DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 2 TO PROJECT NO. 45682

CONSTRUCTION, HVAC, PLUMBING, AND ELECTRICAL WORK
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NEW YORK

July 15, 2025

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

GENERAL REQUIREMENTS - CONSTRUCTION

1. SECTION 014339 MOCKUP REQUIREMENTS: Discard all previously issued versions of this Section and substitute the accompanying Section (pages 014339 – 1 thru 014339 – 4) noted "Addendum No. 2".

GENERAL REQUIREMENTS - HVAC

2. SECTION 014339 MOCKUP REQUIREMENTS: Discard all previously issued versions of this Section and substitute the accompanying Section (pages 014339 – 1 thru 014339 – 4) noted "Addendum No. 2".

GENERAL REQUIREMENTS - PLUMBING

3. SECTION 014339 MOCKUP REQUIREMENTS: Discard all previously issued versions of this Section and substitute the accompanying Section (pages 014339 – 1 thru 014339 – 4) noted "Addendum No. 2".

GENERAL REQUIREMENTS – ELECTRICAL

4. SECTION 014339 MOCKUP REQUIREMENTS: Discard all previously issued versions of this Section and substitute the accompanying Section (pages 014339 – 1 thru 014339 – 4) noted "Addendum No. 2".

CONSTRUCTION WORK SPECIFICATIONS

5. SECTION 095753 METAL PLANK SECURITY CEILING SYSTEM: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 095753 – 1 thru 095753 – 7) noted "Addendum No. 2".

6. SECTION 312513 EROSION AND SEDIMENT CONTROL: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 312513 – 1 thru 312513 – 4) noted "Addendum No. 2".

HVAC WORK SPECIFICATIONS

7. SECTION 230923 DIRECT DIGITAL BUILDING CONTROL SYSTEM: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 230923 – 1 thru 230923 – 40) noted "Addendum No. 2".

8. SECTION 233301 SECURITY TYPE DUCTWORK ACCESSORIES: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 233301 – 1 thru 233301 – 7) noted "Addendum No. 2".

CONSTRUCTION WORK DRAWINGS

9. Revised Drawings:
    a. Drawings listed below, noted "07/11/2025 ADDENDUM #2" accompany this Addendum and supersede the same numbered originally issued drawings.

Architectural Drawings

A-1107	A-2107	A-3107	A-3506
A-1110	A-2110	A-3110	A-3605
A-1111	A-2111	A-3111	A-4401
A-1112	A-2112	A-3112	A-4402
A-1113	A-2113	A-3113	A-4507
A-1304	A-2304	A-3304	A-4509
A-1605	A-2605	A-3401	

Structural Drawing

S-4702

HVAC WORK DRAWINGS

10. Revised Drawings:
    a. Drawings listed below, noted "07/11/2025 ADDENDUM NO. 2" accompany this Addendum and supersede the same numbered originally issued drawings.

Mechanical Drawings

M-1101	M-2101	M-3101	M-4500
M-1600	M-2600	M-3600	

PLUMBING WORK DRAWINGS

11. Revised Drawings:
    a. Drawings listed below, noted "07/11/2025 ADDENDUM NO. 2" accompany this Addendum and supersede the same numbered originally issued drawings.

Plumbing Drawings		
P-1001	P-2001	P-3001
P-1101	P-2101	P-3101
Fire Protection Drawings		
F-1100	F-2100	F-3100

ELECTRICAL WORK DRAWINGS

12. Revised Drawings:
    a. Drawings listed below, noted "07/11/2025 ADDENDUM 2" accompany this Addendum and supersede the same numbered originally issued drawings.

Electrical Drawings		
E-1201	E-2201	E-3201
E-1302	E-2302	E-3302

CONSTRUCTION WORK APPENDIX

13. SCHEDULE OF SUBMITTALS (SOS): Discard the Document bound in the Project Manual and substitute the accompanying Document (pages 1 thru 19) noted “SCHEDULE OF SUBMITTALS, Project No. 45682-C”.

END OF ADDENDUM

Brady Sherlock, P.E.
Director, Division of Design
Design & Construction

SECTION 014339

MOCKUP REQUIREMENTS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. 054000 Cold-Formed Metal Framing

B. 055000 Metal Fabrications Broadscope for shower panels (SSP-1) and trim.

C. 066000 Solid Plastic Fabrications for polycarbonate shower panels.

D. 079200 Joint Sealers for Sealants.

E. 081119 Stainless Steel Doors and Frames for doors and frames.

F. 087100 Finish Hardware for door hardware.

G. 092116 Gypsum Board Systems for ceiling cladding above shower ceiling.

H. 095753 Metal Plank Security System

I. 096723 Epoxy Resin Flooring for epoxy resin floors.

J. 099101 Construction Painting for painting.

K. 099659 High Build Glazed Coatings

L. 102813 Toilet and Bath Accessories for shower/bathroom accessories.

M. 102814 Electric Hand Dryers

N. 211313 Sprinkler Systems

O. 220577 Floor and Area Drains

P. 224200 Plumbing Fixtures

Q. 224223 Showers

R. 224600 Security Plumbing Fixtures

S. 233301 Security Type Ductwork Accessories

T. 265100 Interior Lighting Fixtures

U. 283105 Modification to Fire Alarm System

1.02 SUBMITTALS

A. Quality Control Submittals
   1. Mockup Plan: Copy of proposed plan.

1.03 DEFINITIONS

A. Mockups (General): Full-size physical assemblies that are constructed on-site. Mockups are constructed to verify selections made under sample submittals; to demonstrate aesthetic effects and, where indicated, qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerances.
   1. Mockups are not Samples.
   2. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.

B. Room Mockups: Mockups of typical interior spaces complete with wall, floor, and ceiling finishes, doors, windows, millwork, casework, specialties, furnishings and equipment, and lighting.

1.04 QUALITY ASSURANCE

A. Mockup Plan: Detailed, dimensioned plans and elevations showing mockup size, and items and materials that will be included in proposed mockup.

B. Pre-Construction Conference: Prior to the construction of the mockup, a conference will be called by the Director's Representative at the Site for the purpose of reviewing the requirements, and intent of mockup. The conference shall be attended by the Director's Representative, Contractor, and person supervising this phase of the Work

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION

3.01 INSTALLATION

A. Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish as directed.

   1. Build mockups in location and of size and profile indicated or, or as directed by the Director's Representative.

2. Notify the Director's Representative a minimum of 14 days in advance of dates and times when mockups will be constructed and able to be inspected.
3. Employ supervisory personnel to oversee mockup construction. Employ same workers that will be employed during the construction of Project.
4. Demonstrate the proposed range of aesthetic effects and workmanship.
5. Commence the Work after mockup has been inspected and approved in writing by Director's Representative.
6. The mockup will establish the standard of quality of workmanship by which the Work will be judged.
7. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work. Failure to maintain the mockup, until directed, will be cause for rejection of the Work.

B. Mockup Types: Construct mockup in accordance with approved shop drawings, project manual, and Contract Drawings, using exact materials and methods approved for the Project, including required accessories.

1. Resident Bedroom Mockup: Construct one (1) resident room mockup incorporating required materials and assemblies, finished according to requirements. Provide the required lighting and additional lighting where required to enable the Director's Representative to evaluate the quality of the Work. Resident Room Mockup includes walls, metal plank ceilings, high build glazed coating flooring and base, light fixtures, fire alarm detector, room door/frame/hardware, one coat of paint, sealants, room accessories, and furniture. The following are not required as part of the resident room mockup:

a. Electrical Power
b. Functional Electrical System
c. Functional Fire Alarm / Sprinkle System
d. Functional HVAC System

Note: Formal acceptance of individual mock-ups acceptable, however will not absolve the contractors of responsibility for overall system integration.

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D. 079200 Joint Sealers for Sealants.

E. 081119 Stainless Steel Doors and Frames for doors and frames.

F. 087100 Finish Hardware for door hardware.

G. 092116 Gypsum Board Systems for ceiling cladding above shower ceiling.

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M. 102814 Electric Hand Dryers

N. 211313 Sprinkler Systems

O. 220577 Floor and Area Drains

P. 224200 Plumbing Fixtures

Q. 224223 Showers

R. 224600 Security Plumbing Fixtures

S. 233301 Security Type Ductwork Accessories

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END OF SECTION

SECTION 095753

METAL PLANK SECURITY CEILING SYSTEM

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. This specification covers the material, installation, and related requirements for the Metal Plank Ceiling System – including all necessary Acoustical Insulation, Suspension Systems, and Fasteners.

1.02 RELATED DOCUMENTS/SECTIONS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions.

B. Division 1 Specification sections apply to work of this Section.

C. Section 014339 Mockup Requirements for metal plank ceiling systems included as part of room mockups.

1.03 REFERENCES

A. GENERAL
   1. Comply with applicable requirements of the following, except where more stringent requirements are indicated by building codes.

B. ASTM (American Society for Testing and Materials)
   1. ASTM C636, Recommended Practice for Installation of Metal Suspension System for Acoustical Tile and Lay-In Panels.

C. CISCA Ceiling Systems Installation Handbook.

1.04 DESIGN/PERFORMANCE REQUIREMENTS

A. All components of the Metal Plank Security Ceiling System shall be provided by one (1) Manufacturer to ensure single source responsibility and quality control.

1.05 SUBMITTALS

A. Submission must be made within ten (10) working days of the General Contract Award to avoid project delay.
   1. After award of contract, standard Shop Drawings shall be submitted and approved prior to fabrication of the Metal Planks or their structural supports.

B. Product Data: Submit Manufacturer's:
   1. Product data
   2. Installation Instructions

C. Shop Drawings: Submit Shop Drawings for fabrication and installation of Metal Plank Security Ceiling System.

D. Samples:
1. A 2’ x 2’ assembled sample of each Ceiling Plank and its Suspension System shall be submitted for approval.

E. Closeout Submittals
1. Provide Manufacturer’s Cleaning and Maintenance Instructions
2. Warranty Documents
3. Manufacturer’s certification of compliance with the acoustical performance required as described in this specification.

1.06 QUALITY ASSURANCE

A. Manufacturers’ Qualifications: Firm with manufacturing and delivery capacity required for the project, shall have successfully completed at least ten (10) projects within the past five (5) years, utilizing systems, materials, and techniques as herein specified.

B. Fabricator must own and operate its own manufacturing facilities for all metal components. Systems consisting of components from a variety of Manufacturers will not be considered or accepted.

C. Manufacturer/Fabricator must own and operate its own painting and finishing facility to assure single source responsibility and quality control.

D. Installer’s Qualifications: Firm with not less than three (3) years of successful experience in the installation of systems similar to those required by this project and acceptable to the Manufacturer of the System.

1.07 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver Panels and all System Hardware to the job site in Manufacturer’s original packaging, unopened and undamaged, just prior to installation.

B. Avoid warpage and damage by storing Panels and all System Hardware above floor, flat and in a dry, humidity and temperature controlled interior location.

C. Follow Manufacturer’s instructions and exercise care during off loading, handling, and installation to avoid damage and marring of finishes.

1.08 SEQUENCING

A. Substitute Products: Alternate proposals for substitute products will not be accepted unless approval is issued in addenda.

B. Contract Execution: Submittals shall be completed and approved prior to award of subcontract for system components.

C. Manufacturer's Production Schedule: Sub-contract for the work of this section shall be planned to allow sufficient time for Manufacturer's production and delivery scheduling.

1.09 WARRANTY

A. Furnish Manufacturer's:
   1. Warranty that materials furnished will perform as specified for a period of not less than one (1) year from date of material shipment when installed in accordance with Manufacturer's recommendations.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Type: MPCS-2 Ceiling System: Basis of Design: Cel•Line® Metal Plank Acoustical Security Ceiling System as manufactured by Gordon, Inc. For all inquiries contact Gordon, Inc., 5023 Hazel Jones Road, Bossier City, LA 71111, (800) 747-8954.
   1. The Basis of Design Manufacturer shall not be construed as closing specifications to other prospective Manufacturers, but rather as establishing a level of quality in a metal system. Other systems may be submitted for approval, as provided for in the specifications. Companies desiring to submit a proposal shall submit all descriptive information of the system proposed including photographs and Shop Drawings of at least three (3) projects similar in detail and scope.

B. Other Manufacturer's
   1. Metalworks SecureLock Plus System as manufactured by Armstrong.
   2. BarrierDek Metal Plank Ceiling System as manufactured by Trussbilt.

C. Type: MPCS-3 Ceiling System: Basis of Design: Cel•Line® Metal Plank Security Ceiling System as manufactured by Gordon, Inc. For all inquiries contact Gordon, Inc., 5023 Hazel Jones Road, Bossier City, LA 71111, (800) 747-8954.
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D. Other Manufacturer's
   1. Metalworks SecureLock Plus System as manufactured by Armstrong.

2.02 PRODUCT CONSTRUCTION

A. MPCS-2 Product Components:
   1. Metal Plank Ceilings: The Metal Plank System is to be fabricated and installed in accordance with the Manufacturer's approved Shop Drawings. Metal Planks shall be factory formed from 12 Gauge galvannealed (minimum A60) steel as

indicated on the Shop Drawings. Planks shall be formed 24" wide in lengths of up to 12'-0" as shown on Reflected Ceiling Plans. Vertical legs of Metal Planks are to be factory formed so that Panels overlap tightly to provide positive self-alignment with adjacent Panels.

2. Metal Plank Suspension: Perimeter Angles shall be factory fabricated from 12 Gauge factory finished galvannealed (minimum A60) steel. Angles shall be factory pre-punched to receive Fasteners. Angles shall be fastened to all abutting vertical surfaces through the use of drilled in anchors or other approved Fasteners at a minimum of 16'' O.C. Panels shall be securely fastened to all Angles through the use of concealed Hold Down Angle mechanically fastened to abutting vertical surfaces.
   a. Acoustical Material: The inside surface of all Ceiling Panels shall be covered with Class A fiberglass Insulation wrapped in black Fire-Retardant Poly. Insulation shall be of sufficient thickness and density to provide the acoustical requirements as outlined herein.
   b. Air: All air units are to be system compatible and sized so as to fit into and trim off full module opening in Ceiling System and shall be independently supported from above by installing trade.
   c. Access Panels: All security Access Panels to be installed in the Metal Security Ceiling System shall be supplied by the Metal Security Ceiling System Manufacturer in quantities indicated on the Architectural Drawings or as approved by the Architect. Access Panels shall have the following characteristics:
      i. Size: 14'' x 14'', which fits an opening of 12'' x 12".
      ii. Panel: 12 Gauge steel.
      iii. Finish: Factory white polyester powder coated paint finish.
   d. Fasteners: All exposed Fasteners shall be tamper-proof and shall be a minimum No. 12 size. Refer to drawings for fasteners securing the Wall Molding to the wall.

B. MPCS-2 Product Performance:
   1. Accessibility: Suspended Metal Plank Ceiling Systems shall be designed and installed to resist access to the plenum area.
   2. Acoustical Requirements: The Ceiling Systems shall provide a Noise Reduction Coefficient (NRC) of no less than 0.80 when tested in accordance with ASTM C423-84a in an E-400 mounting as defined in ASTM E795-83.

C. MPCS- 3 Product Components:
   1. Metal Plank Ceilings: The Metal Plank System is to be fabricated and installed in accordance with the Manufacturer's approved Shop Drawings. Metal Planks shall be factory formed from 14 Gauge -non-perforated- stainless steel as indicated on the Shop Drawings. Planks shall be formed 24" wide in lengths of up to 12'-0" as shown on Reflected Ceiling Plans. Vertical legs of Metal Planks are to be factory formed so that Panels overlap tightly to provide positive self-alignment with adjacent Panels.
   2. Metal Plank Suspension: Perimeter Angles shall be factory fabricated from 14 Gauge factory finished stainless steel. Angles shall be factory pre-punched to receive Fasteners. Angles shall be fastened to all abutting vertical surfaces through the use of drilled in anchors or other approved Fasteners at a minimum

of 16'' O.C. Panels shall be securely fastened to all Angles through the use of concealed Hold Down Angle mechanically fastened to abutting vertical surfaces.

a. Air: All air units are to be system compatible and sized so as to fit into and trim off full module opening in Ceiling System and shall be independently supported from above by installing trade.

b. Fasteners: All exposed Fasteners shall be tamper-proof and shall be a minimum No. 12 size. Refer to drawings for fasteners securing the Wall Molding to the wall.

D. MPCS-3 Product Performance:

1. Accessibility: Suspended Metal Plank Ceiling Systems shall be designed and installed to resist access to the plenum area.

2.03 FINISHES

A. MPCS-2 Metal Planks and Related Suspension:

1. The Metal Planks shall have a factory-applied white super-durable polyester powder coating finish. Panels shall be coated to a minimum thickness of 2.0 mils on the finish side.
2. Prior to painting, galvannealed steel surfaces shall be cleaned, rinsed, and properly treated to receive the powder coating finish.
3. Finish to achieve the following performance characteristics:
   a. Salt Spray per ASTM B-117 – 1,000 hours PASS at less than 1/8" from score.
   b. Humidity Resistance per ASTM D-2247 – 1,000 hours PASS at less than 1/8" from score.

B. MPCS-3 Metal Planks:

1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
2. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
   a. Run grain of directional finishes with long dimension of each piece.
   b. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
   c. Directional Satin Finish: No. 4.

2.04 FABRICATION

A. The Ceiling Contractor shall verify all dimensions, elevations, and job site conditions before fabrication commences.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examination of Surfaces: Installer must examine conditions under which work is to be performed and must notify Contractor in writing of unsatisfactory conditions.

B. Verify that field measurements and block-out dimensions are as shown on Shop Drawings.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the Manufacturer to achieving the best result for the project conditions.

3.03 INSTALLATION

A. General: Comply with Manufacturer's printed instructions, governing regulations for Seismic Codes, Local Building Codes, and the Ceiling & Interior Systems Construction Association Standards applicable to work.

B. Metal Security Ceiling System shall be installed in accordance with ASTM C636 and CISCA guidelines, in layouts as reflected on the approved Shop Drawings, all in compliance with the Manufacturer's Installation Instructions.
   1. The Suspension System and Wall Moldings shall be installed plumb and level.
   2. Start installation of Metal Plank at location as shown on Reflected Ceiling Plans. Slide Metal Plank along Perimeter Angle to create a ship lapped joint between adjoining Panels. Ensure self-aligning legs overlap each other. Side stitch Panels together along ship lapped Panel joints with self-tapping fasteners per approved Shop Drawings or at a minimum of 24" O.C.
   3. In order to achieve secure and tightly engaged Panel joint details, Panels must be installed progressively from the start Panel through the closure Panel. Except for the openings for light, air, fire protection, or access shown on the Reflected Ceiling Plans, all openings or cut outs required in the Ceiling Planks shall be field cut by the trades requiring the openings.

3.04 CLEANING

A. Follow Manufacturer's cleaning instructions for specified finish.

3.05 PROTECTION

A. Procedures: Care should be taken during the remainder of construction to protect the Metal Security Ceiling System from damage.

B. Damage to Finished Work: Finished units of the Metal Security Ceiling System shall be without damage. Damage shall be repaired by the Contractor at the expense of the party damaging the material, as in accordance with the contract requirements.

END OF SECTION

SECTION 312513

EROSION AND SEDIMENT CONTROL

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Earthwork: Section 310000.

1.02 REFERENCES

A. Erosion and Sediment Control Guidelines: Conform to the latest edition of "NEW YORK STANDARDS and SPECIFICATIONS for EROSION and SEDIMENT CONTROL" by NYS Department of Environmental Conservation DOW (i.e., Bluebook). Refer to these guidelines for construction and maintenance of all items (Temporary and Permanent Structural, Vegetative and Biotechnical) included in the Storm Water Pollution and Prevention Plan (SWPPP).

1.03 RESPONSIBILITY

A. During construction conduct operations in such a manner as to prevent or reduce to a minimum any damage to any water body from pollution by debris, sediment, chemical or other foreign material, or from the manipulation of equipment and/or materials in or near a stream or ditch flowing directly to a stream. Any water which has been used for wash purposes or other similar operations which become polluted with sewage, silt, cement, concentrated chlorine, oil, fuels, lubricants, bitumens, or other impurities shall not be discharged into any water body.

B. In the event of conflict between these specifications and the regulation of other Federal, State, or local jurisdictions, the more restrictive regulations shall apply.

1.04 DESCRIPTION

A. The Work shall consist of furnishing, installing, inspecting, maintaining, and removing soil and erosion control measures as shown on the contract documents or as ordered by the Director's Representative during the life of the contract to provide erosion and sediment control.

B. Temporary structural measures provide erosion control protection to a critical area for an interim period. A critical area is any disturbed, denuded slope subject to erosion. These are used during construction to prevent offsite sedimentation. Temporary structural measures shall include check dams, construction road stabilization, stabilized construction entrance, dust control, earth dike, level spreader, perimeter dike/swale, pipe slope drain, portable sediment tank, rock dam, sediment basin, sediment traps, silt fence, storm drain inlet protection, straw/hay bale dike, access waterway crossing, storm drain diversion, temporary swale, turbidity curtain, water bars or other erosion control devices or methods as required.

C. Weekly inspections will be completed by the Director's Representative. Comply with and correct all deficiencies found as a result of these inspections. At the end of the construction season when soil disturbance activities will be finalized or suspended until the following spring, the frequency of the inspections may be reduced. If soil disturbance is completely suspended and the site is properly stabilized, a minimum of monthly inspections must be maintained. The stabilization activities must be completed before snow cover or frozen ground. If vegetation is required, seeding, planting and/or sodding must be scheduled to avoid die-off from fall frosts and allow for proper germination/establishment. Weekly inspections must resume no later than March 15.

1.05 DEFINITIONS – TEMPORARY STRUCTURAL MEASURES

A. Stabilized Construction Entrance: A stabilized pad of aggregate underlain with geo-textile where traffic enters a construction site to reduce or eliminate tracking of sediment to public roads.

B. Dust Control: Prevent surface and air movement of dust from disturbed soil surfaces.

C. Silt Fence: A barrier of geo-textile fabric installed on contours across the slope to intercept runoff by reducing velocity. Replace after 1 year.

D. Storm Drain Inlet Protection: A semi-permeable barrier installed around storm inlets to prevent sediment from entering a storm drainage system.

1.06 DEFINITIONS – VEGETATIVE MATERIALS MEASURES

A. Mulches: Hay, straw, wood cellulose, fiber mats, flexible growth medium and other materials approved by the Director's Representative.

B. Protecting Vegetation: Protecting trees, shrubs, ground cover and other vegetation from damage.

C. Temporary Seeding: Erosion control protection to a critical area for an interim period. A critical area is any disturbed, denuded slope subject to erosion.

D. Permanent Seeding: Grasses established and combined with shrubs to provide perennial vegetative cover on disturbed, denuded, slopes subject to erosion.

E. Sod: Used where a quick vegetative cover is required.

F. Topsoil: Placed before permanent seeding or sod is installed.

PART 2 PRODUCTS

2.01 MATERIALS

A. Plant Materials for biotechnical slope protection: Locate stands of specified species and obtain approval to harvest material from these stands or obtain from managed production beds that are maintained for commercial distribution. Install all plant materials within 8 hours of cutting or provide proper storage.
   1. Shrub willows: “Streamco” purpleosier willow, and “Bankers” dwarf willow.
   2. Redosier Dogwood

B. Seeding: Permanent see Section 329219.

2.02 COMPANIES-TEMPORARY STRUCTURAL

SILT FENCE

A. Mirafi, 365 South Holland Drive, Pendergrass, Ga, 30567, (888) 795-0808, www.mirafi.com.

EROSION CONTROL BLANKET

B. North American Green, 14649 Highway 41 North, Evansville, IN 47725, (800) 772-2040, www.nagreen.com.

PART 3 EXECUTION

3.01 WORK AREAS

A. The Director’s Representative has the authority to limit the surface area of erodible earth exposed by earthwork operations and to direct the Contractor to provide immediate temporary or permanent erosion measures to minimize damage to property and contamination of watercourses and water impoundments. Under no circumstances will the area of erodible earth material exposed at one time exceed 50,000 sq. ft. The Director’s Representative may increase or decrease this area of erodible earth material exposed at one time as determined by their analysis of project, weather and other conditions. The Director’s Representative may limit the area of clearing and grubbing and earthwork operations in progress commensurate with the Contractor’s demonstrated capability in protecting erodible earth surfaces with temporary, permanent, vegetative or biotechnical erosion control measures.

B. Schedule the work so as to minimize the time that earth areas will be exposed to erosive conditions. Provide temporary structural measures immediately to prevent any soil erosion.

C. Provide temporary seeding on disturbed earth or soil stockpiles exposed for more than 7 days or for any temporary shutdown of construction. In spring, summer or early fall apply rye grass at a rate of 1 lb/ 1000 sq.ft. In late fall or early spring, apply certified Aroostook Rye at a rate of 2.5 lbs./ 1000 sq. ft. Apply hay or

straw at a rate of 2 bales/ 1000 sq. ft. or wood fiber hydromulch at the manufacturer's recommended rate. Hay or straw shall be anchored.

D. Coordinate the use of permanent controls or finish materials shown with the temporary erosion measures.

E. All erosion and sediment control devices must be maintained in working order until the site is stabilized. All preventative and remedial maintenance work, including clean out, repair, replacement, re-grading, re-seeding, or re-mulching, must be performed immediately.

F. After final stabilization has been achieved temporary sediment and erosion controls must be removed. Areas disturbed during removal must be stabilized immediately.

END OF SECTION

SECTION 230923

DIRECT DIGITAL BUILDING CONTROL SYSTEM

PART 1 GENERAL

1.01 OVERVIEW

A. The intent of this specification is to provide a peer-to-peer, networked, stand-alone, distributed control system by companies in the HVAC control field.

B. BACnet communication protocols will be used as the primary communication network for communications between multi-BAS/EMS vendors systems in a non-proprietary manner. Project implementation, as specified, requires transferring, receiving and controlling information that resides in a JCI Metasys BAS Control System.

C. BACnet communications protocol will be used as the communication network between JCI Metasys BAS/EMS Vendor Terminal Equipment Controllers (TECs) and secondary network management devices, and between network management devices and future “smart devices and sensors”, as they become available. Secondary communications data protocol shall operate on a peer-to-peer open protocol communication network. Minimum system speed shall be 76k baud.

D. Mechanical contractor to coordinate with owner’s BAS vendor (Johnson Controls) to integrate proposed equipment and controls with existing campus wide infrastructure.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Basic Electrical Materials and Methods for Direct Digital Building Control System: Section 260502.

B. Ductwork Accessories: Section 233300.

1.03 REFERENCES

A.	ASHRAE Standard 135 - 1995	(1995; Publication pending) BACnet - A Data Communication Protocol for Building Automation and Control Networks
B.	ASHRAE Standard 114 - 1986	(1986; to be re-named as Guideline 13P) Recommended practices guide for verification of end-to-end accuracy in Energy Management and Control Systems (EMCS)
C.	NFPA 70	(1994) National Electric Code

D.	UL 916	(1984; Rev thru Dec 1992) Energy Management Equipment
E.	UL UUKL 864	(1991); Smoke Control Equipment

1.04 ABBREVIATIONS AND ACRONYMS

CSIP	Control System Interface Panel
BAS	Building Automation System
DCP	Distributed Control Processors
DDC	Direct Digital Control
EEPROM	Electrically Erasable Programmable Read Only Memory
EMS	Energy Management System
EPROM	Erasable Programmable Read Only Memory
FAIP	Fire Alarm Interface Panel
FTT	Free Topology Transceiver
FSCS	Fire Fighter's Smoke Control System
GDU	Graphic Display Unit
HOA	Hand-Off-Automatic
OS	Operating System
PCP	Digital Plant Control Processors
POS	Primary Operator Station
POT	Portable Operators Terminal
RAP	Remote Access Panel
SCAP	Status and Command Annunciator Panel
TEC	Terminal Equipment Controllers
TP	Time Programs
VAV	Variable Air Volume

1.05 SYSTEM DESCRIPTION

A. The system shall operate as an integrated Direct Digital Building Control System (DDC).
   1. PROVIDE NEWDDC systems including associated equipment and accessories. Provide each control system complete, and operating as specified. Manufacturer's products, including design, materials, fabrication, assembly, erection, examination, inspection, and testing shall be in accordance with ASHRAE Standard 114 - 1986, ASME B31.1 and NFPA 70, except as modified herein or indicated otherwise.
   2. Provide the DDC systems to maintain stable temperature control and all other conditions as indicated. The end-to-end accuracy of the system, including temperature sensor error, wiring error, A/D conversion, and display, shall be 1 degree F.
   3. Provide either a DDC system compatible with the existing system.
      a. If providing a system compatible with an existing system, upgrade the workstation software with the manufacturers' latest software version that supports routers or gateways for interoperable BAS/EMS vendor communications.
      b. The existing DDC systems was manufactured by Johnson Controls.

4. Changes in the status of monitored points are detected by the microprocessor based Primary Operators Station (POS) utilizing a primary data communication peer bus and microprocessor based distributed control processors (DCPs) located throughout the facility.
5. Secondary networks managed by the DCPs may be employed to monitor status terminal equipment controllers (TECs).
6. This system provides overall monitoring and control of all HVAC control functions for all analog and digital (binary, on/off, open/close) input control signals to microprocessor based digital controllers. The digital controllers perform all of the control logic, analog output and digital output signals to the HVAC field equipment.
7. The HVAC Work Contractor shall integrate the Direct Digital Building Control Work System and the Combustion Control System.

B. This system will have interface ports to allow connection to a terminal, portable computer, and a central site computer utilizing a LonTalk, BACnet, Arcnet, or Ethernet communication protocol. BAS/EMS equipment will provide day to day control of HVAC systems, allowing system operators to enable and disable equipment, change set points, change operating schedules, receive trends and alarms, while dynamically uploading and downloading control programs.

1.06 DESIGN REQUIREMENTS

A. The system shall be designed by the engineering staff of the Company producing the system or the engineering staff of a Company that specializes in the design of Direct Digital Building Control Systems.

1.07 SUBMITTAL

A. Waiver of Submittal: The "Waiver of Certain Submittal Requirements" in Section 013300 does not apply to this Section.

B. Submittal Package: Submit the shop drawings, product data, and quality control submittal specified below at the same time as a package.
1. Certification of interoperability is required for each LonMark device submitted for the project.

C. Shop Drawings:
1. Provide a system architecture drawing that diagrammatically shows all DCPs, their locations, how they connect to the overall communication riser, and the specified HVAC systems they each serve. The system architecture wiring layout must match specific site requirements.
2. Sketches of all graphics.
3. Graphic penetration tree showing all graphics and all points.
4. Composite wiring and/or schematic diagrams of the complete system as proposed to be installed (standard diagrams will not be acceptable).
   a. Include wiring diagrams showing interconnection with other Contractors systems.
5. Scaled floor plan and elevation drawings showing location of all major components associated with the system.

6. Scaled drawings of each primary operators station (POS) showing layout of, and indicating the function of each switch, button, lamp, and accessory.
   a. Show front view and plan view of primary operators station console, including overall dimensions, and detail of each console section.
   b. Show scale drawing (plan view and elevation) of each primary operators station console layout in its site location.
7. Scaled drawings of the status and command annunciator panel (SCAP) showing layout of, and indicating the function of each switch, button, lamp, and accessory.
8. Scaled drawings of each distributed control processor (DCP) showing layout of, and indicating the function of each module and accessory.
9. Scaled drawings of the control system interface panel (CSIP).
10. Scaled drawings of the fire fighter smoke control panel showing layout of, and indicating the function of each annunciator module, switch module, and accessory.

D. Product Data:
   1. Catalog sheets, specifications and installation instructions.
   2. Bill of materials.
   3. Detailed description of system operation.
   4. Point description, program list, and sequences.
   5. Data from the Company producing the system, proving that:
      a. The system is UL listed.

E. Quality Control Submittal:
   1. Installer's Qualifications Data:
      a. Name of each person who will be performing the Work and their employer's name, business address and telephone number.
      b. Names and addresses of 3 similar projects that each person has worked on during the past 3 years.
   2. Company Field Advisor Data: Include:
      a. Name, business address and telephone number of Company Field Advisor secured for the required services.
      b. Certified statement from the Company listing the qualifications of the Company Field Advisor.
      c. Services and each product for which authorization is given by the Company, listed specifically for this project.

F. Contract Closeout Submittal:
   1. System acceptance test report.
   2. Certificates:
      a. Affidavit, signed by the Company Field Advisor and notarized, certifying that the system meets the contract requirements and is operating properly.
   3. Operation and Maintenance Data: Deliver 2 copies, covering the installed products, to the Director's Representative. Include:
      a. Operation and maintenance data for each product installed in system.

b. Original licensed versions of all software loaded into the system, with disks and manuals.

c. Complete point to point wiring diagrams of entire system as installed. Identify all conductors and show all terminations and splices. (Identification shall correspond to markers installed on each conductor.)

d. Name, address, and telephone number of nearest fully equipped service organization.

4. Provide 2 hard copy back-up disks and CD-ROM backup of all software programs and configurations as the system exists at final acceptance.

a. Deliver one set of back-up disks to the Directors Representative for turnover to the facility.

b. Deliver one set of back-up disks and the CD-ROM to:

Office of General Services
Facilities Services Unit
Service Team Leader
34th Floor, Corning Tower
Albany, NY 12242

c. Upon closeout with the first year, send updated disks and CD-ROM to the above listed personnel.

5. Provide all revisions and/or upgrades made to the system software during the one year guarantee warranty period, at no additional cost to the State.

1.08 QUALITY ASSURANCE

A. Equipment Qualifications For Products Other Than Those Specified:

1. At the time of submission provide written notice to the Director of the intent to propose an “or equal” for products other than those specified. Make the “or equal” submission in a timely manner to allow the Director sufficient time to review the proposed product, perform inspections and witness test demonstrations.

2. If products other than those specified are proposed for use furnish the name, address, and telephone numbers of at least 5 comparable installations that can prove the proposed products have performed satisfactorily for 3 years. Certify in writing that the owners of the 5 comparable installations will allow inspection of their installation by the Director's Representative and the Company Field Advisor.

a. Make arrangements with the owners of 2 installations (selected by the Director) for inspection of the installations by the Director's Representative. Also obtain the services of the Company Field Advisor for the proposed products to be present. Notify the Director a minimum of 3 weeks prior to the availability of the installations for the inspection, and provide at least one alternative date for each inspection.

b. Only references from the actual owner or owner’s representative (Security Supervisor, Maintenance Supervisor, etc.) will be accepted. References from dealers, system installers or others, who are not the actual owners of the proposed products, are not acceptable.

1) Verify the accuracy of all references submitted prior to submission and certify in writing that the accuracy of the information has been confirmed.

3. The product manufacturer shall have test facilities available that can demonstrate that the proposed products meet the contract requirements.
   a. Make arrangements with the test facility for the Director's Representative to witness test demonstrations. Also obtain the services of the Company Field Advisor for the proposed product to be present at the test facility. Notify the Director a minimum of 3 weeks prior to the availability of the test facility, and provide at least one alternative date for the testing.
4. Provide written certification from the manufacturer that the proposed products are compatible for use with all other equipment proposed for use for this system and meet all contract requirements.

B. UL Listing: The system shall be UL listed for Energy Management UL 916.

C. Qualifications: The persons installing the Work of this Section and their Supervisor shall be personally experienced in building control system work and shall have been regularly employed by a Company installing direct digital building control systems for a minimum of 3 years.
1. For LonMark System Architectures: BAS/EMS vendors shall be certified in LonMark system installation.

D. Test Facility: The Company producing the system shall have test facilities available which can demonstrate that the proposed system meets contract requirements.

E. Company Field Advisor: Secure the services of a Company Field Advisor for a minimum of 200 working hours for the following:
1. Render advice regarding installation and final adjustment of the system.
2. Assist in initial programming of the system.
3. Render advice on the suitability of each monitor and control device for its particular application.
4. Witness final system test and then certify with an affidavit that the system is installed in accordance with the contract documents and is operating properly.
5. Train facility maintenance personnel in operation, programming and routine maintenance of the system.
   a. Provide the services of competent instructors to instruct designated personnel in the adjustment, operation and maintenance, including pertinent safety requirements, of the equipment and system specified. The training shall be oriented toward the installed system rather than being a general (canned) training course. Each instructor shall be thoroughly familiar with all aspects of the subject matter they are to teach. The number of man-days of instruction furnished shall be as specified below. All equipment and material required for classroom training shall be provided.
   b. Provide a minimum of one complete computer (desktop or color laptop model) for every two trainees during the entire training

period. The computers shall be linked as to provide real-time ability to all trainees to monitor the site's systems controlled by the EMS.

c. For each trainee (minimum of 8) provide workbooks, worksheets, sample problems and other printed matter to serve as illustrative reference material. Unless deemed unnecessary by OGS, Contractor shall include copies of all overheads used in the training either separately or as part of said printed matter. Contractor shall provide all overhead projectors, computer LCD panels, video players or projectors, projection screens, hands-on materials, etc. as required for the training.

d. Submit for OGS review and approval, at least four weeks in advance of each phase of the training, the following:
   1) A detailed proposed outline of training, including timing.
   2) All printed materials, visual aids and hands-on material.
   3) All overheads (transparencies or computerized)
   4) All other training aids.
   5) Qualifications of all proposed training personnel.

e. Training Program: A training day is defined as 8 hours of instruction including two 15-minute breaks and excluding lunch time.
   1) For a period of 3 days prior to the acceptance test period at a time mutually agreeable between the Contractor and the State. Operating personnel will be trained in the functional operations of the installed system, the procedures employed for system operation and the maintenance of DDC equipment.
      a) The first 2 days of training shall include:
         (1) General System Architecture.
         (2) Operation of Computer and Peripherals.
         (3) Command Line Mnemonics.
         (4) Report Generation.
         (5) Operation Control Functions.
         (6) Graphics Generation.
         (7) Input Function and Identification.
         (8) Logging ON and OFF.
         (9) Point Naming Convention.
         (10) Point Logs.
         (11) Trending.
         (12) Alarms.
         (13) Executing Commands.
      b) The third day of training shall include:
         (1) General equipment layout.
         (2) Troubleshooting of DDC components.
         (3) Preventive Maintenance of DDC components.
         (4) Sensor maintenance and calibration.
         (5) Hand-held Terminal operation.

c) Three neatly bound vinyl notebooks shall be provided containing a summary of each topic discussed during the three phases of training.

f. The training room shall be clean, well-lit, well ventilated and isolated from noise (including HVAC noise) and other distractions. The Contractor shall arrange, via delamping, covering fixtures or by light switches, for there to be adequate contrast lighting to take notes and fend off drowsiness.

g. Instructor shall employ an LCD panel, video projector or other suitable device to project large images of the EMS software and/or other training images.

h. Printed training materials shall be tailored to the task at hand and shall be well illustrated. Materials shall take students through the steps of learning the EMS and its software and shall provide sample exercises for the trainees to perform on the computers.

i. Training must steer clear of jargon and other confusing terminology and focus instead on learning how to use the system. Specific jargon may be addressed after the trainees have demonstrated a basic understanding of system operation.

j. Training shall involve actual field-type equipment using a training demonstration package that simulates real-time temperatures, settings, alarms, etc. Training shall also spend substantial time observing the site's actual system, include point logs, graphics, and alarms. In addition, a brief field visit shall be included to familiarize trainees with the equipment installed at their site.

k. Training must include quizzes, tests, and exercises that compel trainees to demonstrate understanding of the system's most important concepts. These concepts shall include, but not be limited to, the elements of a monitoring checklist developed by the site.

l. The overall training approach shall be interactive and encourage students to discuss concepts, ask questions of the instructor and share experiences among one another.

1.09 MAINTENANCE

A. Service Availability: A fully equipped service organization capable of guaranteeing response time within 8 hours to service call shall be available 24 hours a day, 7 days a week to service the completed Work.

B. Spare Parts:
1. 10 percent spare of each type temperature sensor.
2. 10 percent spare of each type pressure sensor.
3. 10 percent spare of each type relay.
4. 10 percent spare of each size valve.
5. 10 percent spare of each type I/O board.
6. Printer paper (2 cases, 3200 sheets per case for fan fold style printer).
7. Four ribbons for printers.
8. Two sets, per printer, ink jet print cartridges.

C. Test Instrument: VAV box calibration instrument.
   1. Turn over the calibration instrument to the Balancing Work Contractor, thru the Director's Representative.
   2. Upon completion of Balancing Work, the Balancing Work Contractor will turn the instrument over to the Director's Representative, which shall remain the property of the State.

PART 2 PRODUCTS

2.01 MATERIALS

A. General:
   1. Control diagrams shown on the drawings, in general, indicate the equipment required for the control sequences specified. Variations in the selection of temperature control equipment, which will produce the required control sequences may be submitted for approval.
   2. All equipment shall be the standard product of one manufacturer, unless otherwise specified.
   3. Components and system capacity parameters specified are minimum and shall be increased as required by the Company producing the system to enable the system to perform the functions specified and indicated on the drawings.

B. Standard utility grade power will be available for operation of the system. If power conditioning is required for proper operation of the system, all equipment and labor required to provide conditioned power shall be provided as part of the system.

2.02 PRIMARY OPERATORS STATION (POS)

A. Three Primary Operators Stations Required: Locate one in Mechanical Room 126 for each building.

B. Computer based, with keyboards, mouse, color monitors, and printers.
   1. The DDC System shall be equipped with ports and communication cards (and space for cards supplied by others) to support other systems' (by other Contractors) communication format and protocols such that their information and operating functions may be accessed, displayed, and operated at the POS. The systems are noted in PART 3 under POINT DESCRIPTION, PROGRAM LIST, AND SEQUENCES.

C. Computers:
   1. IBM-PC Intel processor (compatible, full 64 bit), 3 gigahertz minimum operating speed, PCI buss minimum of 16 gigabyte RAM, 500.0 gigabyte hard disk drive, 40X CD-ROM drive, device drivers compatible with operating system, 4 USB ports, 72 hour battery backed real time clock to maintain operations in the event of power outage.
   2. Software for accessory cards compatible with selected operating system.
   3. Computer shall contain network certified interfaces and drives for the Arcnet, BACnet, or Ethernet networks.

D. Operating System: The operating system shall be Microsoft Windows 11.

E. Keyboards: Keyboards with 101 key layout will include full upper/lower case ASCII keyset, a numeric keypad, dedicated cursor control keypad and a minimum of 30 programmable function keys.
1. The POS shall provide for total keyboard-less operation via a mouse as the primary operator interface.

F. Monitors: 20 inch LED color monitor shall support 256 colors, have a low reflectance flat screen, a 25 line by 80 character display, front access contrast control and a minimum of .26 mm dot pitch and 1280x1080 non interlaced pixel resolution at 75 Hz.

2.03 PORTABLE OPERATORS TERMINAL (POT)

A. For operator readout of system variables, override control and adjustment of control parameters at DCPs and TECs.

B. Features:
1. Portable, plug directly into individual DCPs and TECs.
2. Portable PC complete with the following:
   a. Full keyboard, pointing device, 14.1 inch minimum color display.
   b. Power:
      1) Computer-Integrated AC power adapter input voltage 100-240 Vac, 50/60 Hz (Universal).
      2) Main Battery - Removable, rechargeable Lithium-ion (Li-ion) battery pack.
      3) Backup Battery – Li-ion battery provides power for special memory features, internal real time clock and calendar.
      4) Intelligent power supply - detects low battery charge and displays the time remaining.
      5) Automatic Power Off - saves battery power by automatically turning off the display, hard disk and system when they have not been accessed for a set length of time.
      6) Provide one battery charger and one extra battery pack.
   c. Storage Capacity:
      1) Hard disk: 1,000 GB minimum.
   d. Operating System:
      1) Windows 11, also, configuration programs to allow changing of configuration options and set preferences and a Maxtime/Advanced Power Management to monitor battery charge and determine the system's power needs and automatically configures the computer for maximum power savings. Access is to be via self prompting menu selection, with access to all levels of programming protected by 2 levels of user controlled passwords.

e. Documentation:
   1) Users Guide.
   2) Microsoft Windows 11 booklet.
   3) Online documentation.

f. Carry Case:
   1) Provide hard-side, sturdy fabric or leather carrying case.

3. Connection of a POT to a DCP or TEC shall not interrupt nor interfere with normal network operation in any way, prevent alarms from being transmitted, or preclude remote initiated commands and system modification. Provide proper interface cable(s).

4. For DCPs:
   a. Ability to automatically display a sequential all point summary and a sequential alarm summary.
   b. Allow display and/or changing of digital point state, analog point value, time and date, application and DDC parameters, analog limits, time schedules, run time counts and limits, daylight savings time changeover, time/event initiation, and programmable offset values.
   c. Allow access into DCP initialization routines and diagnostics and enable/disable of points, initiators and programs.

5. For TECs:
   a. Allow display access to all TECs on the respective bus.
   b. For each zone allow display of space temperature, local set point value, modes, cfm, damper percent open, fan, heating, and zone override status.
   c. For each zone allow display and changing of set points, damper mode, dead bands, proportional bands, integral gains.

2.04 DISTRIBUTED CONTROL PROCESSORS (DCPs)

A. Microprocessor based, with operating system (OS) and energy management system (EMS) programs, data file and control programs, 72 hour battery backed real time clock.

B. DCPs shall operate stand alone and independent of a central computer for all specified control applications.

C. DCPs not utilizing “Smart Devices”, shall be modular and configured to accommodate analog and digital input and output boards to meet specific application requirements, including spares as specified.

D. The DCPs including accessory devices such as relay, power supplies, etc., shall be factory mounted, wired and housed in a steel enclosure with a hinged door panel. LEDs and switches shall be visible without opening the panel door, but not accessible without opening the panel door.

E. DCPs shall be equipped with LEDs for indication of power and operational status, status of each input and output, and diagnostic LED indicators.

F. Separate discreet DCPs shall be provided to support each major HVAC system. In all cases where primary and back-up systems are specified, a single DCP shall

not be used to control both primary and secondary systems. In addition, a single DCP shall not be used to control two or more major HVAC systems (i.e., chillers and heat exchangers controlled by one single panel.)

2.05 TERMINAL EQUIPMENT CONTROLLERS (TECs)

A. TEC Controller types shall support fan coil, unit ventilator, heat pump, remote I/O modules, and air handler applications.

B. TECs shall be modular, field modifiable, expandable, and configured with an array of analog and digital inputs and outputs, and pulse counting totalizers to meet the application requirements.

C. The TECs shall be factory mounted on the equipment, wired, and housed in a steel enclosure. BAS/EMS Vendors shall ship damper actuators and VAV controllers to VAV terminal equipment manufacturer for factory installation, including transformers, relays, and air flow devices. Wiring and installation instructions are to be provided by the BAS/EMS Vendor to the VAV terminal equipment manufacturer.

D. TECs shall be able to operate at 90percent to 110percent of nominal voltage rating and shall perform an orderly shut-down below 80percent. Operation shall be protected against electrical noise of 5-120 Hz and from keyed radios up to 5 watts at 3 feet.

E. VAV Box Controllers: Microprocessor - EEPROM based, with flash memory for date file and control programs. Controllers shall have the capability for wall mounted control of temperature occupied/unoccupied or fan control.

2.06 ROUTER AND GATEWAYS

A. Provide certified Router and/or Gateway devices which connect two or more physical BACnet compatible equipment as required.

B. Routers or Gateways if required, shall be a microprocessor based communication device designed to provide seamless, two-way translation between two or more standard or non-standard network layer protocols.

C. UL Listing: UL 916 required as a minimum.

2.07 DCP AND TEC SOFTWARE

A. Energy Management Application Programs:
   1. Optimum Start, Night Cycling and Night Purge for free cooling shall address the unique requirement of each systems Unoccupied Period, which may include one or more of the following as specified:
      a. Optimum start program shall delay equipment start-up based on global outdoor temperature, and system response to assure that comfort conditions are reached at scheduled occupancy time (occupancy schedules are defined under time programs), and operate in both heating and cooling cycles. In all cases, the

optimum start program shall operate fully stand-alone in the local DCP.

b. Night Cycle program shall apply to heating cycle only (or both heating and cooling cycle) with the outdoor air dampers closed. The space temperature shall be used to determine the "fan on" and/or "supply heat" command to maintain a low limit of 50-55 degrees for the heating cycle and the "fan on" and "supply cooling" command to maintain 82 degrees for the cooling cycle.

c. Night Purge program shall apply to cooling cycle only. Night Purge shall introduce 100 percent outdoor air any time the outdoor air is above 50 degrees F, the space temperature is above 75 degrees F, and the outdoor air dewpoint is less than 60 degrees. Purging shall stop when outdoor air is below 50 degrees F, or space temperature is below 75 degrees F, or outdoor temperature is less than 5 degrees cooler than space temperature, or outdoor air dewpoint, is greater than 60 degrees.

2. A load reset program shall be provided to assure that only the minimum amount of heating, cooling, and electrical energy is supplied to satisfy zone temperature requirements. The program shall be applicable where specified to hot decks, cold decks, chilled water supply, and AHU static pressure. Individual programs are to be provided each sensing the worst case zone requirements and providing only the minimum energy source media to satisfy the need.

B. Control Software:

1. Each DCP shall contain up to 20 unique user modifiable time programs (TP):

a. Each TP shall consist of daily, weekly, and annual programs plus a "TODAY" temporary function.

b. DAILY programs shall be definable for day types such as working day, half day, holiday, weekend, etc. Each daily program shall allow a list of tome based (or optimum time based analog and digital commands to be issued to user selected plant elements and points.

c. WEEKLY programs shall allow a user selected set of daily programs to be defined for each day of the week, Monday through Sunday.

d. The ANNUAL program shall initially be an automatic compilation of 52 weekly programs. Selecting a date of the ANNUAL program shall allow modification of the daily selection entered into the weekly program, such as changing Dec. 25 from a working day to a holiday.

2. Control Application Software shall be customized strictly to meet the detailed requirements of the "Sequence of Operation" specified in PART 3. DCPs shall be fully programmable. Initial software shall be fully modifiable, and not restricted by vendor's specific configuration guidelines.

C. Management Software:

1. Each DCP shall be provided with a trend archive of at least the last 200 events, digital transitions or analog value changes, of any user selected

group of points. A stored event shall include date and time, and value or status. Events occurring in excess of 200 shall overwrite the oldest events, except where a modem module is specified, events shall be uploaded to the modem module. Point events shall be displayable at the POS as trend logs for evaluation of control system performance.

2. Each DCP shall monitor all analog input points and specified digital points for off-normal conditions. Each alarm shall have an "alarm delay" attribute which shall determine how long, in seconds, a point must be in an off-normal state prior to being considered in an alarm state. Alarms shall be displayable at the POS.
3. DCPs managing sub-networks of TECs shall report TEC alarms and shall be programmed to perform data reduction, sorting, and AHU DCP optimizing routines. In no case shall mass TEC optimizing data be allowed on the peer bus.

D. Communications Software:
1. LonTalk, BACnet, Arcnet, or Ethernet shall be used for communication between DCPs, and between operator interfaces. Each DCP shall have a full master peer-to-peer communications module to support all global data sharing, hierarchical control, and global control strategies specified. In addition, certain DCPs shall have hardware and software to support manage a secondary 9600 baud minimum bus of TECs, including hierarchical control specified, management, alarm processing and prioritization.

E. TEC Software:
1. BAS/EMS Vendor Terminal Equipment Controllers (TECs) will operate on a peer-to-peer communications network. TEC Software shall be configured to meet the detailed requirements of the Sequence of Operation, and shall be field reconfigurable if required to accommodate future functional or additional I/O requirements. TEC software shall be compatible with all the requirements set forth in the POT specification regarding TEC data display and modification. TEC software shall support full PID control.

2.08 DATA COMMUNICATIONS

A. POS and DCPs shall directly reside on a primary peer communication bus such that communications may be executed directly between POS and DCPs, and directly between DCPs on a peer to peer basis, via fiber optic cable or via electronic cable, and routers as needed.

B. TECs shall be connected together via peer-to-peer secondary communication network managed by the DCPs.
1. For LonMark System Architectures: TECs shall be connected together via LonMark certified LonWorks Free Topology Transceiver (FTT) peer-to-peer open protocol communication network.

C. Protect communication lines against incorrect wiring, static transients and induced magnetic interference.

1. Provide static, transient, and short circuit protection on all inputs and outputs.
2. AC couple, or optically isolate bus connected devices so that any single device failure will not disrupt or halt bus communication.

D. Provide Modem telephone software for equipment used for point-to-point (PTP) applications for all dialup telephone connections as specified.

E. Provide Radio Frequency (RF) software-for remote (WAN) site communications applications as specified.

F. Provide Internet Protocol Access (IP) software for Internet access for remote (WAN) site communications applications as specified.

2.09 OPERATOR INTERFACE SOFTWARE

A. Operator station software shall include as a minimum the Operating System (OS), Data Base Manager, Communications Control, Operator Interface (OI), Trend and History Files, Report Generator, Support Utilities, Scheduler and Time and Event Support Programs.

B. Provide a hierarchical linked dynamic graphic operator interface for accessing and displaying system data and commanding and modifying equipment operation. The interface shall utilize a mouse, pull-down menus, dialog boxes, zoom, coloration and animation to facilitate operator understanding of the system. A minimum of 20 levels of graphic penetration shall be provided with the hierarchy operator assignable (for example, area, building, wing, floor, air handler, sequence of operation pages, dynamic program display, point group). Dynamic system data points shall be assignable to each penetration level. Descriptors for graphics, points, alarms, etc. shall be modified through the operator's station under password control.
   1. Operator access to the system is to be under password and personal ID control. Operators shall be able to access data from any operator's station in the system by entry of proper password and ID. Sign off from an operator's station shall be a manual operation. If no mouse or keyboard activity takes place, within an assignable time period an automatic Sign Off shall occur. All sign on/sign off activity is to be recorded on the system printer.

C. A graphics mode of operation shall be provided allowing full color displays of building floor plan, HVAC system, equipment, hot water and chilled water system configuration.
   1. All graphic displays shall be online programmable via keyboard, trackball, or mouse selection of graphic library stored symbols and system profiles. Provide, in addition, the capability to create custom symbols, system profiles, floor plans, etc. and to store them in the graphics library.
   2. Penetration within a graphic hierarchy shall display each graphic name as graphics are selected to facilitate operator understanding. A backtrack shall permit the operator to move upward in the hierarchy by mouse click on the backtrack. The backtrack shall show at least the previous 4

penetration levels. The operator shall be provided the option of showing each graphic full screen size with the backtrack as the horizontal header or by showing a stack of graphics, each with a backtrack.

3. All operator accessed data shall be displayed on the color monitor. The operator shall select further penetration via mouse click on an area, building, floor, fan, etc. The defined linked graphic below that selection shall then be displayed. Dynamic data shall be assignable to any and all graphics.
4. The operator shall be provided with means to directly access any graphic or any point without going through the penetration path.
   a. Direct access to graphics shall be menu selectable wherein the operator may optionally enter the name of the graphic system desired or select the desired graphic via cursor positioning on a scroll bar listing of all graphics, or may be selected via keyboard entry.
5. Points (physical and pseudo) shall be displayed with dynamic data provided by the system with appropriate text descriptors, status or value, and engineering unit. Coloration shall be used to denote status and alarm states. Coloration conventions shall be variable for each class of points. In addition, there shall be clear indication of latest status (e.g., fan rotation, damper position, fluid flow, etc.) where specified. All points shall be dynamic with update rates user adjustable on a per point basis from 20 seconds to 120 seconds depending upon the process dynamics.
6. For operators with the appropriate privilege(s), points shall be commanded directly from the color monitor via mouse selection. For a digital command point such as a state (e.g., CLOSED) and the operator could select OPEN via mouse click. For most operations, a keyboard equivalent shall be available for those operators with that preference. Upon selection of analog commandable points (such as discharge air static pressure), a dialog box shall appear containing the following:
   a. The decimal value of the set point with adjacent up-down arrows.
   b. The operator shall be afforded three methods of analog commanding from which to choose as follows:
      1) Click the cursor on the decimal set point value, and enter a new set point value via the keyboard decimal keypad.
      2) Drive the decimal value up or down via the up-down arrows.
      3) “Drag” the set point arrow up or down by moving the cursor to the desired position and clicking.
   c. The bar chart shall also have an associated colored scale showing the current position (scaled value) of the alarm limits.
7. An operator shall be permitted to split or resize the viewing screen to show one graphic on the left half of the screen and another graphic, spreadsheet, bar chart, word processing, curve plot, etc., on the right half screen, to allow real time monitoring of one part of the system while displaying other parts of the system or data from the system to facilitate system operation.
8. An on-line context-sensitive “help” utility shall be provided to facilitate operator training and understanding. The document shall contain text

and graphics to clarify system operation. At a minimum, help shall be available for every menu item and dialog box.

D. Site Specific Customizing Software:

1. Provide all hardware and software required for complete system programming including system schematic development, I/O hardware point definition, hardware and software text point descriptors, DDC algorithmic development, a controller software loading utility, and a live programming test facility. Color conventions shall be used throughout to support ready recognition of inputs, outputs, plant heating/cooling devices, control function modules, etc. Provide all hardware and software required for the modification of existing graphics and for the construction of new graphics.
2. Provide software which will allow the user to modify and tailor the DDC system to the specific and unique requirements of the equipment installed, the programs implemented, and to staffing and operational practices. Online modification of system configuration, program parameters, and data base shall be provided via menu selection and keyboard entry of data into preformatted self-prompting templates. As a minimum, the following modification capability shall be provided.
    a. Operator assignment capability shall include designation of operator passwords, privilege(s), starting graphic and auto sign off duration.
    b. Peripheral assignment capability shall include assignment of segregation groups to consoles and printers, and designation of backup printers.
    c. System configuration/diagnostic capability shall include communications and peripheral port assignments, DCP enable/disable, assignment of command trace to points and initiation of diagnostics.
    d. System text add/change capability shall include action messages for alarms and run time, and trouble condition messages.
    e. Time/Schedule change capability shall include time/date set, time/occupancy schedules, holiday schedules, and daylight savings time schedules. All time and calendar scheduling and schedule modification shall be accomplished graphically via color bars and calendars in a hardware independent manner.
    f. Points shall be uniquely defined as to coloration, animation (when used), flashing rate and duration, audible rate and duration, point descriptors, operator messages (480 characters minimum), printer options, alarm archival option, alarm and warning limits, and engineering units. All messages specified and all physical and pseudo point descriptors shall be entered by the Company producing the system.
    g. Point related change capability shall include system/point enable/disable; run time enable/disable; assignment of points to point classes, analog value offset, lockout, run time limits, and setting a fixed input value or output status.
    h. All adjustable setpoints shall be resettable from a graphic.

E. Alarm handler software shall respond to alarm conditions sensed and transmitted from DCPs and TECs. First in, first out handling of alarms in accordance with alarm priority ranking is required with buffer storage for a minimum of 20 alarms in case of simultaneous multiple alarms. Alarm handler shall be active in both the Signed On and Signed Off modes to assure that alarm will be processed even though and operator is not currently signed on.

1. Alarms shall be displayed in a dialog box of the color monitor. Display shall include as a minimum:
   a. Indication of alarm condition; i.e., ABNORMAL Off, HI ALARM/LO ALARM, analog value or status, and English point identification.
   b. A unique per point alarm action message; i.e., "The fan has shutdown due to an excessively high discharge duct pressure, There is a strong indication of a system malfunction such as an inlet vane drive failure, or major fire damper closure. The switch should not be manually reset until a thorough check of the cause is conducted" of up to 480 characters.
2. Alarms are to be directed to appropriate operators, operator stations, and printers for segregation assignments as specified in previous sections of this specification.
3. Alarm silencing shall be by selecting the "silence" button or by authorized operator's acknowledgment. In all cases, alarm acknowledgment shall only be allowed by operators authorized to acknowledge a point in alarm.
4. Each point shall be assigned to an alarm class, with no limit to the quantity of alarm classes. Each alarm class shall be uniquely assignable to any combination of the following alarm processing attributes:
   a. Audible beep duration: none, 10 seconds, 20 seconds, continuous.
   b. Audible beep rate (slow-medium-fast).
   c. Alarm historically archived (yes or no).
   d. Alarm printed, with printer ID.
   e. Associated coloration with any of 256 colors with separate brightness control, assignable to each alarm state (high alarm, etc.) and similarly be distinguished with different colors for each possible state.
5. Alarms shall be displayed and/or printed at each peripheral to which its segregation allows, but only those operators having proper privilege level will be allowed to acknowledge alarms.
6. An unacknowledged alarm indicator shall be provided on the color monitor display to alert the operator that there are unacknowledged alarms in the system.
7. Symbols for points in a graphic display that are in an unacknowledged alarm state shall flash red; when in an acknowledged state, the symbol shall be non-flashing-red.
8. Run time limit messages shall be presented and processed as alarm messages except the action message shall be of a maintenance directive nature.

F. Standard reports shall be provided which shall be operator selectable to appear on the operator station, any selected printer or both. A "terminate report" command shall be available to allow the operator to stop any report in the process of being printed. In the event of failure of any printer, subsequent reports directed to that printer shall be automatically redirected to an operator preassigned backup printer dedicated at the operator station. The following standard pre-formatted reports shall include:

1. Point summary reports may be requested at any penetration level (building, area, system) and shall include only points at and below that level. Point summary reports shall include the current value/status and condition, English system and point descriptors for all points. Point summary reports shall be selectable for all points, only those points in alarm, fixed points, disabled points, locked out points, locked out and in alarm points, analog input or output points, digital input or output points. All reports shall be capable of being scheduled to run at a specific time and/or interval via an operator function supported by necessary data entry templates and interactive prompts.
2. Dynamic trends shall show real time activity of the associated points. This information shall be printed and/or displayed in numeric, bar chart, curve plot, pie chart, etc., as selected by the operator. Graphic plots shall allow a unique color for each point. As new point values are sampled, they shall be processed, scaled, and dynamically appended to any plot being displayed. Sample interval of points selected for dynamic trend shall by user selectable from five seconds to sixty minutes.
3. Alarm and run time reports shall be automatically issued to assigned printers immediately upon occurrence, and shall consist of the point descriptor, the status or value of the point with engineering unit, the time and date, and an action taking alarm message.
4. The user shall be provided with a command trace feature selectable on a per point basis allowing the archiving of all commands issued to each point. The archived trace shall include the command, the command source, the point ID, and the time and date. Command trace reports shall be output upon operator demand.
5. A custom report capability shall be provided to allow the user to format reports of any mix of text, points with status/value and descriptors, and points with status/value only. Custom reports may be scheduled or requested manually. A spreadsheet program similar to Microsoft Excel shall be provided fully integrated with the DDC system data base, and available to the user. Spreadsheet packages which require offline execution or manual translation of data files from one program format to another are not acceptable.

G. Trend reports shall allow the operator to randomly select logical arrays of points to be recorded at selectable time intervals.

1. Trend point archival - Each DCP trend point system (hardware and software) shall be assignable to PC archive files at user definable time intervals. Trend data sample resolution shall be a minimum of one degree or one percent of the points range, whichever is smaller. Each point trend file shall have a user assignable selectable archive duration of a day, a week, a month, or a year. For any duration period selected, the file shall retain one full duration period while it collects another (i.e.,

after collecting data for May, May is retained in total as June data is accumulated).

2. Trend display points shall be subsequently printed/ displayed individually or in logical groups of up to any eight points in any group. Points may be assignable to multiple trend groups. The system shall have up to 500 trend groups which may be predetermined by the user for a unique set of logical points and display characteristics.
   a. Single Point Displays: Single point trend reports shall be displayable by selecting the desired point from any system graphic upon which it is displayed or by entering its keyname. Display characteristics shall be user predeterminable for any desired display range (X-Axis period) and any desired data manipulation within the selected range.
   b. Template-selectable display range options shall be "current", "previous", or "date range" with range and appropriate data intervals. "Current" ranges shall be time periods of one hour, two hours, etc., up to one year. Starting at the beginning of the range (i.e., a display of the "current" month shall start at 00:01AM the first day of the month and display selected values up to the present time). Data intervals within the selected ranges shall be selectable from ten seconds to one month, dependent upon the sample intervals. The X-Axis resolution shall accommodate up to 100 data values. "Previous" ranges shall be similar to current ranges, except that a full "range" of data (such as a full seven days of data for the past week, up to the Present time) shall be provided. Selectable range, data intervals, and X-Axis resolution shall be as specified for the "current" display range. "Date range" selection shall provide templated for the entry of year, month, date, hour, and minute for the beginning and the end of X-Axis data. Selectable data intervals and X-Axis resolution shall be as specified for the "current" range.
   c. Data Manipulation: Within the selected X-Axis intervals of the selected A-Axis range of data, data manipulation options shall be template selectable as the actual, last, highest, lowest, or average of the actual data samples within each interval. For example, for data sampled every five minutes one might select the highest value within every two hours for the past week. From that display, noting the two hour period with the peak value, the operator may subsequently request a display of actual values every five minutes for the related two hour period.
   d. Point Group Displays: Point group displays shall be set-up by selecting each point desired to be displayed in a logical trend group and either setting up a new group with appropriate group name (such as AHU RETURN AIR TEMPS) or selecting an existing group from a drop-down menu. Group displays shall then be initiated by selecting a top-level menu-bar option trend, and selecting a trend group from a subsequent drop-down menu. From this point, template selectable display options shall be as specified for single point displays (i.e., current, previous, date range, actual, highest, lowest, average).

3. Trend Presentation Options: After defining a desired trend display as above, selectable presentation options of display, print, or spreadsheet shall be available.
   a. Display: Selecting "Print" shall initiate an immediate printout of the same data values used to construct the above curve plot. Print format shall include a header with a time column and eight eight-digit value columns of data. The appropriate engineering unit shall be at the head of each column. The print header shall include a column point descriptor legend and an English description of the trend display set-up options as specified for the "display" option.
   b. Spreadsheet: Selecting the spreadsheet option shall present the display values (after data manipulation) in a spreadsheet (Microsoft Excel) format. From this screen, the user may edit the values to correct problems (missing data, failed sensors, errors). After editing, display or print options specified above may be executed, or any other standard spreadsheet data manipulation options may be exercised.

2.10 DATA AND CONTROL (D/C) SUMMARY

A. Each analog point shall have unique DCP and TEC resident dual high and dual low limit alarm thresholds set in engineering units. Where specified, floating (a band above and below a set point) alarm limits shall be provided.

B. Each digital output shall have a software-associated monitored input. Any time the monitored input does not track its associated command output within a programmable time interval, a "command failed" alarm shall be reported.

C. Where calculated points (such as CFM) are shown, they shall appear in their respective logical groups. The respective unconditioned raw data (such as logarithmic differential pressure) points shall also be grouped into a special group for display and observation independent of the logical groups.

2.11 VARIABLE SPEED FAN CONTROL

A. Temperature Transmitter: Selectable span to meet the individual application requirements.

B. Optical Loop Isolator: To provide protection against RFI and signal line spike interference.

C. Power Supply: 120 V ac to a maximum of 35 V dc while supplying the current necessary for the transmitter, receiver, and indicator.

D. Receiver Controller: Input of 4 to 20 mA, adjustable output zero and span; proportional direct or reverse acting output of a signal level and type as required as an input to the fan speed controller; grounded or ungrounded output as needed by the drive, capable of PID control.

E. Signal Selection: Low signal discrimination so that the drive is operated from the point in the hydronic system with the greatest offset below the set point temperature.

F. Indication: The temperature at each transmitter shall be indicated at the receiver controller.

G. Operation: Each noted point in the system shall have a receiver controller and a separate set point. The fan drive, speed, shall be automatically adjusted to maintain the temperature to satisfy the controlling set point. The speed of the drive shall ramp in the direction of large changes and shall soft start the fan.

H. Signal Wire ,20 gauge shielded twisted pair: Provide signal wire as recommended by the Company producing the system. Soft ground the wire shield.

2.12 VARIABLE SPEED PUMP CONTROL

A. Differential Pressure Transmitter: Selectable span to meet the individual application requirements, approximately 30 pound minimum span; 500 pound operating system pressure; wetted materials to be brass and berylium copper; 4 - 20 mA transmission signal capable of operating with a loop resistance up to 1100 ohms.

B. Optical Loop Isolator: To provide protection against RFI and signal line spike interference.

C. Power Supply: 120 V ac to a maximum of 35 V dc while supplying the current necessary for the transmitter, receiver, and indicator.

D. Bypass Block: A 3 valve manifold for the transmitter to include 2 shut-off valves and 1 by-pass valve.

E. Receiver Controller: Input of 4 to 20 mA, adjustable output zero and span; proportional direct or reverse acting output of a signal level and type as required as an input to the pump speed controller; grounded or ungrounded output as needed by the drive, capable of PID control.

F. Signal Selection: Low signal discrimination so that the drive is operated from the point in the hydronic system with the greatest offset below the set point differential pressure.

G. Indication: The differential pressure at each transmitter shall be indicated at the receiver controller.

H. Operation: Each noted point in the hydronic system shall have a receiver controller and a separate set point. The pump drive, speed, shall be automatically adjusted to maintain the differential pressure to satisfy the controlling set point. The speed of the drive shall ramp in the direction of large changes and shall soft start the pump.

I. Signal Wire, 20 gage shielded twisted pair: Provide signal wire as recommended by the Company producing the system. Soft ground the wire shield.

2.13 MISCELLANEOUS ELECTRIC/ELECTRONIC AND MECHANICAL DEVICES

A. Input/output sensors and devices shall be closely matched to the requirements of the DCP for accurate, response, noise free signal input/output. Control input response shall be high sensitivity and matched to the loop gain requirements for precise and responsive control.
   1. In no case shall computer inputs be derived from pneumatic sensors or thermocouples.

B. All electric switch devices shall be selected for the applied load and UL listed for the application.

C. All aquastats shall be provided with a separable copper, monel or stainless steel well.

D. Provide NEMA 1 enclosures for all switching devices.

E. Unless otherwise specified or indicated, the following features are required for the equipment specified:
   1. Control valves shall be 125 or 150 lb. class. Valves shall have stainless-steel stems and spring loaded Teflon packing with replaceable discs.
      a. All modulating straight-through water valves shall be furnished with equal-percentage contoured throttling plugs. Valves shall be sized for a pressure drop equal to the coil they serve but not less than 4 psi. Size chilled water and heating hot water control valves, for a 4 psig drop, unless otherwise noted on drawings.
      b. All modulating steam valves shall have linear characteristic for 90 percent of the closing stroke and equal-percentage for the final 10 percent. Size low pressure steam valves for a 10 psig inlet pressure and a pressure drop of 8 psig, unless otherwise noted on drawings. On low pressure steam systems, when load exceeds the capacity of 2-1/2" valve, provide two valves each controlling 50 percent of load.
   2. Safety low limit shall be manual reset twenty foot limited fill type responsive to the coolest section of its length.
   3. Temperature sensors shall be Resistance Temperature Detector (RTD) type with 500 ohm balco, 100 or 3000 ohm platinum.
      a. Resistance shall be 100 ohms at 32 degree F with a minimum accuracy of 0.5 degree F through the range of 32 degree F to 212 degree F.
      b. Space temperature sensors shall be provided with vandal resistant type locking covers.
      c. Duct temperature sensors shall be averaging type elements for sensing mixed air temperatures in ductwork, with sufficient length or sufficient number of elements, so as to efficiently measure the air temperature through the entire cross section of duct.

d. Water temperature sensors shall be provided with a separable copper, monel or stainless steel well.
e. Outside air wall mounted sensors shall be provided with a sun shield.

4. Thermistors:
   a. Precision thermistors may be used in temperature sensing applications below 200 degrees F, as identified on the project drawings or where allowed in this specification.
   b. Sensor accuracy over the application range shall be 0.36 degrees F or less between the range of 32 degrees F to 150 degrees F. Sensor manufacturer shall utilize 100 percent screening to verify accuracy. Thermistors shall be pre-aged, and inherently stable. Stability error of the thermistor over five years shall not exceed 0.25 degrees F cumulative.
   c. Sensor element and leads shall be encapsulated. Bead thermistors shall not be allowed. A/D conversion resolution error shall be kept to 0.1 degrees F. Total error for a thermistor circuit shall not exceed 0.5 degrees F, which includes sensor error and Control Unit A/D conversion resolution error.
   d. Provide thermistor and Control Unit manufacturer documentation including Contractor's engineering calculations, which support the proposed thermistor input circuit will have a total error of 0.5 degrees F or less.
5. Water flow analog sensors shall be provided complete with flow element and shall be an all solid state precision industrial type with stainless steel meter body, maximum error of no more than 1-1/2 percent of span, at flow rates between 1 and 30 FPS and 4 to 20 mA output. Sensor shall be rated for 250 psi minimum. Sensor shall be replaceable while leaving piping in service at normal operating pressure.
6. Differential and Static Pressure Sensors and Switches:
   a. Air flow and static pressure analog sensors shall be high accuracy suitable for the low velocity pressures to be encountered, be selected for approximately 50 percent over range, and have a 4 to 20 mA output. These differential pressure sensors shall be connected to the air flow measuring station with valved lines for testing and calibration, and shall have adjustments for zero and span.
   b. Pressure Transducer: All pressure transducers for sensing static pressure in ductwork shall be of the electronic type and provide an output signal of zero to ten volts DC, two to ten volts DC, or four to twenty milliamps. All transducers shall provide an accuracy of 2 percent of full scale or better, a repeatability of 0.5 percent of full scale or better, and a hysteresis of 1 percent or less. The effect of ambient temperature variations shall be less than 2 percent of full scale for ambient temperature changes from 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F). The effects of variation in line voltage shall be less than 1 percent of full scale for voltage changes corresponding to 10 percent of the nominal line voltage. The span of each transducer shall be as indicated on the drawings. Each transducer shall have a zero and span adjustment.

7. Air Flow Measuring Station:
   a. Type: Permanent, in-place, direct reading velocity and static pressure measuring station; Model FMS-W by Cambridge Air Sentinel Products, Syracuse, NY.
   b. Casing:
      1) 16 gage galvanized steel construction for installation in galvanized steel duct.
      2) 16 gage stainless steel for installation in stainless steel duct.
   c. Sensors: One piece leak-free type of non-lifting airfoil configuration with copper collectors.
      1) Interconnecting Tubing: Internal to unit with exception of one total pressure and one static pressure connection.
      2) Total and Static Sensing Ports: Positioned in extruded sensor on equal area basis in accordance with ASHRAE pilot tube traverse guidelines.
         a) Units with Face Area Less than 4 sq ft: Maximum of 16 sq in per total pressure port and 48 sq in per static pressure port.
         b) Units with Face Areas 4 Sq Ft and Larger: Maximum of 36 sq in per total sensor port and not exceeding 64 ports.
         c) Interconnected extruded sensors and collectors shall average and relate each type of pressure measurement into one total pressure and one static pressure metering port.
   d. Design Data:
      1) Maximum Resistance to Air Flow: 12 percent of velocity head at any given air flow.
      2) Maximum Temperature: 220 degrees F continuous operation with intermittent exposure up to 250 degrees F.
8. Temperature or humidity control equipment with sensing elements or probes for insertion in insulated equipment or insulated ductwork: Provide flanges or sockets of the extension neck type, so as to finish flush with final insulated surface.
9. Flow Sensor for Water and Steam:
   a. Type: Model DNT (1/2 inch to 2 inch sizes) and Model DCR (2 inch to 24 inch sizes) by Dieterich Standard Corp., Boulder, CO.
   b. Features:
      1) Diamond cross sectional shaped sensing tube which causes flow separation to occur at a fixed point independent of flow rate, pressure or temperature, resulting in stable flow coefficient over a wide range of Reynolds numbers.
      2) Each flow sensing unit complete with blow out proof mounting hardware, instrument shutoff valves and connections for electronic transmitter.
      3) Nameplate: Permanently attached to flow sensor indicating design flow rate, meter reading for design

flow rate, metered fluid, line size, and station number or location.

4) Construction: Rated up to 600 psi ANSI equivalent (1440 psig at 100 degrees F) with type 316L stainless steel sensing element and mounting coupling constructed of material compatible with piping.

5) Accuracy: Flow element shall be within +1 percent of actual flow rate over a minimum flow turndown of 10:1. The bi-directional primary sensing device shall be accurate to within +1 percent.

6) Repeatability: +0.1 percent of actual valve over flow range.

7) Differential Pressure Transmitter: Model FCX by ITT Barton.

a) Consists of silicone based variable capacitance sensor, Type 316 stainless steel body, Hastelloy C isolation diaphragm, silicone fill fluid, and NEMA 4X enclosure with local digital indication in engineering units.

b) Provides 4 - 20 mA outlet signal and capable of minimum 20:1 turndown with accuracy of +0.1 percent of calibrated span up to 10:1 turndown, including combined effects of linearity, hysteresis and repeatability.

c) Power Supply: 11 - 45 Vdc two wire.

10. Current Sensor for Fan or Pump:

a. Unit Status: Solid-State Status Sensor.

1) Output rating: 0.2 A at 30 Vdc.

2) Input rating: 0 to 135 ampere continuous.

3) Sensor supply current induced from monitored conductor. Minimum conductor current required 1A. Maximum rating 135.

4) Isolation: 600 Vac RMS.

5) Trip set-point: Adjustable to +1 percent.

6) Temperature range: -15 degrees C to 85 degrees C.

7) Humidity range: 0 to 95 percent non-condensing.

11. Humidity Sensor: Model 534636 by Landis and Staefa, Inc.

2.14 AUTOMATICALLY OPERATED DAMPERS

A. Dampers:

1. Size dampers for linear flow output, with a maximum damper leakage of 30 cfm per square foot of projected area at 3 inch static pressure.

2. Provide dampers and seals suitable for service from -40 degrees F to 200 degrees F, with closed cell neoprene edging seals, spring loaded stainless steel side seals and adjustable baffles for full size adjustment.

3. Provide dampers in 2 inch size increments from 8 inches horizontal and vertical to 48 inches. For requirements over 48 inches in size provide standard modules with interconnecting hardware.

4. Dampers shall be of the multiple interlocking V-grooved blade type with nylon or oil impregnated bronze bearings, zinc plated steel shafts and

hardware with a corrosion resistant finish. Provide blades a maximum of 8 inches in width with the overall construction designed to prevent leakage in the closed position, complete with solid stops.

5. Fabricate frames in steel ductwork from No. 13 USS gage galvanized steel and blades of No. 16 USS gage galvanized steel, with a factory baked black enamel finish.
6. Fabricate frames in aluminum ductwork from No. 14 B & S gage extruded aluminum and blades of No. 14 B & S gage aluminum.
7. Proportional control dampers shall be rated by the manufacturer as suitable for use at 3000 fpm face velocity.
8. Equipped with required type of actuator, electric/electronic.

2.15 ACTUATORS

A. Type: All actuators shall be electric/electronic.

B. Actuators shall be factory selected, mounted and tested for proper operation based on unit size, type, and torque requirements.

C. Electric/Electronic Actuators:
   1. Damper Actuators:
      a. Electric/Electronic, positive positioning, spring return, sized to stroke damper smoothly throughout its range.
         1) All outdoor air dampers shall fail closed upon electric power loss.
      b. Actuator response shall be linear in response to sensed load.
      c. Voltage to suit system voltage.
   2. Valve Actuators:
      a. Electric/Electronic, positive positioning to suit valve body and service.
      b. Fully proportional, spring return for normally open or normally closed operation as required.
         1) All heating valves to fail open upon electric power loss.
         2) All cooling valves to fail closed upon electric power loss.
      c. Voltage to suit system voltage.

2.16 MARKERS AND NAMEPLATES

A. Markers: Premarked self-adhesive; W.H. Brady Co.'s B940, Thomas and Betts Co.'s E-Z Code WSL self-laminating, Ideal Industries' Mylar/Cloth wire markers, or Markwick Corp.'s permanent wire markers.

B. Nameplates: Precision engrave letters and numbers with uniform margins, character size minimum 3/16 inch high.
   1. Phenolic: Two color laminated engraver's stock, 1/16 inch minimum thickness, machine engraved to expose inner core color (white).
   2. Aluminum: Standard aluminum alloy plate stock, minimum .032 inches thick, engraved areas enamel filled or background enameled with natural aluminum engraved characters.

3. Materials for Outdoor Applications: As recommended by nameplate manufacturer to suit environmental conditions.

2.17 ACCESSORIES

A. Include accessories required to perform the functions specified and indicated on the drawings.

2.18 WIRING

A. See Section 260502.

2.19 THERMOSTAT/TEMPERATURE SENSOR GUARDS

A. Model TG Series 16 by Shaw Perkins:
1. Cover: Top, front and bottom, 16 gauge perforated steel, 1/8 inch perforations on 3/16 inch centers.
2. Sides and mounting frame: 14 gauge steel.
3. Fastener: 1/4x3/8 inch tamper resistant torx or allen head center post.
4. Finish: Baked enamel finish.

2.20 REFRIGERANT SENSOR (MONITOR)

A. Type: Model RMWC by Trane Co., LaCrosse, WI.

B. Features:
1. Sensitivity: Compound specific with measurement and display range of 0-1000 ppm and accuracy of +1 ppm.
2. Alarm Outpouts: Three levels of concentration alarms.
3. Analog Outputs: 0 -10 V dc and 4 to 20 mA output.
4. Ratings: 40-110 degree F ambient.
5. Enclosure: NEMA - 4 construction.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install system in accordance with the Company's printed instructions unless otherwise indicated.

B. Install and properly support all ductstats, dial thermometers, thermostat bulbs, temperature and humidity controllers in the center of duct cross section, in a straight duct run.

C. Temperature or humidity control equipment installed on insulated surfaces: Provide extension pieces or rigid insulating mounting back plates, of depth as required, so that equipment backs finish flush with final insulated surface.

D. Identification, Labeling, Marking:
   1. Identification of Circuits: Identify wires and cables by system and function in interconnection cabinets, POSs and DCPs to which they connect with premarked, self-adhesive, wraparound type markers. Designations shall correspond with point to point wiring diagrams.
   2. Battery Data: Insert a copy of the battery warranty in each battery compartment and mark on batteries the date placed in service.

E. Provide at least one DCP for each air handling system and for each mechanical equipment room. Separate discreet DCPs shall be provided to support each major HVAC system. In all cases where primary and back-up systems are specified, a single DCP shall not be used to control both primary and secondary systems. In addition, a single DCP shall not be used to control two or more major HVAC systems (i.e., chillers and heat exchanger controlled by one single panel).

3.02 FIELD QUALITY CONTROL

A. Preliminary System Test:
   l. Preparation: Have the Company Field Advisor adjust the completed system and then operate it long enough to assure that it is performing properly.
   2. Run a preliminary test for the purpose of:
      a. Determining whether the system is in a suitable condition to conduct an acceptance test.
      b. Checking and adjusting equipment.
      c. Training facility personnel.
   3. Also perform a witnessed validation demonstration consisting of:
      a. Running each specified report.
      b. Display and demonstrate each data entry template to show site specific customizing capability. Demonstrate parameter changes.
      c. Execute menu tree.
      d. Display graphics, demo update.
      e. Execute digital and analog commands in English and graphic mode.
      f. Demonstrate freeform address assignments and commands.
      g. Demonstrate all specified diagnostics.
      h. Demonstrate DDC loop precision and stability via trend logs of inputs and outputs (6 loops minimum).
      i. Demonstrate scan, update, and alarm responsiveness.

B. System Acceptance Test:
   l. Preparation: Notify the Director's Representative at least 3 working days prior to the test so arrangements can be made to have a Facility Representative witness the test.
   2. Make the following tests:
      a. Test system operational functions step by step as summarized in the detailed description of system operation.
      b. Test monitor and control devices.

c. For Lon Mark System Architectures: Demonstrate that each device meets Functional Profile for each application specified.
d. Test all remote devices such as valve and damper actuators to demonstrate full range of motion in the "controllable range".

3. Supply all equipment necessary for system adjustment and testing.
4. Submit written report of test results signed by Company Field Advisor and the Director's Representative. Mount a copy of the written report and in a Plexiglas enclosed frame assembly adjacent to the POS.

3.03 POINT DESCRIPTION, PROGRAM LIST, AND SEQUENCES

A. General:

1. Points listed are the minimum number of points to be provided. Provide additional points as required to satisfy the sequence and operational requirements.
2. Provide spare points. After the system has been completed and tested, the following minimum quantity of spare points shall be available for future connection at each DCP:
   a. Binary inputs: 2.
   b. Binary outputs: 2.
   c. Analog inputs: 1.
   d. Analog outputs: 1.
3. Provide proportional-integral-derivative algorithms for all control programs.
4. Determine, through operation of the system, proportional bands, interval time, integral periods, adjustment rates, and any other input information required to provide stable operation of the control programs.
5. Where primary and standby pumps are provided, programming shall provide for alternating operation of pumps each time the system starts, and once per month during periods of continuous operation, unless otherwise indicated on Sequences. Provide automatic start-up of standby pump on failure of the pump which has been selected for operation. Failure is the inability to maintain the specified minimum differential pressure for a period of 60 seconds.
6. Provide proof of flow for fans. Fan proof-of-flow switches shall be adjustable set point and differential pressure type. Switches shall be piped to fan discharge except where fans operate at less than one inch W.C., they shall be piped across the fan. For fractional horsepower and non-ducted fans, relays or auxiliary contacts may be used. Maximum pressure rating shall be at least 10 inches W.C.
7. Provide proof of flow for pumps. Pump proof-of-flow switches shall be adjustable set point and differential pressure type. For fractional horsepower pumps, relays or auxiliary contacts may be used.
8. The system-wide outdoor air temperature and outdoor air humidity signals shall each consist of the average of 3 sensors. The sensors shall be located in the fresh air intake serving AHU-C.
9. The following definitions apply to the letter descriptors used in the point lists:
   a. RT - Run time of a piece of equipment. This shall be the total operating time since initial start-up of a piece of equipment.
   b. T - Indicates the point shall be trendable.

c. A - Indicates the system shall alarm when the point is outside its range, or upon contact closure or opening.

10. All alarms shall be trendable. All equipment start/stops shall be trendable.

11. At a minimum, each sequence and accompanying point list shall be represented by an individual graphic. Each point listed shall appear on the graphic. Where appropriate and approved, multiple sequences and point lists may be combined into a single graphic.
    a. For analog outputs, display on the graphic the percent of full signal (percent open for valves and dampers, percent of speed for variable speed drives, percent open for vortex dampers, etc.).
    b. For analog outputs controlled by analog inputs, provide a probe at the graphic to redefine the proportional, integral, and derivative gains.
    c. Alarm set points and ranges shall be resettable from the graphic. Control set points and ranges shall be resettable from the graphic.
    d. Where average point values are called for in the sequence, the average value shall be displayed on the graphic. In response to a probe on the graphic, the individual sensor values and sensor locations shall be displayed.

12. Where dampers operate in conjunction with fan operation, the damper open signal shall precede the fan start signal by 10-15 seconds. The damper close signal shall be delayed 10-15 seconds after the fan stop signal.

3.04 POINT DESCRIPTION, PROGRAM LIST, AND SEQUENCES

A. General:

1. Points listed are the minimum number of points to be provided. Provide additional points as required to satisfy the sequence and operational requirements.
2. Provide spare points. After the system has been completed and tested, the following minimum quantity of spare points shall be available for future connection at each DCP:
    a. Binary inputs: 2.
    b. Binary outputs: 2.
    c. Analog inputs: 1.
    d. Analog outputs: 1.
3. Provide proportional-integral-derivative algorithms for all control programs.
4. Determine, through operation of the system, proportional bands, interval time, integral periods, adjustment rates, and any other input information required to provide stable operation of the control programs.
5. Provide proof of flow for fans. Fan proof-of-flow switches shall be adjustable set point and differential pressure type. Switches shall be piped to fan discharge except where fans operate at less than one inch W.C., they shall be piped across the fan. For fractional horsepower and non-ducted fans, relays or auxiliary contacts may be used. Maximum pressure rating shall be at least 10 inches W.C.

6. Provide proof of flow for pumps. Pump proof-of-flow switches shall be adjustable set point and differential pressure type. For fractional horsepower pumps, relays or auxiliary contacts may be used.
7. The system-wide outdoor air temperature and outdoor air humidity signals shall each consist of the average of 3 sensors. The sensors shall be located in the fresh air intake serving each Air Handling Unit (3 Total).
8. The following definitions apply to the letter descriptors used in the point lists:
    a. RT - Run time of a piece of equipment. This shall be the total operating time since initial start-up of a piece of equipment.
    b. T - Indicates the point shall be trendable.
    c. A - Indicates the system shall alarm when the point is outside its range, or upon contact closure or opening.
9. All alarms shall be trendable. All equipment start/stops shall be trendable.
10. At a minimum, each sequence and accompanying point list shall be represented by an individual graphic. Each point listed shall appear on the graphic. Where appropriate and approved, multiple sequences and point lists may be combined into a single graphic.
    a. For analog outputs, display on the graphic the percent of full signal (percent open for valves and dampers, percent of speed for variable speed drives, percent open for vortex dampers, etc.).
    b. For analog outputs controlled by analog inputs, provide a probe at the graphic to redefine the proportional, integral, and derivative gains.
    c. Alarm set points and ranges shall be resettable from the graphic. Control set points and ranges shall be resettable from the graphic.
    d. Where average point values are called for in the sequence, the average value shall be displayed on the graphic. In response to a probe on the graphic, the individual sensor values and sensor locations shall be displayed.
11. Where dampers operate in conjunction with fan operation, the damper open signal shall precede the fan start signal by 10-15 seconds. The damper close signal shall be delayed 10-15 seconds after the fan stop signal.

3.05 SEQUENCES:

A. General:
1. All setpoints and schedules shall be adjustable through operator interface with no additional programming required.
2. Provide adjustable deadband for all setpoints so as not to excessively cycle equipment.
3. Provide control components compatible with individual manufacturer's equipment.
4. Provide supply and return duct mounted temperature sensors in accessible locations for temperature control of Air Handling Unit systems. Locate return duct sensor downstream of last branch of the air handling unit return air duct connection.

5. Provide return duct mounted temperature sensors in accessible locations for temperature control of Cabinet Unit Heaters.
6. Provide flat metal wall plate temperature sensors for temperature control of individual spaces (entries, vestibules, counseling, etc) mounted 52 inches above floors.
7. Upon a signal from the fire alarm panel, air handling equipment shall be shut down and outside air dampers shall close.
8. Provide the following general sensors: Outdoor air temperature and Outside air humidity. For each building provide points to indicate fire alarm status.
9. Air systems are constant volume. For all Variable Frequency Drives (VFD) associated with fans, provide a manual speed adjustment and frequency display accessible thru the graphic screen of the associated equipment.
10. Note: Air handling unit outside air and return air dampers are separated from one another in the duct system and must track in opposition.

B. AIR HANDLING UNITS W/ RELIEF FANS

Description	Points				Notes
	Input		Output		
	Binary	Analog	Binary	Analog	
Final Filter Differential Pressure		X			A
Return Air Temp		X			T
Return Air Humidity		X			T
Supply Air Temp		X			T
Zone Temp		X			T, A
Heating Valve				X	T
Supply Fan VFD Speed				X	T
Mixed Air Dampers				X	
Freezestat	X				A
Return Air Smoke Detector	X				A
Supply Fan Status	X				T
Supply Fan VFD Fault	X				T, A
Cooling Stage			X		T
Supply Fan Start/Stop			X		
Relief Fan Status	X				T
Relief Fan VFD Fault	X				T, A
Relief Fan Start/Stop			X		
Relief Fan VFD Speed				X	T
Economizer Relief Iso Damper			X		T
Economizer Outside Air Iso Damper			X		T

1. General The air handling unit shall consist of a supply fan, DX cooling coil, a hot water coil with modulating hot water coil control valve, and filter.

2. Sequences:

a. General: The air handling unit fan motor shall be energized and de-energized via variable frequency drives provided by the Energy Management System.

b. Shut Down/Start Up:

1) Shut down: The air handling unit fans shall be de-energized, the outdoor air damper shall close and return air damper shall open (via spring return actuator(s)) under the following conditions:

2) The air handling unit is turned off through the Energy Management System.

3) The air handling unit is turned off by the fire alarm panel. The fan drives shall de-energize independently of the DDC and the position of the supply fan controls.

4) The air handling unit is turned off using the selector switch on the VFD fan controls.

5) Low Temperature Limit Shut down: If a low temperature limit up stream of the heating coil senses a temperature below 34 DegF, the air handling unit fans shall be de-energized independent of the selector switch position, the outdoor air damper shall close and return air damper shall open (via spring return actuator(s)) and the hot water valve shall return to the full open position. Provide one restart through DDC software. Manual reset shall be required on subsequent low temperature alarm condition. The low temperature limit shall be serpentined on the outlet side of the hot water coil.

c. Start up: The air handling unit fans and dampers shall be energized when all the following conditions are met:

1) The air handling unit is turned on during the occupied mode through the Energy Management System.

2) Low temperature limit(s) are above 37 DegF.

3) The supply fan variable frequency drive starter is in the "Run" or "Auto" position.

d. Temperature Control:

1) Temperature Sensing: Temperature sensors shall be installed in the supply, return, outdoor and mixed air streams.

2) Space temperature sensors shall be provided to control the unit speed and discharge temperature as indicated below.

3) Temperature Setpoint: The air handling unit heating and cooling controls shall modulate to

maintain a discharge air temperature of 55 DegF when the average space temperature is above 70 DegF. When the average space temperature is below 70 DegF, the discharge air temperature shall be reset to 90 DegF (adjustable). The air handling unit speed shall be modulated to maintain space temperature. The air handler shall increase speed to delivery more 55-degree or 90-degree air to the space and then shall modulate back to the minimum air volume that will maintain space temperature. Once the air handler has reached minimum air flow, the 55-degree discharge shall ramp up and the 90 degree discharge ramp down to prevent over cooling or overheating.

e. Occupied Mode:

1) Heating mode shall be allowed only when the outdoor air temperature falls below 65 DegF. The DX shall be off and the hot water valve shall modulate open to maintain the supply air temperature setpoint. If the outdoor air temperature drops below 42 DegF, the hot water valve shall go to the full open position (normal position) to achieve supply air temperature setpoint.

2) Cooling mode shall be allowed only when the outdoor air temperature is above 65 DegF. The hot water valve shall be closed. A signal for cooling shall energize the condensing unit, and the system shall self modulate to maintain a discharge air temperature setpoint.

3) Minimum ventilation air volumes shall be set based on the air flows indicated on the drawings and equipment schedules.

4) Fans: The fan(s) shall operate continuously during occupied hours to provide ventilation.

f. Fan Speed Control:

1) Speed Setpoint:

2) The air handling unit supply fan speed shall modulate to maintain space temperature of 70F (adj) during heating mode, and 73F (adj) during cooling mode.

3) Alarms to be generated at low speed and at high speed as sensed by the fan motor current sensor.

g. Accessories:

1) Air handling unit filter differential pressure switches shall alarm when a preset limit is exceeded (0.60-inch w.g. (adj)).

h. Economizer:

1) Economizer program shall be able to run between outdoor air temperatures of 55F DB and 75F DB while outdoor air enthalpy is below 28 Btu/lb of dry air.

2) Provide differential enthalpy economizer operation to modulate outside air and relief air dampers from minimum outdoor air position to 100% outdoor air to maintain space temperature setpoint. Optimization control shall cycle cooling stages during economizer operation if deemed efficient to do so. Provide mixed air low limit control to prevent mixed air temperature from dropping below the discharge air temperature setpoint.

3) During economizer operation, the respective air handling unit's relief fan shall be commanded to start. The relief air damper is to track outdoor airflow CFM and modulate using the associated motorized damper to match the relief air with the outdoor air flow minus (-) toilet exhaust as per TAB report.

4) Once the economizer operation is to be stopped the outdoor air is to return to minimum outdoor air CFM and the associated relief fan to be shutoff with the relief air motorized dampers closed and the system to return to normal operation.

C. ENERGY RECOVERY VENTILATORS

Description	Points				Notes
	Input		Output		
	Binary	Analog	Binary	Analog	
Exhaust Filter Differential Pressure		X			A
Exhaust Air Temp		X			T
Exhaust Air Humidity		X			T
Exhaust Air Damper				X	T
Outside Air Filter Differential Pressure		X			A
Outside Air Temp		X			T
Outside Air Humidity		X			T
Outside Air Damper				X	T
ERV Status	X				
ERV Fault	X				T, A

1. General: The energy recovery ventilator shall consist of a supply fan, exhaust fan, energy recover cores, isolation dampers and filters.

2. Sequences:

a. General: Unit shall be energized and de-energized via enable/disable contact from Energy Management System.

b. Shut Down/Start Up:

1) Shutdown: The unit shall be disabled, and dampers shall closed under the following conditions:

a) Associated air handling unit is turned off through the Energy Management System.

b) The unit is turned off using the onboard selector switch.

2) Start up: The unit shall be enabled, and damper shall open under the following conditions:

a) The associated air handlung unit is turned on through the Energy Management System.

b) The unit is turned on using the onboard selector switch.

c. Accessories:

1) Air handling unit filter differential pressure switches shall alarm when a preset limit is exceeded (0.60-inch w.g. (adj)).

D. HOT WATER BOILER CONTROLS

Description	Points				Notes
	Input		Output		
	Binary	Analog	Binary	Analog	
Hot Water Return Temp		X			T
Hot Water Supply Temp		X			T, A
Boiler Hot Water Supply Temp Setpoint Reset				X	T
Boiler Alarm Status	X				T, A
Boiler Status	X				T
Low Water Level	X				T, A
Boiler Enable			X		
Outside Air Temp		X			T

1. Coordinate sequence with boiler manufacturer's integral control system for single boiler applications. Supply water temperature setpoint shall be adjustable thru BAS based on outdoor temperature reset schedule. On boiler graphics screen show system supply and return water temperature.
2. When a pump has proven operation for at least one minute, the boilers shall be enabled and the boiler manufacturer's control panel shall control the boilers. The boilers shall provide the discharge water temperature necessary to maintain the building distribution water supply temperature as determined by the reset schedule.
3. Provide building distribution water supply temperature reset based on ambient temperature. Also provide a manual water supply temperature setpoint schedule which overrides the reset schedule – heating plant

graphics screens shall indicate manual override operation whenever it is engaged.

4. If the heating hot water supply temperature varies by more than 10 degrees F from setpoint, an alarm shall be generated.
5. The BAS shall monitor the alarm status of each boiler's onboard controller and the glycol injection system, and generate a subsequent alarm.

E. HOT WATER PUMP CONTROL

Description	Points				Notes
	Input		Output		
	Binary	Analog	Binary	Analog	
Hot Water Pump VFD Speed (P-X-4 only)				X	T,
Hot Water Pump Status	X				T
Hot Water Pump Start/Stop			X		
Hot Water Pump VFD Fault	X				T, A

1. When outdoor temperature drops below 65 DegF the hot water pumps shall be energized.
2. Pumps 1 and 2 shall maintain a constant speed set during balancing and modulate associated 3-way valve to maintain space set temperature of 70 DegF (adj)
3. Pump 3 shall energize when C-wing space temperatures are below 70 DegF (adj)
4. and 4 pump speed shall be modulated to maintain a constant different pressure at a remote point in the distribution system as indicated on the drawings.

F. HOT WATER CABINET HEATERS

Description	Points				Notes
	Input		Output		
	Binary	Analog	Binary	Analog	
Discharge Air Temp		X			T
Zone Setpoint Adjust		X			
Zone Temp		X			T, A
Heating Valve				X	T
Fan Status	X				T
Fan Start/Stop			X		

1. General: The heaters consist of a supply fan, hot water heating coil, and 3-way modulating valve.

2. The DDC supplier shall provide all necessary appurtenances such as all sensors, relays, and control and communication wiring for a complete installation.

3. Sequences:
   1. General: The fan motors shall be energized and de energized via the Energy Management System.
   2. Shut Down/Start Up:
      a. Shut down: The cabinet heater fans shall be de energized under the following conditions:
         1) The heater is turned off through the Energy Management System.
         2) The heater is turned off using the selector switch on the start H-O-A switch.
            a) Start up: The heater fans shall be energized when all the following conditions are met:
         3) The heater is turned on during the occupied mode through the Energy Management System.
         4) The starter is in the "Hand" or "Auto" position.
      b. Temperature Control:
         1) Sensors: Temperature sensors shall be supplied mounted and wired as shown on the drawings.
         2) Temperature Setpoints: Each cabinet heater shall be assigned a temperature setpoint and throttling range.
      c. Occupied Mode (note unoccupied mode does not pertain to these units):
         1) Should the space temperature rise above setpoint the fan shall be de-energized.
         2) Should the space temperature drop below setpoint, the fan shall be energized

G. HOT WATER FINNED TUBE RADIATION

Description	Points				Notes
	Input		Output		
	Binary	Analog	Binary	Analog	
Zone Setpoint Adjust		X			
Zone Temp		X			T, A
Heating Valve				X	T

1. General: The finned tube radiation includes two way modulating control valve. The DDC supplier shall provide all necessary appurtenances such as valve actuators, sensors, relays, and control and communication wiring for a complete installation.
   1. Sequences:
      a. Temperature Control:

1) Sensors: Temperature sensors shall be supplied mounted and wired as shown on the drawings for each finned tube radiation section.

2) Temperature Setpoints: Each shall be assigned an occupied temperature setpoint and throttling range, and an unoccupied setpoint and throttling range.

b. Occupied Mode:

1) Heating Mode: Should the space temperature drop below setpoint (68 DegF) a heating demand signal shall be generated to energize the hot water pumps and the hot water valve shall modulate open to maintain setpoint.

END OF SECTION

SECTION 233301

SECURITY TYPE DUCTWORK ACCESSORIES

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Metal Ductwork: Section 233113.

1.02 REFERENCES

A. ACGIH: American Conference of Governmental Industrial Hygienists.

B. AMCA: Air Movement and Control Association.

C. NFPA: National Fire Protection Association.

D. SMACNA: Sheet Metal and Air Conditioning Contractors National Association, Inc.

E. UL: Underwriters Laboratories, Inc.

1.03 SUBMITTALS

A. Waiver of Submittals: The "Waiver of Certain Submittal Requirements" in Section 013300 does not apply to this Section.

B. Shop Drawings: Schedule listing manufacturer's model number and location for each security barrier.

C. Product Data:
   1. Catalog sheets, diagrams, standard schematic drawings, and installation instructions for each manufactured product.
   2. Submit SMACNA Figure Numbers for each shop fabricated item.
   3. Schedule: List type, manufacturer's model number, and location for the following:
      a. Security grilles.
      b. Security diffusers.
      c. Fire dampers.

D. Samples: When directed, submit one complete unit for each type of proposed air inlet and outlet device. Approved samples will be delivered to the job site for installation.

1.04 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Unless otherwise shown or specified, comply with the applicable requirements of the following:

a. SMACNA: Gages of materials, fabrication, sealing, and installation shall be in accordance with the SMACNA Manuals.
   1) HVAC Duct Construction Standards.
   2) Rectangular Industrial Duct Construction Standard.
b. ACGIH: Follow the Hood Design Data, and Construction Guidelines for Local Exhaust Systems from the Industrial Ventilation Manual.
c. AMCA: Certify damper and/or louver ratings in accordance with AMCA 511.
d. NFPA: Standards Nos. 90A, 90B, 91, 96, and 101.
e. UL: Standards No. UL555, and UL555S.

1.05 MAINTENANCE

A. Special Tools:
   1. One bar deflection key for every five supply grilles and/or every five return grilles.
   2. One operator key for every five supply registers and/or every 5 return or exhaust registers.
   3. Two keys or socket wrenches for each type of damper adjustment screw or device on manual damper regulators.
   4. One tool for each type and size Torx center pin fastener.

PART 2 PRODUCTS

2.01 SECURITY GRILLES AND REGISTERS

A. Unless otherwise specified, fabricate registers of steel with factory applied white baked-on enamel finish.

B. Fabricate grille, register faces, and frames of aluminum with an etched and acrylic coated finish when installed in shower, can washing, dishwasher, food serving and dining rooms, kitchens and swimming pool areas.

C. Mounting Frames for Grilles:
   1. Frames (Security Type): Fabricate frames, as shown in detail on drawings, of materials and finish to match mating grille or register face.
      a. Weld exposed joints and ground flush.
      b. Completely close corner joints with neatly welded back trim.

D. Staff Return (SRR) and Staff Exhaust (SER) Registers:
   1. Perforated Face Plate:
      a. Steel: Minimum 12 gage plate.
      b. Hole Size: 1/2 inch - 3/16 inch square holes.
      c. Hole Spacing: 11/16 inch - 1 inch on center.
   2. Damper: Opposed blade, constructed of steel, adjustable thru face with removable key.
   3. Register Sleeve: 10 gage cold rolled steel, formed with flanged face and welded seams.

E. Inmate Supply (ISR), Inmate Return (IRR) and Inmate Exhaust (IER) Registers:
1. Perforated Face Plate: Continuously welded to register sleeve.
   a. Steel: Minimum 12 gage plate.
   b. Hole Size: 1/4 inch dia. holes.
   c. Hole Spacing: 3/8 inch staggered centers.
2. Register Sleeve: 10 gage cold rolled steel formed with flanged face and welded seams.
3. Damper: Opposed blade, constructed of steel, adjustable thru face with removable key.

F. Inmate Exhaust Grille (IEG):
1. Face Plate: Continuously welded to grille sleeve.
   a. Steel: Minimum 3/16 inch steel plate.
   b. Hole Size: 1/4 inch diameter.
   c. Hole Spacing: 3/8 inch staggered centers.
2. Grille Sleeve: 10 gage cold rolled steel formed with welded seams.
3. Security Angle Frame: 1 x 1 x 3/16 inch shipped loose for field installation.
4. Security Bar: 1/2 inch x 1 inch plate steel bar, mounted vertically (horizontally as required) and welded to grille sleeve.

G. Toilet Room Exhaust (SHER-AL) Registers:
1. Face Plate: Continuously welded to register sleeve.
   a. Aluminum: Minimum 3/16 inch aluminum plate.
   b. Hole Size: 1/4 inch diameter holes.
   c. Hole Spacing: 3/8 inch staggered centers.
2. Damper: Opposed blade damper, fabricated of aluminum, adjustable thru face with removable key.
3. Register Sleeve: 8 gage aluminum, welded construction.
4. Security Angle Frame: 1 x 1 x 3/16 inch aluminum angles, shipped loose for field installation.

H. Non-Secure Return (NSRR) and Non Secure Exhaust (NSER) Registers: Fixed single deflection type.
1. Register Face: 20 gage steel construction of same material as bars.
2. Face Bars/Vanes: Installed in register face.
   a. Deflection Angle: 45 degrees.
   b. Nominal Bar/Vane Spacing: 0.66 inch or 0.75 inch on center.
3. Damper Assembly: Opposed multi-blade type consisting of frame of screwdriver slot blades, and key operated movement of the locking type.
   a. Operators: Key operated type projecting through frame or screwdriver slot. Operator keys are removable or may be permanently driven in place, as directed.
   b. Construction for use with Factory Painted Register Faces: Galvanized steel factory finished with baked on black enamel, unless otherwise approved by the Director's Representative.

I. Shower/Toilet Room Exhaust (E-X-1) Registers:
1. Face Plate: Continuously welded to register sleeve.
   a. Stainless Steel: Minimum 3/16 inch Stainless steel plate.
   b. Hole Size: 1/4 inch diameter holes.

c. Hole Spacing: 3/8 inch staggered centers.

2. Damper: Opposed blade damper, fabricated of stainless steel, adjustable thru face with removable key.
3. Register Sleeve: 8 gage stainless steel, welded construction.
4. Security Angle Frame: 1 x 1 x 3/16 inch stainless steel angles, shipped loose for field installation.

2.02 SECURITY AIR DIFFUSERS

A. Do not use neck or duct connection sizes indicated to size diffusers.

B. Staff Ceiling Diffusers (SCD):
1. Face Plate: Minimum 12 gage steel plate with 13/16 inch square holes on 1 inch centers.
2. Constructed of steel with reinforced welded corners, 4-way air pattern, and frame surface mounted on face plate with square neck.
3. Assembled with 1/4 inch -20 Torx center pin fasteners.
4. Damper: Opposed blade type installed in neck, and operated thru face plate with removable key.

2.03 DAMPERS

A. Fire Dampers, Dynamic Systems:
1. UL Classified and Labeled:
a. Mark dampers in accordance with UL555, including but not limited to the following:
1) Fire Damper, 1-1/2 hr fire resistance rating.
2) For use in dynamic systems.
3) Maximum rated air flow and pressure difference across damper.
4) Directional arrow indicating air flow.
5) Mounting position (horizontal or vertical, or both).
2. Acceptable Manufacturers:
a. Air Balance, Inc., or Ruskin Manufacturing Div., Phillips Industries.
1) Furnish Style, or Type B (blades out of air stream when damper in open position).

B. Manual Damper Regulators:
1. For Dampers Installed in Exposed, or Accessible Concealed Ductwork: Indicating quadrant with heavy metal handle, end bearing, and means for locking damper in all positions.
2. For Dampers Installed in Inaccessible Concealed Ductwork: Concealed type with indicating regulator in cast metal box with cover plate. Furnish assembly complete with duct end bearing, adjustment coupling, and damper extension rods.

2.04 TURNING VANE ASSEMBLIES

A. Fabricate vane assemblies of same material as ductwork in which installed.
   1. Vanes: Individual hollow airfoil type, rigidly connected to vane rails.
   2. Weld, screw, or rivet rails to ductwork.

2.05 FLEXIBLE CONNECTIONS - FABRIC

A. Static Pressures under 6 inches WG: Woven Fiberglass fabric with Hypalon coating; similar to Duro Dyne Corp.'s Durolon.

B. Factory prefabricated and pre-assembled connectors of fabric materials specified above are acceptable with minimum 24 gage galvanized steel edges similar to Duro Dyne Corp.'s Metal-Fab or Super Metal-Fab as required by free fabric length.

2.06 GASKET MATERIAL

A. Registers, Grilles, and Diffusers Installed in Exposed, Uninsulated Ductwork: 1/4 inch thick felt or sponge rubber material, of width as required by flange.

B. Flanged Joints in Ducts: 1/8 inch thick reinforced inert plastic of the self-conforming type, of same width as flange.
   1. Exception: Where flanged connections in cooking equipment exhaust ductwork is allowed by NFPA 96, make up joints with Fibrefrax Grade 110 Paper by Carborundum Co.

2.07 SEALANTS

A. Acceptable Manufacturers: Duro Dyne Corp.; Foster Products Div., H.B. Fuller Co.; Hardcast Inc.; United Sheet Metal Div., United McGill Corp.

B. U.L. Listed adhesives (liquid or mastic), scrim, tapes, or combinations thereof, as required for pressure class; suitable for system operating temperatures; compatible with media conveyed within, insulation (if any), and ambient conditions.

2.08 DUCT ACCESS DOORS

A. Prefabricated or Fabricated at Site: Minimum 12 x 12 inch size, of same material and finish as duct unless otherwise shown or specified.
   1. For uninsulated duct designed for under two inches wg: Fabricate single panel door of same gage as duct, with all edges folded, size door to overlap opening perimeter by one inch.
   2. For insulated duct and duct designed for two inches wg and over: Fabricate hollow metal doors in accordance with the SMACNA Manual. Fill void in doors for insulated duct with thermally equivalent insulation.

3. Gasketing: A 3/4 inch wide, 1/8 inch thick urethane gasket, around all four sides of duct opening.
   a. Exception: Where access doors are required by NFPA 96 in cooking equipment exhaust ductwork, gasket with Fibrefrax Grade 110 paper by Carborundum Co.

B. Access Door Hardware:
1. Piano Hinges: Galvanized steel with brass pins, continuous type, full height of door.
2. Butt Hinges: Galvanized steel with brass pins, approximately 2 inches x 1-9/16 inches wide for doors under 24 inches high and 3 inches x 2 inches wide for doors over 24 inches and higher.
3. Sash Locks: Galvanized, cadmium plated, or aluminized steel or cast aluminum.
4. Door Latches: Ventfabrics, Inc. Ventlock No. 260 or Duro Dyne Corp. Code No. SP-20 Series.

2.09 FUSIBLE LINK ATTACHMENTS

A. For Registers and Grilles: Factory installed spring arrangement with 160 degree F rated fusible links.

B. Thermally and Electrically Responsive Links: Air Balance's ETL electrothermal link.

2.10 FASTENERS

A. Bolts and Nuts: ASTM A 307, Grade A.
1. Concealed Bolts: Standard common bolts with lock washers and nuts. For items requiring servicing or replacement, drill the bolts and equip them with cotter pins and flat washers.
2. Exposed Bolts: Countersunk flathead security head Torx center pin bolts, with lock washers and nuts, unless otherwise specified.

B. Machine Screws: ANSI/ASME B18.6.3.
1. Concealed Machine Screws: Security head Torx center pin screws, unless otherwise specified.
2. Exposed Machine Screws: Countersunk flat head security head Torx center pin screws, unless otherwise specified.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Unless otherwise shown or specified, install the Work of this Section in accordance with the manufacturer's printed installation instructions and the SMACNA Manual.

3.02 FLEXIBLE FABRIC CONNECTORS (INSTALLATION)

A. Make ductwork connections to air handling equipment with flexible fabric connectors. Install connectors with sufficient slack to prevent vibration transmission.

B. Free Fabric Length: Install fabric connectors a minimum of three inches in length for ducts having a maximum diameter of 18 inches, or maximum side dimension of 30 inches, and a minimum of five inches in length for duct diameters over 18 inches or side dimensions over 30 inches.

C. Secure fabric connectors to fans, casings and ducts as follows:
   1. Rectangular Connectors: Secure with 1 inch x 1/8 inch thick flat galvanized steel bars, with screws or bolts on maximum 8 inch centers, or with approved sheet metal slip joints. Tightly crimp fabric into sheet metal joint and secure complete joint with sheet metal screws on maximum 6 inch centers.

D. Fabric connectors may be factory pre-fabricated pre-assembled units, with minimum No. 24 USS gage metal edges, secured to fabric with double lock seams.

E. Do not paint fabric connectors.

3.03 ACCESS DOORS

A. Install gasketed access doors in ductwork at each of the following:
   1. Major changes of direction in horizontal ducts connected to cooking equipment hoods.
   2. Motor operated dampers.
   3. Manually operated volume control devices.
   4. Fire dampers.
   5. All locations where operating parts of any kind are installed and elsewhere as indicated.
   6. In-line damper actuators installed in air stream.

B. Access doors are not required, where a manually operated damper has an exposed damper regulator, with an indicating quadrant.

3.04 CONCEALED DAMPER REGULATORS

A. Imbed box in, and secure to back-up construction in ceiling or wall, so cover plate is flush with final surface.

END OF SECTION

PLUMBING FIXTURES BY P-CONTRACT

TAG	DESCRIPTION
WC-1	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-2	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-3	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING IN EXISTING 6" CMU WALL AS NOTED ON DRAWING A-4510
WC-4	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-1	SHOWER BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-2	SHOWER BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
LAV-1	LAVATORY BY P CONTRACT.
LAV-2	LAVATORY BY P CONTRACT.

* **NOTE:** REFER TO DRAWING A-4510 FOR BLOCKOUT DETAILS

FLOOR PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF (ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED))	ROOM IDENTIFICATION TAG
	EXISTING DOOR AND FRAME
	EXISTING PARTITION/WALL

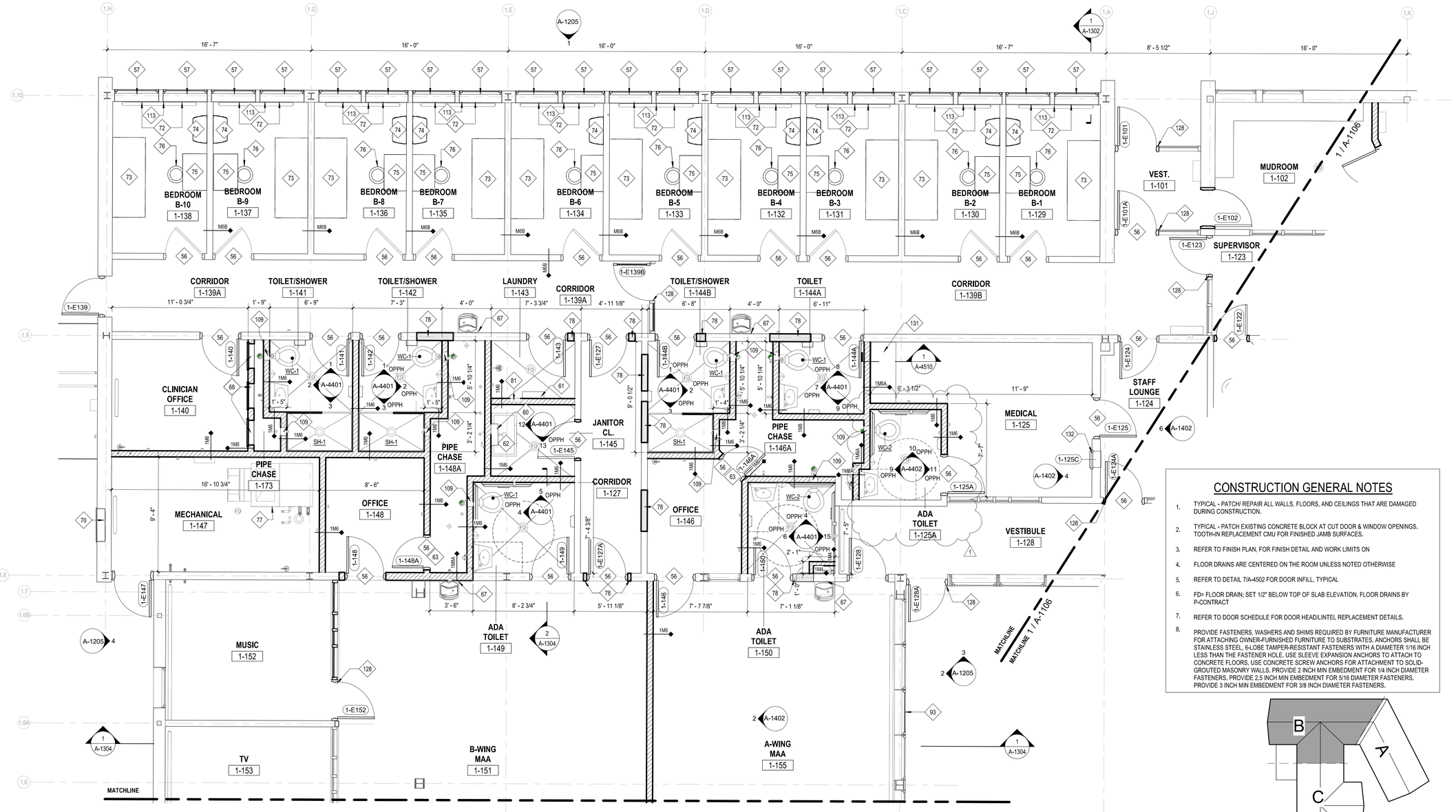
DM1	DOOR AND FRAME, DOOR TAG
Ø#1 PARTITION TYPE DESIGNATION	PARTITION & TYPE IDENTIFICATION
100.00'	SPOT ELEVATION
W1	WINDOW IDENTIFICATION TAG
FEC1	FIRE EXTINGUISHER IN WALL MOUNTED CABINET
FE1	FIRE EXTINGUISHER.HUNG WITH WALL BRACKET

CONSTRUCTION LEGEND

#	
56	PROVIDE LINTEL. REFER TO OVER DOOR PANEL REPLACEMENT DETAIL 5/A-4512 WHERE KEYNOTE 103 APPLIED IN THE REMOVALS.
57	PROVIDE WINDOW SYSTEM- COORDINATE SIZE OF OPENING WITH WINDOW SCHEDULE AND DETAILS.
60	MOP & BROOM HOLDER (M&BH)
61	LAUNDRY DETERGENT DISPENSER (LDD-SM)
62	JANITOR SINK, BY P-CONTRACT
63	RESILIENT THRESHOLD
67	PROVIDE WALL PATCHING BEHIND DRINKING FOUNTAIN BY P-CONTRACT (TYP.)
68	ACCESS DOOR 24"X24" REFERENCE DETAIL 5/A-4502
70	FIXED STEEL LOUVER. COORDINATE SIZE OF OPENING WITH LOUVER SCHEDULE AND DETAILS DRAWING.
72	PROVIDE 1/2" TYPE S-1 SECURITY GLAZING PANEL ON INSIDE FACE OF WINDOW FRAME, ATTACHED WITH TAMPERPROOF FASTENERS. REFER TO WINDOW DETAIL DRAWING.
73	INSTALL ATN130 SPACE-SAVER BED WITH STORAGE - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.
74	INSTALL ATN301 BOOK SHELF - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.

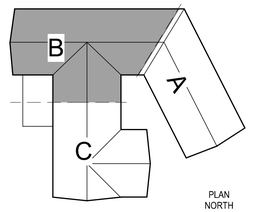
CONSTRUCTION LEGEND

#	
75	INSTALL ATN601 FLOOR-MOUNT DESK - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.
76	INSTALL ATN500 STOOL - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.
77	AIR HANDLING UNIT BY H-CONTRACT
78	INFILL AND PATCH AND PAINT WALLS, FLOORS AND CEILINGS TO MATCH ADJACENT SURFACES.
81	WASHING MACHINE BOX BY P-CONTRACT.
93	PROVIDE TYPE S-10 WINDOW GLAZING- COORDINATE SIZE OF OPENING WITH WINDOW SCHEDULE AND DETAILS
109	CUT WATERCLOSET BLOCKOUT FROM WALL. REFER TO BLOCKOUT DETAILS ON DRAWING A-4510.
113	SECURITY BARRIER BETWEEN UNDERSIDE OF WINDOW AND EXISTING HEATER. REFERENCE WALL SECTION 1/A-1302.
128	PATCH AND PAINT EXISTING DOOR FRAME IN ITS ENTIRETY. REFER TO THE DOOR SCHEDULE FOR INFORMATION.
131	PROVIDE WALL-MOUNTED COUNTER.
132	PROVIDE MED PASS THRU OPENING WITH SS COUNTER AND SHUTTER HOOD ABOVE OPENING. REFER TO INTERIOR ELEVATION TO COORDINATE SIZE OF OPENING AND DETAILS.



CONSTRUCTION GENERAL NOTES

1. TYPICAL - PATCH/ REPAIR ALL WALLS, FLOORS, AND CEILINGS THAT ARE DAMAGED DURING CONSTRUCTION.
2. TYPICAL - PATCH EXISTING CONCRETE BLOCK AT CUT DOOR & WINDOW OPENINGS. TOOTH-IN REPLACEMENT CMU FOR FINISHED JAMB SURFACES.
3. REFER TO FINISH PLAN, FOR FINISH DETAIL AND WORK LIMITS ON
4. FLOOR DRAINS ARE CENTERED ON THE ROOM UNLESS NOTED OTHERWISE
5. REFER TO DETAIL 7/A-4502 FOR DOOR INFILL, TYPICAL
6. FD= FLOOR DRAIN; SET 1/2" BELOW TOP OF SLAB ELEVATION. FLOOR DRAINS BY P-CONTRACT
7. REFER TO DOOR SCHEDULE FOR DOOR HEAD/LINTEL REPLACEMENT DETAILS.
8. PROVIDE FASTENERS, WASHERS AND SHIMS REQUIRED BY FURNITURE MANUFACTURER FOR ATTACHING OWNER-FURNISHED FURNITURE TO SUBSTRATES. ANCHORS SHALL BE STAINLESS STEEL, 6-LOBE TAMPER-RESISTANT FASTENERS WITH A DIAMETER 1/16 INCH LESS THAN THE FASTENER HOLE. USE SLEEVE EXPANSION ANCHORS TO ATTACH TO CONCRETE FLOORS. USE CONCRETE SCREW ANCHORS FOR ATTACHMENT TO SOLID-GROUTED MASONRY WALLS. PROVIDE 2 INCH MIN EMBEDMENT FOR 1/4 INCH DIAMETER FASTENERS. PROVIDE 2.5 INCH MIN EMBEDMENT FOR 5/16 DIAMETER FASTENERS. PROVIDE 3 INCH MIN EMBEDMENT FOR 3/8 INCH DIAMETER FASTENERS.



KEY PLAN B
NOT TO SCALE

PLAN NORTH

1 A-1107 **BUILDING 72 WING B ENLARGED PLAN**
1/4" = 1'-0"

PLAN NORTH

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:08:39 PM
36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26960 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2028

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, APO
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 72 WING B ENLARGED PLAN

DRAWING NUMBER:
A-1107

SHEET: OF

1 A-1110 **BLDG 72 REFLECTED CEILING PLAN**

1/8" = 1'-0"

PLAN NORTH

GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

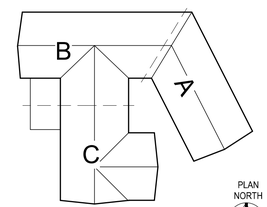
CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF	ROOM IDENTIFICATION TAG
7'-0" Type	CEILING HEIGHT/TYPE TAG ME - MATCH EXISTING
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC, REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM TYPE: **MPCS-1** SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING TYPE: **MPCS-2** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX ~LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE / Xx DIRECTIONAL / Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST / RETURN / SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL, SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
1-103	(1) PANEL	1-131	(1) PANEL
1-104	(1) PANEL	1-132	(1) PANEL
1-105	(1) PANEL	1-133	(1) PANEL
1-106	(1) PANEL	1-134	(1) PANEL
1-107	(1) PANEL	1-135	(1) PANEL
1-108	(1) PANEL	1-136	(1) PANEL
1-109	(1) PANEL	1-137	(1) PANEL
1-110	(1) PANEL	1-138	(1) PANEL
1-111	(1) PANEL	1-151	(7) PANEL
1-112	(1) PANEL	1-152	(1) PANEL
1-113	(1) PANEL	1-153	(1) PANEL
1-119	(3) PANEL	1-154	(1) PANEL
1-127	(3) PANEL	1-155	(7) PANEL
1-129	(1) PANEL	1-157	(2) PANEL
1-130	(1) PANEL	1-159	(2) PANEL
		1-160	(1) PANEL
TOTAL PANELS:		(49) ACCESS PANELS	

* PANELS ARE REELECTING QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.



KEY PLAN
NOT TO SCALE

PLAN NORTH

NEW YORK STATE OF OPPORTUNITY. | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
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REGISTERED ARCHITECT BRUCE T. BAILEY NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, APO
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 72 FIRST FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER:
A-1110

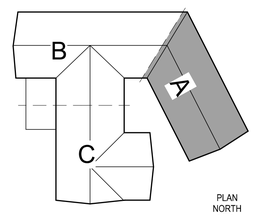
SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:08:41 PM
36x24 PLOT SHEET

1 / A-1111 **BLDG 72 WING A REFLECTED CEILING PLAN**

1/4" = 1'-0"

PLAN NORTH



KEY PLAN A

NOT TO SCALE

PLAN NORTH

CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF	ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED) — ROOM IDENTIFICATION TAG
7'-0" Typ.	CEILING HEIGHT, CEILING TYPE — CEILING HEIGHT/TYPE TAG; ME - MATCH EXISTING
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC, REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS. TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM. TYPE: **MPCS-1**. SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING. TYPE: **MPCS-2**. SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING. TYPE: **MPCS-3**. SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL. TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT. TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE / Xx DIRECTIONAL / Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST / RETURN / SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL, SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

CONSTRUCTION LEGEND

96	CABINET UNIT HEATER BY H-CONTRACT

GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
1-103	(1) PANEL	1-131	(1) PANEL
1-104	(1) PANEL	1-132	(1) PANEL
1-105	(1) PANEL	1-133	(1) PANEL
1-106	(1) PANEL	1-134	(1) PANEL
1-107	(1) PANEL	1-135	(1) PANEL
1-108	(1) PANEL	1-136	(1) PANEL
1-109	(1) PANEL	1-137	(1) PANEL
1-110	(1) PANEL	1-138	(1) PANEL
1-111	(1) PANEL	1-151	(7) PANEL
1-112	(1) PANEL	1-152	(1) PANEL
1-113	(1) PANEL	1-153	(1) PANEL
1-119	(3) PANEL	1-154	(1) PANEL
1-127	(3) PANEL	1-155	(7) PANEL
1-129	(1) PANEL	1-157	(2) PANEL
1-130	(1) PANEL	1-159	(2) PANEL
		1-160	(1) PANEL
TOTAL PANELS:	(49) ACCESS PANELS		

* PANELS ARE REELECTING QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.

NEW YORK STATE OF OPPORTUNITY. | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES

Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:

CONSTRUCTION

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

BUILDING 72 WING A ENLARGED REFLECTED CEILING PLAN

DRAWING NUMBER:

A-1111

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
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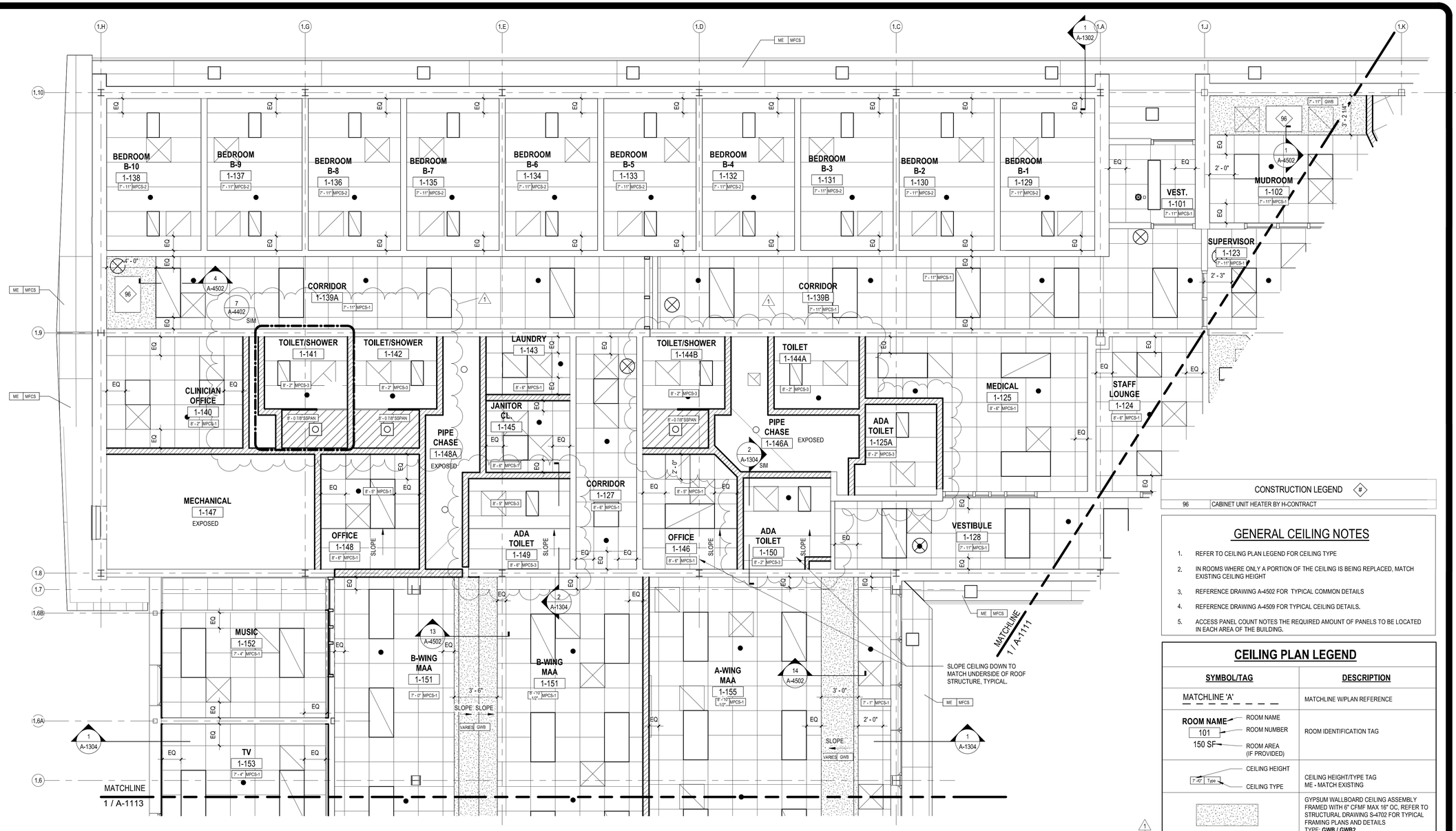
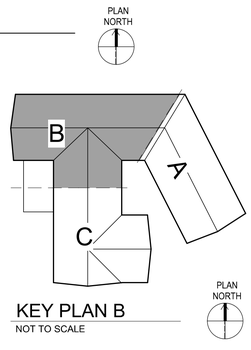
36x24 PLOT SHEET



1 BUILDING 72 WING B ENLARGED REFLECTED CEILING PLAN
A-1112 — 1/4" = 1'-0"



CONSTRUCTION LEGEND

#	
96	CABINET UNIT HEATER BY H-CONTRACT

GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF	ROOM IDENTIFICATION TAG (ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED))
7'-0" Type	CEILING HEIGHT/TYPE TAG (CEILING HEIGHT, CEILING TYPE) ME - MATCH EXISTING
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC. REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM TYPE: **MPCS-1** SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING TYPE: **MPCS-2** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE / Xx DIRECTIONAL / Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST / RETURN / SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL, SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
1-103	(1) PANEL	1-131	(1) PANEL
1-104	(1) PANEL	1-132	(1) PANEL
1-105	(1) PANEL	1-133	(1) PANEL
1-106	(1) PANEL	1-134	(1) PANEL
1-107	(1) PANEL	1-135	(1) PANEL
1-108	(1) PANEL	1-136	(1) PANEL
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1-113	(1) PANEL	1-153	(1) PANEL
1-119	(3) PANEL	1-154	(1) PANEL
1-127	(3) PANEL	1-155	(7) PANEL
1-129	(1) PANEL	1-157	(2) PANEL
1-130	(1) PANEL	1-159	(2) PANEL
		1-160	(1) PANEL
TOTAL PANELS:	(49) ACCESS PANELS		

* PANELS ARE REELECTING QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 72 WING B ENLARGED REFLECTED CEILING PLAN

DRAWING NUMBER:
A-1112

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
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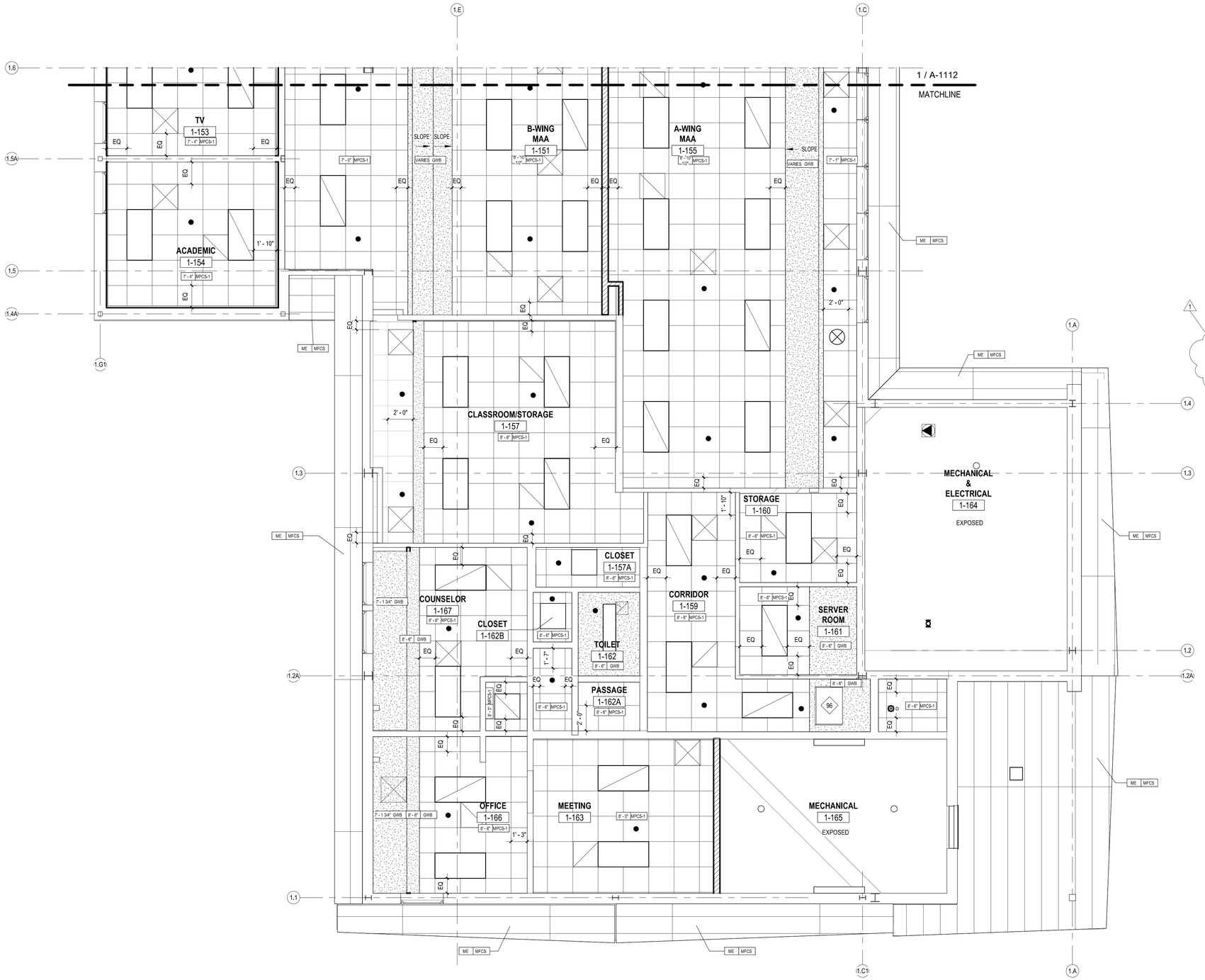
CONSTRUCTION LEGEND	#
96	CABINET UNIT HEATER BY H-CONTRACT



GENERAL CEILING NOTES

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4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF (ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED))	ROOM IDENTIFICATION TAG
7'-0" Type (CEILING HEIGHT, CEILING TYPE)	CEILING HEIGHT/TYPE TAG ME - MATCH EXISTING
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	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE; Xx DIRECTIONAL; Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST; RETURN; SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL, SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

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1-110	(1) PANEL	1-138	(1) PANEL
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1-127	(3) PANEL	1-155	(7) PANEL
1-129	(1) PANEL	1-157	(2) PANEL
1-130	(1) PANEL	1-159	(2) PANEL
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TOTAL PANELS:	(49) ACCESS PANELS		

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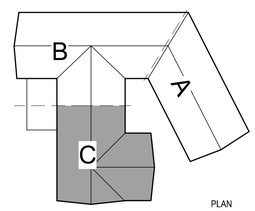

KEY PLAN C
NOT TO SCALE

PLAN NORTH

1 / A-1113 **BUILDING 72 WING C ENLARGED REFLECTED CEILING PLAN**
1/4" = 1'-0"

PLAN NORTH

NEW YORK STATE OF OPPORTUNITY. Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental
CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 72 WING C ENLARGED REFLECTED CEILING PLAN

DRAWING NUMBER:
A-1113

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
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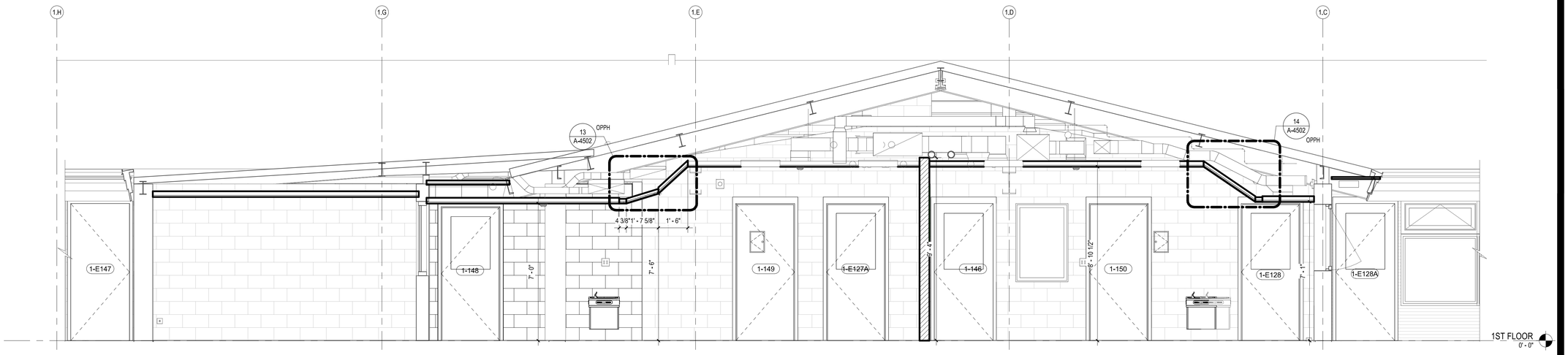
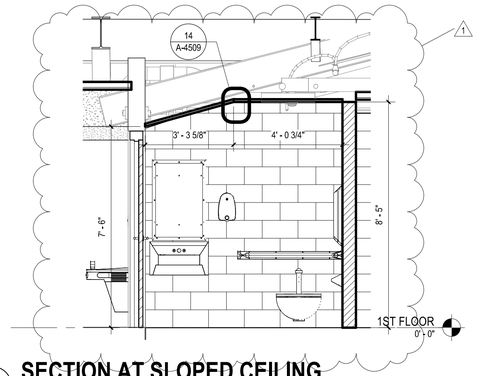


1 A-1304 **WING C SECTION**

3/8" = 1'-0"



2 A-1304 **SECTION AT SLOPED CEILING**

3/8" = 1'-0"

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:08:56 PM
36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT BRUCE T. BIKULA NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:

CONSTRUCTION

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, APO
FIELD CHECK:	
APPROVED:	

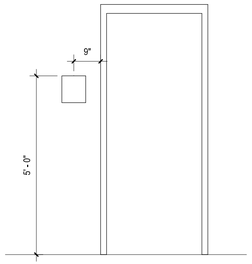
SHEET TITLE:

BUILDING 72 SECTIONS

DRAWING NUMBER:

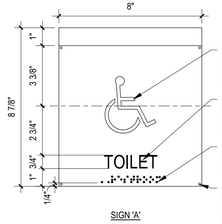
A-1304

SHEET: OF



SIGNAGE LOCATION

2 A-1605 — 1/2" = 1'-0"



SIGN 'A'

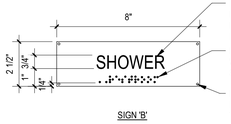
ENGRAVED PLASTIC (ESP) 3" HIGH INTERNATIONAL HANDICAP SYMBOL, WHITE COLOR

ENGRAVED PLASTIC (ESP) ROOM NAME: LETTERS IN WHITE COLOR, SEE FINISH SCHEDULE FOR TEXT

ROOM NAME: RAISED BRAILLE IN WHITE COLOR, SEE FINISH SCHEDULE FOR TEXT

MECHANICAL MOUNTING (MM) FULL THREADED SCREWS WITH TAMPER-RESISTANT HEADS.

COPY STYLE 4: HELVETICA MEDIUM, UPPER CASE, 3/4" HEIGHT, WITH HANDICAPPED ACCESSIBILITY PICTOGRAM AND GRADE 2 BRAILLE BELOW COPY.



SIGN 'B'

ENGRAVED PLASTIC (ESP)ROOM NAME: CENTER COPR (CC) LETTERS IN WHITE COLOR, SEE FINISH SCHEDULE FOR TEXT

ROOM NAME: RAISED BRAILLE IN WHITE COLOR, SEE FINISH SCHEDULE FOR TEXT

MECHANICAL MOUNTING (MM) FULL THREADED SCREWS WITH TAMPER-RESISTANT HEADS.

COPY STYLE 1: HELVETICA MEDIUM, UPPER CASE, 3/4" HEIGHT, WITH GRADE 2 BRAILLE BELOW COPY.

SIGN DETAIL

1 A-1606 — 3" = 1'-0"

ABBREVIATIONS

CMU	CONCRETE MASONRY UNIT
CONC	EXPOSED CONCRETE
ECT	EPOXY RESIN FLOORING
GWB-1	GYPSUM WALL BOARD - MOLD AND MOISTURE RESISTANT, POLYCARBONATE-BACKED
HBGC-3	HIGH BUILD GLAZED COATING
IAL-2	SEE SPECIFICATION SECTION 099101 FOR DESCRIPTION
IAL-3	SEE SPECIFICATION SECTION 099101 FOR DESCRIPTION
MPCS-1	SUSPENDED METAL PANEL CEILING SYSTEM
MPCS-2	METAL PLANK CEILING SYSTEM
MPCS-3	SS METAL PLANK CEILING SYSTEM
RB	RESILIENT BASE
VT1	VINYL TILE 1
TB	TILE BASE
EXIST	EXISTING TO REMAIN

BUILDING 72 ROOM FINISH FLOOR PLAN

3 A-1605 — 1/8" = 1'-0"

PLAN NORTH

BUILDING 72 - ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING TYPE	ROOM SIGN TYPE	SIGN MESSAGE	REMARKS
1-101	VEST.	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-	-	
1-102	MUDROOM	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-	-	CERAMIC MOSAIC TILE TO MATCH EXISTING
1-102A	JANITOR CL.	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-1	B	JANITOR CLOSET	
1-103	OBSERVATION A-1	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	OBSERVATION A-1	
1-104	BEDROOM A-2	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-2	
1-105	BEDROOM A-3	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-3	
1-106	BEDROOM A-4	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-4	
1-107	BEDROOM A-5	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-5	
1-108	BEDROOM A-6	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-6	
1-109	BEDROOM A-7	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-7	
1-110	BEDROOM A-8	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-8	
1-111	BEDROOM A-9	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-9	
1-112	BEDROOM WETROOM A-10	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-10	
1-113	BEDROOM WETROOM A-11	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-11	
1-114	OUTDOOR STORAGE	CONC	-	IAL-2	PREFINISHED	MPCS-1	B	EXIT	
1-115	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
1-116	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
1-117	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
1-118	LAUNDRY	ECT	ECT	IAL-2	PREFINISHED	MPCS-1			
1-119	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
1-120	LINEN	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
1-121A	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
1-121B	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	EXIT	
1-122	TOILET	EXIST.	EXIST.	IAL-3	IAL-3	GWB-1			
1-123	SUPERVISOR	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
1-124	STAFF LOUNGE	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			WEST WALL: PATCH, PRIME & PAINT EXISTING GYPSUM BOARD AT DOOR AND MED PASS THRU OPENING. DO NOT PAINT EXISTING BRICK PILASTER
1-125	MEDICAL	ECT	RB	IAL-2	PREFINISHED	MPCS-1			
1-125A	ADA TOILET	ECT	ECT	IAL-2	PREFINISHED	MPCS-3	A	TOILET	
1-126	MECHANICAL	CONC	-	IAL-2	NONE	-	B	EXIT	
1-127	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
1-128	VESTIBULE	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
1-129	BEDROOM B-1	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-1	SS PANEL AT UNDERSIDE OF WINDOW
1-130	BEDROOM B-2	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-2	SS PANEL AT UNDERSIDE OF WINDOW
1-131	BEDROOM B-3	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-3	SS PANEL AT UNDERSIDE OF WINDOW
1-132	BEDROOM B-4	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-4	SS PANEL AT UNDERSIDE OF WINDOW
1-133	BEDROOM B-5	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-5	SS PANEL AT UNDERSIDE OF WINDOW
1-134	BEDROOM B-6	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-6	SS PANEL AT UNDERSIDE OF WINDOW
1-135	BEDROOM B-7	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-7	SS PANEL AT UNDERSIDE OF WINDOW
1-136	BEDROOM B-8	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-8	SS PANEL AT UNDERSIDE OF WINDOW
1-137	BEDROOM B-9	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-9	SS PANEL AT UNDERSIDE OF WINDOW
1-138	BEDROOM B-10	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-10	SS PANEL AT UNDERSIDE OF WINDOW
1-139A	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	EXIT	
1-139B	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
1-140	CLINICIAN OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1			WEST WALL: PREP EXISTING FULL-HEIGHT GLAZED CMU WALL FINISH FOR PAINT.
1-141	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER. NORTH WALL: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
1-142	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER. NORTH WALL: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
1-143	LAUNDRY	ECT	ECT	IAL-2	PREFINISHED	MPCS-1			
1-144A	TOILET	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
1-144B	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
1-145	JANITOR CL.	ECT	ECT	IAL-2	PREFINISHED	MPCS-1	B	JANITOR CLOSET	EAST WALL: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
1-146	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	OFFICE	
1-146A	PIPE CHASE	CONC	-	-	NONE	-	-	-	
1-147	MECHANICAL	CONC	-	IAL-2	NONE	-	B	EXIT	WEST & SOUTH WALL: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
1-148	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	OFFICE	
1-148A	PIPE CHASE	CONC	-	-	NONE	-	-	-	
1-148D	PIPE CHASE	CONC	-	-	NONE	-	-	-	
1-149	ADA TOILET	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	A	TOILET	EAST WALL: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
1-150	ADA TOILET	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	A	TOILET	
1-151	B-WING MAA	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
1-152	MUSIC	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
1-153	TV	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
1-154	ACADEMIC	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
1-155	A-WING MAA	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
1-157	CLASSROOM/STORAGE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B (2 SIGNS)	CLASSROOM	PRIME & PAINT BOTH GYPSUM BOARD AND EXISTING CMU SURFACES
1-157A	CLOSET	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
1-159	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
1-160	STORAGE	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
1-161	SERVER ROOM	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
1-162	TOILET	EXIST.	EXIST.	IAL-2	IAL-3	GWB-1	B	TOILET	
1-162A	PASSAGE	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
1-162B	CLOSET	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
1-163	MEETING	VT1	RB		NONE	MPCS-1			
1-164	MECHANICAL & ELECTRICAL	EXIST.	-	IAL-2	NONE	-			
1-165	MECHANICAL	CONC	-	IAL-2	NONE	-	B	MECHANICAL	
1-166	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	OFFICE	
1-167	COUNSELOR	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
1-173	PIPE CHASE	CONC			NONE				

NOTES:
1. REFER TO DOOR SCHEDULE FOR DOOR & FRAME PAINTING
2. PAINT ALL WINDOW FRAMES IN ROOMS SCHEDULED TO BE PAINTED
3. PAINT ALL GYPSUM BOARD SOFFITS IN ROOMS SCHEDULED TO BE PAINTED
4. PAINT FULL ROOM UNLESS PAINT LIMITS ARE INDICATED ON DRAWINGS
5. PIPE CHASE SPACES TO RECEIVE CONC FLOOR W/ HARDENER, NO CEILINGS & NO PAINT
6. EXPOSED CONCRETE SURFACES SHALL RECEIVE HARDENER
7. SIGNAGE TO BE PLACED IN THE LOCATIONS INDICATED ON THE FINISHES PLANS (OUTSIDE OF THEIR RESPECTIVE ROOMS)
8. REFER TO REFLECTED CEILING PLANS FOR CEILING FINISH
9. EPOXY RESIN WALL BASE TO BE 8" HIGH
10. REFER TO SPECIFICATION SECTION 101423 SIGNS FOR INFORMATION ABOUT SIGN MOUNTING LOCATIONS, COPY POSITION, COPY STYLE, MOUNTING MATERIALS,GRAPHIC PROCESS, AND SIGN TYPE.
11. REFER TO 12/4502 FOR DRAIN DETAIL
12. PAINT SHOWER CEILINGS BEFORE INSTALLING STAINLESS STEEL PANEL SYSTEM.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT — JEFFREY T. BRADLEY — NO. 026905 — STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT: CONSTRUCTION

TITLE: PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION: INDUSTRY LIMITED SECURE CENTER, 375 RUSH-SCOTTSVILLE ROAD, RUSH, NY 14543

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, APO
FIELD CHECK:	
APPROVED:	

SHEET TITLE: BUILDING 72 ROOM FINISH SCHEDULE

DRAWING NUMBER: A-1605

SHEET: OF

Autodesk Docs://45682 Industry 72_ 73_ 74/OGS BedBath Upgrades_ Bldg-74_ V22.nt
7/10/2025 5:09:18 PM
38x24 PLOT SHEET

PLUMBING FIXTURES BY P-CONTRACT

TAG	DESCRIPTION
WC-1	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-2	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-3	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING IN EXISTING 6" CMU WALL AS NOTED ON DRAWING A-4510
WC-4	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-1	SHOWER BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-2	SHOWER BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
LAV-1	LAVATORY BY P CONTRACT.
LAV-2	LAVATORY BY P CONTRACT.

* **NOTE:** REFER TO DRAWING A-4510 FOR BLOCKOUT DETAILS

FLOOR PLAN LEGEND

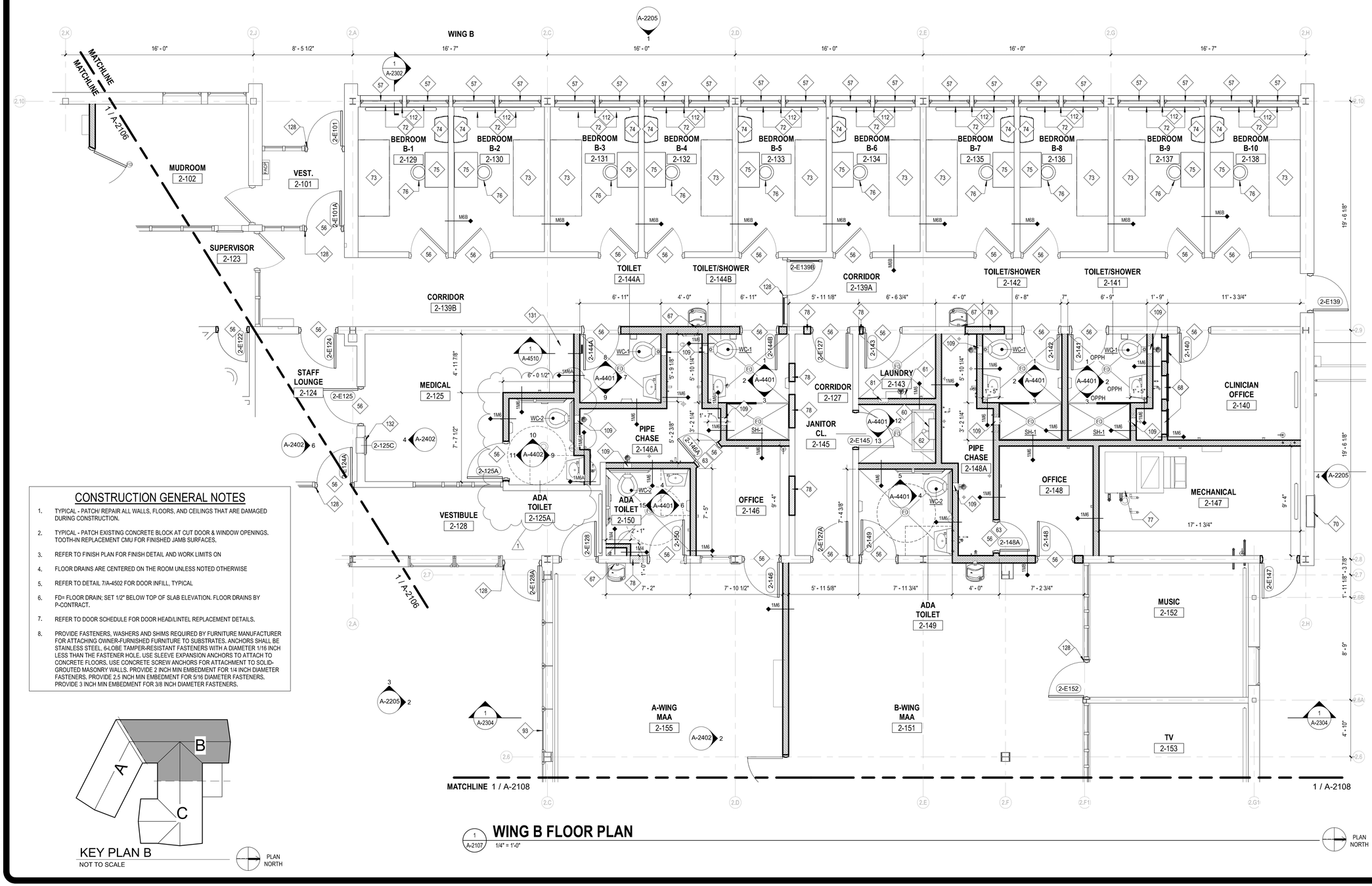
SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF (ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED))	ROOM IDENTIFICATION TAG
	EXISTING DOOR AND FRAME
	EXISTING PARTITION/WALL
DH-1	DOOR AND FRAME, DOOR TAG
04A PARTITION TYPE DESIGNATION	PARTITION & TYPE IDENTIFICATION
100.00'	SPOT ELEVATION
W1	WINDOW IDENTIFICATION TAG
FEC1	FIRE EXTINGUISHER IN WALL MOUNTED CABINET
FE1	FIRE EXTINGUISHER HUNG WITH WALL BRACKET

CONSTRUCTION LEGEND

#	
56	PROVIDE LINTEL. REFER TO OVER DOOR PANEL REPLACEMENT DETAIL 5/A-4512 WHERE KEYNOTE 103 APPLIED IN THE REMOVALS.
57	PROVIDE WINDOW SYSTEM- COORDINATE SIZE OF OPENING WITH WINDOW SCHEDULE AND DETAILS.
60	MOP & BROOM HOLDER (M&BH)
61	LAUNDRY DETERGENT DISPENSER (LDD-SM)
62	JANITOR SINK, BY P-CONTRACT
63	RESILIENT THRESHOLD
67	PROVIDE WALL PATCHING BEHIND DRINKING FOUNTAIN BY P-CONTRACT (TYP.)
68	ACCESS DOOR 24"X24" REFERENCE DETAIL 5/A-4502
70	FIXED STEEL LOUVER. COORDINATE SIZE OF OPENING WITH LOUVER SCHEDULE AND DETAILS DRAWING.
72	PROVIDE 1/2" TYPE S-1 SECURITY GLAZING PANEL ON INSIDE FACE OF WINDOW FRAME, ATTACHED WITH TAMPERPROOF FASTENERS. REFER TO WINDOW DETAIL DRAWING.
73	INSTALL ATN130 SPACE-SAVER BED WITH STORAGE - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.
74	INSTALL ATN301 BOOK SHELF - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.

CONSTRUCTION LEGEND

#	
75	INSTALL ATN601 FLOOR-MOUNT DESK - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.
76	INSTALL ATN500 STOOL - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.
77	AIR HANDLING UNIT BY H-CONTRACT
78	INFILL AND PATCH AND PAINT WALLS, FLOORS AND CEILINGS TO MATCH ADJACENT SURFACES.
81	WASHING MACHINE BOX BY P-CONTRACT.
93	PROVIDE TYPE S-10 WINDOW GLAZING- COORDINATE SIZE OF OPENING WITH WINDOW SCHEDULE AND DETAILS
109	CUT WATERCLOSET BLOCKOUT FROM WALL. REFER TO BLOCKOUT DETAILS ON DRAWING A-4510.
112	SECURITY BARRIER BETWEEN UNDERSIDE OF WINDOW AND EXISTING HEATER. REFERENCE WALL SECTION 1/A-2302.
128	PATCH AND PAINT EXISTING DOOR FRAME IN ITS ENTIRETY. REFER TO THE DOOR SCHEDULE FOR INFORMATION.
131	PROVIDE WALL-MOUNTED COUNTER.
132	PROVIDE MED PASS THRU OPENING WITH SS COUNTER AND SHUTTER HOOD ABOVE OPENING. REFER TO INTERIOR ELEVATION TO COORDINATE SIZE OF OPENING AND DETAILS.



CONSTRUCTION GENERAL NOTES

1. TYPICAL - PATCH/ REPAIR ALL WALLS, FLOORS, AND CEILINGS THAT ARE DAMAGED DURING CONSTRUCTION.
2. TYPICAL - PATCH EXISTING CONCRETE BLOCK AT CUT DOOR & WINDOW OPENINGS. TOOTH-IN REPLACEMENT CMU FOR FINISHED JAMB SURFACES.
3. REFER TO FINISH PLAN FOR FINISH DETAIL AND WORK LIMITS ON
4. FLOOR DRAINS ARE CENTERED ON THE ROOM UNLESS NOTED OTHERWISE
5. REFER TO DETAIL 7/A-4502 FOR DOOR INFILL, TYPICAL
6. FD= FLOOR DRAIN; SET 1/2" BELOW TOP OF SLAB ELEVATION. FLOOR DRAINS BY P-CONTRACT.
7. REFER TO DOOR SCHEDULE FOR DOOR HEAD/LINTEL REPLACEMENT DETAILS.
8. PROVIDE FASTENERS, WASHERS AND SHIMS REQUIRED BY FURNITURE MANUFACTURER FOR ATTACHING OWNER-FURNISHED FURNITURE TO SUBSTRATES. ANCHORS SHALL BE STAINLESS STEEL, 6-LOBE TAMPER-RESISTANT FASTENERS WITH A DIAMETER 1/16 INCH LESS THAN THE FASTENER HOLE. USE SLEEVE EXPANSION ANCHORS TO ATTACH TO CONCRETE FLOORS. USE CONCRETE SCREW ANCHORS FOR ATTACHMENT TO SOLID-GROUTED MASONRY WALLS. PROVIDE 2 INCH MIN EMBEDMENT FOR 1/4 INCH DIAMETER FASTENERS. PROVIDE 2.5 INCH MIN EMBEDMENT FOR 5/16 DIAMETER FASTENERS. PROVIDE 3 INCH MIN EMBEDMENT FOR 3/8 INCH DIAMETER FASTENERS.

KEY PLAN B
NOT TO SCALE

PLAN NORTH

WING B FLOOR PLAN

1 / A-2107 — 1/4" = 1'-0"

PLAN NORTH

NEW YORK STATE OF OPPORTUNITY. Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

1	07/11/2025	ADDENDUM #2
MARK	DATE	DESCRIPTION

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	APO, JB, LM
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 73 WING B ENLARGED PLAN

DRAWING NUMBER:
A-2107

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:09:28 PM
36x24 PLOT SHEET

NOTE: WORK AREA ENCOMPASSES ENTIRETY OF BUILDING.

1 / A-2110 **REFLECTED CEILING PLAN**

1/8" = 1'-0"

PLAN NORTH

GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

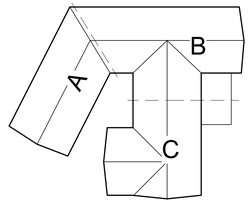
CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF (ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED))	ROOM IDENTIFICATION TAG
7'-0" Type (CEILING HEIGHT, CEILING TYPE)	CEILING HEIGHT/TYPE TAG ME - MATCH EXISTING
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC, REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM TYPE: **MPCS-1** SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING TYPE: **MPCS-2** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE; Xx DIRECTIONAL; Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST; RETURN; SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL, SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
2-103	(1) PANEL	2-131	(1) PANEL
2-104	(1) PANEL	2-132	(1) PANEL
2-105	(1) PANEL	2-133	(1) PANEL
2-106	(1) PANEL	2-134	(1) PANEL
2-107	(1) PANEL	2-135	(1) PANEL
2-108	(1) PANEL	2-136	(1) PANEL
2-109	(1) PANEL	2-137	(1) PANEL
2-110	(1) PANEL	2-138	(1) PANEL
2-111	(1) PANEL	2-151	(7) PANEL
2-112	(1) PANEL	2-152	(1) PANEL
2-113	(1) PANEL	2-153	(1) PANEL
2-119	(3) PANEL	2-154	(1) PANEL
2-127	(3) PANEL	2-155	(7) PANEL
2-129	(1) PANEL	2-157	(2) PANEL
2-130	(1) PANEL	2-159	(2) PANEL
		2-160	(1) PANEL
TOTAL PANELS:	(49) ACCESS PANELS		

* PANELS ARE REELECTING THE QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.



KEY PLAN
NOT TO SCALE

PLAN NORTH

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
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REGISTERED ARCHITECT BRUCE T. BAILEY NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, APO
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 73 FIRST FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER:
A-2110

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:09:36 PM
36x24 PLOT SHEET

CONSTRUCTION LEGEND	#
96	CABINET UNIT HEATER BY H-CONTRACT

CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF	ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED) — ROOM IDENTIFICATION TAG
7'-0" / Type	CEILING HEIGHT, CEILING TYPE — CEILING HEIGHT/TYPE TAG ME - MATCH EXISTING
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC, REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM TYPE: **MPCS-1** SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING TYPE: **MPCS-2** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE / Xx DIRECTIONAL / Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST / RETURN / SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL, SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

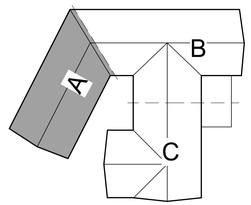
GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
2-103	(1) PANEL	2-131	(1) PANEL
2-104	(1) PANEL	2-132	(1) PANEL
2-105	(1) PANEL	2-133	(1) PANEL
2-106	(1) PANEL	2-134	(1) PANEL
2-107	(1) PANEL	2-135	(1) PANEL
2-108	(1) PANEL	2-136	(1) PANEL
2-109	(1) PANEL	2-137	(1) PANEL
2-110	(1) PANEL	2-138	(1) PANEL
2-111	(1) PANEL	2-151	(7) PANEL
2-112	(1) PANEL	2-152	(1) PANEL
2-113	(1) PANEL	2-153	(1) PANEL
2-119	(3) PANEL	2-154	(1) PANEL
2-127	(3) PANEL	2-155	(7) PANEL
2-129	(1) PANEL	2-157	(2) PANEL
2-130	(1) PANEL	2-159	(2) PANEL
		2-160	(1) PANEL
TOTAL PANELS:	(49) ACCESS PANELS		

* PANELS ARE REELECTING THE QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.



KEY PLAN A
NOT TO SCALE
PLAN NORTH

1 A-2111 **WING A REFLECTED CEILING PLAN**
1/4" = 1'-0"
PLAN NORTH

NEW YORK STATE OF OPPORTUNITY. Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT:
CERTIFICATE OF AUTHORIZATION #: 018342
CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental
CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26980 STATE OF NEW YORK
REGISTRATION EXPIRES: 04/30/2026

CONTRACT: CONSTRUCTION

TITLE: PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION: INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER: 45682-C
DESIGNED BY: BB
DRAWN BY: JB, AF
FIELD CHECK:
APPROVED:

SHEET TITLE: BLDG 73 WING A ENLARGED REFLECTED CEILING PLAN

DRAWING NUMBER: A-2111

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
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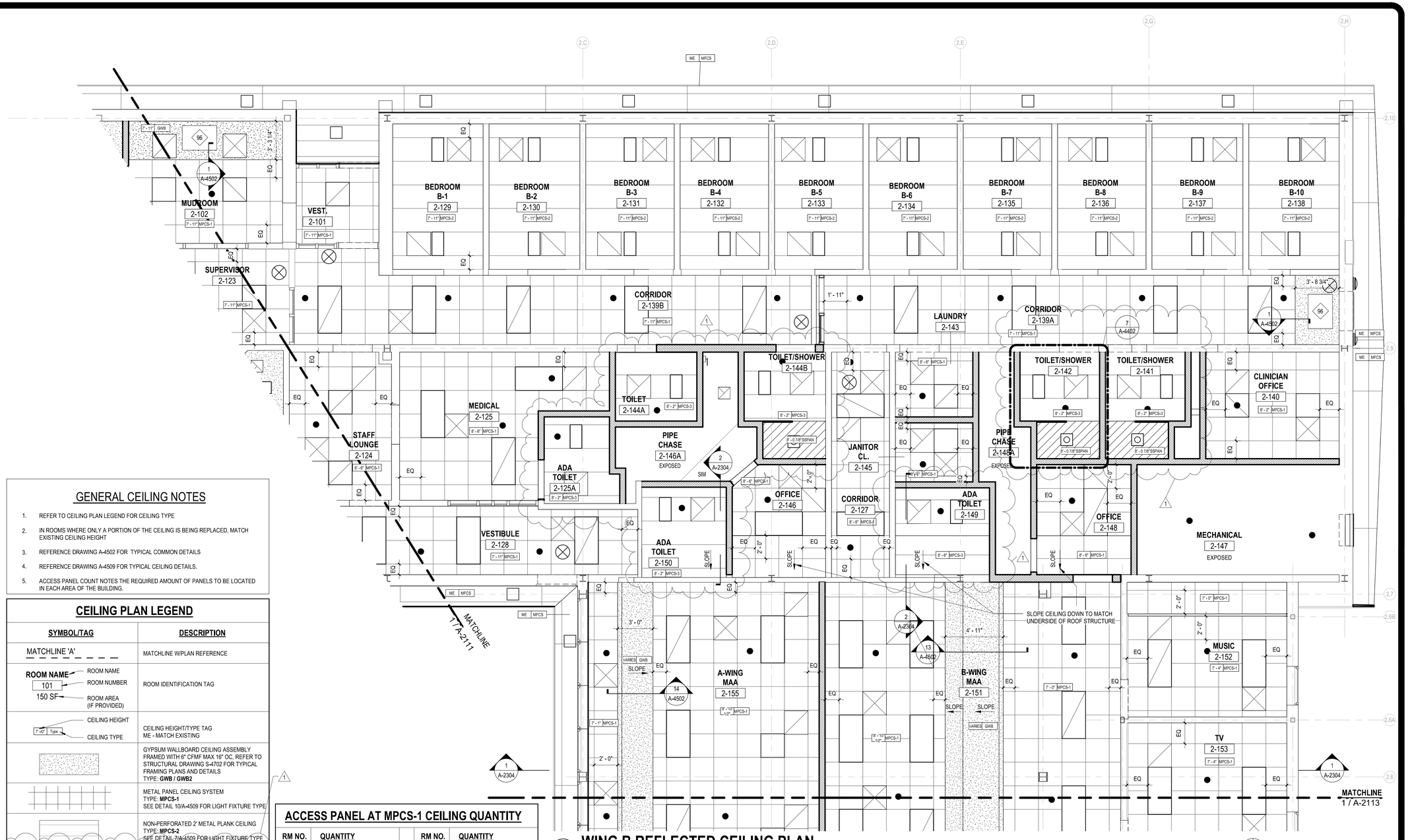


WING B REFLECTED CEILING PLAN

1/4" = 1'-0"

GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

CEILING PLAN LEGEND

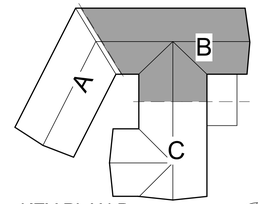
SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF	ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED)
7'-10" Type	CEILING HEIGHT, CEILING TYPE
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC, REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM TYPE: **MPCS-1** SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING TYPE: **MPCS-2** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE / Xx DIRECTIONAL / Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST / RETURN / SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL, SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
2-103	(1) PANEL	2-131	(1) PANEL
2-104	(1) PANEL	2-132	(1) PANEL
2-105	(1) PANEL	2-133	(1) PANEL
2-106	(1) PANEL	2-134	(1) PANEL
2-107	(1) PANEL	2-135	(1) PANEL
2-108	(1) PANEL	2-136	(1) PANEL
2-109	(1) PANEL	2-137	(1) PANEL
2-110	(1) PANEL	2-138	(1) PANEL
2-111	(1) PANEL	2-151	(7) PANEL
2-112	(1) PANEL	2-152	(1) PANEL
2-113	(1) PANEL	2-153	(1) PANEL
2-119	(3) PANEL	2-154	(1) PANEL
2-127	(3) PANEL	2-155	(7) PANEL
2-129	(1) PANEL	2-157	(2) PANEL
2-130	(1) PANEL	2-159	(2) PANEL
		2-160	(1) PANEL
TOTAL PANELS:	(49) ACCESS PANELS		

* PANELS ARE REELECTING THE QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.

CONSTRUCTION LEGEND ◇	
96	CABINET UNIT HEATER BY H-CONTRACT



KEY PLAN B
NOT TO SCALE

PLAN NORTH

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:09:49 PM
36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

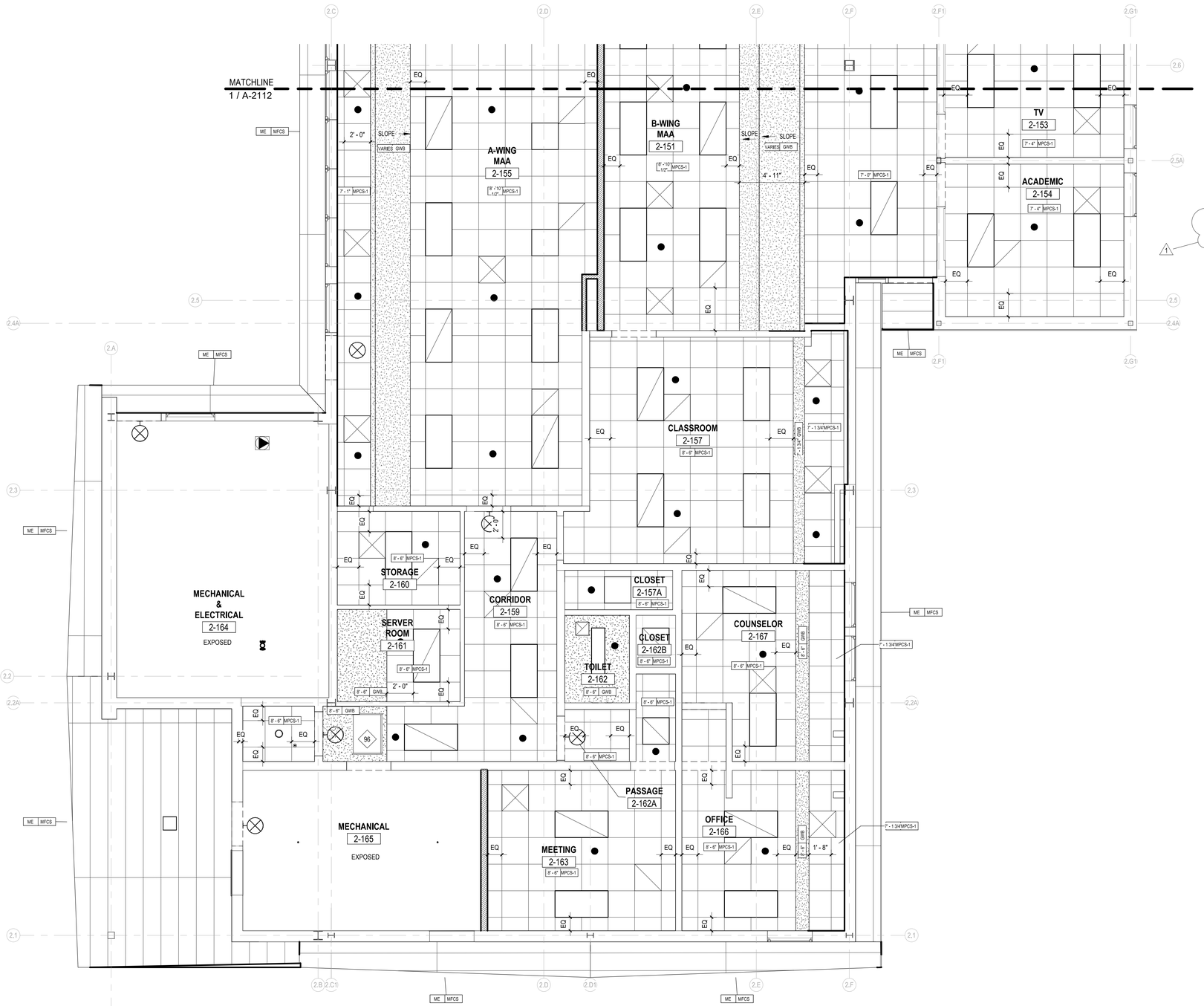
PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BLDG 73 WING B ENLARGED REFLECTED CEILING PLAN

DRAWING NUMBER:
A-2112

SHEET: OF

CONSTRUCTION LEGEND	#
96	CABINET UNIT HEATER BY H-CONTRACT



1 A-2113 **WING C REFLECTED CEILING PLAN**

1/4" = 1'-0"

PLAN NORTH

CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF — ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED)	ROOM IDENTIFICATION TAG
7'-0" TYP. — CEILING HEIGHT, CEILING TYPE	CEILING HEIGHT/TYPE TAG ME - MATCH EXISTING
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC, REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM TYPE: **MPCS-1** SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING TYPE: **MPCS-2** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE / Xx DIRECTIONAL / Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST / RETURN / SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL. SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

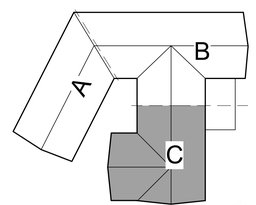
GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
2-103	(1) PANEL	2-131	(1) PANEL
2-104	(1) PANEL	2-132	(1) PANEL
2-105	(1) PANEL	2-133	(1) PANEL
2-106	(1) PANEL	2-134	(1) PANEL
2-107	(1) PANEL	2-135	(1) PANEL
2-108	(1) PANEL	2-136	(1) PANEL
2-109	(1) PANEL	2-137	(1) PANEL
2-110	(1) PANEL	2-138	(1) PANEL
2-111	(1) PANEL	2-151	(7) PANEL
2-112	(1) PANEL	2-152	(1) PANEL
2-113	(1) PANEL	2-153	(1) PANEL
2-119	(3) PANEL	2-154	(1) PANEL
2-127	(3) PANEL	2-155	(7) PANEL
2-129	(1) PANEL	2-157	(2) PANEL
2-130	(1) PANEL	2-159	(2) PANEL
		2-160	(1) PANEL
TOTAL PANELS:		(49) ACCESS PANELS	

* PANELS ARE REELECTING THE QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.



KEY PLAN C
NOT TO SCALE

PLAN NORTH

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
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REGISTERED ARCHITECT BRUCE T. BAILEY NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BLDG 73 WING C ENLARGED REFLECTED CEILING PLAN

DRAWING NUMBER:
A-2113

SHEET: OF

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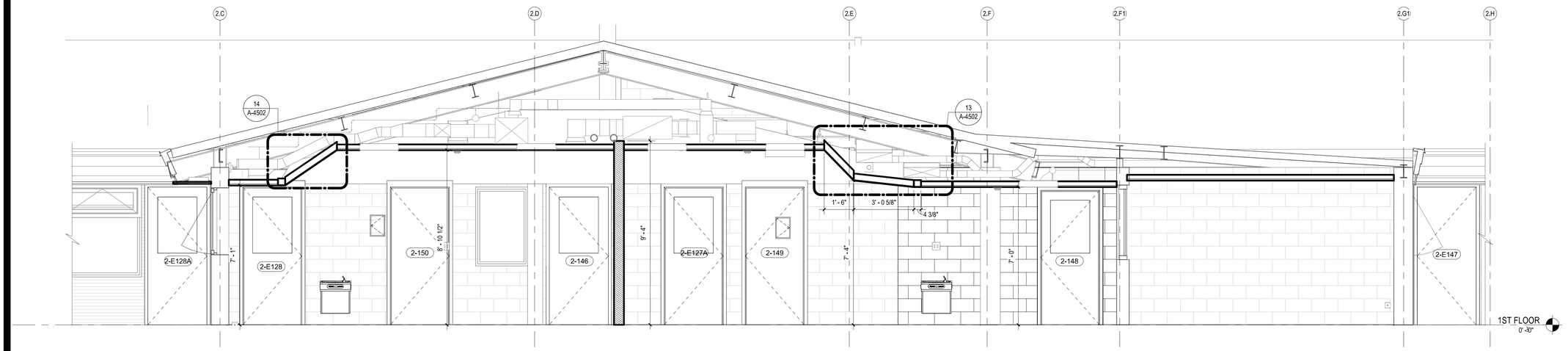
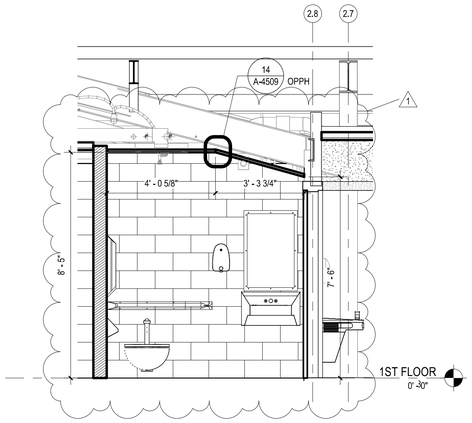
36x24 PLOT SHEET



1 A-2304

BLDG 73 WING C SECTION

3/8" = 1'-0"



2 A-2304

SECTION AT SLOPED CEILING

3/8" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES

Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:

CONSTRUCTION

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB. APO
FIELD CHECK:	
APPROVED:	MC

SHEET TITLE:

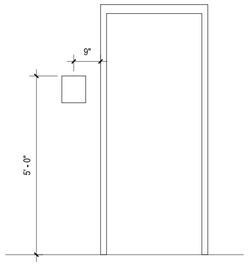
BUILDING 73 SECTIONS

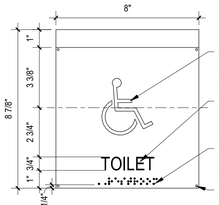
DRAWING NUMBER:

A-2304

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:09:56 PM
36x24 PLOT SHEET





ENGRAVED PLASTIC (ESP) 3" HIGH INTERNATIONAL HANDICAP SYMBOL, WHITE COLOR

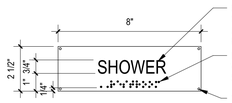
ENGRAVED PLASTIC (ESP) ROOM NAME: LETTERS IN WHITE COLOR, SEE FINISH SCHEDULE FOR TEXT

ROOM NAME: RAISED BRAILLE IN WHITE COLOR, SEE FINISH SCHEDULE FOR TEXT

MECHANICAL MOUNTING (MM) FULL THREADED SCREWS WITH TAMPER-RESISTANT HEADS.

SIGN 'A'

COPY STYLE 4: HELVETICA MEDIUM, UPPER CASE, 3/4" HEIGHT, WITH HANDICAPPED ACCESSIBILITY PICTOGRAM AND GRADE 2 BRAILLE BELOW COPY.



ENGRAVED PLASTIC (ESP)ROOM NAME: CENTER COPR (CC) LETTERS IN WHITE COLOR, SEE FINISH SCHEDULE FOR TEXT

ROOM NAME: RAISED BRAILLE IN WHITE COLOR, SEE FINISH SCHEDULE FOR TEXT

MECHANICAL MOUNTING (MM) FULL THREADED SCREWS WITH TAMPER-RESISTANT HEADS.

SIGN 'B'

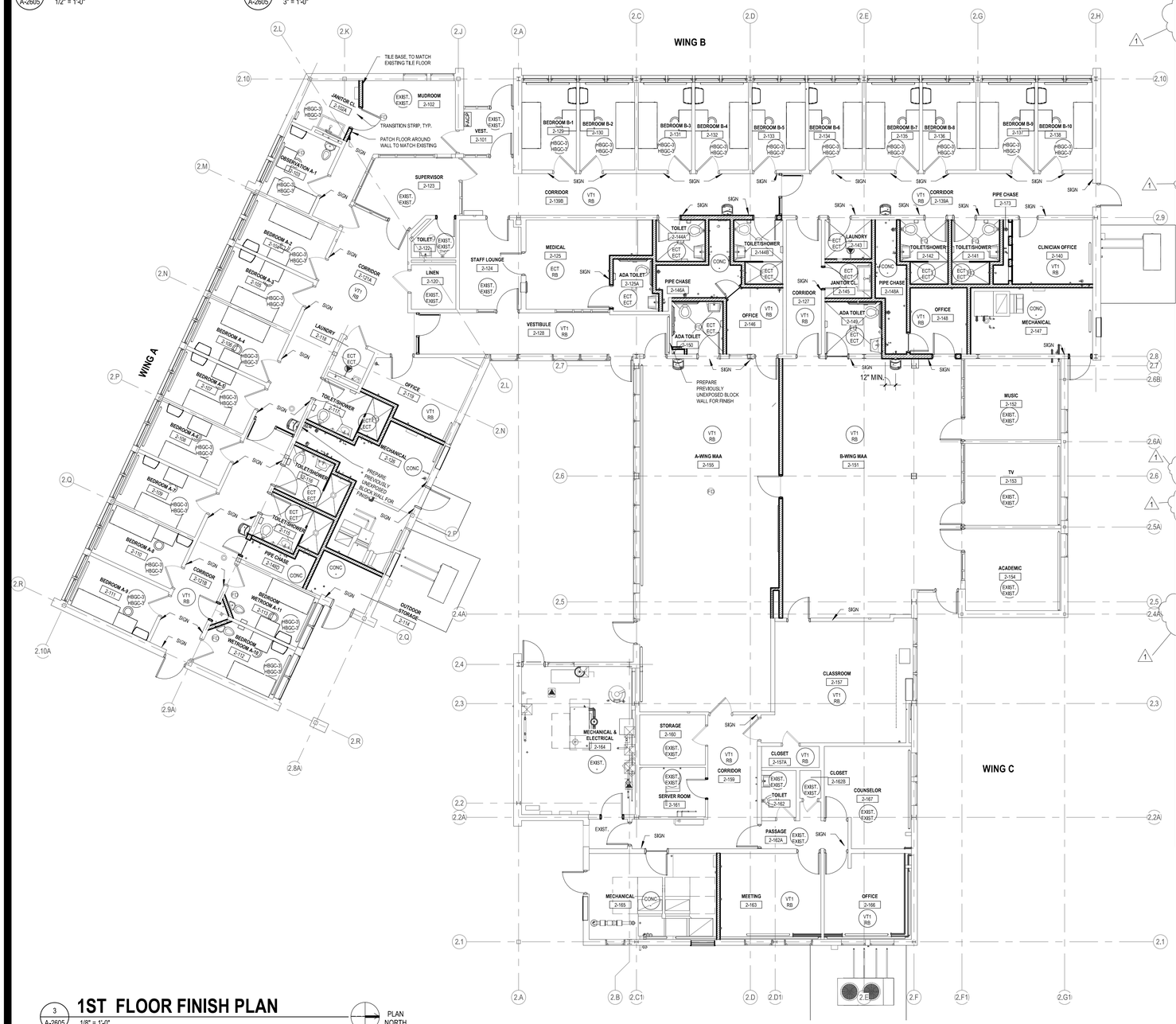
COPY STYLE 1: HELVETICA MEDIUM, UPPER CASE, 3/4" HEIGHT, WITH GRADE 2 BRAILLE BELOW COPY.

ABBREVIATIONS

CMU	CONCRETE MASONRY UNIT
CONC	EXPOSED CONCRETE
ECT	EPOXY RESIN FLOORING
GWB-1	GYPSUM WALL BOARD - MOLD AND MOISTURE RESISTANT, POLYCARBONATE-BACKED
HBGC-3	HIGH BUILD GLAZED COATING
IAL-2	SEE SPECIFICATION SECTION 099101 FOR DESCRIPTION
IAL-3	SEE SPECIFICATION SECTION 099101 FOR DESCRIPTION
MPCS-1	SUSPENDED METAL PANEL CEILING SYSTEM
MPCS-2	METAL PLANK CEILING SYSTEM
MPCS-3	SS METAL PLANK CEILING SYSTEM
RB	RESILIENT BASE
VT1	VINYL TILE 1
TB	TILE BASE
EXIST	EXISTING TO REMAIN

1 SIGNAGE LOCATION
1/A-2605 — 1/2" = 1'-0"

2 SIGN DETAIL
2/A-2605 — 3" = 1'-0"



1 1ST FLOOR FINISH PLAN
3/A-2605 — 1/8" = 1'-0"

PLAN NORTH

BUILDING 73 - ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING TYPE	ROOM SIGN TYPE	SIGN MESSAGE	REMARKS
2-101	VEST.	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-102	MUDROOM	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-	-	CERAMIC MOSAIC TILE BASE TO MATCH EXISTING
2-102A	JANITOR CL.	HBGC-3	HBGC-3	IAL-2	IAL-2	GWB-1	B	JANITOR CLOSET	
2-103	OBSERVATION A-1	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	OBSERVATION A-1	
2-104	BEDROOM A-2	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-2	
2-105	BEDROOM A-3	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-3	
2-106	BEDROOM A-4	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-4	
2-107	BEDROOM A-5	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-5	
2-108	BEDROOM A-6	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-6	
2-109	BEDROOM A-7	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-7	
2-110	BEDROOM A-8	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	A	BEDROOM A-8	
2-111	BEDROOM A-9	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	A	BEDROOM A-9	
2-112	BEDROOM WETROOM A-10	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	A	BEDROOM WETROOM A-10	
2-113	BEDROOM WETROOM A-11	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM WETROOM A-11	
2-114	OUTDOOR STORAGE	CONC	-	IAL-2	PREFINISHED	MPCS-1	B	EXIT	
2-115	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
2-116	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
2-117	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
2-118	LAUNDRY	ECT	ECT	IAL-2	PREFINISHED	MPCS-1	-		
2-119	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		EAST, WEST & NORTH WALLS: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
2-120	LINEN	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-121A	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		
2-121B	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	EXIT	
2-122	TOILET	EXIST.	EXIST.	IAL-3	IAL-3	GWB-1	-		
2-123	SUPERVISOR	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-124	STAFF LOUNGE	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		EAST WALL: PATCH PRIME & PAINT EXISTING GYPSUM BOARD AT DOOR AND MED PASS THRU. DO NOT PAINT EXISTING BRICK PILASTER
2-125	MEDICAL	ECT	RB	IAL-2	PREFINISHED	MPCS-1	-		
2-125A	ADA TOILET	ECT	ECT	IAL-2	PREFINISHED	MPCS-3	A	TOILET	
2-126	MECHANICAL	CONC	-	IAL-2	NONE	-	-	EXIT	
2-127	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		
2-128	VESTIBULE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		
2-129	BEDROOM B-1	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-1	SS PANEL AT UNDERSIDE OF WINDOW
2-130	BEDROOM B-2	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-2	SS PANEL AT UNDERSIDE OF WINDOW
2-131	BEDROOM B-3	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-3	SS PANEL AT UNDERSIDE OF WINDOW
2-132	BEDROOM B-4	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-4	SS PANEL AT UNDERSIDE OF WINDOW
2-133	BEDROOM B-5	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-5	SS PANEL AT UNDERSIDE OF WINDOW
2-134	BEDROOM B-6	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-6	SS PANEL AT UNDERSIDE OF WINDOW
2-135	BEDROOM B-7	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-7	SS PANEL AT UNDERSIDE OF WINDOW
2-136	BEDROOM B-8	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-8	SS PANEL AT UNDERSIDE OF WINDOW
2-137	BEDROOM B-9	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-9	SS PANEL AT UNDERSIDE OF WINDOW
2-138	BEDROOM B-10	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-10	SS PANEL AT UNDERSIDE OF WINDOW
2-139A	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	EXIT	
2-139B	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		
2-140	CLINICIAN OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		EAST WALL: PREP EXISTING FULL-HEIGHT GLAZED CMU WALL FINISH FOR PAINT.
2-141	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
2-142	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
2-143	LAUNDRY	ECT	ECT	IAL-2	PREFINISHED	MPCS-1	B	LAUNDRY	
2-144A	TOILET	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET	
2-144B	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
2-145	JANITOR CL.	ECT	ECT	IAL-2	PREFINISHED	MPCS-1	B	JANITOR CLOSET	
2-146	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	OFFICE	
2-146A	PIPE CHASE	CONC	-	-	NONE	-	-	-	
2-147	MECHANICAL	CONC	-	IAL-2	NONE	-	B	EXIT	EAST WALL: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
2-148	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	OFFICE	
2-148A	PIPE CHASE	CONC	-	-	NONE	-	-	-	
2-148D	PIPE CHASE	CONC			NONE		-		
2-149	ADA TOILET	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	A	TOILET	
2-150	ADA TOILET	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	A	TOILET	
2-151	B-WING MAA	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		
2-152	MUSIC	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-153	TV	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-154	ACADEMIC	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-155	A-WING MAA	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		
2-157	CLASSROOM	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B (2 SIGNS)	CLASSROOM	PRIME & PAINT BOTH GYPSUM BOARD AND EXISTING CMU SURFACES
2-157A	CLOSET	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		
2-159	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		
2-160	STORAGE	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-161	SERVER ROOM	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-162	TOILET	EXIST.	EXIST.	IAL-2	IAL-3	GWB-1	B	TOILET	
2-162A	PASSAGE	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-162B	CLOSET	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-163	MEETING	VT1	RB	IAL-2	PREFINISHED	MPCS-1	-		
2-164	MECHANICAL & ELECTRICAL	EXIST.	-	IAL-2	NONE	-	-		
2-165	MECHANICAL	CONC	-	IAL-2	NONE	-	B	MECHANICAL	
2-166	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	OFFICE	
2-167	COUNSELOR	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1	-		
2-173	PIPE CHASE	CONC			NONE		-		

NOTES:
1. REFER TO DOOR SCHEDULE FOR DOOR & FRAME PAINTING
2. PAINT ALL WINDOW FRAMES IN ROOMS SCHEDULED TO BE PAINTED
3. PAINT ALL GYPSUM BOARD SOFFITS IN ROOMS SCHEDULED TO BE PAINTED
4. PAINT FULL ROOM UNLESS PAINT LIMITS ARE INDICATED ON DRAWINGS
5. PIPE CHASE SPACES TO RECEIVE CONC FLOOR W/ HARDENER. NO CEILINGS & NO PAINT
6. EXPOSED CONCRETE SURFACES SHALL RECEIVE HARDENER
7. SIGNAGE TO BE PLACED IN THE LOCATIONS INDICATED ON THE FINISHES PLANS (OUTSIDE OF THEIR RESPECTIVE ROOMS)
8. REFER TO REFLECTED CEILING PLANS FOR CEILING FINISH
9. EPOXY RESIN WALL BASE TO BE 8" HIGH
10. REFER TO SPECIFICATION SECTION 101423 SIGNS FOR INFORMATION ABOUT SIGN MOUNTING LOCATIONS, COPY POSITION, COPY STYLE, MOUNTING MATERIALS,GRAPHIC PROCESS, AND SIGN TYPE.
11. REFER TO 12/4502 FOR DRAIN DETAIL
12. PAINT SHOWER CEILINGS BEFORE INSTALLING STAINLESS STEEL PANEL SYSTEM.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

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REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

1	07/11/2025	ADDENDUM #2
MARK	DATE	DESCRIPTION

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, APO
FIELD CHECK:	
APPROVED:	MC

SHEET TITLE:
BUILDING 73 ROOM FINISH SCHEDULE

DRAWING NUMBER:
A-2605

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:10:06 PM
36x24 PLOT SHEET

PLUMBING FIXTURES BY P-CONTRACT

TAG	DESCRIPTION
WC-1	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-2	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-3	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING IN EXISTING 6" CMU WALL AS NOTED ON DRAWING A-4510
WC-4	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-1	SHOWER BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-2	SHOWER BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
LAV-1	LAVATORY BY P CONTRACT.
LAV-2	LAVATORY BY P CONTRACT.

* **NOTE:** REFER TO DRAWING A-4510 FOR BLOCKOUT DETAILS

FLOOR PLAN LEGEND

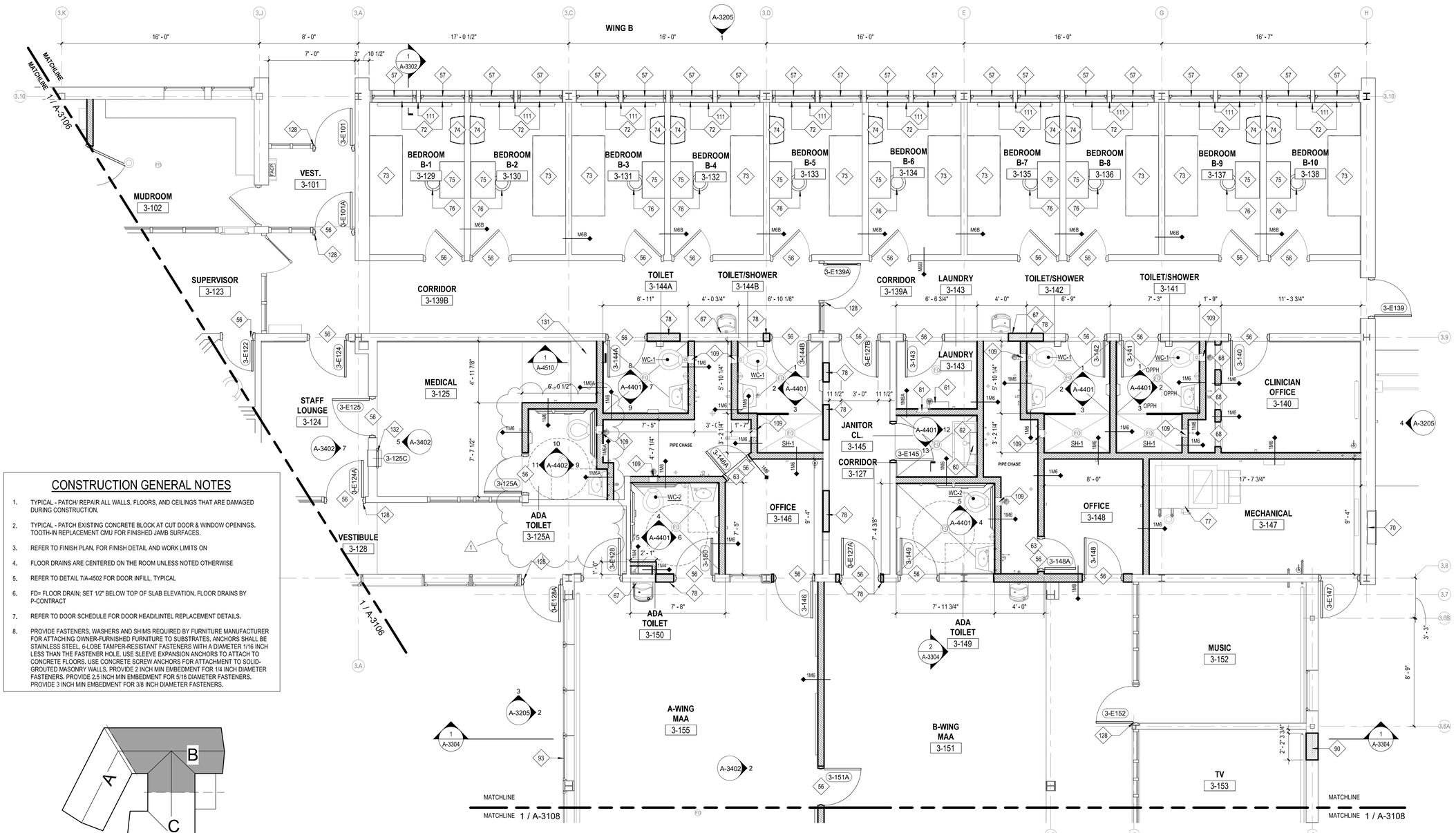
SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF (ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED))	ROOM IDENTIFICATION TAG
	EXISTING DOOR AND FRAME
	EXISTING PARTITION/WALL
DM1	DOOR AND FRAME, DOOR TAG
Ø/A1 PARTITION TYPE DESIGNATION	PARTITION & TYPE IDENTIFICATION
100.00'	SPOT ELEVATION
W1	WINDOW IDENTIFICATION TAG
FEC1	FIRE EXTINGUISHER IN WALL MOUNTED CABINET
FE1	FIRE EXTINGUISHER HUNG WITH WALL BRACKET

CONSTRUCTION LEGEND

#	
56	PROVIDE LINTEL. REFER TO OVER DOOR PANEL REPLACEMENT DETAIL 5/A-4512 WHERE KEYNOTE 103 APPLIED IN THE REMOVALS.
57	PROVIDE WINDOW SYSTEM- COORDINATE SIZE OF OPENING WITH WINDOW SCHEDULE AND DETAILS.
60	MOP & BROOM HOLDER (M&BH)
61	LAUNDRY DETERGENT DISPENSER (LDD-SM)
62	JANITOR SINK, BY P-CONTRACT
63	RESILIENT THRESHOLD
67	PROVIDE WALL PATCHING BEHIND DRINKING FOUNTAIN BY P-CONTRACT (TYP.)
68	ACCESS DOOR 24"X24" REFERENCE DETAIL 5/A-4502
70	FIXED STEEL LOUVER. COORDINATE SIZE OF OPENING WITH LOUVER SCHEDULE AND DETAILS DRAWING.
72	PROVIDE 1/2" TYPE S-1 SECURITY GLAZING PANEL ON INSIDE FACE OF WINDOW FRAME, ATTACHED WITH TAMPERPROOF FASTENERS. REFER TO WINDOW DETAIL DRAWING.
73	INSTALL ATN130 SPACE-SAVER BED WITH STORAGE - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.
74	INSTALL ATN301 BOOK SHELF - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.

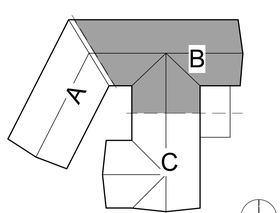
CONSTRUCTION LEGEND

#	
75	INSTALL ATN601 FLOOR-MOUNT DESK - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.
76	INSTALL ATN500 STOOL - OWNER FURNISHED, PROVIDE SECURITY FASTENERS. SEE GENERAL NOTES.
77	AIR HANDLING UNIT BY H-CONTRACT
78	INFILL AND PATCH AND PAINT WALLS, FLOORS AND CEILINGS TO MATCH ADJACENT SURFACES.
81	WASHING MACHINE BOX BY P-CONTRACT.
90	PATCH AND REPAIR SIDING SYSTEM, REFERENCE DETAIL 6/A-4502
93	PROVIDE TYPE S-10 WINDOW GLAZING- COORDINATE SIZE OF OPENING WITH WINDOW SCHEDULE AND DETAILS
109	CUT WATERCLOSET BLOCKOUT FROM WALL. REFER TO BLOCKOUT DETAILS ON DRAWING A-4510.
111	SECURITY BARRIER BETWEEN UNDERSIDE OF WINDOW AND EXISTING HEATER. REFERENCE WALL SECTION 1/A-3302.
128	PATCH AND PAINT EXISTING DOOR FRAME IN ITS ENTIRETY. REFER TO THE DOOR SCHEDULE FOR INFORMATION.
131	PROVIDE WALL-MOUNTED COUNTER.
132	PROVIDE MED PASS THRU OPENING WITH SS COUNTER AND SHUTTER HOOD ABOVE OPENING. REFER TO INTERIOR ELEVATION TO COORDINATE SIZE OF OPENING AND DETAILS.



CONSTRUCTION GENERAL NOTES

1. TYPICAL - PATCH/ REPAIR ALL WALLS, FLOORS, AND CEILINGS THAT ARE DAMAGED DURING CONSTRUCTION.
2. TYPICAL - PATCH EXISTING CONCRETE BLOCK AT CUT DOOR & WINDOW OPENINGS. TOOTH-IN REPLACEMENT CMU FOR FINISHED JAMB SURFACES.
3. REFER TO FINISH PLAN, FOR FINISH DETAIL AND WORK LIMITS ON
4. FLOOR DRAINS ARE CENTERED ON THE ROOM UNLESS NOTED OTHERWISE
5. REFER TO DETAIL 7/A-4502 FOR DOOR INFILL, TYPICAL
6. FD= FLOOR DRAIN; SET 1/2" BELOW TOP OF SLAB ELEVATION. FLOOR DRAINS BY P-CONTRACT
7. REFER TO DOOR SCHEDULE FOR DOOR HEAD/LINTEL REPLACEMENT DETAILS.
8. PROVIDE FASTENERS, WASHERS AND SHIMS REQUIRED BY FURNITURE MANUFACTURER FOR ATTACHING OWNER-FURNISHED FURNITURE TO SUBSTRATES. ANCHORS SHALL BE STAINLESS STEEL, 6-LOBE TAMPER-RESISTANT FASTENERS WITH A DIAMETER 1/16 INCH LESS THAN THE FASTENER HOLE. USE SLEEVE EXPANSION ANCHORS TO ATTACH TO CONCRETE FLOORS. USE CONCRETE SCREW ANCHORS FOR ATTACHMENT TO SOLID-GROUTED MASONRY WALLS. PROVIDE 2 INCH MIN EMBEDMENT FOR 1/4 INCH DIAMETER FASTENERS. PROVIDE 2.5 INCH MIN EMBEDMENT FOR 5/16 DIAMETER FASTENERS. PROVIDE 3 INCH MIN EMBEDMENT FOR 3/8 INCH DIAMETER FASTENERS.



KEY PLAN B
NOT TO SCALE

PLAN NORTH

1 / A-3107 **WING B FLOOR PLAN**
1/4" = 1'-0"

PLAN NORTH

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

1	07/11/2025	ADDENDUM #2
MARK	DATE	DESCRIPTION

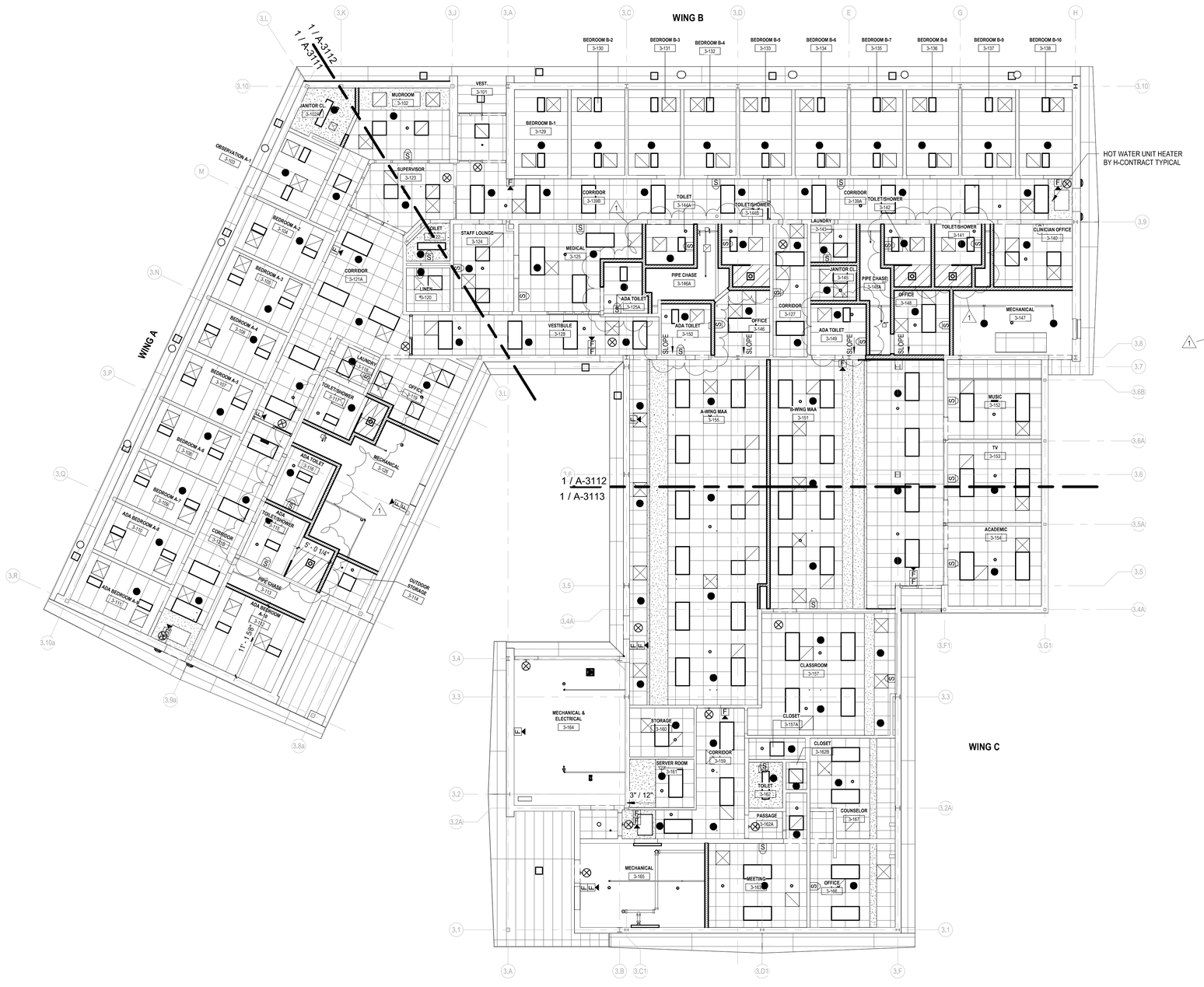
PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	APO, JB, LM
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 74 WING B ENLARGED PLAN

DRAWING NUMBER:
A-3107

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.nvt
7/10/2025 5:10:16 PM
36x24 PLOT SHEET



GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

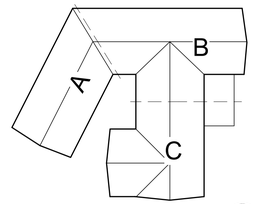
CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF (ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED))	ROOM IDENTIFICATION TAG
7'-0" Type (CEILING HEIGHT, CEILING TYPE)	CEILING HEIGHT/TYPE TAG ME - MATCH EXISTING
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC, REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM TYPE: **MPCS-1** SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING TYPE: **MPCS-2** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE; Xx DIRECTIONAL; Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST; RETURN; SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL, SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
3-103	(1) PANEL	3-131	(1) PANEL
3-104	(1) PANEL	3-132	(1) PANEL
3-105	(1) PANEL	3-133	(1) PANEL
3-106	(1) PANEL	3-134	(1) PANEL
3-107	(1) PANEL	3-135	(1) PANEL
3-108	(1) PANEL	3-136	(1) PANEL
3-109	(1) PANEL	3-137	(1) PANEL
3-110	(1) PANEL	3-138	(1) PANEL
3-111	(1) PANEL	3-151	(7) PANEL
3-112	(1) PANEL	3-152	(1) PANEL
3-113	(1) PANEL	3-153	(1) PANEL
3-119	(3) PANEL	3-154	(1) PANEL
3-127	(3) PANEL	3-155	(7) PANEL
3-129	(1) PANEL	3-157	(2) PANEL
3-130	(1) PANEL	3-159	(2) PANEL
		3-160	(1) PANEL
TOTAL PANELS:	(49) ACCESS PANELS		

* PANELS ARE REFLECTING QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.



KEY PLAN
NOT TO SCALE

1 / A-3110 — **1ST FLOOR CEILING PLAN**
1/8" = 1'-0"

PLAN NORTH

PLAN NORTH

NEW YORK STATE OF OPPORTUNITY. | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
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REGISTERED ARCHITECT — BRUCE T. BAILEY — NO. 26905 — STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2028

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	APO, JB, LM
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 74 FIRST FLOOR REFLECTED CEILING PLAN

DRAWING NUMBER:
A-3110

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
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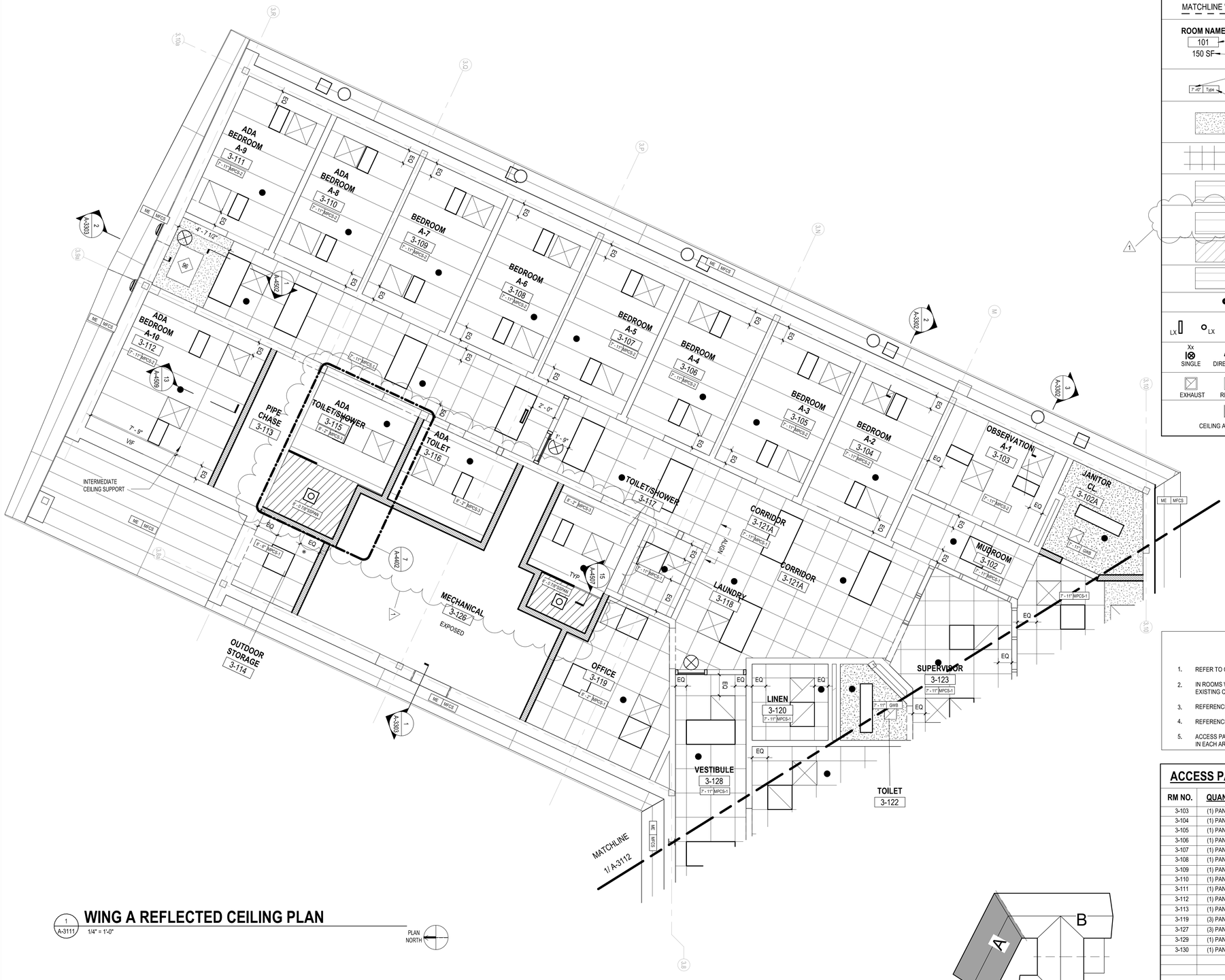
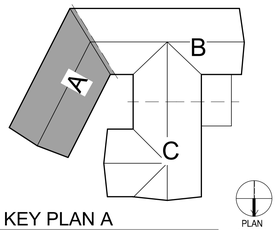
CONSTRUCTION LEGEND ◇	
96	CABINET UNIT HEATER BY H-CONTRACT



1 A-3111 **WING A REFLECTED CEILING PLAN**

1/4" = 1'-0"

PLAN NORTH



KEY PLAN A

NOT TO SCALE

PLAN NORTH

CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF — ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED)	ROOM IDENTIFICATION TAG
7'-x" Type — CEILING HEIGHT, CEILING TYPE	CEILING HEIGHT/TYPE TAG ME - MATCH EXISTING
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC, REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM TYPE: **MPCS-1** SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING TYPE: **MPCS-2** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE; Xx DIRECTIONAL; Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST; RETURN; SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL. SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
3-103	(1) PANEL	3-131	(1) PANEL
3-104	(1) PANEL	3-132	(1) PANEL
3-105	(1) PANEL	3-133	(1) PANEL
3-106	(1) PANEL	3-134	(1) PANEL
3-107	(1) PANEL	3-135	(1) PANEL
3-108	(1) PANEL	3-136	(1) PANEL
3-109	(1) PANEL	3-137	(1) PANEL
3-110	(1) PANEL	3-138	(1) PANEL
3-111	(1) PANEL	3-151	(7) PANEL
3-112	(1) PANEL	3-152	(1) PANEL
3-113	(1) PANEL	3-153	(1) PANEL
3-119	(3) PANEL	3-154	(1) PANEL
3-127	(3) PANEL	3-155	(7) PANEL
3-129	(1) PANEL	3-157	(2) PANEL
3-130	(1) PANEL	3-159	(2) PANEL
		3-160	(1) PANEL
TOTAL PANELS:	(49) ACCESS PANELS		

* PANELS ARE REELECTING QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES

Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT BRUCE T. BIKULIS NO. 26980 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2028

CONTRACT: CONSTRUCTION

TITLE: PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION: INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER: 45682-C

DESIGNED BY: BB

DRAWN BY: JB, AF

FIELD CHECK:

APPROVED:

SHEET TITLE: BLDG 74 WING A ENLARGED REFLECTED CEILING PLAN

DRAWING NUMBER: A-3111

SHEET: OF

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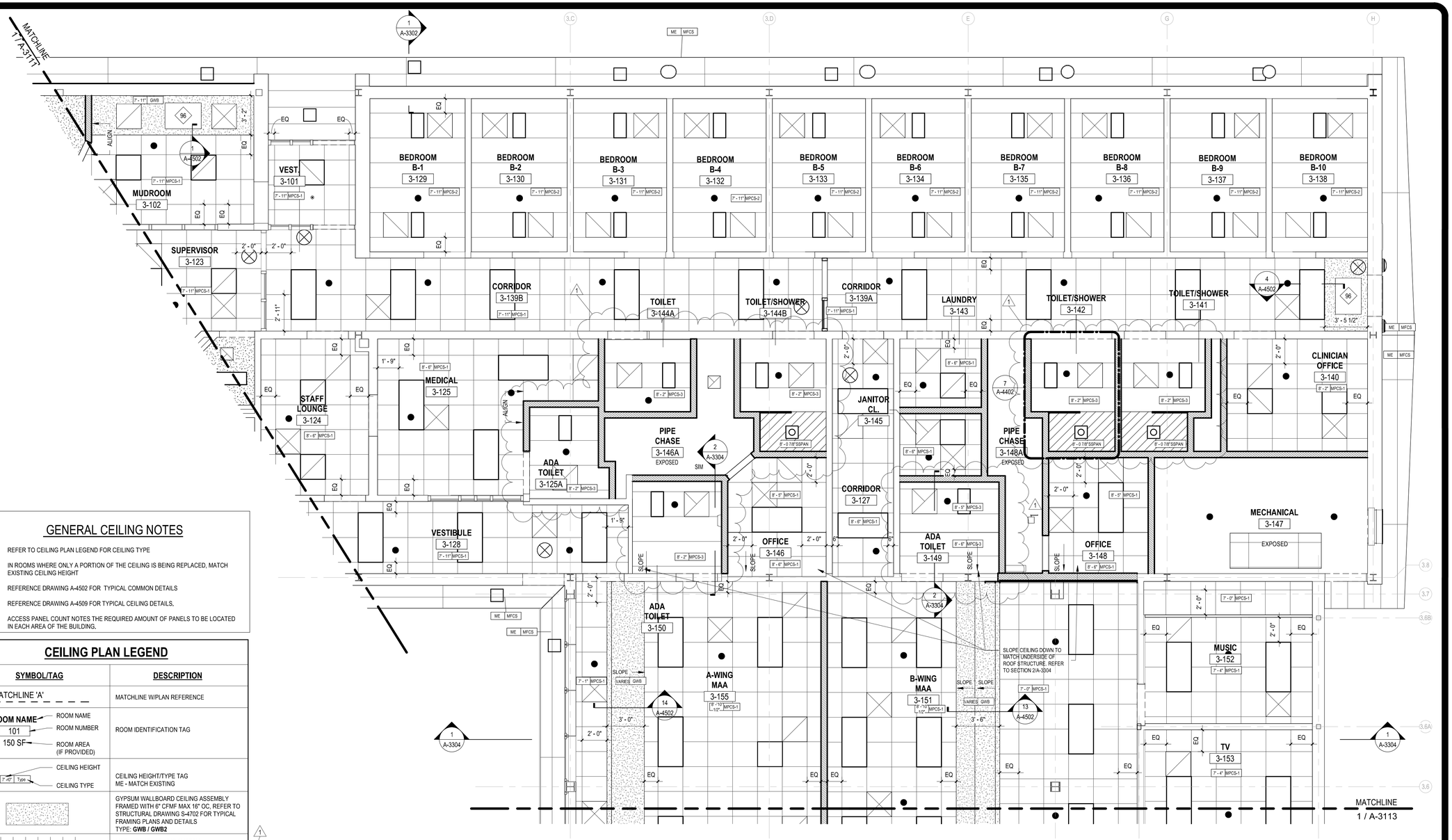

GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF (ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED))	ROOM IDENTIFICATION TAG
7'-0" Type (CEILING HEIGHT, CEILING TYPE)	CEILING HEIGHT/TYPE TAG ME - MATCH EXISTING
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC, REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM TYPE: **MPCS-1** SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING TYPE: **MPCS-2** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE, Xx DIRECTIONAL, Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST, RETURN, SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL, SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED. (COORDINATE EXACT LOCATION)

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
3-103	(1) PANEL	3-131	(1) PANEL
3-104	(1) PANEL	3-132	(1) PANEL
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3-108	(1) PANEL	3-136	(1) PANEL
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3-130	(1) PANEL	3-159	(2) PANEL
		3-160	(1) PANEL
TOTAL PANELS:	(49) ACCESS PANELS		

* PANELS ARE REELECTING QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.

CONSTRUCTION LEGEND ⟨#⟩	
96	CABINET UNIT HEATER BY H-CONTRACT

BLDG 74 WING B REFELECTED CEILING PLAN

1/4" = 1'-0"

PLAN NORTH

KEY PLAN A
NOT TO SCALE

PLAN NORTH

NEW YORK STATE OF OPPORTUNITY. Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342
CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental
CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BLDG 74 WING B ENLARGED REFLECTED CEILING PLAN

DRAWING NUMBER:
A-3112

SHEET: OF

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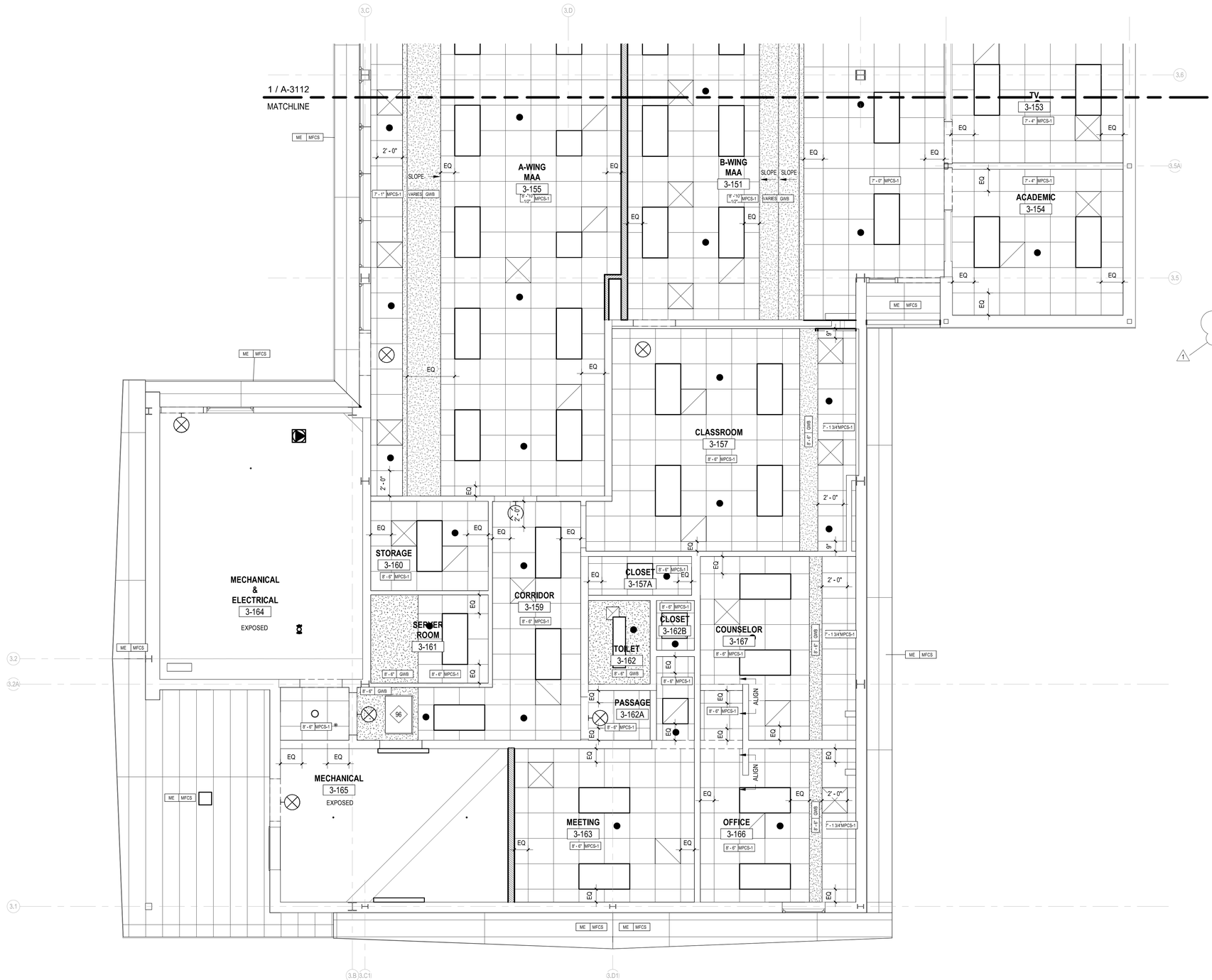
CONSTRUCTION LEGEND	
96	CABINET UNIT HEATER BY H-CONTRACT



GENERAL CEILING NOTES

1. REFER TO CEILING PLAN LEGEND FOR CEILING TYPE
2. IN ROOMS WHERE ONLY A PORTION OF THE CEILING IS BEING REPLACED, MATCH EXISTING CEILING HEIGHT
3. REFERENCE DRAWING A-4502 FOR TYPICAL COMMON DETAILS
4. REFERENCE DRAWING A-4509 FOR TYPICAL CEILING DETAILS.
5. ACCESS PANEL COUNT NOTES THE REQUIRED AMOUNT OF PANELS TO BE LOCATED IN EACH AREA OF THE BUILDING.

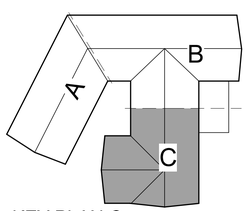
CEILING PLAN LEGEND

SYMBOL/TAG	DESCRIPTION
MATCHLINE 'A'	MATCHLINE W/PLAN REFERENCE
ROOM NAME / 101 / 150 SF	ROOM NAME, ROOM NUMBER, ROOM AREA (IF PROVIDED)
7'-0" Type	CEILING HEIGHT, CEILING TYPE — CEILING HEIGHT/TYPE TAG ME - MATCH EXISTING
	GYPSUM WALLBOARD CEILING ASSEMBLY FRAMED WITH 6" CFMF MAX 16" OC, REFER TO STRUCTURAL DRAWING S-4702 FOR TYPICAL FRAMING PLANS AND DETAILS TYPE: **GWB / GWB2**
	METAL PANEL CEILING SYSTEM TYPE: **MPCS-1** SEE DETAIL 10/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' METAL PLANK CEILING TYPE: **MPCS-2** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	NON-PERFORATED 2' SECURE SS METAL PLANK CEILING TYPE: **MPCS-3** SEE DETAIL 7/A-4509 FOR LIGHT FIXTURE TYPE
	STAINLESS STEEL PANEL TYPE: **SSPAN**
	MINERAL FIBER CEMENT 2' SOFFIT TYPE: **MFCS**
	SPRINKLER HEAD LOCATION PROVIDED BY P-CONTRACT
LX LX LX LX	VARIOUS LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
Xx SINGLE / Xx DIRECTIONAL / Xx DOUBLE	EXIT SIGN LIGHT FIXTURES AND CALLOUTS - PROVIDED BY E-CONTRACT
EXHAUST / RETURN / SUPPLY	MECHANICAL AIR DIFFUSERS/GRILLES PROVIDED BY H-CONTRACT
CEILING ACCESS PANEL	CEILING ACCESS PANEL, SEE DETAIL 8/A-4509 ACCESS PANEL LOCATED IN GWB CEILING TYPE MUST 1HR FIRE RATED, (COORDINATE EXACT LOCATION)

ACCESS PANEL AT MPCS-1 CEILING QUANTITY

RM NO.	QUANTITY	RM NO.	QUANTITY
3-103	(1) PANEL	3-131	(1) PANEL
3-104	(1) PANEL	3-132	(1) PANEL
3-105	(1) PANEL	3-133	(1) PANEL
3-106	(1) PANEL	3-134	(1) PANEL
3-107	(1) PANEL	3-135	(1) PANEL
3-108	(1) PANEL	3-136	(1) PANEL
3-109	(1) PANEL	3-137	(1) PANEL
3-110	(1) PANEL	3-138	(1) PANEL
3-111	(1) PANEL	3-151	(7) PANEL
3-112	(1) PANEL	3-152	(1) PANEL
3-113	(1) PANEL	3-153	(1) PANEL
3-119	(3) PANEL	3-154	(1) PANEL
3-127	(3) PANEL	3-155	(7) PANEL
3-129	(1) PANEL	3-157	(2) PANEL
3-130	(1) PANEL	3-159	(2) PANEL
		3-160	(1) PANEL
TOTAL PANELS:	(49) ACCESS PANELS		

* PANELS ARE REELECTING QUANTITY OF PANELS REQUIRED IN EACH SPACE, NOT IN ANY SPECIFIC LOCATION. TO BE COORDINATED ON SITE.
* REFER TO DETAIL 3/4502 & 8/A-4509 FOR ACCESS PANEL DETAIL.



KEY PLAN C
NOT TO SCALE

1 / A-3113 **BLDG 74 WING C REFELECTED CEILING PLAN**
1/4" = 1'-0"

PLAN NORTH

PLAN NORTH

NEW YORK STATE OF OPPORTUNITY. | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
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REGISTERED ARCHITECT BRUCE T. BIXLEY NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BLDG 74 WING C ENLARGED REFLECTED CEILING PLAN

DRAWING NUMBER:
A-3113

SHEET: OF

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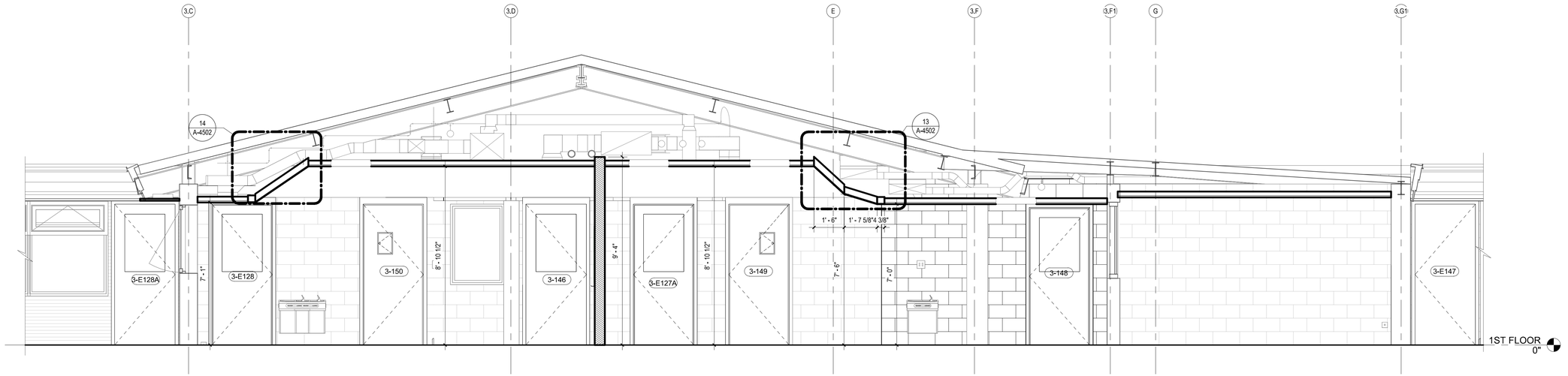
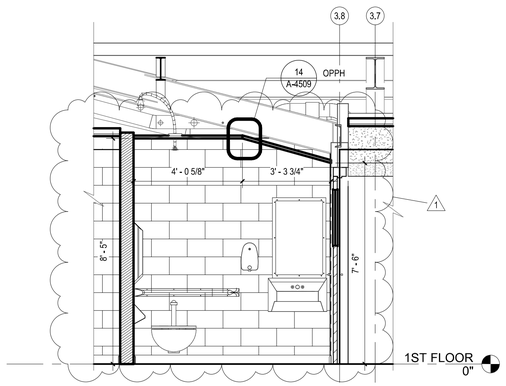
36of A PLOT SHEET



1 A-3304 **SECTION THROUGH ACTIVITY ROOM & CLASSROOM**

3/8" = 1'-0"



2 A-3304 **SECTION AT SLOPED CEILINGS**

3/8" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

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FoitAlbert ASSOCIATES

Architecture. Engineering. Surveying. Environmental

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REGISTRATION EXPIRES: 04/30/2026

CONTRACT:

CONSTRUCTION

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	APO, JB
FIELD CHECK:	MC
APPROVED:	MC

SHEET TITLE:

BUILDING 74 SECTIONS

DRAWING NUMBER:

A-3304

SHEET: OF

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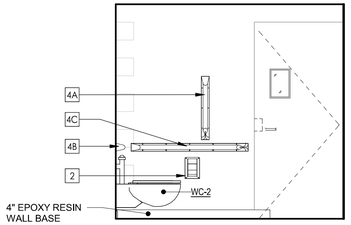
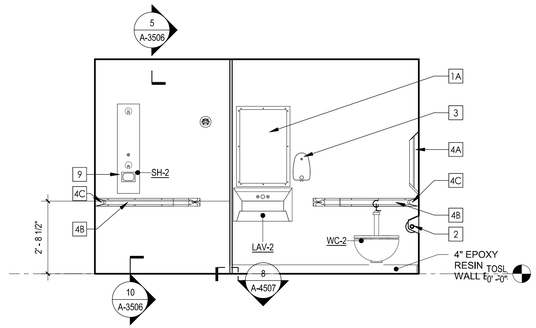


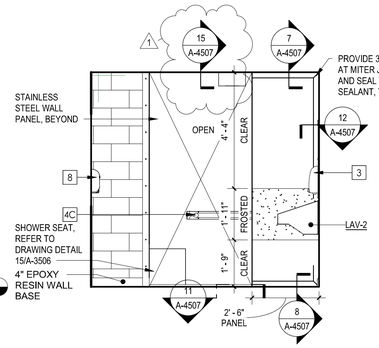
1 A-3401 INTERIOR ELEV - ACCESSIBLE TOILET

3/8" = 1'-0"



2 A-3401 INTERIOR ELEV - ACCESSIBLE BATHROOM

3/8" = 1'-0"



3 A-3401 INTERIOR ELEV - ACCESSIBLE TOILET

3/8" = 1'-0"

PLUMBING FIXTURES BY P-CONTRACT

TAG	DESCRIPTION
WC-1	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-2	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-3	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING IN EXISTING 6" CMU WALL AS NOTED ON DRAWING A-4510
WC-4	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-1	SHOWER BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-2	SHOWER BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
LAV-1	LAVATORY BY P CONTRACT.
LAV-2	LAVATORY BY P CONTRACT.

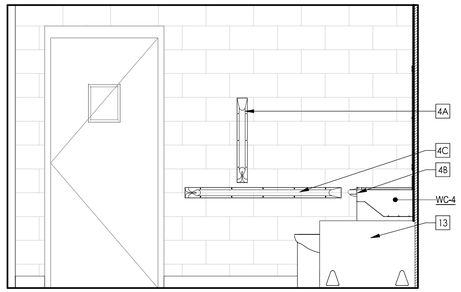
* **NOTE:** REFER TO DRAWING A-4510 FOR BLOCKOUT DETAILS

RESTROOM NOTES

1. DIMENSIONS AND CLEARANCES PROVIDED IN THE DRAWINGS FOR RESTROOMS (PLANS AND ELEVATIONS) ARE IN COMPLIANCE WITH INTERNATIONAL BUILDING CODE 2015 AND THE ICC/ANSI A117.1 STANDARDS (UON)
2. TOILET PARTITIONS ARE HEAD SUPPORTED AT THE CEILING. WOOD BLOCKING SHALL BE PROVIDED TO SUPPORT THE TOP OF THE PARTITION STILES ABOVE THE GYPSUM WALLBOARD. REF. DETAIL
3. GRAB BARS AND OTHER WALL MOUNTED ACCESSORIES ARE ILLUSTRATED IN ELEVATION AND PLANS, SHOWING TYPICAL MOUNTING HEIGHT, LOCATIONS AND CLEARANCES REQUIRED. WOOD BLOCKING SHALL BE PROVIDED FOR ALL WALL MOUNTED ACCESSORIES IN METAL STUD WALLS, INCLUDING GRAB BARS. COORDINATE WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. EPOXY ANCHORS SHALL BE USED IN MASONRY WALLS.
4. PROVIDE EITHER 2X6 WOOD BLOCKING OR METAL STRAP BLOCKING BETWEEN STUDS WITHIN THE WALLS AT GYP BD PARTITIONS TO SUPPORT MILLWORK.
5. FURNISH AND INSTALL ALL ACCESSORIES INDICATED FOR EACH RESTROOM. ADDITIONAL ACCESSORY INFORMATION IS PROVIDED IN THE ACCESSORIES SCHEDULE AND WRITTEN SPECIFICATIONS.
6. IF GRAB BARS ARE MOUNTED TO TOILET PARTITIONS, USE TAMPER PROOF THROUGH BOLTS IN LIEU OF STANDARD ANCHORS/SCREWS. PROVIDE ADDITIONAL SUPPORTS AT WALL MOUNTING FOR TOILET PARTITION TO SUPPORT ADDITIONAL EXPECTED WEIGHT BEING INDUCED ON PARTITION WITH GRAB BAR USE.
7. LAVATORY EXPOSED PIPING SHALL HAVE PROTECTION COVERS MEETING WITH MEETING WITH ICC/ANSI A117.1 SECTION 606.6
8. OWNER FURNISHED ACCESSORIES ARE TO BE CONTRACTOR INSTALLED.

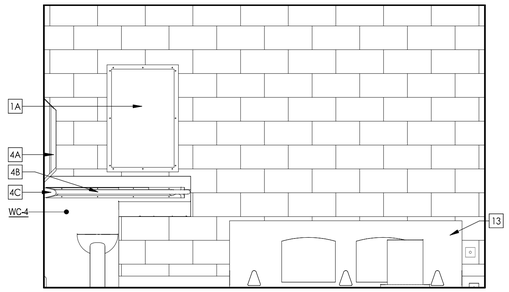
TOILET ACCESSORIES

TAG	DESCRIPTION	SPEC (ID)
1A	MIRROR - 24"X36"	M1
1B	MIRROR - 18"X24"	M2
2	TOILET PAPER DISPENSER	PTD-SM
3	FOAM SOAP DISPENSERS - SURFACE MOUNTED	FSD-SM
4A	GRAB BAR - 18 INCHES LONG	GB-1
4B	GRAB BAR - 36 INCHES LONG	GB-2
4C	GRAB BAR - 42 INCHES LONG	GB-3
5	TOWEL HOOKS	TH
6	NOT USED	
7	MOP AND BROOM HOLDERS	M & BH
8	ELECTRIC HAND DRYER- SURFACED MOUNTED	EHD-SM
9	STAINLESS STEEL SHOWER CONTROL PANEL	BY P-CONTRACT



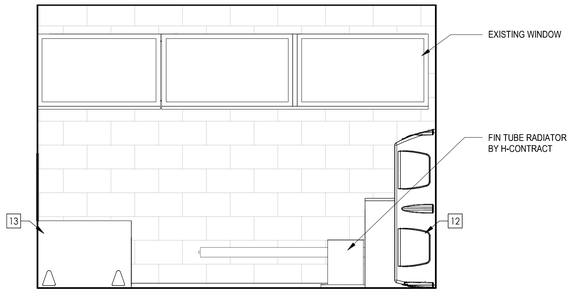
4 A-3401 ACCESSIBLE ROOM ELEVATION

1/2" = 1'-0"



5 A-3401 ACCESSIBLE ROOM ELEVATION 2

1/2" = 1'-0"



6 A-3401 ACCESSIBLE ROOM ELEVATION 3

1/2" = 1'-0"

INSTALL THE FOLLOWING OWNER FURNISHED ACCESSORIES

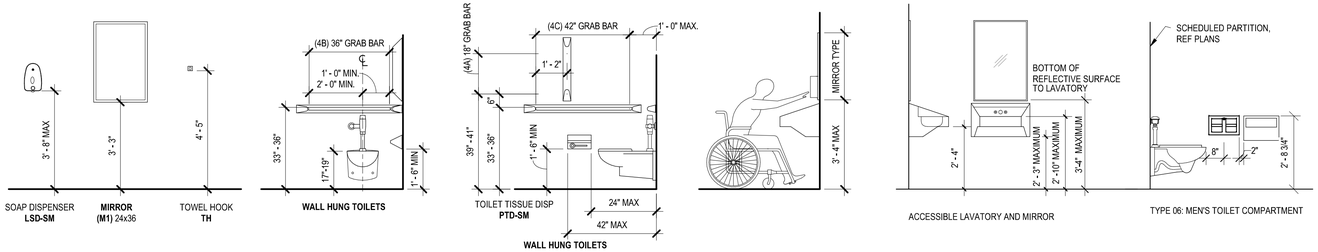
TAG	DESCRIPTION	PRODUCT (ID)
10	ATN500- ATTENDA- STOOL	ST
11	ATN601- ATTENDA- FLOOR MOUNT DESK	FMD
12	ATN301- ATTENDA- BOOKSHELF	BS
13	ATN130- ATTENDA- SPACE SAVER BED W/STORAGE	SSB

GENERAL MOUNTING HEIGHT NOTES

1. THE DIAGRAMS SHOWN ARE INTENDED TO SHOW TYPICAL MOUNTING HEIGHTS, DIMENSIONS, SPATIAL REQUIREMENTS, AND OTHER RELATED RESTROOM CONSTRUCTION INFORMATION, FOR BOTH ACCESSIBLE AND NON-ACCESSIBLE FIXTURES/ACCESSORIES UNLESS OTHERWISE NOTED.
2. COORDINATE IN-WALL FURRING, REINFORCING AND STUD FRAMING TO ENSURE EXACT LOCATIONS OF DEVICES, FIXTURES, ACCESSORIES, AND PRODUCTS ARE ACHIEVED. NOTIFY THE DIRECTOR'S REPRESENTATIVE OF ANY LOCATIONS WHERE CONFLICTS WITH FRAMING OR WALL CONSTRUCTION CAN NOT BE AVOIDED.
3. ALL DEVICE, FIXTURE, ACCESSORY, AND PRODUCT LOCATIONS SHALL BE COORDINATED WITH OTHER ACCESSORY AND FIXTURE SPATIAL REQUIREMENTS TO MAINTAIN ACCESSIBILITY.
4. ALL DIMENSIONS SHOWN ARE TO CENTERLINE OF RECEPTACLE, FIXTURE OR ACCESSORY UNLESS OTHERWISE NOTED.
5. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL MOUNTING HEIGHT INFORMATION.

MOUNTING HEIGHT NOTES:

1. GANG CONTROLS HORIZONTALLY WHEN POSSIBLE. PROVIDE MULTI-GANG FACE PLATES.
2. EXCEPT AS NOTED OTHERWISE, MOUNTING HEIGHTS FROM FINISHED FLOOR TO CENTERLINE ARE AS FOLLOWS:
3. **ALL FIXTURE AND ACCESSORY MOUNTING HEIGHTS ARE MEASURED TO THE FINISHED FLOOR.**



NOTE: RESTROOM ACCESSORIES ILLUSTRATED ARE GENERIC IN NATURE AND FINAL SELECTIONS OF FIXTURES AND ACCESSORIES SHALL BE COORDINATED WITH THE REQUIRED MOUNTING HEIGHTS. CONTRACTOR SHALL ALSO FOLLOW ALL REQUIREMENTS OF INSTALLATION AS SET FORTH BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

33 A-3401 CODE COMPLIANCE - RESTROOM MOUNTING HEIGHTS & DIMENSIONS

3/8" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

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FoitAlbert ASSOCIATES

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REGISTRATION EXPIRES: 04/30/2026

CONTRACT:

CONSTRUCTION

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	APO, JB, AF
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

BUILDING 74 INTERIOR ELEVATIONS

DRAWING NUMBER:

A-3401

SHEET: OF

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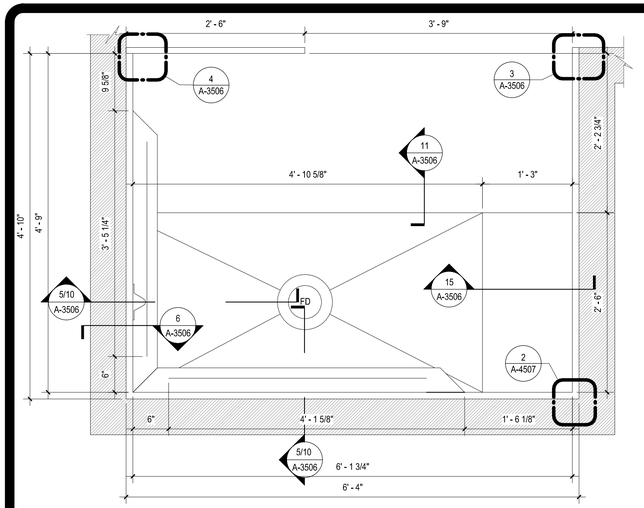
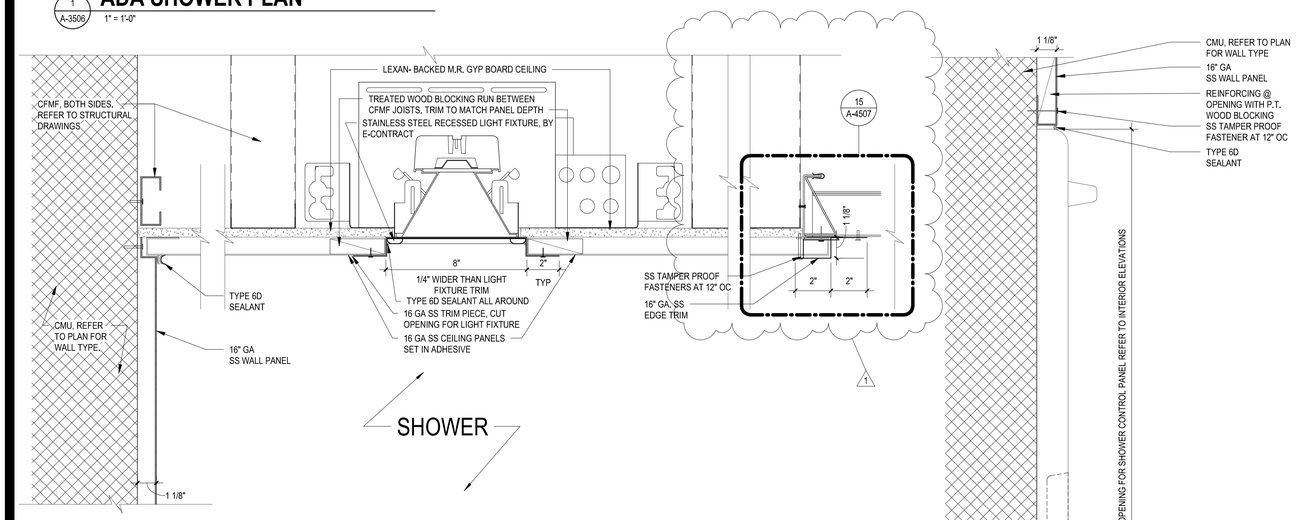
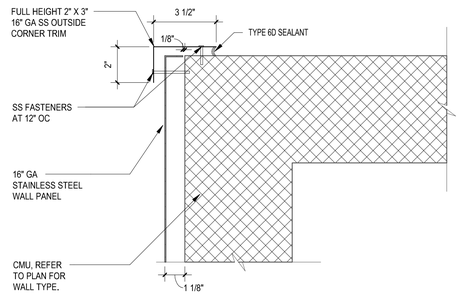


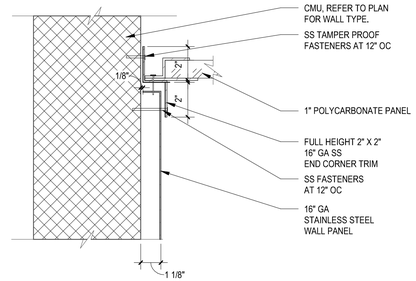
1 A-3506 ADA SHOWER PLAN
1" = 1'-0"



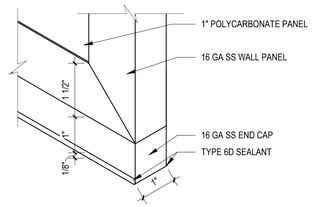
5 A-3506 ADA SHOWER CEILING DETAIL
3" = 1'-0"



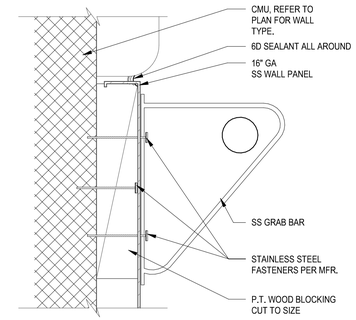
3 A-3506 OUTSIDE CORNER ADA SHOWER DETAIL
3" = 1'-0"



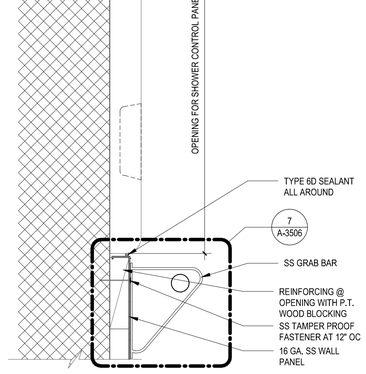
4 A-3506 OUTSIDE EDGE ADA SHOWER DETAIL
3" = 1'-0"



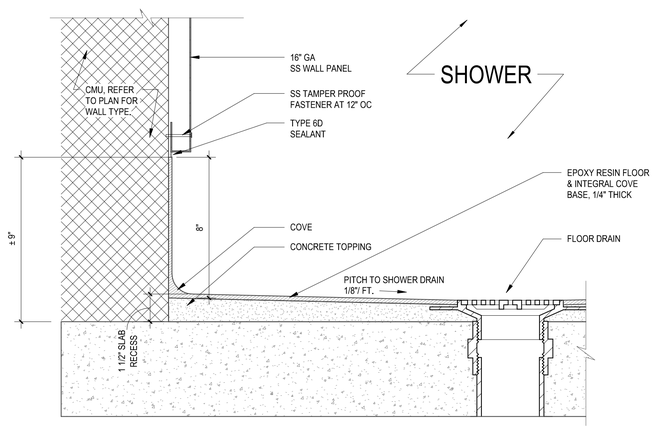
14 A-3506 PANEL END CAP DETAIL
6" = 1'-0"



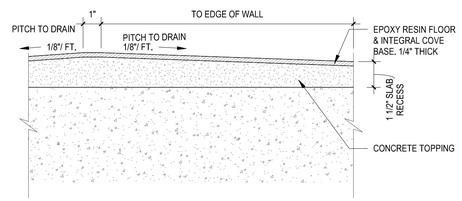
7 A-3506 ADA SHOWER GRAB-BAR DETAIL
6" = 1'-0"



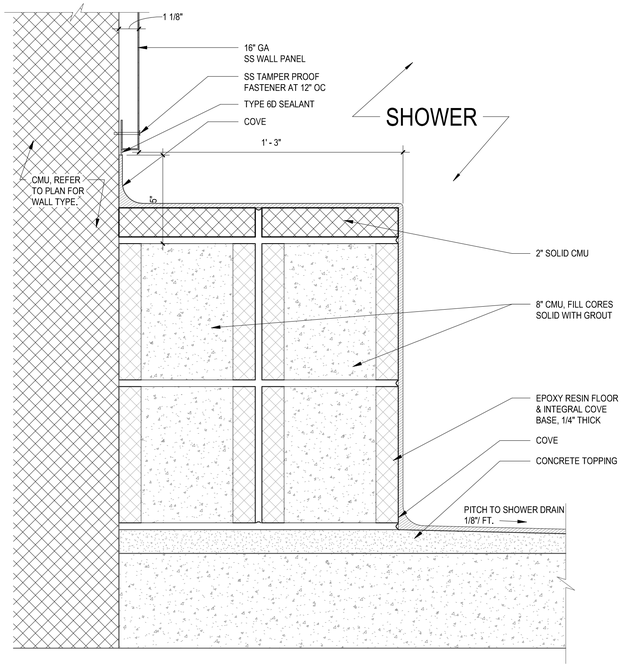
6 A-3506 ADA SHOWER CONTROL PANEL DETAIL
3" = 1'-0"



10 A-3506 ADA SHOWER BASE DETAIL
3" = 1'-0"



11 A-3506 ADA SHOWER BASE EDGE DETAIL
3" = 1'-0"



15 A-3506 ADA SHOWER SEAT DETAIL
3" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

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CONTRACT:
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LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 74 ADA SHOWER DETAILS

DRAWING NUMBER:
A-3506

SHEET: OF

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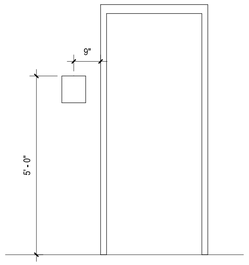
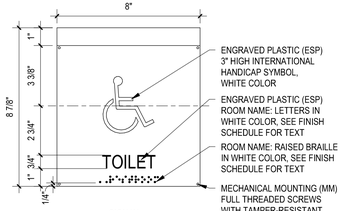
36x24 PLOT SHEET



1 A-3605

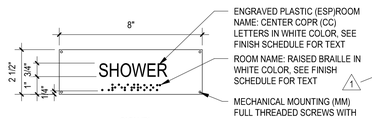
SIGNAGE LOCATION

1/2" = 1'-0"



SIGN 'A'

COPY STYLE 4: HELVETICA MEDIUM, UPPER CASE, 3/4" HEIGHT, WITH HANDICAPPED ACCESSIBILITY PICTOGRAM AND GRADE 2 BRAILLE BELOW COPY.



SIGN 'B'

COPY STYLE 1: HELVETICA MEDIUM, UPPER CASE, 3/4" HEIGHT, WITH GRADE 2 BRAILLE BELOW COPY.

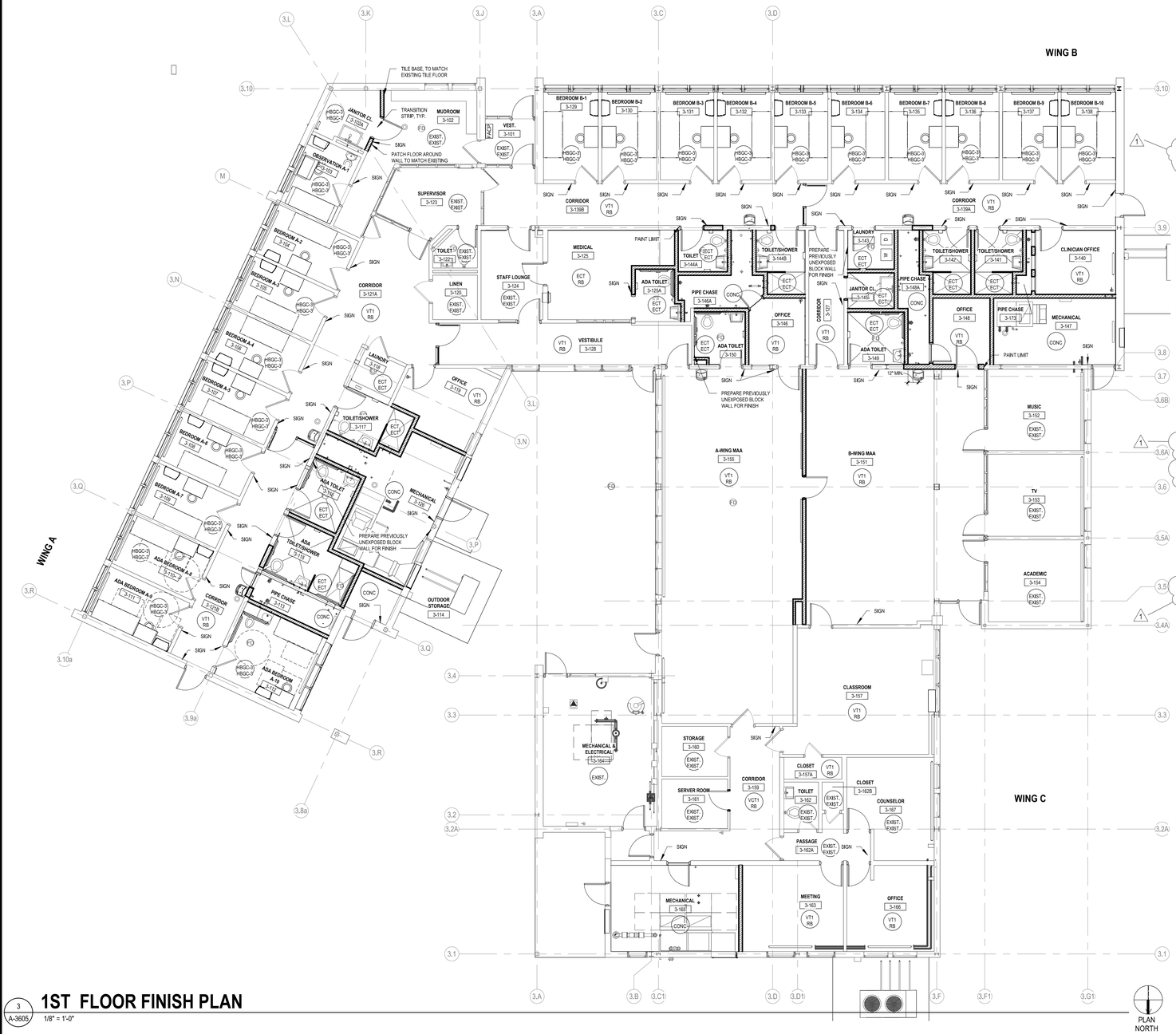
ABBREVIATIONS

CMU	CONCRETE MASONRY UNIT
CONC	EXPOSED CONCRETE
ECT	EPOXY RESIN FLOORING
GWB-1	GYPSUM WALL BOARD - MOLD AND MOISTURE RESISTANT, POLYCARBONATE-BACKED
HBGC-3	HIGH BUILD GLAZED COATING
IAL-2	SEE SPECIFICATION SECTION 099101 FOR DESCRIPTION
IAL-3	SEE SPECIFICATION SECTION 099101 FOR DESCRIPTION
MPCS-1	SUSPENDED METAL PANEL CEILING SYSTEM
MPCS-2	METAL PLANK CEILING SYSTEM
MPCS-3	SS METAL PLANK CEILING SYSTEM
RB	RESILIENT BASE
VT1	VINYL TILE 1
TB	TILE BASE
EXIST	EXISTING TO REMAIN

2 A-3605

SIGN DETAIL

3" = 1'-0"



3 A-3605

1ST FLOOR FINISH PLAN

1/8" = 1'-0"

BUILDING 74 - ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING TYPE	ROOM SIGN TYPE	SIGN MESSAGE	REMARKS
3-101	VEST.	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
3-102	MUDROOM	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			CERAMIC MOSAIC TILE BASE TO MATCH EXISTING
3-102A	JANITOR CL.	HBGC-3	HBGC-3	IAL-2	IAL-2	GWB-1	B	JANITOR CLOSET	
3-103	OBSERVATION A-1	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	OBSERVATION A-1	
3-104	BEDROOM A-2	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-2	
3-105	BEDROOM A-3	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-3	
3-106	BEDROOM A-4	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-4	
3-107	BEDROOM A-5	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-5	
3-108	BEDROOM A-6	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-6	
3-109	BEDROOM A-7	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM A-7	
3-110	ADA BEDROOM A-8	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	A	BEDROOM A-8	
3-111	ADA BEDROOM A-9	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	A	BEDROOM A-9	
3-112	ADA BEDROOM A-10	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	A	BEDROOM A-10	
3-113	PIPE CHASE	CONC	-	-	NONE	-		-	
3-114	OUTDOOR STORAGE	CONC	-	IAL-2	PREFINISHED	MPCS-1	B	EXIT	
3-115	ADA TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	A	TOILET/SHOWER	SS PANELS OVER SHOWER
3-116	ADA TOILET	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	A	TOILET	
3-117	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
3-118	LAUNDRY	ECT	ECT	IAL-2	PREFINISHED	MPCS-1			
3-119	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1			EAST, WEST & NORTH WALLS: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
3-120	LINEN	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
3-121A	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
3-121B	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	EXIT	
3-122	TOILET	EXIST.	EXIST.	IAL-3	IAL-3	GWB-1			
3-123	SUPERVISOR	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
3-124	STAFF LOUNGE	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			EAST WALL: PATCH, PRIME & PAINT EXISTING GYPSUM BOARD AT DOOR AND MED PASS THRU OPENING. DO NOT PAINT EXISTING BRICK PILASTER.
3-125	MEDICAL	ECT	RB	IAL-2	PREFINISHED	MPCS-1			
3-125A	ADA TOILET	ECT	ECT	IAL-2	PREFINISHED	MPCS-3	A	TOILET	
3-126	MECHANICAL	CONC	-	IAL-2	NONE	-	B	EXIT	EAST WALL: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
3-127	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
3-128	VESTIBULE	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
3-129	BEDROOM B-1	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPC-1	B	BEDROOM B-1	SS PANEL AT UNDERSIDE OF WINDOW
3-130	BEDROOM B-2	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-2	SS PANEL AT UNDERSIDE OF WINDOW
3-131	BEDROOM B-3	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-3	SS PANEL AT UNDERSIDE OF WINDOW
3-132	BEDROOM B-4	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-4	SS PANEL AT UNDERSIDE OF WINDOW
3-133	BEDROOM B-5	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-5	SS PANEL AT UNDERSIDE OF WINDOW
3-134	BEDROOM B-6	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-6	SS PANEL AT UNDERSIDE OF WINDOW
3-135	BEDROOM B-7	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-7	SS PANEL AT UNDERSIDE OF WINDOW
3-136	BEDROOM B-8	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-8	SS PANEL AT UNDERSIDE OF WINDOW
3-137	BEDROOM B-9	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-9	SS PANEL AT UNDERSIDE OF WINDOW
3-138	BEDROOM B-10	HBGC-3	HBGC-3	IAL-2	PREFINISHED	MPCS-2	B	BEDROOM B-10	SS PANEL AT UNDERSIDE OF WINDOW
3-139A	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	EXIT	
3-139B	CORRIDOR	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
3-140	CLINICIAN OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	CLINICIAN OFFICE	EAST WALL: PREP EXISTING FULL-HEIGHT GLAZED CMU WALL FOR PAINT.
3-141	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
3-142	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
3-143	LAUNDRY	ECT	ECT	IAL-2	PREFINISHED	MPCS-1	B	LAUNDRY	
3-144A	TOILET	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET	
3-144B	TOILET/SHOWER	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	B	TOILET/SHOWER	SS PANELS OVER SHOWER
3-145	JANITOR CL.	ECT	ECT	IAL-2	PREFINISHED	MPCS-1	B	JANITOR CLOSET	WEST WALL: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
3-146	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	OFFICE	
3-146A	PIPE CHASE	CONC			NONE	-			
3-147	MECHANICAL	CONC		IAL-2	NONE	-	B	EXIT	EAST & SOUTH WALLS: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
3-148	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	OFFICE	
3-148A	PIPE CHASE	CONC			NONE	-			
3-149	ADA TOILET	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	A	TOILET	WEST WALL: PREP EXISTING GLAZED CMU WALL BASE COURSE FOR PAINT.
3-150	ADA TOILET	ECT	ECT	IAL-3	PREFINISHED	MPCS-3	A	TOILET	
3-151	B-WING MAA	VT1	RB	IAL-2	PREFINISHED	MPCS-1			RB AT REPAIRED NORTH WALL
3-152	MUSIC	EXIST.	EXIST.	IAL-2	PREFINISHED	MPC-1			
3-153	TV	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
3-154	ACADEMIC	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
3-155	A-WING MAA	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
3-157	CLASSROOM	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	CLASSROOM	PRIME & PAINT BOTH GYPSUM BOARD AND EXISTING CMU SURFACES
3-157A	CLOSET	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
3-159	CORRIDOR	VCT1	RB	IAL-2	PREFINISHED	MPCS-1			
3-160	STORAGE	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
3-161	SERVER ROOM	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
3-162	TOILET	EXIST.	EXIST.	IAL-2	IAL-3	GWB-1			
3-162A	PASSAGE	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
3-162B	CLOSET	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
3-163	MEETING	VT1	RB	IAL-2	PREFINISHED	MPCS-1			
3-164	MECHANICAL & ELECTRICAL	EXIST.		IAL-2	NONE	-			
3-165	MECHANICAL	CONC		IAL-2	NONE	-	B	MECHANICAL	
3-166	OFFICE	VT1	RB	IAL-2	PREFINISHED	MPCS-1	B	OFFICE	
3-167	COUNSELOR	EXIST.	EXIST.	IAL-2	PREFINISHED	MPCS-1			
3-173	PIPE CHASE	CONC			NONE	-			

NOTES:
1. REFER TO DOOR SCHEDULE FOR DOOR & FRAME PAINTING
2. PAINT ALL WINDOW FRAMES IN ROOMS SCHEDULED TO BE PAINTED
3. PAINT ALL GYPSUM BOARD SOFFITS IN ROOMS SCHEDULED TO BE PAINTED
4. PAINT FULL ROOM UNLESS PAINT LIMITS ARE INDICATED ON DRAWINGS
5. PIPE CHASE SPACES TO RECEIVE CONC FLOOR W/ HARDENER. NO CEILINGS & NO PAINT
6. EXPOSED CONCRETE SURFACES SHALL RECEIVE HARDENER
7. SIGNAGE TO BE PLACED IN THE LOCATIONS INDICATED ON THE FINISHES PLANS (OUTSIDE OF THEIR RESPECTIVE ROOMS)
8. REFER TO REFLECTED CEILING PLANS FOR CEILING FINISH
9. EPOXY RESIN WALL BASE TO BE 8" HIGH
10. REFER TO SPECIFICATION SECTION 101423 SIGNS FOR INFORMATION ABOUT SIGN MOUNTING LOCATIONS, COPY POSITION, COPY STYLE, MOUNTING MATERIALS,GRAPHIC PROCESS, AND SIGN TYPE.
11. REFER TO 12/4502 FOR DRAIN DETAIL
12. PAINT SHOWER CEILINGS BEFORE INSTALLING STAINLESS STEEL PANEL SYSTEM.

NEW YORK STATE OF OPPORTUNITY. | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26960 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:

CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

1	07/11/2025	ADDENDUM #2
MARK	DATE	DESCRIPTION

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF, APO
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

BUILDING 74 ROOM FINISH SCHEDULE

DRAWING NUMBER:

A-3605

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74//OGS BedBath Upgrades_Bldg-74_V22.rvt
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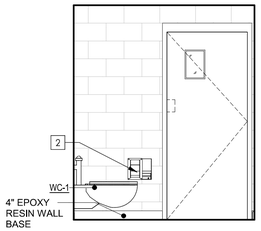
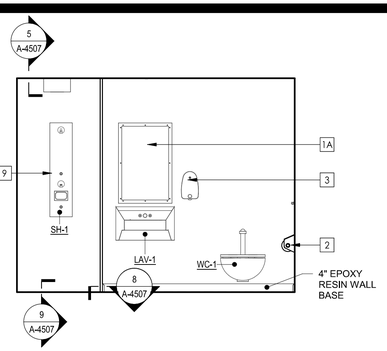
36oA PLOT SHEET



* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

TYPICAL INTERIOR ELEVATION - TOILET

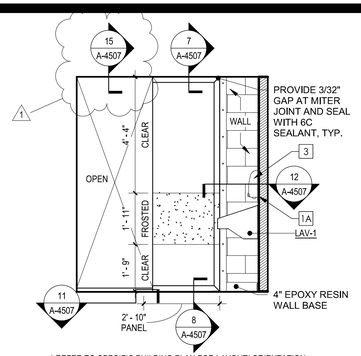
1 A-4401 — 3/8" = 1'-0"



* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

TYPICAL INTERIOR ELEV - BATHROOM

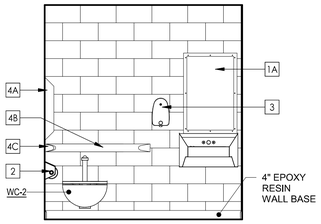
2 A-4401 — 3/8" = 1'-0"



* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

TYPICAL INTERIOR ELEVATION - TOILET

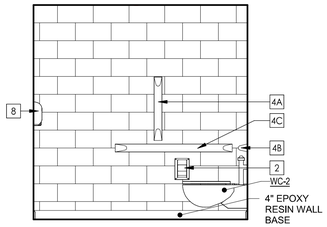
3 A-4401 — 3/8" = 1'-0"



* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

TYPICAL INTERIOR ELEV - ACCESSIBLE TOILET

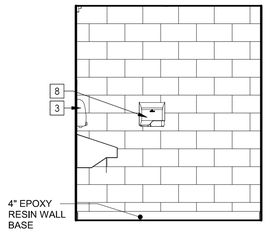
4 A-4401 — 3/8" = 1'-0"



* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

TYPICAL INTERIOR ELEV - ACCESSIBLE TOILET

5 A-4401 — 3/8" = 1'-0"



* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

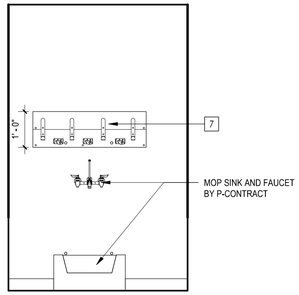
TYPICAL INTERIOR ELEVATION - ACCESSIBLE TOILET

6 A-4401 — 3/8" = 1'-0"

PLUMBING FIXTURES BY P-CONTRACT

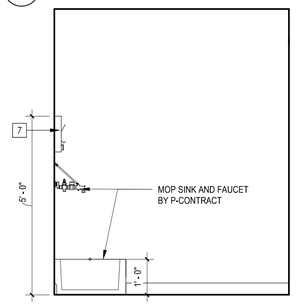
TAG	DESCRIPTION
WC-1	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-2	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-3	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING IN EXISTING 6" CMU WALL AS NOTED ON DRAWING A-4510
WC-4	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-1	SHOWER BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-2	SHOWER BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
LAV-1	LAVATORY BY P CONTRACT.
LAV-2	LAVATORY BY P CONTRACT.

* **NOTE:** REFER TO DRAWING A-4510 FOR BLOCKOUT DETAILS



JANITOR CLO ELEVATION

12 A-4401 — 1/2" = 1'-0"



JANITOR CLO ELEVATION

13 A-4401 — 1/2" = 1'-0"

RESTROOM NOTES

1. DIMENSIONS AND CLEARANCES PROVIDED IN THE DRAWINGS FOR RESTROOMS (PLANS AND ELEVATIONS) ARE IN COMPLIANCE WITH INTERNATIONAL BUILDING CODE 2015 AND THE ICC/ANSI A117.1 STANDARDS (UON)
2. TOILET PARTITIONS ARE HEAD SUPPORTED AT THE CEILING, WOOD BLOCKING SHALL BE PROVIDED TO SUPPORT THE TOP OF THE PARTITION STILES ABOVE THE GYPSUM WALLBOARD, REF. DETAIL
3. GRAB BARS AND OTHER WALL MOUNTED ACCESSORIES ARE ILLUSTRATED IN ELEVATION AND PLANS, SHOWING TYPICAL MOUNTING HEIGHT, LOCATIONS AND CLEARANCES REQUIRED. WOOD BLOCKING SHALL BE PROVIDED FOR ALL WALL MOUNTED ACCESSORIES IN METAL STUD WALLS, INCLUDING GRAB BARS. COORDINATE WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. EPOXY ANCHORS SHALL BE USED IN MASONRY WALLS.
4. PROVIDE EITHER 2X6 WOOD BLOCKING OR METAL STRAP BLOCKING BETWEEN STUDS WITHIN THE WALLS AT GYP BD PARTITIONS TO SUPPORT MILLWORK.
5. FURNISH AND INSTALL ALL ACCESSORIES INDICATED FOR EACH RESTROOM, ADDITIONAL ACCESSORY INFORMATION IS PROVIDED IN THE ACCESSORIES SCHEDULE AND WRITTEN SPECIFICATIONS.
6. IF GRAB BARS ARE MOUNTED TO TOILET PARTITIONS, USE TAMPER PROOF THROUGH BOLTS IN LIEU OF STANDARD ANCHORS/SCREWS, PROVIDE ADDITIONAL SUPPORTS AT WALL MOUNTING FOR TOILET PARTITION TO SUPPORT ADDITIONAL EXPECTED WEIGHT BEING INDUCED ON PARTITION WITH GRAB BAR USE.
7. LAVATORY EXPOSED PIPING SHALL HAVE PROTECTION COVERS MEETING WITH MEETING WITH ICC/ANSI A117.1 SECTION 606.6
8. OWNER FURNISHED ACCESSORIES ARE TO BE CONTRACTOR INSTALLED.

TOILET ACCESSORIES

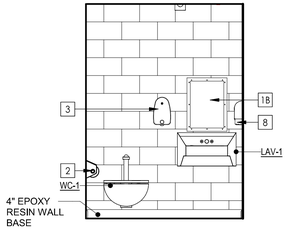
TAG	DESCRIPTION	SPEC (ID)
1A	MIRROR - 24"X36"	M1
1B	MIRROR - 18"X24"	M2
2	TOILET PAPER DISPENSER	PTD-SM
3	FOAM SOAP DISPENSERS - SURFACE MOUNTED	FSD-SM
4A	GRAB BAR - 18 INCHES LONG	GB-1
4B	GRAB BAR - 36 INCHES LONG	GB-2
4C	GRAB BAR - 42 INCHES LONG	GB-3
5	TOWEL HOOKS	TH
6	NOT USED	
7	MOP AND BROOM HOLDERS	M & BH
8	ELECTRIC HAND DRYER- SURFACED MOUNTED	EHD-SM
9	STAINLESS STEEL SHOWER CONTROL PANEL	BY P-CONTRACT

GENERAL MOUNTING HEIGHT NOTES

1. THE DIAGRAMS SHOWN ARE INTENDED TO SHOW TYPICAL MOUNTING HEIGHTS, DIMENSIONS, SPATIAL REQUIREMENTS, AND OTHER RELATED RESTROOM CONSTRUCTION INFORMATION, FOR BOTH ACCESSIBLE AND NON-ACCESSIBLE FIXTURES/ACCESSORIES UNLESS OTHERWISE NOTED.
2. COORDINATE IN-WALL FURRING, REINFORCING AND STUD FRAMING TO ENSURE EXACT LOCATIONS OF DEVICES, FIXTURES, ACCESSORIES, AND PRODUCTS ARE ACHIEVED. NOTIFY THE DIRECTOR'S REPRESENTATIVE OF ANY LOCATIONS WHERE CONFLICTS WITH FRAMING OR WALL CONSTRUCTION CAN NOT BE AVOIDED.
3. ALL DEVICE, FIXTURE, ACCESSORY, AND PRODUCT LOCATIONS SHALL BE COORDINATED WITH OTHER ACCESSORY AND FIXTURE SPATIAL REQUIREMENTS TO MAINTAIN ACCESSIBILITY.
4. ALL DIMENSIONS SHOWN ARE TO CENTERLINE OF RECEPTACLE, FIXTURE OR ACCESSORY UNLESS OTHERWISE NOTED.
5. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL MOUNTING HEIGHT INFORMATION.

MOUNTING HEIGHT NOTES:

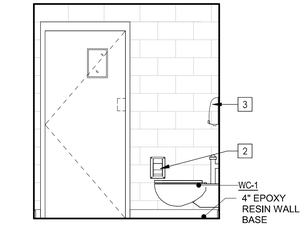
1. GANG CONTROLS HORIZONTALLY WHEN POSSIBLE, PROVIDE MULTI-GANG FACE PLATES.
2. EXCEPT AS NOTED OTHERWISE, MOUNTING HEIGHTS FROM FINISHED FLOOR TO CENTERLINE ARE AS FOLLOWS:
3. **ALL FIXTURE AND ACCESSORY MOUNTING HEIGHTS ARE MEASURED TO THE FINISHED FLOOR.**



* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

TYPICAL INTERIOR ELEVATION - TOILET

7 A-4401 — 3/8" = 1'-0"



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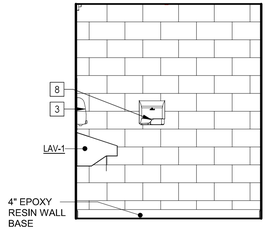

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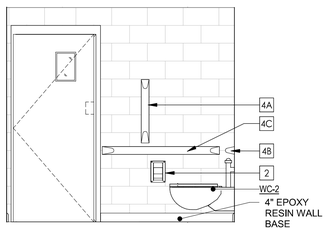
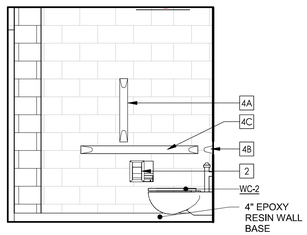


* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

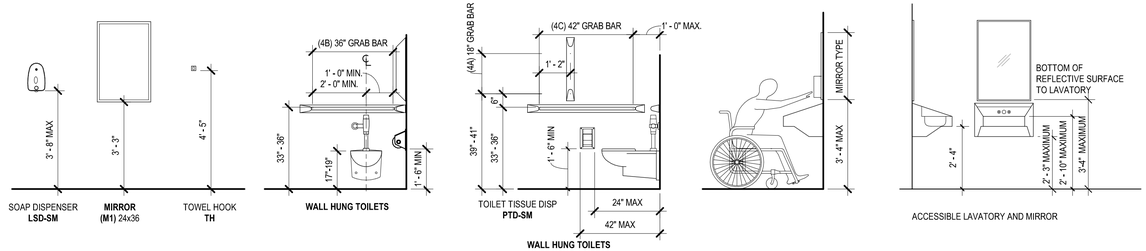
TYPICAL INTERIOR ELEV - ACCESSIBLE TOILET

14 A-4401 — 3/8" = 1'-0"



TYPICAL INTERIOR ELEV - ACCESSIBLE TOILET

15 A-4401 — 3/8" = 1'-0"



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CODE COMPLIANCE - RESTROOM MOUNTING HEIGHTS & DIMENSIONS

10 A-4401 — 3/8" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES

Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

UNIFORM CODE STATEMENT:
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REGISTERED ARCHITECT BRUCE T. BIKULIT NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:

CONSTRUCTION

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF, APO
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

INTERIOR ELEVATIONS

DRAWING NUMBER:

A-4401

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
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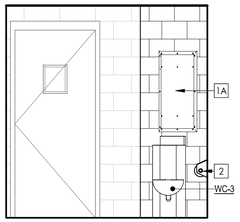
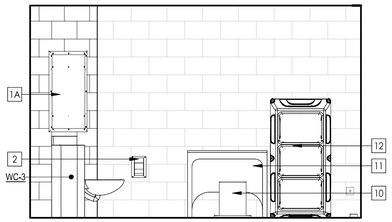
36x24 PLOT SHEET



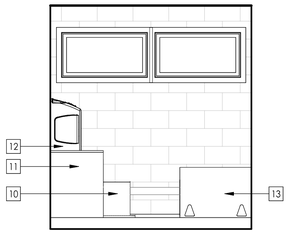
INTERIOR ELEV - WETROOM

1 A-4402 3/8" = 1'-0"



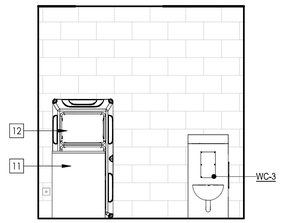
INTERIOR ELEV - WETROOM

2 A-4402 3/8" = 1'-0"



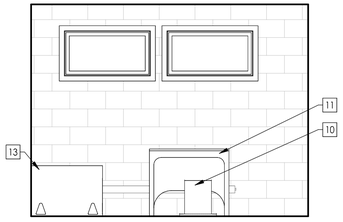
INETERIOR ELEV - WETROOM

3 A-4402 3/8" = 1'-0"



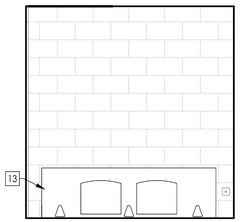
INTERIOR ELEVATION - OBSERVATION RM

4 A-4402 3/8" = 1'-0"



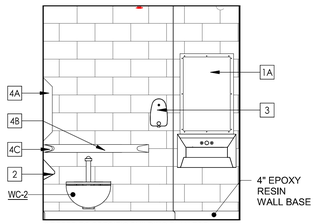
INTERIOR ELEVATION - OBSERVATION RM

5 A-4402 3/8" = 1'-0"



INTERIOR ELEVATION - OBSERVATION RM

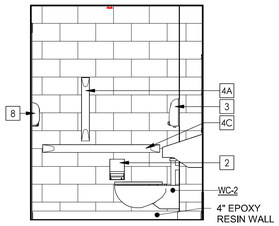
6 A-4402 3/8" = 1'-0"



* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

TYPICAL INTERIOR ELEV - ADA TOLET AT MEIDCAL

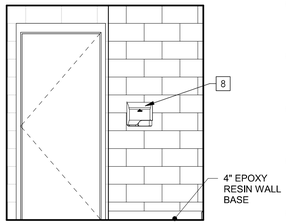
9 A-4402 3/8" = 1'-0"



* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

TYPICAL INTERIOR ELEV - ADA TOILET AT MEDICAL

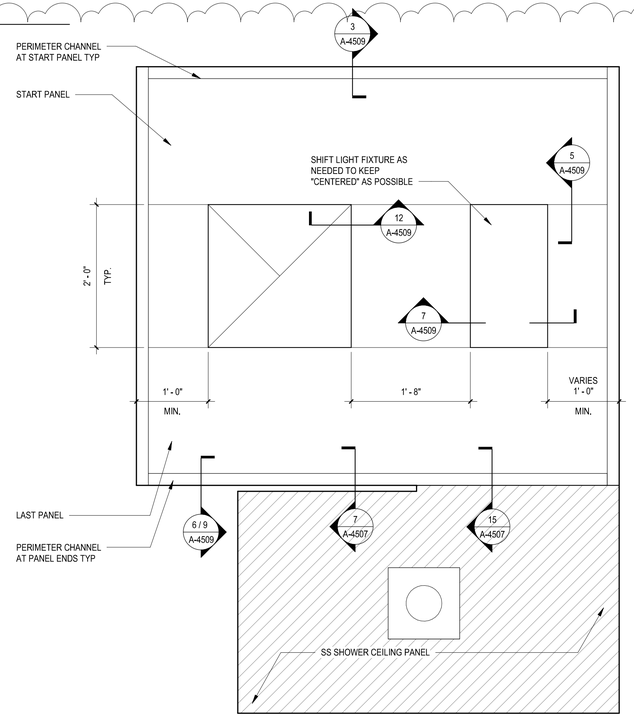
10 A-4402 3/8" = 1'-0"



* REFER TO SPECIFIC BUILDING PLAN FOR LAYOUT/ ORIENTATION

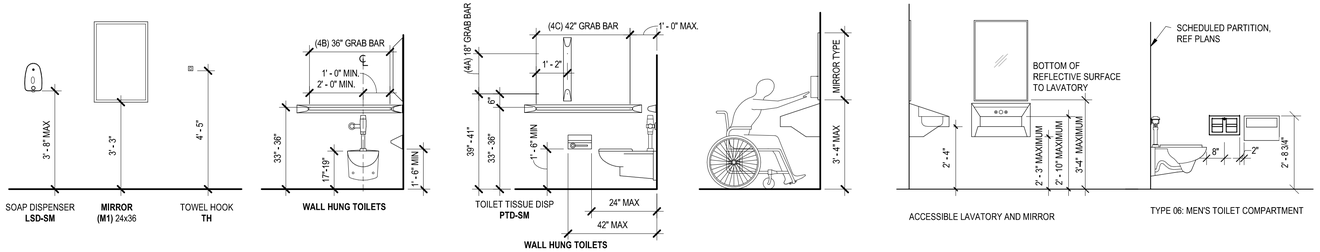
TYPICAL INTERIOR ELEV - ADA TOILET AT MEDICAL

11 A-4402 3/8" = 1'-0"



GENERIC REFLECTED CEILING PLAN FOR CEILING TYPE MPCS-3

7 A-4402 1" = 1'-0"



NOTE: RESTROOM ACCESSORIES ILLUSTRATED ARE GENERIC IN NATURE AND FINAL SELECTIONS OF FIXTURES AND ACCESSORIES SHALL BE COORDINATED WITH THE REQUIRED MOUNTING HEIGHTS. CONTRACTOR SHALL ALSO FOLLOW ALL REQUIREMENTS OF INSTALLATION AS SET FORTH BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

CODE COMPLIANCE - RESTROOM MOUNTING HEIGHTS & DIMENSIONS

8 A-4402 3/8" = 1'-0"

PLUMBING FIXTURES BY P-CONTRACT

TAG	DESCRIPTION
WC-1	WATER CLOSET BY P CONTRACT, PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-2	WATER CLOSET BY P CONTRACT, PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
WC-3	WATER CLOSET BY P CONTRACT, PROVIDE MASONRY OPENING IN EXISTING 6" CMU WALL AS NOTED ON DRAWING A-4510
WC-4	WATER CLOSET BY P CONTRACT. PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-1	SHOWER BY P CONTRACT, PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
SH-2	SHOWER BY P CONTRACT, PROVIDE MASONRY OPENING AS NOTED ON DRAWING A-4510
LAV-1	LAVATORY BY P CONTRACT.
LAV-2	LAVATORY BY P CONTRACT.

* **NOTE:** REFER TO DRAWING A-4510 FOR BLOCKOUT DETAILS

RESTROOM NOTES

1. DIMENSIONS AND CLEARANCES PROVIDED IN THE DRAWINGS FOR RESTROOMS (PLANS AND ELEVATIONS) ARE IN COMPLIANCE WITH INTERNATIONAL BUILDING CODE 2015 AND THE ICC/ANSI A117.1 STANDARDS (UON)
2. TOILET PARTITIONS ARE HEAD SUPPORTED AT THE CEILING, WOOD BLOCKING SHALL BE PROVIDED TO SUPPORT THE TOP OF THE PARTITION STILES ABOVE THE GYPSUM WALLBOARD, REF. DETAIL
3. GRAB BARS AND OTHER WALL MOUNTED ACCESSORIES ARE ILLUSTRATED IN ELEVATION AND PLANS, SHOWING TYPICAL MOUNTING HEIGHT, LOCATIONS AND CLEARANCES REQUIRED. WOOD BLOCKING SHALL BE PROVIDED FOR ALL WALL MOUNTED ACCESSORIES IN METAL STUD WALLS, INCLUDING GRAB BARS. COORDINATE WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. EPOXY ANCHORS SHALL BE USED IN MASONRY WALLS.
4. PROVIDE EITHER 2X6 WOOD BLOCKING OR METAL STRAP BLOCKING BETWEEN STUDS WITHIN THE WALLS AT GYP BD PARTITIONS TO SUPPORT MILLWORK.
5. FURNISH AND INSTALL ALL ACCESSORIES INDICATED FOR EACH RESTROOM. ADDITIONAL ACCESSORY INFORMATION IS PROVIDED IN THE ACCESSORIES SCHEDULE AND WRITTEN SPECIFICATIONS.
6. IF GRAB BARS ARE MOUNTED TO TOILET PARTITIONS, USE TAMPER PROOF THROUGH BOLTS IN LIEU OF STANDARD ANCHORS/SCREWS. PROVIDE ADDITIONAL SUPPORTS AT WALL MOUNTING FOR TOILET PARTITION TO SUPPORT ADDITIONAL EXPECTED WEIGHT BEING INDUCED ON PARTITION WITH GRAB BAR USE.
7. LAVATORY EXPOSED PIPING SHALL HAVE PROTECTION COVERS MEETING WITH MEETING WITH ICC/ANSI A117.1 SECTION 606.6
8. OWNER FURNISHED ACCESSORIES ARE TO BE CONTRACTOR INSTALLED.

TOILET ACCESSORIES

TAG	DESCRIPTION	SPEC (ID)
1A	MIRROR - 24"X36"	M1
1B	MIRROR - 18"X24"	M2
2	TOILET PAPER DISPENSER	PTD-SM
3	FOAM SOAP DISPENSERS - SURFACE MOUNTED	FSD-SM
4A	GRAB BAR - 18 INCHES LONG	GB-1
4B	GRAB BAR - 36 INCHES LONG	GB-2
4C	GRAB BAR - 42 INCHES LONG	GB-3
5	TOWEL HOOKS	TH
6	NOT USED	
7	MOP AND BROOM HOLDERS	M & BH
8	ELECTRIC HAND DRYER- SURFACED MOUNTED	EHD-SM
9	STAINLESS STEEL SHOWER CONTROL PANEL	BY P-CONTRACT

INSTALL THE FOLLOWING OWNER FURNISHED ACCESSORIES

TAG	DESCRIPTION	PRODUCT (ID)
10	ATN500- ATTENDA- STOOL	ST
11	ATN601- ATTENDA- FLOOR MOUNT DESK	FMD
12	ATN301- ATTENDA- BOOKSHELF	BS
13	ATN130- ATTENDA- SPACE SAVER BED W/STORAGE	SSB

GENERAL MOUNTING HEIGHT NOTES

1. THE DIAGRAMS SHOWN ARE INTENDED TO SHOW TYPICAL MOUNTING HEIGHTS, DIMENSIONS, SPATIAL REQUIREMENTS, AND OTHER RELATED RESTROOM CONSTRUCTION INFORMATION, FOR BOTH ACCESSIBLE AND NON-ACCESSIBLE FIXTURES/ACCESSORIES UNLESS OTHERWISE NOTED.
2. COORDINATE IN-WALL FURRING, REINFORCING AND STUD FRAMING TO ENSURE EXACT LOCATIONS OF DEVICES, FIXTURES, ACCESSORIES, AND PRODUCTS ARE ACHIEVED. NOTIFY THE DIRECTOR'S REPRESENTATIVE OF ANY LOCATIONS WHERE CONFLICTS WITH FRAMING OR WALL CONSTRUCTION CAN NOT BE AVOIDED.
3. ALL DEVICE, FIXTURE, ACCESSORY, AND PRODUCT LOCATIONS SHALL BE COORDINATED WITH OTHER ACCESSORY AND FIXTURE SPATIAL REQUIREMENTS TO MAINTAIN ACCESSIBILITY.
4. ALL DIMENSIONS SHOWN ARE TO CENTERLINE OF RECEPTACLE, FIXTURE OR ACCESSORY UNLESS OTHERWISE NOTED.
5. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL MOUNTING HEIGHT INFORMATION.

MOUNTING HEIGHT NOTES:

1. GANG CONTROLS HORIZONTALLY WHEN POSSIBLE. PROVIDE MULTI-GANG FACE PLATES.
2. EXCEPT AS NOTED OTHERWISE, MOUNTING HEIGHTS FROM FINISHED FLOOR TO CENTERLINE ARE AS FOLLOWS:
3. **ALL FIXTURE AND ACCESSORY MOUNTING HEIGHTS ARE MEASURED TO THE FINISHED FLOOR.**

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES

Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT BRUCE T. BIGELOW NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT: CONSTRUCTION

TITLE: PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION: INDUSTRY LIMITED SECURE CENTER 375 RUSH-SCOTTSVILLE ROAD RUSH, NY 14543

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

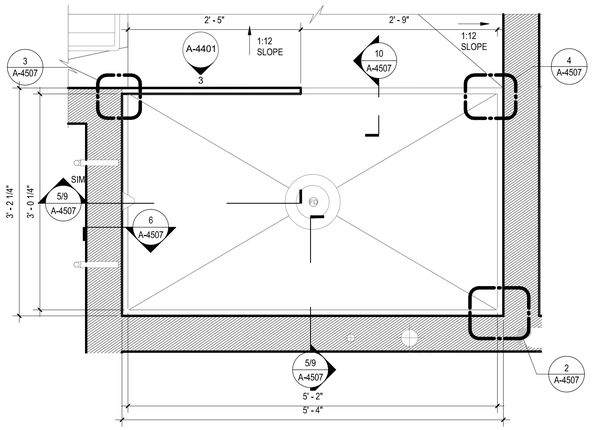
PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF
FIELD CHECK:	
APPROVED:	

SHEET TITLE: INTERIOR ELEVATIONS

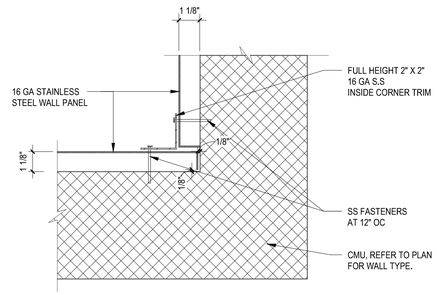
DRAWING NUMBER: A-4402

SHEET: OF

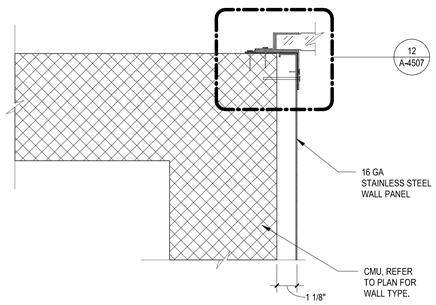
Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:11:22 PM
36x24 PLOT SHEET



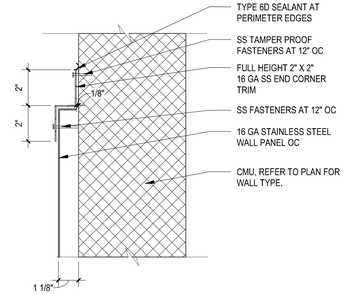
1 TYPICAL SHOWER PLAN
1 A-4507 — 1" = 1'-0"



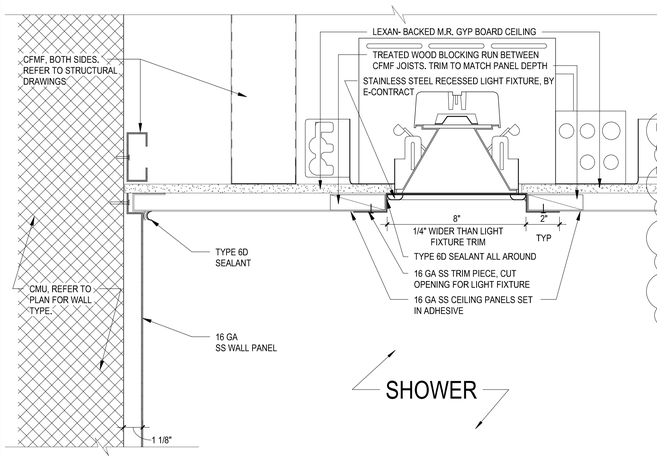
TYPICAL INSIDE CORNER SHOWER DETAIL
2 A-4507 — 3" = 1'-0"



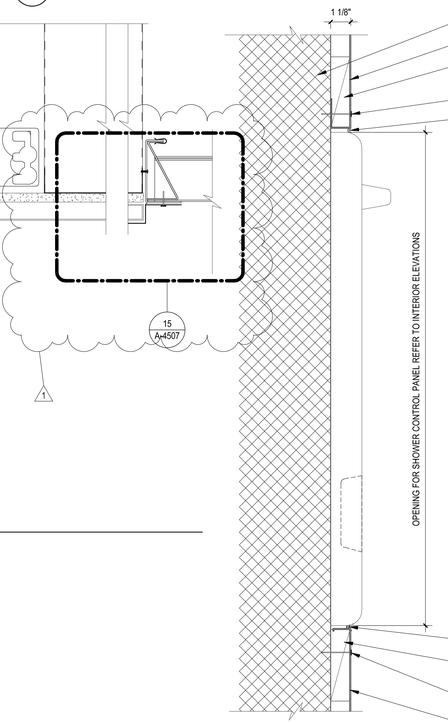
TYPICAL OUTSIDE CORNER SHOWER DETAIL
3 A-4507 — 3" = 1'-0"



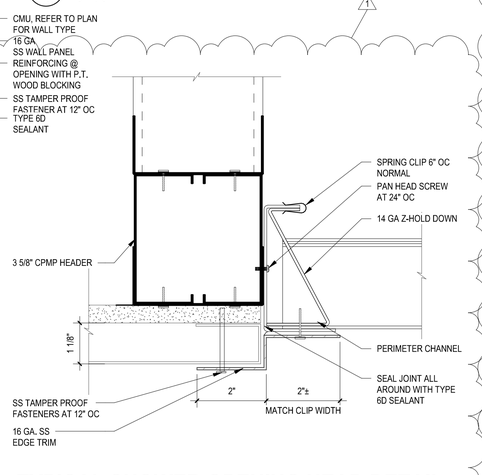
TYPICAL OUTSIDE EDGE SHOWER DETAIL
4 A-4507 — 3" = 1'-0"



5 TYPICAL SHOWER CEILING DETAIL
5 A-4507 — 3" = 1'-0"

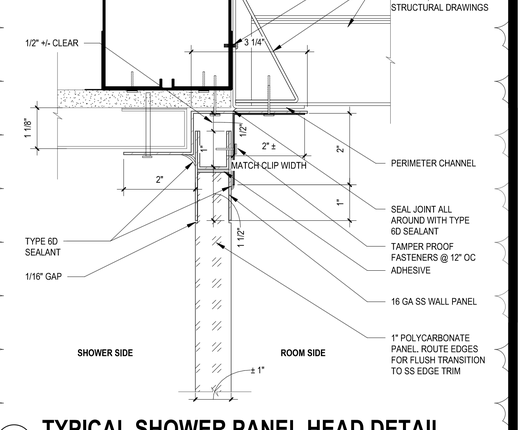


TYPICAL SHOWER CONTROL PANEL DETAIL
6 A-4507 — 3" = 1'-0"

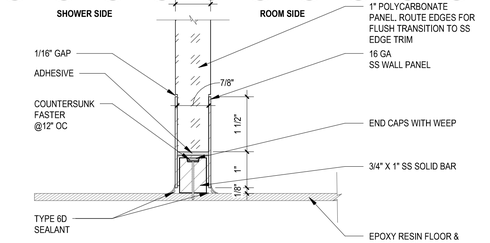


TYPICAL SHOWER OPENING HEAD DETAIL
15 A-4507 — 6" = 1'-0"

PANEL END CAP DETAIL
13 A-4507 — 6" = 1'-0"

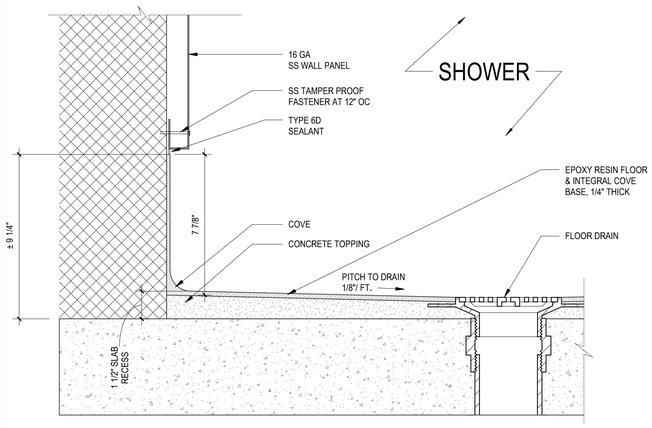


7 TYPICAL SHOWER PANEL HEAD DETAIL
7 A-4507 — 6" = 1'-0"

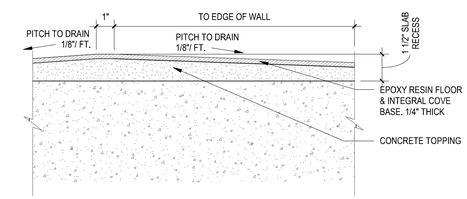


* NOTE: DRILL ALL PANEL FASTENER HOLES 1/8" LARGER THAN FASTENER SHAFT DIAMETER.

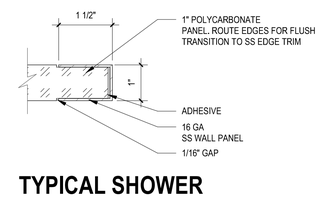
TYPICAL SHOWER PANEL SILL DETAIL
8 A-4507 — 6" = 1'-0"



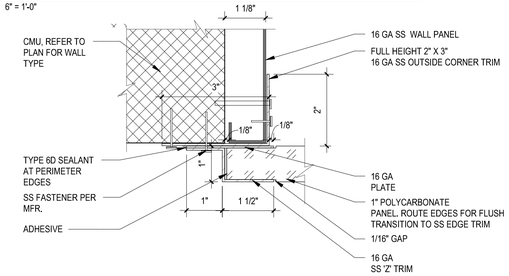
TYPICAL SHOWER BASE DETAIL
9 A-4507 — 3" = 1'-0"



TYPICAL SHOWER BASE EDGE DETAIL
10 A-4507 — 3" = 1'-0"



TYPICAL SHOWER PANEL EDGE DETAIL
11 A-4507 — 6" = 1'-0"



TYPICAL SHOWER PANEL JAMB DETAIL
12 A-4507 — 6" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTERED ARCHITECT BRUCE T. BIKUSH NO. 26905 STATE OF NEW YORK

REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

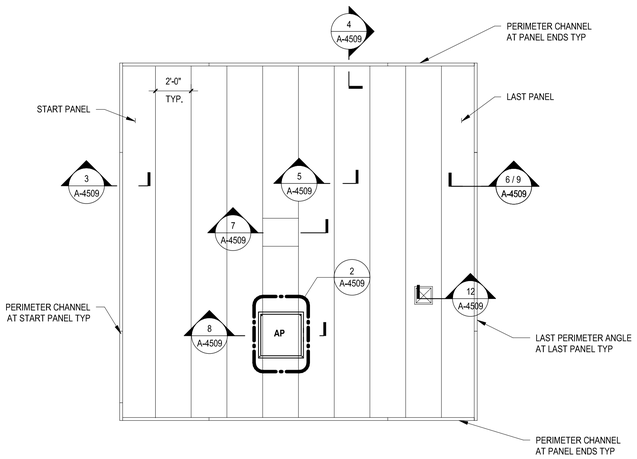
PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF
FIELD CHECK:	
APPROVED:	MC

SHEET TITLE:
SHOWER DETAILS

DRAWING NUMBER:
A-4507

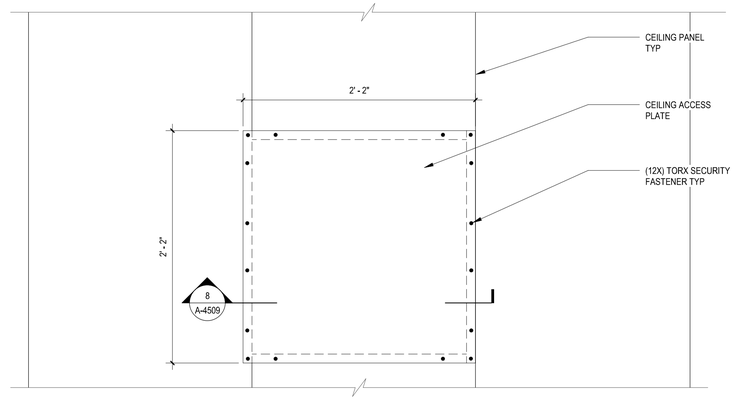
SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:11:25 PM
36x24 PLOT SHEET



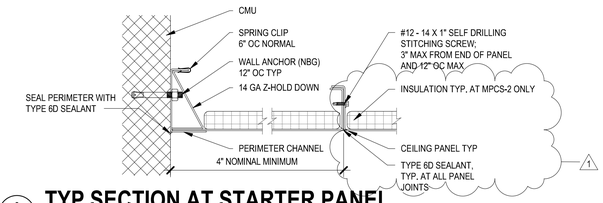
1 A-4508 GENERIC REFLECTED CEILING PLAN FOR CEILING TYPE MPCS-2

NTS



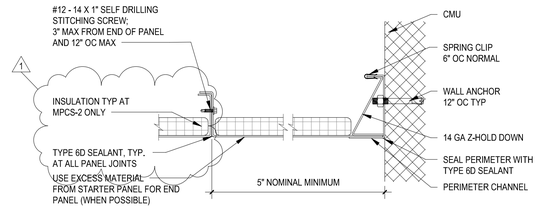
2 A-4509 TYP RCP AT ACCESS PANEL

1 1/2" = 1'-0"



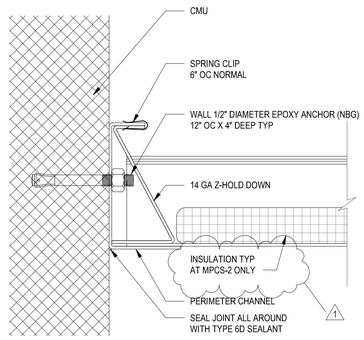
3 A-4509 TYP SECTION AT STARTER PANEL

3" = 1'-0"



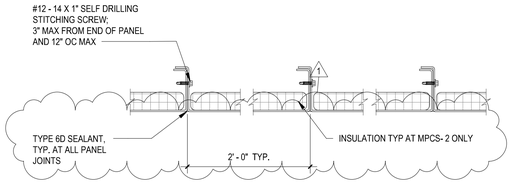
6 A-4508 TYP SECTION AT END PERIMETER

3" = 1'-0"



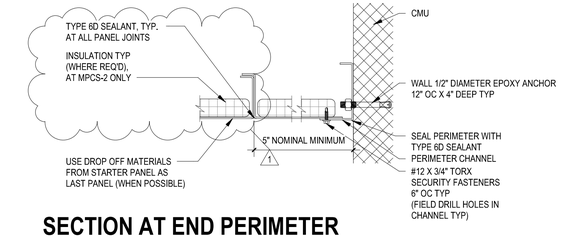
4 A-4509 TYP SECTION AT END OF PANEL

6" = 1'-0"



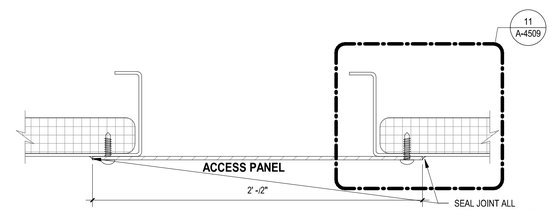
5 A-4509 TYP SECTION THRU PANEL

3" = 1'-0"



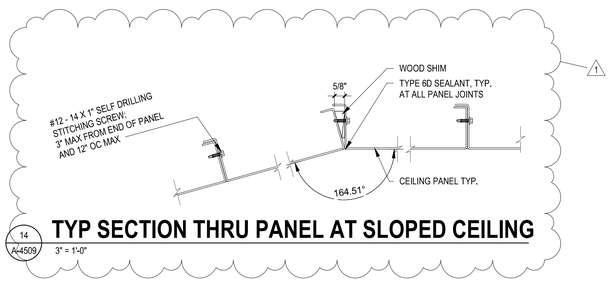
9 A-4508 SECTION AT END PERIMETER WHERE IN-ACCESSIBLE FOR Z-HOLD PLACEMENT

3" = 1'-0"



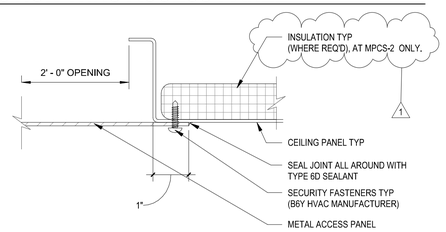
8 A-4509 TYP SECTION THRU ACCESS PANEL

6" = 1'-0"



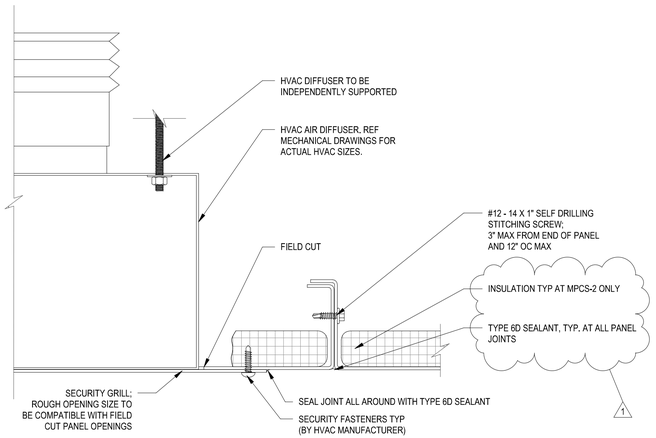
14 A-4509 TYP SECTION THRU PANEL AT SLOPED CEILING

3" = 1'-0"



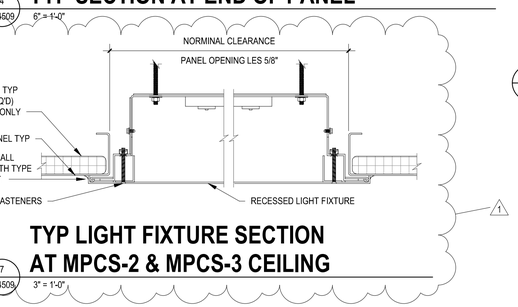
11 A-4509 ENLARGED DETAIL AT ACCESS PANEL

6" = 1'-0"



12 A-4509 TYP SECTION AT HVAC

6" = 1'-0"

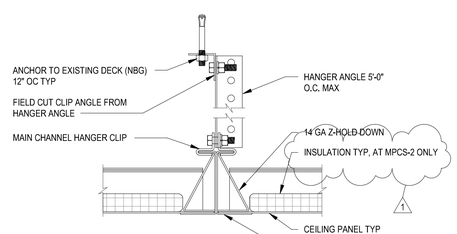


10 A-4509 TYP LIGHT FIXTURE SECTION AT MPCS-1 CEILING

3" = 1'-0"

7 A-4509 TYP LIGHT FIXTURE SECTION AT MPCS-2 & MPCS-3 CEILING

3" = 1'-0"



13 A-4509 MAIN CHANNEL SECTION

3" = 1'-0"

Autodesk Docs://45682 Industry 72_73_74/OGS BedBath Upgrades_Bldg-74_V22.rvt
7/10/2025 5:11:26 PM
36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 018342

CHA

FoitAlbert ASSOCIATES
Architecture. Engineering. Surveying. Environmental

CERTIFICATE OF AUTHORIZATION #: 0018046

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REGISTRATION EXPIRES: 04/30/2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDING 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

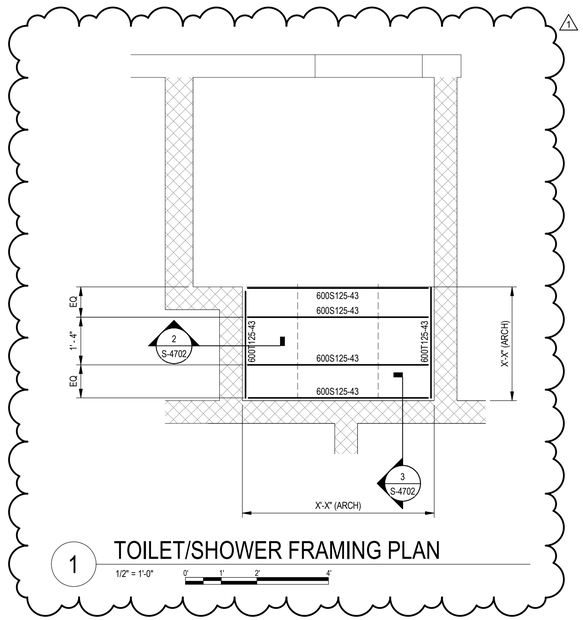
MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM #2

PROJECT NUMBER:	45682-C
DESIGNED BY:	BB
DRAWN BY:	JB, AF
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
CEILING DETAILS

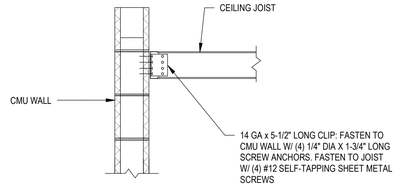
DRAWING NUMBER:
A-4509

SHEET: OF



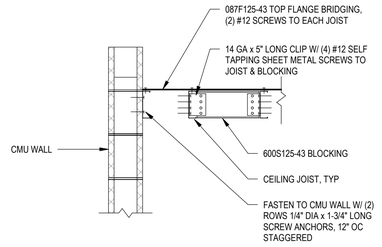
1 TOILET/SHOWER FRAMING PLAN

1/2" = 1'-0"



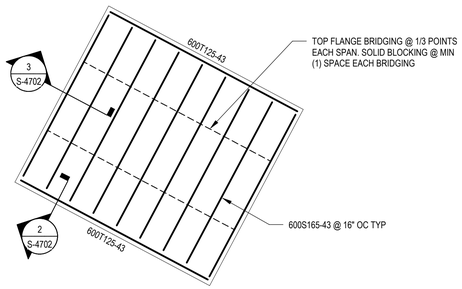
2 SECTION - CEILING FRAMING

3/4" = 1'-0"



3 SECTION - CEILING FRAMING

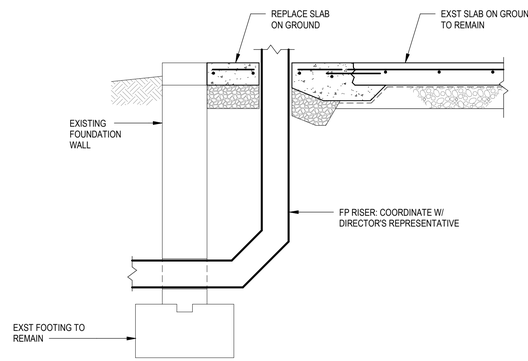
3/4" = 1'-0"



NOTE:
REFER TO ROOM PLAN ON ARCHITECTURAL DRAWING A-3106.

4 CEILING FRAMING PLAN - BUILDING 74 ADA BEDROOM A-10

1/4" = 1'-0"



5 EXISTING FOUNDATION AT FP RISER

3/4" = 1'-0"

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7/9/2025 9:59:09 AM
36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA
www.chasolutions.com

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STATE OF NEW YORK
JOSEPH WADE WARD
LICENSED PROFESSIONAL ENGINEER
No. 084813
REGISTRATION EXPIRES: 8/31/2027

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

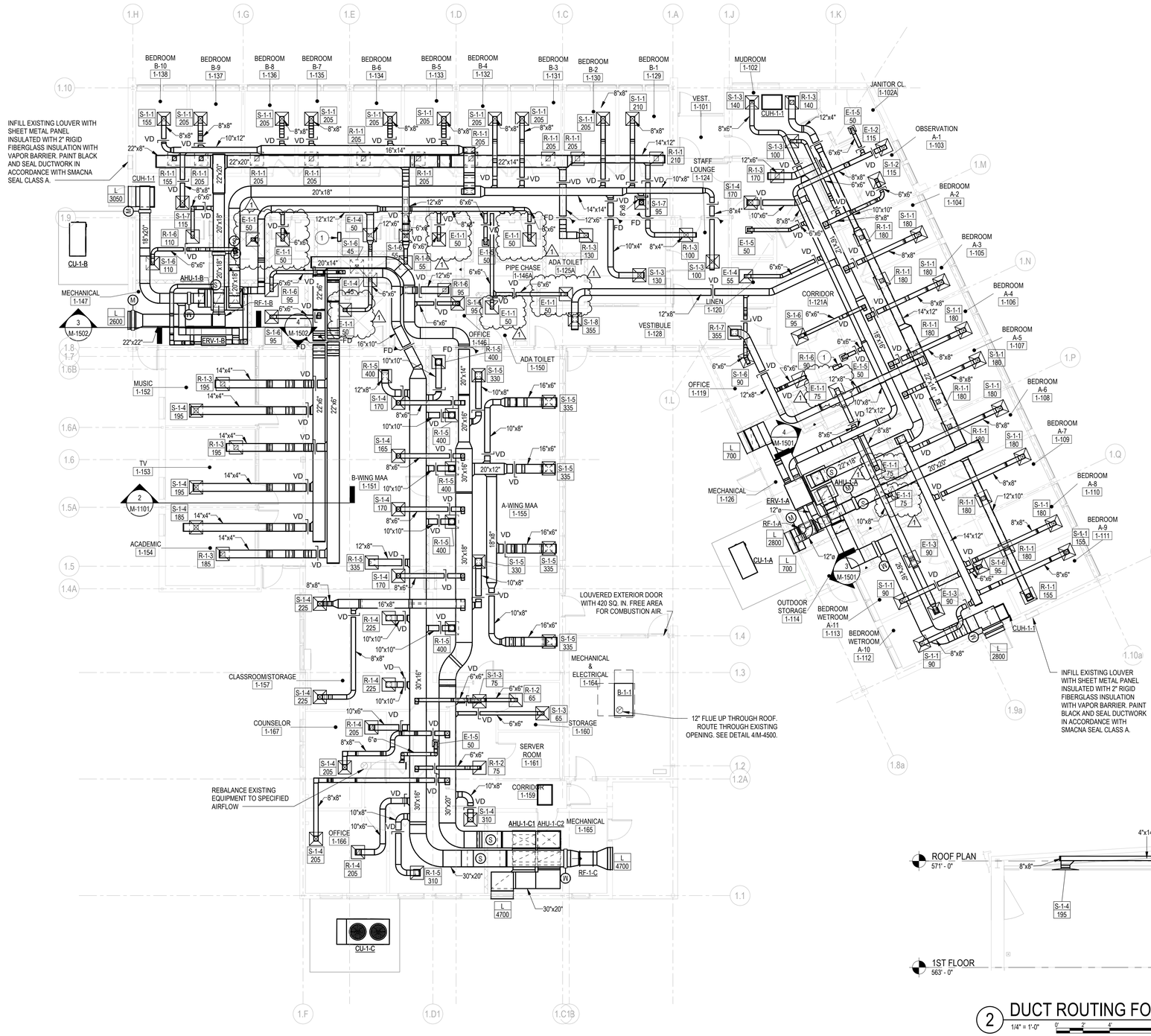
MARK	DATE	DESCRIPTION
1	7/11/2025	ADDENDUM 2
	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-C
DESIGNED BY:	JWW
DRAWN BY:	KAM
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
TYPICAL CEILING FRAMING PLAN AND SECTIONS

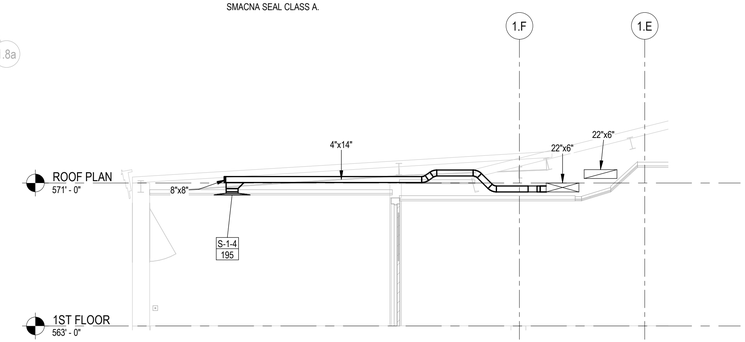
DRAWING NUMBER:
S-4702

SHEET: OF



1 BUILDING 72 1ST FLOOR DUCTWORK PLAN

1/8" = 1'-0"



2 DUCT ROUTING FOR SUPPORT OFFICES

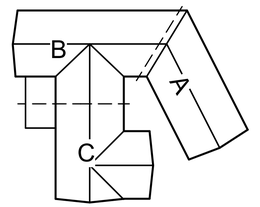
1/4" = 1'-0"

GENERAL NOTES

1. SEE M-1501 AND M-1502 FOR MECHANICAL ROOM ENLARGED VIEWS.

CODED NOTES

1. DRYER BOX DB350. ROUTE 4" VENT CONNECTION TO EXISTING FLUE.



KEY PLAN

NOT TO SCALE

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STATE OF NEW YORK · JEREMY A. LAZARUS · 089429 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2025

TRUE NORTH
PROJECT NORTH

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

CONTRACT:

HVAC

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER: 45682-H

DESIGNED BY: JH

DRAWN BY: KH

FIELD CHECK:

APPROVED:

SHEET TITLE:

BUILDING 72 MECHANICAL DUCTWORK PLANS

DRAWING NUMBER:

M-1101

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-MECH22-BLDG 72-CENTRAL.rvt
7/8/2025 3:37:48 PM
36x24 PLOT SHEET

REGISTER, GRILLE, AND DIFFUSER

TAG	LOCATION	SERVICE	TYPE	MAX CFM	FACE SIZE	NECK SIZE	PATTERN	APD (IN WG)	MAX NC	"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
E-1-1	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	90	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	2
E-1-2	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	90	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
E-1-3	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	195	24"X24"	10"x10"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
E-1-4	SEE PLANS	EXHAUST	MAXIMUM SECURITY RISK RESISTANT GRILLE	100	24"X24"	6"x6"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRP	
E-1-5	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	100	12"X12"	6"x6"	PATTERN	0.02	20	PRICE INDUSTRIES / MSRRP	
R-1-1	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	195	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	1
R-1-2	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	90	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-1-3	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	195	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-1-4	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	300	24"X24"	10"x10"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-1-5	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	450	24"X24"	12"x12"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-1-6	SEE PLANS	RETURN	MAXIMUM SECURITY RISK RESISTANT GRILLE	115	24"X24"	6"x6"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRP	1
R-1-7	SEE PLANS	RETURN	MAXIMUM SECURITY RISK RESISTANT GRILLE	325	24"X24"	12"x12"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRP	1
S-1-1	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	222	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
S-1-2	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	150	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
S-1-3	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	150	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	
S-1-4	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	222	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	
S-1-5	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	375	24"X24"	12"x12"	PATTERN	0.01	20	GORDON / LOCKDOWN PLD-MS	
S-1-6	SEE PLANS	SUPPLY	MAXIMUM SECURITY RISK RESISTANT GRILLE	100	24"X24"	6"x6"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRCD	
S-1-7	SEE PLANS	SUPPLY	MAXIMUM SECURITY RISK RESISTANT GRILLE	156	24"X24"	8"x8"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRCD	
S-1-8	SEE PLANS	SUPPLY	MAXIMUM SECURITY RISK RESISTANT GRILLE	325	24"X24"	12"x12"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRCD	

REMARKS
1. PROVIDE WITH VOLUME DAMPER ADJUSTABLE FROM FACE OF GRILLE/DIFFUSER.
2. PROVIDE STAINLESS STEEL WITH BRUSHED #4 FINISH.

AMBIENT DESIGN CRITERIA

SUMMER		WINTER	SITE LOCATION	SITE ELEVATION (FT)
DB (°F)	WB (°F)	DB (°F)		
88.5	73.1	1.6	ROCHESTER, NY	543

AIR SEPARATOR

TAG	LOCATION	SERVICE	FLUID TYPE	GPM	CONNECTION SIZES	MANUFACTURER & MODEL #	REMARKS
AS-1-1	MECHANICAL 1-164	HEATING HOT WATER	WATER	107	2 1/2"	BELL & GOSSETT / CRS-2-1/2N-HV	

EXPANSION TANK (BLADDER TYPE)

TAG	LOCATION	SERVICE	TYPE	FLUID TYPE	ACCEPTANCE VOLUME (GAL)	SIZE VOLUME	FILL PRESS (PSIG)	RELIEF VALVE SETTING (PSIG)	MANUFACTURER & MODEL #	REMARKS
ET-1-1	1-164 MECHANICAL & ELECTRICAL	HEATING HOT WATER	VERTICAL	WATER	23.0	23.0 gal	60.00	100.00	BELL & GOSSETT / B85	

REMARKS:
1. PROVIDE EXPANSION TANK WITH ASME RATING.

RELIEF FAN

TAG	LOCATION	SERVICE	TYPE	CFM	TSP (IN-WG)	BHP	ELECTRICAL				"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
							RPM	HP	VOLT	PH		
RF-1-A	114 OUTDOOR STORAGE	AHU-1-A	DIRECT DRIVE INLINE	2500	0.50	0.45	1140	0.75	230	1	GREENHECK / SQ-160-VG	1, 2
RF-1-B	147 MECHANICAL ROOM	AHU-1-B	DIRECT DRIVE INLINE	2480	0.50	0.65	1500	0.75	230	1	GREENHECK / SQ-140-VG	1, 2
RF-1-C	165 MECHANICAL ROOM	AHU-1-C1/AHU-1-C2	DIRECT DRIVE INLINE	4700	0.75	1.11	1725	2.00	230	1	GREENHECK / SQ-16-07-0700-VG	1, 2

REMARKS
1. PROVIDE INTEGRAL DISCONNECT SWITCH AND SPEED CONTROLLER WITH FAN.
2. PROVIDE WITH SPRING ISOLATION HANGERS.

FIN TUBE RADIATION

TAG	LOCATION	TYPE	GPM	FLUID TYPE	AVERAGE WT (°F)	BTUH/FT	"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
FT-1-A	SEE PLANS	SLOPED FULL PERFORATED SECURITY	4.5	WATER	170.0	760	STERLING / GUARDIAN GSBP	1, 2
FT-1-B	SEE PLANS	SLOPED FULL PERFORATED SECURITY	4.5	WATER	170.0	1370	STERLING / GUARDIAN GSBP	1, 2

REMARKS
1. PROVIDE WALL TO WALL PERFORATED ANTI-LIGATURE SECURITY ENCLOSURE.
2. PROVIDE 18 INCH TALL ENCLOSURE.

AIR COOLED CONDENSING UNIT

TAG	LOCATION	SERVICE	EER	# COMP	# COND FANS	# CIRCUITS	REFRIG TYPE	CAPACITY (TONS)	AMBIENT AIR TEMP	ELECTRICAL			"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
										MOCP	MCA	VOLT		
CU-1-A	MECHANICAL ROOM 126	SEE PLANS	13.90	2	2	2	R-410A	8	89 °F	70	51	208	AAON / CFA-009-B-B-9-DA00L	1, 2
CU-1-B	MECHANICAL ROOM 147	SEE PLANS	13.80	2	2	2	R-410A	8	89 °F	70	51	208	AAON / CFA-009-B-B-9-DA00L	1, 2
CU-1-C	MECHANICAL ROOM 165	SEE PLANS	12.00	2	2	2	R-410A	11	91 °F	80	61	208	AAON / CFA-011-B-A-9-DJ00L	1, 2

REMARKS
1. PROVIDE INTEGRAL DISCONNECT SWITCH.
2. PROVIDE MANUFACTURER'S CONTROLLER WITH BMS INTEGRATION CARD.

GAS FIRED BOILER

TAG	LOCATION	SERVICE	TYPE	INPUT (MBH)	OUTPUT (MBH)	GPM	GAS PRESSURE (IN WG)		FLUID TYPE	EWT (°F)	LWT (°F)	ELECTRICAL		SYSTEM PRESSURE(PSI)	"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
							MIN	MAX				VOLT	PH			
B-1-1	3-164 MECHANICAL & ELECTRICAL	HEATING HOT WATER	WATER TUBE	1,260	1,071	107	4.50	14.00	WATER	160.0	180.0	120	1	60.00	Lochinvar / CHN1262	1

REMARKS
1. PROVIDE MANUFACTURER'S VERTICAL VENT KIT AND CAP. TERMINATE VENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PEAKED ROOFS.

PUMP

TAG	LOCATION	SERVICE	FLUID	GPM	FT HD	EFF	ELECTRICAL					"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
							HP	VOLT	PH	HZ	RPM		
P-1-1	3-164 MECHANICAL & ELECTRICAL	B-WING TERMINAL HEAT	WATER	26	24.00 ftH2O	47.80%	0.50	230	1	60	3600	BELL & GOSSET / E-90 ECM	
P-1-2	3-164 MECHANICAL & ELECTRICAL	A-WING TERMINAL HEAT	WATER	50	65.00 ftH2O	53.70%	2.00	230	1	60	3600	BELL & GOSSET / E-90E	
P-1-3	3-164 MECHANICAL & ELECTRICAL	AHU HEATING COILS	WATER	5	7.50 ftH2O	36.40%	0.03	115	1	60	1921	BELL & GOSSETT / ECOCIRC 19-16	
P-1-4	3-164 MECHANICAL & ELECTRICAL	C-WING TERMINAL HEAT	WATER	44	20.00 ftH2O	48.90%	1.00	230	1	60	3600	BELL & GOSSET / E-90 ECM	

HOT WATER CABINET HEATER

TAG	LOCATION	TYPE	MBH	CFM	GPM	EWT (°F)	LWT (°F)	WPD (FT)	FAN MOTOR DATA				"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
									RPM	HP	VOLT	PH		
CUH-1-1	SEE PLANS	CEILING MOUNTED	22.8	335	2.28	200.0	180.0	0.36	1050	0.07	115	1	STERLING / C (1190 or 1200) 1 row	

AIR HANDLING UNIT - HYDRONIC HEAT/DX COOL

TAG	LOCATION	SERVICE	TYPE	CFM	OA CFM	SUPPLY FAN MOTOR DATA							DX COIL							HEATING COIL								"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
						ESP (IN-WG)	FAN TYPE	BHP	RPM	HP	VOLT	PH	EAT DB/WB (°F)	LAT DB/WB (°F)	TOTAL MBH	SENSIBLE MBH	APD (IN-WG)	REF TYPE	MAX FACE VELOCITY (FPM)	EAT (°F)	LAT (°F)	MBH	APD (IN-WG)	GPM	FLUID TYPE	EWT (°F)	LWT (°F)	WPD (FT)	MIN ROWS		
AHU-1-A	MECHANICAL ROOM 126	A-WING	TOP RETURN TOP DISCHARGE	2800	300	1.75	PLENUM	2.3	2082	3.0	208	1	76.5/64.1	55.8/53.0	87.6	64.3	0.44	R-410A	390	49.3	93.3	138.4	0.07	12	WATER	180.0	156.3	4.00	1	AAON / V3-CRB-9-0-142D-11Q	1, 2, 4
AHU-1-B	MECHANICAL ROOM 147	B-WING	TOP RETURN TOP DISCHARGE	2600	320	1.75	PLENUM	2.1	1995	3.0	208	1	76.7/64.2	54.1/52.4	87.1	62.4	0.39	R-410A	370	61.5	103.5	119.7	0.06	12	WATER	180.0	159.5	4.00	1	AAON / V3-CRB-9-0-142D-11Q	1, 2, 4
AHU-1-C1	MECHANICAL ROOM 165	C-WING	TOP RETURN TOP DISCHARGE	2350	630	2.00	PLENUM	1.8	1885	3.0	208	1	79.3/64.9	55.2/54.9	70.0	61.5	0.32	R-410A	330	51.2	93.4	110.9	0.05	10	WATER	180.0	157.2	0.70	1	AAON / V3-CRB-9-0-161C-11H	1, 2, 3, 4
AHU-1-C2	MECHANICAL ROOM 165	C-WING	TOP RETURN TOP DISCHARGE	2350	630	2.00	PLENUM	1.8	1885	3.0	208	1	79.3/64.9	55.2/54.9	70.0	61.5	0.32	R-410A	330	51.2	93.4	110.9	0.05	10	WATER	180.0	157.2	0.70	1	AAON / V3-CRB-9-0-161C-11H	1, 2, 3, 4

REMARKS
1. PROVIDE INTEGRAL DISCONNECT SWITCH, MERV-14 FILTERS, VIBRATION ISOLATION SUPPORTS, AND MANUFACTURER'S CONTROLLER WITH BMS INTEGRATION CARD.
2. PROVIDE UNIT WITH HOT-GAS REHEAT CAPABILITY.
3. UNIT SECTIONS TO FIT THROUGH STANDARD 3' DOOR.

ENERGY RECOVERY VENTILATOR

TAG	LOCATION	SERVICE	TYPE	CFM	OA CFM	SUPPLY FAN MOTOR DATA							RETURN OR EXHAUST FAN MOTOR DATA							ENERGY RECOVERY												ELECTRICAL		"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
																				WINTER						SUMMER										
						ESP (IN WG)	FAN TYPE	WATTS	HP	RPM	VOLT	PH	ESP (IN WG)	FAN TYPE	WATTS	HP	RPM	VOLT	PH	EDB	EWB	LDB	LWB	TOTAL EFF %	TOTAL BTU RECOVERED	EDB	EWB	LDB	LWB	TOTAL EFF %	TOTAL BTU RECOVERED	MCA	MOCP		
ERV-1-A	3-162 MECHANICAL	A-WING	STATIC PLATE	685	704	1.11	DIRECT DRIVE	503	0.75	1725	230	1	1.05	DIRECT DRIVE	514	0.75	1725	208	1	2.9	1.7	50.8	39.7	69.8	42443.0	88.7	73.2	78.9	67.8	53.5	14461.0	10.1	15	INTEREK / HE-1XJINH-S15HH--DANTF--L	1, 2
ERV-1-B	3-147 MECHANICAL	B-WING	STATIC PLATE	445	453	0.66	DIRECT DRIVE	536	0.60	1725	230	1	0.63	DIRECT DRIVE	536	0.60	1725	208	1	2.9	1.7	51.0	39.8	70.1	27696.0	88.7	73.2	78.9	67.7	53.9	9476.0	4.9	15	INTEREK / EV450JIN--S15----ANTF--L	1, 2

REMARKS
1. PERFORMANCE BASED ON EXHAUST ROOM AIR TEMPERATURE: WINTER ROOM TEMP 70°F DB/50°F WB & SUMMER ROOM TEMP 75°F/63°F WB.
2. PROVIDE MOTORIZED ISOLATION DAMPERS ON OUTSIDE AIR INTAKE AND EXHAUST AIR DISCHARGE.

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

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STATE OF NEW YORK · JEREMY A. LAZARA · 089429 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2025

CONTRACT:
HVAC

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER: 45682-H

DESIGNED BY: JH

DRAWN BY: KH

FIELD CHECK:

APPROVED:

SHEET TITLE:
BUILDING 72 MECHANICAL SCHEDULES

DRAWING NUMBER:
M-1600

SHEET: OF

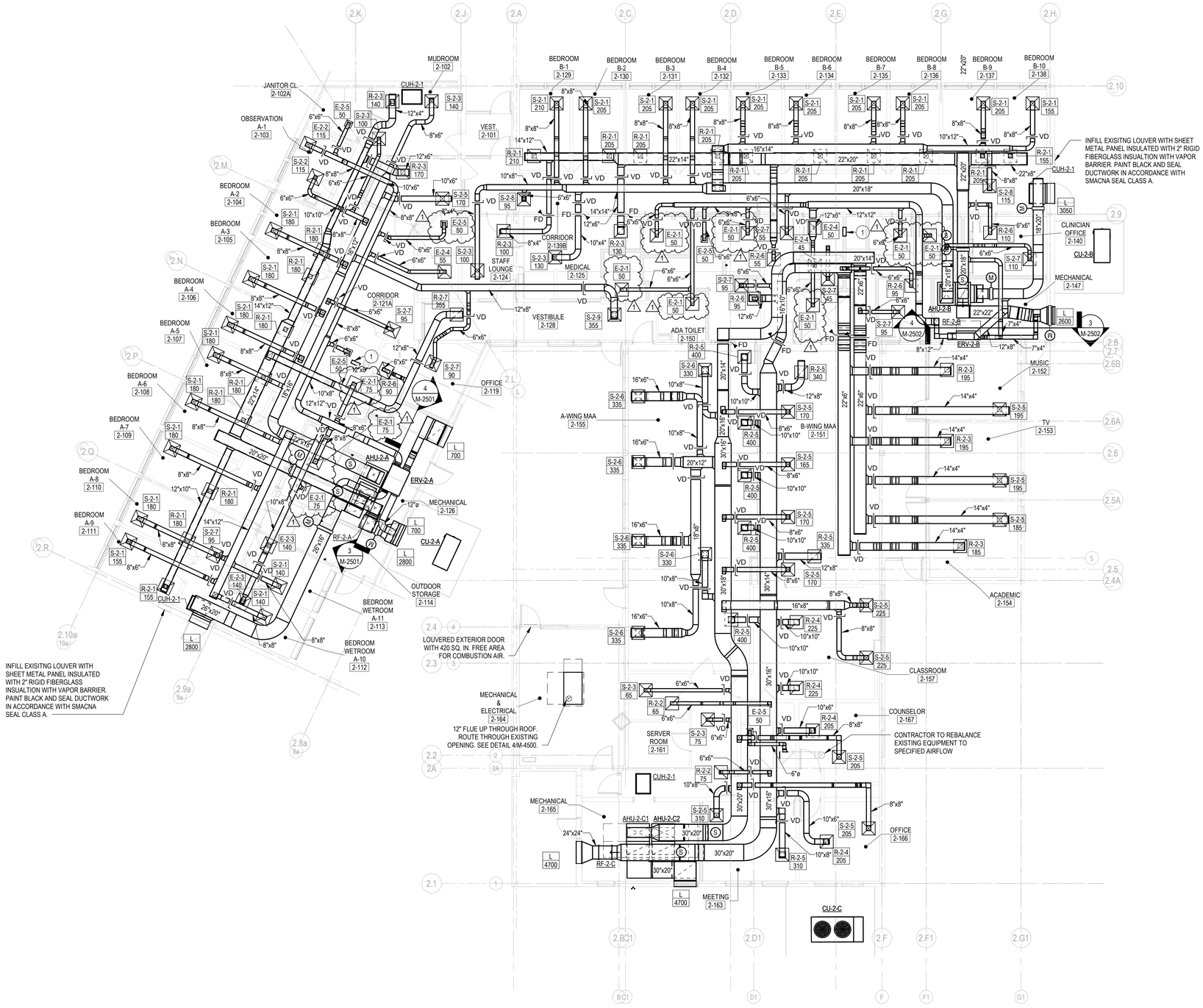
Autodesk Docs://45682 Industry 72_73_74/080679-MECH22-BLDG 72-CENTRAL.rvt
7/9/2025 3:37:53 PM
36x24 PLOT SHEET

GENERAL NOTES

1. SEE M-2501 AND M-2502 FOR MECHANICAL ROOM ENLARGED VIEWS.

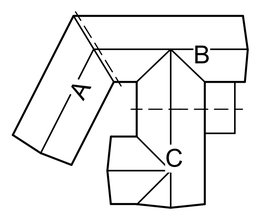
(#) CODED NOTES

1. DRYER BOX DB350. ROUTE 4" VENT CONNECTION TO EXISTING FLUE.



1 BUILDING 73 1ST FLOOR DUCTWORK PLAN

1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

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STATE OF NEW YORK · JEREMY A. LAZZARA · 089423 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2025

PROJECT NORTH

TRUE NORTH

CONTRACT:

HVAC

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-H
DESIGNED BY:	JH
DRAWN BY:	KH
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

BUILDING 73 MECHANICAL DUCTWORK PLANS

DRAWING NUMBER:

M-2101

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-MECH22-BLDG 73-CENTRAL.rvt
7/8/2025 9:34:48 AM
36x24 PLOT SHEET

AMBIENT DESIGN CRITERIA

SUMMER		WINTER	SITE LOCATION	SITE ELEVATION (FT)
DB (°F)	WB (°F)	WIN DB (°F)		
88.5	73.1	1.6	ROCHESTER, NY	543

REGISTER, GRILLE, AND DIFFUSER

TAG	LOCATION	SERVICE	TYPE	MAX CFM	FACE SIZE	NECK SIZE	PATTERN	APD (IN-WG)	MAX NC	"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
E-2-1	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	90	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	2
E-2-2	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	90	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
E-2-3	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	195	24"X24"	10"x10"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
E-2-4	SEE PLANS	EXHAUST	MAXIMUM SECURITY RISK RESISTANT GRILLE	100	24"X24"	6"x6"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRP	
E-2-5	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	100	12"X12"	6"x6"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
R-2-1	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	195	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	1
R-2-2	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	90	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-2-3	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	195	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-2-4	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	300	24"X24"	10"x10"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-2-5	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	450	24"X24"	12"x12"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-2-6	SEE PLANS	RETURN	MAXIMUM SECURITY RISK RESISTANT GRILLE	115	24"X24"	6"x6"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRP	1
R-2-7	SEE PLANS	RETURN	MAXIMUM SECURITY RISK RESISTANT GRILLE	325	24"X24"	12"x12"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRP	1
S-2-1	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	222	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
S-2-2	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	150	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
S-2-3	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	150	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	
S-2-5	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	222	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	
S-2-6	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	375	24"X24"	12"x12"	PATTERN	0.01	20	GORDON / LOCKDOWN PLD-MS	
S-2-7	SEE PLANS	SUPPLY	MAXIMUM SECURITY RISK RESISTANT GRILLE	100	24"X24"	6"x6"	PATTERN	<varies>	20	PRICE INDUSTRIES / MSRRCD	
S-2-8	SEE PLANS	SUPPLY	MAXIMUM SECURITY RISK RESISTANT GRILLE	156	24"X24"	8"x8"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRCD	
S-2-9	SEE PLANS	SUPPLY	MAXIMUM SECURITY RISK RESISTANT GRILLE	325	24"X24"	12"x12"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRCD	

REMARKS
1. PROVIDE WITH VOLUME DAMPER ADJUSTABLE FROM FACE OF GRILLE/DIFFUSER.
2. PROVIDE STAINLESS STEEL WITH BRUSHED #4 FINISH.

AIR SEPARATOR

TAG	LOCATION	SERVICE	FLUID TYPE	GPM	CONNECTION SIZES	MANUFACTURER & MODEL #	REMARKS
AS-2-1	MECHANICAL 2-164	HEATING HOT WATER	WATER	107	2 1/2"	BELL & GOSSETT / CRS-2-1/2N-HV	

EXPANSION TANK (BLADDER TYPE)

TAG	LOCATION	SERVICE	TYPE	FLUID TYPE	ACCEPTANCE VOLUME (GAL)	SIZE VOLUME	FILL PRESS (PSIG)	RELIEF VALVE SETTING (PSIG)	MANUFACTURER & MODEL #	REMARKS
ET-2-1	2-164 MECHANICAL & ELECTRICAL	HEATING HOT WATER	VERTICAL	WATER	23.0	23.0 gal	60.00	100.00	BELL & GOSSETT / B85	

REMARKS:
1. PROVIDE EXPANSION TANK WITH ASME RATING.

RELIEF FAN

Type Mark	LOCATION	SERVICE	TYPE	CFM	TSP (IN-WG)	BHP	ELECTRICAL				"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
							RPM	HP	VOLT	PH		
RF-2-A	114 OUTDOOR STORAGE	AHU-2-A	DIRECT DRIVE INLINE	2500	0.50	0.45	1140	0.75	230	1	GREENHECK / SQ-160-VG	1, 2
RF-2-B	147 MECHANICAL ROOM	AHU-2-B	DIRECT DRIVE INLINE	2480	0.50	0.65	1500	0.75	230	1	GREENHECK / SQ-140-VG	1, 2
RF-2-C	165 MECHANICAL ROOM	AHU-2-C1/AHU-2-C2	DIRECT DRIVE INLINE	4700	0.75	1.11	1725	2.00	230	1	GREENHECK / SQ-16-07-0700-VG	1, 2

REMARKS
1. PROVIDE INTEGRAL DISCONNECT SWITCH AND SPEED CONTROLLER WITH FAN.
2. PROVIDE WITH SPRING ISOLATION HANGERS.

FIN TUBE RADIATION

Type Mark	LOCATION	TYPE	GPM	FLUID TYPE	AVERAGE WT (°F)	BTUH/FT	"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
FT-2-A	SEE PLANS	SLOPED FULL PERFORATED SECURITY	4.5	WATER	170.0	760	STERLING / GUARDIAN GSBP	1, 2

REMARKS
1. PROVIDE WALL TO WALL PERFORATED ANTI-LIGATURE SECURITY ENCLOSURE.
2. PROVIDE 18 INCH TALL ENCLOSURE.

AIR COOLED CONDENSING UNIT

TAG	LOCATION	SERVICE	TYPE	EER	# COMP	# COND FANS	# CIRCUITS	REFRIG TYPE	CAPACITY (TONS)	AMBIENT AIR TEMP	ELECTRICAL			"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
											MOCP	MCA	VOLT		
CU-2-A	MECHANICAL ROOM 126	SEE PLANS	VARIABLE CAPACITY SCROLL	13.90	2	2	2	R-410A	8	89 °F	70	51	208	AAON / CFA-009-B-B-9-DA00L	1, 2
CU-2-B	MECHANICAL ROOM 147	SEE PLANS	VARIABLE CAPACITY SCROLL	13.80	2	2	2	R-410A	8	89 °F	70	51	208	AAON / CFA-009-B-B-9-DA00L	1, 2
CU-2-C	MECHANICAL ROOM 165	SEE PLANS	VARIABLE CAPACITY SCROLL	12.00	2	2	2	R-410A	11	91 °F	80	61	208	AAON / CFA-011-B-A-9-DJ00L	1, 2

REMARKS
1. PROVIDE INTEGRAL DISCONNECT SWITCH.
2. PROVIDE MANUFACTURER'S CONTROLLER WITH BMS INTEGRATION CARD.

GAS FIRED BOILER

TAG	LOCATION	SERVICE	TYPE	INPUT (MBH)	OUTPUT (MBH)	GPM	GAS PRESSURE (IN WG)		FLUID TYPE	EWT (°F)	LWT (°F)	ELECTRICAL		SYSTEM PRESSURE (PSI)	"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
							MIN	MAX				VOLT	PH			
B-2-1	3-164 MECHANICAL & ELECTRICAL	HEATING HOT WATER	WATER TUBE	1,260	1,071	107	4.50	14.00	WATER	160.0	180.0	120	1	60.00	Lochinvar / CHN1262	1

REMARKS
1. PROVIDE MANUFACTURER'S VERTICAL VENT KIT AND CAP. TERMINATE VENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PEAKED ROOFS.

PUMP

TAG	LOCATION	SERVICE	FLUID	GPM	FT HD	EFF	ELECTRICAL					"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
							HP	VOLT	PH	HZ	RPM		
P-2-1	3-164 MECHANICAL & ELECTRICAL	B-WING TERMINAL HEAT	WATER	26	24.00 ftH2O	47.80%	0.50	230	1	60	3600	BELL & GOSSET / E-90 ECM	
P-2-2	3-164 MECHANICAL & ELECTRICAL	A-WING TERMINAL HEAT	WATER	50	65.00 ftH2O	53.70%	2.00	230	1	60	3600	BELL & GOSSET / E-90E	
P-2-3	3-164 MECHANICAL & ELECTRICAL	AHU HEATING COILS	WATER	5	7.50 ftH2O	36.40%	0.03	115	1	60	1921	BELL & GOSSETT / ECOCIRC 19-16	
P-2-4	3-164 MECHANICAL & ELECTRICAL	C-WING TERMINAL HEAT	WATER	44	20.00 ftH2O	48.90%	1.00	230	1	60	3600	BELL & GOSSET / E-90 ECM	

HOT WATER CABINET HEATER

TAG	LOCATION	TYPE	MBH	CFM	GPM	EWT (°F)	LWT (°F)	WPD (FT)	FAN MOTOR DATA				"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
									RPM	HP	VOLT	PH		
CUH-2-1	SEE PLANS	CEILING MOUNTED	22.8	335	2.28	200.0	180.0	0.36	1050	0.07	115	1	STERLING / C (1190 or 1200) 1 row	

AIR HANDLING UNIT - HYDRONIC HEAT/DX COOL

TAG	LOCATION	SERVICE	TYPE	CFM	OA CFM	SUPPLY FAN MOTOR DATA							DX COIL						HEATING COIL								"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
						ESP (IN-WG)	FAN TYPE	BHP	RPM	HP	VOLT	PH	EAT DB/WB (°F)	LAT DB/WB (°F)	TOTAL MBH	SENSIBLE MBH	APD (IN-WG)	REF TYPE	MAX FACE VELOCITY (FPM)	EAT (°F)	LAT (°F)	MBH	APD (IN-WG)	GPM	FLUID TYPE	EWT (°F)	LWT (°F)	WPD (FT)	MIN ROWS		
AHU-2-A	MECHANICAL ROOM 126	A-WING	TOP RETURN TOP DISCHARGE	2800	300	1.75	PLENUM	2.3	2082	3.0	208	1	76.5/64.1	54.8/53.0	87.6	64.3	0.44	R-410A	390	49.3	93.3	138.4	0.07	12	WATER	180.0	156.3	4.00	1	AAON / V3-CRB-9-0-142D-11Q	1, 2, 3
AHU-2-B	MECHANICAL ROOM 147	B-WING	TOP RETURN TOP DISCHARGE	2600	320	1.75	PLENUM	2.1	1995	3.0	208	1	76.7/64.2	54.1/52.4	87.1	62.4	0.39	R-410A	370	61.5	103.5	119.7	0.06	12	WATER	180.0	159.5	4.00	1	AAON / V3-CRB-9-0-142D-11Q	1, 2, 3
AHU-2-C1	MECHANICAL ROOM 165	C-WING	TOP RETURN TOP DISCHARGE	2350	630	2.00	PLENUM	1.8	1885	3.0	208	1	79.3/64.9	55.2/54.9	65.1	56.5	0.32	R-410A	330	51.2	93.4	110.9	0.05	10	WATER	180.0	157.2	0.70	1	AAON / V3-CRB-9-0-161C-11H	1, 2, 3
AHU-2-C2	MECHANICAL ROOM 165	C-WING	TOP RETURN TOP DISCHARGE	2350	630	2.00	PLENUM	1.8	1885	3.0	208	1	79.3/64.9	55.2/54.9	65.1	56.5	0.32	R-410A	330	51.2	93.4	110.9	0.05	10	WATER	180.0	157.2	0.70	1	AAON / V3-CRB-9-0-161C-11H	1, 2, 3

REMARKS
1. PROVIDE INTEGRAL DISCONNECT SWITCH, MERV-14 FILTERS, VIBRATION ISOLATION SUPPORTS, AND MANUFACTURER'S CONTROLLER WITH BMS INTEGRATION CARD.
2. PROVIDE UNIT WITH HOT-GAS REHEAT CAPABILITY.
3. UNIT SECTIONS TO FIT THROUGH STANDARD 3' DOOR.

ENERGY RECOVERY VENTILATOR

TAG	LOCATION	SERVICE	TYPE	CFM	OA CFM	SUPPLY FAN MOTOR DATA							RETURN OR EXHAUST FAN MOTOR DATA							ENERGY RECOVERY										ELECTRICAL		"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
						ESP (IN WG)	FAN TYPE	BHP	HP	RPM	VOLT	PH	ESP (IN WG)	FAN TYPE	BHP	HP	RPM	VOLT	PH	WINTER						SUMMER								
																				EDB	EWB	LDB	LWB	TOTAL EFF %	TOTAL BTU RECOVERED	EDB	EWB	LDB	LWB	TOTAL EFF %	TOTAL BTU RECOVERED	MCA	MOCP		
ERV-2-A	3-162 MECHANICAL	A-WING	STATIC PLATE	685	704	1.11	FA	0.0	0.8	1725	230	1	1.05	EA	0.0	0.8	1725	230	1	2.9	1.7	70.0	51.3	69.8	42443.0	88.7	73.2	75.0	62.5	53.5	14461.0	10.1	15	INTEREK / HE-1XJINH-S15HH--DANTF--L	1, 2
ERV-2-B	3-147 MECHANICAL	B-WING	STATIC PLATE	445	453	0.66	FA	0.0	0.6	1725	230	1	0.63	EA	0.0	0.6	1725	230	1	2.9	1.7	70.0	51.3	70.1	27696.0	88.7	73.2	75.0	62.5	53.9	9476.0	4.9	15	INTEREK / EV450JIN--S15----ANTF--L	1, 2

REMARKS
1. PERFORMANCE BASED ON EXHAUST ROOM AIR TEMPERATURE: WINTER ROOM TEMP 70°F DB/50°F WB & SUMMER ROOM TEMP 75°F/63°F WB.
2. PROVIDE MOTORIZED ISOLATION DAMPERS ON OUTSIDE AIR INTAKE AND EXHAUST AIR DISCHARGE.

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

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STATE OF NEW YORK · JEREMY A. LAZZARA · LICENSED · 092473 · REGISTERED · PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2025

CONTRACT:
HVAC

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER: 45682-H

DESIGNED BY: JH

DRAWN BY: KH

FIELD CHECK:

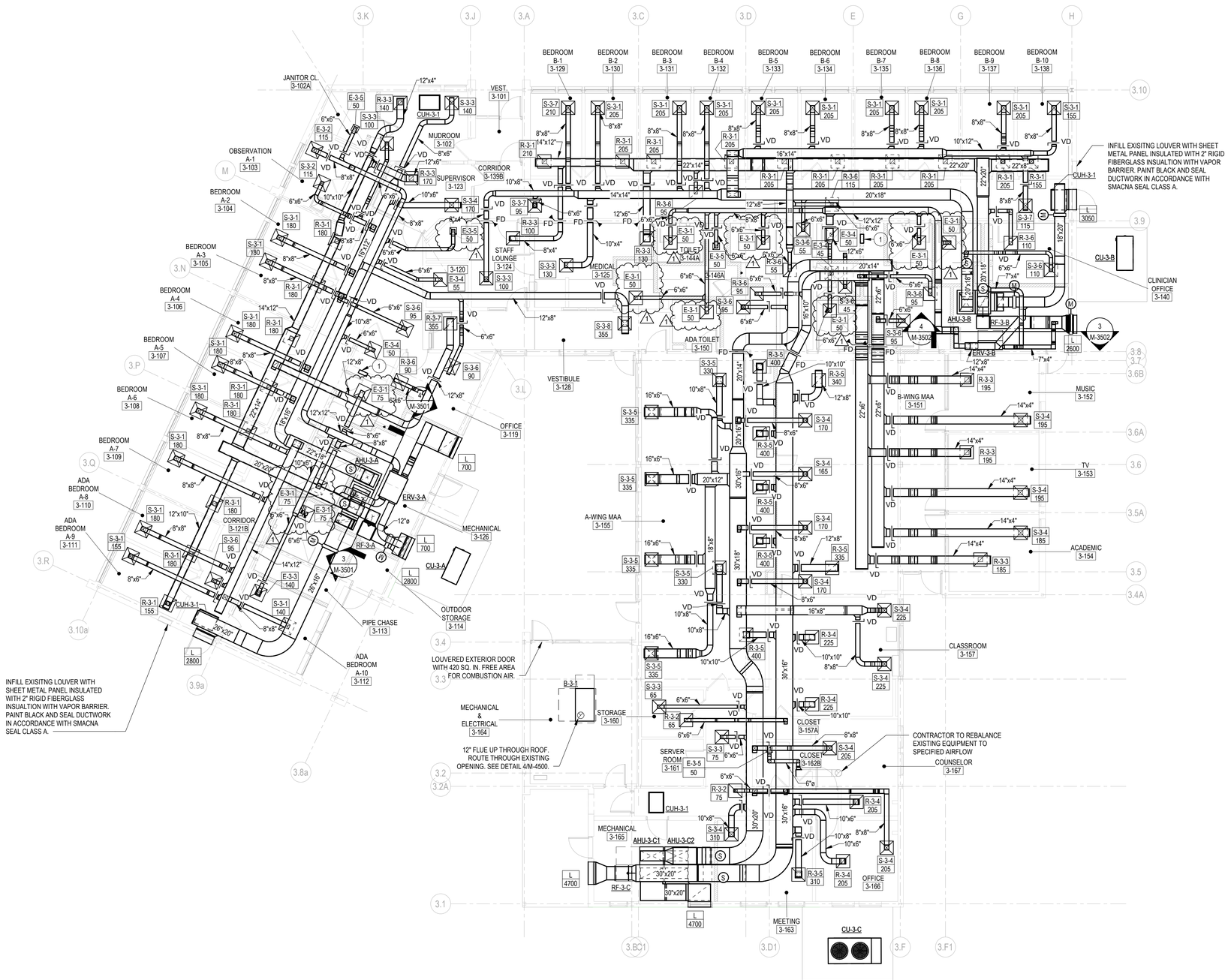
APPROVED:

SHEET TITLE:
BUILDING 73 MECHANICAL SCHEDULES

DRAWING NUMBER:
M-2600

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-MECH22-BLDG 73-CENTRAL.rvt
7/8/2025 9:34:53 AM
36x24 PLOT SHEET



GENERAL NOTES

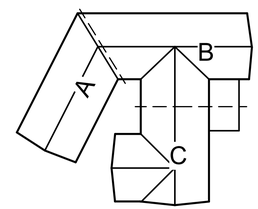
1. SEE M-3501 AND M-3502 FOR MECHANICAL ROOM ENLARGED VIEWS.

(#) CODED NOTES

1. DRYER BOX DB350. ROUTE 4" VENT CONNECTION TO EXISTING FLUE.

1 BUILDING 74 1ST FLOOR DUCTWORK PLAN
1/8" = 1'-0"

KEY PLAN
NOT TO SCALE



NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

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STATE OF NEW YORK · JEREMY A. LAZARA · LICENSED · 089423 · PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2025

PROJECT NORTH

TRUE NORTH

CONTRACT:

HVAC

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER: 45682-H

DESIGNED BY: JH

DRAWN BY: KH

FIELD CHECK:

APPROVED:

SHEET TITLE:
BUILDING 74 MECHANICAL DUCTWORK PLANS

DRAWING NUMBER:
M-3101

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-MECH22-BLDG 74-CENTRAL.rvt
7/8/2025 10:35:32 AM
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REGISTER, GRILLE, AND DIFFUSER

TAG	LOCATION	SERVICE	TYPE	MAX CFM	FACE SIZE	NECK SIZE	PATTERN	APD (IN-WG)	MAX NC	"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
E-3-1	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	90	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	2
E-3-2	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	90	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
E-3-3	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	195	24"X24"	10"x10"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
E-3-4	SEE PLANS	EXHAUST	MAXIMUM SECURITY RISK RESISTANT GRILLE	100	24"X24"	6"x6"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRP	
E-3-5	SEE PLANS	EXHAUST	DIRECTIONAL SECURITY DIFFUSER	100	12"X12"	6"x6"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRP	
R-3-1	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	195	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	1
R-3-2	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	90	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-3-3	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	195	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-3-4	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	300	24"X24"	10"x10"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-3-5	SEE PLANS	RETURN	DIRECTIONAL SECURITY DIFFUSER	450	24"X24"	12"x12"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	1
R-3-6	SEE PLANS	RETURN	MAXIMUM SECURITY RISK RESISTANT GRILLE	115	24"X24"	6"x6"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRP	1
R-3-7	SEE PLANS	RETURN	MAXIMUM SECURITY RISK RESISTANT GRILLE	325	24"X24"	12"x12"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRP	1
S-3-1	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	222	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
S-3-2	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	150	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / CEL-LINE PFD-MS	
S-3-3	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	150	24"X24"	6"x6"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	
S-3-4	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	222	24"X24"	8"x8"	PATTERN	0.02	20	GORDON / LOCKDOWN PLD-MS	
S-3-5	SEE PLANS	SUPPLY	DIRECTIONAL SECURITY DIFFUSER	375	24"X24"	12"x12"	PATTERN	0.01	20	GORDON / LOCKDOWN PLD-MS	
S-3-6	SEE PLANS	SUPPLY	MAXIMUM SECURITY RISK RESISTANT GRILLE	100	24"X24"	6"x6"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRCD	
S-3-7	SEE PLANS	SUPPLY	MAXIMUM SECURITY RISK RESISTANT GRILLE	156	24"X24"	8"x8"	PATTERN	<varies>	20	PRICE INDUSTRIES / MSRRCD	
S-3-8	SEE PLANS	SUPPLY	MAXIMUM SECURITY RISK RESISTANT GRILLE	325	24"X24"	12"x12"	PATTERN	0.01	20	PRICE INDUSTRIES / MSRRCD	

REMARKS
1. PROVIDE WITH VOLUME DAMPER ADJUSTABLE FROM FACE OF GRILLE/DIFFUSER.
2. PROVIDE STAINLESS STEEL WITH BRUSHED #4 FINISH.

AMBIENT DESIGN CRITERIA1

SUMMER		WINTER	SITE LOCATION	SITE ELEVATION (FT)
DB (°F)	WB (°F)	WIN DB (°F)		
88.5	73.1	1.6	ROCHESTER, NY	543

AIR SEPARATOR

TAG	LOCATION	SERVICE	FLUID TYPE	GPM	CONNECTION SIZES	MANUFACTURER & MODEL #	REMARKS
AS-3-1	MECHANICAL 3-164	HEATING HOT WATER	WATER	107	2 1/2"	BELL & GOSSETT / CRS-2-1/2N-HV	

EXPANSION TANK (BLADDER TYPE)

TAG	LOCATION	SERVICE	TYPE	FLUID TYPE	ACCEPTANCE VOLUME (GAL)	SIZE VOLUME	FILL PRESS (PSIG)	RELIEF VALVE SETTING (PSIG)	MANUFACTURER & MODEL #	REMARKS
ET-3-1	3-164 MECHANICAL & ELECTRICAL	HEATING HOT WATER	VERTICAL	WATER	23.0	23.0 gal	60.00	100.00	BELL & GOSSETT / B85	1

REMARKS:
1. PROVIDE EXPANSION TANK WITH ASME RATING.

RELIEF FAN

TAG	LOCATION	SERVICE	TYPE	CFM	TSP (IN-WG)	BHP	ELECTRICAL				"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
							RPM	HP	VOLT	PH		
RF-3-A	114 OUTDOOR STORAGE	AHU-3-A	DIRECT DRIVE INLINE	2500	0.50	0.45	1072	0.75	230	1	GREENHECK / SQ-160-VG	1, 2
RF-3-B	147 MECHANICAL ROOM	AHU-3-B	DIRECT DRIVE INLINE	2480	0.50	0.65	1491	0.75	230	1	GREENHECK / SQ-140-VG	1, 2
RF-3-C	165 MECHANICAL ROOM	AHU-3-C1/AHU-3-C3	DIRECT DRIVE INLINE	4700	0.75	1.11	1583	2.00	230	1	GREENHECK / SQ-16-07-0700-VG	1, 2

REMARKS
1. PROVIDE INTEGRAL DISCONNECT SWITCH AND SPEED CONTROLLER WITH FAN.
2. PROVIDE WITH SPRING ISOLATION HANGERS.

FIN TUBE RADIATION

TAG	LOCATION	TYPE	GPM	FLUID TYPE	AVERAGE WT (°F)	BTUH/FT	"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
FT-3-A	SEE PLANS	SLOPED FULL PERFORATED SECURITY	4.50	WATER	170.0	760	STERLING / GUARDIAN GSBP	1, 2
FT-3-B	SEE PLANS	SLOPED FULL PERFORATED SECURITY	4.50	WATER	170.0	1370	STERLING / GUARDIAN GSBP	1, 2

REMARKS
1. PROVIDE WALL TO WALL PERFORATED ANTI-LIGATURE SECURITY ENCLOSURE.
2. PROVIDE 18 INCH TALL ENCLOSURE.

AIR COOLED CONDENSING UNIT

TAG	LOCATION	SERVICE	TYPE	EER	# COMP	# COND FANS	# CIRCUITS	REFRIG TYPE	CAPACITY (TONS)	AMBIENT AIR TEMP	ELECTRICAL			"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
											MOCP	MCA	VOLT		
CU-3-A	MECHANICAL ROOM 126	SEE PLANS	VARIABLE CAPACITY SCROLL	13.90	2	2	2	R-410A	8	89 °F	70	51	208	AAON / CFA-009-B-B-9-DA00L	1, 2
CU-3-B	MECHANICAL ROOM 147	SEE PLANS	VARIABLE CAPACITY SCROLL	13.70	2	2	2	R-410A	8	89 °F	70	51	208	AAON / CFA-009-B-B-9-DA00L	1, 2
CU-3-C	MECHANICAL ROOM 165	SEE PLANS	VARIABLE CAPACITY SCROLL	12.00	2	2	2	R-410A	11	91 °F	80	61	208	AAON / CFA-009-B-B-9-DA00L	1, 2

REMARKS
1. PROVIDE INTEGRAL DISCONNECT SWITCH.
2. PROVIDE MANUFACTURER'S CONTROLLER WITH BMS INTEGRATION CARD.

GAS FIRED BOILER

TAG	LOCATION	SERVICE	TYPE	INPUT (MBH)	OUTPUT (MBH)	GPM	GAS PRESSURE (IN WG)		FLUID TYPE	EWT (°F)	LWT (°F)	ELECTRICAL		SYSTEM PRESSURE (PSI)	"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
							MIN	MAX				VOLT	PH			
B-3-1	3-164 MECHANICAL & ELECTRICAL	HEATING HOT WATER	WATER TUBE	1,260	1,071	107	4.50	14.00	WATER	160.0	180.0	120	1	60.00	Lochinvar / CHN1262	1

REMARKS
1. PROVIDE MANUFACTURER'S VERTICAL VENT KIT AND CAP. TERMINATE VENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PEAKED ROOFS.

PUMP

TAG	LOCATION	SERVICE	FLUID	GPM	FT HD	EFF	ELECTRICAL					"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
							HP	VOLT	PH	HZ	RPM		
P-3-1	3-164 MECHANICAL & ELECTRICAL	B-WING TERMINAL HEAT	WATER	26	24.00	47.80%	0.5	230	1	60	3600	BELL & GOSSET / E-90 ECM	
P-3-2	3-164 MECHANICAL & ELECTRICAL	A-WING TERMINAL HEAT	WATER	50	65.00	53.70%	2	230	1	60	3600	BELL & GOSSET / E-90E	
P-3-3	3-164 MECHANICAL & ELECTRICAL	AHU HEATING COILS	WATER	5	7.50	36.40%	0.03	115	1	60	1921	BELL & GOSSET / ECOCIRC 19-16	
P-3-4	3-164 MECHANICAL & ELECTRICAL	C-WING TERMINAL HEAT	WATER	44	20.00	48.90%	1	230	1	60	3600	BELL & GOSSET / E-90 ECM	

HOT WATER CABINET HEATER

TAG	LOCATION	TYPE	MBH	CFM	GPM	EWT (°F)	LWT (°F)	WPD (FT)	FAN MOTOR DATA				"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
									RPM	HP	VOLT	PH		
CUH-3-1	SEE PLANS	CEILING MOUNTED	22.8	335	2.28	200.0	180.0	0.36	1050	0.07	115	1	STERLING / C (1190 or 1200) 1 row	

AIR HANDLING UNIT - HYDRONIC HEAT/DX COOL

TAG	LOCATION	SERVICE	TYPE	CFM	OA CFM	SUPPLY FAN MOTOR DATA						DX COIL							HEATING COIL								"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
						ESP (IN-WG)	FAN TYPE	BHP	RPM	HP	VOLT	PH	EAT DB/WB (°F)	LAT DB/WB (°F)	TOTAL MBH	SENSIBLE MBH	APD (IN-WG)	REF TYPE	MAX FACE VELOCITY (FPM)	EAT (°F)	LAT (°F)	MBH	APD (IN-WG)	GPM	FLUID TYPE	EWT (°F)	LWT (°F)	WPD (FT)	MIN ROWS		
AHU-3-A	MECHANICAL ROOM 126	A-WING	TOP RETURN TOP DISCHARGE	2800	300	1.75	PLENUM	2.3	2082	3.0	208	1	76.5/64.1	54.8/53.0	87.6	64.3	0.44	R-410A	390	49.3	93.3	138.4	0.07	12	WATER	180.0	156.3	4.00	1	AAON / V3-CRB-9-0-142D-11Q	1, 2, 3
AHU-3-B	MECHANICAL ROOM 147	B-WING	TOP RETURN TOP DISCHARGE	2600	320	1.75	PLENUM	2.1	1995	3.0	208	1	76.7/64.2	54.1/52.4	87.1	62.4	0.39	R-410A	370	61.5	103.5	119.7	0.06	12	WATER	180.0	159.5	4.00	1	AAON / V3-CRB-9-0-142D-11Q	1, 2, 3
AHU-3-C1	MECHANICAL ROOM 165	C-WING	TOP RETURN TOP DISCHARGE	2350	630	2.00	PLENUM	1.8	1885	3.0	208	1	79.3/64.9	55.2/54.9	65.1	56.5	0.32	R-410A	330	51.2	93.4	110.9	0.05	10	WATER	180.0	157.2	0.70	1	AAON / V3-CRB-9-0-161C-11H	1, 2, 3
AHU-3-C2	MECHANICAL ROOM 165	C-WING	TOP RETURN TOP DISCHARGE	2350	630	2.00	PLENUM	1.8	1885	3.0	208	1	79.3/64.9	55.2/54.9	65.1	56.5	0.32	R-410A	330	51.2	93.4	110.9	0.05	10	WATER	180.0	157.2	0.70	1	AAON / V3-CRB-9-0-161C-11H	1, 2, 3

REMARKS
1. PROVIDE INTEGRAL DISCONNECT SWITCH, MERV-14 FILTERS, VIBRATION ISOLATION SUPPORTS, AND MANUFACTURER'S CONTROLLER WITH BMS INTEGRATION CARD.
2. PROVIDE UNIT WITH HOT-GAS REHEAT CAPABILITY.
3. UNIT SECTIONS TO FIT THROUGH STANDARD 3' DOOR.

ENERGY RECOVERY VENTILATOR

TAG	LOCATION	SERVICE	TYPE	CFM	OA CFM	SUPPLY FAN MOTOR DATA							RETURN OR EXHAUST FAN MOTOR DATA							ENERGY RECOVERY										ELECTRICAL		"BASIS OF DESIGN" MANUFACTURER & MODEL #	REMARKS
																				WINTER						SUMMER							
						ESP (IN WG)	FAN TYPE	BHP	HP	RPM	VOLT	PH	ESP (IN WG)	FAN TYPE	BHP	HP	RPM	VOLT	PH	EDB	EWB	LDB	LWB	TOTAL EFF %	TOTAL BTU RECOVERED	EDB	EWB	LDB	LWB	TOTAL EFF %	TOTAL BTU RECOVERED	MCA	MOCP		
ERV-3-A	3-162 MECHANICAL	A-WING	STATIC PLATE	685	704	1.11	DIRECT DRIVE	0.0	0.8	1725	230	1	1.05	DIRECT DRIVE	0.0	0.8	1725	230	1	2.9	1.7	70.0	51.3	69.8	42443.0	88.7	73.2	75.0	62.5	53.5	14461.0	10.1	15	INTEREK / HE-1XJINH-S15HH--DANTF--L	1, 2
ERV-3-B	3-147 MECHANICAL	B-WING	STATIC PLATE	445	453	0.66	DIRECT DRIVE	0.0	0.6	1725	230	1	0.63	DIRECT DRIVE	0.0	0.6	1725	230	1	2.9	1.7	70.0	51.3	70.1	27696.0	88.7	73.2	75.0	62.5	53.9	9476.0	4.9	15	INTEREK / EV450JIN--S15-----ANTF--L	1, 2

REMARKS
1. PERFORMANCE BASED ON EXHAUST ROOM AIR TEMPERATURE: WINTER ROOM TEMP 70°F DB/50°F WB & SUMMER ROOM TEMP 75°F/63°F WB.
2. PROVIDE MOTORIZED ISOLATION DAMPERS ON OUTSIDE AIR INTAKE AND EXHAUST AIR DISCHARGE.

Autodesk Docs://45682 Industry 72_73_74/080679-MECH22-BLDG 74-CENTRAL.rvt
7/8/2025 10:35:39 AM
36x24 PLOT SHEET

NEW YORK STATE | Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

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REGISTRATION EXPIRES: 07/31/2025

CONTRACT:
HVAC

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

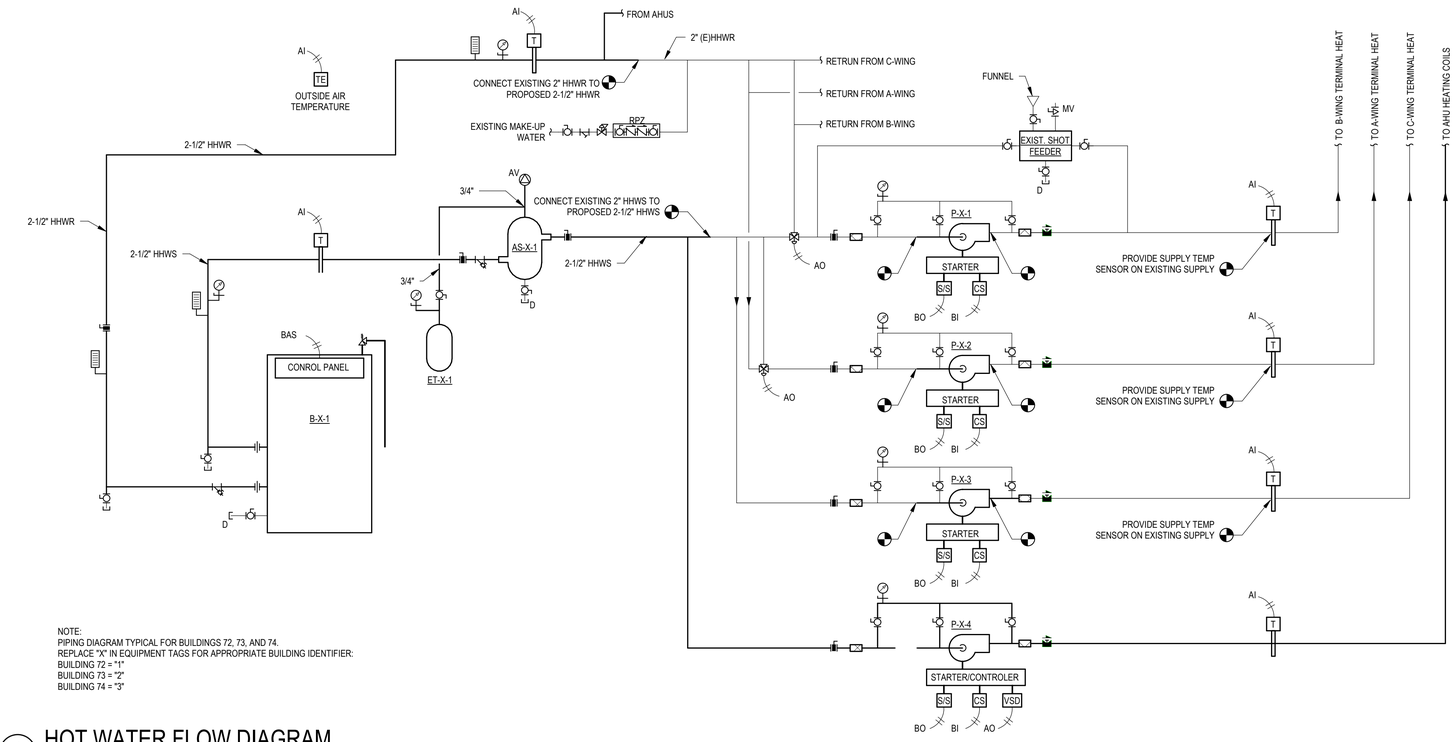
MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER: 45682-H
DESIGNED BY: JH
DRAWN BY: KH
FIELD CHECK:
APPROVED:

SHEET TITLE:
BUILDING 74 MECHANICAL SCHEDULES

DRAWING NUMBER:
M-3600

SHEET: OF



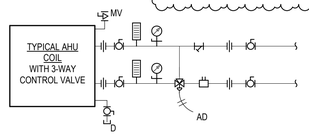
NOTE:
PIPING DIAGRAM TYPICAL FOR BUILDINGS 72, 73, AND 74.
REPLACE "X" IN EQUIPMENT TAGS FOR APPROPRIATE BUILDING IDENTIFIER:
BUILDING 72 = "1"
BUILDING 73 = "2"
BUILDING 74 = "3"

1 HOT WATER FLOW DIAGRAM

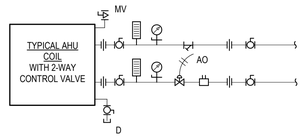
NOT TO SCALE

CONTOL NOTES

1. SECURE AND PAY FOR THE SERVICES OF JCI CONTROLS INC FOR THE FOLLOWING CONTROLS WORK:
   A. CONTROL PANEL WIRED NETWORK CONNECTION TO BUILDING'S NETWORK PANEL FOR COMMUNICATION TO CENTRAL BMS SERVER IN MAINTENANCE BUILDING.
   B. EXISTING CENTRAL BMS PROGRAM CHANGES INCLUDING GRAPHICS UPDATES TO SUPPORT THE SEQUENCES OF OPERATIONS LISTED IN SECTION 230923.
   C. COMMISSIIONING OF CONTROLS PROVIDED IN THIS PROJECT.
   D. TRAINING OF CONTROLS PROVIDED IN THIS PROJECT.
2. JCI CONTROLS LOCAL BRANCH INFORMATION:
   90 GOODWAY DRIVE, SUITE 1
   ROCHESTER, NY 14623
   PHONE: 585-924-9346

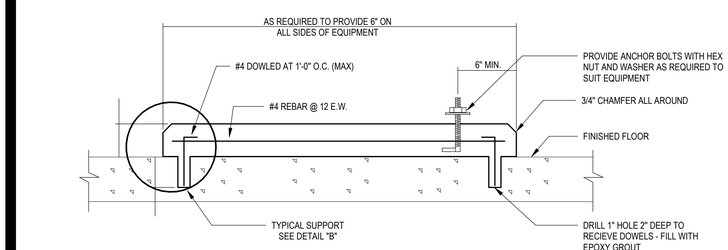


NOTE: 3-WAY REQUIRED ON AHU-1-A, AHU-2-A, AND AHU-3-A



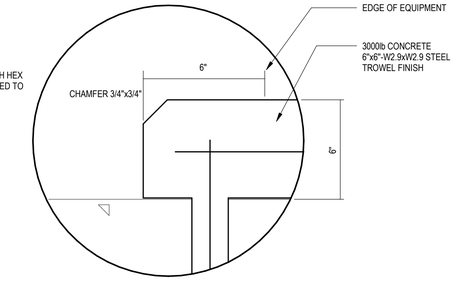
2 COIL PIPING DIAGRAM

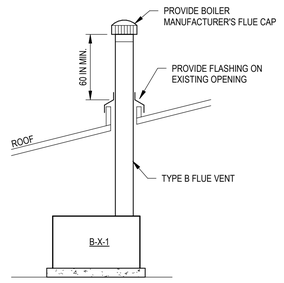
NOT TO SCALE



3 EQUIPMENT PAD DETAIL

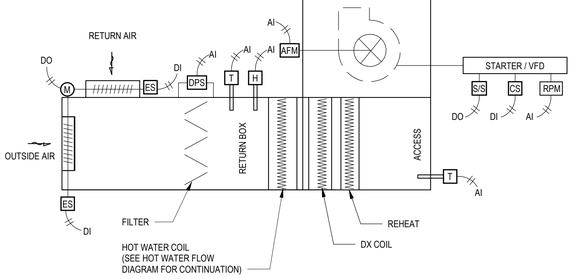
NOT TO SCALE





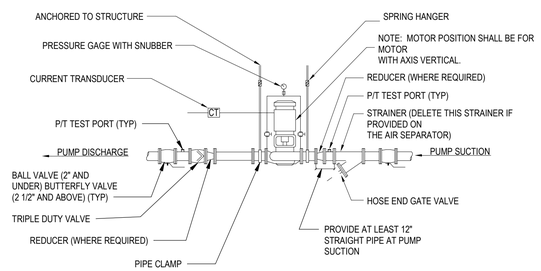
4 BOILER FLUE DETAIL

NOT TO SCALE



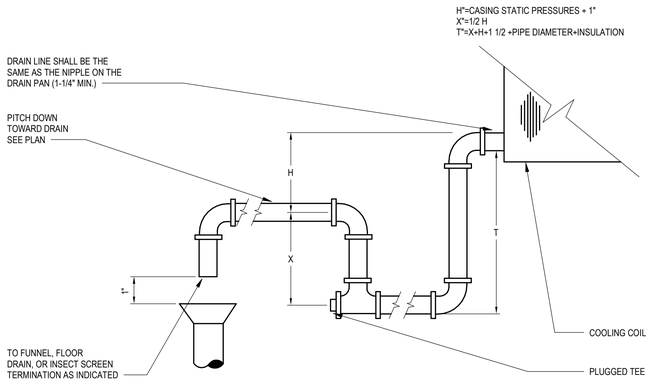
5 AHU FLOW & CONTORL DIAGRAM

NOT TO SCALE



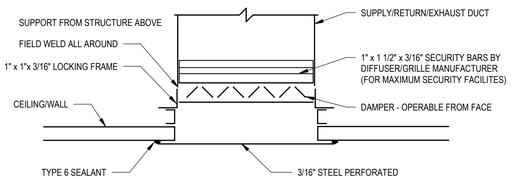
6 INLINE CIRCULATING PUMP DETAIL

NOT TO SCALE



7 COOLING COIL CONDENSATE TRAP

NOT TO SCALE



8 SECURE DIFFUSER/GRILLE DETAIL

NOT TO SCALE

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

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STATE OF NEW YORK · JEREMY A. LAZARUS · 089429 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2025

CONTRACT:

HVAC

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-H
DESIGNED BY:	JH
DRAWN BY:	KH
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

MECHANICAL DETAILS

DRAWING NUMBER:

M-4500

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-MECH22-BLDG 72-CENTRAL.rvt
7/9/2025 3:37:53 PM
36x24 PLOT SHEET

REMOVAL CODED NOTES

1. REMOVE PLUMBING FIXTURE AND ASSOCIATED SANITARY PIPING.
2. REMOVE EXISTING HOUSE TRAP AND 4" SANITARY PIPE TO POINT OF DISCONNECT SHOWN.
3. REMOVE 4" FRESH AIR INTAKE AND PATCH OPENING WITH MORTAR TO EXISTING FINISH FACE.
4. REMOVE EXISTING FLOOR DRAIN.
5. REMOVE EXISTING WASHING MACHINE BOX AND ASSOCIATED PIPING.
6. REMOVE EXISTING 4" SANITARY PIPE TO POINT OF DISCONNECT SHOWN AND PREPARE FOR RECONNECTION.
7. REMOVE EXISTING DECK PLATE CLEANOUT.
8. CAP LINE COMING OUT OF FLOOR. CAP LINE TO SINK.

GENERAL NOTES

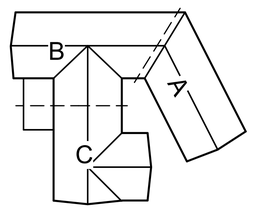
1. EXISTING ROOF IS UNDER WARRANTY, REFER TO SPECIFICATION SECTION 070150 AND COORDINATE WITH DIRECTOR'S REPRESENTATVE FOR ALL WORK IMPACTING ROOF.
1. SLAB REMOVALS ABOVE PIPING INDICATED TO BE REMOVED WILL BE COMPLETED BY C-CONTRACT, REMOVAL OF EARTH COVERING PIPING TO BE WITHIN SCOPE OF THIS CONTRACT.

1 BUILDING 72 1ST FLOOR UNDERSLAB PIPING PLAN REMOVALS

1/8" = 1'-0" 0' 4' 8' 16'

KEY PLAN

NOT TO SCALE



NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

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REGISTRATION EXPIRES
07/31/2025

PROJECT NORTH

CONTRACT:

PLUMBING

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-P
DESIGNED BY:	JH
DRAWN BY:	SK
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

BUILDING 72 PLUMBING DRAINAGE AND VENT PIPING REMOVAL PLANS

DRAWING NUMBER:

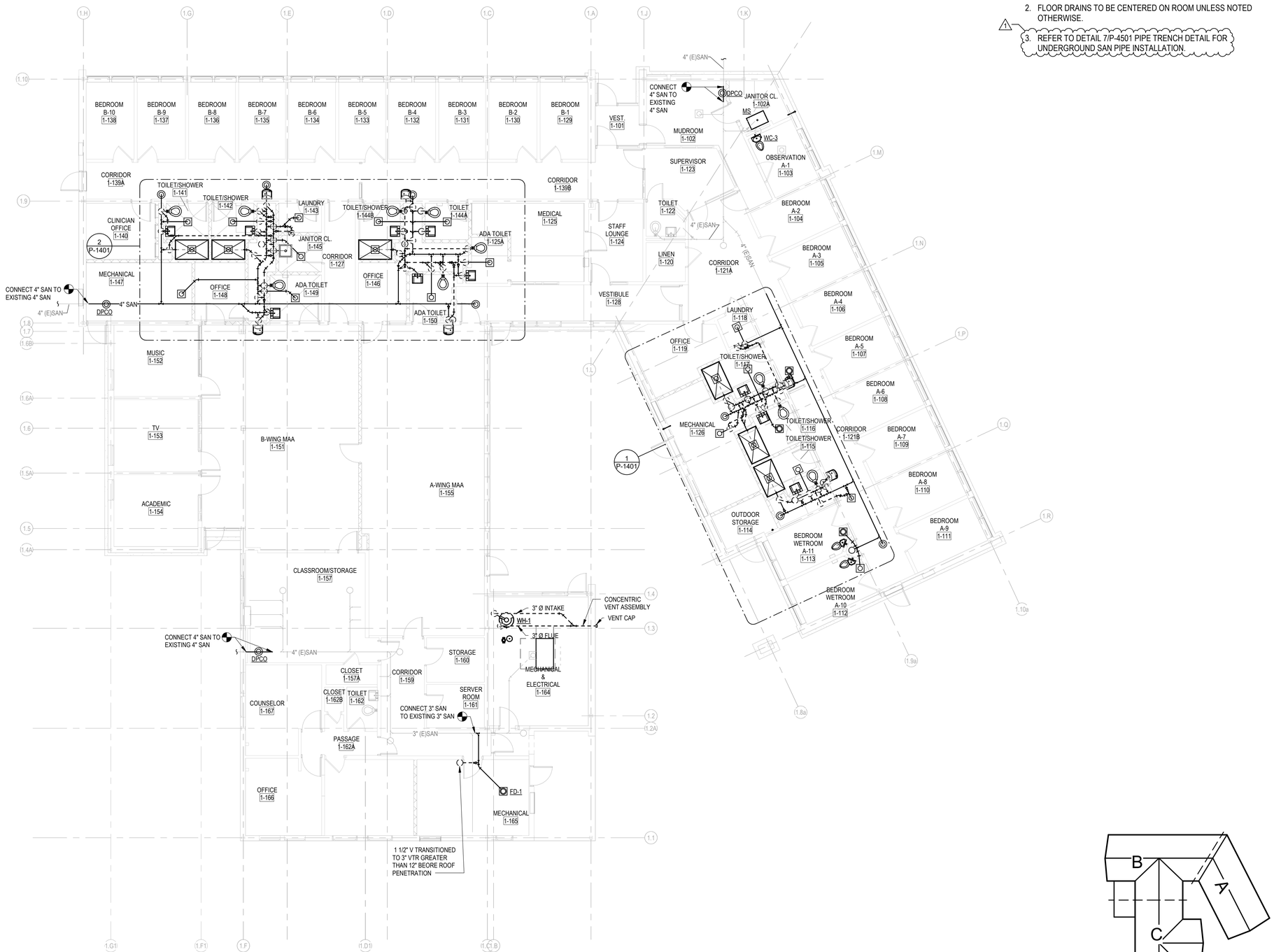
P-1001

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-PLUMB22-BLDG 72-CENTRAL.rvt
7/8/2025 11:06:29 AM
36x24 PLOT SHEET

GENERAL NOTES

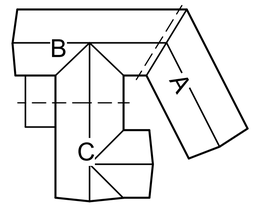
1. EXISTING ROOF IS UNDER WARRANTY, REFER TO SPECIFICATION SECTION 070150 AND COORDINATE WITH DIRECTOR'S REPRESENTATVE FOR ALL WORK IMPACTING ROOF.
2. FLOOR DRAINS TO BE CENTERED ON ROOM UNLESS NOTED OTHERWISE.
3. REFER TO DETAIL 7/P-4501 PIPE TRENCH DETAIL FOR UNDERGROUND SAN PIPE INSTALLATION.



1 BUILDING 72 1ST FLOOR DRAINAGE AND VENT PLAN

1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN

NOT TO SCALE

Autodesk Docs://45682 Industry 72_73_74/080679-PLUMB22-BLDG 72-CENTRAL.rvt
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36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

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STATE OF NEW YORK · JEREMY A. LAZZARA · LICENSED PROFESSIONAL ENGINEER · 089429
REGISTRATION EXPIRES: 07/31/2025

PROJECT NORTH

CONTRACT:

PLUMBING

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER: 45682-P

DESIGNED BY: JH

DRAWN BY: SK

FIELD CHECK:

APPROVED:

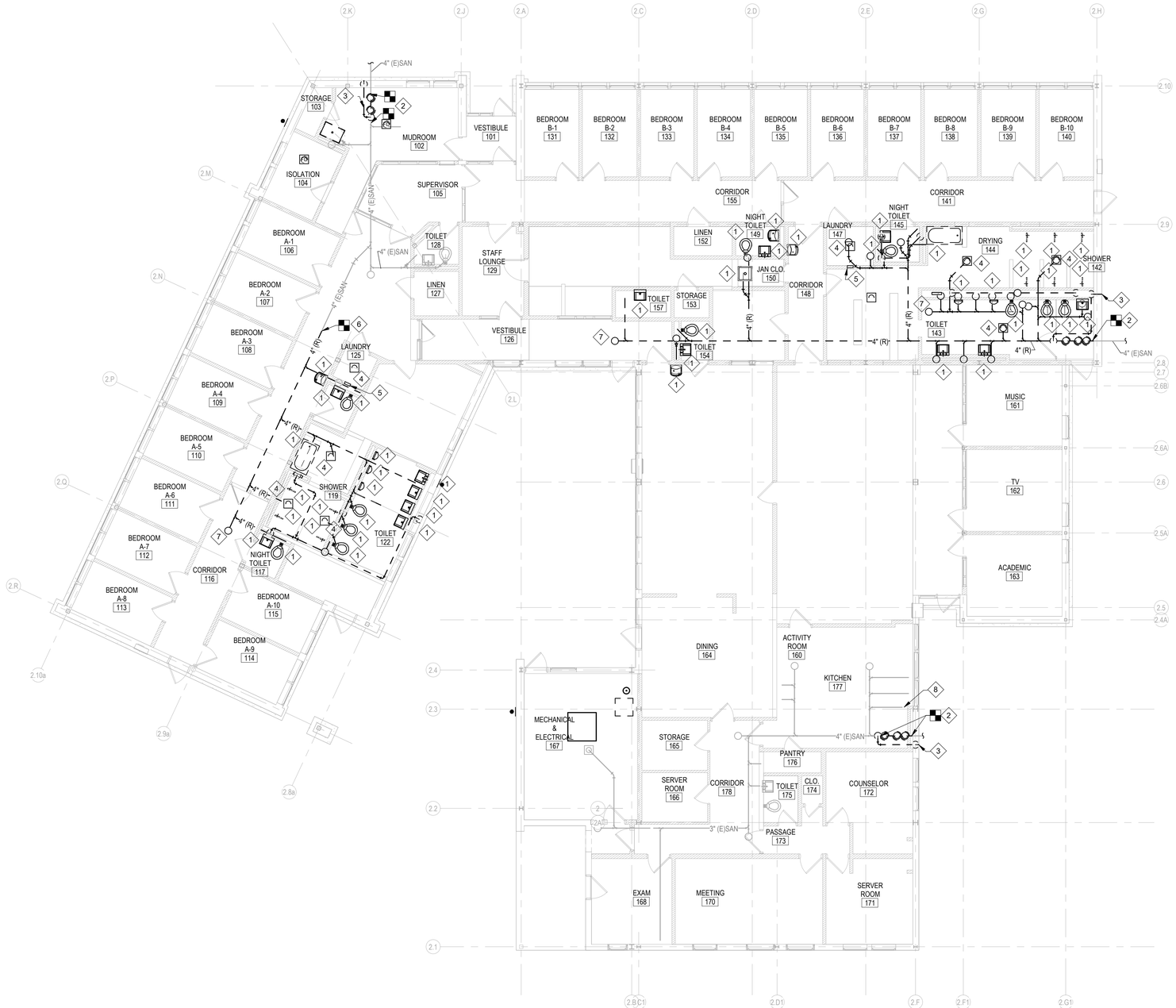
SHEET TITLE:

BUILDING 72 PLUMBING DRAINAGE AND VENT PIPING PLANS

DRAWING NUMBER:

P-1101

SHEET: OF



REMOVAL CODED NOTES

1. REMOVE PLUMBING FIXTURE AND ASSOCIATED SANITARY PIPING.
2. REMOVE EXISTING HOUSE TRAP AND 4" SANITARY PIPE TO POINT OF DISCONNECT.
3. REMOVE 4" FRESH AIR INTAKE AND PATCH OPENING WITH MORTAR TO EXISTING FINISH FACE.
4. REMOVE EXISTING FLOOR DRAIN.
5. REMOVE EXISTING WASHING MACHINE BOX AND ASSOCIATED PIPING.
6. REMOVE EXISTING 4" SANITARY PIPE TO POINT OF DISCONECT SHOWN AND PREPARE FOR RECONNECTION.
7. REMOVE EXISTING DECK PLATE CLEANOUT.
8. CAP DRAIN LINE TO SINK.

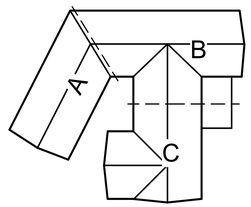
GENERAL NOTES

1. EXISTING ROOF IS UNDER WARRANTY, REFER TO SPECIFICATION SECTION 070150 AND COORDINATE WITH DIRECTOR'S REPRESENTATIVE FOR ALL WORK IMPACTING THE ROOF.
2. SLAB REMOVALS ABOVE PIPING INDICATED TO BE REMOVED WILL BE COMPLETED BY C-CONTRACT, REMOVAL OF EARTH COVERING PIPING TO BE WITHIN SCOPE OF THIS CONTRACT.

1 BUILDING 73 1ST FLOOR UNDERSLAB PIPING PLAN REMOVALS

1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN
NOT TO SCALE

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

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STATE OF NEW YORK · JEREMY A. LAZZARO · 089429 · LICENSED PROFESSIONAL ENGINEER
REGISTRATION EXPIRES: 07/31/2025

PROJECT NORTH

CONTRACT:

PLUMBING

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-P
DESIGNED BY:	JH
DRAWN BY:	SK
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 73 PLUMBING DRAINAGE AND VENT PIPING REMOVAL PLANS

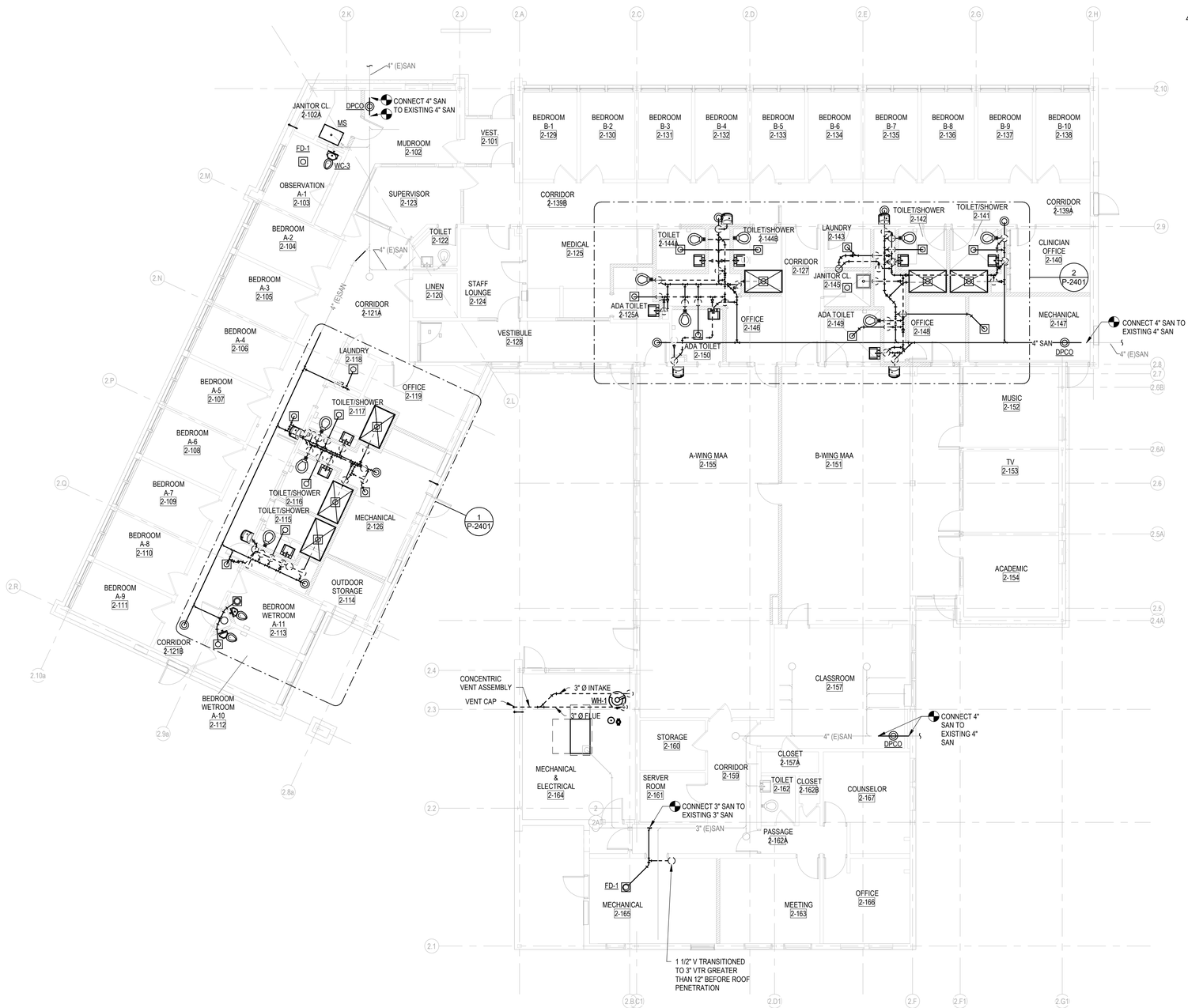
DRAWING NUMBER:
P-2001

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-PLUMB22-BLDG 73-CENTRAL_rvt
7/8/2025 11:08:25 AM
30x24 PLOT SHEET

GENERAL NOTES

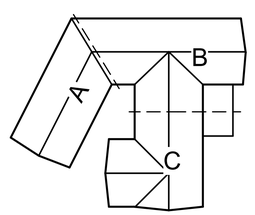
1. EXISTING ROOF IS UNDER WARRANTY. REFER TO SPECIFICATION SECTION 070150 AND COORDINATE WITH DIRECTOR'S REPRESENTATIVE FOR ALL WORK IMPACTING THE ROOF.
2. FLOOR DRAINS TO BE CENTERED ON ROOM UNLESS NOTED OTHERWISE.
3. REFER TO DETAIL 7/P-4501 PIPE TRENCH DETAIL FOR UNDERGROUND SAN PIPE INSTALLATION.



1 BUILDING 73 1ST FLOOR DRAINAGE AND VENT PLAN

1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN

NOT TO SCALE

Autodesk Docs://45682 Industry 72_73_74/080679-PLUMB22-BLDG 73-CENTRAL.rvt
7/8/2025 11:08:27 AM
36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

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STATE OF NEW YORK · JEREMY A. LAZZARO · LICENSED PROFESSIONAL ENGINEER · 089429

REGISTRATION EXPIRES: 07/31/2025

PROJECT NORTH

CONTRACT:

PLUMBING

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

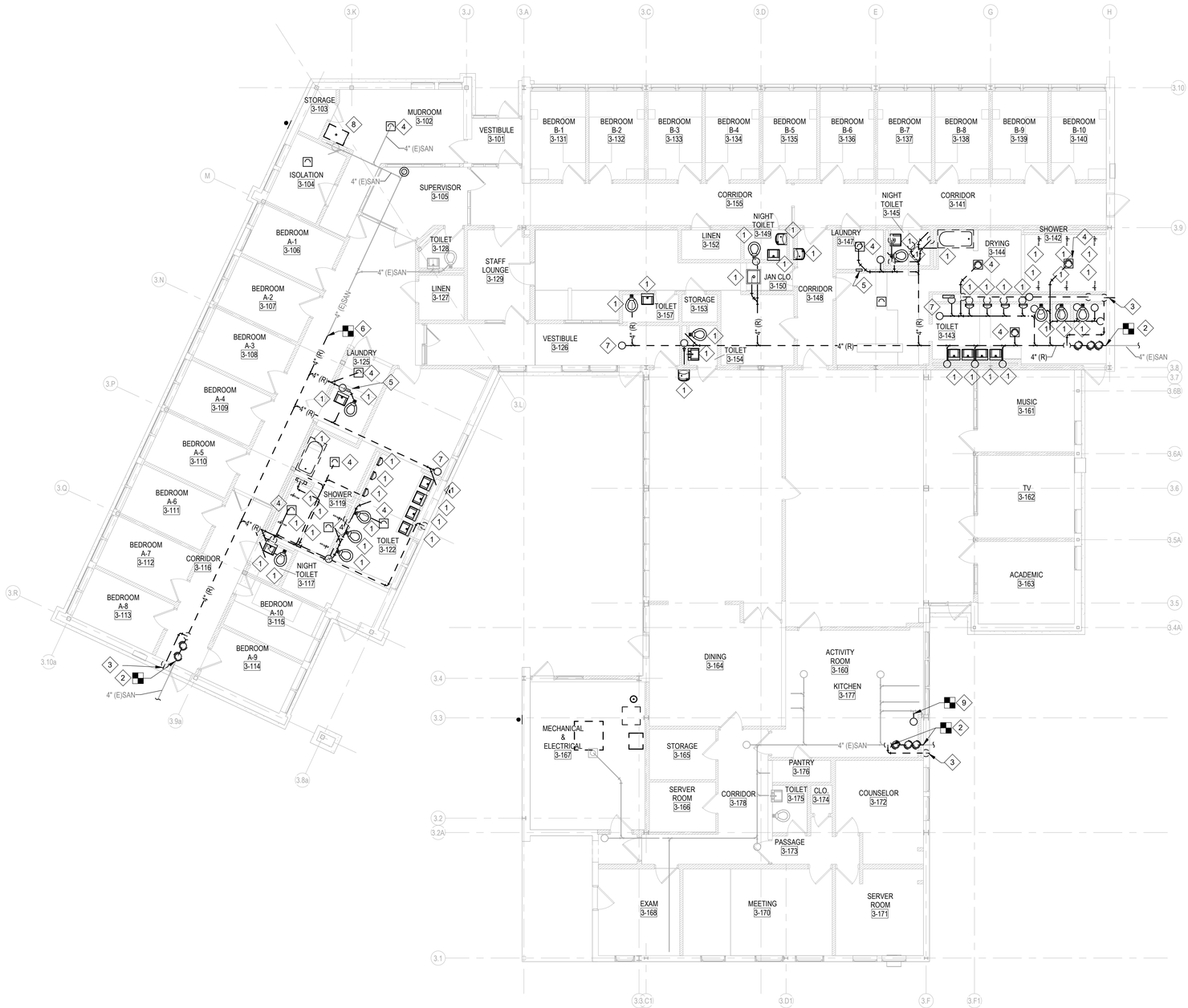
MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-P
DESIGNED BY:	JH
DRAWN BY:	SK
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 73 PLUMBING DRAINAGE AND VENT PIPING PLANS

DRAWING NUMBER:
P-2101

SHEET: OF



REMOVAL CODED NOTES

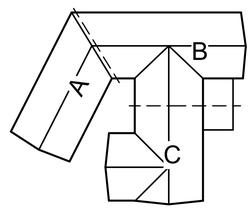
1. REMOVE PLUMBING FIXTURE AND ASSOCIATED SANITARY PIPING.
2. REMOVE EXISTING HOUSE TRAP AND 4" SANITARY PIPE TO POINT OF DISCONNECT.
3. REMOVE 4" FRESH AIR INTAKE AND PATCH OPENING WITH MORTAR TO EXISTING FACE.
4. REMOVE EXISTING FLOOR DRAIN.
5. REMOVE EXISTING WASHING MACHINE BOX AND ASSOCIATED PIPING.
6. REMOVE EXISTING 4" SANITARY PIPE TO POINT OF DISCONNECT SHOWN AND PREPARE FOR RECONNECTION.
7. REMOVE EXISTING DECK PLATE CLEANOUT.
8. REMOVE EXISTING MOP SINK. PREPARE PIPING FOR RECONNECTION.
9. CAP DRAIN LINE TO SINK.

GENERAL NOTES

1. EXISTING ROOF IS UNDER WARRANTY, REFER TO SPECIFICATION SECTION 070150 AND COORDINATE WITH DIRECTOR'S REPRESENTATIVE FOR ALL WORK IMPACTING ROOF.
2. SLAB REMOVALS ABOVE PIPING INDICATED TO BE REMOVED WILL BE COMPLETED BY C. CONTRACT REMOVAL OF EARTH COVERING PIPING TO BE WITHIN SCOPE OF THIS CONTRACT.

1 BUILDING 74 1ST FLOOR UNDERSLAB PIPING PLAN REMOVALS
1/8" = 1'-0"
0' 4' 8' 16'

KEY PLAN
NOT TO SCALE



NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

ENERGY CODE COMPLIANCE STATEMENT:
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STATE OF NEW YORK · JEREMY A. LAZZARA · LICENSED PROFESSIONAL ENGINEER · 089429

REGISTRATION EXPIRES 07/31/2025

PROJECT NORTH

CONTRACT:

PLUMBING

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-P
DESIGNED BY:	JH
DRAWN BY:	SK
FIELD CHECK:	
APPROVED:	

SHEET TITLE:
BUILDING 74 PLUMBING DRAINAGE AND VENT PIPING REMOVAL PLANS

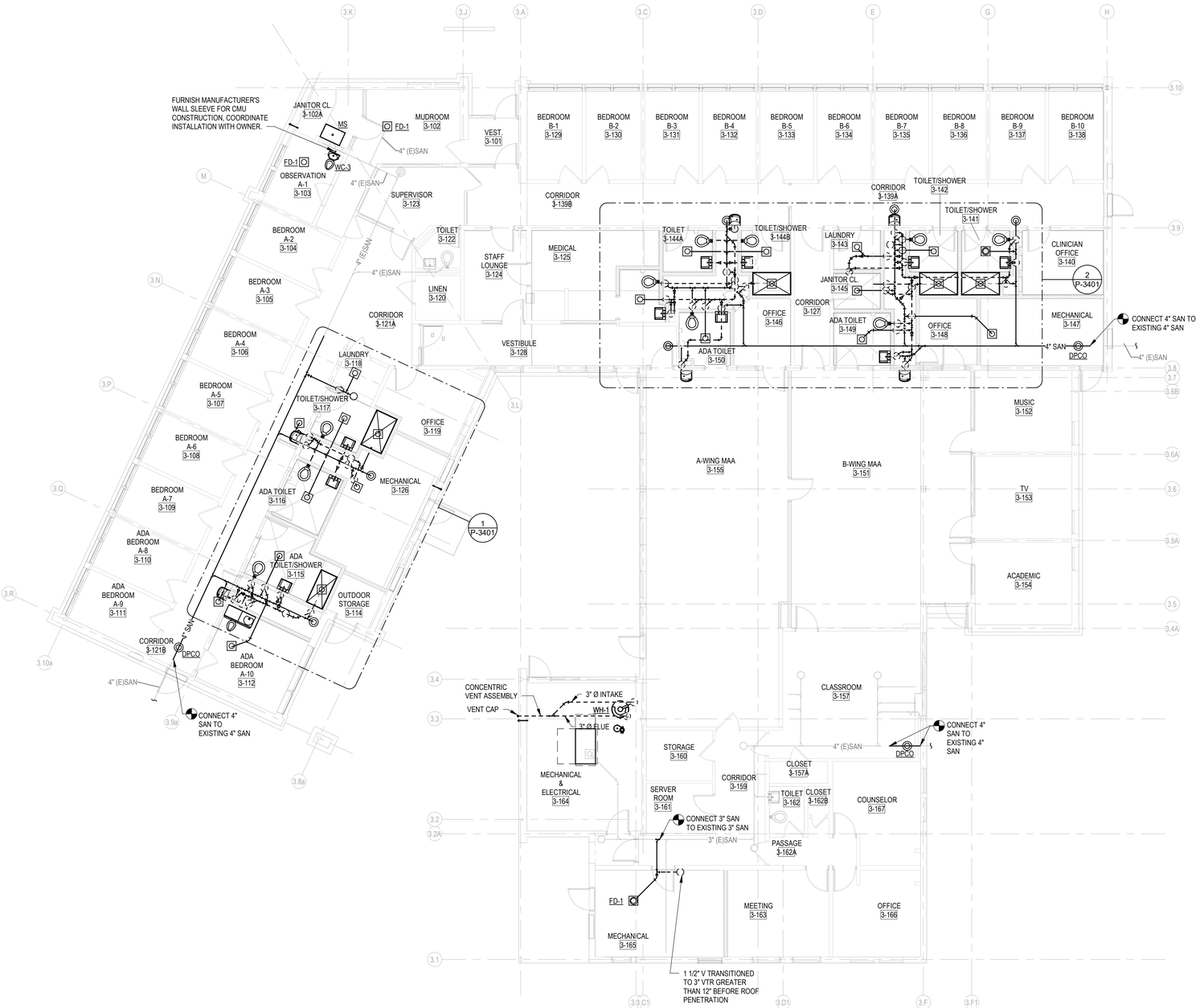
DRAWING NUMBER:
P-3001

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-PLUMB22-BLDG 74-CENTRAL.rvt
7/8/2025 11:09:34 AM
36x24 PLOT SHEET

GENERAL NOTES

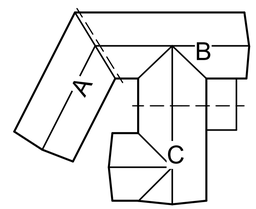
1. EXISTING ROOF IS UNDER WARRANTY, REFER TO SPECIFICATION SECTION 070150 AND COORDINATE WITH DIRECTOR'S REPRESENTATIVE FOR ALL WORK IMPACTING ROOF.
2. FLOOR DRAINS NOTED TO BE CENTERED ON ROOM UNLESS NOTED OTHERWISE.
3. REFER TO DETAIL 7/P-4501 PIPE TRENCH DETAIL FOR UNDERGROUND SAN PIPE INSTALLATION.



1 BUILDING 74 1ST FLOOR DRAINAGE AND VENT PLAN

1/8" = 1'-0"

0' 4' 8' 16'



KEY PLAN

NOT TO SCALE

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
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STATE OF NEW YORK · JEREMY A. LAZZARO · 089429 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2025

PROJECT NORTH

CONTRACT:

PLUMBING

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM NO 2
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-P
DESIGNED BY:	JH
DRAWN BY:	SK
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

BUILDING 74 PLUMBING DRAINAGE AND VENT PIPING PLANS

DRAWING NUMBER:

P-3101

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-PLUMB22-BLDG 74-CENTRAL.rvt
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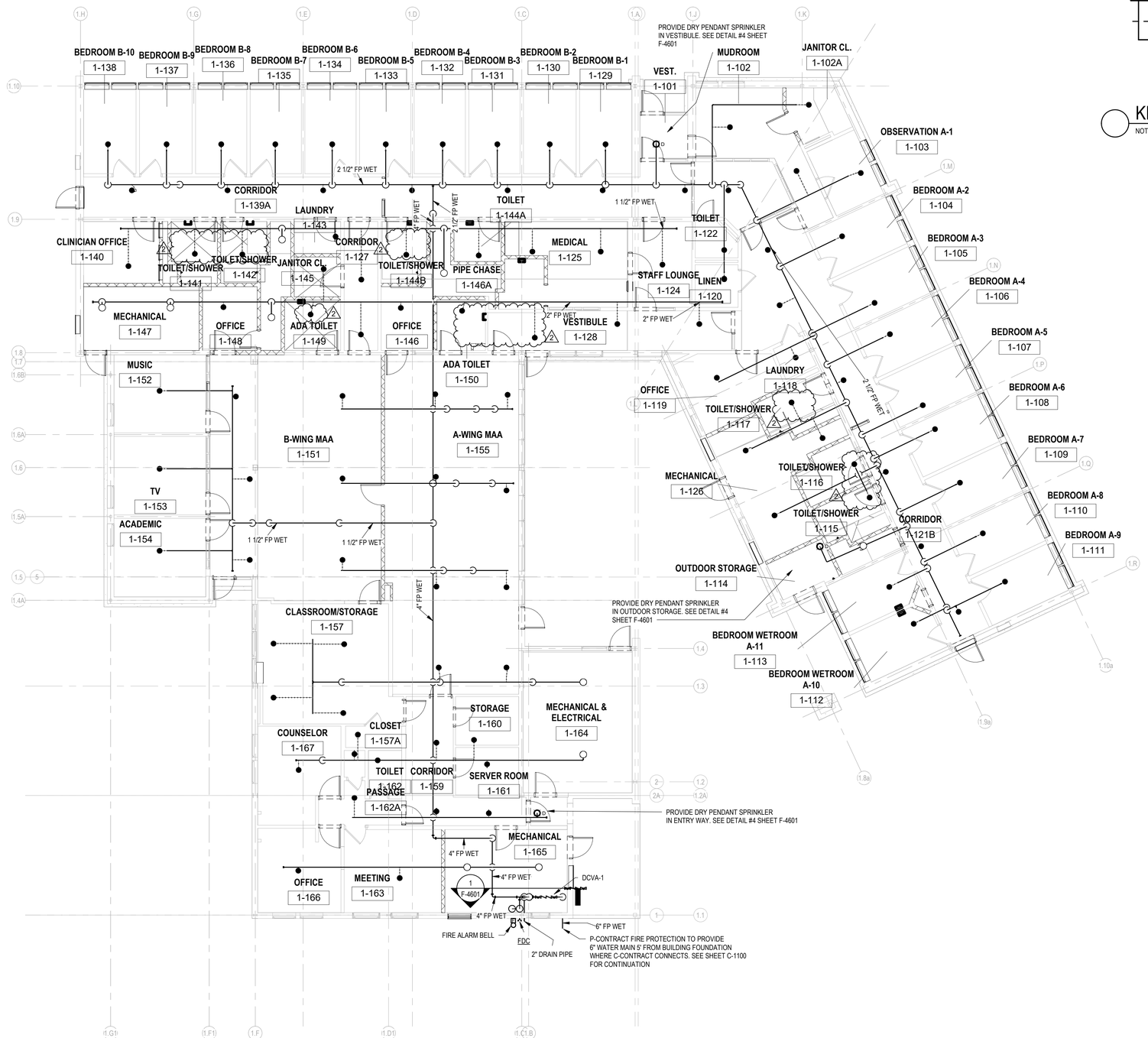
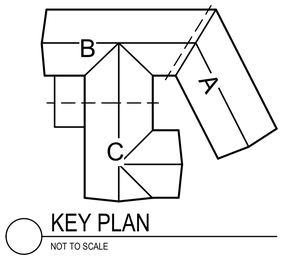
36x24 PLOT SHEET



1 BUILDING 72 FIRE PROTECTION PLAN

1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
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STATE OF NEW YORK · JEREMY A. LAZZARA · 089429 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2025

TRUE NORTH
PROJECT NORTH

CONTRACT:

PLUMBING

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
2	07/11/2025	ADDENDUM NO 2
1	06/25/2025	ADDENDUM NO 1
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-P
DESIGNED BY:	RA
DRAWN BY:	RA
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

BUILDING 72 FIRE PROTECTION PLAN

DRAWING NUMBER:

F-1100

SHEET: OF

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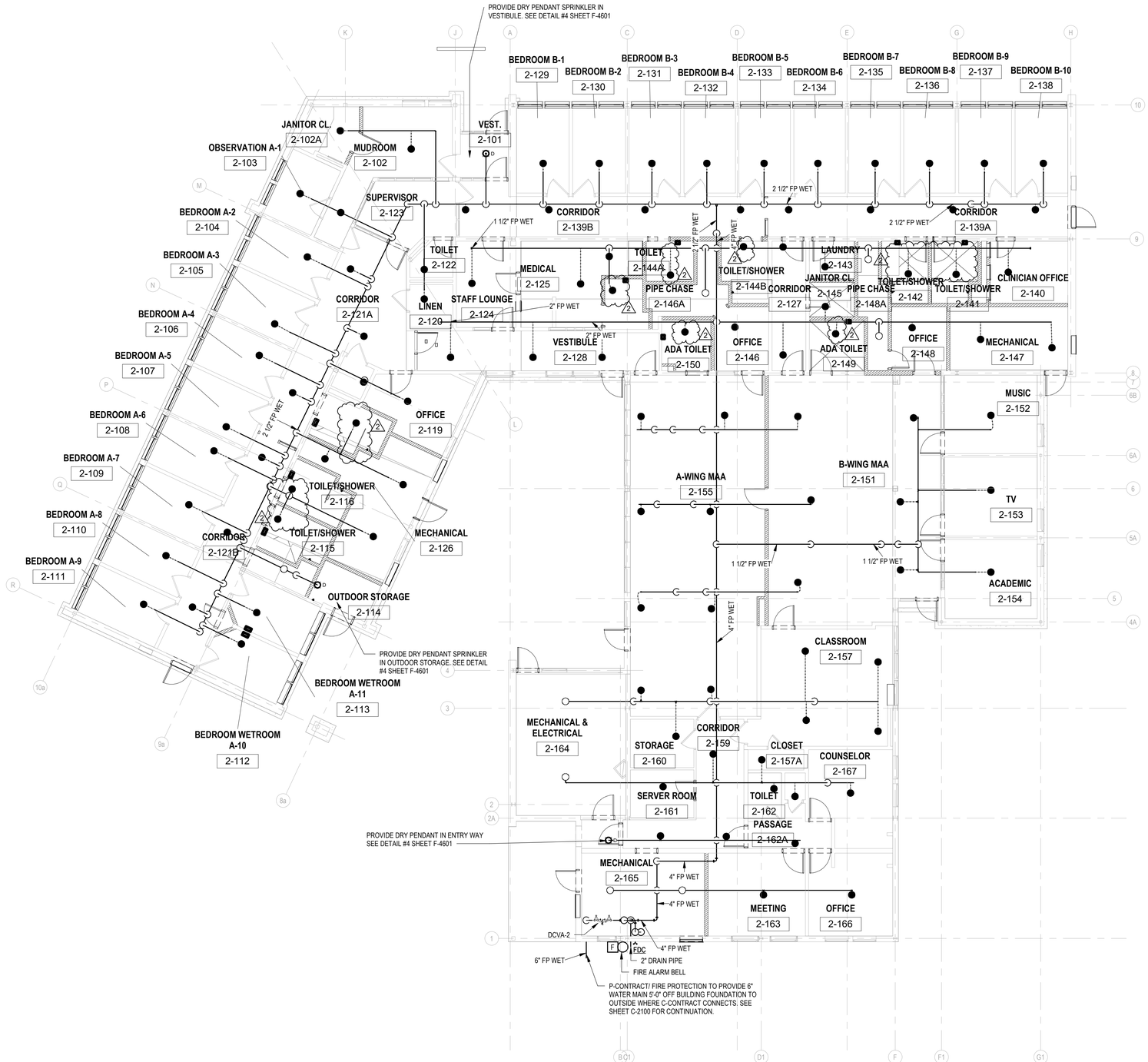
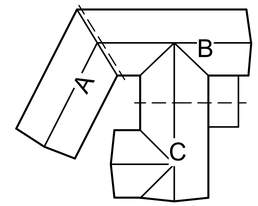
36x24 PLOT SHEET



1 BUILDING 73 FIRE PROTECTION PLAN

1/8" = 1'-0" 0' 4' 8' 16'



KEY PLAN

NOT TO SCALE

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
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STATE OF NEW YORK · JEREMY A. LAZZARO · LICENSED · 089423 · PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2025

PROJECT NORTH

TRUE NORTH

CONTRACT:

PLUMBING

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
2	07/11/2025	ADDENDUM NO 2
1	06/25/2025	ADDENDUM NO 1
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-P
DESIGNED BY:	RA
DRAWN BY:	RA
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

BUILDING 73 FIRE PROTECTION PLAN

DRAWING NUMBER:

F-2100

SHEET: OF

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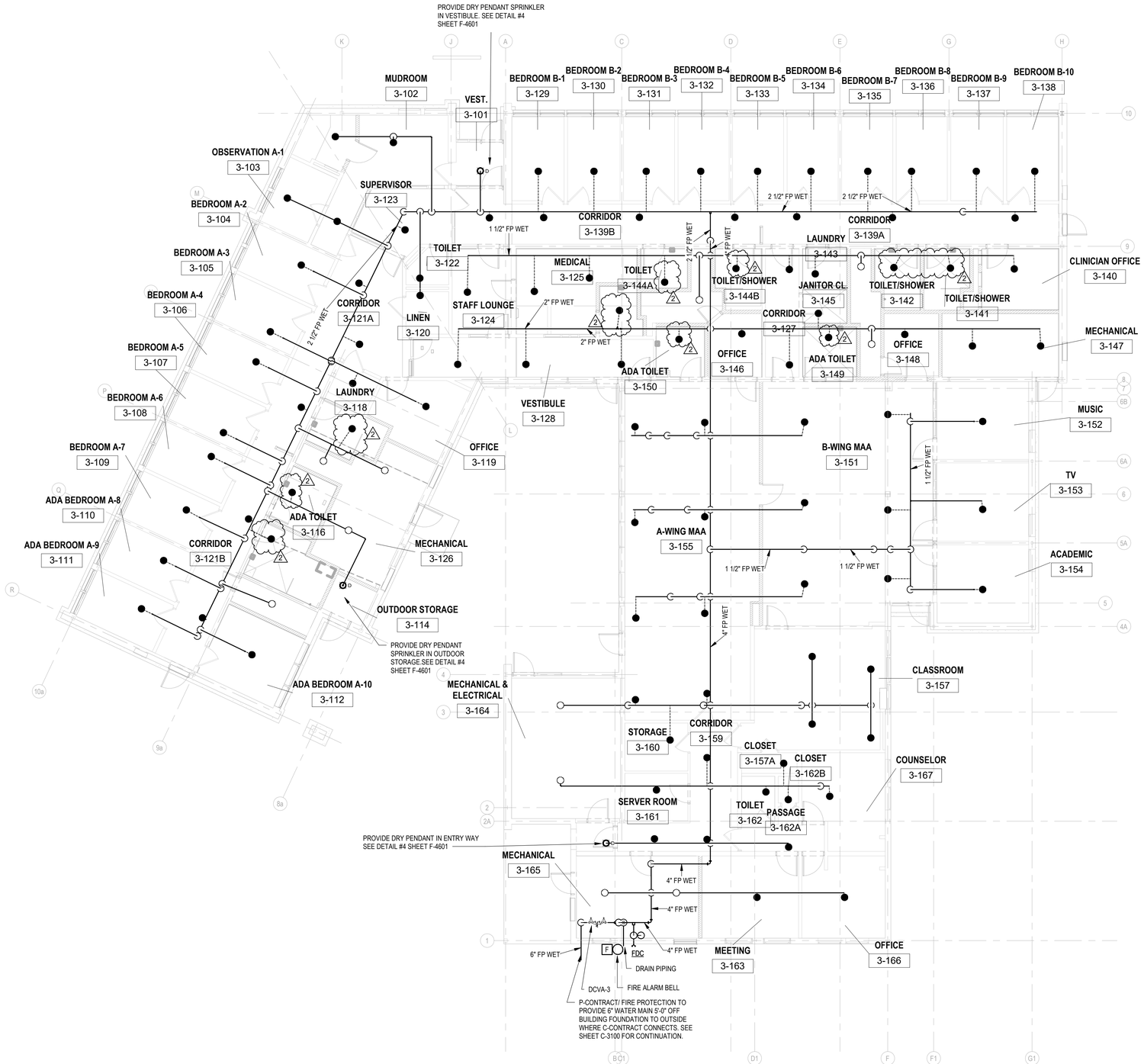
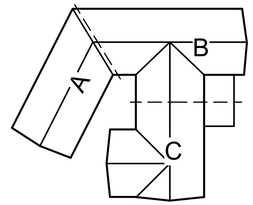
36x24 PLOT SHEET



1 BUILDING 74 FIRE PROTECTION PLAN

1/8" = 1'-0"



KEY PLAN

NOT TO SCALE

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

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STATE OF NEW YORK · JEREMY A. LAZZARO · LICENSED · 089429 · PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 07/31/2025

PROJECT NORTH

TRUE NORTH

CONTRACT:

PLUMBING

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
2	07/11/2025	ADDENDUM NO 2
1	06/25/2025	ADDENDUM NO 1
0	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-P
DESIGNED BY:	RA
DRAWN BY:	RA
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

BUILDING 74 FIRE PROTECTION PLAN

DRAWING NUMBER:

F-3100

SHEET: OF

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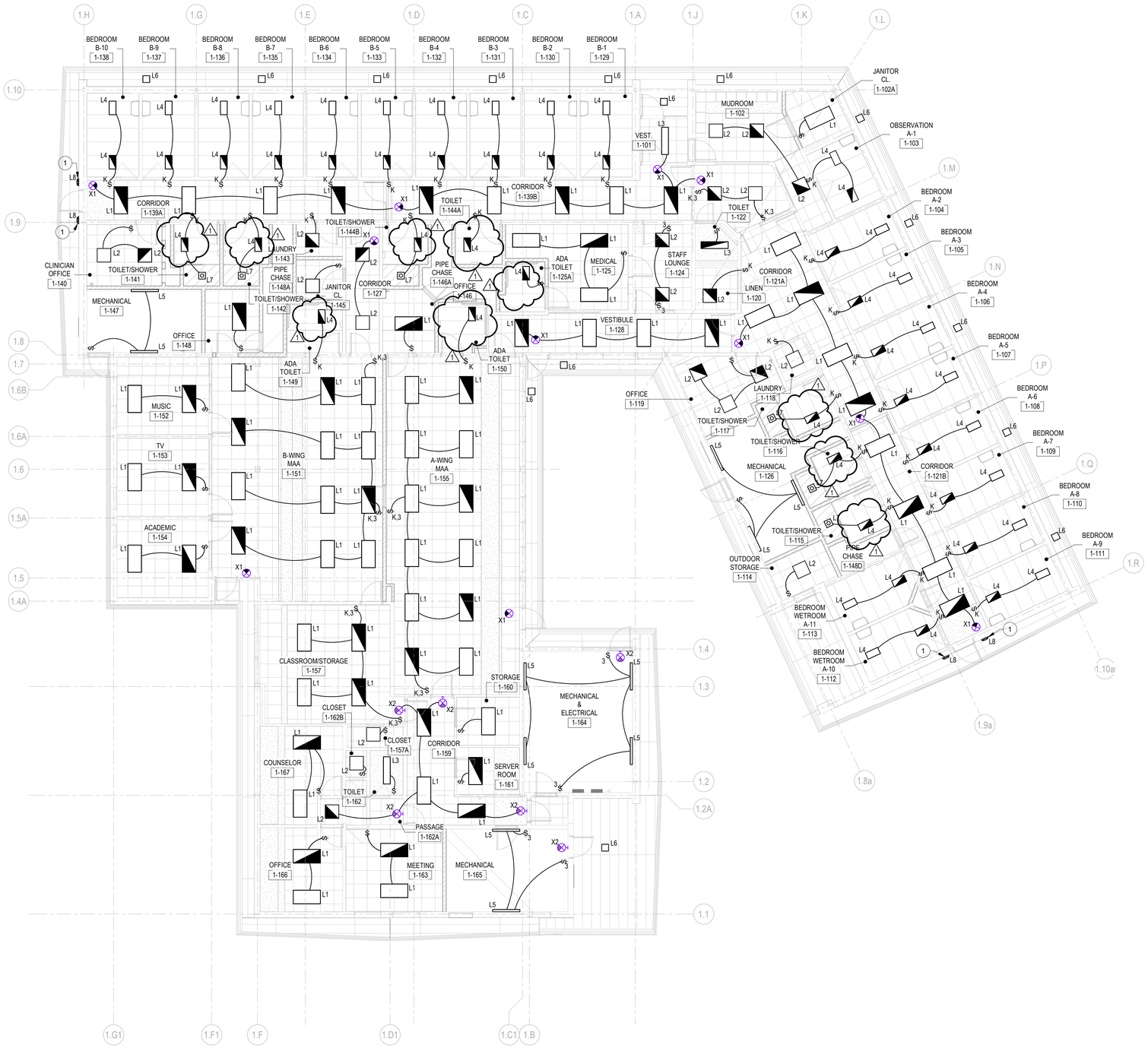

1 BUILDING 72 - ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING E-1501 FOR SCHEDULES.
2. COORDINATE WORK ON THIS DRAWING WITH ARCHITECTURAL DRAWINGS FOR EXTENT OF NEW WALL AND CEILING WORK.
3. CONNECT EMERGENCY AND EXIT LIGHTS TO THE SOURCE SIDE LIGHTING SWITCH.
4. UTILIZE EXISTING LIGHTING CIRCUITS SAVED DURING REMOVALS. EXTEND CIRCUITS WHERE NECESSARY.
5. PROVIDE LEVITON 1221-2KL KEYED SWITCH, OR APPROVED EQUAL. PROVIDE KEYED SWITCHES THAT ARE COMPATIBLE WITH WS-35 KEYS. THIS NOTE APPLIES TO ALL KEYED SWITCHES.
6. DO NOT WIRE NIGHT LIGHTS TO SWITCHES. WIRE ALL NIGHT LIGHTS DIRECTLY TO SOURCE.
7. WIRING INDICATES LIGHTING CONTROLS ONLY.
8. CIRCUIT LIGHT FIXTURES WITH NO SWITCH DIRECTLY TO SOURCE PANEL. THESE LIGHT FIXTURES ARE INTENDED TO REMAIN ON AT ALL TIMES.

CODED NOTES: (#)

1. MOUNT LIGHT FIXTURE 10'-0" ABOVE FINISHED GRADE.

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
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STATE OF NEW YORK · JOSEPH J. DELABRIERE · LICENSED PROFESSIONAL ENGINEER · 089569

REGISTRATION EXPIRES: 10/31/2025

PROJECT NORTH

CONTRACT:

ELECTRICAL

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73, AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM 2
	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-E
DESIGNED BY:	KML
DRAWN BY:	KML
FIELD CHECK:	
APPROVED:	JJD

SHEET TITLE:

BUILDING 72 - ELECTRICAL LIGHTING PLAN

DRAWING NUMBER:

E-1201

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-ELEC22-BLDG-72-CENTRAL.rvt
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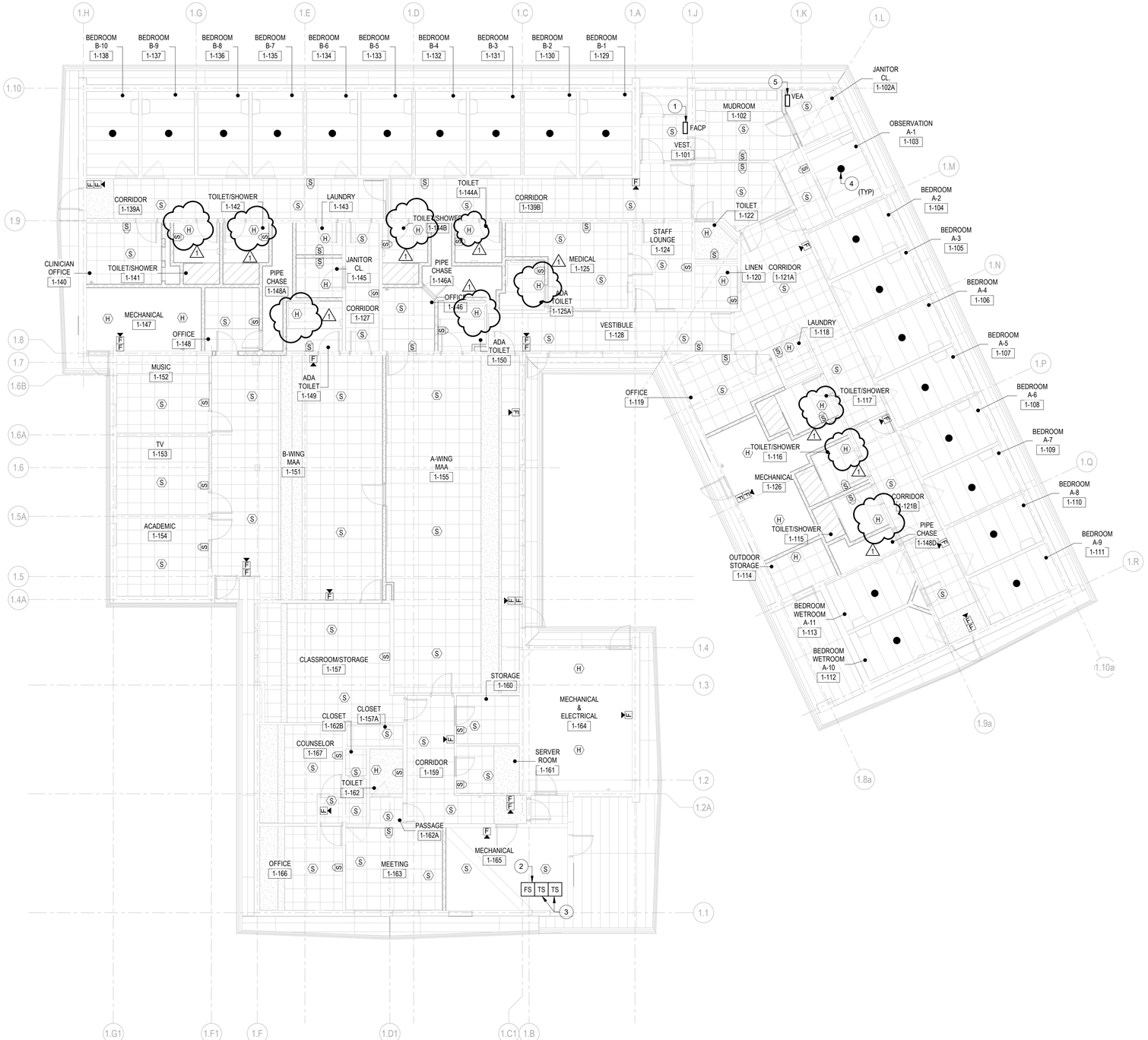

1 BUILDING 72 - ELECTRICAL FIRE ALARM SYSTEMS PLAN

1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES:

1. REFER TO DRAWING E-0001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. PROVIDE FIRE ALARM ADDRESSABLE INITIATING AND ANNUNCIATION DEVICES IN THE RENOVATED AREAS AND CONNECT TO FACP LOCATED IN VESTIBULE 101. UTILIZE EXISTING FIRE ALARM CIRCUITS SAVED DURING DEMOLITION. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS.

CODED NOTES: (#)

1. PROVIDE SIMPLEX 4100ES FACP PANEL IN PLACE OF REMOVED PANEL. RECONNECT ALL EXISTING CIRCUITS. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS. AFTER RE-INSTALLATION OF ALL EXISTING CIRCUITS TO REPLACEMENT FACP TEST/PROGRAM THE COMPLETE SYSTEM IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
2. FLOW SWITCH PROVIDED UNDER P-CONTRACT. PROVIDE CONDUIT, WIRING, AND CIRCUITING.
3. TAMPER SWITCH PROVIDED UNDER P-CONTRACT. PROVIDE CONDUIT, WIRING, AND CIRCUITING.
4. PROVIDE AIR ASPIRATION SMOKE DETECTOR. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS.
5. PROVIDE VESDA MULTI-POINT ADDRESSABLE AIR ASPIRATION SMOKE DETECTION PANEL. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS.

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
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STATE OF NEW YORK · JOEY V. DELABRUERE · 089569 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 10/31/2025

PROJECT NORTH

CONTRACT:

ELECTRICAL

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73, AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM 2
	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-E
DESIGNED BY:	KML
DRAWN BY:	KML
FIELD CHECK:	
APPROVED:	JJD

SHEET TITLE:

BUILDING 72 - ELECTRICAL FIRE ALARM SYSTEMS PLAN

DRAWING NUMBER:

E-1302

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-ELEC22-BLDG-72-CENTRAL.rvt
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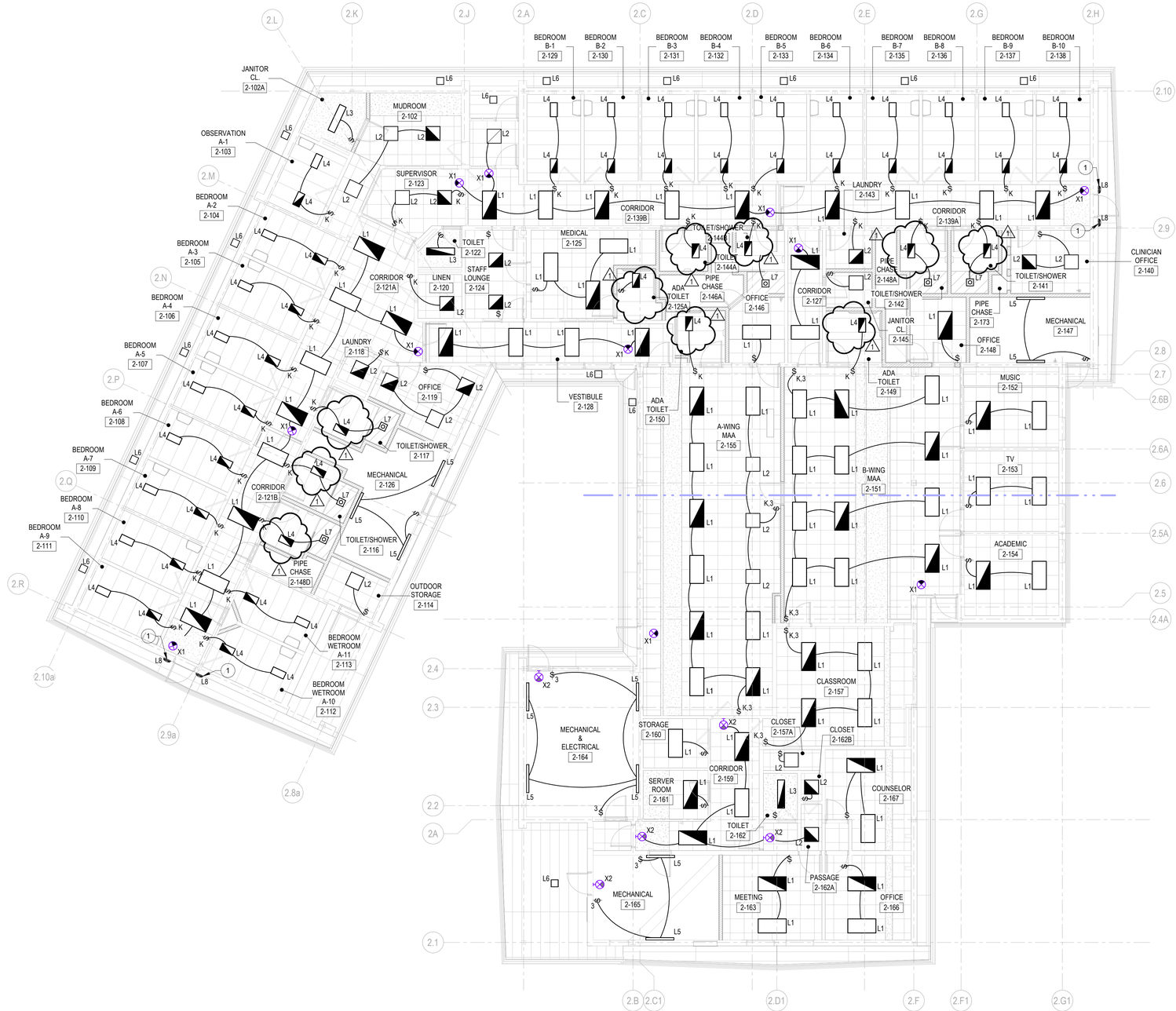

1 BUILDING 73 - ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING E-2501 FOR SCHEDULES.
2. COORDINATE WORK ON THIS DRAWING WITH ARCHITECTURAL DRAWINGS FOR EXTENT OF NEW WALL AND CEILING WORK.
3. CONNECT EMERGENCY AND EXIT LIGHTS TO THE SOURCE SIDE LIGHTING SWITCH.
4. UTILIZE EXISTING LIGHTING CIRCUITS SAVED DURING REMOVALS. EXTEND CIRCUITS WHERE NECESSARY.
5. PROVIDE LEVITON 1221-2KL KEYED SWITCH, OR APPROVED EQUAL. PROVIDE KEYED SWITCHES THAT ARE COMPATIBLE WITH WS-35 KEYS. THIS NOTE APPLIES TO ALL KEYED SWITCHES.
6. DO NOT WIRE NIGHT LIGHTS TO SWITCHES. WIRE ALL NIGHT LIGHTS DIRECTLY TO SOURCE.
7. WIRING INDICATES LIGHTING CONTROLS ONLY.
8. CIRCUIT LIGHT FIXTURES WITH NO SWITCH DIRECTLY TO SOURCE PANEL. THESE LIGHT FIXTURES ARE INTENDED TO REMAIN ON AT ALL TIMES.

CODED NOTES: (#)

1. MOUNT LIGHT FIXTURE 10'-0" ABOVE FINISHED GRADE.

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

ENERGY CODE COMPLIANCE STATEMENT:
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STATE OF NEW YORK · JOSEPH J. DELABRIERE · 089569 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 10/31/2025

PROJECT NORTH

CONTRACT:

ELECTRICAL

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATES OFFICE OF CHILDREN AND FAMILY SERVICES

1	07/11/2025	ADDENDUM 2
	11/20/2024	BID SUBMISSION
MARK	DATE	DESCRIPTION

PROJECT NUMBER:	45682-E
DESIGNED BY:	KML
DRAWN BY:	KML
FIELD CHECK:	
APPROVED:	JJD

SHEET TITLE:

BUILDING 73 - ELECTRICAL LIGHTING PLAN

DRAWING NUMBER:

E-2201

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-ELEC22-BLDG-73-CENTRAL.rvt
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36x24 PLOT SHEET

1 BUILDING 73 - ELECTRICAL FIRE ALARM SYSTEMS PLAN

1/8" = 1'-0"

0' 4' 8' 16'

GENERAL NOTES:

1. REFER TO DRAWING E-0001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. PROVIDE FIRE ALARM ADDRESSABLE INITIATING AND ANNUNCIATION DEVICES IN THE RENOVATED AREAS AND CONNECT TO FACP LOCATED IN VESTIBULE 101. UTILIZE EXISTING FIRE ALARM CIRCUITS SAVED DURING DEMOLITION. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS.

CODED NOTES: (#)

1. PROVIDE SIMPLEX 4100ES FACP PANEL IN PLACE OF REMOVED PANEL. RECONNECT ALL EXISTING CIRCUITS. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS. AFTER RE-INSTALLATION OF ALL EXISTING CIRCUITS TO REPLACEMENT FACP TEST/PROGRAM THE COMPLETE SYSTEM IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
2. FLOW SWITCH PROVIDED UNDER P-CONTRACT. PROVIDE CONDUIT, WIRING, AND CIRCUITING.
3. TAMPER SWITCH PROVIDED UNDER P-CONTRACT. PROVIDE CONDUIT, WIRING, AND CIRCUITING.
4. PROVIDE AIR ASPIRATION SMOKE DETECTOR. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS.
5. PROVIDE VESDA MULTI-POINT ADDRESSABLE AIR ASPIRATION SMOKE DETECTION PANEL. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS.

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
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STATE OF NEW YORK · JOHN J. DELABRUERE · LICENSED PROFESSIONAL ENGINEER · 089569

REGISTRATION EXPIRES: 10/31/2025

PROJECT NORTH

CONTRACT:

ELECTRICAL

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATES OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM 2
	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-E
DESIGNED BY:	KML
DRAWN BY:	KML
FIELD CHECK:	
APPROVED:	JJD

SHEET TITLE:
BUILDING 73 - ELECTRICAL FIRE ALARM SYSTEMS PLAN

DRAWING NUMBER:
E-2302

SHEET: OF

Autodesk Docs://45682 Industry 72_73_74/080679-ELEC22-BLDG-73-CENTRAL.rvt
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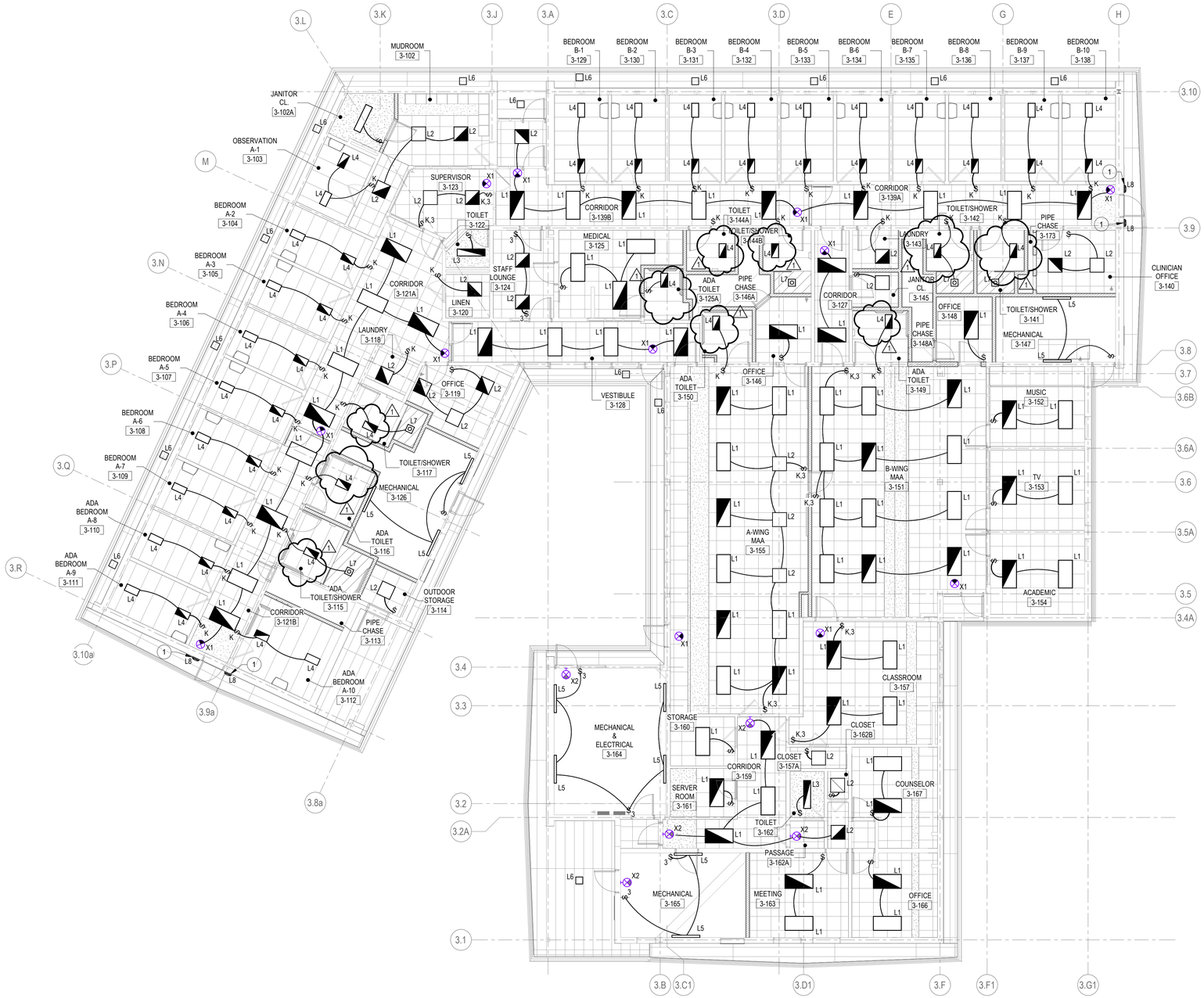

1 BUILDING 74 - ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING E-3501 FOR SCHEDULES.
2. COORDINATE WORK ON THIS DRAWING WITH ARCHITECTURAL DRAWINGS FOR EXTENT OF NEW WALL AND CEILING WORK.
3. CONNECT EMERGENCY AND EXIT LIGHTS TO THE SOURCE SIDE LIGHTING SWITCH.
4. UTILIZE EXISTING LIGHTING CIRCUITS SAVED DURING REMOVALS. EXTEND CIRCUITS WHERE NECESSARY.
5. PROVIDE LEVITON 1221-2KL KEYED SWITCH, OR APPROVED EQUAL. PROVIDE KEYED SWITCHES THAT ARE COMPATIBLE WITH WS-35 KEYS. THIS NOTE APPLIES TO ALL KEYED SWITCHES.
6. DO NOT WIRE NIGHT LIGHTS TO SWITCHES. WIRE ALL NIGHT LIGHTS DIRECTLY TO SOURCE.
7. WIRING INDICATES LIGHTING CONTROLS ONLY.
8. CIRCUIT LIGHT FIXTURES WITH NO SWITCH DIRECTLY TO SOURCE PANEL. THESE LIGHT FIXTURES ARE INTENDED TO REMAIN ON AT ALL TIMES.

CODED NOTES: (#)

1. MOUNT LIGHT FIXTURE 10'-0" ABOVE FINISHED GRADE.

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

UNIFORM CODE STATEMENT:
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STATE OF NEW YORK · JOEY V. DELABRUERE · 089569 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 10/31/2025

PROJECT NORTH

CONTRACT:

ELECTRICAL

TITLE:
PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM 2
	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-E
DESIGNED BY:	KML
DRAWN BY:	KML
FIELD CHECK:	
APPROVED:	JJD

SHEET TITLE:

BUILDING 74 - ELECTRICAL LIGHTING PLAN

DRAWING NUMBER:

E-3201

SHEET: OF

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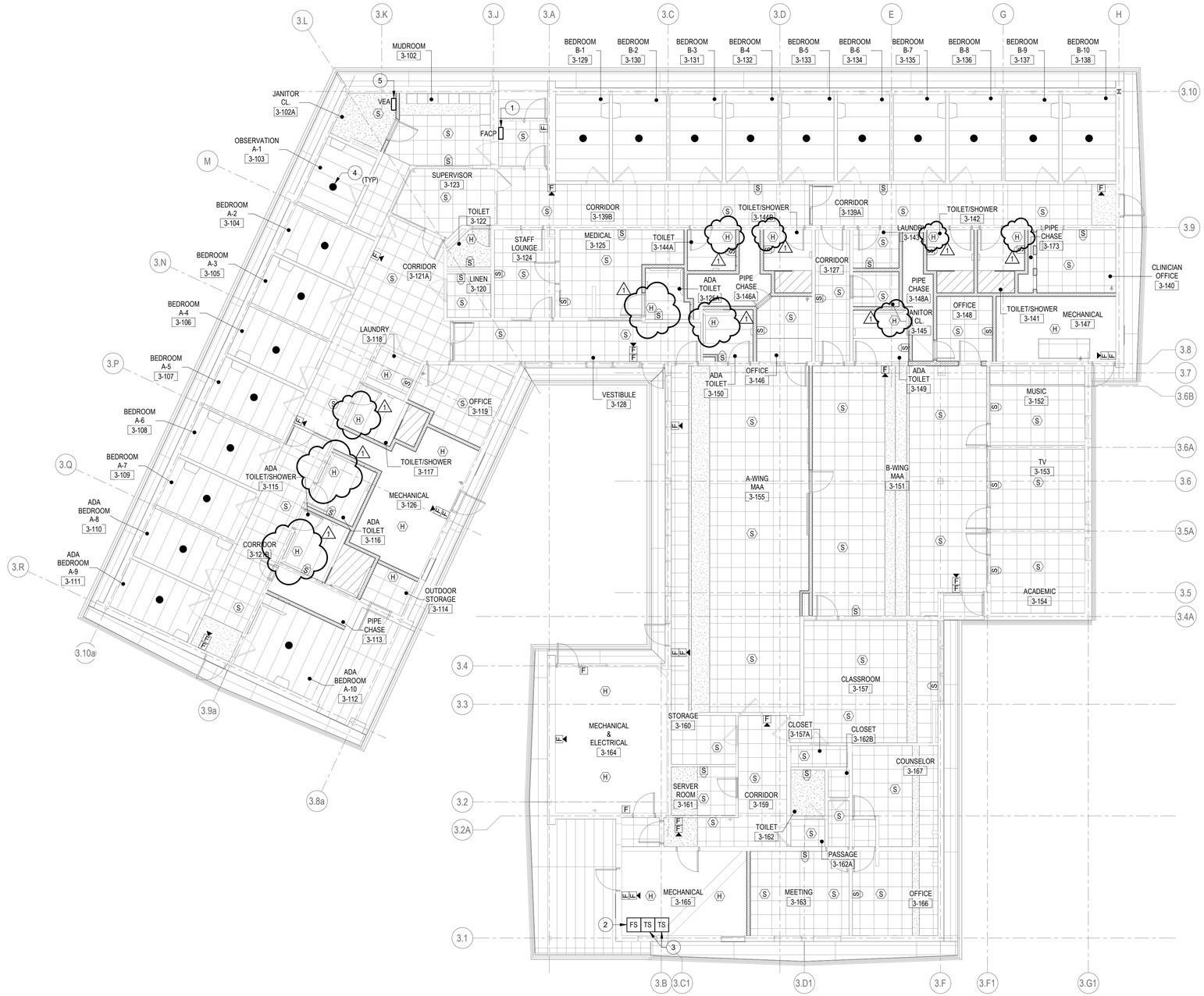

1 BUILDING 74 - ELECTRICAL FIRE ALARM PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO DRAWING E-0001 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. PROVIDE FIRE ALARM ADDRESSABLE INITIATING AND ANNUNCIATION DEVICES IN THE RENOVATED AREAS AND CONNECT TO FACP LOCATED IN VESTIBULE 101. UTILIZE EXISTING FIRE ALARM CIRCUITS SAVED DURING DEMOLITION. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS.

CODED NOTES: (#)

1. EXISTING FIRE ALARM PANEL (FACP) SIMPLEX 4100ES TO REMAIN.
2. FLOW SWITCH PROVIDED UNDER P-CONTRACT. PROVIDE CONDUIT, WIRING, AND CIRCUITING.
3. TAMPER SWITCH PROVIDED UNDER P-CONTRACT. PROVIDE CONDUIT, WIRING, AND CIRCUITING.
4. PROVIDE AIR ASPIRATION SMOKE DETECTOR. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS.
5. PROVIDE VESDA MULTI-POINT ADDRESSABLE AIR ASPIRATION SMOKE DETECTION PANEL. REFER TO DIV.1 SECTION 012100 FOR ALLOWANCES DETAILS.

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 0021745

CHA

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STATE OF NEW YORK · JONY J. DELABRUERE · 089569 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 10/31/2025

PROJECT NORTH

CONTRACT:

ELECTRICAL

TITLE:

PROVIDE BEDROOM AND BATHROOM UPGRADES, BUILDINGS 72, 73 AND 74

LOCATION:

INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY 14543

CLIENT:

NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	07/11/2025	ADDENDUM 2
	11/20/2024	BID SUBMISSION

PROJECT NUMBER:	45682-E
DESIGNED BY:	KML
DRAWN BY:	KML
FIELD CHECK:	
APPROVED:	JJD

SHEET TITLE:

BUILDING 74 - ELECTRICAL FIRE ALARM SYSTEMS PLAN

DRAWING NUMBER:

E-3302

SHEET: OF

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NEW YORK STATE OF OPPORTUNITY. Office of General Services

Design and Construction
Division of Construction, 35th Floor, Corning Tower
The Governor Nelson A. Rockefeller Empire State Plaza
Albany, New York 12242
Phone: (518) 474-0331 FAX: (518) 474-8201

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

FACILITY: Industry Limited Secure Center, Buildings 72,73,74

CONTRACTOR:

PROJECT MANAGER: Cara Reinoehl

DESIGN CONSULTANT: CHA Consulting, Inc.

ENGINEER-IN-CHARGE:

LEGEND

PACK: SUBMITTAL PACKAGE

SD: SHOP DRAWINGS

PD: PRODUCT DATA

EPD: ENVIRONMENTAL PRODUCT DECLARATION

SAM: SAMPLES

QCS: QUALITY CONTROL SUBMITTALS

LEED: LEED SUBMITTALS

CCS: CONTRACT CLOSEOUT SUBMITTALS

SUBMITTAL REVIEW RESPONSIBILITY:
F: OGS FIELD OFFICE
F/O: OGS FIELD OFFICE / OFFICE (ALBANY)
D: CONSULTANT / DESIGNER
S: OGS SCHEDULING DEPARTMENT
RSM: Regional Safety Manager

INSTRUCTIONS TO THE CONTRACTOR

1. Refer to **Section 013300 Submittals** of the Project Manual for general requirements regarding submittals and to **Section 017716 - CONTRACT CLOSEOUT** for project closeout submittals.
2. Refer to Sections of the specifications indicated herein for details of the requirements for each submittal listed.
3. Indicate in the rows (spaces) following each item:
a. Critical submittals and long lead items (mark with an 'X'). Some critical submittals may already be identified by the design team. Confirm that these are critical submittals.
b. The date the item will be submitted, and date approval is required (allow at least 3 weeks), and the date delivery of the material or equipment is necessary for completion of the work in accordance with the Progress Schedule. The date entered for the submittal is the last date a substitution will be considered. Proposed substitutions must be made prior to the date entered if more than one substitution is to be submitted for approval. Spaces which contain N/A do not require dates.
4. An example of a Submittal Transmittal (BDC-42) can be located at: http://www.ogs.ny.gov/BU/DC/forms/ContractorConstForms.asp
5. Submit Contract Closeout Submittals (CCS) prior to final inspection.

INSTRUCTIONS TO THE CONSULTANT / DESIGNER

1. Cut and paste required information from each Division (Div.X) tab and place in the S.O.S. tab.
2. Delete Division (Div.X) tabs after the S.O.S. tab has been in-filled.
3. Indicate F, F/O or D in column E. Items in Div.1 have defaults that can be modified as necessary.
4. Indicate items that are critical submittals in column F.
Note:
The following list of submittals is furnished for your convenience in

Type text here

NEW YORK STATE OF OPPORTUNITY. Office of General Services

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Albany, New York 12242
Phone: (518) 474-0331 FAX: (518) 474-8201

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

	scheduling submittals. The list is not warranted to be complete and does not take precedence over the contract documents. Enter additional submittals, as required and modify this schedule to the specific project. This S.O.S. will be used to populate the submittals website log.

Type text here

NEW YORK STATE OF OPPORTUNITY. Office of General Services

Design and Construction
Division of Construction, 34th Floor, Corning Tower
The Governor Nelson A. Rockefeller Empire State Plaza
Albany, New York 12242
Phone: (518) 474-0331 FAX: (518) 474-8201

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
007213			**GENERAL CONDITIONS**					
007213		**PD**	ARTICLE 6: Designate in writing competent supervision and/or management representatives as required - include contact number in case of an emergency after work hours, including weekends and holidays (see 011000 Summary of Work)	F				
007213		**PD**	ARTICLE 8: Permits and licenses	F				
011100			**SAFETY**					
011100		**QCS**	Site Specific Safety Plan	RSM				
011100		**QCS**	Employee Safety Orientation Training and Documentation					
013113			**PROJECT SCHEDULE**					
013113			Baseline Schedule	S				
013300			**SUBMITTALS**					
013300		**PD**	Schedule of Submittals Acknowledgement	F	X			
013300		**QCS**	Submittal Coordinator Qualifications	F/O	X			
014339			**MOCKUP REQUIREMENTS**					
014339		**SD**	Mockup Plan: Copy of proposed plan	F				
017716			**CONTRACT CLOSEOUT**					
017716		**CCS**	Project Record Documents	F				
017716		**CCS**	Operation and Maintenance	F				
017716		**CCS**	Warranties	F				
017716		**CCS**	Spare Parts and Maintenance Materials	F				
028213			**ASBESTOS ABATEMENT**					
028213		**PD**	Disposal Bags	D				
028213		**PD**	Fireproofing	D				
028213		**PD**	Glove Bags	D				
028213		**PD**	Negative Air Pressure Units	D				
028213		**PD**	Plastic Sheets	D				
028213		**PD**	Respirators	D				
028213		**PD**	Vacuum Cleaners	D				
028213		**QCS**	Asbestos Site Specific Variance Submittals; if a site specific variance is sought submit the following: One copy of the completed DOSH-751 and DOSH-465 forms	D				
028213		**QCS**	Asbestos Site Specific Variance Submittals; if a site specific variance is sought submit the following: One copy of the New York State Department of Labor site specific variance decision.	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
028213		**QCS**	Notification Compliance Data	D				
028213		**QCS**	Asbestos Removal Company Data	D				
028213		**QCS**	Asbestos Worker Certification Data	D				
028213		**QCS**	Work Plan	D				
028213		**QCS**	Waste Transporter Permit	D				
028213		**QCS**	NYS Part 360 Landfill Permit	D				
028213		**QCS**	Negative Air Pressure Equipment	D				
028213		**QCS**	Asbestos Work Closeout Submittals (waste shipment records and disposal site receipts).	D				
028213		**CCS**	Daily Log	F				
028213		**CCS**	Personal Air Monitoring Data	F				
028304			**HANDLING OF LEAD CONTAINING MATERIALS**					
028304		**QCS**	Lead Handling Worker's Qualifications Data	D				
028304		**QCS**	Lead Handling Detailed Work Plan	D				
028304		**QCS**	Lead Handling Waste Transporter Permit	D				
028304		**QCS**	Operation and Maintenance Data	D				
028304		**CCS**	Assessment Report compiled by a testing lab	F				
028304		**CCS**	Disposal Site Receipts	F				
028416			**HANDLING OF BALLASTS CONTAINING POLYCHLORINATED BIPHENYLS AND LAMPS CONTAINING MERCURY**					
028416		**QCS**	Work Plan	D				
028416		**QCS**	Waste Transporter Permit	D				
028416		**QCS**	Disposal Site or Recycling Site Permit	D				
028416		**CCS**	Disposal Site Receipts	F				
028433			**ABATEMENT OF PCB CONTAINING CAULK-SEALANT MATERIALS**					
028433		**PD**	Disposal Drums	D				
028433		**PD**	Respirators	D				
028433		**PD**	Vacuum Cleaners	D				
028433		**PD**	Plastic Sheets	D				
028433		**QCS**	Worker's Qualifications Data	D				
028433		**QCS**	Work Plan	D				
028433		**QCS**	Waste Transporter Permit	D				
028433		**CCS**	Disposal Site Receipts	F				
028533			**MOLD REMEDIATION AND DISPOSAL**					
028533		**PD**	Air Filtration Unit					
028533		**PD**	Disposal Bags					
028533		**PD**	HEPA Filters					
028533		**PD**	Polyethylene Sheets					
028533		**PD**	Plywood					
028533		**PD**	Sealants					
028533		**PD**	Studs and Partitions					

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
028533		**PD**	Respirators					
028533		**PD**	Vacuum Cleaners					
028533		**PD**	Cleaning Solutions					
028533		**PD**	Encapsulants/Sealants					
028533		**QCS**	Work Plan					
028533		**QCS**	Mold Remediation Contractor's Qualifications Data					
028533		**QCS**	Mold Abatement Worker's Qualifications Data					
028533		**QCS**	Testing Lab Qualifications Data					
028533		**QCS**	Waste Transporter Permit					
028533		**QCS**	Landfill Permit					
028533		**QCS**	MSDS Sheets					
028533		**QCS**	Disposal Site Receipts					
028533		**QCS**	Assessment Report					
028533		**QCS**	Certificates					
028533		**CCS**	Operation and Maintenance Data	F				
028533		**CCS**	Copy of Daily Project Log	F				
028533		**CCS**	Air Monitoring Data	F				
028533		**CCS**	Bulk Sampling Data	F				
033001			**CAST-IN-PLACE CONCRETE BROADSCOPE SHORT VERSION**					
033001		**PACK**	Submit product data for design mix(es) and materials for concrete specified below at the same time as a package	D				
033001		**SD**	Placing drawings for bar reinforcement	D				
033001		**PD**	Concrete design mix(es)	D				
033001		**PD**	Portland Cement	D				
033001		**PD**	Fly Ash	D				
033001		**PD**	Air-entraining Admixture	D				
033001		**PD**	Water-reducing Admixture	D				
033001		**PD**	Aggregates	D				
033001		**PD**	Chemical Curing and Anti-Spalling Compound	D				
033001		**PD**	Bonding Agent (Adhesive)	D				
033001		**PD**	Expansion Joint Fillers	D				
033001		**EPD**	Environmental Product Declaration	F				
033001		**QCS**	Certificates: Affidavit required under Quality Assurance Article	F				
035400			**UNIT MASONRY**					
035400	**1.03**	**PD**	Manufacturer's catalog sheets, specifications, and installation instructions for each item specified.	D				
035400	**1.03B**	**EPD**	Environmental Product Declaration	D				
035400	**1.03C**	**QCS**	Test Sample: Provide field applied 5' x 5' x contract thickness sample of topping.	F				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
035400	1.04A	QCS	~~Material Container Labels: Material containers shall~~ bear the manufacturer's label indicating manufacturer's name, trade name of product, lot number, self life of product, and mix ratio (if applicable).	F				
042000			**UNIT MASONRY**					
042000	2.03A	SD	Concrete Masonry Lintels	D				
042000	2.04A	PD	Mortar: Portland Cement	D				
042000	2.04D	PD	Mortar: Masonry Cement:	D				
042000	2.04E	PD	Mortar: Lime	D				
042000	2.04F	PD	Mortar: Sand	D				
042000	2.04B	PD	Mortar: Color Pigments	D				
042000	2.05A	PD	Masonry Wall Reinforcement	D				
042000	1.02C1	SAM	Brick	D				
042000	1.02C2	SAM	Existing Brick to be Matched	D				
042000	1.02C3	SAM	Concrete Masonry Units	D				
042000	1.02C4	SAM	Masonry Wall Reinforcement	D				
042000	2.06A1	QCS	Test Reports: Brick	D				
042000	2.06A2	QCS	Test Reports: Concrete Masonry Units	D				
042200			**CONCRETE UNIT MASONRY**					
042200		SD	Placing Drawings for Bar Reinforcement	D				
042200		PD	Masonry Wall Reinforcement	D				
042200		PD	Bar Reinforcement	D				
042200		PD	Asphalt Felt	D				
042200		QCS	Concrete Masonry Unit Test Reports	D				
042200		QCS	Bar reinforcement manufacturer's certification	D				
051200			**STRUCTURAL STEEL (Allowable Stress Design)**					
051200		SD	Initial Submission: Drawings of proposed job standards for shop and field connections, including standard and special connections, complying with the requirements	D				
051200		SD	Initial Submission: Erection drawings indicating sizes, weights, and locations of all structural members.	D				
051200		SD	Initial Submission: Anchor bolt and base plate plans	D				
051200		SD	Subsequent Submission: Index sheets and revised erection drawings to which erection marks have been added	D				
051200		SD	Subsequent Submission: Detail drawings of all structural members	D				
051200		PD	Shop paint	D				
051200		EPD	Environmental Product Declaration	F				
051200		QCS	Test Reports: Steel manufacturer's mill test reports	D				
051200		QCS	Test Reports: Bolt manufacturer's test reports	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
051200		QCS	Certificates: Submit evidence, in triplicate, of steel material compliance with this Specification.	D				
051200		QCS	Fabricator's and Erector's Qualifications Data	D				
051200		QCS	Welding Procedure Specifications	F				
051200		QCS	Welder's Certification	F				
054000			COLD-FORMED METAL FRAMING					
054000		SD	Erection and fabrication drawings for all load carrying metal framing and accessories	D				
054000		PD	Framing (including Studs, Tracks, Joists, Perimeter Channel, and Rafters)	D				
054000		PD	Bracing, Bridging, Strapping, Reinforcement, Stiffeners, Plates, Gussets, Clip Angles, and Hangers	D				
054000		PD	Power-Actuated Fasteners	D				
054000		PD	Self-Drilling Fasteners	D				
054000		PD	Galvanizing	D				
054000		PD	Galvanizing Repair Paint	D				
054000		EPD	Environmental Product Declaration	F				
054000		QCS	Certificates: Affidavit required under Quality Assurance Article.	F				
055000			METAL FABRICATIONS (Broadscope)					
055000	1.03A1	SD	Application to Project: Indicate shop and field welds by standard AWS welding symbols in accordance with AWS A2.4.	D				
055000	1.03A2	SD	Stainless Steel Shower Panels: Submit shop drawings for walls and ceilings including anchorage.	D				
055000	2.04	PD	Loose Lintels	D				
055000	2.05	PD	Shower Panels (SSP-1)	D				
055000	1.03B	EPD	Environmental Product Declaration	D				
061000			ROUGH CARPENTRY					
061000	1.02A1	QCS	Certificates: Pressure Treatment	D				
061000	1.02A2	QCS	Certificates: Fire-Retardant Treatment	D				
062000			FINISH CARPENTRY					
062000	1.03A	SD	Fabrication Details and Connections	D				
062000	3.03F1	SAM	Transparent Finish	D				
064000			ARCHITECTURAL WOODWORK					
064000	1.03A	SD	Fabrication details and Connections	D				
064000	2.01B	PD	Stainless Steel Countertop	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

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064000	**2.01B2**	**PD**	Sound Deading Material on Underside	D				
066000			**SOLID PLASTIC FABRICATIONS**					
066000	**1.01B**	**SD**	Fabrication Details and Connection	D				
066000	**2.02A**	**PD**	Solid Plastic Panels, Polycarbonate Shower Panels	D				
066000	**1.01D1**	**SAM**	Solid Plastic Panels	D				
066000	**1.01D2**	**SAM**	Polycarbonate Shower Panels	D				
066000	**1.01E**	**QCS**	Qualifications Certificates	F				
066000	**1.01F**	**CCS**	Maintenance Data: Deliver 2 copies	F				
070150			**ROOF SYSTEM**					
070150	**1.02C**	**PACK**	specified below at the same time in one complete	D				
070150	**1.02C1**	**PD**	details for the Work of this Section	D				
070150	**1.02C2**	**PD**	All materials required for the the Work of this Section	D				
070150	**1.03A**	**QCS**	Applicator's Certification	D				
070150	**1.03B**	**QCS**	Material Certification	D				
070150	**1.03C**	**QCS**	Warranty Certification	D				
072100			**BUILDING INSULATION**					
072100	**2.01A**	**PD**	Rigid (Board) Insulation: Extruded polystyrene thermal insulation boards; ASTM C 578, Type IV, manufactured with CFC and HCFC-free blowing agents.	D				
072100	**2.01B**	**PD**	Mineral Fiber Insulation: Glass or other inorganic fibers and resinous binders formed into flexible blankets, batts or rolls; ASTM C 665.	D				
072100	**2.01C**	**PD**	Mechanical Anchors	D				
072100	**1.01B**	**SAM**	Blanket, Batt or Roll	D				
072600			**VAPOR RETARDER UNDER SLABS ON GRADE**					
072600	**2.01**	**PD**	Companies	D				
072600	**2.02A**	**PD**	Polyethylene or polyolefin - Puncture Resistance	D				
072600	**2.02B**	**PD**	Pressure-Sensitive Tape/Adhesive	D				
072600	**2.02C**	**PD**	Pipe Boots	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

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072600	**1.03B1**	**SAM**	Vapor Barrier Material	D				
072600	**1.03B2**	**SAM**	Pressure-Sensitive Tape	D				
074633			**VINYL SIDING**					
074633	**1.03A**	**PD**	Construction details, material descriptions, dimensions of individual components and profiles, finishes.	D				
074633	**2.02**	**PD**	Vinyl Siding	D				
074633	**2.03**	**PD**	Vinyl Soffit	D				
074633	**2.04**	**PD**	Accessories	D				
074633	**1.03B**	**SAM**	panel	D				
074633	**1.03C**	**SAM**	Color	D				
074633	**1.09**	**CCS**	Maintenance	F				
074633	**1.08**	**CCS**	Warranty	F				
074646			**MINERAL FIBER CEMENT SIDING**					
074646	**2.01**	**PD**	Manufacturers/Companies	D				
074646	**2.02A**	**PD**	ash, additives, and powdered rejects. Wood grains	D				
074646	**2.03**	**PD**	Fiber Cement Soffit	D				
074646	**2.04A**	**PD**	Siding Accessories	D				
074646	**2.04B**	**PD**	Decorative Accessories	D				
074646	**2.04C**	**PD**	Colors for Decorative Accessories	D				
074646	**2.04D**	**PD**	Fasteners	D				
074646	**1.03B1**	**SAM**	Initial Selection for Siding	D				
074646	**1.03B1**	**SAM**	Initial Selection for soffit	D				
074646	**1.03B1**	**SAM**	Initial Selection for Accessories	D				
074646	**1.03B2**	**SAM**	required	D				
074646	**1.03C**	**SAM**	Color for siding	D				
074646	**1.03D1**	**QCS**	Product Certificates	D				
074646	**1.03D2**	**QCS**	Manufacturers Field Reports	D				
074646	**1.03D3**	**QCS**	Installer's Qualifications Data	D				
074646	**1.03D4**	**QCS**	Company Field Advisor Data	D				
074646	**1.09B**	**CCS**	Maintenance Data - 2 Copies	F				
074646	**1.08A**	**CCS**	Warranty	F				
076000			**FLASHING AND TRIM**					
076000	**1.03A**	**SD**	Show the manner of forming, jointing and securing the metal flashings and trim	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

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076000	**2.02A**	**PD**	Nails	D				
076000	**2.02B**	**PD**	Screws, Bolts and other Fastening Accessories	D				
076000	**2.02C**	**PD**	Anchors	D				
076000	**1.04B**	**SAM**	Materials for Flashings	D				
078400			**FIRESTOPPING**					
078400	**1.04A**	**PACK**	time as a package: Product Data, Samples, Quality	D				
078400	**1.03A**	**PD**	Firestopping Device and Material	D				
078400	**1.04E**	**PD**	Firestopping Schedule	D				
078400	**2.01A**	**PD**	Materials, And Fill, Void or Cavity Materials	D				
078400	**2.01B**	**PD**	Accessories	D				
078400	**2.01C**	**PD**	Identification Labels	D				
078400	**1.04C**	**SAM**	Each Product requested	D				
078400	**1.04D1**	**QCS**	Design Data	D				
078400	**1.04D2**	**QCS**	Installer's Qualifications Data	D				
078400	**1.04D3**	**QCS**	Company Field Advisor Data	D				
079200			**JOINT SEALERS**					
079200	**2.01A**	**PD**	Type 1 Sealant	D				
079200	**2.01B**	**PD**	Type 2 Sealant	D				
079200	**2.01C**	**PD**	Type 3 Sealant	D				
079200	**2.01D**	**PD**	Type 6C Sealant	D				
079200	**2.01E**	**PD**	Type 6D Sealant	D				
079200	**2.01F**	**PD**	Sealant Colors	D				
079200	**2.02A**	**PD**	Cork Joint Filler	D				
079200	**2.02B**	**PD**	Expanded Polyethylene Joint Filler	D				
079200	**2.03A**	**PD**	Joint Primer/Sealer/Conditioner	D				
079200	**2.03B**	**PD**	Backer Rod	D				
079200	**2.03C**	**PD**	Bond Breaker Tape	D				
079200	**2.03D**	**PD**	Cleaning Solvents	D				
079200	**1.02B1**	**SAM**	Sealant	D				
079200	**1.02B2**	**SAM**	Joint Fillers	D				
079200	**1.02B3**	**SAM**	Joint Primer/Sealer/Conditions	D				
079200	**1.02B4**	**SAM**	Backer Rods	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

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079200	**1.02B5**	**SAM**	Bond Breaker Tape	D				
079200	**1.02C1**	**QCS**	Installer's Qualifications Data	D				
079200	**1.02C2**	**QCS**	Company Field Advisor Data	D				
081102			**STEEL DOORS AND FRAMES**					
081102	**1.04B1a**	**SD**	Quality Assurance Package	D				
081102	**1.04B**	**SD**	Package	D				
081102	**1.04B1b**	**SAM**	Door and Frame Samples	D				
081119			**STAINLESS STEEL DOORS AND FRAMES**					
081119	**1.04B1a**	**SD**	Quality Assurance Package	D				
081119	**1.04B**	**SD**	Package	D				
081119	**1.04B1b**	**SAM**	Door and Frame Samples	D				
083113			**ACCESS DOORS**					
083113	**2.01**	**PD**	Non-Fire Rated Access Doors	D				
083113	**2.02**	**PD**	Fire Rated Access Doors	D				
083323			**ROLLING DOORS**					
083323	**1.03A**	**SD**	Application to Project	D				
083323	**2.01A**	**PD**	Service Counter Door and assembly components	D				
083323	**2.07A**	**PD**	Masterkey Cylinder Lock	D				
083323	**1.03C1a**	**SAM**	Polyester Powder Coat	D				
083323	**1.03C1b**	**SAM**	Aluminum Powder Coat	D				
083323	**1.03D1**	**CCS**	Operation and maintenance data.	F				
083323	**1.03D2**	**CCS**	Replacement parts list	F				
085662			**STEEL DETENTION WINDOWS**					
085662	**1.06B**	**SD**	Fabrication details and connections	D				
085662	**1.04A**	**PD**	Type 3B Detention Windows	D				
085662	**1.06E1**	**SAM**	screen (each Type)	D				
085662	**1.06E2**	**SAM**	Hardware	D				
085662	**1.06E3**	**SAM**	Color Samples for Factory Prefinished Windows	D				
085662	**1.06F3**	**QCS**	Test Reports: Certified air leakage and water penetration test reports for each type of window unit required	D				
085662	**1.06G1**	**CCS**	Operation and Maintenance Data - 2 copies	F				

SCHEDULE OF SUBMITTALS

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087100			**DOOR HARDWARE**					
087100	**1.07E**	**SD**	Full detailed drawings including diagrams for power, signal, and control wiring; and details of interface of electrified door hardware and building safety and security systems.	D				
087100	**1.04D2**	**SAM**	For each exposed product in each finish specified, in manufacturer's standard size.	D				
087100	**1.04D2**	**SAM**	Initial Selection: For each type of exposed finish	D				
087100	**1.04D2**	**SAM**	Verification: For each type of exposed product, in each finish specified.	D				
087100	**2.03**	**PD**	Hinges	D				
087100	**2.03B**	**PD**	Continuous Hinges	D				
087100	**2.03D**	**PD**	Mechanical Locks And Latches	D				
087100	**2.04**	**QCS**	Door Hardware Schedule	D				
087100	**2.05B**	**QCS**	Keying Schedule	D				
087100	**1.04D**	**QCS**	Qualification Data	D				
087100	**1.04D3**	**QCS**	Product Certificates	D				
087100	**1.07I**	**QCS**	Product Test Reports	D				
087100	**3.03A**	**QCS**	Field quality-control reports.	D				
087100	**1.04D3a**	**CCS**	Maintenance Data	F				
087100	**1.04D2**	**CCS**	Schedules	F				
088100			**GLASS AND GLAZING**					
088100	**2.01A**	**PD**	Type G Glass	D				
088100	**2.03A**	**PD**	Type 14 Glazing Material	D				
088100	**2.03C**	**PD**	Spacers	D				
088100	**2.03D**	**PD**	Compressible Filler Rod	D				
088100	**1.03B**	**EPD**	Environmental Product Declaration	D				
088100	**1.03C1**	**SAM**	specified	D				
088100	**1.03C2**	**SAM**	Setting Blocks	D				
088100	**1.03D1**	**QCS**	substantiate glass or glass assembly compliance with	D				
088100	**1.03D2**	**QCS**	Certificates: Affidavit required under Quality Assurance Article	D				
088853			**SECURITY GLAZING**					
088853	**2.03A**	**PD**	Type S-1 Sheet	D				
088853	**2.03B**	**PD**	Type S-4 Sheet	D				
088853	**2.04A**	**PD**	Type S-10 Sheet	D				

SCHEDULE OF SUBMITTALS

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088853	**2.05A**	**PD**	Setting Blocks	D				
088853	**2.05B**	**PD**	Spacer Shims	D				
088853	**2.05C**	**PD**	Glazing Tape	D				
088853	**2.05D**	**PD**	Glazing Sealant	D				
088853	**2.05E**	**PD**	Glazing for Type S-10 Sheet in Fixed Windows	D				
088853	**2.05F**	**PD**	Sealant Colors	D				
088853	**2.05G**	**PD**	Cleaners, Primers, and Sealers	D				
088853	**1.04B**	**EPD**	Environmental Product Declaration	D				
088853	**1.04D1**	**SAM**	specified	D				
088853	**1.04D2**	**SAM**	Setting Blocks	D				
088853	**1.04D3**	**SAM**	Glazing Tape	D				
088853	**1.04D4**	**SAM**	Color samples for Glazing Materials	D				
088853	**1.04D5**	**SAM**	Spacer Shims	D				
088853	**1.04E1**	**QCS**	Test Reports - Assembly Compliance	D				
088853	**1.04E2**	**QCS**	Certificate - Quality Assurance Article	D				
088853	**1.04E3**	**QCS**	Manufacturer's Qualifications Data	D				
088853	**1.04E4**	**QCS**	Installer's Qualifications Data	D				
088853	**1.04E5**	**QCS**	Compatibility Certification	D				
088853	**1.04F1**	**CCS**	Maintenance Data - 2 copies	F				
088853	**1.08A**	**CCS**	piece) of each size of Type S-4 Sheet required for the	F				
089100			**STATIONARY METAL WALL LOUVERS**					
089100	**1.02A**	**SD**	Work.	D				
089100	**2.01**	**PD**	Steel Louvers	D				
089100	**2.02**	**PD**	Louver Screens	D				
092116			**GYPSUM BOARD SYSTEMS**					
092116	**2.01**	**PD**	Framing	D				
092116	**2.02**	**PD**	Gypsum Board	D				
092116	**2.02A**	**PD**	Moisture Resistant Gypsum Board	D				
092116	**2.02B**	**PD**	Gypsum Sheathing Board	D				
092116	**2.02C**	**PD**	thick	D				
092116	**2.03A**	**PD**	Steel Drill Screws	D				
092116	**2.03B**	**PD**	Laminating Adhesive	D				
092116	**2.03C**	**PD**	Expansion Anchors	D				
092116	**2.03D**	**PD**	Toggle Bolts	D				
092116	**2.03E**	**PD**	Self Threading Masonry Screws	D				
092116	**2.04A**	**PD**	Interior Trim	D				
092116	**2.05A**	**PD**	Joint Tapes	D				
092116	**2.05B**	**PD**	Joint Compound	D				
092116	**1.03B1**	**SAM**	Steel Framing	D				
092116	**1.03B2**	**SAM**	Gypsum Board	D				

SCHEDULE OF SUBMITTALS

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092116	**1.03B3**	**SAM**	Fasteners	D				
092213			**NON-LOAD BEARING FRAMING AND FURRING**					
092213	**1.02A1**	**PD**	Studs, Tracks, Furring	D				
092213	**1.02A2**	**PD**	Fasteners	D				
092213	**1.02B**	**EPD**	Environmental Product Declaration	D				
092214			**FURRING FOR GYPSUM BOARD CEILINGS**					
092214	**1.04A1**	**PD**	Hat Channel Bridging	D				
092214	**1.04A2**	**PD**	Carrying Channels	D				
092214	**1.04A3**	**PD**	Hangers	D				
093013			**CERAMIC TILE**					
093013	**2.01A**	**PD**	Unglazed Ceramic Mosaic Tile	D				
093013	**2.02A**	**PD**	Latex-Portland Cement Mortar	D				
093013	**2.03A**	**PD**	Latex-Portland Cement Grout	D				
093013	**2.01B**	**PD**	Colors	D				
093013	**1.02B1**	**SAM**	Unglazed Ceramic Mosaic Tile	D				
093013	**1.02B1**	**SAM**	Latex-Portland Cement Grout	D				
093013	**1.02B2**	**SAM**	Tile Colors	D				
093013	**1.02C1**	**QCS**	Tile Grade Certificates - each shipment	D				
093013	**1.02C2**	**QCS**	Installer's Qualification Data	D				
093013	**1.02D1**	**CCS**	Maintenance Data	F				
093013	**1.06A**	**CCS**	Extra Materials: Furnish extra tile, equal to 3 percent of the tile installed, of each type, composition, pattern, size and color of tile required. Also furnish a proportionate number of trim units	F				
095324			**SUSPENDED METAL PANEL CEILING SYSTEM**					
095324	**1.05B**	**PACK**	Submit the shop drawings, product data, samples, and quality control submittals specified below at the same time as a package	D				
095324	**1.05C**	**SD**	Reflected Ceiling plans and details	D				
095324	**2.01A**	**PD**	Ceiling Panels	D				
095324	**2.01B**	**PD**	Acoustical Material	D				
095324	**2.02A1**	**PD**	Main Runners and Cross Tees	D				
095324	**2.02A2**	**PD**	Hanger Wire	D				
095324	**2.02A3**	**PD**	Hanger Clips	D				
095324	**2.02A4**	**PD**	Compression Struts	D				
095324	**2.02A5**	**PD**	Wall Moulding	D				
095324	**2.02A6**	**PD**	Fasteners	D				
095324	**1.05E**	**SAM**	Ceiling panel and its suspension system	D				
095324	**1.05F**	**QCS**	Manufacturer's Certification	D				
095324	**1.05G**	**CCS**	Maintenance Instructions	F				
095324	**1.09A**	**CCS**	Extra Materials: Furnish one carton of each size, texture, and type of acoustic units required.	F				
095753			**METAL PLANK SECURITY CEILING SYSTEM**					
095753	**2.02A1**	**PD**	Metal Plank Ceiling- MPCS-2	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

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095753	**2.02A2**	**PD**	Metal Plank Suspension - MPCS-2	D				
095753	**2.02A2a**	**PD**	Acoustical Material	D				
095753	**2.02A2c**	**PD**	Access Panels	D				
095753	**2.02A2d**	**PD**	Fasteners	D				
095753	**2.02C1**	**PD**	Metal Plank Ceiling- MPCS-3	D				
095753	**2.02C2**	**PD**	Metal Plank Suspension - MPCS-3	D				
095753	**2.02C2b**	**PD**	Fasteners	D				
095753	**1.05D**	**SAM**	Ceiling Plank and Suspension System- MPCS-2	D				
095753	**1.05D**	**SAM**	Ceiling Plank and Suspension System- MPCS-3	D				
095753	**1.06**	**QCS**	Certificates - Quality Assurance	D				
095753	**1.09**	**CCS**	Warranty	D				
096516			**VINYL TILE FLOORING**					
096516	**2.01A**	**PD**	Vinyl Tile Flooring	D				
096516	**2.01B**	**PD**	Vinyl Base	D				
096516	**2.01F**	**PD**	Underlayment	D				
096516	**2.01G**	**PD**	Flooring Adhesives and Joint Materials	D				
096516	**1.02B1**	**SAM**	Vinyl Tile Flooring	D				
096516	**1.02B2**	**SAM**	Base	D				
096516	**1.02B3**	**SAM**	Color Samples	D				
096516	**1.02C**	**QCS**	Certificates - Quality Assurance Article	D				
096516	**1.02D**	**CCS**	Maintenance Data - 2 copies	F				
096723			**EPOXY RESIN FLOORING**					
096723	**2.01A**	**PD**	Fill	D				
096723	**2.01B**	**PD**	Underlayment	D				
096723	**2.01C**	**PD**	Waterproofing	D				
096723	**2.01E**	**PD**	Primer	D				
096723	**2.01F**	**PD**	Type ECT Flooring and Base	D				
096723	**2.01G**	**PD**	Sealer	D				
096723	**2.01H1**	**PD**	Dividing Strips	D				
096723	**2.01H2**	**PD**	Base Bead	D				
096723	**2.01H3**	**PD**	Flashing	D				
096723	**2.01H4**	**PD**	Extension Collars for Floor Drains	D				
096723	**1.03B1**	**SAM**	Flooring and Base Combination	D				
096723	**1.03B2**	**SAM**	Underlayment Components	D				
096723	**1.03B3**	**SAM**	Liquid Binder for Reinforcement	D				
096723	**1.03B4**	**SAM**	Clear Sealer	D				
096723	**1.03C1**	**QCS**	Test Reports	D				
096723	**1.03C2**	**QCS**	Certificates - Article 3.01	D				
096723	**1.03C3**	**QCS**	Installer's Qualifications Data	D				
096723	**1.03C4**	**QCS**	List of Completed Installations	D				
096723	**1.03D1**	**CCS**	Maintenance Data - 2 copies	F				
097723			**FIBER REINFORCED PLASTIC PANELS/BOARDS**					
097723	**2.01A**	**PD**	Plastic Panels	D				
097723	**2.01B**	**PD**	Accessories and Moldings: One piece extruded vinyl or aluminum	D				
097723	**2.01C**	**PD**	Fasteners	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
097723	**2.01D**	**PD**	Adhesive	D				
097723	**1.03B1**	**SAM**	Plastic Panels and Plastic Boards	D				
097723	**1.03B2**	**SAM**	Accessories and Moldings	D				
097723	**1.03B3**	**SAM**	Fasteners	D				
097723	**1.03B4**	**SAM**	Adhesive	D				
097723	**1.03B5**	**SAM**	Color Samples	D				
097723	**1.04A**	**QCS**	Fabricator's Qualifications Data	D				
097723	**1.03C1**	**CCS**	Maintenance Data - 2 copies	F				
099101			**CONSTRUCTION PAINTING**					
099101	**2.03B1**	**PD**	Paint Type EAL-3: Exterior Acrylic Latex, Gloss Enamel	D				
099101	**2.03C1**	**PD**	Paint Type IAL-2: Interior Acrylic Latex, Eggshell	D				
099101	**2.03C2**	**PD**	Paint Type IAL-3: Interior Acrylic Latex, Semigloss Enamel	D				
099101	**2.03C3**	**PD**	Paint Type IAL-4: Interior Acrylic Latex, Gloss Enamel	D				
099101	**2.03C4**	**PD**	Paint Type ISP: Interior Steel Primer, Flat	D				
099101	**2.03D**	**PD**	Colors	D				
099101	**1.02C**	**SAM**	Finish Paint Samples: Two finish paint samples applied over recommended primers for each substrate to be painted.	D				
099101	**1.02D1**	**QCS**	Test Reports	D				
099101	**1.02D2**	**QCS**	Certificates of Quality Assurance Article	D				
099101	**1.06A1**	**CCS**	Extra Materials: Paint Types IAL-2: Two gallons, each type	F				
099101	**1.06A2**	**CCS**	Extra Materials: Other Paint Types: One gallon, each type.	F				
099659			**HIGH-BUILD GLAZED COATINGS**					
099659	**2.01A**	**PD**	Primers, Sealers, Undercoats	D				
099659	**2.01B**	**PD**	HBGC-3 Coating System	D				
099659	**1.03B**	**SAM**	Samples: Each coating system and color required	D				
099659	**1.03C1**	**QCS**	Test Reports	D				
099659	**1.03C2**	**QCS**	Applicators Qualifications Data	D				
099659	**1.03C3**	**QCS**	Certificates - Quality Assurance Article	D				
099659	**1.07A**	**CCS**	Extra Materials: Furnish one extra gallon of each type and color of coating material specified	F				
101423			**SIGNS**					
101423	**1.02A**	**SD**	Show Fabrication and mounting details	D				
101423	**2.01A**	**PD**	Engraved Stock (ES) Plastic	D				
101423	**2.01B1**	**PD**	Mechanical Mounting (MM)	D				
101423	**2.01B2**	**PD**	Tape Mountin (TM)	D				
101423	**1.02C1**	**SAM**	Full size of each sign type and copy type specified including mounting accessories. T	D				
101423	**1.02C2**	**SAM**	Color Samples	D				
101423	**1.02D1**	**QCS**	Sign Fabricator Qualification Data	D				
102813			**TOILET AND BATH ACCESSORIES**					
102813	**1.02A**	**SD**	Grab Bar Details	D				

SCHEDULE OF SUBMITTALS

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102813	**2.04, 2.05**	**PD**	Mirrors	D				
102813	**2.06**	**PD**	Paper Towel Dispensers - Furface Mounted (PTD-SM)	D				
102813	**2.07**	**PD**	Toilet Tissue Dispensers - Surface Mounted (Folded Tissue Type - TTD-SM)	D				
102813	**2.08**	**PD**	Foam Soap Dispensers - Surface Mounted (FSD-SM)	D				
102813	**2.09**	**PD**	Towel Hooks (TH)	D				
102813	**2.1**	**PD**	Laundry Detergent Dispensers - Surface-Mounted (LDD-SM)	D				
102813	**2.11**	**PD**	Mop and Broom Holders (M & BH)	D				
102813	**2.12**	**PD**	Grab Bars (GB)	D				
102813	**1.02C**	**SAM**	Samples: One full size sample of each product required, unless otherwise specified, complete with mounting devices and fasteners	D				
102813	**1.02D1**	**CCS**	Operation and Maintenance Data	F				
102813	**1.02D2**	**CCS**	Parts lists	F				
102813	**2.03A**	**CCS**	Keys: Furnish minimum of 2 keys and an additional 2 keys for every 6 key operated accessories.	F				
102813	**2.03B**	**CCS**	Tools: Furnish socket wrenches compatible with set screws of concealed theft-resistant fastenings. Furnish minimum of 2 wrenches and an additional 2 wrenches for every 6 accessories having such fastenings	F				
102814			**ELECTRIC HAND DRYERS**					
102814	**1.01A**	**PD**	Electric Hand Dryers - Surface Mounted	D				
102814	**1.01B**	**CCS**	Operation and Maintenance Data - 2 copies	F				
310000			**EARTHWORK**					
310000		**PD**	Item B-12	D				
310000		**PD**	Subbase Course Type 2	D				
310000		**PD**	Selected Fill	D				
310000		**PD**	Cushion Material	D				
310000		**PD**	Filter Fabric (GeoTextile)	D				
310000		**SAM**	Item B-12	D				
310000		**SAM**	Subbase Course Type 2	F				
310000		**SAM**	Selected Fill	F				
310000		**SAM**	Cushion Material	F				
310000		**SAM**	Subbase Course Type 2	F				
310000		**SAM**	Cushion Material	F				
310000		**QCS**	Subbase Materials	D				
310000		**QCS**	Excavation Procedure	D				
310000		**QCS**	Sheeting, Shoring, and Bracing (Not shown on the Drawings)	D				
321216			**ASPHALT PAVING**					
321216		**PD**	Top Course	D				
321216		**PD**	Binder Course	D				
321216		**PD**	Shim Course	D				
321216		**PD**	Base Course	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: 45682-C

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321216		**PD**	Asphalt Cement Tack Coat	D				
321216		**PD**	Paving Synthetics	D				
321216		**EPD**	Environmental Product Declaration	F				
321216		**QCS**	Plant name and location of asphalt concrete supplier	D				
321300			**CONCRETE WALKS**					
321300		**PD**	Concrete Design Mix	D				
321300		**PD**	Portland Cement	D				
321300		**PD**	Air-entraining Admixture	D				
321300		**PD**	Curing and Anti-Spalling Compound	D				
321300		**PD**	ADA Detectable Warning Surface	D				
321300		**EPD**	Environmental Product Declaration	F				
321300		**SAM**	Bar Supports	F				
321300		**SAM**	ADA Detectable Warning Surface	F				
321373			**CONCRETE PAVING JOINT SEALANTS**					
321373		**PD**	Type 1B Sealant	D				
321373		**PD**	Cork Joint Filler	D				
321373		**PD**	Closed Cell Polyurethane Joint Filler	D				
321373		**PD**	Self-Expanding Cork Joint Filler	D				
321373		**PD**	Joint Primer/Sealer/Conditioner	D				
321373		**PD**	Backer Rod	D				
321373		**PD**	Bond Breaker Tape	D				
321373		**PD**	Cleaning Solvents	D				
321373		**PD**	Color	D				
323113			**CHAIN LINK FENCE AND GATES**					
323113		**SD**	Complete detailed drawings for each height and style of fence and gate required. Include separate schedule for each listing all materials required and technical data such as size, weight, and finish, to ensure conformance to specifications.	D				
323113		**PD**	Class B Steel Tubing	D				
323113		**PD**	STEEL FRAMEWORK (FOR FENCES 6'-1" - 10'-0" HIGH) - End Posts, Corner Posts and Pull Posts	D				
323113		**PD**	STEEL FRAMEWORK (FOR FENCES 6'-1" - 10'-0" HIGH) - Line Posts	D				
323113		**PD**	Steel Fabric	D				
323113		**PD**	Swing Gate Posts	D				
323113		**PD**	Swing Gate Frames	D				
323113		**PD**	Swing Gate Hardware	D				
323113		**PD**	Keying	F				
323113		**PD**	Rails and Post Braces	D				
323113		**PD**	Fittings and Post Tops	D				
323113		**PD**	Stretcher Bars	D				
323113		**PD**	Metal Bands (for securing stretcher bars)	D				
323113		**PD**	Wire Ties	D				
323113		**PD**	Truss Rods	D				

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323113		**PD**	Concrete	D				
323113		**PD**	Spiral Paper Tubes	D				
323113		**PD**	Cold Galvanizing Compound	D				
323113		**PD**	Tension Wire	D				
323113		**PD**	Angle Beams, I Beams, and Steel Shapes	D				
323113		**PD**	Bolts and Nuts	D				
323113		**PD**	Wedge Anchors	D				
323113		**PD**	Finishes	D				
323113		**EPD**	Environmental Product Declaration	F				
323113		**SAM**	Fence Fabric	F				
323113		**SAM**	Fence and Gate Posts	F				
323113		**SAM**	Miscellaneous Materials and Accessories	F				
323113		**SAM**	Provide samples from materials delivered to the Site for installation.	F				
323113		**QCS**	Test Reports: Security coils test procedure report.	D				
323113		**QCS**	Certificates: Affidavit required under Quality Assurance Article	F				
331101			**WATER UTILITY DISTRIBUTION PIPING**					
331101		**PD**	Ductile Iron Pipe	D				
331101		**PD**	Fittings	D				
331101		**PD**	Flexible Expansion Joints	D				
331101		**QCS**	Statement of compliance with ANSI/AWWA Specifications.	F				
331216			**WATER UTILITY DISTRIBUTION VALVES**					
331216		**PD**	Valve Schedule	D				
331216		**PD**	Gate Valves	D				
331216		**PD**	Butterfly Valves, 3 inches and larger	D				
331216		**PD**	Valve Boxes	D				
331216		**PD**	Valve Keys	D				
331300			**DISINFECTION OF WATER UTILITY DISTRIBUTION**					
331300		**CCS**	Test Results	**F**				