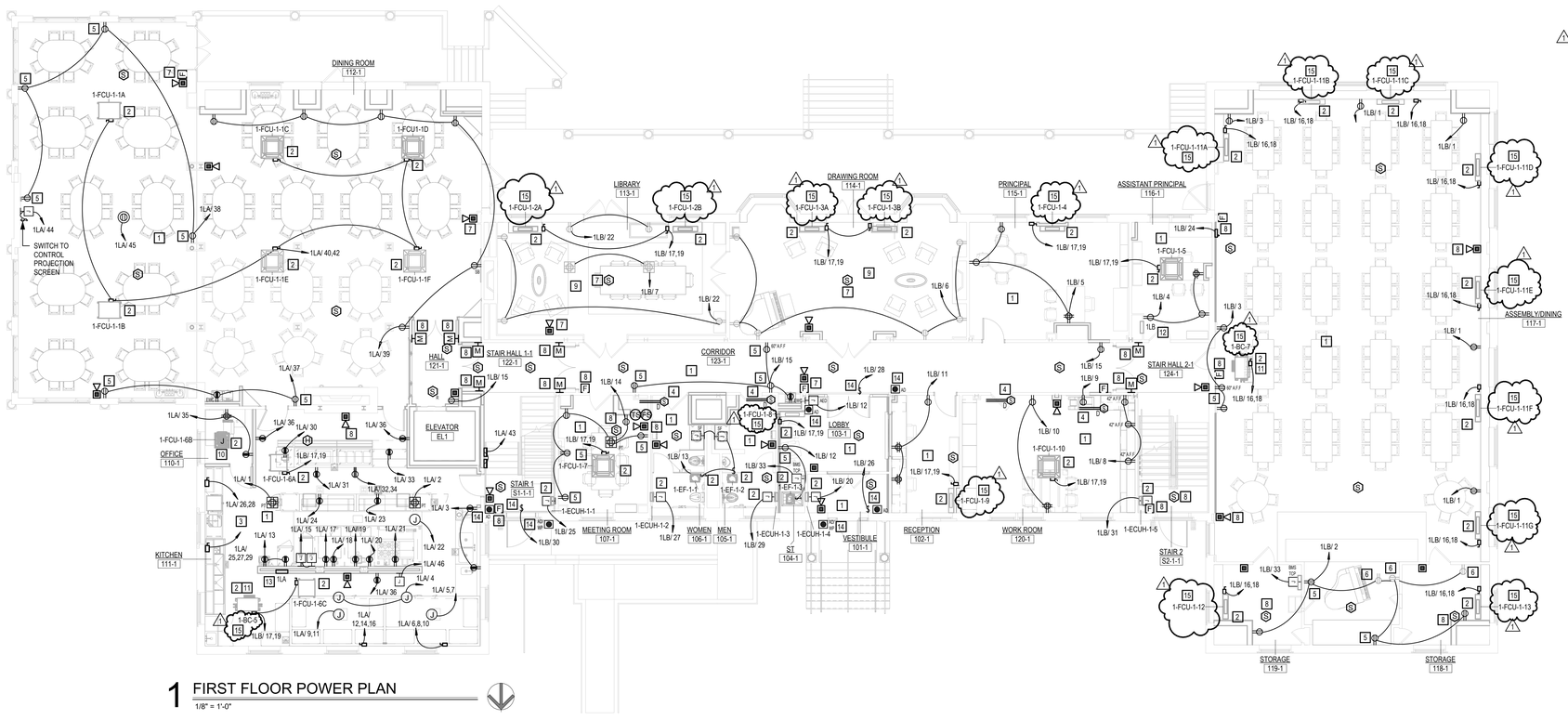
11 VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.

12 EXISTING ELECTRICAL PANEL. REFER TO ONE-LINE DIAGRAM DRAWING E300-1 AND PANEL SCHEDULE ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.

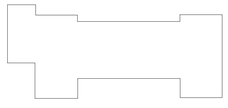
13 FURNISH AND INSTALL ELECTRICAL PANEL. REFER TO ONE-LINE DIAGRAM DRAWING E300-1 AND PANEL SCHEDULE ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.

14 INSTALL NEW POWERED DOOR OPENERS AT THE DOOR SHOWN. INSTALL A TOGGLE DISCONNECT SWITCH AT THE MOTOR. INSTALL PUSH PLATE DOOR OPERATORS AT THE LOCATIONS SHOWN, COORDINATE W/ARCHITECT FOR EXACT LOCATIONS. PROVIDE ALL WIRING, CONDUIT, EQUIPMENT NECESSARY FOR A COMPLETE & WORKING INSTALLATION. ANY DEVICES WHICH ARE MOUNTED ON AN EXISTING WALL OR MULLION SHALL HAVE WIREMOLD PAINTED THE SAME COLOR AS THE WALL OR MULLION IT IS INSTALLED ON. POWER FOR CIRCUIT IS ASSUMED FOR A 1/2 HP MOTOR. IF THE MOTOR IS LARGER THE CIRCUIT BREAKER SERVING IT WILL NEED TO BE INCREASED, AS WELL AS THE WIRE SIZE.

16 CONDENSATE PUMP FOR BCC'S & WALL MOUNTED FCU'S NEED WIRING/POWER PROVIDED TO THEM. CONDENSATE PUMP POWER SHALL COME FROM THE UNIT IT IS SERVING. DISCONNECT SWITCH WIRING SHALL BE CONNECTED TO THE UNIT SAFETY CONNECTORS. WIRING SHALL BE FIELD SUPPLIED & SHALL BE IN ACCORDANCE W/MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.



1 FIRST FLOOR POWER PLAN
1/8" = 1'-0"



KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 1 - MAIN LEVEL POWER PLAN
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
Scale: As indicated
Drawn By: MTC
Project Number: 22.050

Drawing Number: E210-1

12/16/2025 10:11:26 AM

GENERAL POWER NOTES

1 REFER TO DRAWING E001-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.

2 ALL NEW RECEPTACLES SHALL BE TAMPER-PROOF TYPE PER NEC 406.12 UNLESS LOCATED MORE THAN 5'-6" ABOVE THE FLOOR OR SERVE A DEDICATED PIECE OF EQUIPMENT THAT CAN NOT BE EASLY MOVED TO EXPOSE THE PLUG.

3 ALL DEVICES (RECEPTACLES, FIRE ALARM, CALL FOR AID, ETC.), AND ELECTRICAL EQUIPMENT (PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHOWN DARK AND SOLID ARE TO BE NEW UNLESS OTHERWISE NOTED. ALL DEVICES AND EQUIPMENT SHOWN HALF TONE (LIGHT) AND SOLID ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

POWER KEY NOTES

1 ALL DEVICES WHICH ARE MOUNTED ON EXISTING WALLS SHALL BE SURFACE MOUNTED DEVICES. THE RACEWAY SERVING THESE SPACES SHALL BE WIREMOLD PAINTED TO MATCH THE WALL. THE RACEWAY SHALL COME FROM THE CEILING & CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. EXPOSED CONDUIT IN FINISHED SPACES IS NOT ACCEPTABLE. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

2 EQUIPMENT SHOWN IS CONTROLLED VIA THE BUILDING MANAGEMENT SYSTEM. PROVIDE ALL NECESSARY WIRING BETWEEN THE CONTROLLER, EQUIPMENT, RELAYS, ETC. COORDINATE LOCATION OF POWER FOR EQUIPMENT SHOWN W/ASSOCIATED CONTRACTORS OF OTHER DISCIPLINES.

3 POWER TO DAMPER SHALL COME FROM NEARBY AREA RECEPTACLE CIRCUIT. PROVIDE DUCT SMOKE & FIRE ALARM RELAY. WIRING OF DAMPER SHALL CLOSE ON DETECTION OF SMOKE & DETECTORS/RELAYS SHALL BE WIRED TO FIRE ALARM SYSTEM. COORDINATE W/CONTRACTOR.

4 INSTALL NEW SURFACE MOUNTED BOX EXTENSION W/RECEPTACLE TO EXISTING BACK BOX OF RECEPTACLE WHICH WAS REMOVED. INSTALL WIREMOLD TO INTERCONNECT THE DEVICES ON THE CIRCUIT SHOWN. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

5 EXISTING SURFACE MOUNTED RECEPTACLE. INSTALL WIREMOLD FROM DEVICE TO ACCESSIBLE CEILING SPACE IF POSSIBLE, OR TO NEXT DEVICE/FIXTURE IN THE CIRCUIT AS SHOWN. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

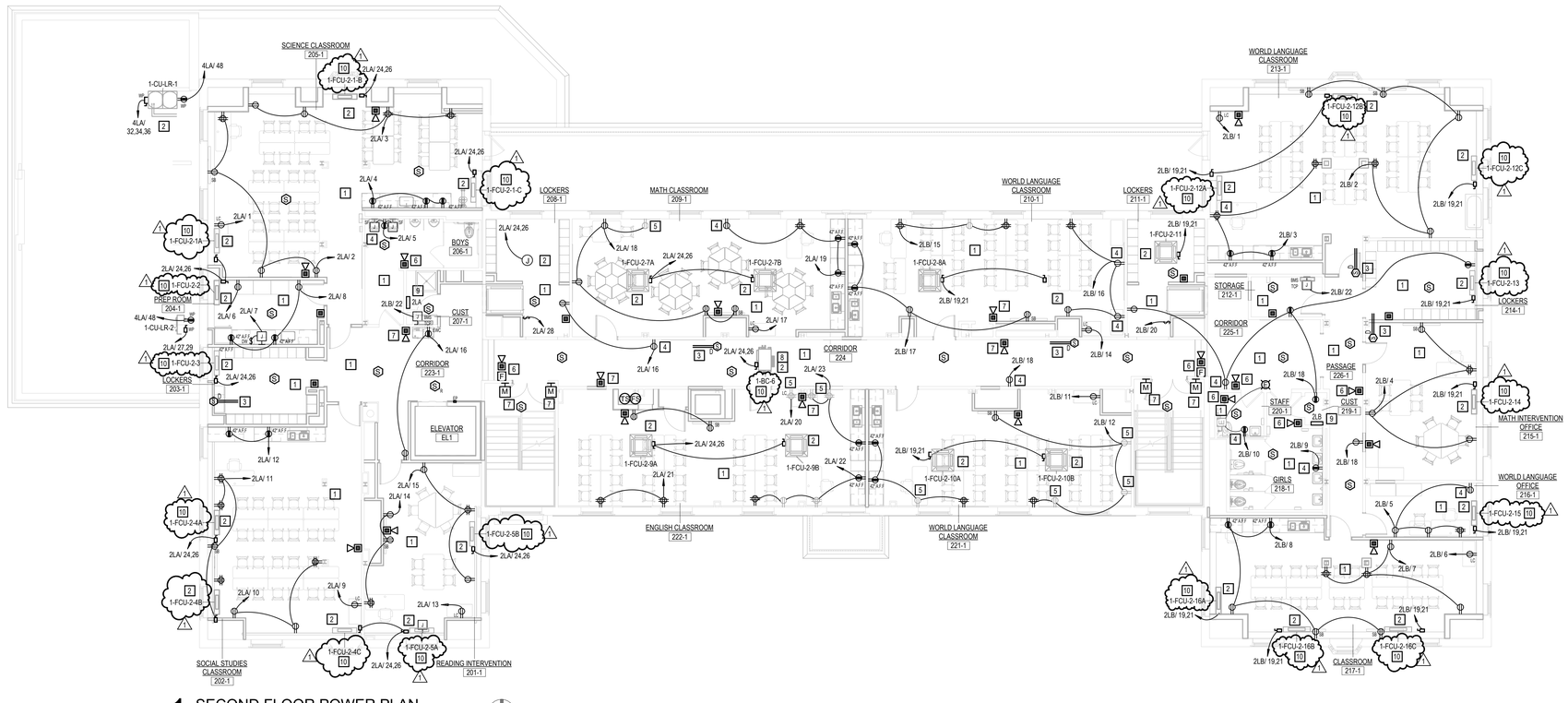
6 INSTALL NEW SURFACE MOUNTED BOX EXTENSION W/FIRE ALARM DEVICE TO EXISTING BACK BOX OF FIRE ALARM DEVICE WHICH WAS REMOVED. INSTALL WIREMOLD TO ACCESSIBLE CEILING SPACE TO INTERCONNECT DEVICE TO FIRE ALARM LOOP FOR THE AREA.

7 INSTALL NEW SURFACE MOUNTED FIRE ALARM DEVICE IN SAME LOCATION AS DEVICE WHICH WAS REMOVED. REUSE EXISTING RACEWAY TO FISH WIRES TO DEVICE FROM NEARBY FIRE ALARM LOOP. EXTEND RACEWAY AS NECESSARY TO REACH ACCESSIBLE CEILING SPACE.

8 VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.

9 FURNISH AND INSTALL ELECTRICAL PANEL. REFER TO ONE-LINE DIAGRAM DRAWING E300-1 AND PANEL SCHEDULE ON ES00 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.

10 CONDENSATE PUMP FOR BCC'S & WALL MOUNTED FCU'S NEED WIRING/POWER PROVIDED TO THEM. CONDENSATE PUMP POWER SHALL COME FROM THE UNIT IT IS SERVING. DISCONNECT SWITCH WIRING SHALL BE CONNECTED TO THE UNIT SAFETY CONNECTORS. WIRING SHALL BE FIELD SUPPLIED & SHALL BE IN ACCORDANCE W/MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.



1 SECOND FLOOR POWER PLAN
1/8" = 1'-0"

KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 1 - SECOND LEVEL POWER PLAN
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
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Drawn By: MTC
Project Number: 22.050

Drawing Number: E220-1

12/16/2025 10:11:49 AM

GENERAL POWER NOTES

1 REFER TO DRAWING E001-1 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.

2 ALL NEW RECEPTACLES SHALL BE TAMPER-PROOF TYPE PER NEC 406.12 UNLESS LOCATED MORE THAN 5'-6" ABOVE THE FLOOR OR SERVE A DEDICATED PIECE OF EQUIPMENT THAT CAN NOT BE EASLY MOVED TO EXPOSE THE PLUG.

3 ALL DEVICES (RECEPTACLES, FIRE ALARM, CALL FOR AID, ETC.), AND ELECTRICAL EQUIPMENT (PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHOWN DARK AND SOLID ARE TO BE NEW UNLESS OTHERWISE NOTED. ALL DEVICES AND EQUIPMENT SHOWN HALF TONE (LIGHT) AND SOLID ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

POWER KEY NOTES

1 ALL DEVICES WHICH ARE MOUNTED ON EXISTING WALLS SHALL BE SURFACE MOUNTED DEVICES. THE RACEWAY SERVING THESE SPACES SHALL BE WIREMOLD PAINTED TO MATCH THE WALL. THE RACEWAY SHALL COME FROM THE CEILING & CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. EXPOSED CONDUIT IN FINISHED SPACES IS NOT ACCEPTABLE. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

2 EQUIPMENT SHOWN IS CONTROLLED VIA THE BUILDING MANAGEMENT SYSTEM. PROVIDE ALL NECESSARY WIRING BETWEEN THE CONTROLLER, EQUIPMENT, RELAYS, ETC. COORDINATE LOCATION OF POWER FOR EQUIPMENT SHOWN W/ASSOCIATED CONTRACTORS OF OTHER DISCIPLINES.

3 POWER TO DAMPER SHALL COME FROM NEARBY AREA RECEPTACLE CIRCUIT. PROVIDE DUCT SMOKE & FIRE ALARM RELAY. WIRING OF DAMPER SHALL CLOSE ON DETECTION OF SMOKE & DETECTORS/RELAYS SHALL BE WIRED TO FIRE ALARM SYSTEM. COORDINATE W/CONTRACTOR.

4 INSTALL NEW SURFACE MOUNTED BOX EXTENSION W/RECEPTACLE TO EXISTING BACK BOX OF RECEPTACLE WHICH WAS REMOVED. INSTALL WIREMOLD TO INTERCONNECT THE DEVICES ON THE CIRCUIT SHOWN. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

5 EXISTING SURFACE MOUNTED RECEPTACLE. INSTALL WIREMOLD FROM DEVICE TO ACCESSIBLE CEILING SPACE IF POSSIBLE, OR TO NEXT DEVICE/FIXTURE IN THE CIRCUIT AS SHOWN. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

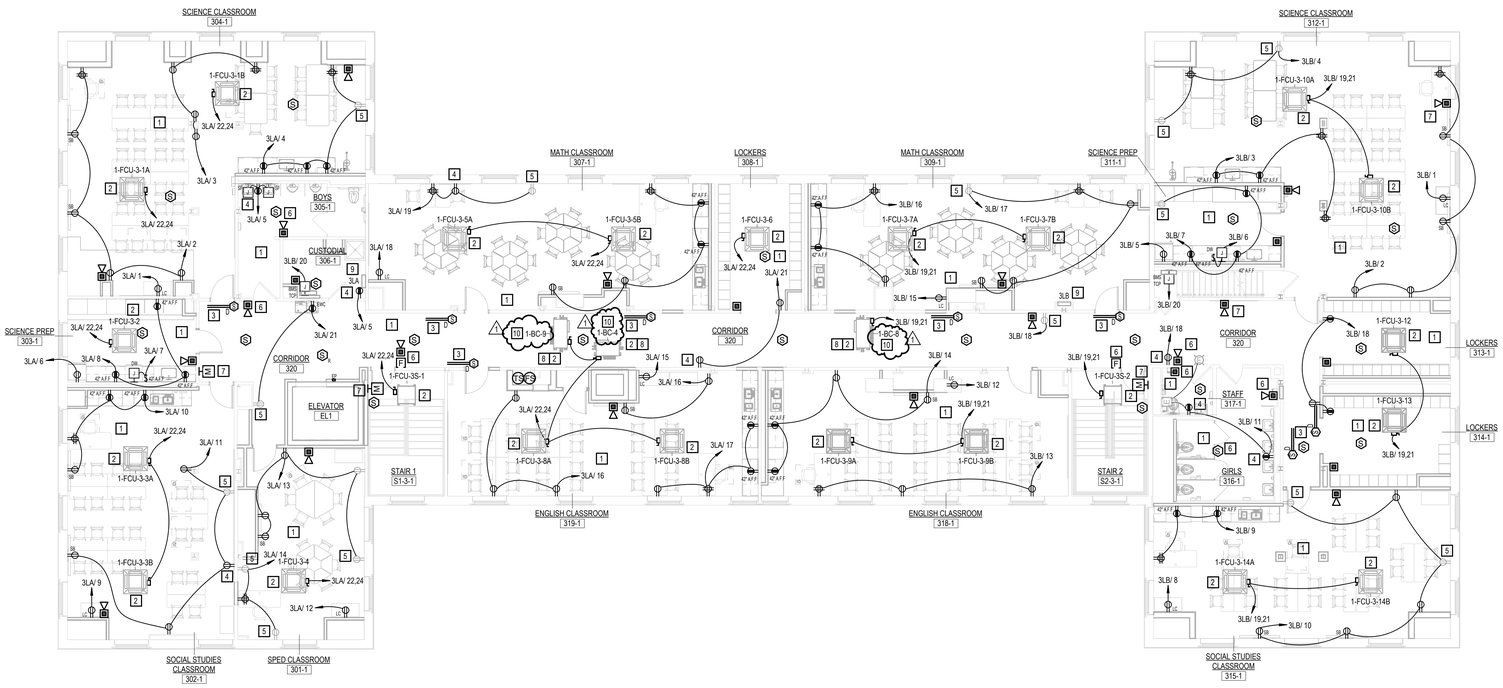
6 INSTALL NEW SURFACE MOUNTED BOX EXTENSION W/FIRE ALARM DEVICE TO EXISTING BACK BOX OF FIRE ALARM DEVICE WHICH WAS REMOVED. INSTALL WIREMOLD TO ACCESSIBLE CEILING SPACE TO INTERCONNECT DEVICE TO FIRE ALARM LOOP FOR THE AREA.

7 INSTALL NEW SURFACE MOUNTED FIRE ALARM DEVICE IN SAME LOCATION AS DEVICE WHICH WAS REMOVED. REUSE EXISTING RACEWAY TO FISH WIRES TO DEVICE FROM NEARBY FIRE ALARM LOOP. EXTEND RACEWAY AS NECESSARY TO REACH ACCESSIBLE CEILING SPACE.

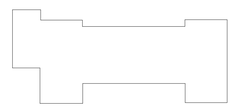
8 VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.

9 EXISTING ELECTRICAL PANEL. REFER TO ONE-LINE DIAGRAM DRAWING E300-1 AND PANEL SCHEDULE ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.

1 10 CONDENSATE PUMP FOR BCC'S & WALL MOUNTED FCU'S NEED WIRING/POWER PROVIDED TO THEM. CONDENSATE PUMP POWER SHALL COME FROM THE UNIT IT IS SERVING. DISCONNECT SWITCH WIRING SHALL BE CONNECTED TO THE UNIT SAFETY CONNECTORS. WIRING SHALL BE FIELD SUPPLIED & SHALL BE IN ACCORDANCE W/MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.



1 THIRD FLOOR POWER PLAN
1/8" = 1'-0"



KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
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311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 1 - THIRD LEVEL POWER PLAN
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
Scale: As indicated
Drawn By: MTC
Project Number: 22.050

Drawing Number: E230-1

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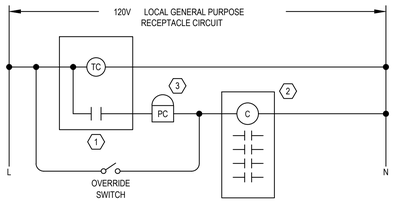


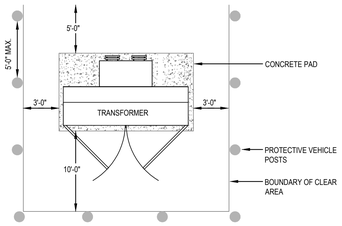
LOCATED ADJACENT TO TIME CLOCK
#POLES: 8
CIRCUIT#: REFER TO ELECTRICAL SITE PLAN SHEET E400

CONTACTOR SCHEDULE

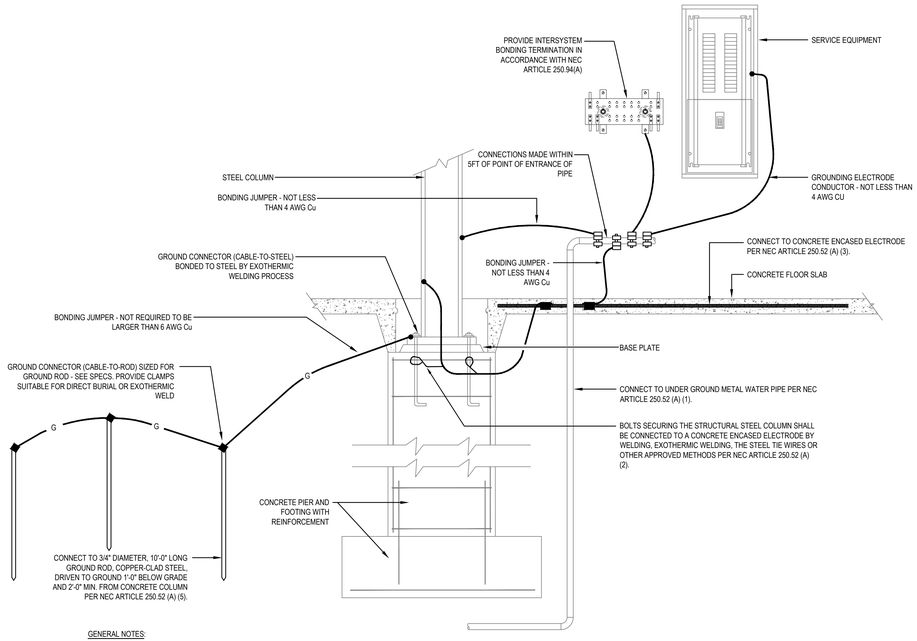
TAG	DESCRIPTION	MODEL NO.	REMARKS
1	DIGITAL PROGRAMMABLE TIME CLOCK 24HR, 7DAY 365DAY, SEASONAL SCHEDULING, 99 ON/OFF POINTS, PERMANENT SCHEDULE RETENTION ON POWER LOSS, POWER OUTAGE BACKUP, AUTOMATIC LEAP YEAR AND DAYLIGHT SAVINGS TIME ADJ., MECHANICALLY HELD CONTACTS, MULTI VOLTAGE INPUT.	TORK DZS200A OR EQUIVALENT INTERMATIC OR SQUARE D	1,2,4
2	CONTACTOR ELECTRICALLY OPERATED, MECHANICALLY HELD, 20A LIGHTING CONTACTOR, CONTROL VOLTAGE AS LISTED, FROM LOCAL GENERAL PURPOSE RECEPTACLE CIRCUIT.	ASCO 917 SERIES WITH 2 WIRE CONTROL OPTION OR EQUIVALENT GE OR SQUARED	
3	PHOTOCELL 1800W, 15A, -40 DEG. TO 140 DEG., SOLID STATE SPST, DRY CONTACT, LIGHT LEVEL RANGE 1.5 TO 10fC WITH ADJUSTMENT, TIME DELAY 15 SEC. MINIMUM.	TORK 2100 SERIES OR EQUIVALENT INTERMATIC OR SQUARE D	3

NOTES:
1. TIMECLOCK SHALL BE PROGRAMMED TO TURN SITE LIGHTING ON AT DUSK (VIA PHOTOCELL) AND OFF WHENEVER THE OWNER WOULD LIKE IT OFF
2. LOCATE TIME CLOCK ADJACENT TO ELECTRICAL PANEL.
3. PHOTOCELL TO BE LOCATED ON SOUTHERN EXPOSURE.
4. PROVIDE BACNET CAPABILITY TO TIE INTO BMS & ACCESS CONTROLS REMOTELY.

1 LIGHTING TIME CLOCK & CONTACTOR DETAIL
SCALE: NONE

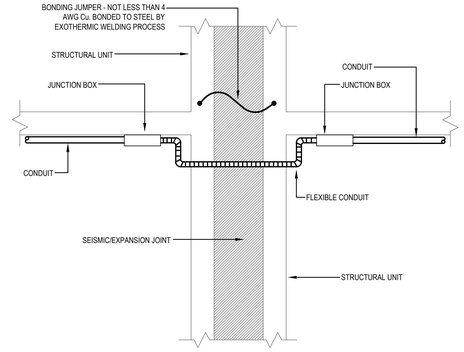


2 TYPICAL PAD MOUNTED TRANSFORMER
SCALE: NONE

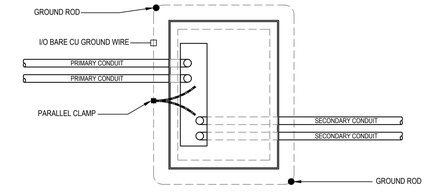


GENERAL NOTES:
1. PROVIDE GROUNDING ELECTRODE SYSTEM PER NEC ARTICLE 250.50. ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52 (A) (1) THROUGH (A) (7) THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.

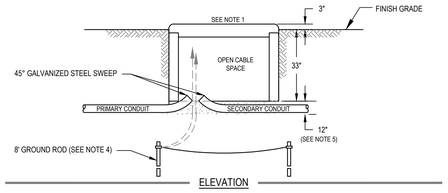
3 TYPICAL GROUNDING DETAIL
SCALE: NONE



4 EXPANSION/SEISMIC JOINT FITTING DETAIL
SCALE: NONE



PLAN VIEW



ELEVATION

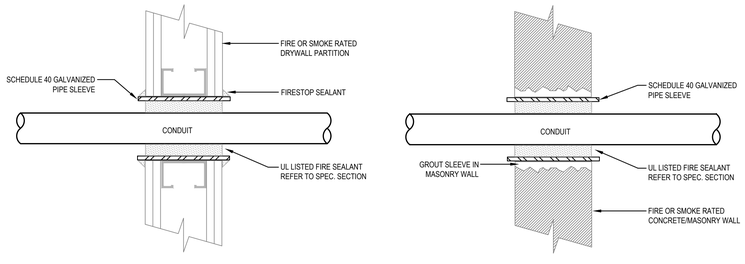
NOTES:
1. 75-300 KVA: INSTALL 76" X 54" X 36" PAD PER SPC P-05, P-06.
   500-1500 KVA: INSTALL 76" X 70" X 36" PAD PER SPC P-07, P-08.
2. PRIMARY CABLE:
   A. INSTALL CABLES IN CONDUIT A MINIMUM OF 30" BELOW GRADE
   B. LOOP CABLES IN CABLE VAULT BEFORE MAKING CONNECTIONS.
3. SECONDARY CABLE:
   LEAVE SLACK FOR FUTURE RECONNECTING TO TRANSFORMERS WITH HIGHER SECONDARY TERMINALS.
4. COPPERWELD GROUND RODS: INSTALL IN TRENCH AND CONNECT A BARE I/O COPPER CONDUCTOR FROM RODS THROUGH PAD OPENING AND EXTENDING 5 FT. ABOVE PAD.
5. THE EXCAVATION FOR THE PAD SHALL BE CARRIED TO A DEPTH OF 12" BELOW THE BOTTOM OF THE PAD WALLS. THE BACKFILL UNDER THE PAD WALLS SHALL BE A CLEAN GRAVEL, FREE OF FOREIGN MATTER AND CONSTRUCTION DEBRIS, AND IN ACCORDANCE WITH CONN D.O.T. SPEC. M.02.06 GRADING "A". BACKFILL SHALL BE PLACED IN 6" LAYERS AND COMPACTED WITH MECHANICAL TAMPERS TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD COMPACTION TESTS, AASHTO T180 OR ASTM D698.

5 PRECAST CONCRETE TRANSFORMER PAD DETAIL
SCALE: NONE

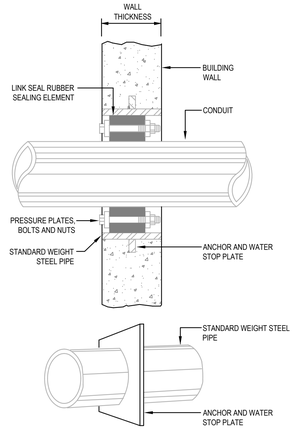
GENERAL NOTES:

PROVIDE UL LISTED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/ UL1479, ASTM E814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE INSTALLED.

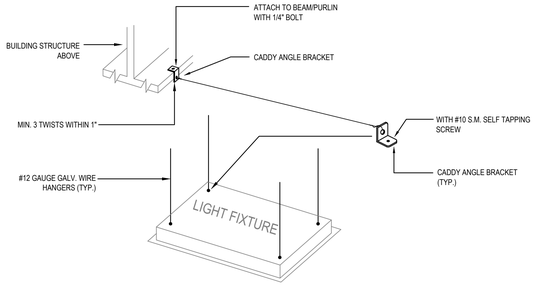
FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL BEING PENETRATED - SEE SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS AND LOCATIONS.



6 WALL PENETRATION W/FIRE-SMOKE SEAL DETAIL
SCALE: NONE



7 WATER-TIGHT WALL SLEEVE
SCALE: NONE



1. ALL LIGHTING FIXTURES SHALL BE SECURED TO THE STRUCTURE BY THE ELECTRICAL CONTRACTOR.
2. FLUSH OR RECESSED LIGHT FIXTURES LESS THAN 56 POUNDS SHALL HAVE 2 - 12 GA. SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
3. FLUSH OR RECESSED LIGHT FIXTURES MORE THAN 56 POUNDS SHALL HAVE 4 - 12 GA. SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
4. SECURE SURFACE MOUNTED LIGHT FIXTURES W/ MINIMUM OF 2 - POSITIVE CLAMPING DEVICES OF 14 GA. MINIMUM STEEL AND W/ 12 GA. WIRE TO BUILDING STRUCTURE.

8 TYPICAL LAY-IN GRID LIGHTING FIXTURE SUPPORT/MOUNTING DETAIL
SCALE: NONE

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
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Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

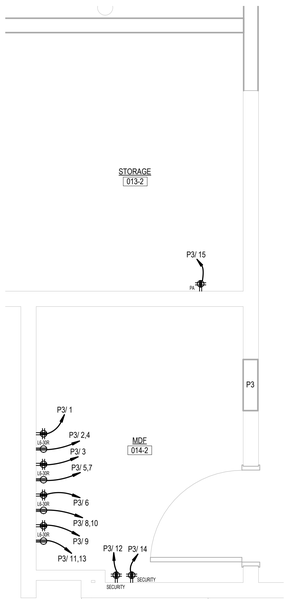
Drawing Title: BUILDING 1 - DETAILS
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG
Date: AUGUST 12, 2025
Scale: AS NOTED
Drawn By: MTC
Project Number: 22.050
Drawing Number: E400-1

GENERAL POWER NOTES

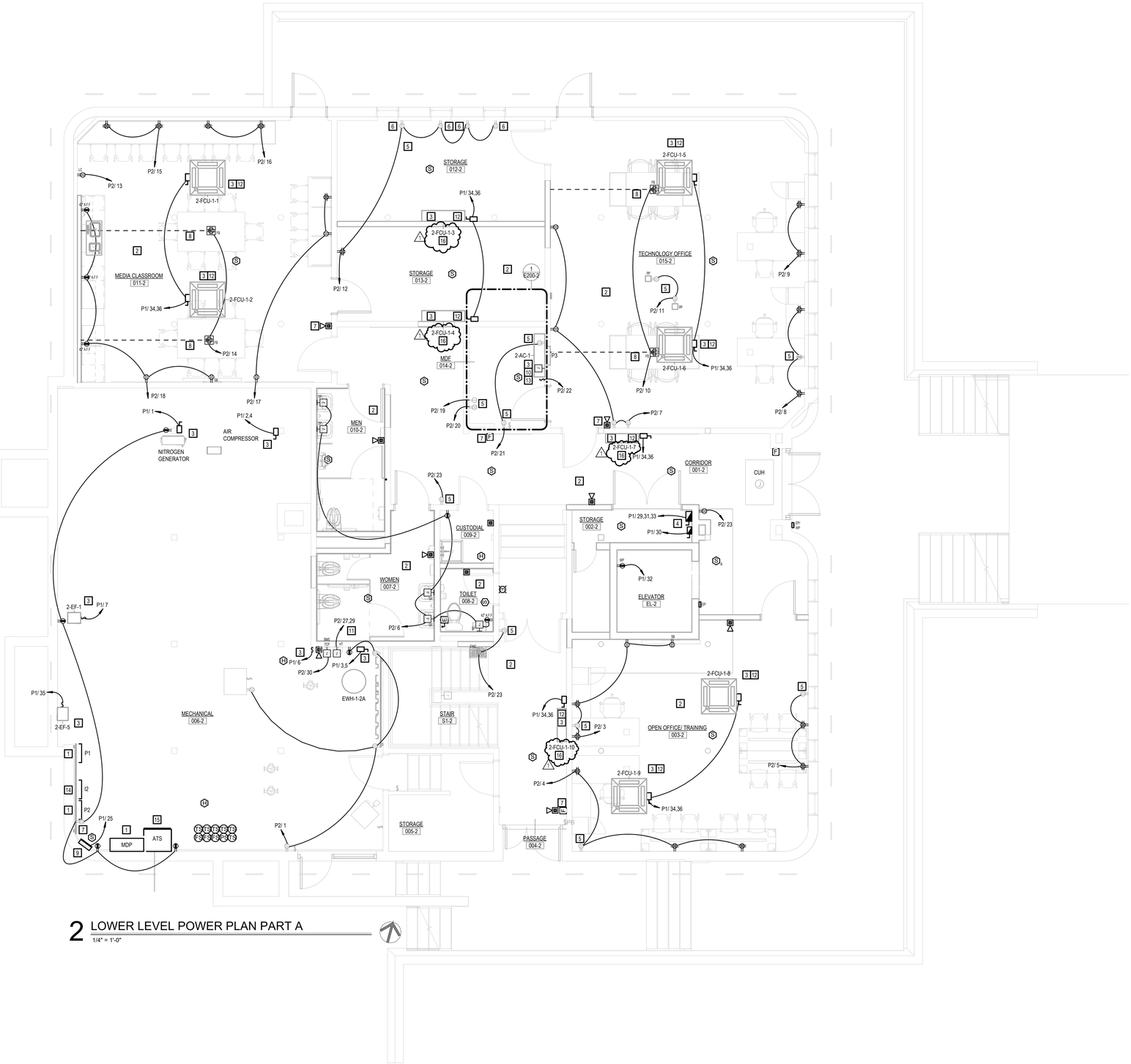
1. REFER TO DRAWING E001-2 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. ALL NEW RECEPTACLES SHALL BE TAMPER-PROOF TYPE PER NEC 406.12 UNLESS LOCATED MORE THAN 5'-6" ABOVE THE FLOOR OR SERVE A DEDICATED PIECE OF EQUIPMENT THAT CAN NOT BE EASLY MOVED TO EXPOSE THE PLUG.
3. ALL DEVICES (RECEPTACLES, FIRE ALARM, CALL FOR AID, ETC.), AND ELECTRICAL EQUIPMENT (PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHOWN DARK AND SOLID ARE TO BE NEW UNLESS OTHERWISE NOTED. ALL DEVICES AND EQUIPMENT SHOWN HALF TONE (LIGHT) AND SOLID ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

POWER KEY NOTES

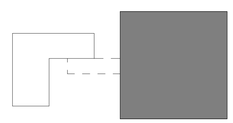
1. FURNISH AND INSTALL ELECTRICAL PANEL AND REWORK EXISTING CIRCUITS TO THIS PANEL, WHICH ARE NOT BEING REMOVED. CONTRACTOR TO MAINTAIN ALL EXISTING ACTIVE BRANCH CIRCUITS. BALANCE LOADS AND INSTALL NEW TYPED PANEL DIRECTORY. REFER TO ONE LINE DIAGRAM DRAWING E300-2 AND PANEL SCHEDULE ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.
2. ALL NEW DEVICES WHICH ARE MOUNTED ON EXISTING WALLS SHALL BE SURFACE MOUNTED DEVICES. THE RACEWAY SERVING THESE SPACES SHALL BE WIREMOLD PAINTED TO MATCH THE WALL. THE RACEWAY SHALL COME FROM THE CEILING & CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. EXPOSED CONDUIT IN FINISHED SPACES IS NOT ACCEPTABLE. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.
3. EQUIPMENT SHOWN IS CONTROLLED VIA THE BUILDING MANAGEMENT SYSTEM. PROVIDE ALL NECESSARY WIRING BETWEEN THE CONTROLLER, EQUIPMENT, RELAYS, ETC. COORDINATE LOCATION OF POWER FOR EQUIPMENT SHOWN W/ASSOCIATED CONTRACTORS OF OTHER DISCIPLINES.
4. PROVIDE & INSTALL NEMA 1, 60A, 208V, 3 PHASE, SHUNT-TRIP FUSIBLE DISCONNECT SWITCH WITH AUXILIARY CONTACTS TO BE WIRED TO ELEVATOR BATTERY BACKUP. DISCONNECT SWITCH SHALL CONTAIN 40A FUSES. PROVIDE & INSTALL NEMA 1, 30A, 120V, SINGLE PHASE, FUSED DISCONNECT SWITCH W/20A FUSE FOR CAB LIGHTING/POWER.
5. INSTALL NEW RECEPTACLE IN EXISTING BACK BOX OF RECEPTACLE WHICH WAS REMOVED. FISH WIRE TO DEVICE & WIRE IT TO DEVICES ON CIRCUIT AS SHOWN.
6. EXISTING SURFACE MOUNTED RECEPTACLE. INSTALL WIREMOLD TO INTERCONNECT DEVICES AS SHOWN & TO ACCESSIBLE CEILING SPACE. MINIMIZE AMOUNT OF WIREMOLD USED AS POSSIBLE, WIREMOLD SHALL BE PAINTED TO MATCH COLOR OF WALL INSTALLED ON.
7. INSTALL NEW FIRE ALARM DEVICE IN EXISTING BACK BOX OF DEVICE WHICH WAS REMOVED. FISH WIRE TO DEVICE THROUGH EXISTING RACEWAY & INTERCONNECT DEVICE TO FIRE ALARM LOOP FOR THE AREA.
8. PROPOSED CONDUIT PATH FOR FLOOR BOXES, FLOOR MUST BE TRENCHED TO LOCATIONS SHOWN. COORDINATE W/ARCHITECTURAL DRAWINGS. ANY PATHWAY WHICH IS TO BE LOCATED ON AN EXISTING WALL SHALL BE WIREMOLD, PAINTED TO MATCH COLOR OF WALL.
9. BUILDING WILL BE OCCUPIED WHILE BEING RENOVATED. THE FIRE ALARM SYSTEM MUST BE FUNCTIONAL AT ALL TIMES. WORK ON THE FIRE ALARM SYSTEM SHOULD BE DONE DURING OFF HOURS, OR DURING TIMES WHEN THERE WILL BE MINIMAL INTERRUPTION TO THE BUILDING. IF NEEDED, A FIRE WATCH SHOULD BE PROVIDED.
10. INDOOR UNIT SHOWN IS POWERED BY THE OUTDOOR CONDENSING UNIT. WIRE UNIT TO THE ASSOCIATED CONDENSING UNIT. REFER TO MANUFACTURERS INSTRUCTIONS FOR INSTALLATION.
11. POWER FOR HEAT TRACE. COORDINATE LOCATION OF CONTROLLER W/PLUMBING CONTRACTOR. CIRCUIT BREAKER SERVING HEAT TRACE SHALL BE GFCI.
12. FAN COIL UNITS SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.
13. AC UNIT SHOWN WILL HAVE A HARD WIRED CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.
14. FURNISH AND INSTALL ELECTRICAL LIGHTING INVERTER PANEL. REFER TO ONE-LINE DIAGRAM DRAWING E300-2 AND PANEL SCHEDULE ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.
15. FURNISH AND INSTALL ELECTRICAL EQUIPMENT. REFER TO ONE-LINE DIAGRAM DRAWING E300-2 FOR NEW WORK REQUIREMENTS.
16. CONDENSATE PUMP FOR BCCS & WALL MOUNTED FCUS NEED WIRING/POWER PROVIDED TO THEM. CONDENSATE PUMP POWER SHALL COME FROM THE UNIT IT IS SERVING. DISCONNECT SWITCH WIRING SHALL BE CONNECTED TO THE UNIT SAFETY CONNECTORS. WIRING SHALL BE FIELD SUPPLIED & SHALL BE IN ACCORDANCE W/MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.



1 MDF PART PLAN
1/2" = 1'-0"



2 LOWER LEVEL POWER PLAN PART A
1/4" = 1'-0"



KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title:
BUILDING 2 - LOWER LEVEL POWER PLAN PART A

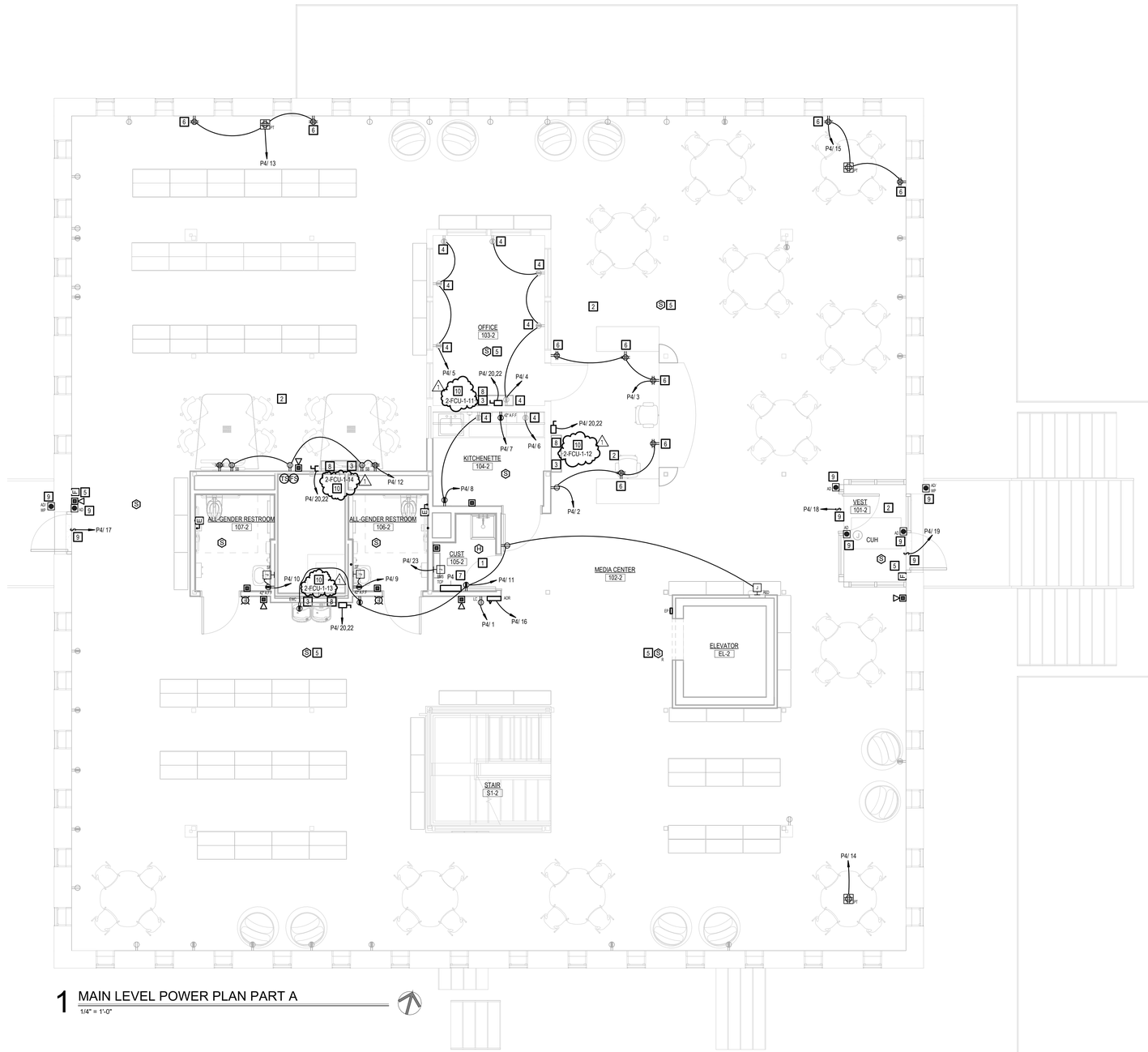
Project Phase:
ISSUED FOR BID - 11/03/2025

State Project Number:
#244-0044 MAG

Date: AUGUST 12, 2025
Scale: As indicated
Drawn By: MTC
Project Number: 22.050

Drawing Number: E200-2

12/16/2025 10:23:17 AM



1 MAIN LEVEL POWER PLAN PART A

1/4" = 1'-0"

GENERAL POWER NOTES

1 REFER TO DRAWING E001-2 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.

2 ALL NEW RECEPTACLES SHALL BE TAMPER-PROOF TYPE PER NEC 406.12 UNLESS LOCATED MORE THAN 5'-6" ABOVE THE FLOOR OR SERVE A DEDICATED PIECE OF EQUIPMENT THAT CAN NOT BE EASLY MOVED TO EXPOSE THE PLUG.

3 ALL DEVICES (RECEPTACLES, FIRE ALARM, CALL FOR AID, ETC.), AND ELECTRICAL EQUIPMENT (PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHOWN DARK AND SOLID ARE TO BE NEW UNLESS OTHERWISE NOTED. ALL DEVICES AND EQUIPMENT SHOWN HALF TONE (LIGHT) AND SOLID ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

POWER KEY NOTES

1 PANELS SHOWN ARE TO HAVE EXISTING CIRCUITS REWORKED TO THEM WHICH ARE NOT BEING REMOVED. CONTRACTOR TO MAINTAIN ALL EXISTING ACTIVE BRANCH CIRCUITS. REBALANCE LOADS AND UPDATE PANEL DIRECTORIES TO REFLECT ALL CHANGES MADE TO THESE PANELS.

2 ALL DEVICES WHICH ARE MOUNTED ON EXISTING WALLS SHALL BE SURFACE MOUNTED DEVICES. THE RACEWAY SERVING THESE SPACES SHALL BE WIREMOLD PAINTED TO MATCH THE WALL. THE RACEWAY SHALL COME FROM THE CEILING & CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. EXPOSED CONDUIT IN FINISHED SPACES IS NOT ACCEPTABLE. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

3 EQUIPMENT SHOWN IS CONTROLLED VIA THE BUILDING MANAGEMENT SYSTEM. PROVIDE ALL NECESSARY WIRING BETWEEN THE CONTROLLER, EQUIPMENT, RELAYS, ETC. COORDINATE LOCATION OF POWER FOR EQUIPMENT SHOWN W/ASSOCIATED CONTRACTORS OF OTHER DISCIPLINES.

4 INSTALL NEW SURFACE MOUNTED BOX EXTENSION W/RECEPTACLE TO EXISTING BACK BOX OF RECEPTACLE WHICH WAS REMOVED. INSTALL WIREMOLD TO INTERCONNECT THE DEVICES ON THE CIRCUIT SHOWN. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

5 INSTALL NEW SURFACE MOUNTED BOX EXTENSION W/FIRE ALARM DEVICE TO EXISTING BACK BOX OF FIRE ALARM DEVICE WHICH WAS REMOVED. INSTALL WIREMOLD TO INTERCONNECT DEVICE TO FIRE ALARM LOOP FOR THE AREA.

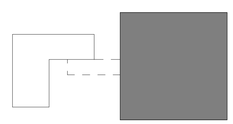
6 RECEPTACLES SHOWN SHALL BE MOUNTED TO THE FURNITURE SHOWN FOR THE SPACE. POWER WILL COME FROM THE ASSOCIATED WALL OR VIA THE POKE THROUGH SHOWN. ALL SURFACE MOUNTED RECEPTACLES SHALL BE RUN IN WIREMOLD PAINTED TO MATCH THE SURFACE IT IS MOUNTED TO. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

7 FURNISH AND INSTALL NEW SURFACE MOUNTED ELECTRICAL PANEL TO EXISTING RECESSED PANEL BACK BOX. DO EVERYTHING NECESSARY DURING CONSTRUCTION TO MAINTAIN THE BACK BOX & CIRCUITS THAT WILL NEED TO BE EXTENDED INTO NEW PANEL. REFER TO ONE LINE DIAGRAM DRAWING E300-2 AND PANEL SCHEDULES ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.

8 FAN COIL UNITS SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.

9 INSTALL NEW POWERED DOOR OPENERS AT THE DOOR SHOWN. INSTALL A TOGGLE DISCONNECT SWITCH AT THE MOTOR. INSTALL PUSH PLATE DOOR OPERATORS AT THE LOCATIONS SHOWN. COORDINATE W/ARCHITECT FOR EXACT LOCATIONS. PROVIDE ALL WIRING, CONDUIT, EQUIPMENT NECESSARY FOR A COMPLETE & WORKING INSTALLATION. ANY DEVICES WHICH ARE MOUNTED ON AN EXISTING WALL OR MULLION SHALL HAVE WIREMOLD PAINTED THE SAME COLOR AS THE WALL OR MULLION IT IS INSTALLED ON. POWER FOR CIRCUIT IS ASSUMED FOR A 1/2 HP MOTOR. IF THE MOTOR IS LARGER THE CIRCUIT BREAKER SERVING IT WILL NEED TO BE INCREASED, AS WELL AS THE WIRE SIZE.

10 CONDENSATE PUMP FOR BCC'S & WALL MOUNTED FCU'S NEED WIRING/POWER PROVIDED TO THEM. CONDENSATE PUMP POWER SHALL COME FROM THE UNIT IT IS SERVING. DISCONNECT SWITCH WIRING SHALL BE CONNECTED TO THE UNIT SAFETY CONNECTORS. WIRING SHALL BE FIELD SUPPLIED & SHALL BE IN ACCORDANCE W/MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.



KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 2 - MAIN LEVEL POWER PLAN PART A
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
Scale: As indicated
Drawn By: MTC
Project Number: 22.050

Drawing Number: E210-2

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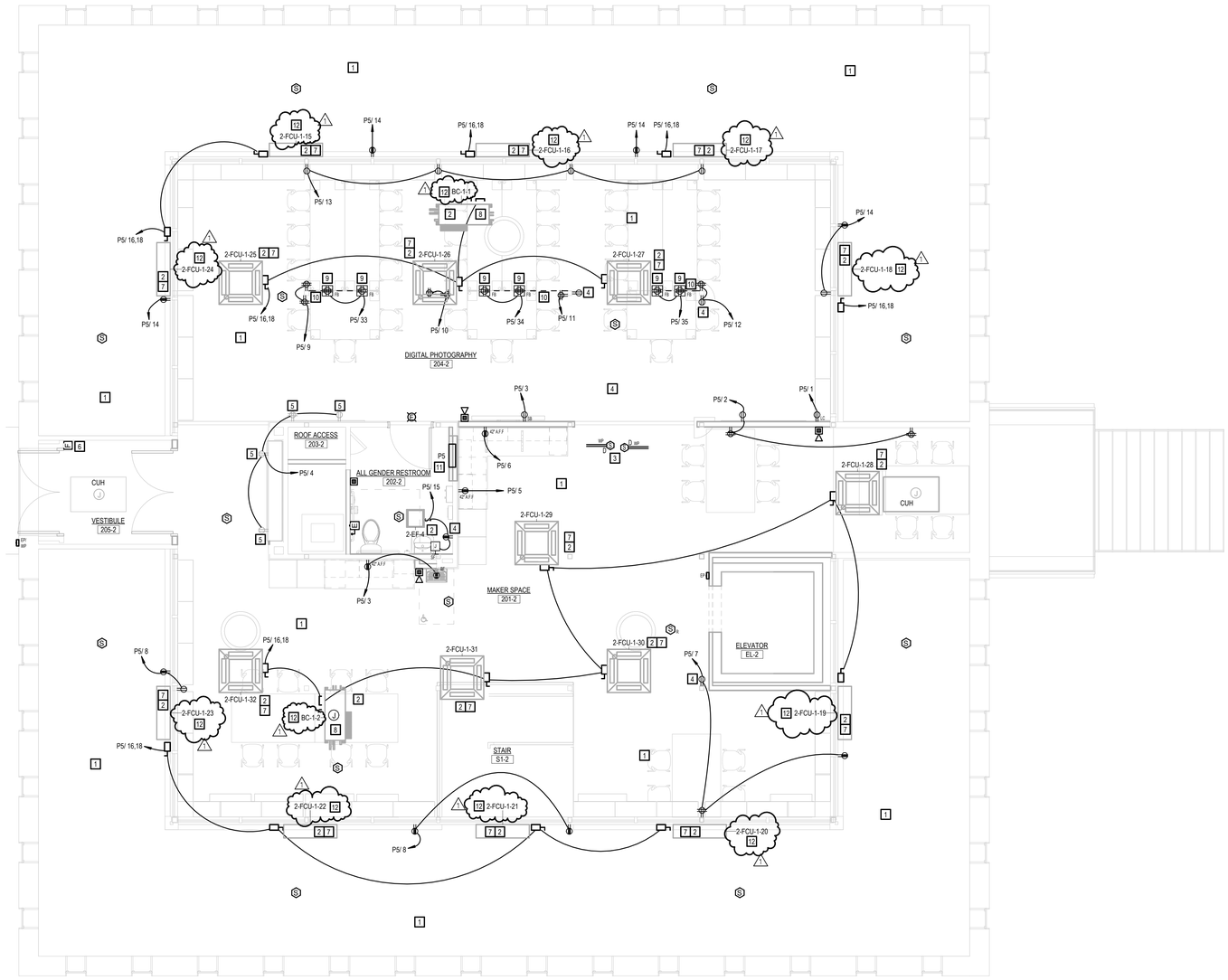


1 MEZZANINE LEVEL POWER PLAN PART A
1/4" = 1'-0"

GENERAL POWER NOTES

1 REFER TO DRAWING E001-2 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.

2 ALL NEW RECEPTACLES SHALL BE TAMPER-PROOF TYPE PER NEC 406.12 UNLESS LOCATED MORE THAN 5'-6" ABOVE THE FLOOR OR SERVE A DEDICATED PIECE OF EQUIPMENT THAT CAN NOT BE EASLY MOVED TO EXPOSE THE PLUG.

3 ALL DEVICES (RECEPTACLES, FIRE ALARM, CALL FOR AID, ETC.), AND ELECTRICAL EQUIPMENT (PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHOWN DARK AND SOLID ARE TO BE NEW UNLESS OTHERWISE NOTED. ALL DEVICES AND EQUIPMENT SHOWN HALF TONE (LIGHT) AND SOLID ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

POWER KEY NOTES

1 ALL DEVICES WHICH ARE MOUNTED ON EXISTING WALLS SHALL BE SURFACE MOUNTED DEVICES. THE RACEWAY SERVING THESE SPACES SHALL BE WIREMOLD PAINTED TO MATCH THE WALL. THE RACEWAY SHALL COME FROM THE CEILING & CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. EXPOSED CONDUIT IN FINISHED SPACES IS NOT ACCEPTABLE. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

2 EQUIPMENT SHOWN IS CONTROLLED VIA THE BUILDING MANAGEMENT SYSTEM. PROVIDE ALL NECESSARY WIRING BETWEEN THE CONTROLLER, EQUIPMENT, RELAYS, ETC. COORDINATE LOCATION OF POWER FOR EQUIPMENT SHOWN W/ASSOCIATED CONTRACTORS OF OTHER DISCIPLINES.

3 DUCT SMOKE DETECTORS FOR DOAS. PROVIDE & INSTALL 1 FOR SUPPLY & 1 FOR RETURN. DETECTOR SHALL BE COMPATIBLE W/FACP. COORDINATE EXACT LOCATIONS IN FIELD.

4 INSTALL NEW RECEPTACLE IN EXISTING BACK BOX OF RECEPTACLE WHICH WAS REMOVED. FISH WIRE TO DEVICE & WIRE IT TO DEVICES ON CIRCUIT AS SHOWN.

5 EXISTING SURFACE MOUNTED RECEPTACLE. INSTALL WIREMOLD TO INTERCONNECT DEVICES AS SHOWN & TO ACCESSIBLE CEILING SPACE. MINIMIZE AMOUNT OF WIREMOLD USED AS POSSIBLE, WIREMOLD SHALL BE PAINTED TO MATCH COLOR OF WALL INSTALLED ON.

6 INSTALL NEW FIRE ALARM DEVICE IN EXISTING BACK BOX OF DEVICE WHICH WAS REMOVED. FISH WIRE TO DEVICE THROUGH EXISTING RACEWAY & INTERCONNECT DEVICE TO FIRE ALARM LOOP FOR THE AREA.

7 FAN COIL UNITS SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.

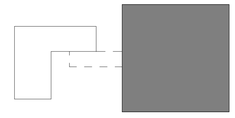
8 VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.

9 FLOOR BOXES SHOWN ARE FOR POWER FEEDS TO THE FURNITURE THEY ARE SHOWN NEXT TO. FEED TO TABLES SHOULD BE A WHIP. COORDINATE W/FURNITURE VENDOR ON THE EXACT LOCATION THE FLOOR BOXES SHOULD BE INSTALLED, DONT TRENCH OR INSTALL PRIOR TO CONFIRMING. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN FLOOR BOX WHERE NECESSARY.

10 PROPOSED CONDUIT PATH FOR FLOOR BOXES, FLOOR MUST BE TRENCHED TO LOCATIONS SHOWN, COORDINATE W/ARCHITECTURAL DRAWINGS. ANY PATHWAY WHICH IS TO BE LOCATED ON AN EXISTING WALL SHALL BE WIREMOLD, PAINTED TO MATCH COLOR OF WALL.

11 FURNISH AND INSTALL ELECTRICAL PANEL. REFER TO ONE LINE DIAGRAM DRAWING E300-2 AND PANEL SCHEDULES ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.

12 CONDENSATE PUMP FOR BCC'S & WALL MOUNTED FCU'S NEED WIRING/POWER PROVIDED TO THEM. CONDENSATE PUMP POWER SHALL COME FROM THE UNIT IT IS SERVING. DISCONNECT SWITCH WIRING SHALL BE CONNECTED TO THE UNIT SAFETY CONNECTORS. WIRING SHALL BE FIELD SUPPLIED & SHALL BE IN ACCORDANCE W/MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.



KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 2 - MEZZANINE LEVEL POWER PLAN PART A
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
Scale: As indicated
Drawn By: MTC
Project Number: 22.050

Drawing Number: E220-2

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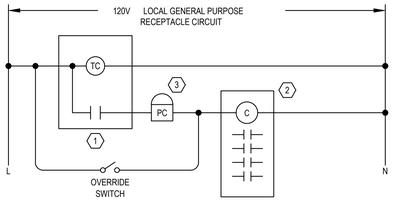


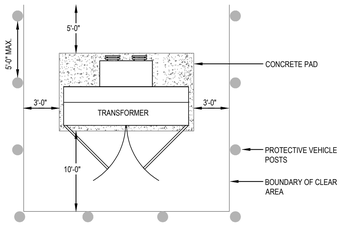
LOCATED ADJACENT TO TIME CLOCK
#POLES: 8
CIRCUIT#: REFER TO ELECTRICAL SITE PLAN SHEET E400

CONTACTOR SCHEDULE

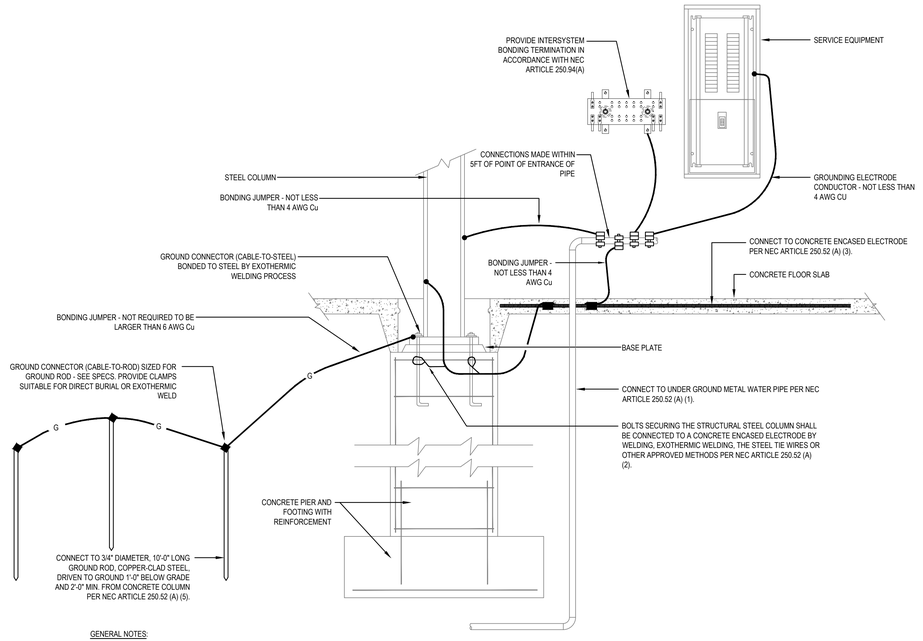
TAG	DESCRIPTION	MODEL NO.	REMARKS
1	DIGITAL PROGRAMMABLE TIME CLOCK 24HR, 7DAY 365DAY, SEASONAL SCHEDULING, 99 ON/OFF POINTS, PERMANENT SCHEDULE RETENTION ON POWER LOSS, POWER OUTAGE BACKUP, AUTOMATIC LEAP YEAR AND DAYLIGHT SAVINGS TIME ADJ., MECHANICALLY HELD CONTACTS, MULTI VOLTAGE INPUT.	TORK DZS200A OR EQUIVALENT INTERMATIC OR SQUARE D	1,2,4
2	CONTACTOR ELECTRICALLY OPERATED, MECHANICALLY HELD, 20A LIGHTING CONTACTOR, CONTROL VOLTAGE AS LISTED, FROM LOCAL GENERAL PURPOSE RECEPTACLE CIRCUIT.	ASCO 917 SERIES WITH 2 WIRE CONTROL OPTION OR EQUIVALENT GE OR SQUARED	
3	PHOTOCELL 1800W, 1SA, -40 DEG. TO 140 DEG., SOLID STATE SPST, DRY CONTACT, LIGHT LEVEL RANGE 1.5 TO 10fC WITH ADJUSTMENT, TIME DELAY 15 SEC. MINIMUM	TORK 2100 SERIES OR EQUIVALENT INTERMATIC OR SQUARE D	3

NOTES:
1. TIMECLOCK SHALL BE PROGRAMMED TO TURN SITE LIGHTING ON AT DUSK (VIA PHOTOCELL) AND OFF WHENEVER THE OWNER WOULD LIKE IT OFF
2. LOCATE TIME CLOCK ADJACENT TO ELECTRICAL PANEL.
3. PHOTOCELL TO BE LOCATED ON SOUTHERN EXPOSURE.
4. PROVIDE BACNET CAPABILITY TO TIE INTO BMS & ACCESS CONTROLS REMOTELY.

1 LIGHTING TIME CLOCK & CONTACTOR DETAIL
SCALE: NONE



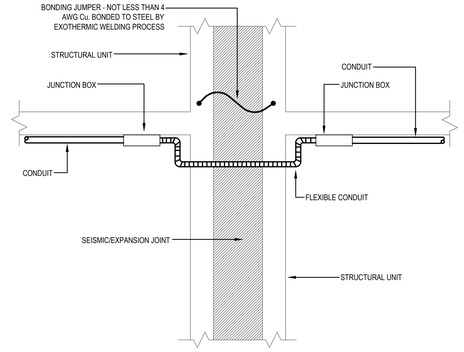
2 TYPICAL PAD MOUNTED TRANSFORMER
SCALE: NONE



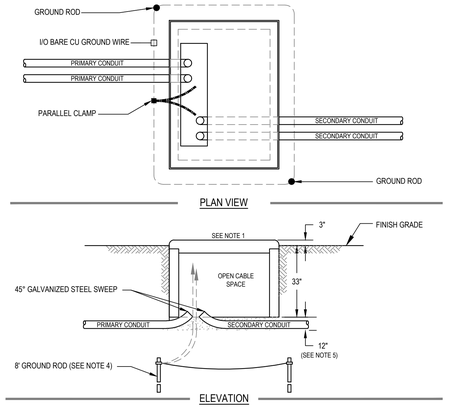
GENERAL NOTES:

1. PROVIDE GROUNDING ELECTRODE SYSTEM PER NEC ARTICLE 250.50. ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52 (A) (1) THROUGH (A) (7) THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.

3 TYPICAL GROUNDING DETAIL
SCALE: NONE



4 EXPANSION/SEISMIC JOINT FITTING DETAIL
SCALE: NONE



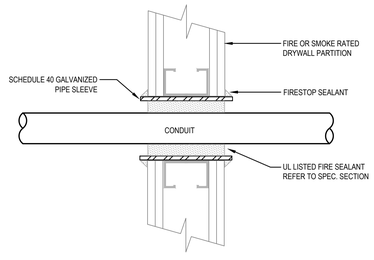
NOTES:
1. 75-300 KVA: INSTALL 76" X 54" X 36" PAD PER SPC P-05, P-06.
   500-1500 KVA: INSTALL 76" X 70" X 36" PAD PER SPC P-07, P-08.
2. PRIMARY CABLE:
   A. INSTALL CABLES IN CONDUIT A MINIMUM OF 30" BELOW GRADE
   B. LOOP CABLES IN CABLE VAULT BEFORE MAKING CONNECTIONS.
3. SECONDARY CABLE:
   LEAVE SLACK FOR FUTURE RECONNECTING TO TRANSFORMERS WITH HIGHER SECONDARY TERMINALS.
4. COPPERWELD GROUND RODS: INSTALL IN TRENCH AND CONNECT A BARE I/O COPPER CONDUCTOR FROM RODS THROUGH PAD OPENING AND EXTENDING 5 FT. ABOVE PAD.
5. THE EXCAVATION FOR THE PAD SHALL BE CARRIED TO A DEPTH OF 12" BELOW THE BOTTOM OF THE PAD WALLS. THE BACKFILL UNDER THE PAD WALLS SHALL BE A CLEAN GRAVEL, FREE OF FOREIGN MATTER AND CONSTRUCTION DEBRIS, AND IN ACCORDANCE WITH CONN D.O.T. SPEC. M.02.06 GRADING "A". BACKFILL SHALL BE PLACED IN 6" LAYERS AND COMPACTED WITH MECHANICAL TAMPERS TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD COMPACTION TESTS, AASHTO T180 OR ASTM D698.

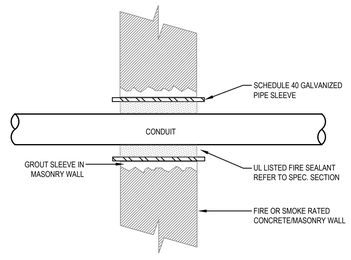
5 PRECAST CONCRETE TRANSFORMER PAD DETAIL
SCALE: NONE

GENERAL NOTES:

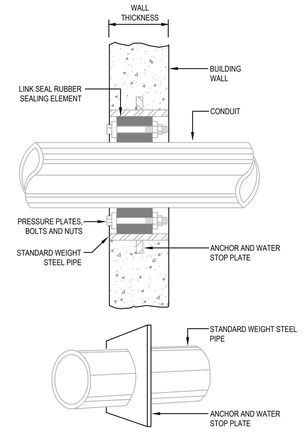
PROVIDE UL LISTED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/ UL1479, ASTM E814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE INSTALLED.

FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL BEING PENETRATED - SEE SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS AND LOCATIONS.

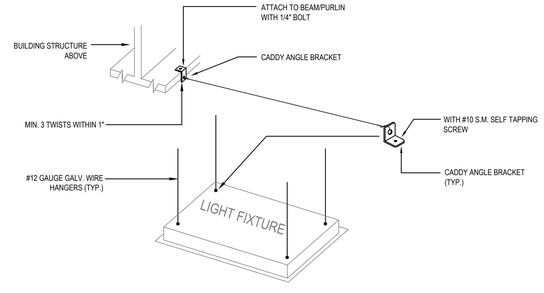




6 WALL PENETRATION W/FIRE-SMOKE SEAL DETAIL
SCALE: NONE



7 WATER-TIGHT WALL SLEEVE
SCALE: NONE



1. ALL LIGHTING FIXTURES SHALL BE SECURED TO THE STRUCTURE BY THE ELECTRICAL CONTRACTOR.
2. FLUSH OR RECESSED LIGHT FIXTURES LESS THAN 56 POUNDS SHALL HAVE 2 - 12 GA. SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
3. FLUSH OR RECESSED LIGHT FIXTURES MORE THAN 56 POUNDS SHALL HAVE 4 - 12 GA. SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
4. SECURE SURFACE MOUNTED LIGHT FIXTURES W/ MINIMUM OF 2 - POSITIVE CLAMPING DEVICES OF 14 GA. MINIMUM STEEL AND W/ 12 GA. WIRE TO BUILDING STRUCTURE.

8 TYPICAL LAY-IN GRID LIGHTING FIXTURE SUPPORT/MOUNTING DETAIL
SCALE: NONE

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

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3190 WHITNEY AVENUE HAMDEN CT 06518
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Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 2 - DETAILS
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG
Date: AUGUST 12, 2025
Scale: AS NOTED
Drawn By: MTC
Project Number: 22.050
Drawing Number: E400-2

GENERAL POWER NOTES

1 REFER TO DRAWING E001-4 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.

2 ALL NEW RECEPTACLES SHALL BE TAMPER-PROOF TYPE PER NEC 406.12 UNLESS LOCATED MORE THAN 5'-6" ABOVE THE FLOOR OR SERVE A DEDICATED PIECE OF EQUIPMENT THAT CAN NOT BE EASLY MOVED TO EXPOSE THE PLUG.

3 ALL DEVICES (RECEPTACLES, FIRE ALARM, CALL FOR AID, ETC.), AND ELECTRICAL EQUIPMENT (PANELBOARDS, DISCONNECT SWITCHES, ETC.) SHOWN DARK AND SOLID ARE TO BE NEW UNLESS OTHERWISE NOTED. ALL DEVICES AND EQUIPMENT SHOWN HALF TONE (LIGHT) AND SOLID ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

POWER KEY NOTES

1 FURNISH AND INSTALL ELECTRICAL PANEL AND REWORK EXISTING CIRCUITS TO THIS PANEL, WHICH ARE NOT BEING REMOVED. CONTRACTOR TO MAINTAIN ALL EXISTING ACTIVE BRANCH CIRCUITS. BALANCE LOADS AND INSTALL NEW TYPED PANEL DIRECTORY. REFER TO ONE LINE DIAGRAM DRAWING E300-4 AND PANEL SCHEDULE ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.

2 ALL DEVICES WHICH ARE MOUNTED ON EXISTING WALLS SHALL BE SURFACE MOUNTED DEVICES. THE RACEWAY SERVING THESE SPACES SHALL BE WIREMOLD PAINTED TO MATCH THE WALL. THE RACEWAY SHALL COME FROM THE CEILING & CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. EXPOSED CONDUIT IN FINISHED SPACES IS NOT ACCEPTABLE. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.

3 EQUIPMENT SHOWN IS CONTROLLED VIA THE BUILDING MANAGEMENT SYSTEM. PROVIDE ALL NECESSARY WIRING BETWEEN THE CONTROLLER, EQUIPMENT, RELAYS, ETC. COORDINATE LOCATION OF POWER FOR EQUIPMENT SHOWN W/ASSOCIATED CONTRACTORS OF OTHER DISCIPLINES.

4 DUCT SMOKE DETECTORS FOR RTU'S. PROVIDE & INSTALL 1 FOR SUPPLY & 1 FOR RETURN. DETECTOR SHALL BE COMPATIBLE W/FACP. COORDINATE EXACT LOCATIONS IN FIELD.

5 PROVIDE & INSTALL NEMA 1, 30A, 208V, 3 PHASE, SHUNT-TRIP FUSIBLE DISCONNECT SWITCH WITH AUXILIARY CONTACTS TO BE WIRED TO ELEVATOR BATTERY BACKUP. DISCONNECT SWITCH SHALL CONTAIN 30A FUSES. PROVIDE & INSTALL NEMA 1, 30A, 120V, SINGLE PHASE, FUSED DISCONNECT SWITCH W/20A FUSE FOR CAB LIGHTING/POWER.

6 INSTALL NEW FIRE ALARM DEVICE IN SAME LOCATION AS DEVICE WHICH WAS REMOVED. REUSE EXISTING RACEWAY TO FISH WIRES TO DEVICE FROM NEARBY FIRE ALARM LOOP. EXTEND RACEWAY AS NECESSARY TO REACH ACCESSIBLE CEILING SPACE.

7 BUILDING WILL BE OCCUPIED WHILE BEING RENOVATED. THE FIRE ALARM SYSTEM MUST BE FUNCTIONAL AT ALL TIMES. WORK ON THE FIRE ALARM SYSTEM SHOULD BE DONE DURING OFF HOURS, OR DURING TIMES WHEN THERE WILL BE MINIMAL INTERRUPTION TO THE BUILDING. IF NEEDED, A FIRE WATCH SHOULD BE PROVIDED.

8 FAN COIL UNITS SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.

9 VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.

10 PROPOSED CONDUIT PATH FOR FLOOR BOXES, FLOOR MUST BE TRENCHED TO LOCATIONS SHOWN, COORDINATE W/ARCHITECTURAL DRAWINGS. RACEWAY MUST BE CONCEALED.

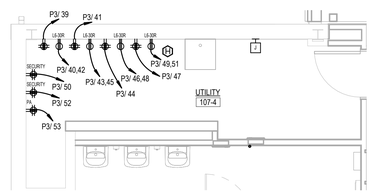
11 INSTALL NEW POWERED DOOR OPENERS AT THE DOOR SHOWN. INSTALL A TOGGLE DISCONNECT SWITCH AT THE MOTOR. INSTALL PUSH PLATE DOOR OPERATORS AT THE LOCATIONS SHOWN, COORDINATE W/ARCHITECT FOR EXACT LOCATIONS. PROVIDE ALL WIRING, CONDUIT, EQUIPMENT NECESSARY FOR A COMPLETE & WORKING INSTALLATION. ANY DEVICES WHICH ARE MOUNTED ON AN EXISTING WALL OR MULLION SHALL HAVE WIREMOLD PAINTED THE SAME COLOR AS THE WALL OR MULLION IT IS INSTALLED ON. POWER FOR CIRCUIT IS ASSUMED FOR A 1/2 HP MOTOR. IF THE MOTOR IS LARGER THE CIRCUIT BREAKER SERVING IT WILL NEED TO BE INCREASED, AS WELL AS THE WIRE SIZE.

12 FURNISH AND INSTALL ELECTRICAL EQUIPMENT. REFER TO ONE-LINE DIAGRAM DRAWING E300-4 FOR NEW WORK REQUIREMENTS.

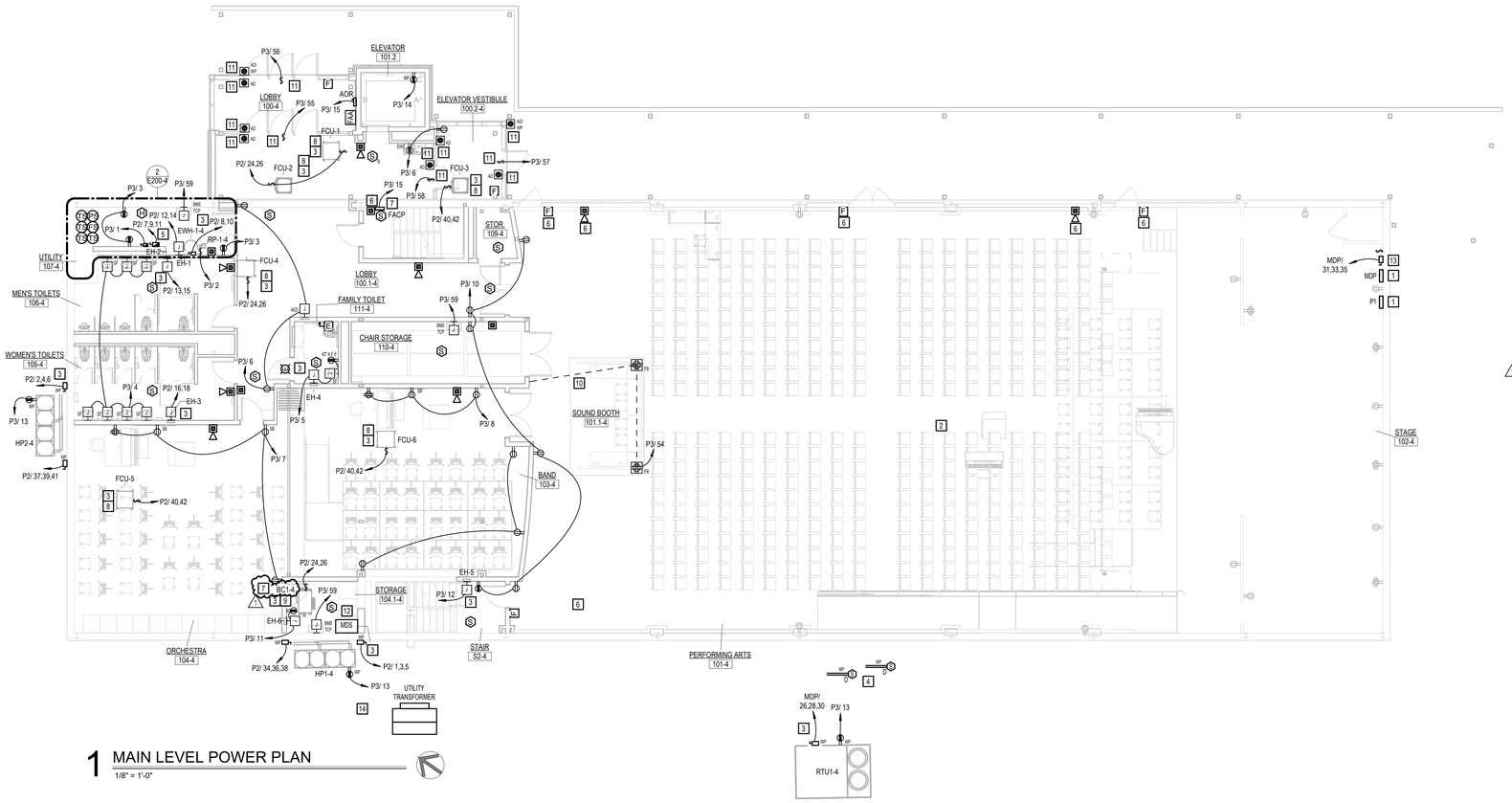
13 INSTALL RELOCATED LIGHTING CONTROL TERMINATION STATION, DISCONNECT SWITCH, WIRING AND CONDUIT TO PANEL/CIRCUIT AS INDICATED.

14 COORDINATE PAD FOR HP'S & PAD FOR UTILITY TRANSFORMER W/MECHANICAL & CIVIL CONTRACTORS. TRANSFORMER IS SHOWN 5' AWAY FROM HP. REFER TO TYPICAL PAD MOUNTED TRANSFORMER & PRECAST CONCRETE TRANSFORMER PAD DETAIL ON E400-4

15 CONDENSATE PUMP FOR BCC'S & WALL MOUNTED FCU'S NEED WIRING/POWER PROVIDED TO THEM. CONDENSATE PUMP POWER SHALL COME FROM THE UNIT IT IS SERVING. DISCONNECT SWITCH WIRING SHALL BE CONNECTED TO THE UNIT SAFETY CONNECTORS. WIRING SHALL BE FIELD SUPPLIED & SHALL BE IN ACCORDANCE W/MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.



2 IT PART PLAN
1/4" = 1'-0"



1 MAIN LEVEL POWER PLAN
1/8" = 1'-0"

KEY PLAN
SCALE: NTS

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 4 - MAIN LEVEL POWER PLAN
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
Scale: As indicated
Drawn By: MTC
Project Number: 22.050

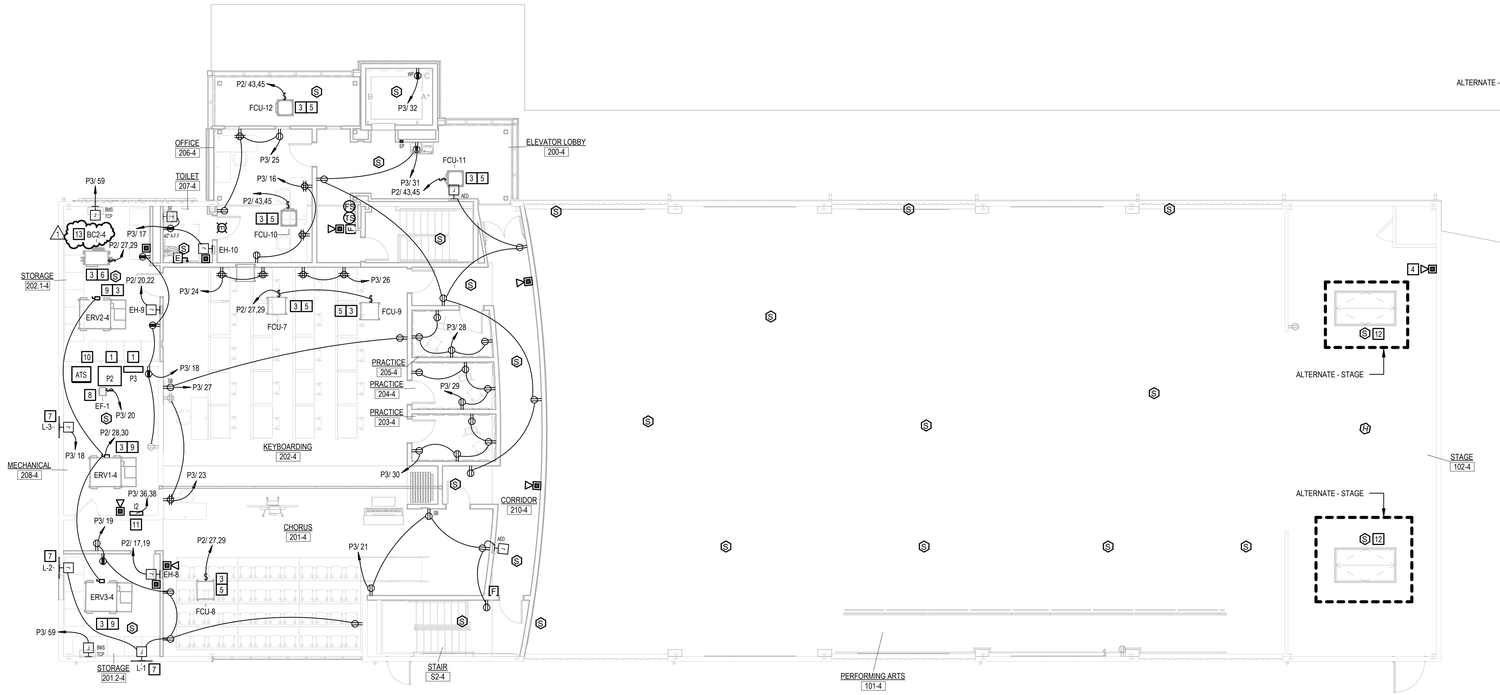
Drawing Number: E200-4

12/16/2025 10:27:43 AM

POWER KEY NOTES

1. FURNISH AND INSTALL ELECTRICAL PANEL AND REWORK EXISTING CIRCUITS TO THIS PANEL, WHICH ARE NOT BEING REMOVED. CONTRACTOR TO MAINTAIN ALL EXISTING ACTIVE BRANCH CIRCUITS. BALANCE LOADS AND INSTALL NEW TYPED PANEL DIRECTORY. REFER TO ONE LINE DIAGRAM DRAWING E300-4 AND PANEL SCHEDULE ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.
2. ALL DEVICES WHICH ARE MOUNTED ON EXISTING WALLS SHALL BE SURFACE MOUNTED DEVICES. THE RACEWAY SERVING THESE SPACES SHALL BE WIREMOLD PAINTED TO MATCH THE WALL. THE RACEWAY SHALL COME FROM THE CEILING & CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. EXPOSED CONDUIT IN FINISHED SPACES IS NOT ACCEPTABLE. COORDINATE W/TECHNOLOGY TO INCLUDE DATA/VOICE JACKS IN WIREMOLD WHERE NECESSARY.
3. EQUIPMENT SHOWN IS CONTROLLED VIA THE BUILDING MANAGEMENT SYSTEM. PROVIDE ALL NECESSARY WIRING BETWEEN THE CONTROLLER, EQUIPMENT, RELAYS, ETC. COORDINATE LOCATION OF POWER FOR EQUIPMENT SHOWN W/ASSOCIATED CONTRACTORS OF OTHER DISCIPLINES.
4. INSTALL NEW FIRE ALARM DEVICE IN SAME LOCATION AS DEVICE WHICH WAS REMOVED. REUSE EXISTING RACEWAY TO FISH WIRES TO DEVICE FROM NEARBY FIRE ALARM LOOP. EXTEND RACEWAY AS NECESSARY TO REACH ACCESSIBLE CEILING SPACE.
5. FAN COIL UNITS SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.
6. VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER SHOWN WILL HAVE A HARD WIRED INTERNAL CONDENSATE PUMP. PROVIDE WIRING FOR PUMP, COORDINATE W/MECHANICAL CONTRACTOR.
7. LOUVER SHOWN HAS A MOTORIZED DAMPER, PROVIDE POWER TO DAMPER FROM NEARBY GENERAL PURPOSE RECEPTACLE CIRCUIT AS SHOWN. COORDINATE W/MECHANICAL CONTRACTOR FOR EXACT LOCATION.
8. EXHAUST FAN SHOWN IS INTERLOCKED W/OCCUPANCY SENSORS FOR ROOMS DENOTED ON E100-4 & E110-4. PROVIDE NECESSARY WIRING/CONTACTS IN ORDER TO ACCOMPLISH. COORDINATE W/MECHANICAL CONTRACTOR FOR EXACT LOCATION.
9. ERV'S SHOWN ARE INTERLOCKED W/ASSOCIATED FAN COIL UNITS. PROVIDE NECESSARY WIRING/CONTACTS IN ORDER TO ACCOMPLISH. COORDINATE W/,MECHANICAL CONTRACTOR FOR EXACT LOCATION.
10. FURNISH AND INSTALL ELECTRICAL EQUIPMENT. REFER TO ONE-LINE DIAGRAM DRAWING E300-4 FOR NEW WORK REQUIREMENTS.
11. FURNISH AND INSTALL ELECTRICAL LIGHTING INVERTER PANEL. REFER TO ONE-LINE DIAGRAM DRAWING E300-4 AND PANEL SCHEDULE ON E500 SERIES DRAWINGS FOR NEW WORK REQUIREMENTS.
12. SMOKE DETECTORS SHOWN ARE FOR ACTIVATION OF THE SMOKE HATCHES. THEY MUST BE INTERCONNECTED WITH THE HATCH & FIRE ALARM SYSTEM TO OPEN ONCE ENOUGH SMOKE IS DETECTED. ANY POWER FOR MOTORIZED DAMPERS SHOULD COME FROM NEAREST GENERAL PURPOSE RECEPTACLE CIRCUIT.
13. CONDENSATE PUMP FOR BCC'S & WALL MOUNTED FCU'S NEED WIRING/POWER PROVIDED TO THEM. CONDENSATE PUMP POWER SHALL COME FROM THE UNIT IT IS SERVING. DISCONNECT SWITCH WIRING SHALL BE CONNECTED TO THE UNIT SAFETY CONNECTORS. WIRING SHALL BE FIELD SUPPLIED & SHALL BE IN ACCORDANCE W/MANUFACTURER'S REQUIREMENTS. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

ALTERNATE - STAGE



1 UPPER LEVEL POWER PLAN
1/8" = 1'-0"

KEY PLAN
SCALE: NTS

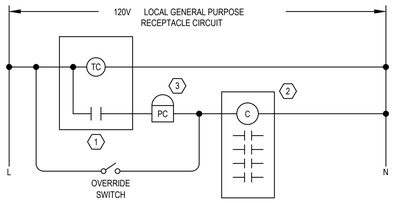
Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 4 - UPPER LEVEL POWER PLAN
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG
Date: AUGUST 12, 2025
Scale: 1/8" = 1'-0"
Drawn By: MTC
Project Number: 22.050
Drawing Number: E210-4

12/16/2025 10:27:45 AM



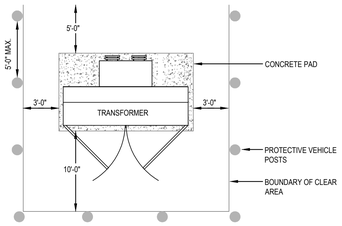
LOCATED ADJACENT TO TIME CLOCK
#POLES: 8
CIRCUIT#: REFER TO ELECTRICAL SITE PLAN SHEET E400

CONTACTOR SCHEDULE

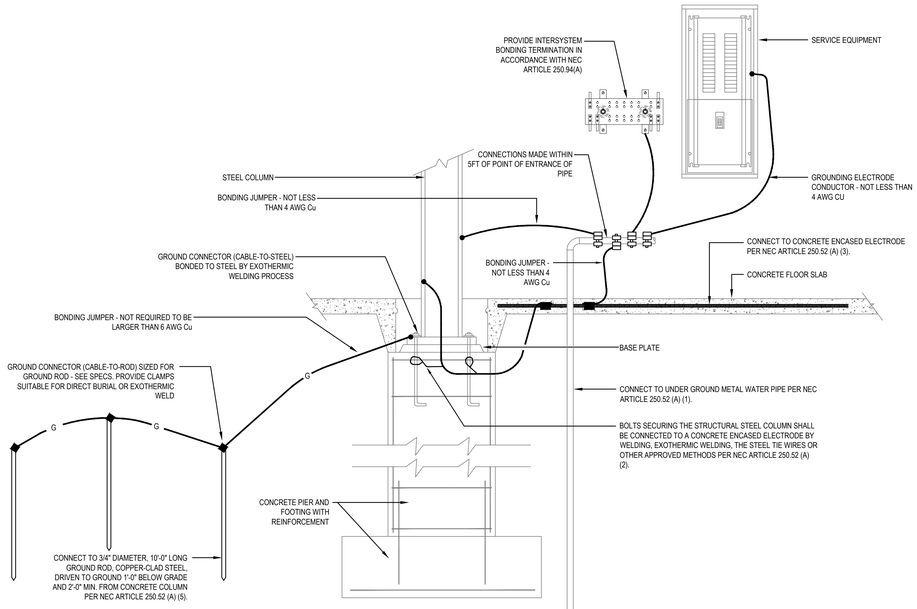
TAG	DESCRIPTION	MODEL NO.	REMARKS
1	DIGITAL PROGRAMMABLE TIME CLOCK 24HR, 7DAY 365DAY, SEASONAL SCHEDULING, 99 ON/OFF POINTS, PERMANENT SCHEDULE RETENTION ON POWER LOSS, POWER OUTAGE BACKUP, AUTOMATIC LEAP YEAR AND DAYLIGHT SAVINGS TIME ADJ., MECHANICALLY HELD CONTACTS, MULTI VOLTAGE INPUT.	TORK DZS200A OR EQUIVALENT INTERMATIC OR SQUARE D	1,2,4
2	CONTACTOR ELECTRICALLY OPERATED, MECHANICALLY HELD, 20A LIGHTING CONTACTOR, CONTROL VOLTAGE AS LISTED, FROM LOCAL GENERAL PURPOSE RECEPTACLE CIRCUIT.	ASCO 917 SERIES WITH 2 WIRE CONTROL OPTION OR EQUIVALENT GE OR SQUARED	
3	PHOTOCELL 1800W, 15A, -40 DEG. TO 140 DEG., SOLID STATE SPST, DRY CONTACT, LIGHT LEVEL RANGE 1.5 TO 10fC WITH ADJUSTMENT, TIME DELAY 15 SEC. MINIMUM.	TORK 2100 SERIES OR EQUIVALENT INTERMATIC OR SQUARE D	3

NOTES:
1. TIMECLOCK SHALL BE PROGRAMMED TO TURN SITE LIGHTING ON AT DUSK (VIA PHOTOCELL) AND OFF WHENEVER THE OWNER WOULD LIKE IT OFF
2. LOCATE TIME CLOCK ADJACENT TO ELECTRICAL PANEL.
3. PHOTOCELL TO BE LOCATED ON SOUTHERN EXPOSURE.
4. PROVIDE BACNET CAPABILITY TO TIE INTO BMS & ACCESS CONTROLS REMOTELY.

1 LIGHTING TIME CLOCK & CONTACTOR DETAIL
SCALE: NONE

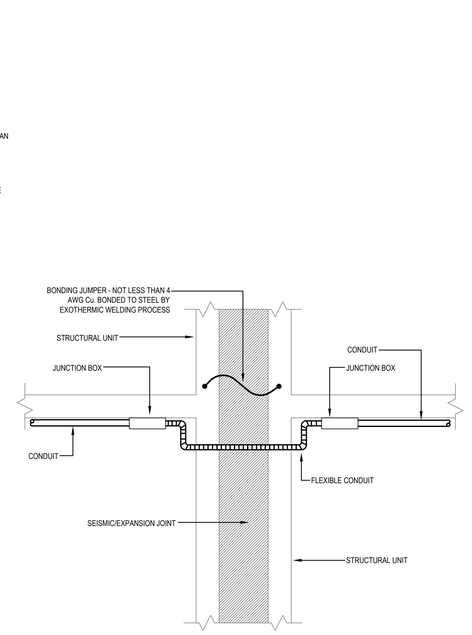


2 TYPICAL PAD MOUNTED TRANSFORMER
SCALE: NONE

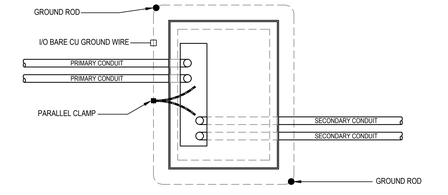


GENERAL NOTES:
1. PROVIDE GROUNDING ELECTRODE SYSTEM PER NEC ARTICLE 250.50. ALL GROUNDING ELECTRODES AS DESCRIBED IN 250.52 (A) (1) THROUGH (A) (7) THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SERVED SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM.

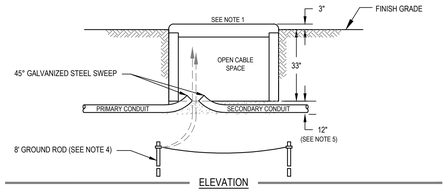
3 TYPICAL GROUNDING DETAIL
SCALE: NONE



4 EXPANSION/SEISMIC JOINT FITTING DETAIL
SCALE: NONE



PLAN VIEW



ELEVATION

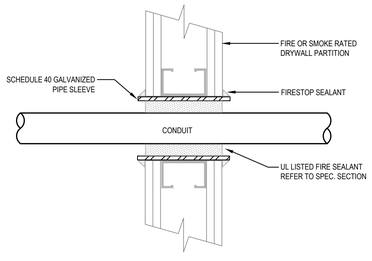
NOTES:
1. 75-300 KVA: INSTALL 76" X 54" X 36" PAD PER SPC P-05, P-06.
   500-1500 KVA: INSTALL 76" X 70" X 36" PAD PER SPC P-07, P-08.
2. PRIMARY CABLE:
   A. INSTALL CABLES IN CONDUIT A MINIMUM OF 30" BELOW GRADE
   B. LOOP CABLES IN CABLE VAULT BEFORE MAKING CONNECTIONS.
3. SECONDARY CABLE:
   LEAVE SLACK FOR FUTURE RECONNECTING TO TRANSFORMERS WITH HIGHER SECONDARY TERMINALS.
4. COPPERWELD GROUND RODS: INSTALL IN TRENCH AND CONNECT A BARE I/O COPPER CONDUCTOR FROM RODS THROUGH PAD OPENING AND EXTENDING 5 FT. ABOVE PAD.
5. THE EXCAVATION FOR THE PAD SHALL BE CARRIED TO A DEPTH OF 12" BELOW THE BOTTOM OF THE PAD WALLS. THE BACKFILL UNDER THE PAD WALLS SHALL BE A CLEAN GRAVEL, FREE OF FOREIGN MATTER AND CONSTRUCTION DEBRIS, AND IN ACCORDANCE WITH CONN D.O.T. SPEC. M.02.06 GRADING "A". BACKFILL SHALL BE PLACED IN 6" LAYERS AND COMPACTED WITH MECHANICAL TAMPERS TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD COMPACTION TESTS, AASHTO T180 OR ASTM D698.

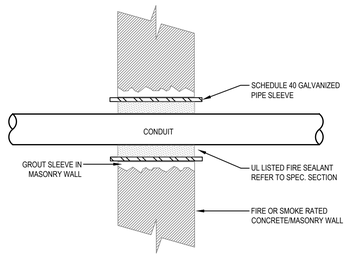
5 PRECAST CONCRETE TRANSFORMER PAD DETAIL
SCALE: NONE

GENERAL NOTES:

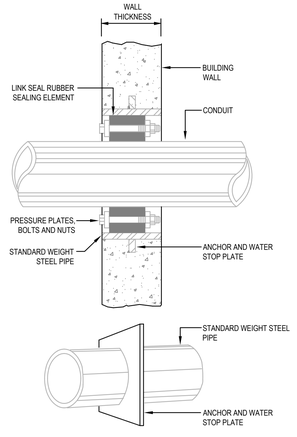
PROVIDE UL LISTED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/ UL1479, ASTM E814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE INSTALLED.

FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL BEING PENETRATED - SEE SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS AND LOCATIONS.

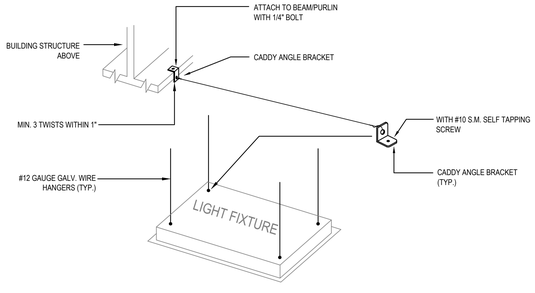




6 WALL PENETRATION W/FIRE-SMOKE SEAL DETAIL
SCALE: NONE



7 WATER-TIGHT WALL SLEEVE
SCALE: NONE



1. ALL LIGHTING FIXTURES SHALL BE SECURED TO THE STRUCTURE BY THE ELECTRICAL CONTRACTOR.
2. FLUSH OR RECESSED LIGHT FIXTURES LESS THAN 56 POUNDS SHALL HAVE 2 - 12 GA. SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
3. FLUSH OR RECESSED LIGHT FIXTURES MORE THAN 56 POUNDS SHALL HAVE 4 - 12 GA. SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
4. SECURE SURFACE MOUNTED LIGHT FIXTURES W/ MINIMUM OF 2 - POSITIVE CLAMPING DEVICES OF 14 GA. MINIMUM STEEL AND W/ 12 GA. WIRE TO BUILDING STRUCTURE.

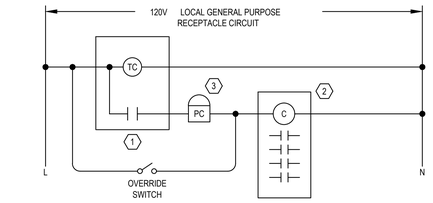
8 TYPICAL LAY-IN GRID LIGHTING FIXTURE SUPPORT/MOUNTING DETAIL
SCALE: NONE

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 4 - DETAILS
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG
Date: AUGUST 12, 2025
Scale: AS NOTED
Drawn By: MTC
Project Number: 22.050
Drawing Number: E400-4



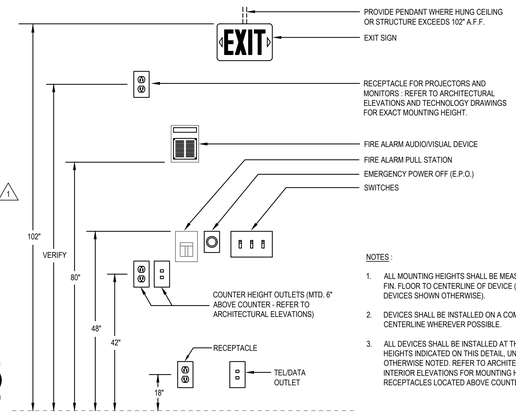
LOCATED ADJACENT TO TIME CLOCK
#POLES: 8
CIRCUIT#: REFER TO ELECTRICAL SITE PLAN SHEET E400

CONTACTOR SCHEDULE

TAG	DESCRIPTION	MODEL NO.	REMARKS
1	DIGITAL PROGRAMMABLE TIME CLOCK 24HR, 7DAY 365DAY, SEASONAL SCHEDULING, 99 ON/OFF POINTS, PERMANENT SCHEDULE RETENTION ON POWER LOSS, POWER OUTAGE BACKUP, AUTOMATIC LEAP YEAR AND DAYLIGHT SAVINGS TIME ADJ., MECHANICALLY HELD CONTACTS, MULTI VOLTAGE INPUT.	TORK D2S200A OR EQUIVALENT INTERMATIC OR SQUARE D	1,2,4
2	CONTACTOR ELECTRICALLY OPERATED, MECHANICALLY HELD, 20A LIGHTING CONTACTOR. CONTROL VOLTAGE AS LISTED, FROM LOCAL GENERAL PURPOSE RECEPTACLE CIRCUIT.	ASCO 917 SERIES WITH 2 WIRE CONTROL OPTION OR EQUIVALENT GE OR SQUARED	
3	PHOTOCELL 1800W, 15A, -40 DEG. TO 140 DEG., SOLID STATE SPST, DRY CONTACT, LIGHT LEVEL RANGE 1.5 TO 10fC WITH ADJUSTMENT, TIME DELAY 15 SEC. MINIMUM	TORK 2100 SERIES OR EQUIVALENT INTERMATIC OR SQUARE D	3

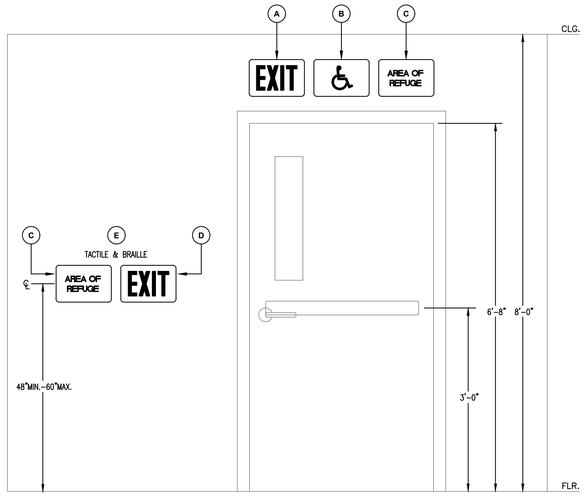
NOTES:
1. TIMECLOCK SHALL BE PROGRAMMED TO TURN SITE LIGHTING ON AT DUSK (VIA PHOTOCELL) AND OFF WHENEVER THE OWNER WOULD LIKE IT OFF
2. LOCATE TIME CLOCK ADJACENT TO ELECTRICAL PANEL.
3. PHOTOCELL TO BE LOCATED ON SOUTHERN EXPOSURE.
4. PROVIDE BACNET CAPABILITY TO TIE INTO BMS & ACCESS CONTROLS REMOTELY.

1 LIGHTING TIME CLOCK & CONTACTOR DETAIL
SCALE: NONE



NOTES :
1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FIN. FLOOR TO CENTERLINE OF DEVICE (EXCEPT FOR DEVICES SHOWN OTHERWISE).
2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
3. ALL DEVICES SHALL BE INSTALLED AT THE MOUNTING HEIGHTS INDICATED ON THIS DETAIL, UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF RECEPTACLES LOCATED ABOVE COUNTERS.

2 TYPICAL DEVICE MOUNTING HEIGHT DETAIL
SCALE: NONE



NOTES IN ACCORDANCE WITH 2022 CONNECTICUT STATE BUILDING CODE:

(A) SECTION 1011.1: WHERE REQUIRED. EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. ACCESS TO EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS IN CASES WHERE THE EXIT OR THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR IS MORE THAN 100 FEET OF THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICH IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN.

SECTION 1011.2: ILLUMINATION. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED.
EXCEPTION: TACTILE SIGNS REQUIRED BY SECTION 1011.3 NEED NOT BE PROVIDED WITH ILLUMINATION.

(B) CT 2022 AMENDMENT
SECTION 1011.1.2 ACCESSIBLE EXITS: WHERE EXIT SIGNS ARE REQUIRED BY SECTION 1011.1 OF THIS CODE, ACCESSIBLE EXIT DOORS AT THE LEVEL OF EXIT DISCHARGE THAT LEAD DIRECTLY TO ACCESSIBLE PATHS OF EXIT DISCHARGE SHALL ADDITIONALLY BE MARKED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SUCH SYMBOL SHALL BE NOT LESS THAN 6 INCHES HIGH AND SHALL BE INCORPORATED INTO THE REQUIRED EXIT SIGN OR SHALL BE LOCATED DIRECTLY ADJACENT TO IT. SUCH SYMBOL SHALL MEET THE REQUIREMENTS OF SECTION 1011.

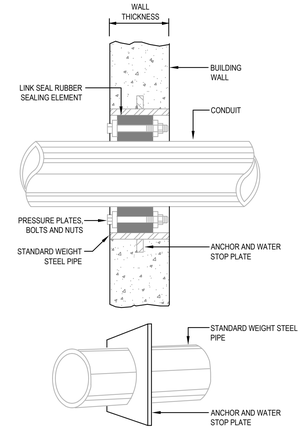
(C) SECTION 1007.6.5: IDENTIFICATION. EACH DOOR PROVIDING ACCESS TO AN AREA OF REFUGE FROM AN ADJACENT FLOOR AREA SHALL BE IDENTIFIED BY A SIGN COMPLYING WITH ICC A117.1, STATING: AREA OF REFUGE AND INCLUDING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. WHERE EXIT SIGN ILLUMINATION IS REQUIRED BY SECTION 1011.2, THE AREA OF REFUGE SIGN SHALL BE ILLUMINATED.

ADDITIONALLY, TACTILE SIGNAGE COMPLYING WITH ICC A117.1 SHALL BE LOCATED AT EACH DOOR TO AN AREA OF REFUGE. (TACTILE AND BRAILLE IS REQUIRED ON TACTILE SIGNAGE. ANSI A117.1-2003. 703.3 AND 703.4).

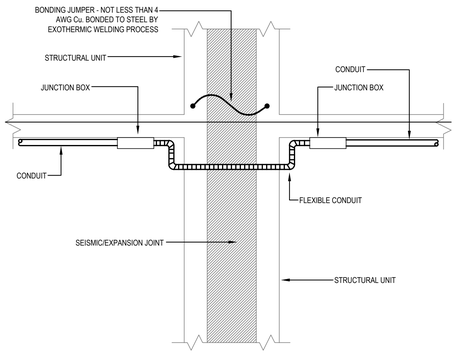
(D) SECTION 1011.3: TACTILE EXIT SIGNS. A TACTILE EXIT SIGN STATING EXIT AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. (TACTILE AND BRAILLE IS REQUIRED ON TACTILE SIGNAGE. ANSI A117.1-2003. 703.3 AND 703.4).

(E) CT 2022 AMENDMENT
SECTION 1110.4: INTERIOR SIGNAGE. INTERIOR SIGNS DESIGNATE PERMANENT ROOMS AND SPACES SHALL BE RAISED TEXT CHARACTERS AND BRAILLE, DESIGNED AND LOCATED IN ACCORDANCE WITH ICC/ANSI. A117.1-2003. MOUNTING LOCATION FOR SIGNAGE SHALL BE SUCH THAT ANY PERSON APPROACHING THE SIGNAGE WILL NOT ENCOUNTER PROTRUDING OBJECTS,, OR STAND WITHIN THE SWING OF ANY DOOR. (STAIR INFORMATION SIGNAGE IS REQUIRED IN TACTILE AND BRAILLE. ANSI A117.1-2003. 703.3 AND 703.4)

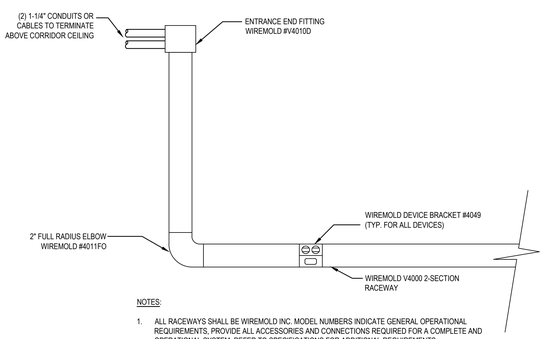
3 EXIT SIGN MOUNTING DETAIL
SCALE: NONE



4 WATER-TIGHT WALL SLEEVE
SCALE: NONE



5 EXPANSION/SEISMIC JOINT FITTING DETAIL
SCALE: NONE



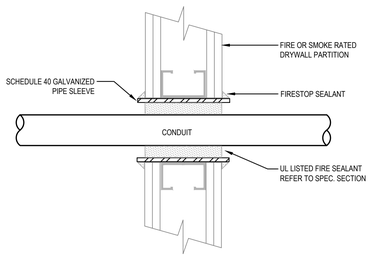
NOTES:
1. ALL RACEWAYS SHALL BE WIREMOLD INC. MODEL NUMBERS INDICATE GENERAL OPERATIONAL REQUIREMENTS, PROVIDE ALL ACCESSORIES AND CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. REFER TO PLANS FOR QUANTITY OF DEVICES AND LENGTH OF RACEWAY.
3. COORDINATE WITH ARCHITECT FOR MOUNTING HEIGHT AND LOCATION PRIOR TO INSTALLATION.
4. CONTRACTOR SHALL WIRE (12) SIMPLEX RECEPTACLES OR (6) DUPLEX RECEPTACLES MAX PER 120V-20A CIRCUIT.

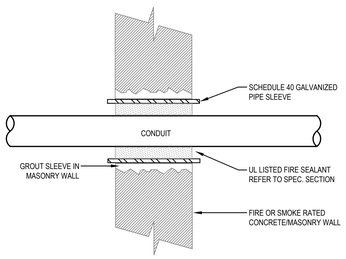
6 TYPICAL MULTI SERVICE RACEWAY DETAIL
SCALE: NONE

GENERAL NOTES:

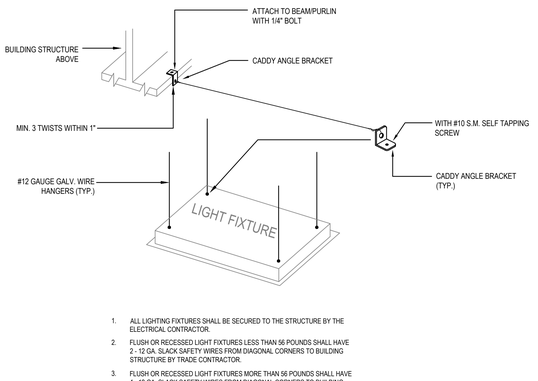
PROVIDE UL LISTED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/ UL1479, ASTM E814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE INSTALLED.

FIRE STOPPING SHALL HAVE A RATING EQUAL TO OR GREATER THAN THE WALL BEING PENETRATED - SEE SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS AND LOCATIONS.



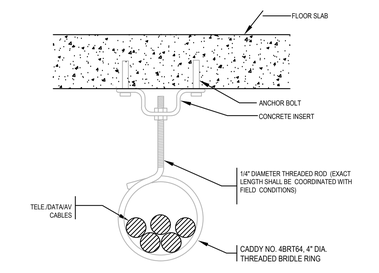


7 WALL PENETRATION W/FIRE-SMOKE SEAL DETAIL
SCALE: NONE

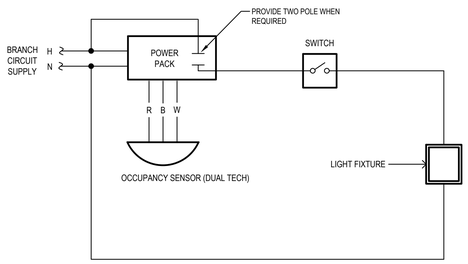


1. ALL LIGHTING FIXTURES SHALL BE SECURED TO THE STRUCTURE BY THE ELECTRICAL CONTRACTOR.
2. FLUSH OR RECESSED LIGHT FIXTURES LESS THAN 56 POUNDS SHALL HAVE 2 - 12 GA. SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
3. FLUSH OR RECESSED LIGHT FIXTURES MORE THAN 56 POUNDS SHALL HAVE 4 - 12 GA. SLACK SAFETY WIRES FROM DIAGONAL CORNERS TO BUILDING STRUCTURE BY TRADE CONTRACTOR.
4. SECURE SURFACE MOUNTED LIGHT FIXTURES W/ MINIMUM OF 2 - POSITIVE CLAMPING DEVICES OF 14 GA. MINIMUM STEEL AND W/ 12 GA. WIRE TO BUILDING STRUCTURE.

8 TYPICAL LAY-IN GRID LIGHTING FIXTURE SUPPORT/MOUNTING DETAIL
SCALE: NONE



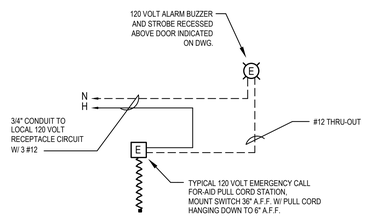
9 CABLE RING DETAIL
SCALE: NONE



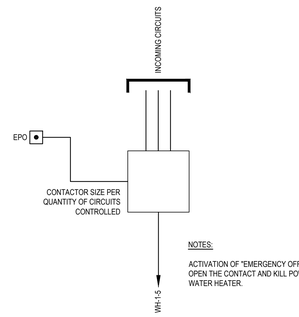
NOTE:
1. TYPICAL CEILING OCCUPANCY SENSOR FOR CORRIDORS AND ROOMS.
2. EXACT QUANTITY OF DEVICES MAY DIFFER FROM THIS DETAIL CONTRACTOR SHALL PROVIDE ACTUAL QUANTITY REQUIRED. REFER TO LIGHTING FLOOR PLAN.

10 CEILING OCCUPANCY SENSOR DETAIL
SCALE: NONE

OC

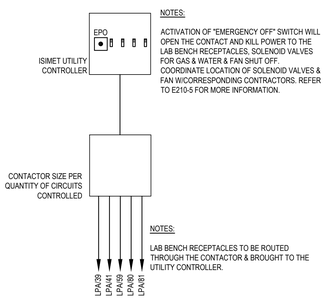


11 HANDICAPPED CALL-FOR-AID SYSTEM
SCALE: NONE



NOTES:
ACTIVATION OF "EMERGENCY OFF" SWITCH WILL OPEN THE CONTACT AND KILL POWER TO THE WATER HEATER.

12 GAS WATER HEATER E.P.O. WIRING DIAGRAM
SCALE: NONE



NOTES:
ACTIVATION OF "EMERGENCY OFF" SWITCH WILL OPEN THE CONTACT AND KILL POWER TO THE LAB BENCH RECEPTACLES, SOLENOID VALVES FOR GAS & WATER & FAN SHUT OFF. COORDINATE LOCATION OF SOLENOID VALVES & FAN W/CORRESPONDING CONTRACTORS. REFER TO E210-5 FOR MORE INFORMATION.

NOTES:
LAB BENCH RECEPTACLES TO BE ROUTED THROUGH THE CONTACTOR & BROUGHT TO THE UTILITY CONTROLLER.

13 BIOMEDICAL LAB UTC E.P.O. WIRING DIAGRAM
SCALE: NONE

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

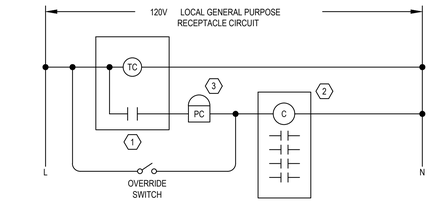
SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 5 - DETAILS
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG

Date: AUGUST 12, 2025
Scale: AS NOTED
Drawn By: MTC
Project Number: 22.050

Drawing Number: E400-5



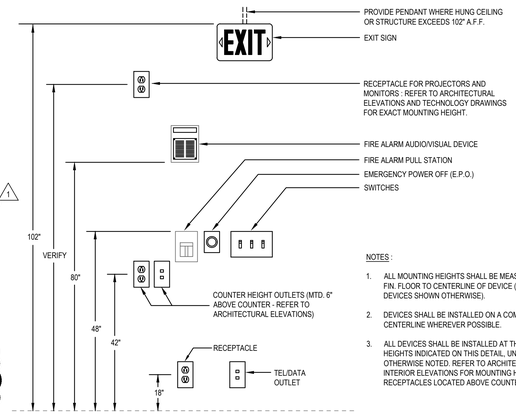
LOCATED ADJACENT TO TIME CLOCK
#POLES: 8
CIRCUIT#: REFER TO ELECTRICAL SITE PLAN SHEET E400

CONTACTOR SCHEDULE

TAG	DESCRIPTION	MODEL NO.	REMARKS
1	DIGITAL PROGRAMMABLE TIME CLOCK 24HR, 7DAY 365DAY, SEASONAL SCHEDULING, 99 ON/OFF POINTS, PERMANENT SCHEDULE RETENTION ON POWER LOSS, POWER OUTAGE BACKUP, AUTOMATIC LEAP YEAR AND DAYLIGHT SAVINGS TIME ADJ., MECHANICALLY HELD CONTACTS, MULTI VOLTAGE INPUT.	TORK D2S200A OR EQUIVALENT INTERMATIC OR SQUARE D	1,2,4
2	CONTACTOR ELECTRICALLY OPERATED, MECHANICALLY HELD, 20A LIGHTING CONTACTOR. CONTROL VOLTAGE AS LISTED, FROM LOCAL GENERAL PURPOSE RECEPTACLE CIRCUIT.	ASCO 917 SERIES WITH 2 WIRE CONTROL OPTION OR EQUIVALENT GE OR SQUARED	
3	PHOTOCELL 1800W, 15A, -40 DEG. TO 140 DEG., SOLID STATE SPST, DRY CONTACT, LIGHT LEVEL RANGE 1.5 TO 10fC WITH ADJUSTMENT, TIME DELAY 15 SEC. MINIMUM	TORK 2100 SERIES OR EQUIVALENT INTERMATIC OR SQUARE D	3

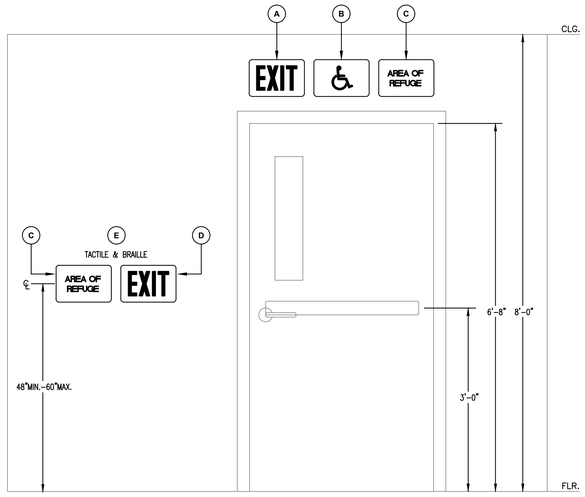
NOTES:
1. TIMECLOCK SHALL BE PROGRAMMED TO TURN SITE LIGHTING ON AT DUSK (VIA PHOTOCELL) AND OFF WHENEVER THE OWNER WOULD LIKE IT OFF
2. LOCATE TIME CLOCK ADJACENT TO ELECTRICAL PANEL.
3. PHOTOCELL TO BE LOCATED ON SOUTHERN EXPOSURE.
4. PROVIDE BACNET CAPABILITY TO TIE INTO BMS & ACCESS CONTROLS REMOTELY.

1 LIGHTING TIME CLOCK & CONTACTOR DETAIL
SCALE: NONE



NOTES :
1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FIN. FLOOR TO CENTERLINE OF DEVICE (EXCEPT FOR DEVICES SHOWN OTHERWISE).
2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
3. ALL DEVICES SHALL BE INSTALLED AT THE MOUNTING HEIGHTS INDICATED ON THIS DETAIL, UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF RECEPTACLES LOCATED ABOVE COUNTERS.

2 TYPICAL DEVICE MOUNTING HEIGHT DETAIL
SCALE: NONE



NOTES IN ACCORDANCE WITH 2022 CONNECTICUT STATE BUILDING CODE:

(A) SECTION 1011.1: WHERE REQUIRED. EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. ACCESS TO EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS IN CASES WHERE THE EXIT OR THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR IS MORE THAN 100 FEET OF THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICH IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN.

SECTION 1011.2: ILLUMINATION. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED.
EXCEPTION: TACTILE SIGNS REQUIRED BY SECTION 1011.3 NEED NOT BE PROVIDED WITH ILLUMINATION.

(B) CT 2022 AMENDMENT
SECTION 1011.1.2 ACCESSIBLE EXITS: WHERE EXIT SIGNS ARE REQUIRED BY SECTION 1011.1 OF THIS CODE, ACCESSIBLE EXIT DOORS AT THE LEVEL OF EXIT DISCHARGE THAT LEAD DIRECTLY TO ACCESSIBLE PATHS OF EXIT DISCHARGE SHALL ADDITIONALLY BE MARKED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SUCH SYMBOL SHALL BE NOT LESS THAN 6 INCHES HIGH AND SHALL BE INCORPORATED INTO THE REQUIRED EXIT SIGN OR SHALL BE LOCATED DIRECTLY ADJACENT TO IT. SUCH SYMBOL SHALL MEET THE REQUIREMENTS OF SECTION 1011.

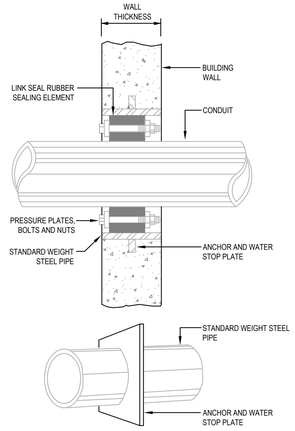
(C) SECTION 1007.6.5: IDENTIFICATION. EACH DOOR PROVIDING ACCESS TO AN AREA OF REFUGE FROM AN ADJACENT FLOOR AREA SHALL BE IDENTIFIED BY A SIGN COMPLYING WITH ICC A117.1, STATING: AREA OF REFUGE AND INCLUDING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. WHERE EXIT SIGN ILLUMINATION IS REQUIRED BY SECTION 1011.2, THE AREA OF REFUGE SIGN SHALL BE ILLUMINATED.

ADDITIONALLY, TACTILE SIGNAGE COMPLYING WITH ICC A117.1 SHALL BE LOCATED AT EACH DOOR TO AN AREA OF REFUGE. (TACTILE AND BRAILLE IS REQUIRED ON TACTILE SIGNAGE. ANSI A117.1-2003. 703.3 AND 703.4).

(D) SECTION 1011.3: TACTILE EXIT SIGNS. A TACTILE EXIT SIGN STATING EXIT AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. (TACTILE AND BRAILLE IS REQUIRED ON TACTILE SIGNAGE. ANSI A117.1-2003. 703.3 AND 703.4).

(E) CT 2022 AMENDMENT
SECTION 1110.4: INTERIOR SIGNAGE. INTERIOR SIGNS DESIGNATE PERMANENT ROOMS AND SPACES SHALL BE RAISED TEXT CHARACTERS AND BRAILLE, DESIGNED AND LOCATED IN ACCORDANCE WITH ICC/ANSI. A117.1-2003. MOUNTING LOCATION FOR SIGNAGE SHALL BE SUCH THAT ANY PERSON APPROACHING THE SIGNAGE WILL NOT ENCOUNTER PROTRUDING OBJECTS., OR STAND WITHIN THE SWING OF ANY DOOR. (STAIR INFORMATION SIGNAGE IS REQUIRED IN TACTILE AND BRAILLE. ANSI A117.1-2003. 703.3 AND 703.4)

3 EXIT SIGN MOUNTING DETAIL
SCALE: NONE



4 WATER-TIGHT WALL SLEEVE
SCALE: NONE

5 EXPANSION/SEISMIC JOINT FITTING DETAIL
SCALE: NONE

NOTES:
1. ALL RACEWAYS SHALL BE WIREMOLD INC. MODEL NUMBERS INDICATE GENERAL OPERATIONAL REQUIREMENTS. PROVIDE ALL ACCESSORIES AND CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
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4. CONTRACTOR SHALL WIRE (12) SIMPLEX RECEPTACLES OR (6) DUPLEX RECEPTACLES MAX PER 120V-20A CIRCUIT.

6 TYPICAL MULTI SERVICE RACEWAY DETAIL
SCALE: NONE

GENERAL NOTES:

PROVIDE UL LISTED FIRE/SMOKE PENETRATION ASSEMBLY IN ACCORDANCE W/ UL1479, ASTM E814 REQUIREMENTS FOR WALL TYPE, RATING, PIPE SIZE INSTALLED.

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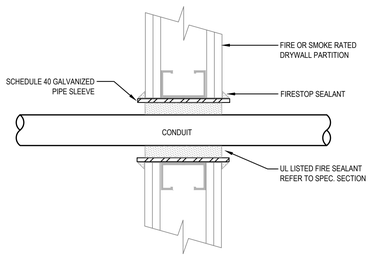

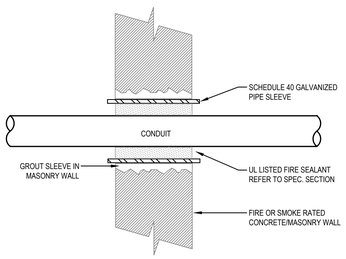

7 WALL PENETRATION W/FIRE-SMOKE SEAL DETAIL
SCALE: NONE

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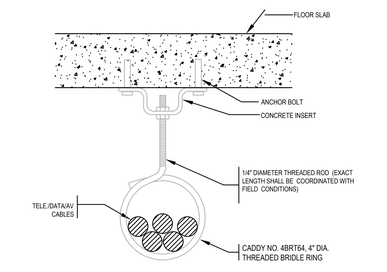
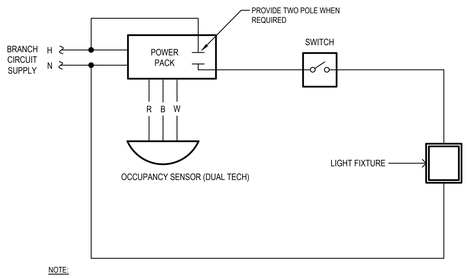
SCALE: NONE



9 CABLE RING DETAIL
SCALE: NONE



NOTE:
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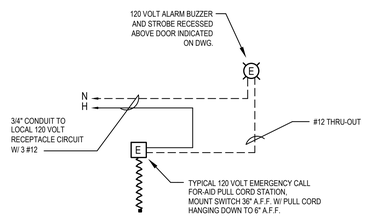
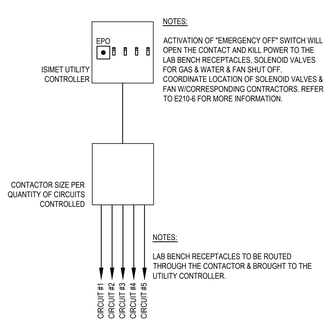
2. EXACT QUANTITY OF DEVICES MAY DIFFER FROM THIS DETAIL CONTRACTOR SHALL PROVIDE ACTUAL QUANTITY REQUIRED. REFER TO LIGHTING FLOOR PLAN.

10 CEILING OCCUPANCY SENSOR DETAIL
SCALE: NONE

OC



11 HANDICAPPED CALL-FOR-AID SYSTEM
SCALE: NONE



12 LAB UTC CLASSROOM E.P.O. WIRING DIAGRAM
SCALE: NONE

Project Title:
ALTERATIONS TO:
ACES at Chase
565 Chase Parkway
Waterbury, Connecticut 06708

SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
1	Bulletin #1	12/16/25	MTC

Drawing Title: BUILDING 6 - DETAILS
Project Phase: ISSUED FOR BID - 11/03/2025
State Project Number: #244-0044 MAG
Date: AUGUST 12, 2025
Scale: AS NOTED
Drawn By: MTC
Project Number: 22.050
Drawing Number: E400-6