

**ADDENDUM NO.** 01

PROJECT: Newburgh Enlarged City School District  
2019 Capital Improvements Project – Phase 3

CPL PROJECT NO. 13940.18

SED PROJECT NO. Heritage Middle School SED # 44-16-00-01-0-039-011

DATE: September 21, 2021

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Include this Addendum as part of the Contract Documents. It supplements portions of the original specifications and drawings, the extent of which shall remain, except as revised herein:

**CLARIFICATIONS:**

- 1.1 On drawing HMS I200A: All transition strips shall be part of alternate # GC-6
- 1.2 The existing Public Address System is Simplex. PA rack is located in the Main Office 101 on First Floor.

**CHANGES TO THE PROJECT MANUAL:**

- 2.1 After Section 000115, add the attached Section 000550 – Construction Schedule.
- 2.2 Add the attached Section 011200 “Multiple Contract Summary” after section 011000 “Summary”
- 2.3 Section 015001:
  - 2.3.1 After Part 3.4.L, add the following:

“M. Project Identification and Temporary Signs: The General Contractor will prepare Project identification and other signs in sizes indicated. Install signs where indicated to inform public and persons seeking entrance to Project. Do not permit installation of unauthorized signs.



- a. Engage an experienced sign painter to apply graphics for Project identification signs. Comply with details indicated.
- b. Prepare temporary signs to provide directional information to construction personnel and visitors.
- c. Construct signs of exterior-type Grade B-B high-density concrete form overlay plywood. Support on posts or framing of preservative-treated wood or steel.
  - i. Size: 4-feet by 8-feet by 3/4-inch thick.
- d. Paint sign panel and applied graphics with exterior-grade alkyd gloss enamel over exterior primer.”

2.3.2 Add the attached “Site Logistics Plan” to the end of section 015001 “Temporary Facilities & Controls”

2.4 Section 042000: After Part 2.02.C add the following:

- “D. Decorative CMUs: ASTM C 90.
1. Manufacturers
    - a. Barnes and Cone. Split Faced CMU
    - b. York Building Product
    - c. Anchor an Oldcastle company
  2. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 2150 psi.
  3. Density Classification: Normal weight.
  4. Size: 4”x 8”x16” nominal.
  5. Pattern and Texture: Split Rib 2, split-face finish.
  6. Colors: As selected from manufacturers full range.”

2.4. Section 055000: Delete in its entirety

2.5 Section 096990: Delete in its entirety

**TO THE DRAWINGS:**

0.1 Drawing HMS S202: Revise note, “Conc. Chiller...” to read, “Concrete Movement Sensitive Equipment Pad. Refer to Detail 6/S802 and H drawings. Coordinate with Mechanical contractor for exact size and location.

3.2 Drawing HMS A100A & HMS A100B: Revise keynote M4 to read; “Remove existing ballasted system down to vapor barrier, cut back counter flashing to face of masonry.”

3.3 Drawing HMS A200A: Replace with the attached revised HMS A200A.

3.4 Drawing HMS A204B; Replace sheet with attached revised HMS A204B



- 3.5 Drawing HMS A205: Replace sheet with attached revised HMS A205
- 3.6 Drawing HMS A206: Replace sheet with attached revised HMS A206
- 3.7 Drawing HMS A801:
  - 3.7.1 Replace detail 6 with the attached detail shown on sketch AD01 SK-A01
  - 3.7.2 Replace detail 10 per the attached sketch AD01 SK-A02
- 3.8 Drawing HMS I000; Interior Finish Schedule: Delete Note “Provide ARDEX or equal...” from SVT-1 and SVT-2
- 3.9 Drawing HMS I300B: Replace sheet with attached HMS I300B
- 3.10 Drawing HMS H100B: Replace with the attached revised HMS H100B.
- 3.11 Drawing HMS H100C:
  - 3.11.1 Revise keynote 1 to read; “Remove existing unit ventilator, save control valve actuator and prepare control wiring for extension to new unit. Outdoor air louver to remain.”
  - 3.11.2 Add keynote 1 to existing UV-9.
  - 3.11.3 Revise keynote 3 to read; “Remove existing unit ventilator, save control valve actuator and prepare control wiring for new unit.”
- 3.12 Drawing HMS H100D:
  - 3.12.1 Revise keynote 1 to read; “Remove existing unit ventilator, save control valve actuator and prepare control wiring for extension to new unit. Outdoor air louver to remain.”
  - 3.12.2 Add keynote 1 to existing UV-6.
  - 3.12.3 Revise keynote 3 to read; “Remove existing unit ventilator, save control valve actuator and prepare control wiring for new unit.”
  - 3.12.4 Revise keynote 4 to read; “Remove existing dust collector, controls, equipment pad and ductwork.
- 3.13 Drawing HMS H101A: Add keynote 4 to “72x18” (E) openings in two locations.
- 3.14 Drawing HMS H101B:
  - 3.14.1 Revise keynote 2 to read; “Remove existing 34x54 gravity relief in its entirety including curb.”



- 3.14.2 Existing GRV-6 shall be removed.
- 3.15 Drawing HMS H101C:
  - 3.15.1 Revise keynote 1 to read; “Remove existing unit ventilator, save control valve actuator and prepare control wiring for extension to new unit. Outdoor air louver to remain.”
  - 3.15.2 Remove keynote 8.
- 3.16 Drawing HMS H101D:
  - 3.16.1 Revise keynote 1 to read; “Remove existing unit ventilator, save control valve actuator and prepare control wiring for extension to new unit. Outdoor air louver to remain.”
  - 3.16.2 Revise keynote 5 to read; “Note not used.”
- 3.17 Drawing HMS H102C: Replace sheet with attached revised HMS H102C
- 3.18 Drawing HMS H102D:
  - 3.18.1 Revise keynote 4 to read; “Remove RSL/RLL piping in its entirety.”
  - 3.18.2 Revise keynote 6 to read; “Remove existing unit ventilator, save control valve actuator and prepare control wiring for extension to new unit. Outdoor air louver to remain.”
  - 3.18.3 Revise keynote 1 to read; “Remove existing unit ventilator, save control valve actuator and prepare control wiring for extension to new unit. Outdoor air louver to remain.”
- 3.19 Drawing H103C:
  - 3.19.1 Delete General Notes.
  - 3.19.2 Revise keynote 1 to read; “Remove existing unit ventilator, save control valve actuator and prepare control wiring for extension to new unit. Outdoor air louver to remain.”
- 3.20 Drawing HMS H103D:
  - 3.20.1 Revise keynote 1 to read; “Remove existing unit ventilator, save control valve actuator and prepare control wiring for extension to new unit. Outdoor air louver to remain.”
  - 3.20.2 Delete General Notes.
- 3.21 Drawing HMS H200B: Replace sheet with attached revised HMS H200B
- 3.22 Drawing HMS H200C:





- 3.22.1 Add keynote 3 to read; “Alternate MC-2 includes unit, ductwork and piping back to mains.”
- 3.22.2 Add keynote 3 to FC-2 adjacent to Stair G.
- 3.23 Drawing HMS H200D:
  - 3.23.1 Add keynote 6 to read; “Alternate MC-2 includes unit, ductwork and piping back to mains.”
  - 3.23.2 Add keynote 6 to FC-3 adjacent to Stair A.
- 3.24 Drawing HMS H201A: Replace sheet with attached revised HMS H201A
- 3.25 Drawing HMS H201C:
  - 3.25.1 Keynotes:
    - 3.25.1.1 Add keynote 4 to read; “Alternate MC-2 includes unit, ductwork and piping back to mains.”
    - 3.25.1.2 Revise keynote 3 to read; “Provide new duct and reinstall electric reheat coil.”
  - 3.25.2 Add keynote 4 to FC-4 adjacent to Stair FF and FC-8 adjacent to Guidance 170.
- 3.26 Drawing HMS H201D:
  - 3.26.1 Revise keynote 3 to read: “Alternate MC-2 includes unit, ductwork and piping back to mains.”
  - 3.26.2 Add keynote 3 to FC-5 adjacent to Stair A.
- 3.27 Drawing HMS H202C:
  - 3.27.1 Revise keynote 3 to read; “Alternate MC-2 includes unit, ductwork and piping back to mains.”
  - 3.27.2 Add keynote 3 to FC-6 adjacent to Stair FF.
  - 3.27.3 Delete keynote bubble 3 from Faculty Room 210.
- 3.28 Drawing HMS H202D:
  - 3.28.1 Keynotes:
    - 3.28.1.1 Revise Keynote 3 to read; “Alternate MC-2 includes unit, ductwork and piping back to mains.”



- 3.28.1.2 Delete keynote 5 and all references to it.
- 3.28.2 Add keynote 3 to FC-7.
- 3.29 Drawing HMS H203C:
  - 3.29.1 Keynotes:
    - 3.29.1.1 Revise keynote 8 to read “Alternate MC-2 includes unit, ductwork and piping back to mains.”
    - 3.29.1.2 Delete keynote 9 in its entirety.
  - 3.29.2 Add keynote 8 to FC-11 adjacent to Math 401.
- 3.30 Drawing HMS H203D:
  - 3.30.1 Revise keynote 5 to read “Alternate MC-2 includes unit, ductwork and piping back to mains.”
  - 3.30.2 Add keynote 5 to FC-9 adjacent to ELA 405.
- 3.31 Drawing HMS H300A: Replace sheet with attached revised HMS H300A.
- 3.32 Drawing HMS H300B:
  - 3.32.1 Add keynote 4 to read; “Mount SSI as high as possible, coordinate location with existing, provide new temperature controls.”
  - 3.32.2 Add keynote 4 to SSI-9.
- 3.33 Drawing HMS H300C: Add keynote 3 to area page left where the new 6” chilled water piping enters from. Area has some congestion and will require stacking piping or rerouting piping to accommodate new work.
- 3.34 Drawing HMS H301A:
  - 3.34.1 Revise keynote 1 to read; “Refer to H300A for control sensor locations.”
  - 3.34.2 Revise keynote 2 to read; “Condensate shall be routed through the interior and penetrate to the exterior 8” above grade maximum.”
- 3.35 Drawing HMS H301B: Replace sheet with attached revised HMS H301B.
- 3.36 Drawing HMS H302D:
  - 3.36.1 Add keynote 3 to floor mounted unit ventilators in rooms 313, 314, and 315.



- 3.36.2 Unit labels shall match sheet H202D.
- 3.37 Drawing HMS H303D: Replace sheet with attached revised HMS H303D
- 3.38 Drawing HMS H900: Replace sheet with attached revised HMS H900
- 3.39 Drawing HMS H901: Replace sheet with attached revised HMS H901
- 3.40 Drawing HMS E200B: Revise first sentence of keynote 3 to read, "Mount new projection equipment provided by owner on bottom of soffit."
- 3.41 Drawing HMS E201B: Replace with the attached revised HMS E201B
- 3.42 Drawing HMS E900: Replace with the attached revised HMS E900
- 3.43 Drawing HMS E901: Replace with the attached revised HMS E901

END OF ADDENDUM NO. 01

<b>NEWBURGH ECSD</b>		Phase 3: 2019 Capital Improvement Project	
13940.18	CONSTRUCTION SCHEDULE	000550 - 1	

**SECTION 000550  
CONSTRUCTION SCHEDULE**

**PART 1-GENERAL**

**1.1 CONSTRUCTION SCHEDULE**

**1.01 CONTRACTOR SHALL COMPLETE WORK OF THIER CONTRACT PER THE ATTACHED  
CONSTRUCTION SCHEDULE.**

**PART 2 - PRODUCTS (NOT USED)**

**PART 3 - EXECUTION (NOT USED)**

**END OF SECTION 000550**

# Heritage

Project Lead: TPG

							2021			
WBS	Task Name	Start	Finish	Duration	RESPONSIBILITY	LOCATION	Sep	Oct	Nov	Dec
							9	10	11	12
1	Out to bid	Mon 06-Sep-21	Tue 05-Oct-21	22						Out to bid
2	Bid Contractor Walkthrough	Wed 22-Sep-21	Wed 22-Sep-21	1						Bid Contra
3	Bid Opening	Tue 05-Oct-21	Tue 05-Oct-21	1						Bid Op
4	Contractor qualification	Thu 07-Oct-21	Mon 11-Oct-21	3						Contra
5	Award contracts	Tue 12-Oct-21	Wed 13-Oct-21	2						Award
6	Front end submittals	Thu 14-Oct-21	Fri 29-Oct-21	12						Front e
7	Product submittals	Thu 14-Oct-21	Wed 15-Dec-21	45						Produ
8	Substantial Completeion	Thu 01-Sep-22	Thu 01-Sep-22	1						
9	C of O Inspection	Tue 23-Aug-22	Tue 23-Aug-22	1						
10	Startup and balancing	Tue 24-May-22	Mon 05-Dec-22	140						
11	Closeout	Tue 06-Sep-22	Mon 10-Oct-22	25						
12	Demobilize	Tue 06-Sep-22	Mon 10-Oct-22	25						
13	<b><u>New Addition Construction</u></b>	Thu 14-Oct-21	Mon 15-Aug-22	218						New A
14	Mobilization / Site fence	Thu 14-Oct-21	Wed 03-Nov-21	15						Mobili
15	Under ground utility re-route	Thu 04-Nov-21	Wed 24-Nov-21	15						Un
16	Phase one site prep	Thu 25-Nov-21	Wed 01-Dec-21	5						Ph
17	Survey stakeout	Thu 02-Dec-21	Thu 02-Dec-21	1						
18	Phase two site/pad prep	Fri 03-Dec-21	Mon 06-Dec-21	2						
19	Excavation footings	Tue 07-Dec-21	Thu 09-Dec-21	3						
20	Footing rebar	Fri 10-Dec-21	Tue 21-Dec-21	8						
21	Form and pour footings	Wed 22-Dec-21	Tue 28-Dec-21	5						
22	Strip footings	Wed 29-Dec-21	Thu 30-Dec-21	2						
23	Rebar FO walls / set sleeves	Fri 31-Dec-21	Mon 10-Jan-22	7						
24	Install anchor bolts	Tue 11-Jan-22	Tue 11-Jan-22	1						
25	Form and Pour FO walls	Wed 12-Jan-22	Wed 19-Jan-22	6						
26	Strip walls	Thu 20-Jan-22	Fri 21-Jan-22	2						
27	Waterproof FO Walls	Mon 24-Jan-22	Tue 25-Jan-22	2						
28	Backfill FO Walls	Wed 26-Jan-22	Fri 28-Jan-22	3						
29	Prep SOG	Mon 31-Jan-22	Thu 03-Feb-22	4						
30	Stone for SOG	Fri 04-Feb-22	Wed 09-Feb-22	4						
31	Underground MEP / outlets	Thu 10-Feb-22	Wed 16-Feb-22	5						
32	Waterproof SOG	Thu 17-Feb-22	Mon 21-Feb-22	3						
33	Rebar SOG	Tue 22-Feb-22	Tue 01-Mar-22	6						
34	Pour SOG + cure time	Wed 02-Mar-22	Tue 15-Mar-22	10						
35	Set structural steel framing	Wed 16-Mar-22	Tue 29-Mar-22	10						
36	Set roof deck	Wed 30-Mar-22	Tue 12-Apr-22	10						
37	Install temp roof	Wed 13-Apr-22	Tue 26-Apr-22	10						
38	Set Storefront	Wed 20-Apr-22	Tue 03-May-22	10						
39	interior framing	Wed 20-Apr-22	Tue 10-May-22	15						
40	Mechanical rough / duct work	Thu 07-Apr-22	Wed 27-Apr-22	15						

41	Electrical rough	Wed 11-May-22	Tue 31-May-22	15		
42	Plumbig rough	Wed 11-May-22	Mon 30-May-22	14		
43	exterior finish	Wed 04-May-22	Tue 31-May-22	20		
44	finish roofing / tie in	Wed 30-Mar-22	Tue 26-Apr-22	20		
45	Exterior concrete Sidewalks	Sat 28-May-22	Fri 24-Jun-22	20		
46	Sheet rock / tapingc/ Paint	Tue 07-Jun-22	Mon 18-Jul-22	30		
47	Ceilings	Tue 19-Jul-22	Mon 08-Aug-22	15		
48	Architechtrual finishes	Tue 19-Jul-22	Mon 08-Aug-22	15		
49	MEP finishes	Tue 19-Jul-22	Mon 15-Aug-22	20		
50	Final Cleaning / training / turnover	Tue 16-Aug-22	Mon 05-Sep-22	15		
51	C of O Inspection	Tue 23-Aug-22	Tue 23-Aug-22	1		
52	startup and balancing	Tue 16-Aug-22	Mon 05-Dec-22	80		
53	<b><u>Existing Cafeteria Renovation</u></b>	Tue 28-Jun-22	Tue 06-Sep-22	51		
54	Demo Space/MEPS	Tue 28-Jun-22	Thu 07-Jul-22	8		
55	New Mechanical / MEP rough	Fri 08-Jul-22	Thu 04-Aug-22	20		
56	Framing	Fri 05-Aug-22	Tue 16-Aug-22	8		
57	Sheetrock	Fri 12-Aug-22	Mon 29-Aug-22	12		
58	Paint / finishes	Tue 30-Aug-22	Tue 06-Sep-22	6		
59	Mechanical Startup and balancing	Wed 07-Sep-22	Fri 09-Dec-22	68		
60	<b><u>GYM MEP Second Shift work</u></b>	Thu 16-Dec-21	Mon 15-Aug-22	173		
61	New unit install	Tue 01-Feb-22	Mon 04-Apr-22	45		
62	Duct work install	Tue 05-Apr-22	Mon 09-May-22	25		
63	Copper runs	Tue 05-Apr-22	Mon 09-May-22	25		
64	Diffusers and grills	Tue 10-May-22	Mon 23-May-22	10		
65	Demo Existing Mechanical	Tue 28-Jun-22	Mon 29-Aug-22	45		
66	Mechanical Startup and balancing	Tue 24-May-22	Fri 09-Dec-22	144		
67	<b><u>Existing BLDG MEP / ceilings Second</u></b>	Thu 16-Dec-21	Mon 15-Aug-22	173		
68	Chiller line / ceiling removal	Thu 16-Dec-21	Wed 23-Mar-22	70		
69	New Ceiling unit install	Tue 28-Jun-22	Mon 19-Sep-22	60		
70	New Copper runs / condensate	Thu 16-Dec-21	Wed 23-Mar-22	70		
71	Electrical tie ins	Tue 28-Jun-22	Mon 29-Aug-22	45		
72	New ceilings	Tue 12-Jul-22	Mon 29-Aug-22	35		
73	Demo Existing Mechanical	Tue 28-Jun-22	Mon 08-Aug-22	30		
74	New units tie ins	Mon 04-Jul-22	Thu 01-Sep-22	44		
75	Floor / finishes repair	Tue 05-Jul-22	Mon 15-Aug-22	30		
76	Mechanical Start up And balancing	Tue 16-Aug-22	Fri 09-Dec-22	84		
77	<b><u>Site work summer 2022</u></b>	Tue 28-Jun-22	Thu 01-Sep-22	48		
78	Concrete sidewalk demo	Tue 28-Jun-22	Mon 22-Aug-22	40		
79	New conc. Sidewalk forms	Tue 05-Jul-22	Mon 08-Aug-22	25		
80	New Conc. Sidewalk pour	Tue 19-Jul-22	Mon 29-Aug-22	30		
81	New Asphalt at entrance + stripeing	Tue 05-Jul-22	Wed 03-Aug-22	22		
82	Soil and seeding	Thu 04-Aug-22	Wed 24-Aug-22	15		
83	<b><u>Submittals Long Leed Submission</u></b>	Thu 14-Oct-21	Wed 10-Nov-21	20		Submi
84	Casework / Shop drawings	Thu 14-Oct-21	Wed 27-Oct-21	10		Casew
85	Windows / Shop Drawings	Thu 14-Oct-21	Wed 27-Oct-21	10		Windo

86	Mechanical units	Thu 14-Oct-21	Wed 27-Oct-21	10	Mecha
87	Doors	Thu 14-Oct-21	Wed 27-Oct-21	10	Doors
88	Steel / rebar / Shop Drawings	Thu 14-Oct-21	Wed 27-Oct-21	10	Steel /
89	Main electrical Equipment	Thu 14-Oct-21	Wed 27-Oct-21	10	Main e
90	Gym Equipment	Thu 14-Oct-21	Wed 27-Oct-21	10	Gym E
91	Lighting fixtures	Thu 14-Oct-21	Wed 27-Oct-21	10	Lightin
92	Roof insulation	Thu 14-Oct-21	Wed 27-Oct-21	10	Roof in
93	Brick	Thu 14-Oct-21	Wed 27-Oct-21	10	Brick
94	Drinking fountains	Thu 14-Oct-21	Wed 27-Oct-21	10	Drinkin
95	Coordination drawings	Thu 14-Oct-21	Wed 27-Oct-21	10	Coordi
96	Site work catch basins / vaults	Thu 14-Oct-21	Wed 27-Oct-21	10	Site w

*Type here to add a new task*

**SECTION 011200 - SUMMARY MULTIPLE PRIMES****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including the General and Supplemental Conditions and Division 1 Specification Section, apply to this Section.

**1.2 SUMMARY**

- A. Section includes:
  - a) Project information.
  - b) Work covered by Contract Documents.
  - c) Construction schedule.
  - d) Requirements and assignments for each Contract.
  - e) Owner-furnished products.
  - f) Access to site.
  - g) Coordination with occupants.
  - h) Work restrictions.
- B. Section includes a summary of each contract, including responsibilities for coordination and temporary facilities and controls.
- C. Each Contractor is responsible to review all Drawings and Specifications for every contract to gain a complete understanding and knowledge of the entire Project, to determine how the work of each contract is to interface with every other contract.

**1.3 DEFINITIONS**

- A. Project Identification: Project consists of all labor, materials, equipment, appliances, services, and incidentals necessary for layout, installing, and performing Additions and Alterations at the Newburgh Enlarged City School District as shown on the Contract Drawings and described in the Specifications.
- B. The work will be constructed under multiple prime contracts. One set of contract documents is issued covering the multiple contracts. Each Prime Contract is defined as:
  - a) CONTRACT 1 GC – GENERAL CONSTRUCTION WORK
  - b) CONTRACT 2 MC – MECHANICAL/PLUMBING CONSTRUCTION WORK
    - 1) Plumbing will be covered in the Mechanical Construction Scope and contract.
  - c) CONTRACT 3 EC – ELECTRICAL CONSTRUCTION WORK
- C. Architect Identification: The Contract Documents were prepared for the Project by CPL Architecture-Engineering-Planning
- D. Construction Manager: The Palombo Group has been engaged as Construction Manager for this Project to serve as an advisor to Owner and to provide assistance in administering the Contract for Construction between Owner and Contractor, according to a separate contract between Owner and Construction Manager.
- E. Building Code in Effect for Project: 2020 NYS Building Code.



- F. Comply with the following: New York State buildings Code and the building standards of the New York State Education Department.

#### 1.4 THE CONTRACT

- A. The Project will be constructed under a multiple prime contracting arrangement with the Owner awarding and holding the separate Contracts. Each contractor shall furnish all labor, material, tools, equipment, supervision, layout, delivery, trucking, shop drawings, submittals, etc. necessary to complete the work described in the Division of Work of their respective Contracts and based upon a complete set of Contract Documents.
- B. Each Contractor has been given the opportunity prior to bid to inspect the entire Project site for interferences to their Contract work and agrees to accept the site as it exists on the date of the bid opening.
  - a) It is the Owner's intention to continue to occupy the existing buildings and site for normal School operations during the Construction process. The Contractors all agree to:
  - b)
    - 1) Cooperate with the Owner's personnel in maintaining and facilitating access to the school buildings and its facilities by the School staff, Students, Owner's agents, service consultants and the public, throughout the construction process.
    - 2)
    - 3) Keep driveways and entrances serving the occupied School buildings clear and available to the Owner, the Owner's employees, the public, and to emergency vehicles always. Do not obstruct access to, or use these areas for parking, staging of equipment or materials. All access through these existing areas must be coordinated in advance and in accordance with the Owner's usage and occupancy schedule.
    - 4)
    - 5) Schedule construction operations to minimize any conflicts or interruptions to the daily school functions. Coordinate any necessary interruptions with the designated project representative.
    - 6)
  - b) All existing Owner-occupied areas of buildings (not turned over to the Project Contractors) need to always remain operational. The contractors are responsible to maintain all systems, such as but not limited to: fire alarm, clocks, electric, public address system, gas service, heat etc.
  - c)
  - c) Each contractor will provide sign in sheets of their respective manpower to the CM Daily.
- C. Each Prime Contractor shall:
  - a) Provide field-engineering services, in addition to those provided by the General Work Prime Contract, to install site utilities included in the applicable Prime Contract.
  - b) Coordinate construction schedule information to formulate one master schedule for the entire Project by the GC.

- c) Provide reflective vests and PPE to be always worn by all on-site personnel. Parties that do not abide by this requirement will be escorted off the premises.
- d) Provide erosion and Sediment Control and dewatering as it relates to any excavation associated with the site work Prime Contract.
- e) Provide potable drinking water for its own employees.
- f) Provide access to all concealed systems as required for system maintenance and repair for items installed in their Prime Contract. This specifically talks to access panels needed for future maintenance by the district.
- g) Provide and maintain material lifting equipment required for the completion of their Contract requirements, and complying with NYS Labor Laws, OSHA Regulations, and other Federal, State, and local laws.
- h) Provide and maintain additional temporary stairs, ladders, ramps, scaffolding, and platforms required specifically for completion of work of their own Contract, and as further detailed in this section. All work needs to comply with the NYS Labor Laws, OSHA regulation, and other Federal, State, and local laws.
- i) Provide Fire Prevention materials and equipment for fire protection related to the work of their own Prime Contract. Provide fire extinguishers, fire blankets, and fire watch during all cutting and welding operations.
- j) Provide any supplemental lighting required to install the work of its own Contract, beyond the minimum OSHA levels provided under the Electrical Work Prime Contract.
- k) Provide any supplemental heat required to install the work of its own Contract.
- l) Provide traffic control for deliveries, and equipment needed to perform the work of their own Prime Contract.
- m) Provide protection of its own finished Work, after installation, until accepted by the Owner.
- n) Provide fireproofing for any penetration related to the work for its own Prime Contract.
- o) Provide any office and storage trailers required to complete the work of their own Prime Contract.
- p) Provide final cleaning of all surfaces and areas within the work areas to the satisfaction of the CM.
- q) Provide for a thorough final cleaning of the site, building, and equipment provided under their Prime Contract immediately before the final inspection. Each Prime

Contractor is responsible for cleaning and dust and debris generated from the work of their own Contract.

- u) Maintain areas in a cleaned condition until the Owner occupies the space.

D. Definition of Extent of Prime Contract Work; Additional Prime Contract Work not previously described

- a) All Prime Contractors are responsible for reviewing plans and specs as it pertains to their scope of work mentioned in the contract documents. Scopes of work referenced may be found in multiple locations throughout the plans and specifications.
- b) Local custom and trade union jurisdictional settlements do not control the scope of work included in each prime contract. When a potential jurisdictional dispute or similar interruption of work is first identified or threatened, the affected prime contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and delays.
- c) All OSHA safety and hazardous materials regulations will be enforced on this project. All Contractors must submit a safety program, a hazardous materials program, (all required data must be maintained at the job site) and attend safety meetings. Toolbox talks will be required from each prime contractor daily.
- d) All Contractors are responsible for any debris caused by their work. A daily clean-up and disposal is required by each Contractor for the periods which that Contractor is performing work on site, on a day selected by the Construction Manager. Each trade will assign at least one person to the weekly clean-up; the name of this person is to be submitted to the Construction Manager. Any Contractor not providing personnel will be "back-charged" for labor provided by the Construction Manager.
- e) All Contractors are responsible for cutting/patching required to complete their work unless structural support is need and if needed, work to be performed by the GC. All exposed finishes must be ready to receive paint, etc.; all concealed openings (piping, ductwork, conduit, etc.) must be repaired to comply with specified wall or deck conditions.
- f) Multiple Crews: To maintain the project schedule, each Prime Contractor is to provide multiple crews. Each crew is to be furnished with its own supervision, cranes, scaffold and other means necessary to maintain the Project Schedule.
- g) Supervision: The proposed project manager and field superintendent for the project is to have at least five years' experience in the proposed position. Each successful bidder shall submit resumes to the Construction Manager for the proposed project manager and field superintendent for the project. This information will be reviewed with the Owner, Architect and Construction Manager for approval. Should the Project Manager and/or Superintendent prove unqualified for the position at any point in the project, the Construction Manager shall issue a

letter stating that the person is to be removed from involvement in the project. Action by the contractor must be made within seven working days of receipt of such letter.

- h) Each prime contractor shall return areas disturbed by their work activities to condition prior to start of work.
- i) Each prime contractor shall maintain within its field office a complete and current set of Contract Documents (including any Addenda, Change Orders, and Modifications thereto), approved shop drawings, samples, color schedules and other data pertinent to the Project.
- j) Each prime contractor is to survey existing work and submit to the Construction Manager a list of damaged areas (i.e. plaster walls, woodwork) prior to commencing work. Any damaged areas not identified prior to the work shall be the responsibility of the contractor/ Contractors working in that area. Construction Manager will have photos of existing conditions on file for reference.
- k) Unless a specific item or material is noted as to remain the Owner's property or to become the Contractor's property (or similar words), any material having salvage or reuse value shall be inspected by the Owner. If the Owner wishes to retain this material, it shall be turned over to him on the site where directed. If the Owner designates the material as scrap, it shall become the Construction Manager's property and removed from the site. Material having salvage value shall be carefully removed. If the Construction Manager designates the material as scrap, it shall become the contractor's property and removed from the site by the contractor. Material having salvage value shall be carefully removed.
- l) When the building is occupied and fire alarm and safety system work is in progress, the General Contractor (Contract #1) shall continuously maintain the existing building's fire alarm and detection system and exit and emergency lighting system or provisions must be made to provide equivalent safety. Contractor must notify the local fire department of any non-operating systems.
- m) All personnel required to be on site shall at all times have all required personnel protective equipment on at all times.
- n) All personnel on site shall always have a photo ID displayed where visible. Those without will be removed from site at once. If the same individual fails to have the ID a second time they will be removed from site and not be allowed back on site.

## 1.5 SUMMARY OF WORK

- A. The work will be constructed under multiple prime contracts. One set of contract documents is issued covering the multiple contracts. Each Prime Contract is defined as:
  - a) CONTRACT 1 GC – GENERAL CONSTRUCTION WORK
  - b) CONTRACT 2 MC - MECHANICAL/PLUMBING CONSTRUCTION WORK
  - c) CONTRACT 3 EC - ELECTRICAL CONSTRUCTION WORK

- B. Phase 3: 2019 Capital Improvement project (Heritage Middle School): The work consists of but not limited to the following:

- d) General Contractor. New Addition, site work and renovations. Day and Night shift mandatory
- e) Electrical Contractor - New Addition, site work and renovations. Main service upgrade and Mechanical connections. Day and Night shift mandatory
- f) Mechanical and plumbing will be combined to the Mechanical Contract. New Addition, site work and renovations. New mechanical units throughout building. Day and Night shift mandatory

#### 1.6 WORK UNDER SEPARATE CONTRACTS

- A. The project will be constructed under a multiple-prime contracting arrangement
- B. One set of documents is issued covering all prime contracts scope of work. Each prime contractor is to review ALL drawings and specifications for complete understanding and knowledge of the work to be performed.
- C. The following Contract Documents are specifically included and defined as integral to each Prime Contract.
- a) Bidding Requirements
  - b) Performance and Payment Bonds
  - c) Conditions of the Contract, including
    - a) General Conditions & Supplementary Conditions
    - b) Insurance Requirements
    - c) NYS Prevailing Wage Rates
    - d) Project Labor Agreement
- D. Extent of Contract: Unless the Contract Documents contain a more specific description of the work, names and terminology on Drawings and in Specification Sections determine which contract includes a specific element of Project.
- a) Unless otherwise indicated, the Work described in this Section for each contract shall be complete systems and assemblies, including products, components, accessories, and installation required by the Contract Documents.
  - b) The Mechanical contract to include all Plumbing scope of work as described in the project documents.
  - c) The General Construction Contract shall provide excavation for all trades work. The General Construction contractor is to refer to Mechanical, Plumbing, Electrical and Plumbing drawings for locations of utilities requiring excavation, removals, placements, and backfilling. Include concrete encasement of new electrical service if required by utility company.
  - d) Concrete Work of each contract shall be provided by the General contractor, unless specifically assigned to another Contract.

- e) Provide all cutting, core drilling & patching associated with the Work of its Prime Contract. All patching is to be performed by mechanics qualified and experienced with the materials and finishes being patched and hired by the responsible Prime Contractor. New openings requiring structural reinforcing will be the responsibility of the General construction contract.
  - f) Lead Based Paint precautions for the Work of each contract shall be provided by each contract for its own Work. Each Prime Contractor shall provide procedures for OSHA Lead precautions.
  - g) Each Prime Contractor shall designate a full-time superintendent to supervise the work of the Prime Contractor, who shall always be present on the job site when work is being performed; this person shall be familiar with Project and authorized to conclude matters relating to progress. This person shall also represent their company at weekly contractor meetings.
  - h) Termination and removal of its temporary facilities shall be provided by each contract for its own Work.
- E. Temporary Facilities and Controls: In addition to specific responsibilities for temporary facilities and controls indicated in this Section and in Division 1 Section 01 5000 "Temporary Facilities and Controls," each Contract is responsible for the following:
- a) Installation, operation, maintenance, and removal of each temporary facility usually considered as its own normal construction activity, and costs and use charges associated with each facility
  - b) Generators, plug-in electric power cords and extension cords, supplementary plug-in task lighting, and special lighting necessary exclusively for its own activities.
  - c) Its own field office, complete with necessary furniture, and telephone service. Electrical Contractor to provide power to CM's trailer.
  - d) Its own storage and fabrication sheds.
  - e) Temporary heat for construction at isolated work areas by Mechanical Contractor.
  - f) Temporary enclosures for its own construction activities.
  - g) Hoisting requirements for its own construction activities.
  - h) Each Prime Contractor is to stockpile his debris on a daily basis and place it in the dumpster. Dumpsters will be provided by the General construction contract for use by the prime contractors, recycling of materials will be instituted daily.
  - i) Secure lockup of its own tools, materials, and equipment.

- j) Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.
- k) Safety procedures as dictated by the district, OSHA, and the NYS Department of Labor.
- l) Labor for daily clean-up.
- m) General Contractor to include Temp Site fence around areas of work at the site as directed by the CM and shown on the logistics plan.
- n) Electrical Contractor to provide generators for temp power to be used by all trades until a permanent service from the utility provider can be established.
- o) The Electrical Contractor shall provide temporary power and lighting at the areas of work for all trades within the work site.
- p) Mechanical Contractor to provide temp water as required. Including hose bibs.

#### 1.7 CONTRACT 1 - GENERAL CONSTRUCTION

- A. The Work of the General Construction Work Contract includes but is not limited to, the following descriptions:
  - a) Includes Landscaping, Site grading, Site clearing, site storm, site utilities, site pavement, new building construction, renovations and alterations. This includes, but is not limited to, *work shown* on the following:
- B. Drawings:
  - a) All “G” Drawings (General)
  - b) All “A” Drawings (Architectural)
  - c) All “I” Drawings (Interiors)
  - d) All “S” Drawings (Structural)
  - e) All “C” Drawings (Civil)
  - f) All “U” Drawings (Universal)
- b) Coordination:
  - 1) Coordination with the work of all the other contractors.
  - 2) Each trade will participate in producing coordination drawings. The mechanical, Plumbing and electrical contractors will overlap their new work and coordinate locations, heights, routes, Etc. to eliminate hits and or obstructions from existing or new work. Each trade will meet once a week to coordinate their drawings. Ductwork and mechanical piping first, plumbing second and electrical third. A full set of coordination drawings must be completed within four weeks after award of contract.
  - 3) General Work Contractor is to pay particular attention to coordination of work of the mechanical contractor scope and what is needed to accommodate their work.

- 4) This trade to provide a complete coordinated schedule including all trades durations for the span of the project, including weekly updates if necessary.
- c) Demolition:
- 1) Removal of masonry walls, doors, and interior partitions as required for new work. General work contractor is responsible for shoring, demolition and protection of areas associated with new work.
  - 2) Provide protection to all materials to remain intact.
  - 3) Removal of finishes noted on plans including but not limited to flooring, ceilings, and misc. items attached to existing walls to be removed. Review patch to match conditions. Patch openings from removed unit ventilators and plumbing pipes.
  - 4) Removal and disposal of miscellaneous equipment including all existing wall mounted specialty items and/or equipment not shown if impacting work to be demolished. Coordinate shutdown of water and electric with trades associated with the area of demolition. See demolition plans for additional demolition notes.
  - 5) Removal and disposal of equipment and materials as indicated on the drawings.
  - 6) All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, saw cuts of existing slabs, providing lintels, drywall work, plaster work, grouting, painting, ceiling removal and replacement, etc, this trade contractor will be responsible for other trades openings (cutting and infill) if structural support is required.
  - 7) Temporary Facilities
  - 8) Provide temporary access and continuous exits in and out of all construction areas.
  - 9) Provide dust protection. Including but not limited to adjacent louvers and air intakes within forty feet of the exterior work area.
  - 10) Provide frost protection during excavation; protect concrete slab and masonry from cold temperatures during and after pour. Provide winter mix concrete as well all winter procedures if applicable.
  - 11) Provide continuous exits for occupied areas of the building.
  - 12) Protect exterior wall and interior spaces when performing tie in work for new addition and any type of window wall replacements.



- 13) Provide all temporary partitions, egress doors, and temporary egress parameters indicated by the CM inside and outside the building. Restore all areas to original condition upon completion.
- 14) Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 5000, "Temporary Facilities and Controls"
- 15) Provide all temporary fall protection, guardrails, handrails, slab and roof opening protection, temporary stairs and ramps as required. Include maintaining these items throughout the project as well as removal when no longer needed.
- 16) Provide Temporary storage for salvaged materials as indicated on the drawings until reinstallation of such materials
- 17) Removal of any existing curbing, stairs, bituminous paving, and walks as shown or described.
- 18) Removal of all underground utilities and/or equipment as shown or described.
- 19) Removal and disposal of miscellaneous equipment including equipment not shown if impacting work to be demolished.
- 20) General contractor to patch all walls after Mechanical contractor removes piping from UV demolition.
- 21) General Contractor to infill all louvers from the inside at the UVs after demolition.

C. Temporary Facilities

- a) Provide dust protection and temporary site/security fencing with mesh as shown on phasing and logistics plan for the period of the contract.
- b) Provide temporary roads/ access and continuous exits in and out of the construction area as shown. Provide stone entry pad at staging yard. Repair back to natural state when complete. Provide work as shown on the phasing and logistics plan.
- c) Provide all necessary erosion / waste-water control measures specific to the site construction process.
- d) Provide wash out area for construction vehicles designated by the CM.
- e) Provide Portable toilets for all trades at each site. One toilet per five men. Provide one additional ADA toilet for the Construction managers use, include weekly service

- f) Provide all Site lighting as required to maintain a safe site at night.
- g) Provide snow removal for contractor staging and work areas.
- h) Provide and install Project information signs at the site as directed by the CM. Signs provided by GC and designed by Architect. See specifications for size and materials. 2 signs
- i) Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 5000, "Temporary Facilities and Controls"

D. New Construction:

- a) The General Construction Work Contract shall perform all necessary trenching and excavation, backfilling, and compaction and field required concrete for all other primes within the construction documents.
- b) Provide multiple shifts work as needed to complete work as shown on milestone schedule.
- c) General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.

E. Earthwork :

- a) GENERAL: All earthwork shall be confined to the construction area as shown on the plans and shall be done in an approved manner with proper equipment. Earthwork shall be suspended during rain and inclement weather, or when unsatisfactory field conditions are encountered, unless otherwise directed by the ARCHITECT AND CONSTRUCTION MANAGER. At all times during construction, the CONTRACTOR shall maintain proper drainage in the construction area, and shall take all measures necessary for erosion and sediment control.
- b) Existing Utilities: CONTRACTOR shall take every precaution to protect existing utility services from damage during construction operations. If damage occurs, the OWNER of the utility shall be notified immediately and repairs shall be made promptly at the CONTRACTOR'S expense. All repair work shall be satisfactory to the ARCHITECT AND CONSTRUCTION MANAGER and the OWNER of the utility. When interruptions of existing utilities occur, temporary service shall be provided as approved by the ARCHITECT AND CONSTRUCTION MANAGER and OWNER of the utility.

F. Dressing Off:

- a) All cuts, fills and slopes shall be neatly dressed off to the required grade or subgrade, as indicated on the plans. Work in this section includes all three buildings to be demolished per the contract drawings.
- b) Cleanup: Cleanup of the site shall be made upon completion of grading work or any major part thereof. Unless otherwise noted, excess or surplus material shall be

wasted and dressed off on the site, or adjacent thereto, to the ARCHITECT AND CONSTRUCTION MANAGER'S satisfaction. Excess or surplus material wasted in off-site spoil areas shall be spread and leveled as directed.

- c) Topsoil Placement: Topsoil shall consist of a natural friable loam, occurring usually in a surface layer 6 to 18 inches thick, and free of roots, grass, weeds, stone and other foreign matter. Topsoil may be obtained from the graded area, if available, and stockpiled for future use. Otherwise, the CONTRACTOR shall provide topsoil from other sources at his own expense. All topsoil shall be acceptable to the ARCHITECT AND CONSTRUCTION MANAGER. Topsoil shall be placed on the entire graded area as shown on the plans, or as directed by the ARCHITECT AND CONSTRUCTION MANAGER. Topsoil shall be distributed to a depth of 4 inches, measured loose, and dressed off neatly to finish grade, with all debris removed.
  - d) Provide temporary driveway, parking lot paving and drainage if required.
  - e) Areas modified for construction/staging/ Etc. to be placed back to its natural state once construction is complete by this trade.
  - f) Provide all site signage as requested by the CM. Example; Gate A-B, Hard hat area, No smoking, Construction personnel only, Exit signs, Project information sign, Etc.
  - g) Contractor shall obtain and pay for any permits, inspections, or certifications from governing authorities having jurisdiction over the work to be performed, or over the finished product to be installed by this Contractor. Project Building Permit is by others. Include in this contract. hydrant use permits and temp electric hook-up fees from power company at CTE site, unless a generator is provided.
- G. The Work of the General Construction Contract includes but is not limited to, the following descriptions
- a) Provide protection to all materials to remain intact.
  - b) Provide all fall and perimeter protection
  - c) This trade is responsible to maintain a secure site at all times, including but not limited to locking all gates at the end of each day.
  - d) This trade to maintain a clean, dust and debris free roadway outside of the site perimeters.
  - e) Build and maintain stone tracking pads at each entrance and exit to the site if applicable.
  - f) Provide topsoil and seeding on all disturbed areas as directed by the CM.

- g) Provide all sheathing and shoring to perform the work of this trade
- h) Removal of finishes noted on plans including but not limited to flooring, ceilings, Roofing, misc., building materials and misc. items attached to existing walls to be removed.
- i) Removal and disposal of miscellaneous equipment including all existing wall mounted specialty items and/or equipment not shown if impacting work to be demolished. Coordinate shutdown of water and or electric associated with the area of demolition. See demolition plans for additional demolition notes.
- j) Removal and disposal of equipment and materials as indicated on the drawings.
- k) All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, saw cuts of existing slabs/footings, ceiling removal and replacement, etc. This trade contractor will be responsible for other trades openings (cutting and infill) if structural support is required.
- l) Provide temporary access and continuous exits in and out of all construction areas.
- m) Provide dust protection. Water use is the preferred option.
- n) Provide all temporary partitions, egress doors/gates, and temporary egress parameters indicated by the CM within the site and existing occupied building. Restore all areas to original condition upon completion.
- o) Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 5000, "Temporary Facilities and Controls"
- p) Provide all temporary fall protection, guardrails, handrails, , temporary stairs and ramps as required. Include maintaining these items throughout the project as well as removal when no longer needed.
- q) Provide Temporary storage for salvaged materials as indicated on the drawings until reinstallation of such materials.
- r) Provide temporary driveway, parking lot paving and drainage if required.
- s) Areas modified for construction/staging to be placed back to its natural state once construction is complete.
- t) Provide all site signage as requested by the CM. Example; Gate A-B, Hard hat area, No smoking, Construction personnel only, Exit signs, Project information sign, Etc.
- u) General Construction Contractor shall obtain and pay for any permits, inspections, or certifications from governing authorities having jurisdiction over the work to be

performed, or over the finished product to be installed by this Contractor. Project Building Permit is by others. Include in this contract. hydrant use permits

- v) Provide all roofing work for existing and new additions. Roof blocking and plywood, including:
  - 1) Provide roof penetrations and blocking for mechanical equipment curbs furnished by MECHANICAL/PLUMBING CONSTRUCTION contractor. Roof drains are to be furnished by the MECHANICAL/PLUMBING CONSTRUCTION contractor and installed by the General Construction Contractor. MECHANICAL/PLUMBING CONSTRUCTION contractor to coordinate with General Construction Contractor.
  - 2) For cutting holes through existing deck, the following shall apply:
    - a) General Construction contractor shall cut and remove material.
    - b) All contractors requiring holes shall provide the necessary layout.
    - c) Temporary and final roofing and weather-tight protection for roof at new additions shall be by the General Construction Contractor.
    - d) See H and P drawings for extent of work.
- w) Contractor shall provide paint, stone, brick, ceiling tile, gypsum, plaster and floor tile patch to match existing at the following conditions (patching shall commence one tile distant from the affected areas):
  - 1) At all removed existing walls.
  - 2) At all removed existing millwork and casework items.
  - 3) At all removed existing console unit ventilators as shown on the drawings: Louvers shall remain. GC to infill openings per details provided and patch to match existing floor at areas where old UV's are removed.
  - 4) At all relief grills removed in corridors.
  - 5) At all new door openings cut through existing walls.
  - 6) At all new walls in existing construction. At all removed existing walls.
- x) Provide (unless noted otherwise):
  - 1) Provide interior equipment and housekeeping pads for all Prime Contracts, coordinate as necessary for size and locations.
  - 2) Include in base bid to furnish and install the following access doors beyond those already shown on drawings:
    - a) Four 18" x 18" fire-rated access doors for gypsum wallboard construction.
    - b) Four 18" x 18" fire-rated access doors for masonry construction.
    - c) Four 12" x 12" stainless steel access doors for masonry construction.
    - d) Four 8" x 8" non-rated, primed steel, trimless, access doors for gypsum wallboard construction.

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## SUMMARY – MULTIPLE PRIMES

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- y) Provide and install window shades
  - z) Salvage and reinstall ceiling tile as indicated.
  - aa) Provide and install in an addition to the contract allowance, seven boxes of new ceiling tile to match existing as part of base bid
  - bb) Include all site work in this contract
  - cc) The use of a surveyor for new addition layout by General Contractor.
  - dd) Work at the interior of the existing building will take place on a night shift from roughly February 2022 until summer of 2022. See schedule for dates that may change based on situation and materials.
  - ee) Provide engineered shoring plan at the cafeteria wall opening for Architect review.
  - ff) All underground utilities excluding electrical is the responsibility of the general contractor.
  - gg) All access doors to be provided and installed by the general contractor.
  - hh) All concrete, rebar and forms provided and installed by the general contractor.
  - ii) All fine cleaning at the end of each night shift will be the responsibility of this contractor. A \$500 fine will be assessed for each night this is not successfully performed.
  - jj) All ceiling removal and replacement for other trades will be the responsibility of this trade, including night shift work.
- H. The Work of the General Construction Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:
- a) Division 00 – Procurement and Contracting Requirement, all Sections.
  - b) Division 1 –General Requirements, all Sections, including Temporary Facilities indicated.
  - c) Division 2 – Selective Structure Demolition
  - d) Division 3 – Concrete, all Sections.
  - e) Division 4 – Masonry, all Sections.
  - f) Division 5 – Metals, all Sections.
  - g) Division 6 – Woods, Plastics and Composites, all Sections.
  - h) Division 7 –Thermal and Moisture Protection, all Sections
  - i) Division 8 – Openings, all Sections
  - j) Division 9 – Finishes, all Sections.
  - k) Division 10 – Specialties, all Sections
  - l) Division 11 – Equipment, all Sections, all Sections

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SUMMARY – MULTIPLE PRIMES

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- m) Division 12 – Furnishings, all Sections
- n) Division 31 – Earthwork All sections
- o) Division 32 – Exterior Improvements
- p) Division 33 – Utilities, all Sections

#### 1.8 CONTRACT 2 - MECHANICAL CONTRACT

- A. Work of this Contract includes, but is not limited to, the following descriptions:
  - a) New mechanical units, piping, connections, and startup. Demolition and removal of old equipment and associated hardware, ductwork, RTU's, balancing, Etc.
  - b) All "Title sheets, general notes, code compliance and Phasing Drawings"
    - a) All "G" Drawings" (General)
    - b) All "A" Drawings (Architectural) For coordination
    - c) All "H" Drawings (Mechanical)
    - d) All "P" Drawings (Plumbing)
    - e) All "U" Drawings (Universal)
- B. Work of this Contract includes, but is not limited to, the following descriptions:
  - a) Includes HVAC Equipment, Piping, ductwork, control systems, plus other construction operations traditionally recognized as heating, ventilating and cooling work. This includes, but is not limited to, all work shown on the "H" drawings, and applicable information shown on the "A" "P" "E" drawings, unless noted otherwise. It also includes Administrative and coordination responsibilities.
  - b) Coordination:
    - 1) Coordination with the work of all of the other contractors.
    - 2) Each trade will participate in producing coordination drawings. The mechanical, Plumbing and electrical contractors will overlap their new work and coordinate locations, heights, routes, Etc. to eliminate hits and or obstructions from existing or new work. Each trade will meet once a week to coordinate their drawings. Ductwork and mechanical piping first, plumbing second and electrical third. A full set of coordination drawings must be completed within four weeks after award of contract.
  - c) Demolition
    - 1) Provide demolition of all HVAC equipment and piping as shown and as required at the existing building. Salvage equipment for reinstallation as indicated on the drawings.
    - 2) All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, saw cuts, lintels (furnish and install), drywall work, plaster work, grouting, painting, ceiling removal and replacement, etc.
  - d) Temporary Facilities
    - 1) Provide Temporary Facilities indicated as Work of this Contract in Division 1 "Temporary Facilities and Controls"

2) Temp Heat for all trades work to be provided by this trade and as directed by the CM.

e) Construction:

- 1) the General Construction Contractor is to provide rough opening in walls that require structural support. Submit to the Construction Manager the name and qualification of the subcontractor performing the installation prior to starting the work.
- 2) The General Construction Work Contract shall perform all necessary trenching and excavation, backfilling, and compaction and field required concrete for all other primes.
- 3) All low voltage for HVAC equipment by this trade.
- 4) Provide and install all controls components into air and hydronic systems as required maintaining the integrity of the system:
  - a) Install motor actuated dampers.
  - b) Install airflow measuring stations.
  - c) Install airside temperature and pressure sensors.
  - d) Install hydronic control valves.
  - e) Install hydronic temperature and pressure sensor wells
  - f) Provide TAB and participate in commissioning work of the EMCS as required for controls of the work of this contract.
  - g) Provide all ductwork as indicated on the drawings
  - h) Lifts and scaffold for means and methods of installation of work under this trade the responsibility of the trade.
- 5) Provide and install new RTUs and associated Condensing Units.
- 6) Provide and install Hydronic and refrigerant piping and pumps
- 7) Provide and install new exhaust fans and ductwork as shown.
- 8) Provide and install unit heaters and humidifiers
- 9) Provide and install Air Handling Units and Roof top units
- 10) Provide all equipment as scheduled on drawing H900, H901, and H902
- 11) Provide new connections to shop equipment
- 12) Provide and install new unit heaters, piping controls.
- 13) Provide contractor filters, final replacement filters and final duct cleaning.
- 14) Provide and install all insulation, painting and labeling of new and modified piping, ductwork and equipment as required.
- 15) Provide all testing, adjusting and balancing of all new and existing modified HVAC systems.
- 16) All fees required for inspections and permits.
- 17) Provide support framing for HVAC equipment, i.e. mechanical equipment curbs.
- 18) Provide firestopping and sealing at all HVAC penetrations
- 19) Furnish motor controllers/disconnects to Electrical Contract for installation and wiring.
- 20) Provide the necessary layout for all roofing penetrations to the General Work Contractor. Provide curbs for mechanical equipment.



- 21) Provide owner training / commissioning of equipment more than once if needed.
  - 22) Work at the interior of the existing building will take place on a night shift from roughly February 2022 until summer of 2022. See schedule for dates that may change based on situation and materials.
  - 23) Provide replacement of all new unit filters on start up.
- f) Controls:
- 1) Manufacturers: Johnson controls, Inc., Controls Group., All controls shall be comparable with the Johnson facility explorer system that has been recently installed and part of the Energy Performance Contract. All control equipment including but not limited to wiring, modules, etc. shall be removed from the existing equipment, salvaged, and re-installed on the new equipment with the exception of the valves. New valves will be provided by the Owner for installation by the Mechanical Contractor for the existing units being replaced. In the Classrooms, most new units relocate from floor mounted to ceiling mounted units. All new equipment (equipment new to the building, not replacing existing equipment) shall receive all new controls including but not limited to low voltage wiring, equipment boards, modules, valves, etc. provided by the Mechanical Contractor. The front-end equipment shall not be replaced. However, the program shall be adjusted to accommodate the new chilled water component and newly equipment. Existing thermostats for replacement units shall remain unless noted otherwise on the drawings. New units to the building get new thermostats.
- g) General Requirements:
- 1) including but not limited to, additional items specifically indicated as the Work of this Contract.
  - 2) multiple shifts work and Saturdays is mandatory, see schedule for details.
- C. The Work of the MECHANICAL/PLUMBING CONSTRUCTION Work Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:
- a) Division 00 –Procurement and Contracting Requirement, all Sections.
  - b) Division 01 –General Requirements all Sections, including Temporary Facilities indicated
  - c) Division 02 – Demolition as required for the Work of this Contract
  - d) Division 05 – Metals as required for the Work of this Contract
  - e) Division 07 Thermal and moisture protection as required for the Work of this Contract
  - f) Section 078400, Firestopping, as required for the Work of this Contract
  - g) Section 079200 Joint Sealants
  - h) Division 22 – Plumbing, all Sections
  - i) Division 23 – HVAC, all Sections.
  - j) Division 26 – Electrical as required for the Work of this Contract

## 1.9 CONTRACT 3 - ELECTRICAL WORK CONTRACT

- A. Work of this Contract includes, but is not limited to, the following descriptions:
- a) Includes Electrical Distribution Service, Lighting, CATV systems, Communications, Fire Alarm, Intercom Systems, Security Systems, Emergency Lighting, and other systems traditionally recognized as Electrical work. This includes but is not limited to, all work shown on the “E” as it relates to your scope of work, and applicable information shown on the
    - 1) All “G” Drawings (General)
    - 2) All “A” Drawings (Architectural) As required for the work of this contract
    - 3) All “H” Drawings (Mechanical) As required for the work of this contract
    - 4) All “P” Drawings (Plumbing) As required for the work of this contract
    - 5) All “E” Drawings (Electrical)
    - 6) All “U” Drawings (Universal)
  - b) Coordination:
    - 1) Coordination with the work of all of the other contractors.
    - 2) Each trade will participate in producing coordination drawings. The mechanical, Plumbing and electrical contractors will overlap their new work and coordinate locations, heights, routes, Etc. to eliminate hits and or obstructions from existing or new work. Each trade will meet once a week to coordinate their drawings. Ductwork and mechanical piping first, plumbing second and electrical third. A full set of coordination drawings must be completed within four weeks after award of contract.
  - c) Demolition:
    - 1) Removal of items as shown and/or required.
    - 2) Removal and disconnections of electrical devices in walls, ceilings and floors scheduled to be removed in the portion of the building to remain.
    - 3) Removal of lighting fixtures scheduled to be removed in the portion of the building to remain.
    - 4) Coordinate with the General, and Mechanical/Plumbing Construction Work Contractor for necessary shutdowns and disconnects.
    - 5) Removal of exterior lighting fixtures and wiring.
    - 6) All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, saw cuts, drywall work, plaster work, grouting, painting, ceiling removal and replacement, etc.
  - d) Temporary Facilities
    - 1) Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 5000, “Temporary Facilities and Controls”
    - 2) Provide night/day security camera system with DVR and monitor for the purpose of the construction staging/yard security during the construction

schedule only. System will be equipped with local and remote access. System will be set up in location chosen by the CM.

- 3) Provide power connection to CM trailer.
  - 4) Provide temporary lighting at construction staging/yard area
  - 5) Provide temp and permanent power outlets, panels and connections for other trades tools and equipment.
- e) Construction:
- 1) The General Construction Work Contract shall provide all openings in walls, floors, and roofs for all other Prime Contractors, that require lintels, and structural framing only. All other openings will be the responsibility of this trade.
  - 2) The General Construction Work Contract shall perform all necessary trenching and excavation, backfilling, and compaction and field required concrete for all other primes.
  - 3) Provide recessed floor outlets as shown on the plans.
  - 4) Provide ALL power wiring to ALL HVAC and Plumbing equipment. (Install motor controllers/disconnects supplied by Mechanical/Plumbing Construction Contract)
  - 5) Provide all interior and exterior lighting including lighting control.
  - 6) Provide all fire alarms, CATV, and networking systems.
  - 7) Provide public address systems, including full installation and training.
  - 8) Provide all cutting and patching required installing all electrical fixtures, devices, wire and conduit.
  - 9) Provide all fees required for inspections and permits.
  - 10) Provide support framing for Electrical equipment and conduits.
  - 11) Furnish access doors for electrical access (to be installed by GC)
  - 12) Provide firestopping and sealing of all electrical penetrations
  - 13) Provide owner training
  - 14) Provide and maintain a temporary electric service, including lighting and power, for the site office trailers off of the temporary service being provided above. Maximum of 1 trailer per Prime Contractor. Each trailer to have a

13940.18

## SUMMARY – MULTIPLE PRIMES

011200 - 21

100 amp, 240 Volt single-phase connections. Assume a diversified peak connected load factor of 12KW per trailer.

- 15) All underground electrical utility work is the responsibility of this contractor.
  - 16) Provide new building service as shown on the drawings
  - 17) This trade responsible for all communications and coordination with utility companies.
  - f) General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.
  - g) Multiple shifts work 6 days a week is mandatory Interior work will take place during the night shift until summer 2022.
  - h) Theatrical lighting and rigging is a part of this scope of work.
- B. The Work of the Electrical Work Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:
- a) Division 00 –Procurement and Contracting Requirement, all Sections.
  - b) Division 1 –General Requirements all Sections, including Temporary Facilities indicated
  - c) Division 7 – Section 078400, Penetration Firestopping and 079200, Joint Sealants, as required for the Work of this Contract.
  - d) Division 10 – Specialties -Section 102239, folding panel partitions (as it relates to this contract for power connections to equipment)
  - e) Division 19 – Theatrical – Section 191000 Performance Sound System and Section 192000 Theatrical Lighting Systems
  - f) Division 22 - All sections (as relates to this contract for power connections to equipment)
  - g) Division 23 - All sections (as relates to this contract for power connections to equipment)
  - h) Division 26 - Electrical - All Sections.
  - i) Division 27 – Communications installation - All Sections
  - j) Division 28 – Cabling for electronic safety and security - All Sections

#### 1.10 TESTING

- A. Required testing and test procedures are indicated under each Division of the Technical Specifications. Other testing shall be performed per generally accepted standards.
- B. The Architect shall reserve the right to require additional information as is deemed necessary to fully evaluate testing results.

13940.18

SUMMARY – MULTIPLE PRIMES

011200 - 22

- C. The Owner shall employ and pay for an independent testing and inspection agency for testing requirements of their work as assigned by this scope of work. All testing shall be per technical specification requirements. The Prime Contractor requiring testing will notify the Construction Manager twenty-four hours in advance of the required testing to allow for coordination and scheduling. Failure to give sufficient notice will require the prime contractor to pay for alternate testing to satisfy the specification.

#### 1.11 WORK SEQUENCE

- A. The Work will be conducted to provide the least possible interference to the activities of the Owner's personnel.
- B. Work cannot be performed in occupied areas. Work shall be scheduled off-hours, vacations, and weekends for occupied areas if applicable. A Construction Manager Superintendent must be on site at all times that work is being performed. If a contractor fails to maintain the progress as indicated by the milestone schedule by no other fault but its own and requires overtime to complete the work; the contractor shall make arrangements with the Construction Manager 24 hours in advance and pay for a Construction Manager's superintendent at \$150.00 per hour. In the event that the cause for delay is multi-contract, then the costs shall be distributed evenly among contracts. Advise the Construction Manager 48 hours prior to commencing work inside the building.
- C. Coordination of any utility and/or power interruption must be done with the Construction Manager. Shutdowns must occur during off-hours and on days when the building is not occupied by the owner.
- D. Construction access to the site shall be limited to those designated for contractor's personnel, equipment and deliveries by the Owner. Contractors' staging, parking and storage shall be coordinated by the Construction Manager.
- E. Each Contractor shall inspect the site and review the AHERA report on file for the presence of asbestos. Unless otherwise noted, there will be asbestos containing material in place that will require work to take place in the vicinity of, around and/or next to. Each prime contractor that will be working above ceilings, demolishing, in crawl spaces, boiler rooms and all other areas that may contain asbestos per the AHERA report, shall employ "Allied Trades: certified/licensed tradesman as part of the onsite workforce".

#### 1.12 OCCUPANCY REQUIREMENTS

- A. The General Work Contractor (Contract #1) shall provide Outdoor air quality management as specified by the Department of Labor and OSHA during construction
  - a) Provide an exhaust air system for the project indoor areas that could produce fumes, VOC's off-gasses, gasses, dusts, mists, or other emissions.
  - b) Exhaust air system for the project areas that could produce emissions listed in Paragraph 'a' shall be utilized.
  - c) Provide Water for dust control.
- B. Quality assurance:
  - a) Maintain a negative pressure between the work area and the space surrounding the work area.

13940.18

SUMMARY – MULTIPLE PRIMES

011200 - 23

- b) Before start of work, submit a design for the exhaust air system. Do not begin work until approval of the Owner is obtained.
- a) The number of machines required.
- b) Location of the machines in the workspace.
- c) Description of the methods used to test air flow and pressure differential.

C. System operation:

- a) A sufficient quantity of exhaust fans in existing window openings or other approved locations shall be operated in accordance with the following applicable standards.
- b) Exhaust air system shall operate for a minimum of 72 hours after work is completed, or until all materials have cured sufficiently as to stop out gassing of fumes or odors and area has been ventilated to remove all detectable traces of odors and fumes.
- c) Maintain twenty-five (25) feet clearance from all temporary exhaust outlets to all active building outdoor air intakes.

1.13 PROJECT MILESTONE SCHEDULE

- A. See the milestone schedule in Section 000550.
- B. All Prime Contractors are required to submit a schedule based on the milestone dates to the Construction Manager for review and comment no later than 10 days after a Notice to Proceed for the work is issued.
- C. This is a 6 day a week double shift mandatory project

1.14 ALLOWANCES

- A. See Specification Section 01 2100.

1.15 ALTERNATES

- A. The Contractor shall state where requested on the Bid Form the amount to be added to or deducted from the base bid for the alternates described in Section 012300 - Alternates.

END OF SECTION 011200





Google Earth

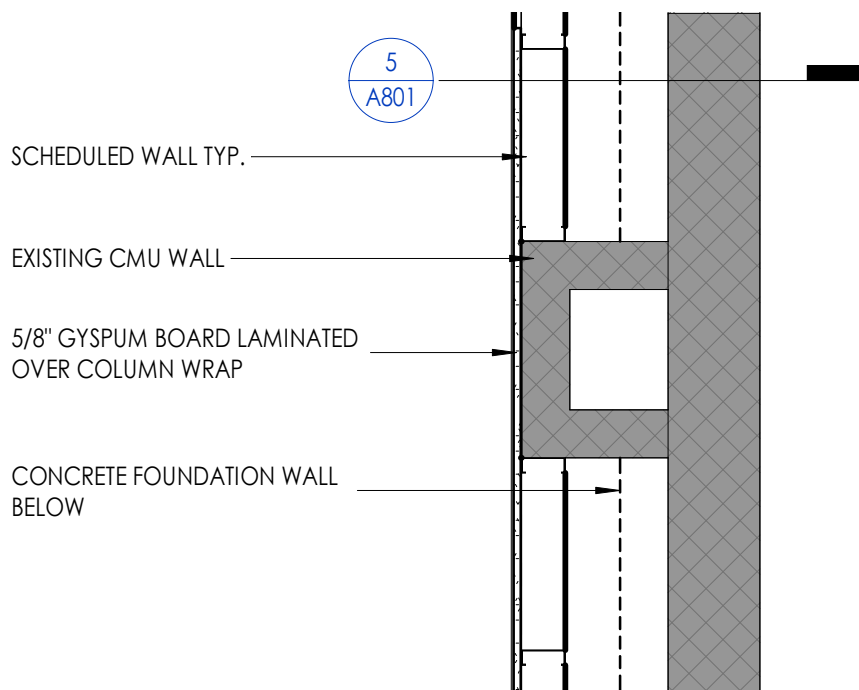
Landsat / Copernicus

60 m

Camera: 477 m

- Night Shift Fall 2021 / Summer 2022**  
 .Gym Mechanical systems  
 .Hallways piping and duct work  
 .Classroom/Hallway Ceilings removed and reinstalled.  
 .Areas cleaned and back to normal for day school activity
- Summer 2022**  
 .Complete Gym mechanicals.  
 .Completely renovate cafeteria  
 .Open Hallway & Classroom Ceilings to install new mechanical units  
 .Tie new addition into cafeteria  
 .Exterior sidewalks and roadways
- Day Shift fall 2021 / Summer 2022**  
 New Addition construction from start to finish / entire length of schedule

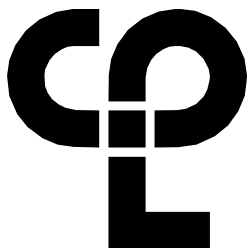
Logistic Plan



6  
A801

## WALL FURRING DETAIL - ALTERNATE

3/4" = 1'-0"



**CPL**

50 FRONT ST. SUITE 202  
NEWBURGH, NY 12550

**CPLteam.com**

Project Number

13940.18

Client Name

**NEWBURGH ENLARGED CITY SCHOOL DISTRICT**

Project Name

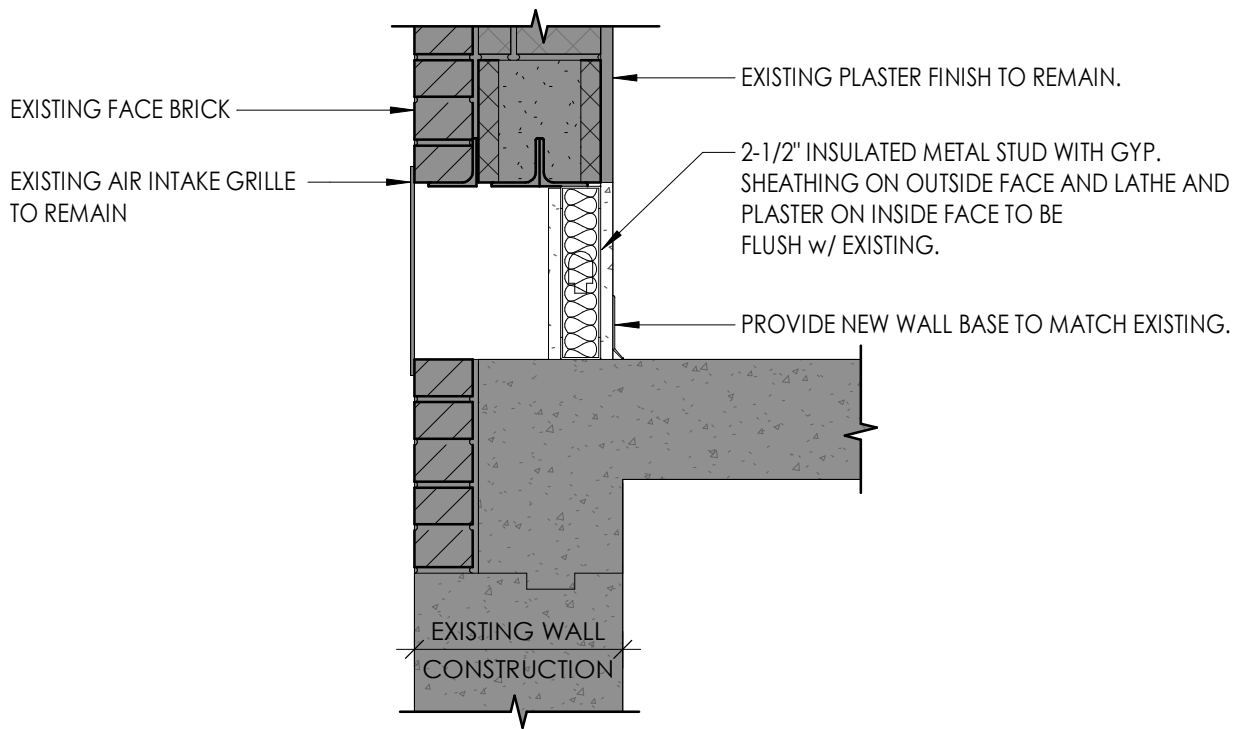
**PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL  
IMPROVEMENT PROJECT**

Issue Date

09/21/21

AD 01  
SK-A01

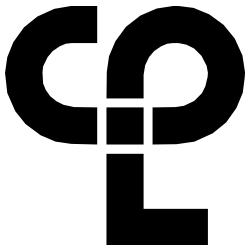




10  
A801

## TYP. UNIT VENTILATOR INFILL DETAIL

1" = 1'-0"



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50 FRONT ST. SUITE 202  
NEWBURGH, NY 12550

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Project Number

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**NEWBURGH ENLARGED CITY SCHOOL DISTRICT**

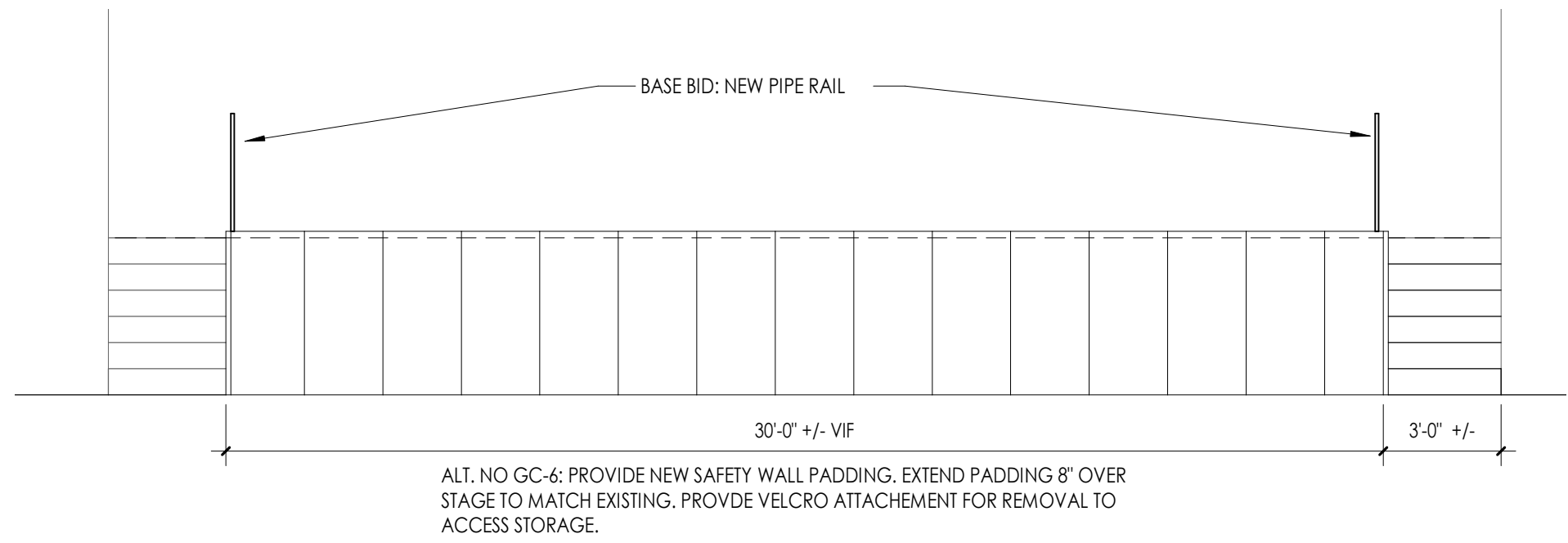
Project Name

**PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL  
IMPROVEMENT PROJECT**

Issue Date

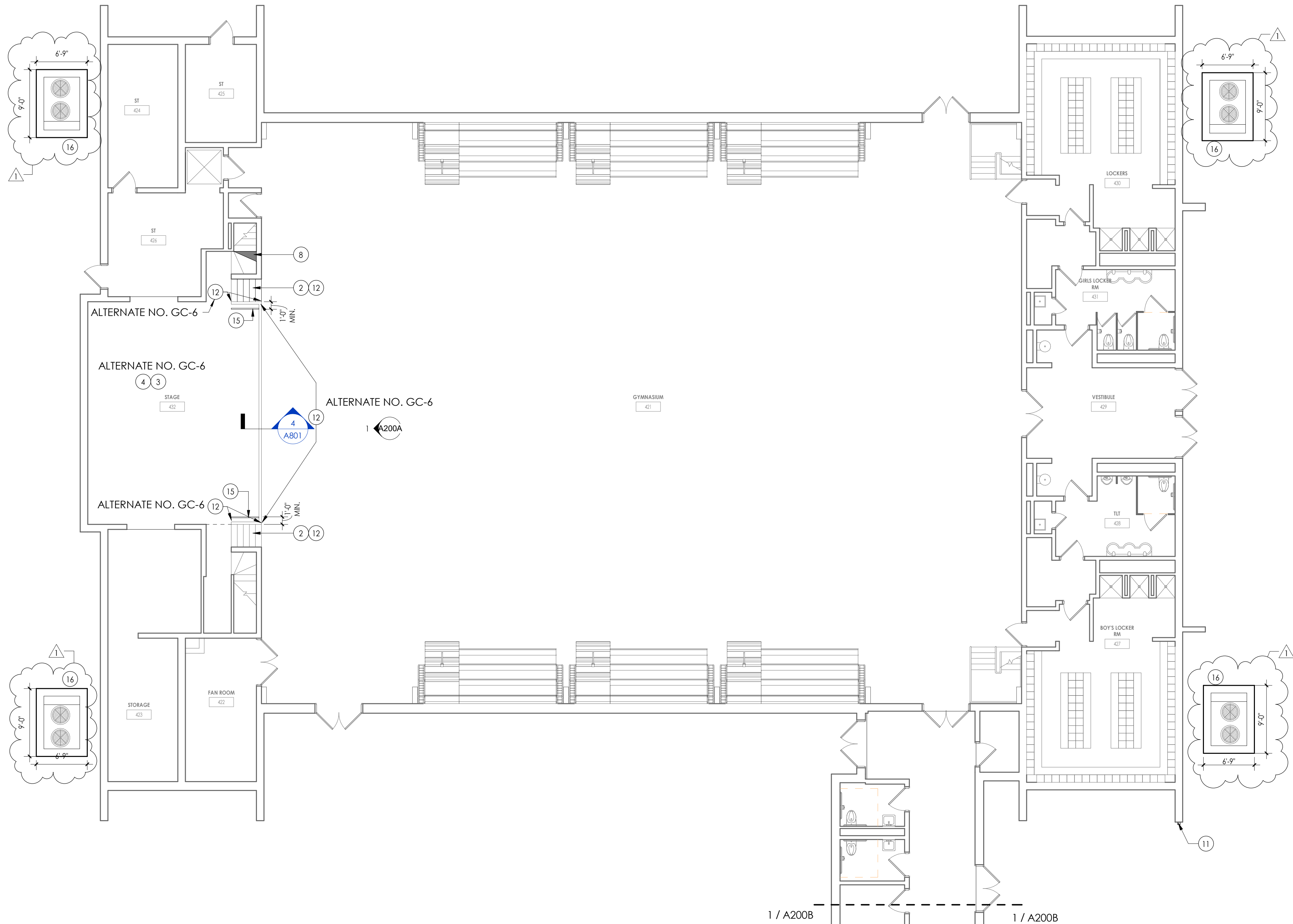
09/21/21

AD 01  
SK-A02



1  
A200A  
1/4" = 1'-0"

**GYM STAGE INTERIOR ELEVATION**



2  
A200A  
1/8" = 1'-0"

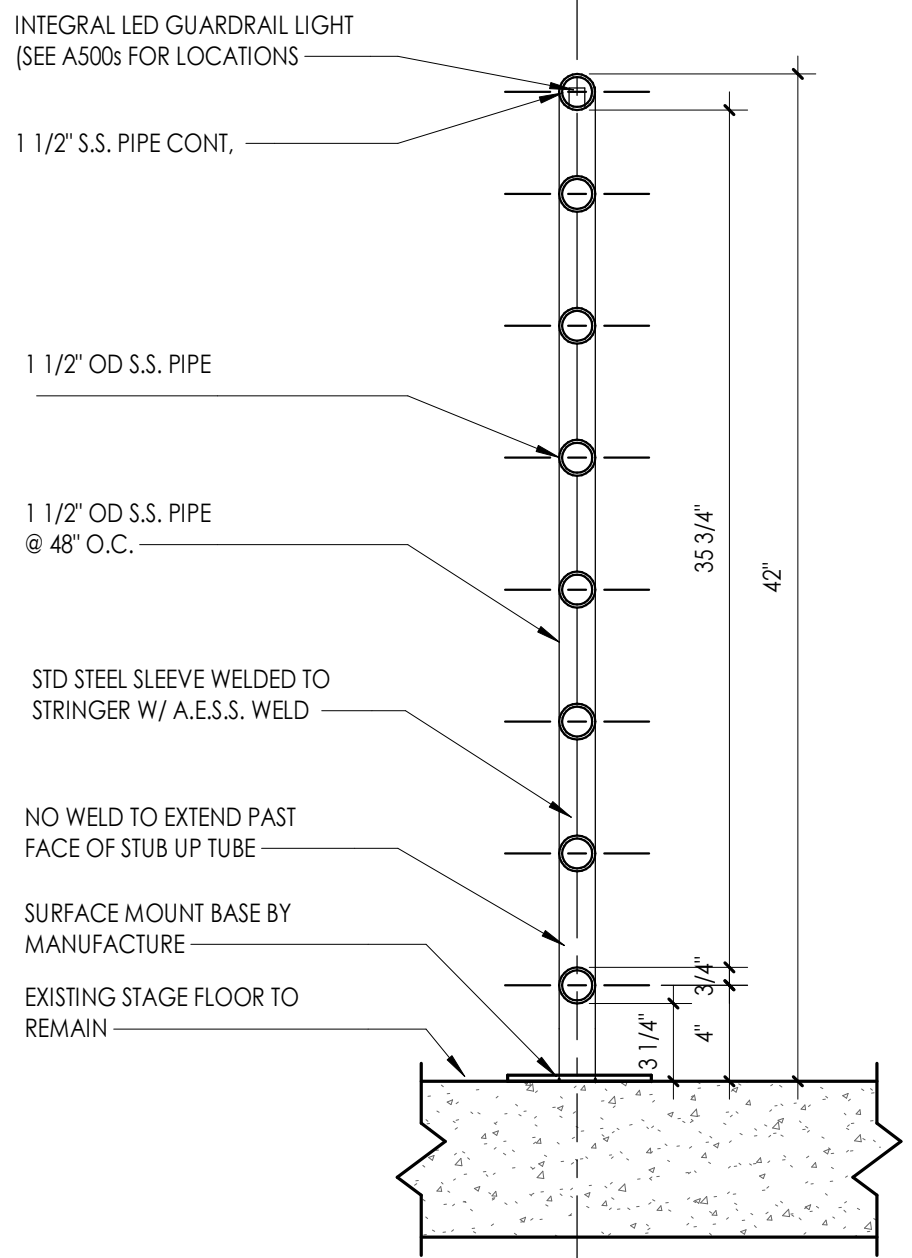
**GROUND FLOOR AREA A - NEW WORK**

**FLOOR PLAN GENERAL NOTES**

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF NEW MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE TO FIRESTOP ALL NEW PARTITIONS TO THE STRUCTURAL DECK ABOVE. FIRESTOPPING HEADS OF WALLS IS TO OCCUR AT ALL NEW WALL CONSTRUCTION WITHIN THE PROJECT.
3. ALL WALL DIMENSIONS INDICATED ON FLOOR PLANS ARE TO FACE OF STUD FRAMING OR MASONRY UNLESS OTHERWISE NOTED.
4. SEE SHEET A400 FOR INTERIOR PARTITION TYPES
5. SEE A900s FOR INTERIOR AND EXTERIOR DOORS, WINDOWS, CURTAINWALLS, AND STOREFRONTS
6. PROVIDE AN EDGE/TRANSITION STRIP CENTERED UNDER ALL DOORS WHERE ADJACENT FLOOR FINISHES ARE OF DIFFERENT MATERIALS.
7. PROVIDE ACCESS PANELS, MINIMUM 24" x 24", OR OF SIZES REQUIRED, WHERE PLUMBING AND HEATING VALVES, WATER SWITCHES, VENTILATION SPLITTER DAPMERS, ETC. ARE SHOWN ON PLUMBING, HEATING AND VENTILATION DRAWINGS.
8. WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE LEFT BROOMED CLEAN AT END OF EACH DAY.
9. ALL DOORS AND WINDOW SYSTEMS TO HAVE SEALANT AROUND THE ENTIRE PERIMETER (BOTH SIDES) OF FRAMES
10. CONTRACTOR TO COORDINATE WITH OTHER TRADES FOR SEQUENCING OF WORK.
11. REFER TO A700 FOR TYPICAL FIXTURE MOUNTING HEIGHTS AND ACCESSORIES LEGEND.

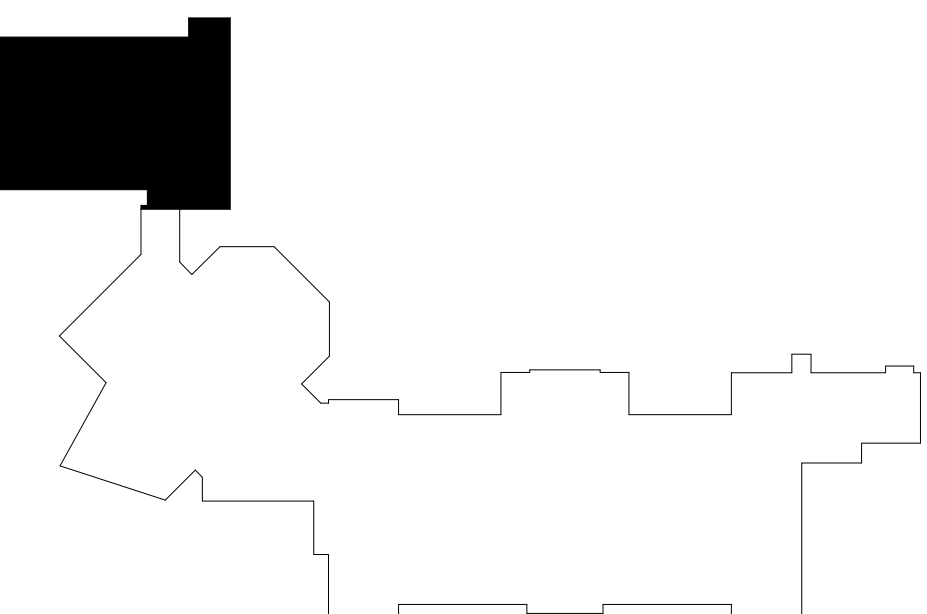
**FLOOR PLAN KEY NOTES**

1. PATCH TO MATCH FLOOR AT MECHANICAL EQUIPMENT REMOVAL WHERE INDICATED BY HATCH. PROVIDE NEW FINISHED END PANELS AT CASEWORK AFFECTED BY UV REMOVALS. MATCH EXISTING FINISH AND COLOR
2. NEW RUBBER STAIR RISERS AND TREADS. REFER TO INTERIOR DRAWINGS.
3. ALTERNATE - PROVIDE NEW WOOD FLOORING AT EXISTING STAGE AREA. REFER TO INTERIOR DRAWINGS FOR FLOOR FINISH.
4. NEW LIGHTING, SOUND AND STAGE RIGGING. COORDINATE WORK WITH EC. REFER TO TL, TR, TS SERIES.
5. PROVIDE NEW COLUMN WRAP. REFERENCE DETAIL ON A800.
6. PROVIDE NEW CEILING HUNG OPERABLE PARTITION.
7. PATCH EXISTING WALL. COORDINATE WORK WITH M.C. REFER TO A801 FOR DETAILS. GC TO PAINT SURFACE CORNER TO CORNER AND FLOOR TO CEILING TO MATCH EXISTING COLOR.
8. PROVIDE NEW WOOD STAIR TREAD TO MATCH EXISTING. REPAIR ANY MOUNTING COMPONENTS AS NECESSARY.
9. NEW DRINKING FOUNTAIN. COORDINATE WORK WITH PLUMBING CONTRACTOR.
10. PATCH CONCRETE S.O.G. TO MATCH EXISTING.
11. PROVIDE NEW DOWNSPOUT. COORDINATE WORK WITH CIVIL DRAWINGS.
12. PROVIDE NEW SAFETY WALL PADDING. PROVIDE FASTENING SYSTEM TO ENSURE TEMPORARY REMOVAL AND REINSTALLATION.
13. PATCH TO MATCH EXISTING WALL, BASE, FLOOR AND CEILING FINISHES IN AREAS AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION.
14. LAMINATE 5/8" GYPSUM BOARD OVER CMU WALL.
15. NEW PIPE RAIL. REFER TO DETAIL 3/200A
16. CONCRETE MOVEMENT ALLOWED EQUIPMENT PAD. REFER TO DETAIL 6/SB02 AND H DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT SIZE AND LOCATION.

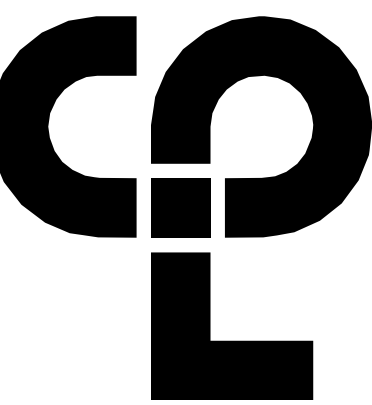


3  
A200A  
1 1/2" = 1'-0"

**HANDRAIL INTO CONCRETE**



**KEYPLAN AREA A**  
NTS



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50 FRONT ST. SUITE 202  
NEWBURGH, NY 12550  
CPLteam.com

**PROJECT INFORMATION**

Project Number  
13940.18  
Client Name  
NEWBURGH ENLARGED CITY  
SCHOOL DISTRICT

Project Name  
PHASE 3: HERITAGE MIDDLE  
SCHOOL 2019 CAPITAL  
IMPROVEMENT PROJECT

Project Address  
405 Union Avenue, New Windsor, NY 12553

SED Number  
44-16-00-01-0-039-011

**PROJECT ISSUE SCHEDULE**

No. Date Description  
1 09/21/21 BID ADDENDA 1

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

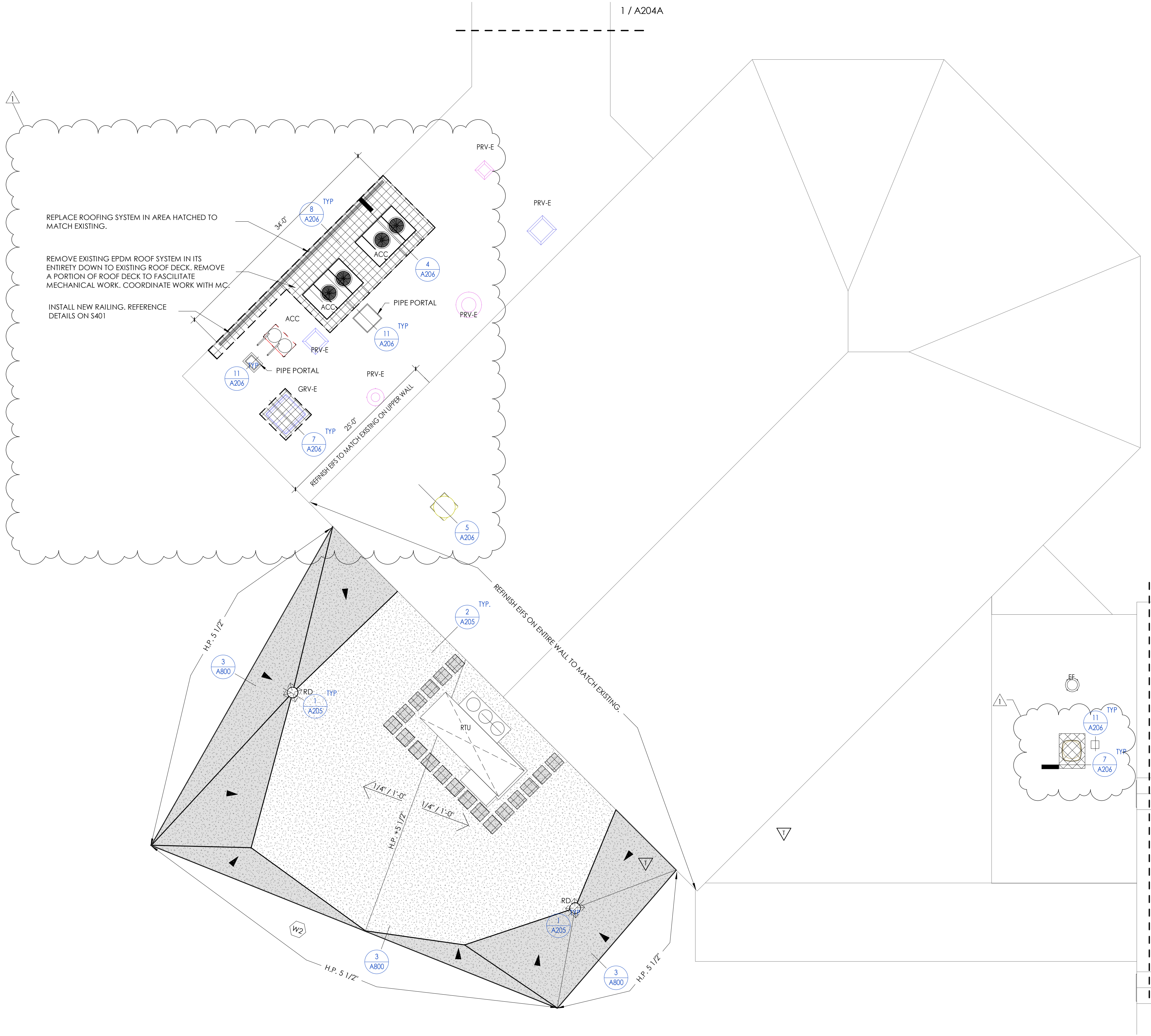
**SHEET INFORMATION**

Issued  
9/9/2021  
Project Status  
CONSTRUCTION DOCUMENTS  
Drawn By  
CPL  
Checked By  
CPL  
Drawing Title  
GROUND FLOOR AREA A - NEW  
WORK PLAN

Drawing Number

HMS  
A200A





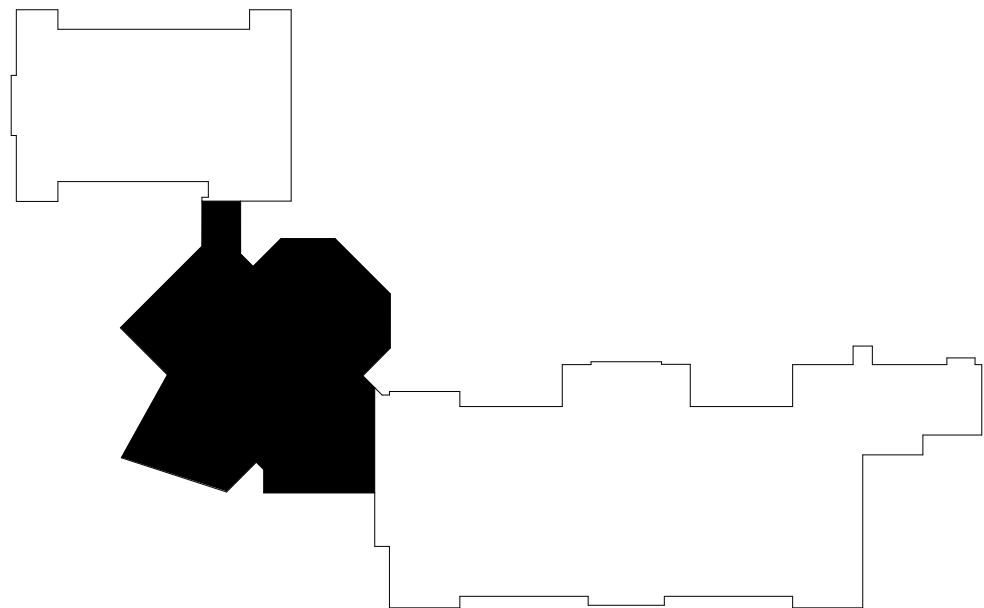
1  
A204B  
ROOF PLAN AREA B  
1/8" = 1'-0"

ROOF PLAN GENERAL NOTES

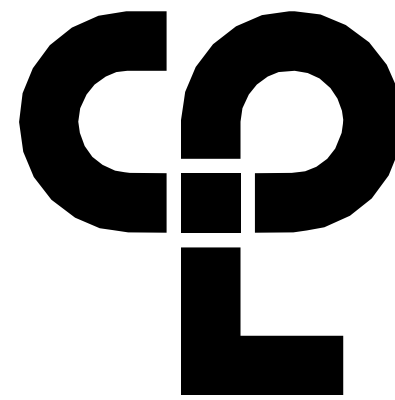
- ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.
- REFER TO ALL DRAWINGS IN THE SET FOR LOCATIONS OF ALL ROOF PENETRATIONS. PROVIDE FRAMING AS REQUIRED.
- CONTRACTOR SHALL PAINT ALL ROOF FASTENERS EXPOSED TO VIEW AT UNDERSIDE OF DECK TO MATCH.
- WORK AREAS SHALL BE MAINTAINED AND ALL WORK AREAS SHALL BE BROOM CLEAN AT THE END OF EACH DAY.
- ALL WOOD BLOCKING USED SHALL BE PRESSURE TREATED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL ROOF DRAINS AND CUTTING THE HOLES IN THE DECK FOR ANY DRAINS AND PROVIDING STRUCTURAL SUPPORTS.
- THE ROOF ELEVATIONS SHOWN ON THE PLAN ARE SHOWN TO ESTABLISH RELATIVE HEIGHTS OF THE INDIVIDUAL ROOFS.
- NO WEEP HOLES SHALL BE COVERED OR PLUGGED AS A RESULT OF THE ROOFING WORK, UNLESS OTHERWISE DIRECTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN WATER TIGHTNESS AND PROVIDE PROTECTION AT ANY/ALL OPENINGS IN THE ROOF LEFT AT THE END OF EACH DAY.
- PROVIDE CRICKETS FOR WATER DIVERSION AT ALL CURBS, RAILS, ETC. WHICH RUN PERPENDICULAR TO THE SLOPE OF THE INSULATION/SLOPED STRUCTURE.
- ALL ROOF TOP UNITS SHALL BE MOUNTED ON 16" MIN. INSULATED METAL CURBS. PROVIDE TAPERED INSULATION CRICKETS AS REQUIRED TO SHED WATER. WOOD BLOCKING SHALL BE PROVIDED SO CURBS ARE 8" ABOVE FINISHED ROOF SURFACE.
- THE MINIMUM INSULATION THICKNESS SHALL BE 5.5". SLOPE OF TAPERED INSULATION TO BE A MINIMUM OF 1/4" PER FOOT FOR NEW CONSTRUCTION AND 1/8" PER FOOT OVER EXISTING STRUCTURE.

ROOF PLAN LEGEND

RD	ROOF DRAIN W/ SECONDARY
H.P. XX"	SLOPED INSULATION HIGH POINT (MIN. 5 1/2")
	SLOPED INSULATION ROOF CRICKET. PROVIDE 1/2" / 1'-0" POSITIVE DRAINAGE
	MECH. CURB (W/ CRICKET). PROVIDE FLASHING PER ROOF MANUFACTURER'S DETAILS
1/4" / 1'-0"	ROOF SLOPE
	2'-0" x 2'-0" ROOF MEMBRANE WALKWAY SYSTEM
	NEW EPDM ROOF SYSTEM AS SPECIFIED



KEYPLAN AREA B  
NTS



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PROJECT INFORMATION

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13940.18  
Client Name

NEWBURGH ENLARGED CITY  
SCHOOL DISTRICT

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44-16-00-01-0-039-011

PROJECT ISSUE SCHEDULE

No.	Date	Description
1	09/21/21	BID ADDENDA 1

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SHEET INFORMATION

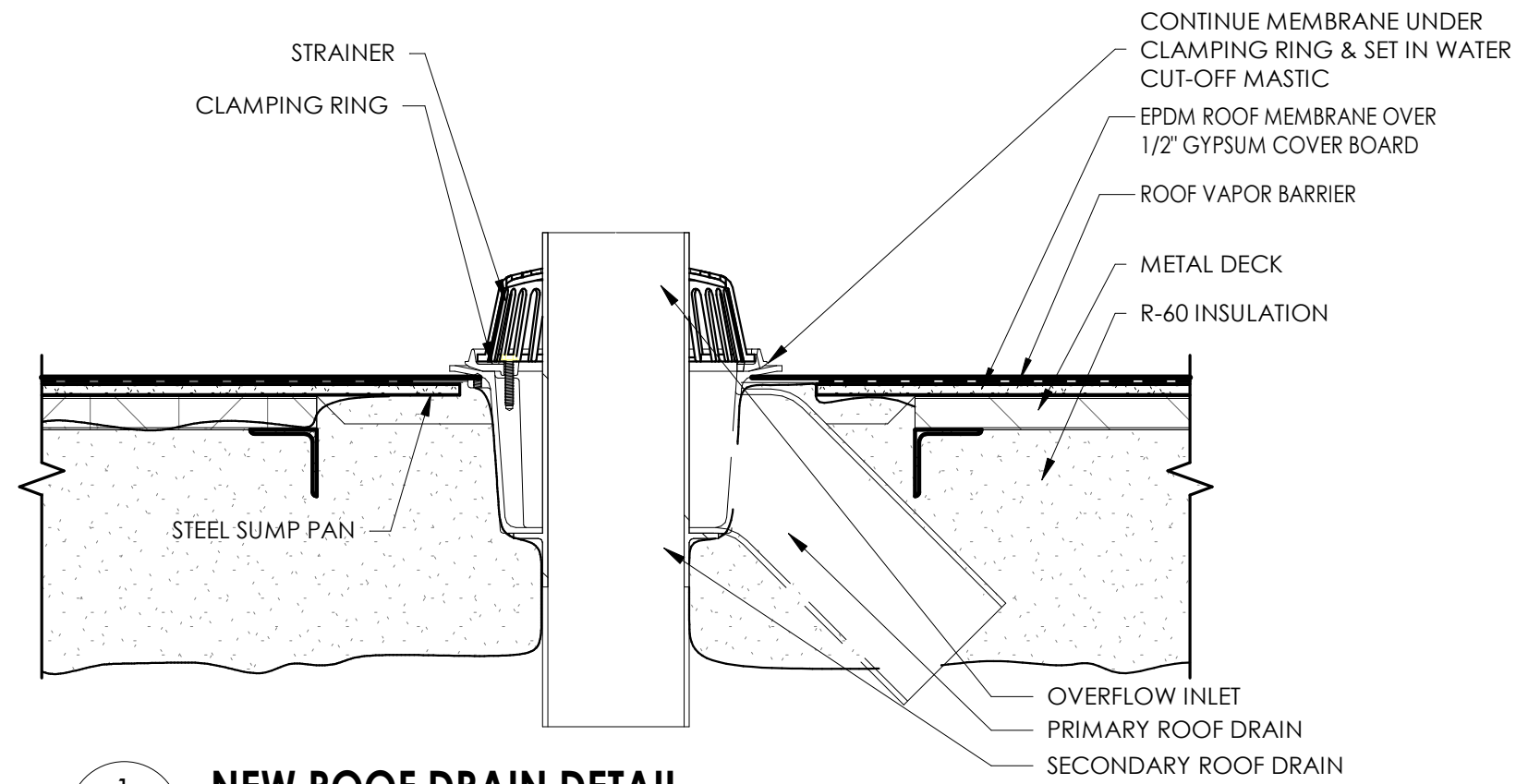
Issued	Scale
9/9/2021	As indicated
Project Status	CONSTRUCTION DOCUMENTS
Drawn By	Checked By
CPL	CPL
Drawing Title	

ROOF PLAN AREA B

Drawing Number

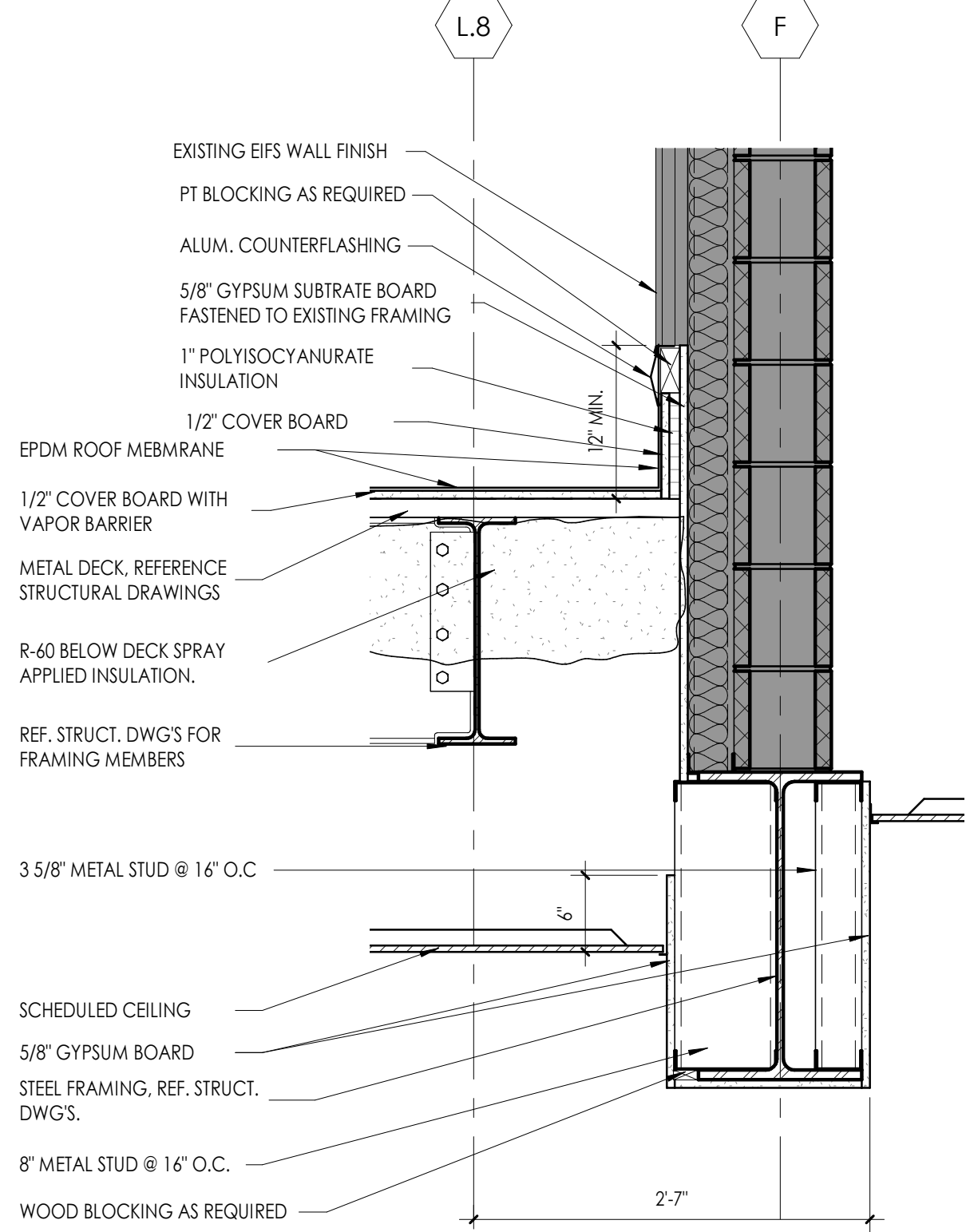
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A204B

S:\Projects\Newburgh ECSD\Heritage MS Addn & Reno\0 Design\06 Cldg\Revit 9/21/2021 11:23:55 AM



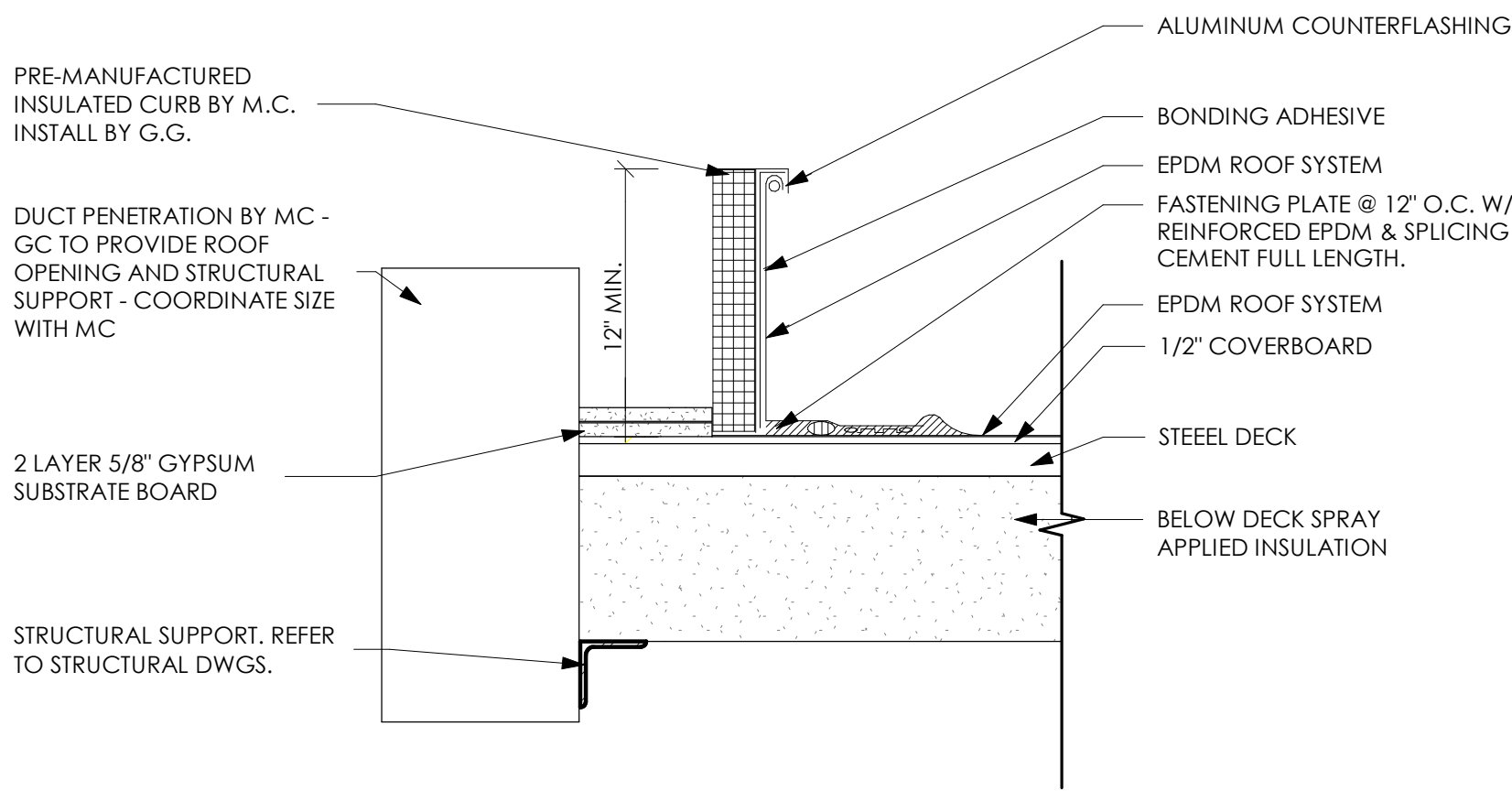
1 NEW ROOF DRAIN DETAIL

A205 1 1/2" = 1'-0"



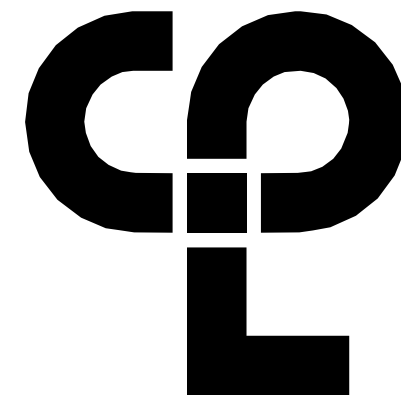
2 ROOF TO EXISTING WALL DETAIL

A205 1" = 1'-0"



3 TYPICAL ROOF CURB FLASHING DETAIL

A205 1 1/2" = 1'-0"



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No.	Date	Description
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SHEET INFORMATION

Issued	Scale
9/9/2021	As indicated

Project Status

CONSTRUCTION DOCUMENTS

Drawn By	Checked By
CPL	CPL

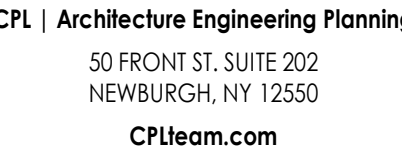
Drawing Title

ROOF DETAILS AT NEW ROOF

Drawing Number

HMS  
A205





Project Number  
3940.18

Project Name  
**PHASE 3: HERITAGE MIDDLE  
SCHOOL 2019 CAPITAL  
IMPROVEMENT PROJECT**

4-16-00-01-0-039-01

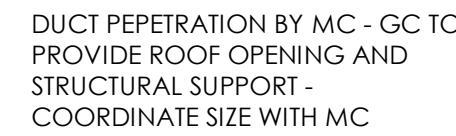
Date	Description
09/21/21	BID ADDENDA 1



A206  $1\frac{1}{2}' = 1'-0"$

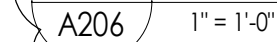


A206  $3/4" = 1'-0"$

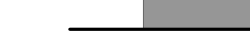


A206  $1\frac{1}{2}'' = 1'-0''$

A206 1 1/2" = 1'-0"



A206  $1\frac{1}{2}'' = 1'-0''$



---

1 1/2" = 1'-0"


$$1\ 1/2' = 1'-0''$$

$$1\frac{1}{2}'' = 1'-0''$$
$$1\frac{1}{2}'' = 1'-0''$$

used	Scale
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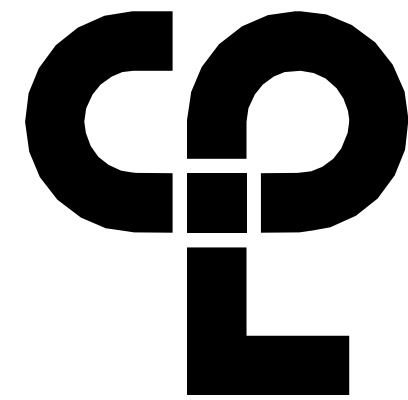
CONSTRUCTION DOCUMENTS

Author	Check
1. J. Smith	2. M. Jones
3. A. Brown	4. K. White
5. L. Green	6. P. Black
7. R. Grey	8. S. Blue
9. T. Yellow	10. V. Purple
11. W. Orange	12. Z. Silver
13. X. Gold	14. Y. Bronze
15. Q. Copper	16. U. Iron
17. J. Steel	18. K. Nickel
19. L. Tin	20. P. Lead
21. R. Zinc	22. S. Cadmium
23. T. Mercury	24. V. Silver
25. W. Platinum	26. Z. Gold
27. X. Palladium	28. Y. Rhodium
29. Q. Ruthenium	30. U. Rhodium
31. J. Silver	32. K. Gold
33. L. Copper	34. P. Nickel
35. R. Iron	36. S. Zinc
37. T. Cadmium	38. V. Lead
39. W. Tin	40. Z. Silver
41. X. Platinum	42. Y. Palladium
43. Q. Rhodium	44. U. Ruthenium
45. J. Silver	46. K. Gold
47. L. Copper	48. P. Nickel
49. R. Iron	50. S. Zinc
51. T. Cadmium	52. V. Lead
53. W. Tin	54. Z. Silver
55. X. Platinum	56. Y. Palladium
57. Q. Rhodium	58. U. Ruthenium
59. J. Silver	60. K. Gold
61. L. Copper	62. P. Nickel
63. R. Iron	64. S. Zinc
65. T. Cadmium	66. V. Lead
67. W. Tin	68. Z. Silver
69. X. Platinum	70. Y. Palladium
71. Q. Rhodium	72. U. Ruthenium
73. J. Silver	74. K. Gold
75. L. Copper	76. P. Nickel
77. R. Iron	78. S. Zinc
79. T. Cadmium	80. V. Lead
81. W. Tin	82. Z. Silver
83. X. Platinum	84. Y. Palladium
85. Q. Rhodium	86. U. Ruthenium
87. J. Silver	88. K. Gold
89. L. Copper	90. P. Nickel
91. R. Iron	92. S. Zinc
93. T. Cadmium	94. V. Lead
95. W. Tin	96. Z. Silver
97. X. Platinum	98. Y. Palladium
99. Q. Rhodium	100. U. Ruthenium
101. J. Silver	102. K. Gold
103. L. Copper	104. P. Nickel
105. R. Iron	106. S. Zinc
107. T. Cadmium	108. V. Lead
109. W. Tin	110. Z. Silver
111. X. Platinum	112. Y. Palladium
113. Q. Rhodium	114. U. Ruthenium
115. J. Silver	116. K. Gold
117. L. Copper	118. P. Nickel
119. R. Iron	120. S. Zinc
121. T. Cadmium	122. V. Lead
123. W. Tin	124. Z. Silver
125. X. Platinum	126. Y. Palladium
127. Q. Rhodium	128. U. Ruthenium
129. J. Silver	130. K. Gold
131. L. Copper	132. P. Nickel
133. R. Iron	134. S. Zinc
135. T. Cadmium	136. V. Lead
137. W. Tin	138. Z. Silver
139. X. Platinum	140. Y. Palladium
141. Q. Rhodium	142. U. Ruthenium
143. J. Silver	144. K. Gold
145. L. Copper	146. P. Nickel
147. R. Iron	148. S. Zinc
149. T. Cadmium	150. V. Lead
151. W. Tin	152. Z. Silver
153. X. Platinum	154. Y. Palladium
155. Q. Rhodium	156. U. Ruthenium
157. J. Silver	158. K. Gold
159. L. Copper	160. P. Nickel
161. R. Iron	162. S. Zinc
163. T. Cadmium	164. V. Lead
165. W. Tin	166. Z. Silver
167. X. Platinum	168. Y. Palladium
169. Q. Rhodium	170. U. Ruthenium
171. J. Silver	172. K. Gold
173. L. Copper	174. P. Nickel
175. R. Iron	176. S. Zinc
177. T. Cadmium	178. V. Lead
179. W. Tin	180. Z. Silver
181. X. Platinum	182. Y. Palladium
183. Q. Rhodium	184. U. Ruthenium
185. J. Silver	186. K. Gold
187. L. Copper	188. P. Nickel
189. R. Iron	190. S. Zinc
191. T. Cadmium	192. V. Lead
193. W. Tin	194. Z. Silver
195. X. Platinum	196. Y. Palladium
197. Q. Rhodium	198. U. Ruthenium
199. J. Silver	200. K. Gold

DO NOT DETACH FROM EXISTING RECORDS

HMS  
A206





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#### PROJECT INFORMATION

Project Number  
13940.18  
Client Name

**NEWBURGH ENLARGED CITY  
SCHOOL DISTRICT**

Project Name  
**PHASE 3: HERITAGE MIDDLE  
SCHOOL 2019 CAPITAL  
IMPROVEMENT PROJECT**

Project Address  
405 Union Avenue, New Windsor, NY 12553

SED Number  
44-16-00-01-0-039-011

#### PROJECT ISSUE SCHEDULE

No.	Date	Description
1	09/21/21	BID ADDENDA 1

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ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY  
SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION:  
"ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE  
OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE  
ALTERATION.

#### SHEET INFORMATION

Issued	Scale
9/9/2021	As indicated

Project Status  
**CONSTRUCTION DOCUMENTS**

Drawn By	Checked By
DS	CTV

Drawing Title  
**GROUND FLOOR AREA B -  
FLOOR PATTERNING PLAN**

Drawing Number

**HMS  
I300B**

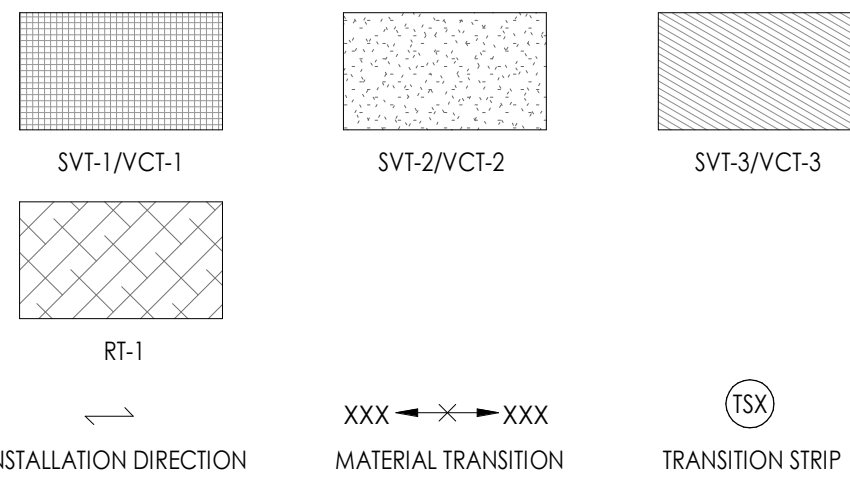
#### FLOOR PATTERNING GENERAL NOTES

1. ALL FLOOR FINISHES SHALL TRANSITION AT THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE (U.N.O.). INSTALL TRANSITION STRIPS PER DETAILS ON 1000.
2. PATCH TO MATCH EXISTING WALL, BASE, FLOOR AND CEILING FINISHES IN AREAS AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION.
3. ALL GROUT TO BE SEALED A MINIMUM OF TWO TIMES PRIOR TO COMPLETION.
4. WHERE KICKSPACES OCCUR AT MILLWORK, FLOOR FINISH SHOWN ON PLANS SHALL RUN UNDERNEATH KICKSPACE AS WELL.

#### FLOOR PATTERNING KEY NOTES

- 1 FLOOR TILE (SVT-1) TO BE ALIGNED WITH CEILING ACCENT (ACT-5) ABOVE.
- 2 EXISTING MILLWORK REMAINS. INSTALL SCHEDULED FLOOR TILE. PROVIDE WALL BASE (RB-2) AT EXISTING MILLWORK.
- 3 VINYL TILE TO CONTINUE UNDER SERVING STATION; G.C. TO VERIFY IN FIELD EXACT LOCATION.
- 4 ALIGN EDGE OF FLOORING WITH EXTERIOR WALL OF ADDITION.
- 5 RUBBER STAIR TREAD & RISER.

#### FLOOR PATTERNING LEGEND

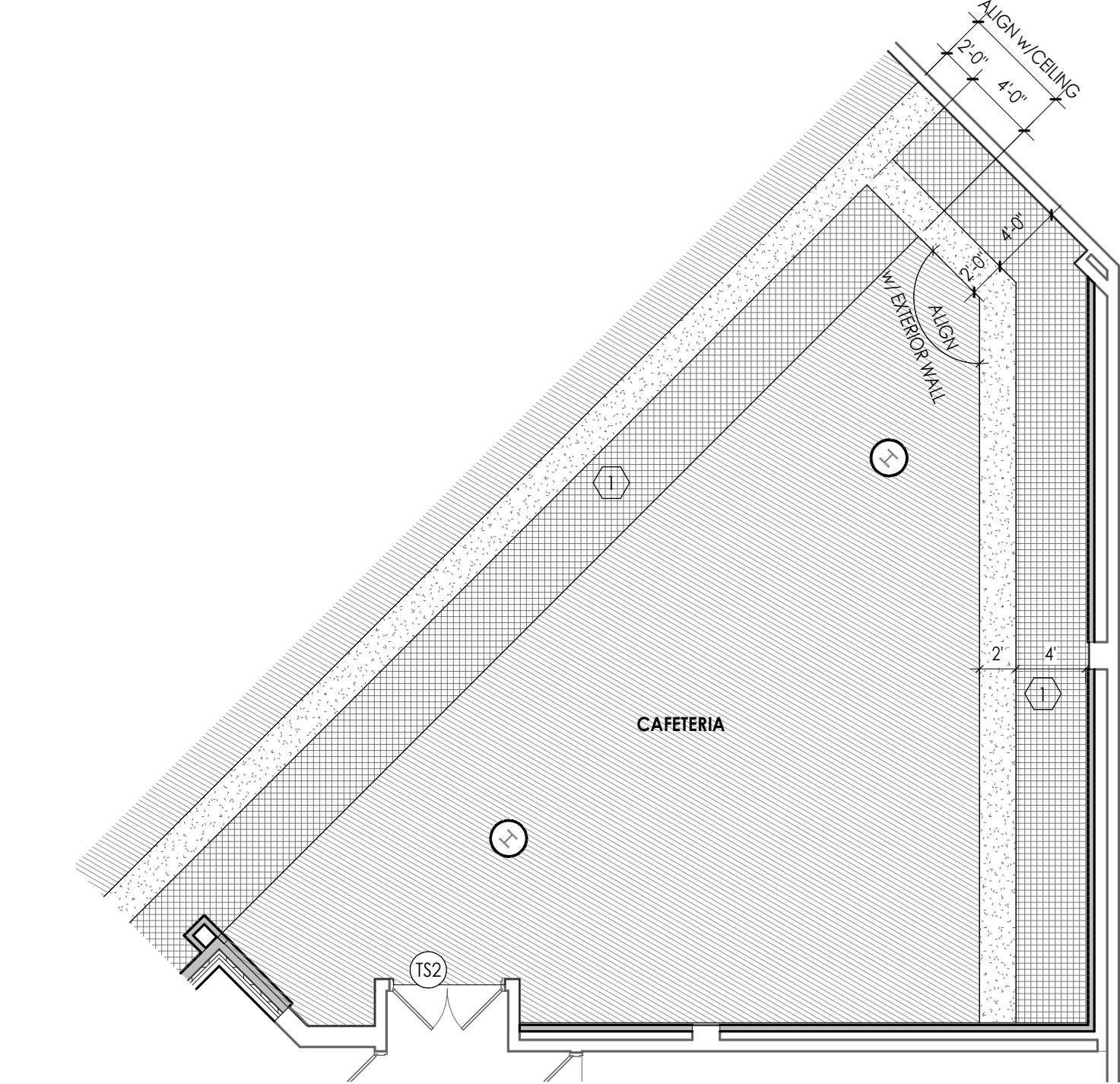


INSTALLATION DIRECTION  
MATERIAL TRANSITION  
TRANSITION STRIP

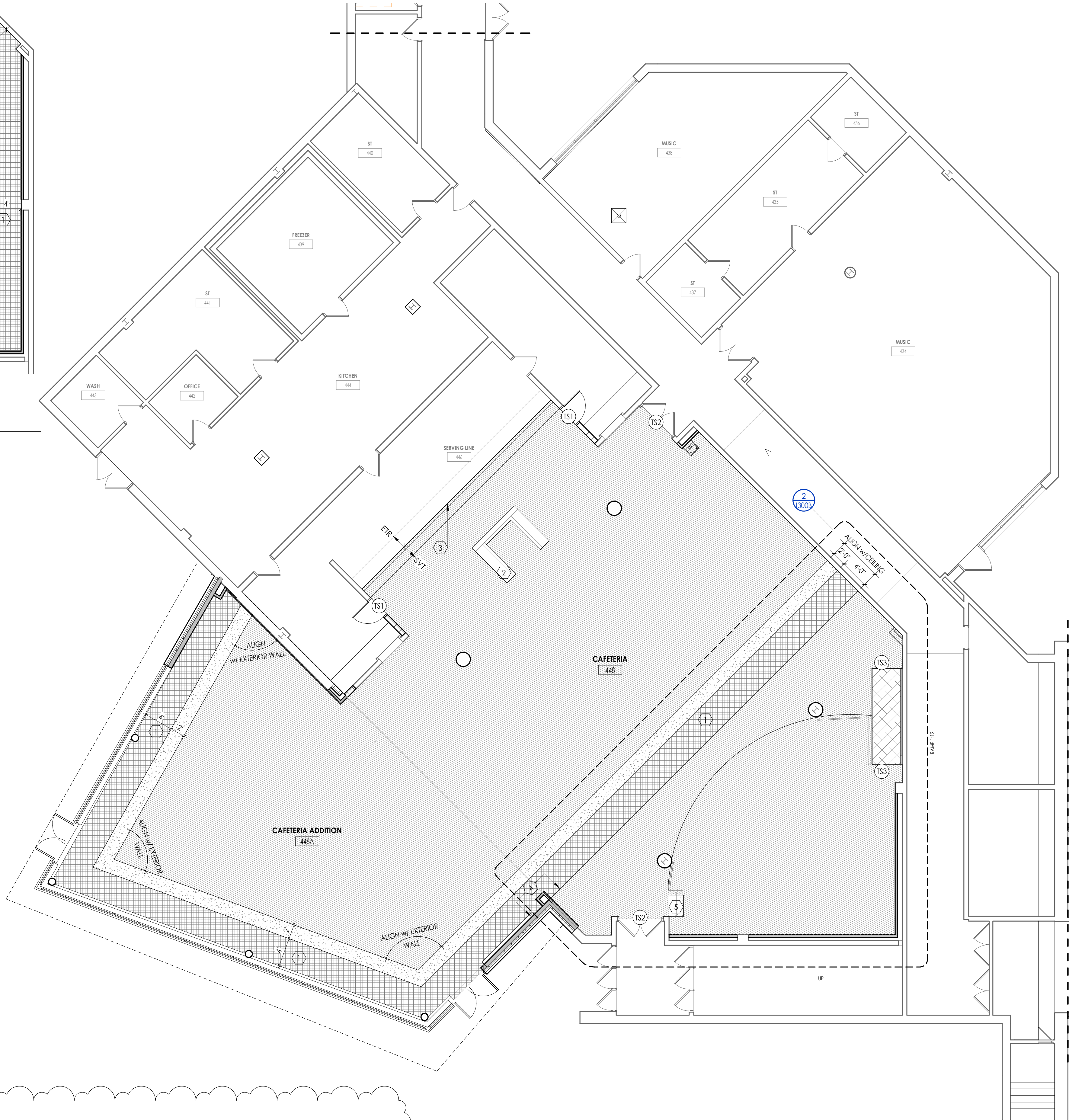


**KEYPLAN AREA B**

NTS

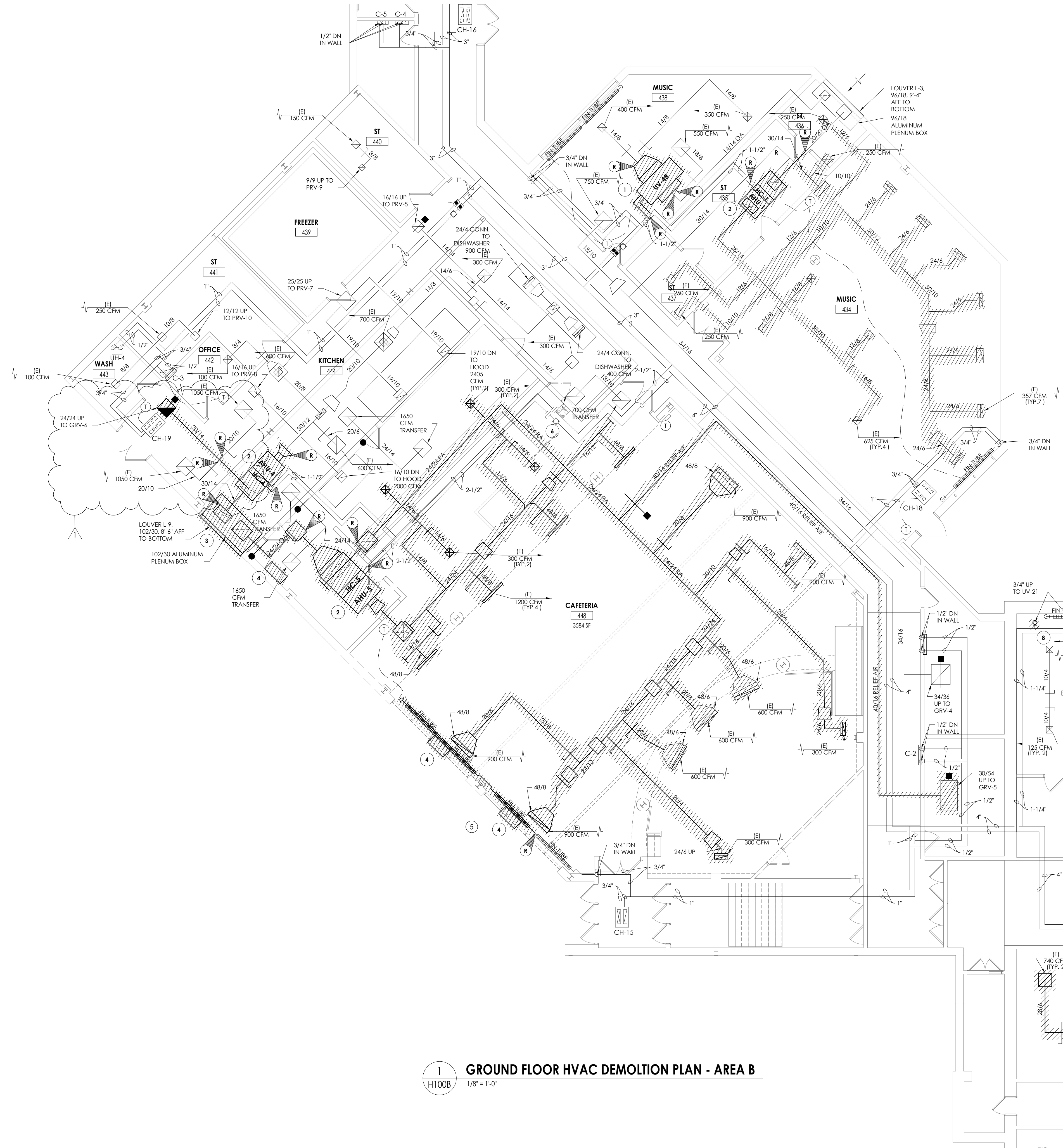


**2**  
GROUND FLOOR PATTERN PLAN - AREA B ALTERNATE GC-5  
1/8" = 1'-0"



**1**  
GROUND FLOOR PATTERN PLAN - AREA B BASE BID  
1/8" = 1'-0"





1 GROUND FLOOR HVAC DEMOLITION PLAN - AREA B  
H100B 1/8" = 1'-0"

KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR. SAVE CONTROL VALVE ACTUATOR AND PREPARE CONTROL WIRING FOR NEW UNIT.
- 2 REMOVE EXISTING AIR HANDLING UNIT AND ASSOCIATED SUPPORTS AND DUCTWORK TO POINTS INDICATED. SALVAGE CONTROLS WIRING. PREPARE CONTROL PIPING AND DUCTWORK FOR NEW UNIT.
- 3 REMOVE EXISTING OUTDOOR AIR LOUVER AND PLENUM.
- 4 REMOVE EXISTING EXHAUST FAN AND CONTROLS.
- 5 REMOVE EXISTING FINITE AND ENCLOSURE TO POINTS INDICATED. PREPARE PIRING FOR NEW CONNECTION
- 6 RELOCATE APPROXIMATELY 20 LINEAR FEET OF EXISTING 2-1/2" HHWS/R PIPING TO ALLOW FOR INSTALLATION OF NEW DIVIDING WALL.

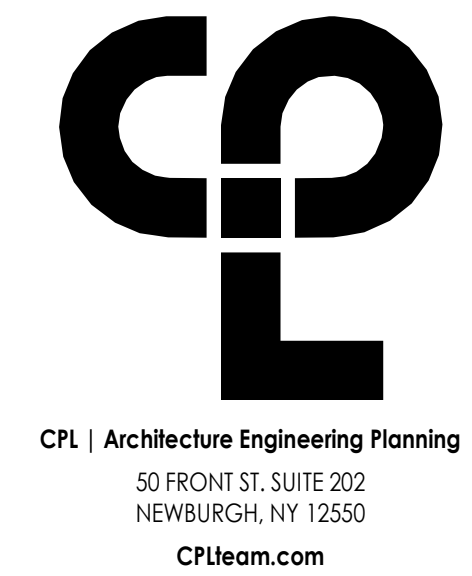
PROJECT INFORMATION

Project Number  
13940.18  
Client Name  
NEWBURGH ENLARGED CITY  
SCHOOL DISTRICT  
Project Name  
PHASE 3: HERITAGE MIDDLE  
SCHOOL 2019 CAPITAL  
IMPROVEMENT PROJECT  
Project Address  
405 Union Avenue, New Windsor, NY 12553  
SED Number  
44-16-00-01-0-039-011  
PROJECT ISSUE SCHEDULE  
No. Date Description  
1 9/17/21 BID ADDENDUM #1

SHEET INFORMATION

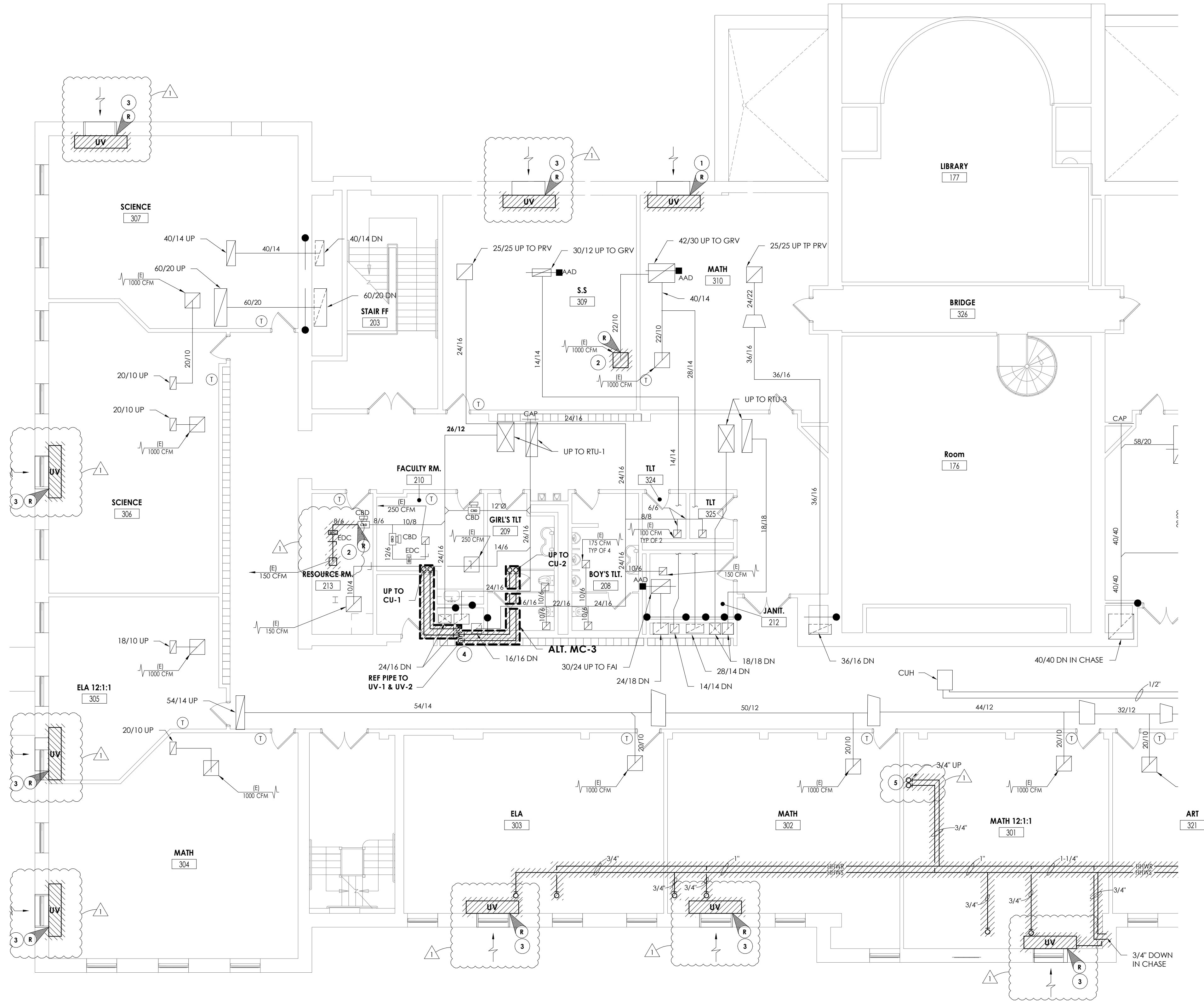
Issued  
09/09/2021  
Scale  
As indicated  
Project Status  
CONSTRUCTION DOCUMENTS  
Drawn By  
NRH  
Checked By  
JJM  
Drawing Title  
GROUND FLOOR HVAC  
DEMOLITION PLAN - AREA B  
Drawing Number

HMS  
H100B



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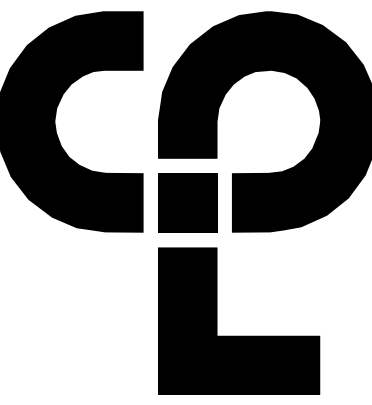
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1 SECOND FLOOR HVAC DEMOLITION PLAN - AREA C  
H102C 1/8" = 1'-0"

KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR AND OUTDOOR AIR LOUVER. SAVE CONTROLS AND CONTROL WIRING.
- 2 REMOVE DUCTWORK TO POINT INDICATED AND PREPARE DUCTWORK FOR NEW CONNECTION.
- 3 REMOVE EXISTING UNIT VENTILATOR. SAVE CONTROL VALVE ACTUATOR AND PREPARE CONTROL WIRING FOR EXTENSION TO NEW UNIT. OUTDOOR AIR LOUVER TO REMAIN.
- 4 REMOVE EXISTING REFRIGERANT LINES IN ENTIRETY.
- 5 REMOVE PIPING TO POINT INDICATED AND PREPARE FOR NEW CONNECTION.



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PROJECT INFORMATION

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Scale  
As indicated

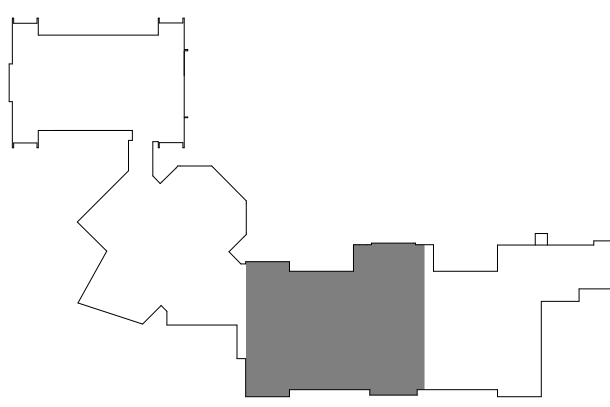
Project Status  
CONSTRUCTION DOCUMENTS

Drawn By  
NRH  
Checked By  
JJM

Drawing Title  
SECOND FLOOR HVAC  
DEMOLITION PLAN - AREA C

Drawing Number

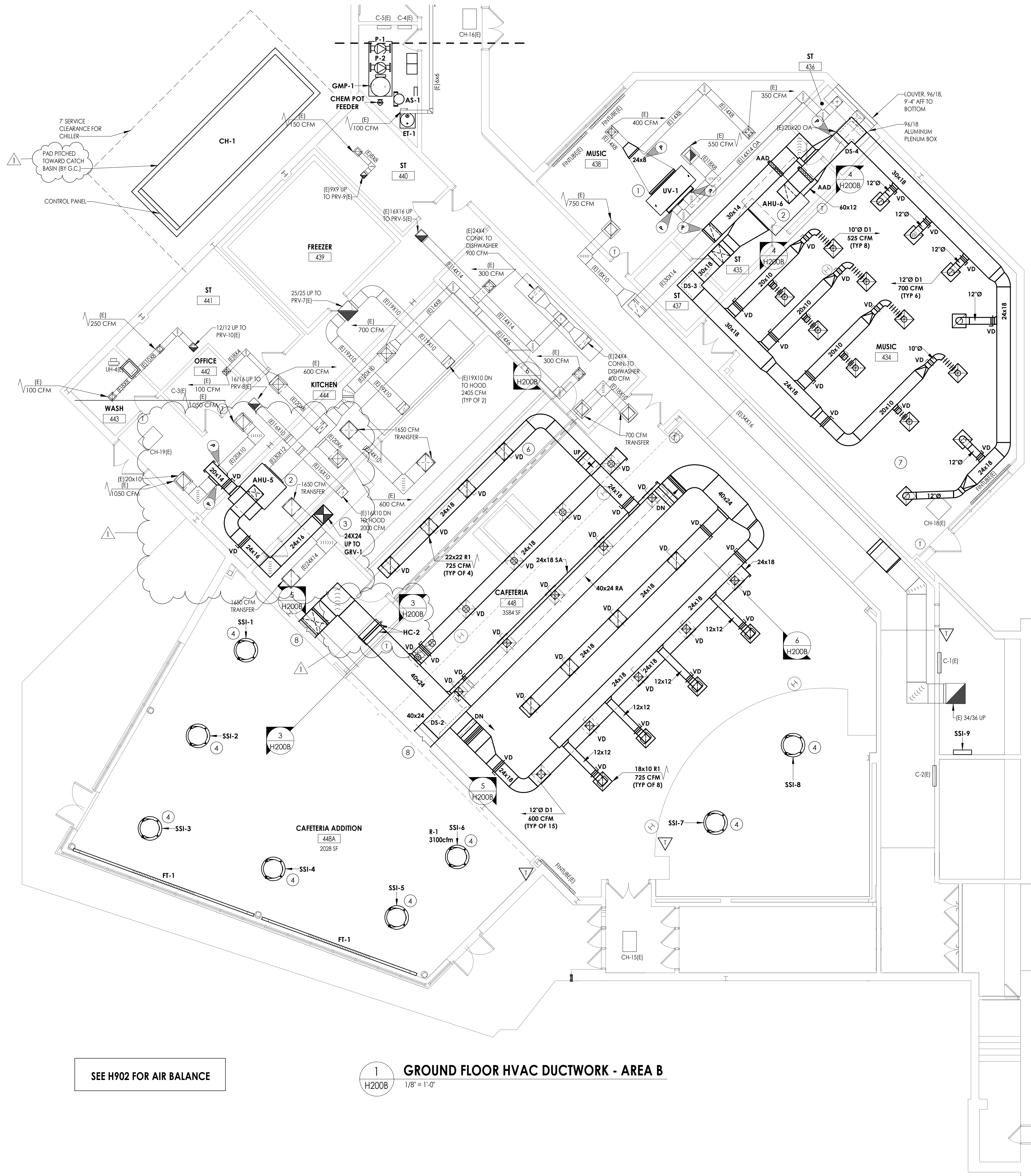
HMS  
H102C



KEYPLAN

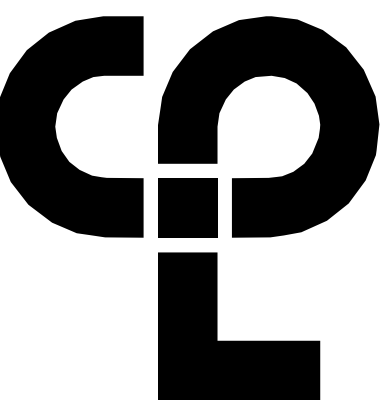


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#### KEY-NOTES

- 1 MOUNT UNIT VENTILATOR ABOVE CEILING. COORDINATE WITH ANY CEILING UTILITIES. MAINTAIN ACCESS FOR FILTER CHANGES. EXTEND EXISTING CONTROLS TO NEW UNIT LOCATION.
- 2 PROVIDE NEW AIR HANDLING UNIT ABOVE CEILING. PROVIDE VIBRATION ISOLATION. CONNECT DUCTWORK TO POINTS INDICATED. COORDINATE UNIT SERVICE ACCESS WITH ABOVE CEILING STRUCTURE.
- 3 24X36 OUTDOOR AIR DUCT UP TO GV-1 ON SLOPED ROOF.
- 4 MOUNT VRE UNIT TIGHT TO STRUCTURE. VRE SHALL BE PROVIDED WITH SQUARE CASING. COORDINATE WITH ARCHITECTURAL CEILING GRID AND LIGHTING.
- 5 COORDINATE DUCT ROUTING WITH STRUCTURAL STEEL.
- 6 COORDINATE NEW DUCTWORK WITH NEW DIVIDER.
- 7 COORDINATE CEILING WITH GC.
- 8 PROVIDE OPENINGS FOR NEW SUPPLY AND RETURN DUCTWORK. PROVIDE WATER TIGHT FLASHING.



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#### PROJECT INFORMATION

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SCHOOL DISTRICT

Project Name  
PHASE 3: HERITAGE MIDDLE  
SCHOOL 2019 CAPITAL  
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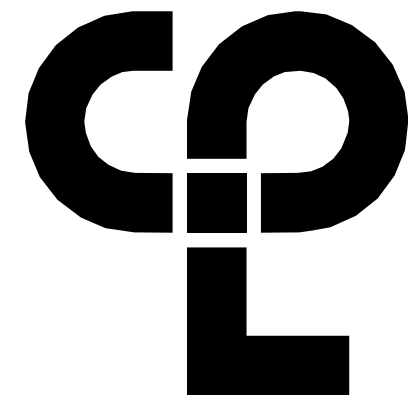
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Project Status  
CONSTRUCTION DOCUMENTS  
Drawn By  
NRH  
Checked By  
JJM  
Drawing Title  
GROUND FLOOR HVAC  
DUCTWORK PLAN - AREA B

Drawing Number

HMS  
H200B



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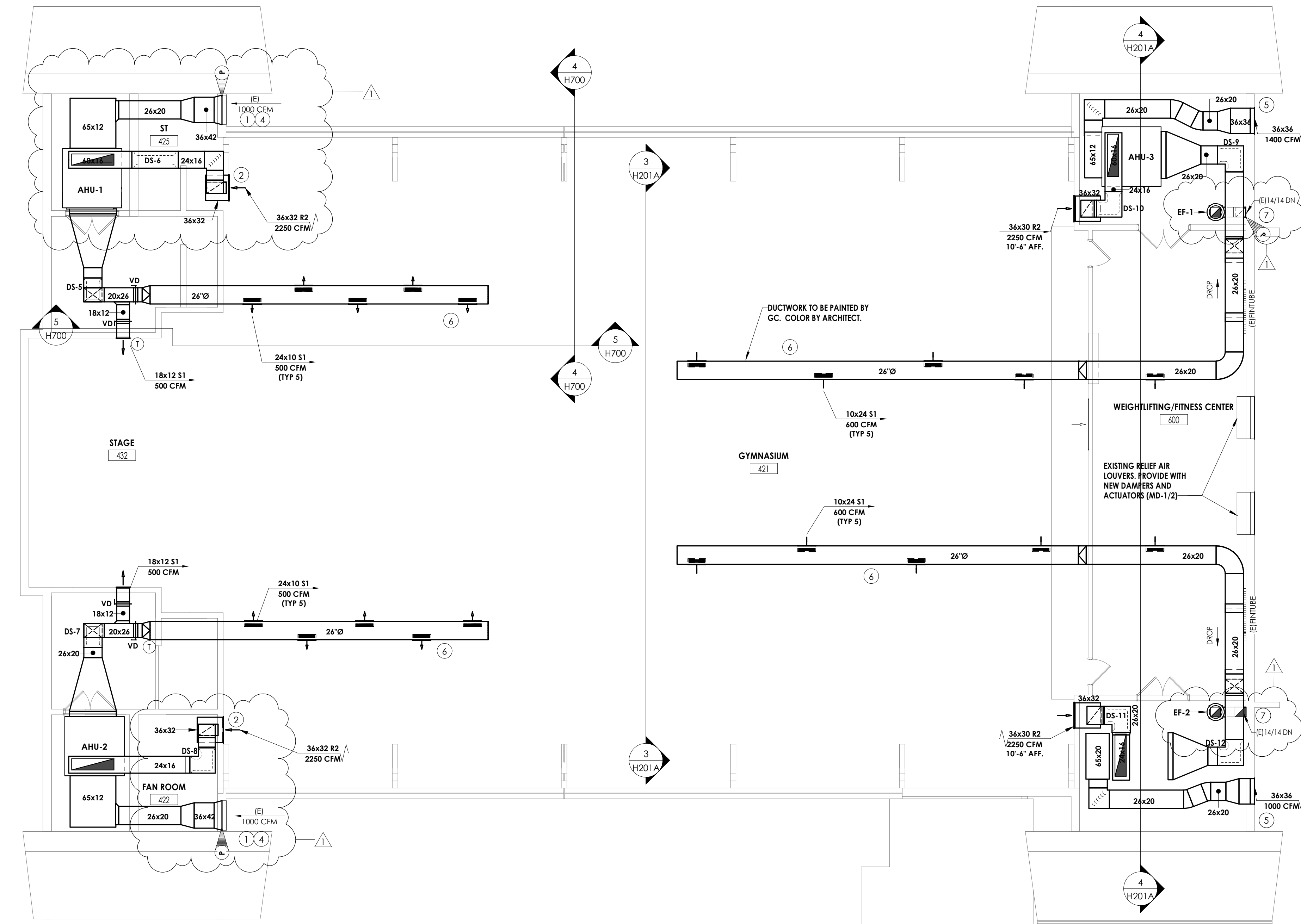
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#### PROJECT ISSUE SCHEDULE

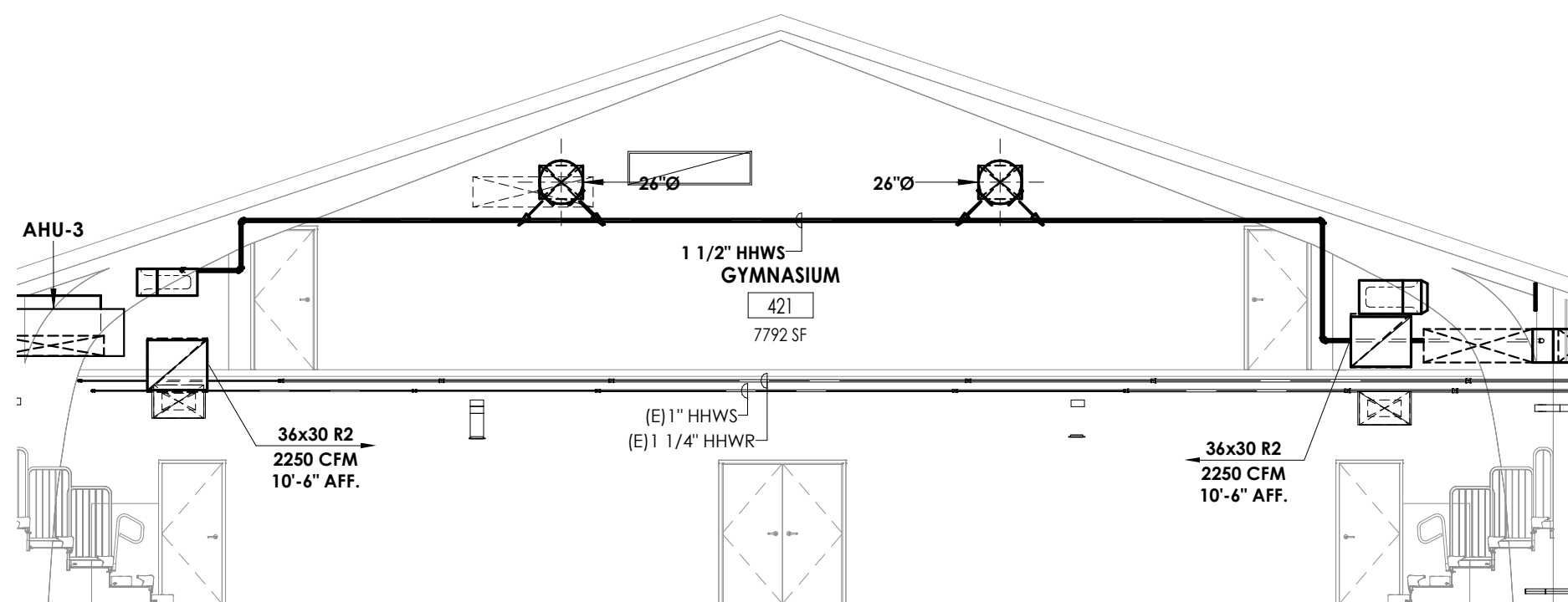
No.	Date	Description
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#### KEY NOTES

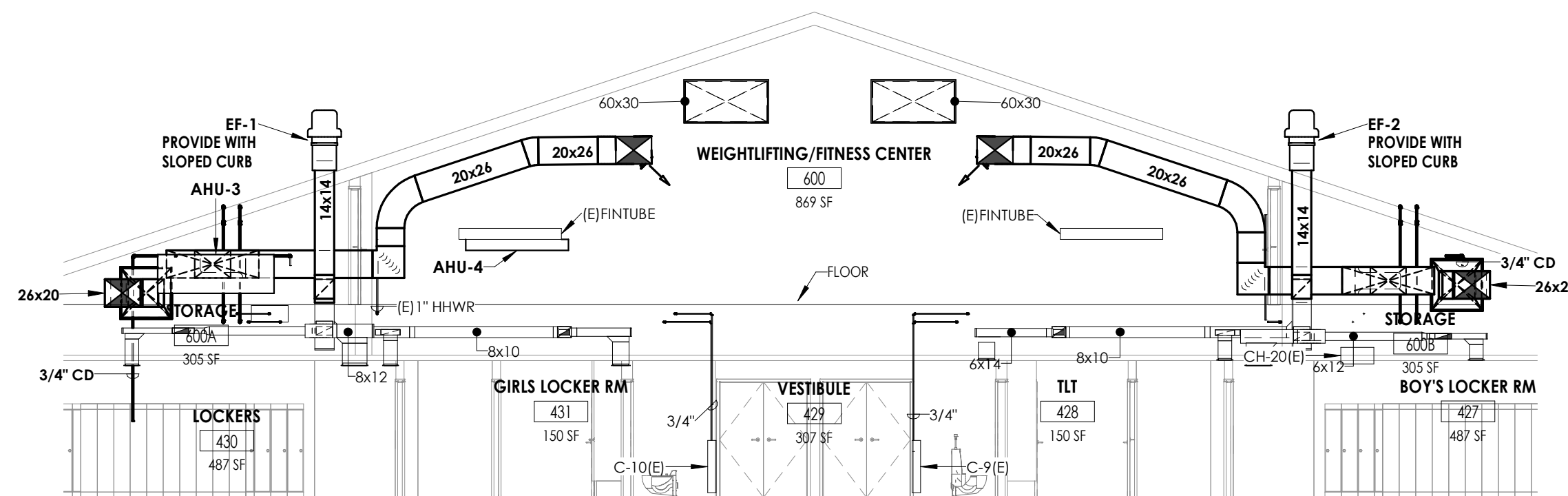
- 1 MOUNT AIR HANDLING UNIT 12" ABOVE FINISHED FLOOR. MAINTAIN EQUIPMENT ACCESS REQUIREMENTS. EXTEND EXISTING CONTROLS TO NEW UNIT.
- 2 RE-USE EXISTING OPENING IN WALLS. PROVIDE GRILLE.
- 3 PROVIDE NEW RETURN AIR LOUVER. COLOR BY ARCHITECT.
- 4 REUSE EXISTING 36"x42" SUPPLY AIR LOUVER.
- 5 PROVIDE NEW OUTDOOR AIR LOUVER. PROVIDE WITH BIRDSCREEN AND DRAINABLE BLADES.
- 6 HANG DUCTWORK WITH CABLE.
- 7 CONNECT NEW FAN TO EF WITH 14"x14" DUCTWORK.



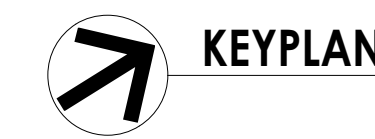
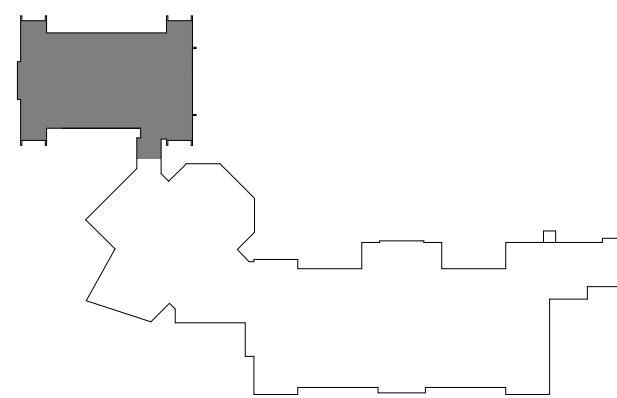
1 FIRST FLOOR HVAC DUCTWORK PLAN - AREA A  
1/8" = 1'-0"



3 GYMNASIUM ELEVATIONS  
1/8" = 1'-0"



4 LOCKER AND WEIGHTLIFTING SECTION  
1/8" = 1'-0"



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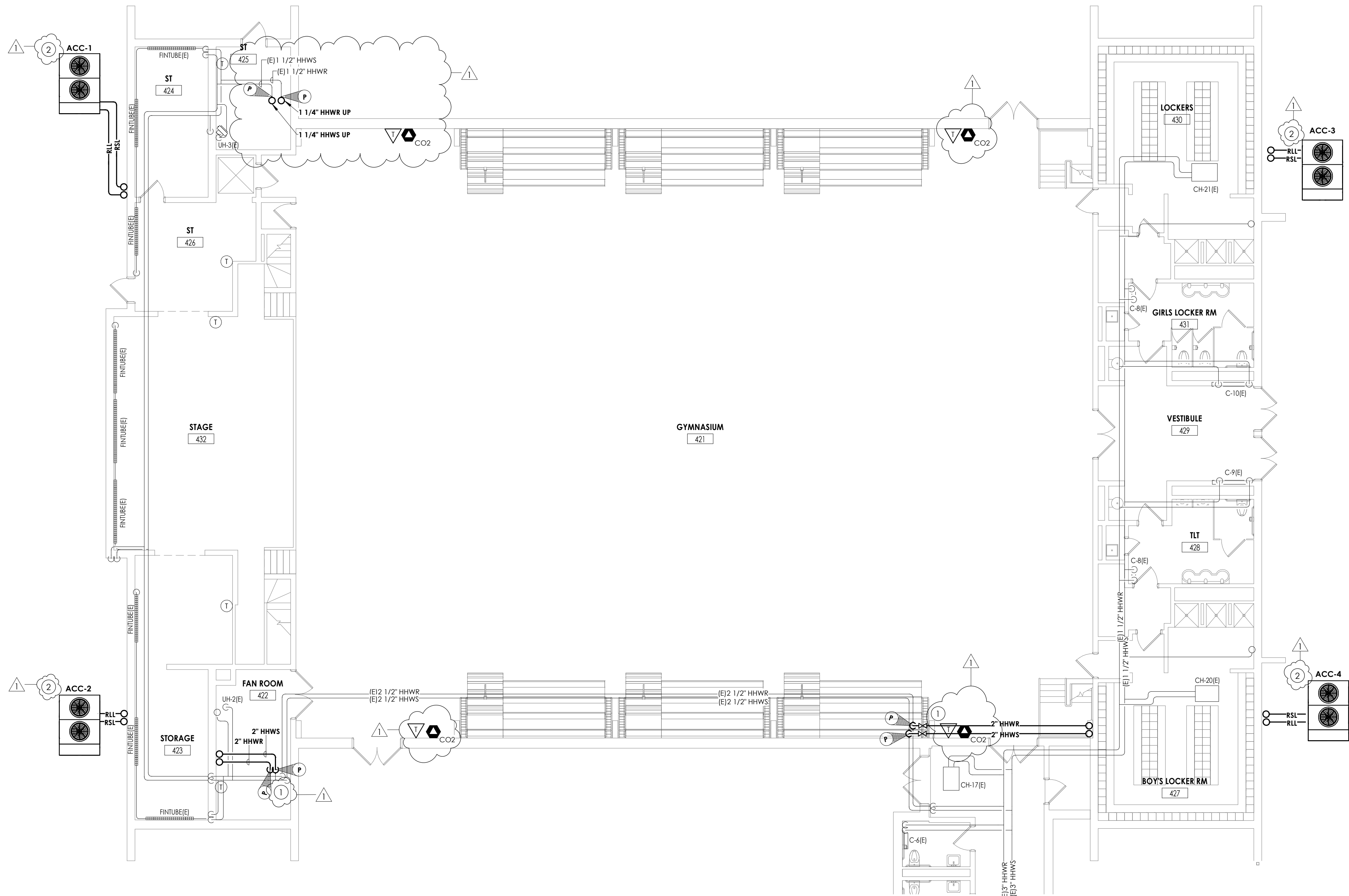
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As indicated  
Project Status  
CONSTRUCTION DOCUMENTS  
Drawn By  
NRH  
Checked By  
JJM  
Drawing Title  
FIRST FLOOR HVAC DUCTWORK  
PLAN - AREA A

Drawing Number

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H201A

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H300A

GROUND FLOOR HVAC PIPING PLAN - AREA A

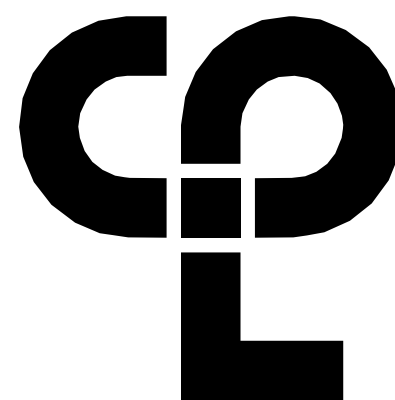
1/8" = 1'-0"

GENERAL NOTES

1. ALL COOLING EQUIPMENT ABOVE THE CEILING SHALL HAVE SECONDARY DRAIN PANS WITH FLOAT OVERFLOW ALARM CONNECTED TO THE BMS.
2. EXTEND ALL EXISTING CONTROL WIRING TO NEW UNITS. COORDINATE WITH JOHNSON CONTROLS SYSTEMS. SENSORS BY JCS.

KEY NOTES

1. CONNECT TO EXISTING PIPING MAIN AT POINT INDICATED.
2. MOUNT ACC ON PAD BY G.C. RSL/RLL PIPING TO AHU'S INSIDE SECURE TO WALL.



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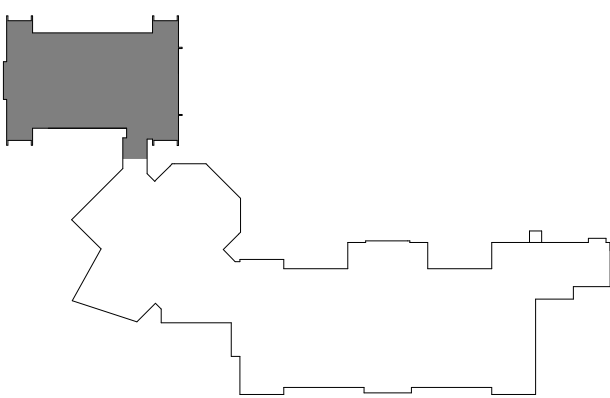
Issued	Scale
09/09/2021	As indicated

Project Status  
**CONSTRUCTION DOCUMENTS**  
Drawn By  
NRH  
Checked By  
JJM

Drawing Title  
**GROUND FLOOR HVAC PIPING PLAN - AREA A**

Drawing Number

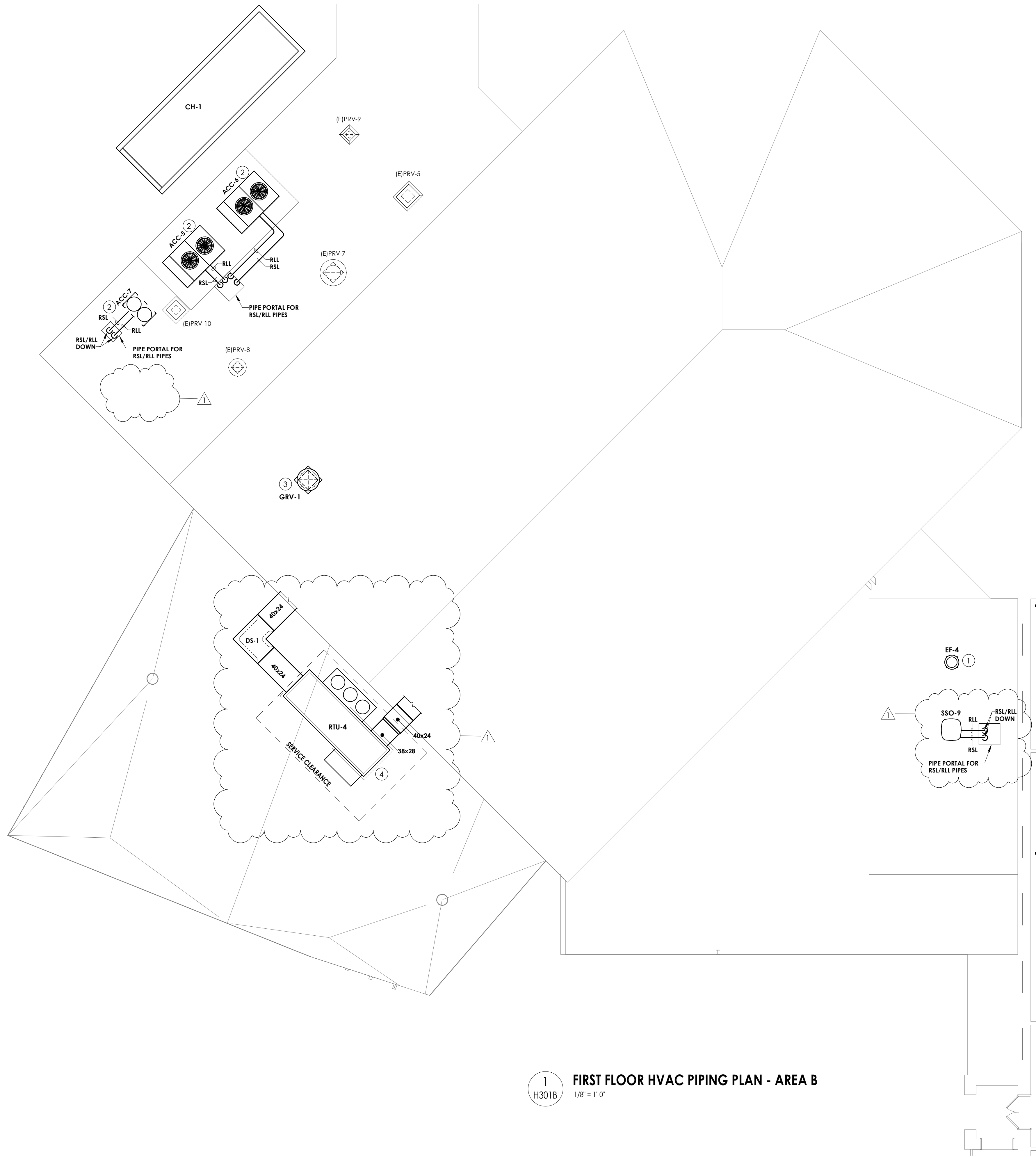
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KEYPLAN

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1  
H301B  
FIRST FLOOR HVAC PIPING PLAN - AREA B  
1/8" = 1'-0"

- GENERAL NOTES
1.

ALL COOLING EQUIPMENT ABOVE THE CEILING SHALL HAVE SECONDARY DRAIN PANS WITH FLOAT OVERFLOW ALARM CONNECTED TO THE BMS.
2.

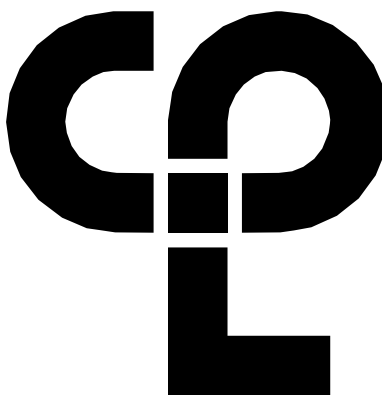
EXTEND ALL EXISTING CONTROL WIRING TO NEW UNITS. COORDINATE WITH JOHNSON CONTROLS SYSTEMS. SENSORS BY JCS.
- KEY NOTES
- 1

INSTALL NEW RELIEF FAN ON EXISTING CURB.
- 2

PROVIDE NEW RAILS WITH VIBRATION ISOLATION FOR NEW CONDENSING UNIT.
- 3

PROVIDE NEW GRAVITY INTAKE AND SLOPED CURB. FIELD VERIFY ROOF SLOPE.
- 4

PROVIDE NEW ROOFTOP UNIT WITH 12" CURB.



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NRH

Drawing Title

FIRST FLOOR HVAC PIPING PLAN - AREA B

Scale


As indicated

Checked By

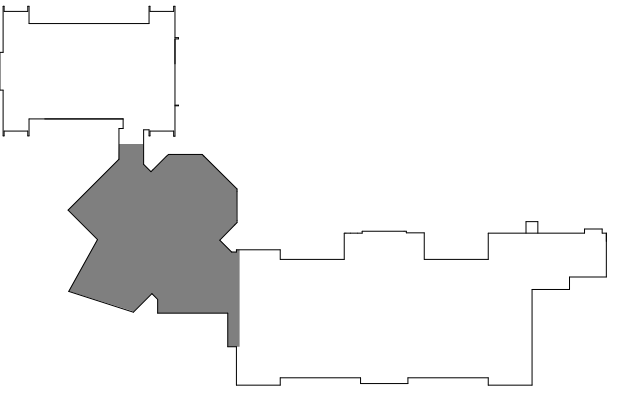
JJM

Drawing Number

HMS  
H301B

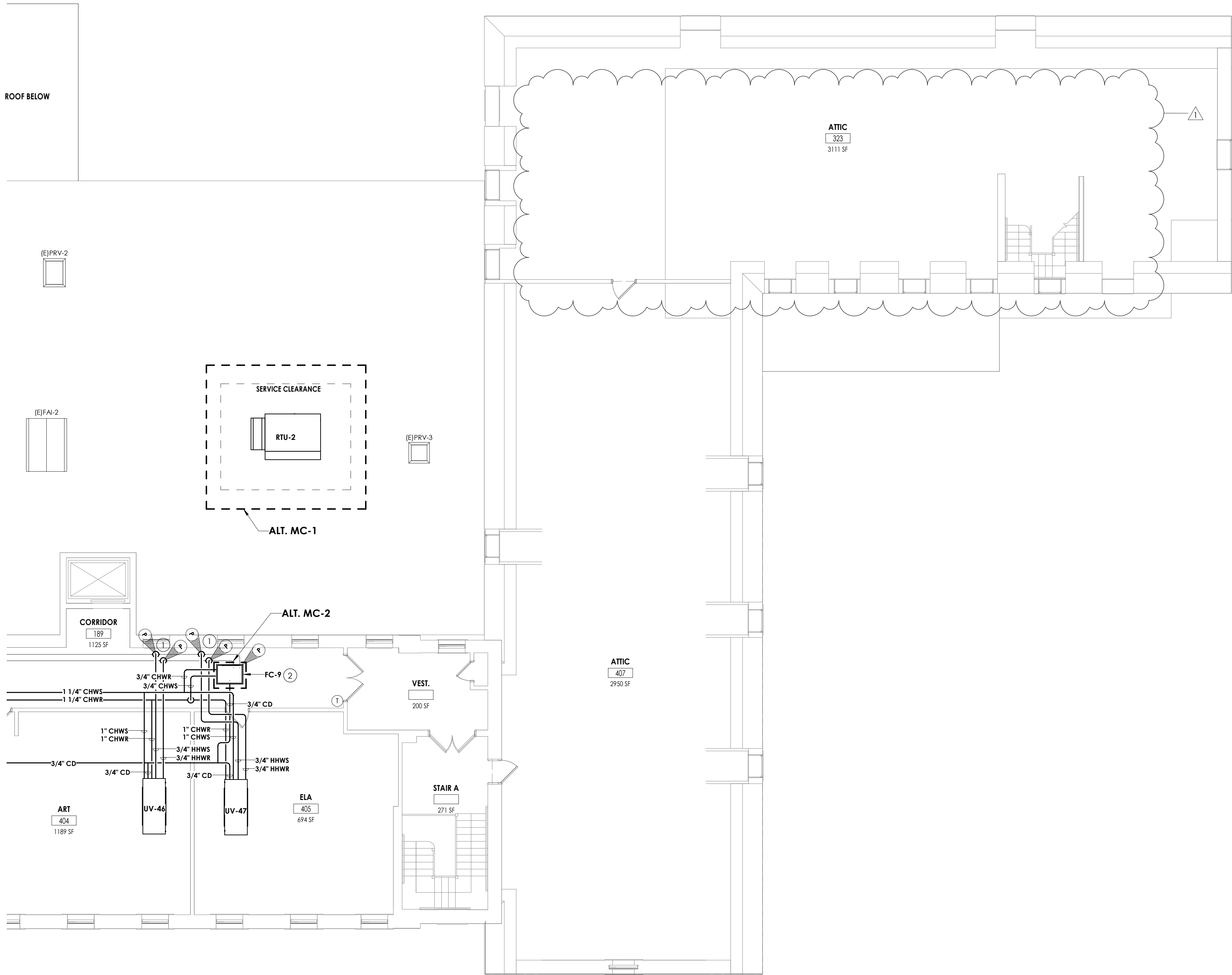


KEYPLAN



S:\Projects\Newburgh ECSD\Heritage MS Additn & Reno\0 Design\06 CDD\Revit

9/17/2021 9:57:35 AM



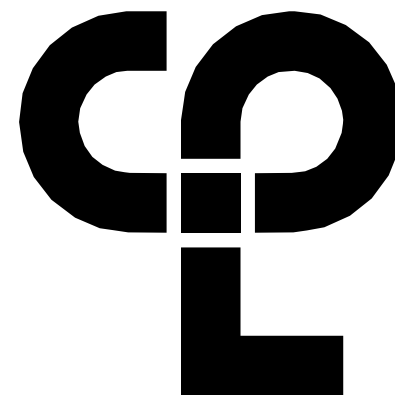
1 THIRD FLOOR HVAC PIPING PLAN - AREA D  
H303D 1/8" = 1'-0"

GENERAL NOTES

- ALL COOLING EQUIPMENT ABOVE THE CEILING SHALL HAVE SECONDARY DRAIN PANS WITH FLOAT OVERFLOW ALARM CONNECTED TO THE BMS.
- EXTEND ALL EXISTING CONTROL WIRING TO NEW UNITS. COORDINATE WITH JOHNSON CONTROLS SYSTEMS. SENSORS BY JCS.

KEY NOTES

- CONNECT NEW PIPING TO EXISTING PIPING AT POINTS INDICTAED. RE-INSULATE ANY EXISTING PIPING AT CONNECTED LOCATIONS.
- CONNECT TO EXISTING TEMPERATURE CONTROLS.



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PROJECT INFORMATION

Project Number  
13940.18  
Client Name  
NEWBURGH ENLARGED CITY  
SCHOOL DISTRICT  
Project Name  
PHASE 3: HERITAGE MIDDLE  
SCHOOL 2019 CAPITAL  
IMPROVEMENT PROJECT

Project Address  
405 Union Avenue, New Windsor, NY 12553

SED Number  
44-16-00-01-0-039-011

PROJECT ISSUE SCHEDULE

No.	Date	Description
1	9/17/21	BID ADDENDUM #1

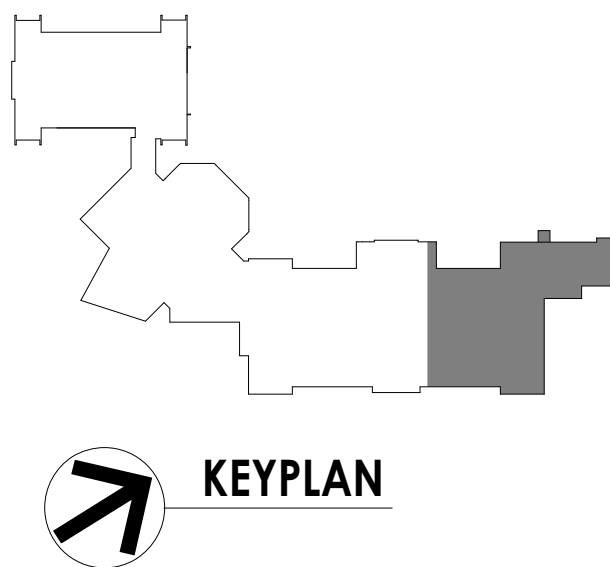
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued	Scale
09/09/2021	As indicated

Project Status  
CONSTRUCTION DOCUMENTS  
Drawn By  
NRH  
Checked By  
JJM  
Drawing Title  
THIRD FLOOR HVAC PIPING PLAN  
- AREA D

Drawing Number  
HMS  
H303D





ROOF TOP ENERGY RECOVERY UNIT																													
MARK	LOCATION	AREA SERVED	SA (CFM)	EA (CFM)	RA (CFM)	COOLING COIL					SUPPLY FAN					EXHAUST FAN					TOTAL MBH SAVED SUMMER	TOTAL MBH SAVED WINTER	OPERATING WEIGHT (LBS)	FILTERS	ELECTRICAL REQUIREMENTS			TYPICAL UNIT MFG & MODEL NO.	REMARKS:
						TOTAL MBH	SENS MBH	EAT	LAT	AMB	FAN TYPE	E.S.P. (IN. WC)	RPM	BHP	HP	FAN TYPE	E.S.P. (IN. WC)	RPM	BHP	HP					V/Ø/HZ	FLA	MCA		
RTU-4	CAFÉ ROOF	CAFETERIA	9100	6000	6000	486	320	79.7	54.07	75	PLENUM	1	1760	11.89	15	PLENUM	0.5	1760	9.39	10	183	511	3780	MERV 13	208/360	195	207	AAON RN-Q25-8-0-EB09-EJK	1,2,3,4
REMARKS:		1. FACTORY MOUNTED AND WIRED DISCONNECT. 115V CONVENIENCE OUTLET, FACTORY WIRED. CLOGGED FILTER SWITCH. 2. ECM CONDENSER FAN, HEAT PRESSURE CONTROL WITH SIGHT GLASS. REMOTE SAFETY SHUTDOWN TERMINAL. 3. TERMINAL STRIP FOR BMS CONTROL OF FAN AND DAMPERS. COMPATIBLE WITH JOHNSON CONTROLS FACILITY EXPLORER. 4. DOUBLE WALL, R-13 FOAM INSULATION. STAINLESS STEEL DRAIN PAN.																											

AIR SEPARATOR SCHEDULE									
MARK	LOCATION	SERVED	GPM	WEIGHT (LBS)	DIA. (IN.)	LNG. (IN.)	STRAINER SQ. IN. FA	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
AS-1	CHILLER PUMP ROOM	CHILLED WATER	300	579	18	44	6	B&G R-6F	
REMARKS:		1. 30% PROPYLENE GLYCOL.							

PUMP SCHEDULE									
MARK	LOCATION	SERVICE	GPM	HD (FT.)	ELECTRICAL DATA			TYPICAL UNIT MFG & MODEL NO.	REMARKS:
					HP	VOLTS	PH		
P-1	STORAGE	CHILLED WATER	300	80	15	208	3	B&G E-1510 3BD	1,2,3
P-2	STORAGE	CHILLED WATER	300	80	15	208	3	B&G E-1510 3BD	1,2,3
REMARKS:		1. 30% PROPYLENE GLYCOL. 2. SUCTION DIFFUSER. 3. WALL MOUNTED VFD UNIT DISCONNECT.							

VRF FAN COIL UNITS									
MARK	TOTAL AIRFLOW CFM	NOM.HEATING CAPACITY BTU/HR	NOM.COOLING CAPACITY BTU/HR	WEIGHT (LBS)	POWER (ØV/HZ)	AMPS	TYPICAL UNIT MFG & MODEL NO.	REMARKS:	
SSI-1	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-2	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-3	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-4	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-5	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-6	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-7	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-8	1500	27000	24000	47	1 / 208 / 60	0.28	SAMSUNG - AM024KN4DCH/AA	1,2,3,4,5	
SSI-9	250-430	21500	15000	23.4	1 / 208 / 60		SAMSUNG - AR12T5FABWKNVCV	1,2,3,4,5	
REMARKS:		1. UNIT MOUNTED AND WIRED DISCONNECT. 2. BAC NET INTERGRATION TO BMS. JOHNSON CONTROLS FACILITY EXPLORER. 3. COLOR WHITE. 4. DRAIN PAN LEVEL SESORS. 5. CONDENSATE PUMP.							

EXPANSION TANK SCHEDULE								
MARK	LOCATION	SERVED	ACCEPT. GAL.	DIA (IN.)	HEIGHT (IN.)	WEIGHT FULL (LBS.)	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
ET-1	CHILLER PUMP ROOM	CHILLED WATER	79	20	58	992	TACO CA-300	1,2
REMARKS:		1. REMOVABLE BLADDER TYPE. 2. CHARGE TO 12PSI. 3. 30% PROPYLENE GLYCOL.						

FIN TUBE SCHEDULE										
MARK	BTU/FT.	GPM	TUBE SIZE (IN.)	FINS / FT.	EWT (°F)	EAT (°F)	ENCLOSURE		TYPICAL UNIT MFG & MODEL NO.	REMARKS:
							H (IN.)	D (IN.)	STYLE	
FT-1	720	5	3/4	40	180	65	10-3/4	6-1/16	PEDESTAL	STERLING JVB 1,2,3,4
REMARKS:		1. CONTROL VALVES ABOVE THE CEILING. 2. COLOR BY ARCHITECT. 3. ELEMENT LENGTH LISTED ON PLANS. CAT - 66289C RETURN 4. COORDINATE HEIGHT WITH ELECTRICAL DEVICES.								

CHILLER SCHEDULE															
MARK	NOMINAL CAPACITY (TONS)	% PROP GLYCOL	CHILLED WATER				REFRIGERANT		ELECTRICAL DATA			WEIGHT (LBS)	TYPICAL UNIT MFG & MODEL NO.	REMARKS	
			FLOW (GPM)	DELTA P (FT)	IP/LV	EWT (°F)	LWT (°F)	REF. TYPE.	CHARGE (LB)	VOLTS/Ø	MCA				MOP
CH-1	180	30	270	17.42	20.516	56.97	42.00	134A	420.00	230/3	654	800	15700	TRANE-ACRB1805B	1,2,3,4
<b>REMARKS:</b> 1. FACTORY MOUNTED AND WIRED DISCONNECT. 2. THE SCHEDULED REFRIGERANT CHARGE IS A MANUFACTURERS ESTIMATE, COORDINATE THE CORRECT CHARGE BASED ON FIELD CONDITIONS. 3. FIVE YEAR COMPRESSOR WARRANTY. 4. HEAT TRACED EVAPORATOR BARREL AND EXTERIOR PIPING. HEAT TRACE SHALL BE ON SEPARATE 120V/20AMP CIRCUIT.															

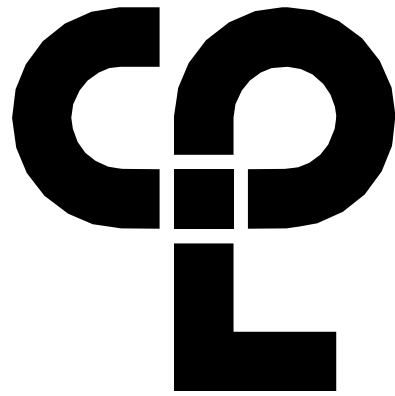
FAN COIL UNIT SCHEDULE																
MARK	TYPE	LOCATION	MAX CFM	COOLING			HEATING					ELECTRICAL DATA			TYPICAL UNIT MFG & MODEL NO.	REMARKS:
				MBH	GPM	WPD	MBH	EWT (°F)	WATER ΔT	GPM	WPD-FT-WC	WATTS	VOLTS	PHASE		
FC-1	DUCTED	159 CUSTODIAN	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-2	CEILING RECESSED	GROUND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4
FC-3	CEILING RECESSED		1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-4	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-5	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-6	CEILING RECESSED	2ND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-7	CEILING RECESSED	2ND FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-8	CEILING RECESSED	1ST FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-9	CEILING RECESSED	3RD FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
FC-10	DUCTED	105B SCHOOL PSYCHOLOGIST	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4
FC-11	CEILING RECESSED	3RD FLOOR HALL	1020	20	5	3.1	42	180	160	4.5	5.6	150	115	60	AIRTHERM 101-1	1,2,3,4,5
REMARKS:		1. FACTORY MOUNTED AND WIRED DISCONNECT. 2. PROVIDE WITH 1" MERV 7 FILTERS. 3. 30% PROPYLENE GLYCOL COOLING COIL. 4. CONDENSATE PUMP. 5. ALTERNATE NO. MC-2														

AIR HANDLING UNIT SCHEDULE																					
MARK	ROOM SERVED	CFM	MIN. OA CFM	EXT. SP W.C.	COOLING MBH				HOT WATER HEATING COIL DATA						SUPPLY FAN MOTOR DATA			TYPICAL UNIT MFG & MODEL NO.	REMARKS		
					TOTAL	SENS	ROWS	EAT °F DBWB	LAT °F DBWB	MBH	EWT	LWT	EAT °F	LAT °F	GPM	WPD FT-W.C.	BHP/HP			RPM	VOLTS/G
AHU-1	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4,5
AHU-2	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4,5
AHU-3	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4
AHU-4	GYM	3500	750	1.5	145	102	4	83.2/68.8	57.9/56	204	180	138	58.7/55.6	111.5/72.7	10	0.7	3.3/4	1935	208/3/60	AAON: H3-DRB-8-0-162D-12F	1,2,3,4
AHU-5	KITCHEN	2600	500	1	98.3	70.57	6	80/67	56.1/44.7	128.7	180	127	60.4/56.6	105.4/71.3	5	0.3	1.68/4	1552	208/3/60	AAON:H3-CRB-8-0-162C-12F	1,2,3,4,5
AHU-6	MUSIC	4200	1500	1.2	185.6	129.7	6	85.4/70.2	57.8/56.3	266.4	180	122.3	47.9/47.9	104.2/68.5	9.5	0.7	3.12/4	1901	208/3/60	AAON: H3-DRB-8-0-162C-12F	1,2,3,4,5
REMARKS:		1. FACTORY MOUNTED AND WIRED DISCONNECT. ALL UNITS SHALL BE SINGLE POINT CONNECTION 2. DAMPER ACTUATORS BY MANUFACTURER. FULLY MODULATING ACCUATORS. MERV 13 FILTERS. MAGNEHELIC HAUGE CLOG FILTER SWITCH. THERMAL EXPANSION VALVES. 3. CONNECT TO EXISTING JOHNSON CONTROLS, FACILITY EXPLORER 4. VIBRATION ISOLATION 5. CONTROLS RELOCATED BY OTHERS FROM EXISTING UNIT.																			

HOT WATER COIL SCHEDULE															
MARK	SERVICE	CFM	AIR DATA				GPM	WATER DATA			MFG SIZE HXL (IN.)	ROWS	TYPICAL UNIT MFG & MODEL NO.	REMARKS:	
			TEMP (°F)	ENT	LVG	MAX APD (IN. WG)		TEMP (°F)	ENT	LVG					MAX APD (IN. WG)
HC-1	SF-9	2250	-2	70	0.76	174.960	18.8	180	160	3.8	15X22	2	CAPITAL COIL W8-2215-12B-HCA-R	1,2	
HC-2	RTU-4	9100	-2	70	0.56	707.616	70.8	180	160	4.5	46X30	4	CAPITAL COIL	1	
REMARKS:		1. TUBE ØD 0-625, TUBE SPACING 1.50X1.299 2. ALTERNATE WC-05.													

REGISTERS, GRILLES, AND DIFFUSERS						
MARK	APPLICATION	MATERIAL	TYPE	FINISH	DESIGN EQUIP.	REMARKS
D1	SUPPLY	STEEL	LAY-IN	WHITE	PRICE SPD	4
D2	SUPPLY	STEEL	DUCT GRILLE	WHITE	PRICE SDG	1,3
S1	SUPPLY	STEEL	DUCT GRILLE	WHITE	PRICE HCD	1
R1	RETURN/EA	STEEL	LAY-IN	WHITE	PRICE PDR	4
R2	RETURN/EA	STEEL	WALL GRILLE	WHITE	PRICE 90	2,3
REMARKS:		1. OPPOSED BLADE DAMPER. 2. CONCEALED MOUNTING. 3. SINGLE DEFLECTION. BLADES PARALLEL TO LENGTH. 4. INSULATED BACK PAN.				

FAN SCHEDULE												
MARK	LOCATION	SERVICE	TYPE	CFM	SP IN W.G.	RPM	ELECTRICAL DATA				TYPICAL UNIT MFG & MODEL NO.	REMARKS:
							HP	VOLTS	PHASE	AMPS		
EF-1	GYM	LOCKER ROOM EXHAUST	CENTRIFUGAL	1500	0.75	1457	.25	115	1	3.8	GREENHECK G-100-VG	1,2,4
EF-2	GYM	LOCKER ROOM EXHAUST	CENTRIFUGAL	1500	0.75	1457	.25	115	1	3.8	GREENHECK G-100-VG	1,2,4
EF-3	ROOF	CLASSROOM EXHAUST	CENTRIFUGAL	2000	0.5	948	1/2	208	1	5.4	GREENHECK GB-161	1,2
EF-4	ROOF	MUSIC ROOM	CENTRIFUGAL	1400	1	1725	1/2	208	1	5.4	GREENHECK G-123-A	1,2
EF-5	ROOF	CLASSROOM EXHAUST	CENTRIFUGAL	1250	1	1725	1/2	208	1	4.9	GREENHECK G-123-1	1,2
EF-6	ROOF	CLASSROOM EXHAUST	CENTRIFUGAL	4500	1	1102	2	208	1	12	GREENHECK G-200	1,2
SF-1	ATTIC	CLASSROOM OA	INLINE	10000	1.5	824	5	208	3	16.7	GREENHECK BSQ-300	1
SF-2	ATTIC	CLASSROOM OA	INLINE	3750	0.4	539	1/2	208	3	2.4	GREENHECK BSQ-240	1
SF-3	ATTIC	CLASSROOM OA	INLINE	8750	1.5	1147	5	208	3	16.7	GREENHECK BSQ-240	1
SF-4	-	-	-	-	-	-	-	-	-	-	NOT USED	-
SF-5	-	-	-	-	-	-	-	-	-	-	NOT USED	-
SF-6	ATTIC	CLASSROOM OA	INLINE	7000	0.75	875	2	208	3	7.5	GREENHECK BSQ-240	1
SF-7	ATTIC	CLASSROOM OA	INLINE	7500	1	964	3	208	3	10.6	GREENHECK BSQ-240	1
SF-8	ATTIC	CLASSROOM OA	INLINE	6750	1.5	1012	5	208	3	16.7	GREENHECK BSQ-240	1
SF-9	TECH	CLASSROOM OA	INLINE	2250	0.5	992	1/2	208	1	5.4	GREENHECK BSQ-160	1,3
RF-1	ATTIC	CLASSROOM EA	INLINE	13750	1.25	675	7-1/2	208	3	24.2	GREENHECK BSQ-360	1
RF-2	ATTIC	CLASSROOM EA	INLINE	3750	0.8	949	1-1/2	208	3	6.6	GREENHECK BSQ-200	1
RF-3	ATTIC	CLASSROOM EA	INLINE	3750	0.4	539	1/2	208	3	2.4	GREENHECK BSQ-240	1
RF-4	ATTIC	CLASSROOM EA	INLINE	2500	0.25	585	1/3	208	3	2.4	GREENHECK BSQ-200	1
RF-5	ATTIC	CLASSROOM EA	INLINE	1250	0.25	623	1/4	208	3	2.4	GREENHECK BSQ-160	1
RF-6	ATTIC	CLASSROOM EA	INLINE	6250	0.75	816	2	208	3	7.5	GREENHECK BSQ-240	1
RF-7	ATTIC	CLASSROOM EA	INLINE	4000	1	1038	1-1/2	208	3	6.6	GREENHECK BSQ-200	1
RF-8	ATTIC	CLASSROOM EA	INLINE	7250	1	945	3	208	3	10.6	GREENHECK BSQ-240	1
REMARKS: 1. FACTORY MOUNTED AND WIRED DISCONNECT. 2. HINGED BASE AND BIRD SCREEN. 3. ALTERNATE MC-5. 4. PROVIDE WITH SLOPPED CURBS.												



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NEWBURGH, NY 12550  
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PROJECT INFORMATION

Project Number  
13940.18  
Client Name

NEWBURGH ENLARGED CITY  
SCHOOL DISTRICT

PHASE 3: HERITAGE MIDDLE  
SCHOOL 2019 CAPITAL  
IMPROVEMENT PROJECT

Project Address  
405 Union Avenue, New Windsor, NY 12553

SED Number  
44-16-00-01-0-039-011

PROJECT ISSUE SCHEDULE

No. Date Description  
1 9/17/21 BID ADDENDUM #1

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW  
AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON,  
(UNLESS ACTING UNDER THE DIRECTION OF A LICENSED  
ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM  
IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT,  
ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY  
SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION:  
"ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE  
OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE  
ALTERATION.

SHEET INFORMATION

Issued 09/09/2021 Scale 1/2" = 1'-0"

Project Status

CONSTRUCTION DOCUMENTS

Drawn By NRH Checked By JJM

Drawing Title

HVAC SCHEDULES

Drawing Number

HMS  
H901

UNIT VENTILATOR SCHEDULE

MARK	ROOM SERVES	OA FAN	EA FAN	UNIT TYPE	CFM	EXT. SP.	ELECTRICAL		MIN. OA CFM	WINTER				HW COIL CAPACITY				CW COIL CAPACITY				TYPICAL UNIT MFG & MODEL NO.	REMARKS:
							MCA	VOLT/Ø		OA °F	RA °F	EWT °F	EAT °F	LAT °F	MBH	GPM	EWT °F	EAT °F	LAT °F	MBH	GPM		
UV-1	438	-	-	HORIZONTAL	1500	0.625	5.9	120/1	600	5	72	180	45.2	95	81049.5	4.2	45	79.8	56	38734.5	6.7	MAGICAIRE MAUH	1,2,4,5,6
UV-2	105	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	4.8	MAGICAIRE MAUH	1,2,4,5,6
UV-3	105A	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	450	5	72	180	41.9	95	57667.8	3.0	45	80.4	56	26474.0	4.5	MAGICAIRE MAUH	1,2,4,5,6
UV-4	106	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	4.6	MAGICAIRE MAUH	1,2,4,5,6
UV-5	104	[E]GRV-2	EF-6	HORIZONTAL	1500	0.625	5.9	120/1	675	5	72	180	41.9	95	86501.6	4.5	45	80.4	56	39711.0	6.8	MAGICAIRE MAUH	1,2,4,5,6,8
UV-6	101	[E]GRV-2	EF-5	HORIZONTAL	1000	0.625	5	120/1	525	5	72	180	36.8	95	63119.9	3.3	45	81.3	56	27450.5	4.7	MAGICAIRE MAUH	1,2,4,5,6,8
UV-7	114	SF-3	RF-6	HORIZONTAL	1500	0.625	5.9	120/1	675	5	72	180	41.9	95	86501.6	4.5	45	80.4	56	39711.0	6.8	MAGICAIRE MAUH	1,2,4,5,6,8
UV-8	113A	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	4.8	MAGICAIRE MAUH	1,2,4,5,6
UV-9	113B	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	550	5	72	180	35.2	95	64937.3	3.3	45	81.6	56	27776.0	5.7	MAGICAIRE MAUH	1,2,4,5,6
UV-10	112	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-11	109	SF-3	RF-1	HORIZONTAL	1000	0.625	5	120/1	470	5	72	180	40.5	95	59121.7	3.0	45	80.6	56	26734.4	5.5	MAGICAIRE MAUH	1,2,4,5,6
UV-12	110	SF-3	RF-2	HORIZONTAL	1250	0.625	5.9	120/1	525	5	72	180	43.9	95	69358.6	3.6	45	80.0	56	32604.2	6.7	MAGICAIRE MAUH	1,2,4,5,6
UV-13	111	SF-3	RF-2	HORIZONTAL	1250	0.625	5.9	120/1	525	5	72	180	43.9	95	69358.6	3.6	45	80.0	56	32604.2	6.7	MAGICAIRE MAUH	1,2,4,5,6
UV-14	206	SF-7	RF-8	HORIZONTAL	1000	0.625	5	120/1	650	5	72	180	28.5	95	72206.8	3.7	45	82.8	56	29078.0	6.0	MAGICAIRE MAUH	1,2,4,5,6
UV-15	204	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	5.5	MAGICAIRE MAUH	1,2,4,5,6
UV-16	203	SF-8	RF-8	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-17	202	SF-7	RF-8	HORIZONTAL	1250	0.625	5.9	120/1	575	5	72	180	41.2	95	72993.4	3.8	45	80.5	56	33253.3	6.9	MAGICAIRE MAUH	1,2,4,5,6
UV-18 (NOT USED)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UV-19	209	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	5.5	MAGICAIRE MAUH	1,2,4,5,6
UV-20	215	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-21	214	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-22	216	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-23	212	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	5.5	MAGICAIRE MAUH	1,2,4,5,6
UV-24	213	SF-1	RF-1	HORIZONTAL	1250	0.625	5.9	120/1	575	5	72	180	41.2	95	72993.4	3.8	45	80.5	56	33253.3	6.9	MAGICAIRE MAUH	1,2,4,5,6
UV-25	210	SF-1	RF-1	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-26	306	SF-7	RF-7	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-27	305	SF-7	RF-7	HORIZONTAL	750	0.625	4.6	120/1	325	5	72	180	43.0	95	42342.1	2.2	45	80.2	56	19692.8	4.1	MAGICAIRE MAUH	1,2,4,5,6
UV-28	304	SF-6	RF-7	HORIZONTAL	1250	0.625	5.9	120/1	525	5	72	180	43.9	95	69358.6	3.6	45	80.0	56	32604.2	6.7	MAGICAIRE MAUH	1,2,4,5,6
UV-29	309	SF-7	EF-6	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-30	310	-	EF-6	VERTICAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUV	1,2,3,4,5,7
UV-31	303	SF-6	RF-6	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-32	302	SF-6	RF-6	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-33	311	-	EF-7	VERTICAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUV	1,2,3,4,5,7
UV-34	312	SF-2	EF-7	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-35	301	SF-6	RF-6	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-36	321	SF-6	RF-6	HORIZONTAL	750	0.625	4.6	120/1	300	5	72	180	45.2	95	40524.8	2.1	45	79.8	56	19367.3	4.0	MAGICAIRE MAUH	1,2,4,5,6
UV-37	320	SF-6	RF-6	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-38	318	SF-1	RF-3	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-39	317	SF-2	RF-3	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-40	316	SF-2	RF-3	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-41	313	-	RF-4	VERTICAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	5.5	MAGICAIRE MAUV	1,4,5,6
UV-42	314	-	RF-4	VERTICAL	1000	0.625	5	120/1	475	5	72	180	40.2	95	59485.1	3.1	45	80.7	56	26799.5	5.5	MAGICAIRE MAUV	1,4,5,6
UV-43	315	-	RF-5	VERTICAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUV	1,4,5,6
UV-44	307	SF-7	RF-7	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-45	402	SF-6	RF-9	HORIZONTAL	1500	0.625	5.9	120/1	625	5	72	180	44.1	95	82866.9	4.3	45	80.0	56	39060.0	8.1	MAGICAIRE MAUH	1,2,4,5,6
UV-46	404	SF-1	RF-10	HORIZONTAL	1500	0.625	5.9	120/1	575	5	72	180	46.3	95	79232.1	4.1	45	79.6	56	38409.0	7.9	MAGICAIRE MAUH	1,2,4,5,6
UV-47	403	SF-1	RF-11	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6
UV-48	401	SF-6	RF-12	HORIZONTAL	1000	0.625	5	120/1	500	5	72	180	38.5	95	61302.5	3.2	45	81.0	56	27125.0	5.6	MAGICAIRE MAUH	1,2,4,5,6

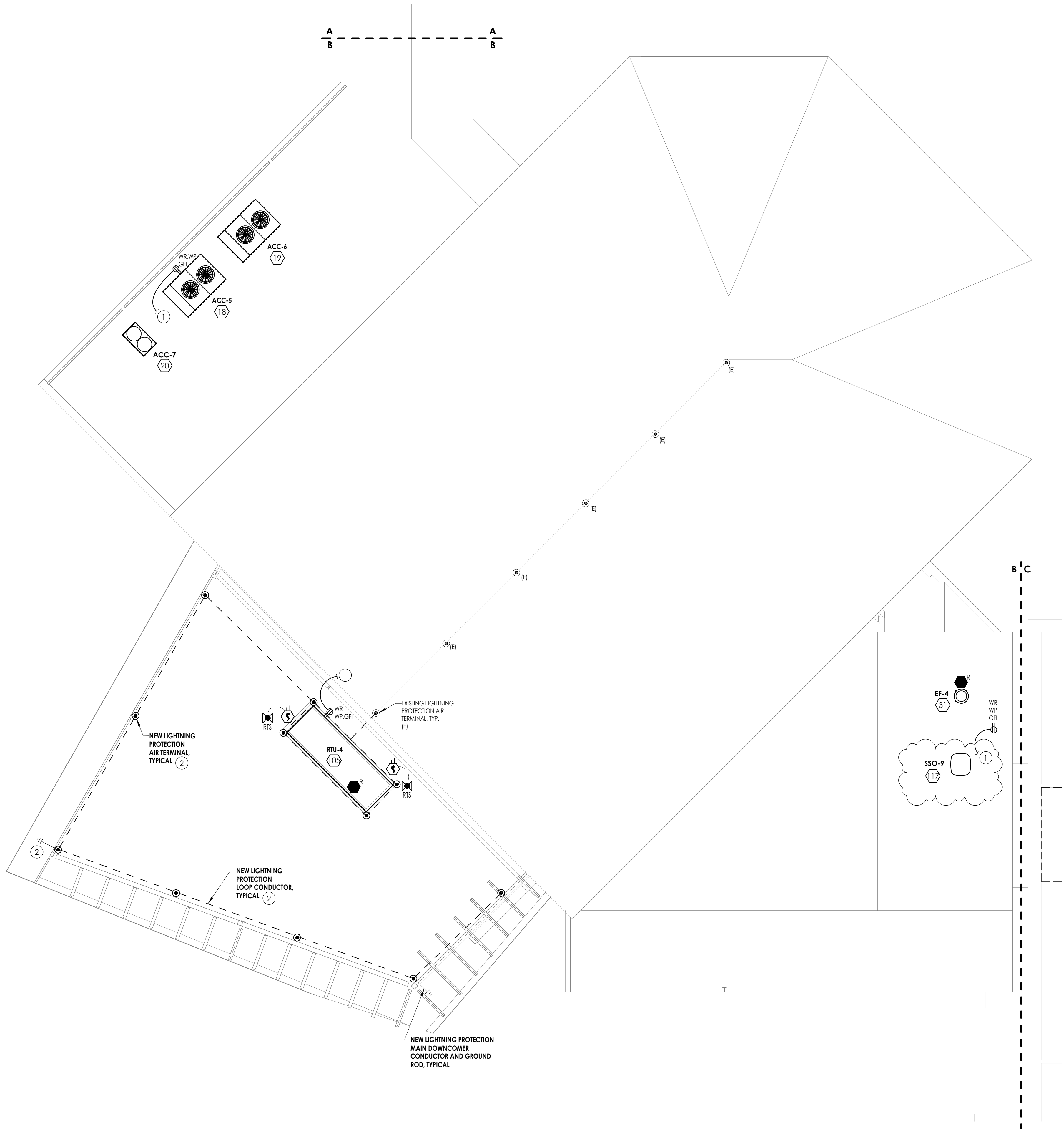
REMARKS:

1. FACTORY MOUNTED AND WIRED DISCONNECT. ALL UNIT CONTROL ACTUATORS FROM EXISTING RELOCATED BY OTHERS TO NEW UNIT.
2. CONDENSATE PUMP LITTLE CHAM VCC-20S, DRAIN PAN ALARM.
3. FULL ADAPTER WITH ENCLOSED PIPE TUNNEL, FINISHED ENDS.
4. ECM MOTORS.
5. MERV 14 FILTERS.
6. MOUNTED ABOVE THE CEILING.
7. FLOOR MOUNTED, PROVIDE WITH NEW LOUVER AND LINTLE.
8. ALTERNATE NO. MC-3

DUST COLLECTOR SCHEDULE - ALTERNATE NO. MC-5

MARK	MANUFACTURER	MODEL	SERVICE	DESIGN AIRFLOW
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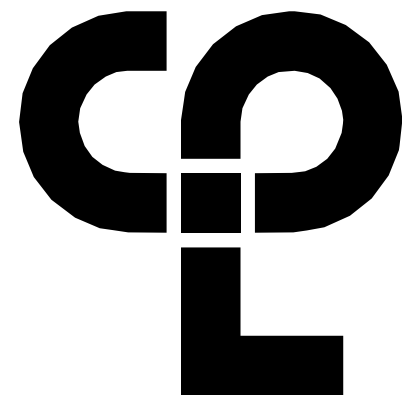
1 FIRST FLOOR OVERALL POWER AND SYSTEMS PLAN  
E201B 1/8" = 1'-0"

GENERAL NOTES:

- A. FIXTURES, DEVICES, AND EQUIPMENT LABELED AS "JE" ARE EXISTING AND ARE SHOWN FOR REFERENCE ONLY. ALL OF THESE DEVICES SHALL REMAIN OPERATIONAL FOLLOWING CONSTRUCTION.
- B. EQUIPMENT DESIGNATED WITH A NUMBER INSIDE OF A HEXAGON ARE SCHEDULED ON DRAWING E900. REFER TO EQUIPMENT WIRING SCHEDULE FOR BREAKER AND CIRCUITING INFORMATION.
- C. DISCONNECT SWITCHES AND STARTER DEVICES ASSOCIATED WITH HVAC EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ELECTRICAL CONTRACTOR. INCLUDE AN ADDITIONAL 10' OF CIRCUITING IN PRICING FOR INSTANCES WHERE A DISCONNECT MAY NOT BE MOUNTED DIRECTLY ON UNIT. E.C. IS RESPONSIBLE TO WIRE BOTH LINE AND LOAD SIDES OF DISCONNECT.
- D. UPDATE PANELBOARD DIRECTORIES TO REFLECT CHANGES MADE TO CIRCUITS WITH LOAD(S) AND ROOM(S) SERVED. LABEL ANY UNUSED BREAKER AS SPARE AND TURN TO OFF POSITION.
- E. FIRE ALARM SCOPE OF THIS PROJECT INCLUDES INSTALLING A NEW SIMPLEX 4100ES PANEL TO SERVE NEW AND RENOVATED AREAS WHILE MAINTAINING EXISTING SIMPLEX 4020 PANEL. ALL EXISTING DEVICES REMOVED IN THE DEMOLITION PHASE OF THE PROJECT SHALL BE REMOVED FROM THE SYSTEM PROGRAMMING OF THE 4020 PANEL. NEW INITIATION AND NOTIFICATION DEVICES SHOWN SHALL BE CONNECTED TO AND COMPATIBLE WITH THE NEW SIMPLEX 4100ES FIRE ALARM CONTROL PANEL LOCATED IN CUSTODIAN ROOM 50. PROVIDE NEW NOTIFICATION APPLIANCE CIRCUIT PANELS (WITH SMOKE DETECTOR WITHIN 5') WITH BATTERIES WHERE REQUIRED TO ACCOMMODATE NEW NOTIFICATION DEVICES. LOCATE SAID NAC PANEL IN A STORAGE OR ELEC/MECH ROOM, AND WIRE TO NEAREST AVAILABLE PANELBOARD WITH (2)#12, #12 GND. IN 3/4" CONDUIT. FOR PRICING PURPOSES, ASSUME 150' PER CIRCUIT. PROVIDE 20/1 CIRCUIT BREAKER AS REQUIRED.
- F. FIRE ALARM SPACING SHALL COMPLY WITH NFPA 72 REQUIREMENTS. ALL FIRE ALARM INITATION DEVICES SHOWN SHALL NOT BE LOCATED IN DIRECT AIRFLOW PATH OR CLOSER THAN 3' OF AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
- G. THE OPERABLE PART OF PULL STATIONS SHALL BE MOUNTED MORE THAN 3'-6" BUT LESS THAN 4'-0" ABOVE FINISHED FLOOR.
- H. FOR PUBLIC MODE, WALL MOUNTED VISUALS AND AUDIBLE/VISUALS SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR.
- I. THE MINIMUM REQUIRED CANDELA LEVEL IS INDICATED ADJACENT TO NEW VISUAL DEVICES. IF NOT INDICATED, MINIMUM ALLOWABLE SETTING IS 15 CANDELA.
- J. ACTIVATION OF BUILDING FIRE ALARM SYSTEM SHALL AUTOMATICALLY SHUT DOWN ALL FANS ASSOCIATED WITH HVAC UNITS IN THE BUILDING AS REQUIRED BY LOCAL, STATE, AND NATIONAL CODES. PROVIDE FIRE ALARM SHUT DOWN RELAYS IN EACH UNIT.
- K. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH ALL NFPA 72 REQUIREMENTS. ANY ALTERED CIRCUIT(S) SHALL HAVE ALL FIRE ALARM INITIATION DEVICES TESTED IN THEIR ENTIRETY AND 10% OF NEIGHBORING ZONE/LOOP DEVICES.
- L. PROVIDE 8" ROUND, FLUSH MOUNTED, WHITE CEILING SPEAKERS WHERE SHOWN. NEW SPEAKERS SHALL BE CONNECTED TO AND COMPATIBLE WITH EXISTING BUILDING PUBLIC ADDRESS SYSTEM. EXPAND EXISTING SYSTEM WITH ADDITIONAL AMPLIFIERS AS REQUIRED AT HEAD END LOCATION FOR A COMPLETE OPERATIONAL SYSTEM. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- M. ALL CABLING ABOVE ACCESSIBLE CEILINGS SHALL BE SUPPORTED VIA J-HOOK. J-HOOKS SHALL NOT EXCEED 5'-0" SPACING. ALL CABLING ABOVE INACCESSIBLE SPACES AND CEILINGS OPEN TO STRUCTURE SHALL BE IN CONDUIT.
- N. ALL EXPOSED RACEWAY SHALL BE PAINTED TO MATCH CEILING/WALL FINISH. CONTRACTOR SHALL USE APPROVED PAINT COLOR/TYPE.
- O. NEW CARBON MONOXIDE DETECTORS SHALL BE ADDRESSABLE AND BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.

KEY NOTES:

- 1 WIRE NEW GFI ROOFTOP SERVICE RECEPTACLE TO NEAREST 120V CONVENIENCE RECEPTACLE CIRCUIT IN CAFETERIA SPACE BELOW. WIRE WITH (2)#12, #12 GND. IN 1/2" CONDUIT.
- 2 PROVIDE EXTENSION TO EXISTING LIGHTNING PROTECTION SYSTEM. INSTALLATION SHALL INCLUDE: AIR TERMINALS, MAIN CONDUCTORS (DOWNCOMERS, ROOF LOOP CONDUCTORS, CONNECTION CONDUCTORS, AND GROUND LOOP CONDUCTORS), GROUND RODS, AND ALL CONNECTIONS. DOWNCOMERS TO BE INSTALLED IN 1" PVC CONDUIT AND ARE TO BE CONCEALED WITHIN BUILDING BLOCK OR STRUCTURE. GROUND ROD TO BE 3/4" X 10' MINIMUM COPPER CLAD STEEL ROD, MINIMUM 2 FEET FROM BUILDING. STEEL FRAMING OF BUILDING SHALL BE TIED INTO LIGHTNING PROTECTION SYSTEM.



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NEWBURGH, NY 12550  
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PROJECT INFORMATION

Project Number  
13940.18  
Client Name  
NEWBURGH ENLARGED CITY  
SCHOOL DISTRICT

Project Name  
PHASE 3: HERITAGE MIDDLE  
SCHOOL 2019 CAPITAL  
IMPROVEMENT PROJECT

Project Address  
405 Union Avenue, New Windsor, NY 12553  
SED Number

PROJECT ISSUE SCHEDULE

No.	Date	Description
1	9/17/21	BID ADDENDUM #1

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED. THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

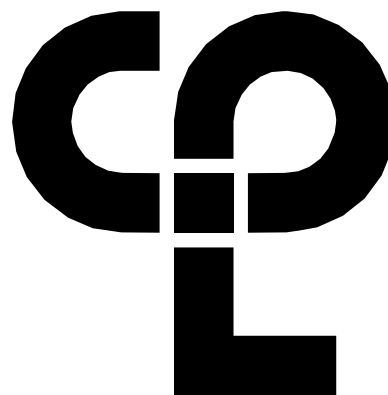
SHEET INFORMATION

Issued  
09/06/2021  
Project Status  
CONSTRUCTION DOCUMENTS  
Drawn By  
RJD  
Checked By  
ARM  
Drawing Title  
FIRST FLOOR POWER AND  
SYSTEMS PLAN - AREA B

Drawing Number

HMS  
E201B





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NEWBURGH, NY 12550  
CPLteam.com

#### PROJECT INFORMATION

Project Number  
13940.18  
Client Name

#### NEWBURGH ENLARGED CITY SCHOOL DISTRICT

#### PHASE 3: HERITAGE MIDDLE SCHOOL 2019 CAPITAL IMPROVEMENT PROJECT

Project Address  
405 Union Avenue, New Windsor, NY 12553

SED Number

#### PROJECT ISSUE SCHEDULE

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#### SHEET INFORMATION

Issued	Scale
09/06/2021	AS NOTED
Project Status	
CONSTRUCTION DOCUMENTS	
Drawn By	Checked By
RJD	ARM
Drawing Title	

#### EQUIPMENT WIRING AND LUMINAIRE SCHEDULES

Drawing Number

HMS  
E900

#### EQUIPMENT WIRING SCHEDULE

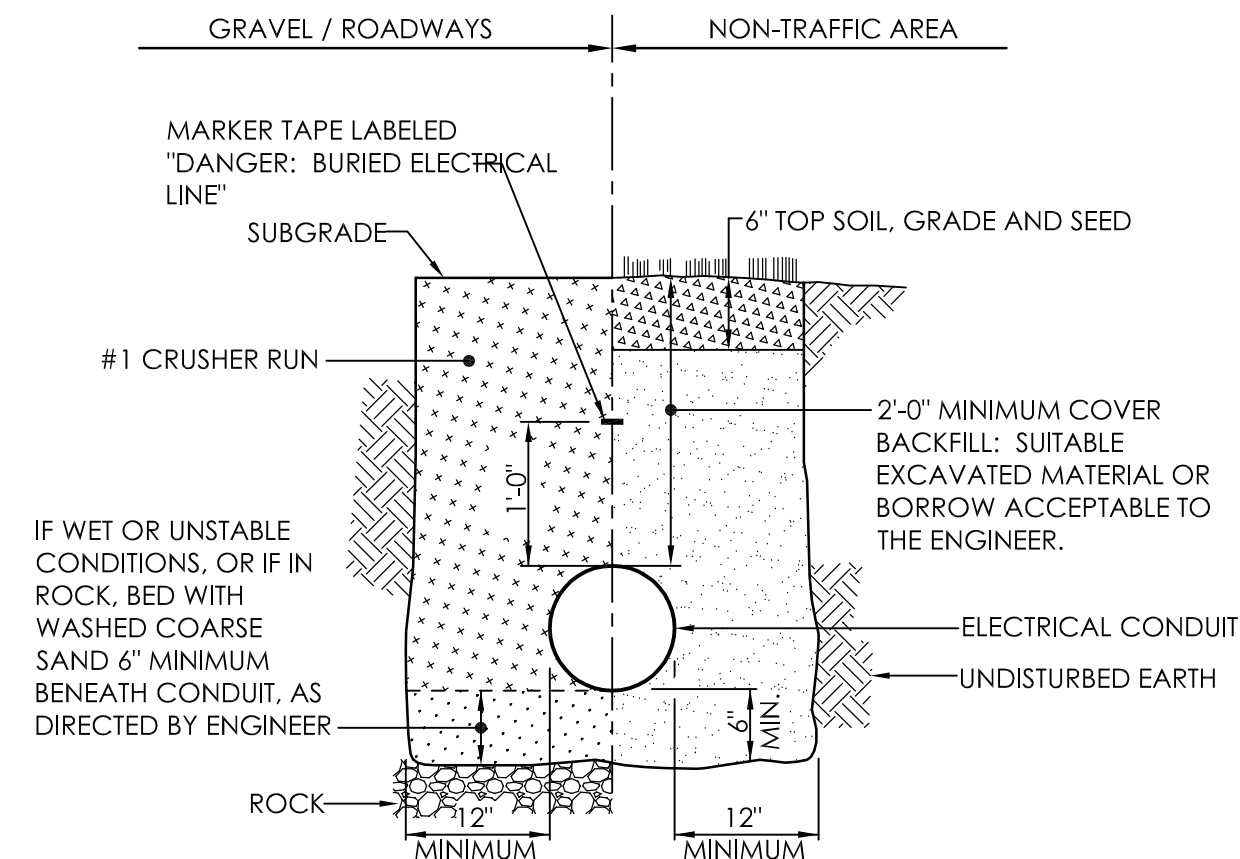
ITEM #	MARK	Room Location	VOLTS	PH	HP	FLA	WIRING/CONDUIT	BREAKER	PANEL	CIRCUIT	REMARKS
1	AHU-1	STORAGE 604	208 V	3		8.0 A	(3)#12, #12G IN 3/4"C	15/3	P-10	2,4,6	1
2	AHU-2	STORAGE 606	208 V	3		8.0 A	(3)#12, #12G IN 3/4"C	15/3	P-10	8,10,12	1
3	AHU-3	STORAGE 600A	208 V	3		8.0 A	(3)#10, #10G IN 3/4"C	15/3	P-9	8,10,12	1
4	AHU-4	STORAGE 600B	208 V	3		8.0 A	(3)#12, #12G IN 3/4"C	15/3	P-9	14,16,18	1
5	AHU-5	KITCHEN	208 V	3		8.0 A	(3)#12, #12G IN 3/4"C	15/3	PK-1	2,4,6	1,5
6	AHU-6	STORAGE 435	208 V	3		8.0 A	(3)#12, #12G IN 3/4"C	15/3	PK-1	8,10,12	1,6
7	SSI-9	SECURITY OFFICE	208 V	1		0.3 A	(2)#12, #12G IN 3/4"C	20/2	P-9	28,30	1,7,19
8	RTU-1	ROOF	208 V	3		54.0 A	(3)#4, #8G IN 1-1/4"C	90/3	MSB	-	1,2,5,9
9	RTU-2	ROOF	208 V	3		54.0 A	(3)#4, #8G IN 1-1/4"C	90/3	MSB	-	1,2,5,9
10	RTU-3	ROOF	208 V	3		54.0 A	(3)#4, #8G IN 1-1/4"C	90/3	MSB	-	1,5,9
11	PUMP P-1	PUMP ROOM 423	208 V	3	15 HP	48.3 A	(3)#4, #8G IN 1-1/4"C	90/3	P-9	1,3,5	1
12	PUMP P-2	PUMP ROOM 423	208 V	3	15 HP	48.3 A	(3)#4, #8G IN 1-1/4"C	90/3	P-9	7,9,11	1
13	FC-1	CUSTODIAN ROOM 159	120 V	1		1.0 A	(2)#12, #12G IN 3/4"C	20/1	P3, SEC. 1	11	1,5,18
14	ACC-1	EXTERIOR AT GRADE	208 V	3		57.0 A	(3)#4, #8G IN 1-1/4"C	80/3	P-10	1,3,5	1
15	ACC-2	EXTERIOR AT GRADE	208 V	3		57.0 A	(3)#4, #8G IN 1-1/4"C	80/3	P-10	7,9,11	1
16	ACC-3	EXTERIOR AT GRADE	208 V	3		57.0 A	(3)#4, #8G IN 1-1/4"C	80/3	P-10	13,15,17	1
17	ACC-4	EXTERIOR AT GRADE	208 V	3		57.0 A	(3)#4, #8G IN 1-1/4"C	80/3	P-10	19,21,23	1
18	ACC-5	KITCHEN ROOF	208 V	3		38.0 A	(3)#8, #10G IN 1"C	50/3	P-9	19,21,23	1
19	ACC-6	KITCHEN ROOF	208 V	3		63.0 A	(3)#4, #8G IN 1-1/4"C	90/3	P-9	25,27,29	1
20	ACC-7	KITCHEN ROOF	208 V	3		70.0 A	(3)#4, #8G IN 1-1/4"C	90/3	P-9	31,33,35	1
21	EF-2	STORAGE 600B	120 V	1	1/4 HP	3.8 A	(3)#12, #12G IN 3/4"C	20/1	P-9	13	1
22	SSI-1	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4"C	15/2	P-9	2,4	1,7
23	SSI-2	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4"C	15/2	P-9	2,4	1,7
24	SSI-3	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4"C	15/2	P-9	2,4	1,7
25	SSI-4	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4"C	15/2	P-9	2,4	1,7
26	SSI-5	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4"C	15/2	P-9	2,4	1,7
27	SSI-6	CAFETERIA 448	208 V	1		0.3 A	(2)#12, #12G IN 3/4"C	15/2	P-9	2,4	1,7
28	CH-1	EXTERIOR AT GRADE	208 V	3		560.0 A	2 SETS OF (3)#500, #1/0G IN 3-1/2"C	800/3	DP-HVAC	-	1,17
29	EF-1	STORAGE 600A	120 V	1	1/4 HP	3.8 A	(2)#12, #12G IN 3/4"C	20/1	P-8	1	1,5
30	EF-3	ROOF	208 V	1	1/2 HP	5.4 A	(2)#12, #12G IN 3/4"C	20/2	P-11	16,18	1
31	EF-4	ROOF	208 V	1	1/2 HP	5.4 A	(2)#12, #12G IN 3/4"C	20/2	P3, SEC. 2	38,40	1,8
32	EF-5	ROOF	208 V	1	1/2 HP	4.9 A	(2)#12, #12G IN 3/4"C	20/2	P-11	16,18	1
33	EF-6	ROOF	208 V	1	2 HP	12.0 A	(2)#12, #12G IN 3/4"C	20/2	P-11	20,22	1
34	FC-2	GROUND FLOOR CORRIDOR	120 V	1		1.0 A	(2)#12, #12G IN 3/4"C	20/1	P-1A	14	1,2,15,18
35	UV-1	MUSIC 438	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P-8	-	1,5,18
36	UV-2	ROOM 105	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P1, SEC. 1	32	1,10,18
37	UV-3	ROOM 105A	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P1, SEC. 1	32	1,10,18
38	UV-4	CORRIDOR - GROUND	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P1, SEC. 1	32	1,10,18
39	UV-5	ROOM 104	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P1, SEC. 1	33	1,2,5,18
40	UV-6	ROOM 101	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P1, SEC. 1	35	1,2,5,18
41	UV-7	ROOM 114	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P-2	-	1,2,5,18
42	UV-8	ROOM 113A	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P2, SEC. 2	35	1,10,18
43	UV-9	ROOM 113B	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P2, SEC. 2	35	1,10,18
44	UV-10	ROOM 112	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P2, SEC. 2	35	1,10,18
45	UV-11	ROOM 109	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P2, SEC. 2	33	1,10,18
46	UV-12	ROOM 110	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P2, SEC. 2	33	1,10,18
47	UV-13	ROOM 111	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P2, SEC. 2	33	1,10,18
48	UV-14	ROOM 206	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P3, SEC. 1	35	1,10,18
49	UV-15	ROOM 204	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P3, SEC. 1	35	1,10,18
50	UV-16	ROOM 203	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P3, SEC. 1	35	1,10,18
51	UV-17	ROOM 202	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P3, SEC. 1	20	1,10,18
52	UV-18	ROOM 201	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2	40	1,8,18
53	UV-19	ROOM 209	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2	9	1,10,18
54	UV-20	ROOM 215	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2	9	1,10,18
55	UV-21	ROOM 214	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2	9	1,10,18
56	UV-22	ROOM 216	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2	9	1,10,18
57	UV-23	ROOM 212	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2	40	1,8,18
58	UV-24	ROOM 213	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 1	19	1,11,18
59	UV-25	ROOM 210	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 2	40	1,8,18
60	UV-26	ROOM 306	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	17	1,10,18
61	UV-27	ROOM 305	120 V	1		3.7 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	17	1,10,18
62	UV-28	ROOM 304	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	33	1,8,18
63	UV-29	ROOM 309	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	20	1,10,18
64	UV-30	ROOM 310	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	20	1,10,18
65	UV-31	ROOM 303	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	22	1,10,18
66	UV-32	ROOM 302	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	22	1,10,18
67	UV-33	ROOM 311	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P6, SEC. 2	18	1,10,18
68	UV-34	ROOM 312	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P6, SEC. 2	18	1,10,18
69	UV-35	ROOM 301	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	22	1,10,18
70	UV-36	ROOM 321	120 V	1		3.7 A	(2)#12, #12G IN 3/4"C	20/1	P6, SEC. 1	29	1,11,18
71	UV-37	ROOM 320	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P6, SEC. 2	18	1,10,18
72	UV-38	ROOM 318	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P6, SEC. 1	27	1,10,18
73	UV-39	ROOM 317	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P6, SEC. 1	27	1,10,18
74	UV-40	ROOM 316	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P6, SEC. 1	27	1,10,18
75	UV-41	ROOM 313	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P-11	14	1,18
76	UV-42	ROOM 314	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P-11	14	1,18
77	UV-43	ROOM 315	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P-11	14	1,18
78	UV-44	ROOM 307	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P5, SEC. 1	20	1,10,18
79	UV-45	ROOM 402	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P7	29	1,10,18
80	UV-46	ROOM 404	120 V	1		4.7 A	(2)#12, #12G IN 3/4"C	20/1	P7	18	1,10,18
81	UV-47	ROOM 405	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P7	18	1,10,18
82	UV-48	ROOM 401	120 V	1		4.0 A	(2)#12, #12G IN 3/4"C	20/1	P7	29	1,10,18
83	FC-5	FIRST FLOOR CORRIDOR	120 V	1		1.0 A	(2)#12, #12G IN 3/4"C	20/1	P4, SEC. 1	20	1,2,16,18
84	SF-1	ATTIC	208 V	3	5 HP	16.7 A	(3)#8, #10G IN 1"C	35/3	P-11	31,33,35	1
85	SF-2	ATTIC	208 V	3	1/2 HP	2.4 A	(3)#12, #12G IN 3/4"C	20/3	P-11	25,27,29	1
86	SF-3	ATTIC	208 V	3	5 HP	16.7 A	(3)#8, #10G IN 1"C	35/3	P-11	2,4,6	1
89	SF-6	ATTIC	208 V	3	2 HP	7.5 A	(3)#12, #12G IN 3/4"C	20/3	P-11	7,9,11	1
90	SF-7	ATTIC	208 V	3	3 HP	10.6 A	(3)#12, #12G IN 3/4"C	20/3	P-11	13,15,17	1
91	SF-8	ATTIC	208 V	3	5 HP	16.7 A	(3)#8, #10G IN 1"C	35/3	P-11	1,3,5	1
92	RF-1	ATTIC	208 V	3	7-1/2 HP	24.2 A	(3)#8, #10G IN 1"C	50/3	P-11	37,39,41	1
93	RF-2	ATTIC	208 V	3	1-1/2 HP	6.6 A	(3)#12, #12G IN 3/4"C	20/3	P-11	25,27,29	1
94	RF-3	ATTIC	208 V	3	1/2 HP	2.4 A	(3)#12, #12G IN 3/4"C	20/3	P-11	25,27,29	1
95	RF-4	ATTIC	208 V	3	1/3 HP	2.4 A	(3)#12, #12G IN 3/4"C	20/3	P-11	8,10,12	1
96	RF-5	ATTIC	208 V	3	1/4 HP	2.4 A	(3)#12, #12G IN 3/4"C	20/3	P-11	8,10,12	1
97	RF-6	ATTIC	208 V	3	2 HP	7.5 A	(3)#12, #12G IN 3/4"C	20/3	P-11	19,21,23	1
98	RF-7	ATTIC	208 V	3	1-1/2 HP	6.6 A	(3)#12, #12G IN 3/4"C	20/3	P-11	28,30,32	1
99	RF-8	ATTIC	208 V	3	3 HP	10.6 A	(3)#12, #12G IN 3/4"C	20/3	P-11	34,36,38	1
100	DC-1 FAN MOTOR	EXTERIOR AT GRADE	208 V	3	7.5 HP	25.3 A	(3)#8, #10G IN 1"C	50/3	PT-2	3,5,7	1,2,4,8



PANEL NAME: P-9			PANEL LOCATION: Ground Floor Storage Room 440							Revised: 09/16/21								
										Notes:								
										22KAIC RATING								
			VOLTS		AMPS		PHASE		# CCTS		LUGS		BKR					
			208/120		400		3		42				400A					
DESCRIPTION			BREAKER		LINE 1		LINE 2		LINE 3		BREAKER		DESCRIPTION					
1	Pump P-1		90/3		48.3		2.7						CAFETERIA SSI UNITS 1-8					
					48.3		2.7											
									48.3		7.2				20/1			
3																		
5													GMP-1					
7	Pump P-2		90/3		48.3		8						AHU-3					
					48.3		8											
									48.3		8				15/3			
9																		
11																		
13	EF-2		20/1		3.8		8						AHU-4					
15	SSI CONDENSATE PUMPS		20/1						9		8							
17	HEAT TRACE - CHILLER		20/1								10				8			
19	ACC-5		50/3		38								SPARE					
							38											
									38						20/3			
21																		
23									38									
25	ACC-6		90/3		63		5						CHEMICAL POT FEEDER					
											20/1							
															20/2			
27													SSO-9 & SSI-9					
29											63				9.8		20/2	
31																	20/1	
33	ACC-7		90/3		70								SPARE					
							70								20/1			
											70						20/1	
35													SPARE		34			
37	SPARE		20/3										SPARE					
															20/1			
																	SPARE	
39													SPACE		40			
41															SPACE			
					295.1				305.1				310.6					

PANEL NAME: P-10			PANEL LOCATION: STORAGE ROOM 606							Revised: 07/15/21	
										Notes:	
										22KAIC RATING	
			VOLTS		AMPS	PHASE	# CCTS	LUGS	BKR		
			208/120		400	3	30		350A		
DESCRIPTION			BREAKER	LINE 1		LINE 2		LINE 3		BREAKER	DESCRIPTION
1	ACC-1	80/3		57	8					15/3	AHU-1
3					57	8					
5							57	8			
7	ACC-2	80/3		57	8					15/3	AHU-2
9					57	8					
11							57	8			
13	ACC-3	80/3		57	4.5					20/1	HVAC SERVICE RECEPT.
15					57				20/1	SPARE	
17							57		20/1	SPARE	
19	ACC-4	80/3		57						20/1	SPARE
21					57					SPACE	
23							57			SPACE	
25	SPARE	20/3									SPACE
27										SPACE	
29										SPACE	
			248.5		244		244				

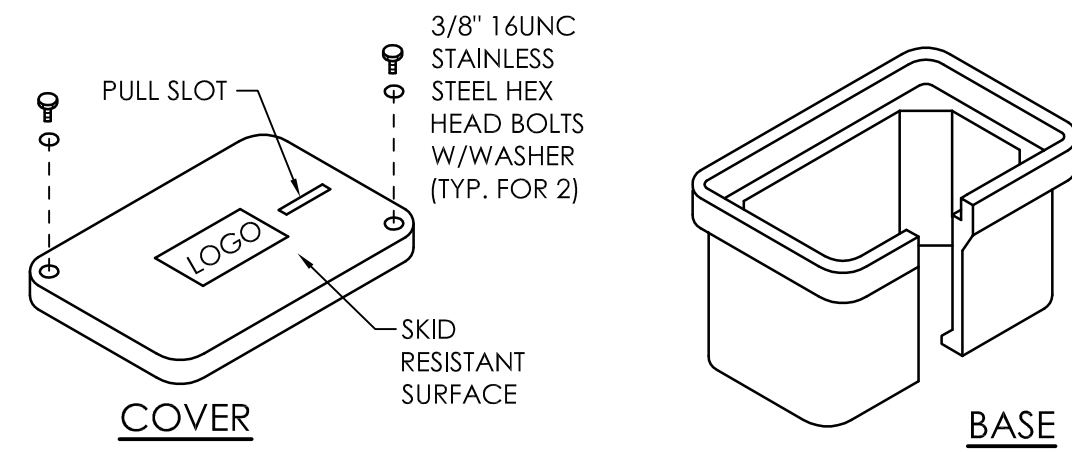
PANEL NAME: P-11			PANEL LOCATION: Attic							Revised: 08/11/21	
										Notes:	
										22KAIC Rating	
			VOLTS	AMPS	PHASE	# CCTS	LUGS	BKR			
			208/120	225	3	42		225			
DESCRIPTION			BREAKER	LINE 1		LINE 2		LINE 3		BREAKER	DESCRIPTION
1	SF-8	35/3	16.7	16.7						35/3	SF-3
3					16.7	16.7					
5							16.7	16.7			
7	SF-6	20/3	7.5	4.8						20/3	RF-4, RF-5
9					7.5	4.8					
11							7.5	4.8			
13	SF-7	20/3	10.6	12						20/1	UV-41, UV-42, UV-43
15					10.6	10.3					
17							10.6	10.3			
19	RF-8	20/3	7.5	12						20/2	EF-3, EF-5
21					7.5	12					
23							7.5	1.5			
25	SF-2, RF-2, RF-3	20/3	11.4	10.5						20/1	ROOF SERVICE RECEPT. HVAC SERVICE RECEPT.
27					11.4	6.6					
29							11.4	6.6			
31	SF-1	35/3	16.7	6.6						20/3	RF-7
33					16.7	10.6					
35							16.7	10.6			
37	RF-1	50/3	24.2	10.6						20/1	SPARE
39					24.2						
41							24.2				
			167.8		155.6		145.1				



NOTES:

- 1) ALL MATERIAL PLACED IN GRAVEL/ROADWAY AREAS SHALL BE COMPACTED IN MAXIMUM 6" LIFTS.
- 2) THIS TRENCH DETAIL SHALL INCLUDE THE REQUIREMENTS COMMON TO MORE THAN ONE SECTION OF DIVISION 2 OF THE SPECIFICATIONS.

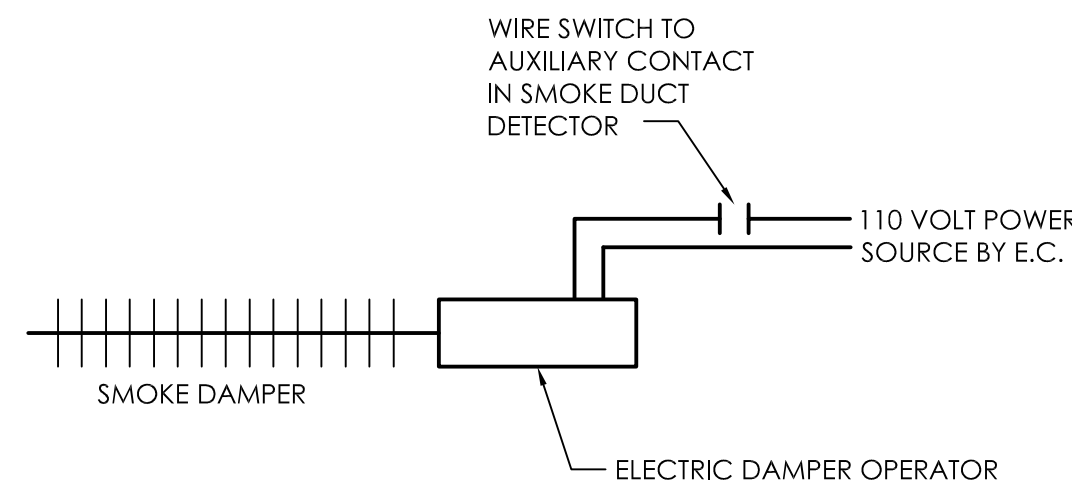
1  
E901  
TYPICAL TRENCH DETAIL FOR CONDUIT  
NOT TO SCALE



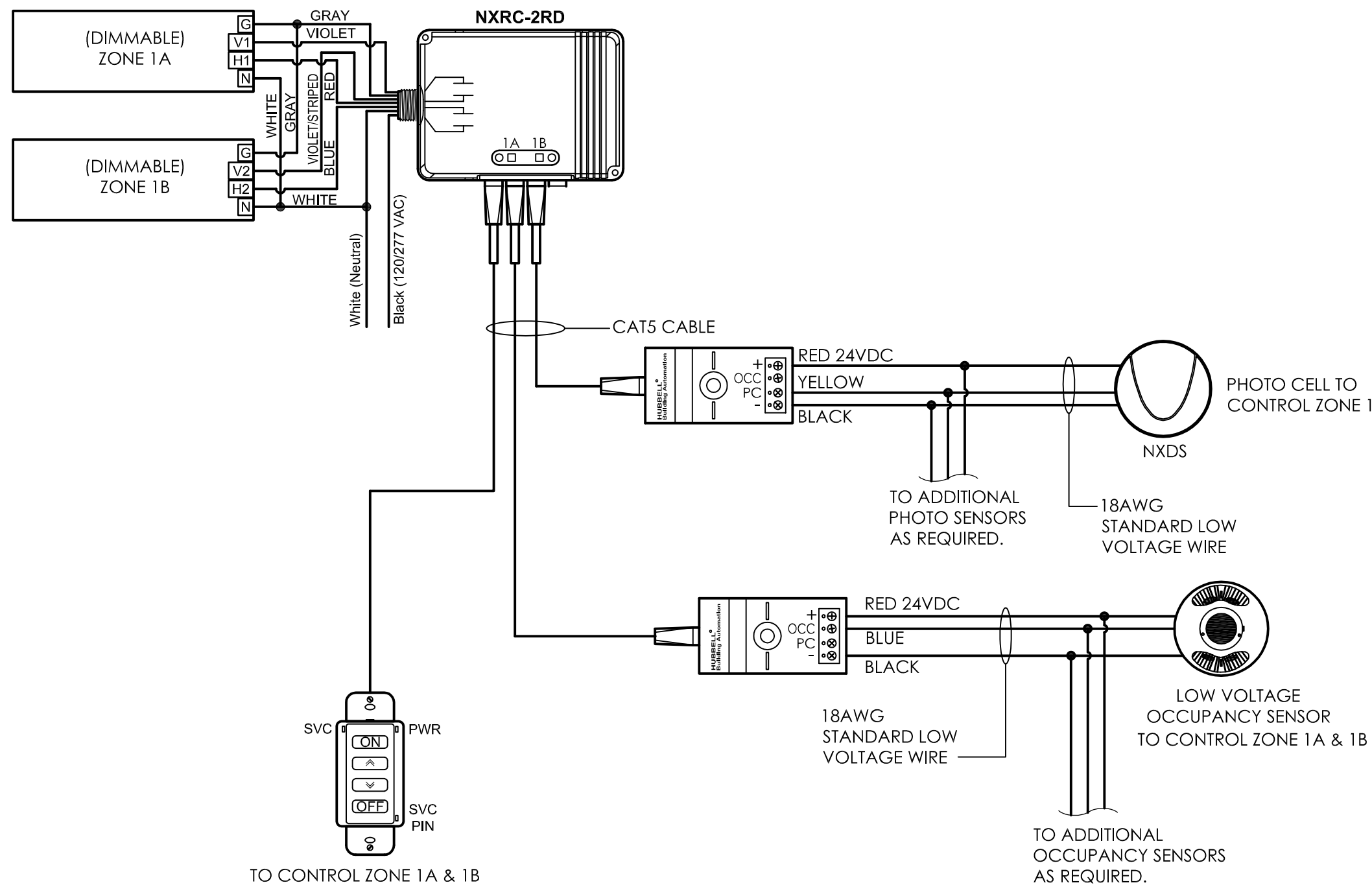
NOTES:

1. PROVIDE QUAZITE OPEN BOTTOM POLYMER HANDHOLE OR EQUAL.
2. COORDINATE DEPTH OF HANDHOLES WITH FIELD CONDITIONS. HANDHOLES TO BE LOCATED IN NON-TRAFFIC GRASS AREAS WITH TOP FLUSH WITH FINISHED GRADE.
3. PROVIDE 12" MINIMUM CRUSHED STONE BELOW HANDHOLE FOR DRAINAGE.
4. FILL AND COMPACT THE SOIL AROUND THE HANDHOLE TO GRADE LEVEL WITH THE COVER ON THE ENCLOSURE.

2  
E901  
TYPICAL HANDHOLE DETAIL  
NOT TO SCALE



3  
E901  
SMOKE DAMPER CONTROL DETAIL  
NOT TO SCALE



4  
E901  
TYPICAL LIGHTING CONTROL DIAGRAM  
NOT TO SCALE

LIGHTING CONTROL NOTES:

- A. DETAIL SHOWN IS A TYPICAL LAYOUT AND SHOWN FOR CLARITY OF COMPONENTS AND WIRING. IT IS NOT INTENDED TO SHOW EVERY SCENARIO IN DIFFERENT TYPE SPACES. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL MATERIALS REQUIRED TO PROVIDE THE QUANTITY OF CONTROL ZONES, CIRCUITS, AND DIMMING ARRANGEMENTS SHOWN ON LIGHTING PLANS.

PROJECT INFORMATION

Project Number  
13940.18  
Client Name  
NEWBURGH ENLARGED CITY  
SCHOOL DISTRICT  
Project Name  
PHASE 3: HERITAGE MIDDLE  
SCHOOL 2019 CAPITAL  
IMPROVEMENT PROJECT

Project Address  
405 Union Avenue, New Windsor, NY 12553

SED Number  
44-16-00-01-0-039-011

REVISION SCHEDULE

No. Date Description  
1 9/17/21 BID ADDENDUM #1

SHEET INFORMATION

Issued  
09/06/2021  
Scale  
AS NOTED  
CONSTRUCTION DOCUMENTS  
Checked By  
RJD  
Drawing Title  
ELECTRICAL DETAILS AND  
PANELBOARD SCHEDULES

Drawing Number

HMS  
E901