ADDENDUM NO. 2

DATE: March 6, 2020

ARCHITECT: Smolen, Emr, Ilkovitch Architects, Inc.
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OWNER: Howard County Public School System

PROJECT: Hammond High School Renovation and Addition
Columbia, Maryland
Architect Project No. 18011

TO: All Prospective Bidders

The following changes are made a part of the Drawings and Specifications for the subject project, dated February 25, 2020. Receipt of this Addendum is to be acknowledged, in the space provided in the Bid Form. Failure to do so may subject the Bid to be considered as non-responsive.

A. REQUESTS FOR INFORMATION

1. I couldn't find the structural plans. The cover page says they're in Volume 2, but when you download Volume 2 all that's there are Architecturals. Am I missing something?

   RESPONSE: Please see Addendum 1. The Kitchen, AV, Theatre, and Structural drawings were not included originally.

2. Could you tell me if you will be needing third party materials testing/special inspections for the Hammond High School project in Ellicott City? If so, we are happy to provide an estimate for our services for your review.

   RESPONSE: Testing and inspections are contracted by HCPSS separately from this bid process.

3. Does this project have any Highway Guardrail on it?

   RESPONSE: Please thoroughly review civil plans. Guard Rail appears to be present at the retaining wall.

4. Start and finish dates? I see there are a lot of phases just trying to ballpark scientific casework phases.
   -Taxable?
   -Wage type? Open? Prevailing? Bacon Davis? Etc.
   -Any unusual conditions or concerns with project?

   RESPONSE: Please thoroughly review Phasing plans and Specifications for approximate start and finish dates.

   Base bid is Wage Scale per bid proposal form found in Division 0 of Specifications.

Unusual conditions and concerns are objective in nature. Please thoroughly review all Bidding Documents (Drawings, Specifications, Addenda, etc.) to make a determination.

The project is taxable.

5. Please clarify the pre bid conference. The below says Wednesday 3/3. Wednesday is actually 3/4. Tuesday is 3/3. Please advise the correct date and time. What exactly will be covered in this conference meeting? If necessary, I would schedule a survey technician to be present. How can I find out about the roof specifications? Scope of work, timing of various aspects of the roofs, existing roof composition (if there are parts of the building that need a reroof as opposed to new construction roof).

   RESPONSE: Please see Addendum 1. Pre-bid Conference is scheduled for March 3rd, 2020 at 3:30PM.

   Pre-bid meeting will include an overall project description and review of bid procedures. Access to the site will be guided by HCPSS and JVS to observe existing conditions of the project.

   Survey of existing roof composition will be provided via addendum.

6. There is a wood lab casework spec for the science rooms. I assume this is the product they want.

   - Conflict is that Sheet A9.11 calls out the science casework to be Stevens Advantage regular laminate casework. There are then product numbers under the elevations to confirm that it is regular laminate casework.

   - If this indeed wood lab casework, are we able to just pick up all the lab casework, fume hoods and accessories? Sometimes we will pick up all the laminate casework and millwork as well. If this is an all or nothing project, then we probably won't pursue.

   - is this project an instance of us pricing one of the several GCs and not sending anything to you?

   RESPONSE: Stevens Advantage number to describe basis of design casework size/layout. Construction to meet requirements listed in Specification section 123553 "Wood Laboratory Casework''

   This is a Multi-Prime project. Bids to HCPSS shall be for complete Contract Packages for each Prime Contract as stated in the Contract Documents. Please reference Specification Section Section 01 02 00 - Contract Packages among other Division 0 and Division Requirements. Contractors may bid as a sub-contractor to potential Prime Contractors.

   All Bids shall be submitted in accordance with Division 0 requirements to HCPSS in the format indicated in the Bid Documents.

7. I had a question for you regarding Hammond High School. I have looked through all the plans and specs and could not seem to find the color the architect has chosen for the aluminum storefront, curtain wall and windows and doors.

   Maybe I have overlooked it or not there. Can you please lead me in the right direction to find it or let me know what the color is? Maybe it's not chosen yet. It Lists the finish and coating but no color.

RESPONSE: Color to be selected after bid from manufacturer's full range of colors.

8. Will there be any formal bid packages/scopes of works for this project?

   RESPONSE: Please Reference Contract Packages. This is a Multi-Prime Project.

9. Finish schedule and finish plans indicate RF (Resilient Flooring) for Stair treads / landings in Stairwell towers, else where on details on floor plans and in specifications quarry tile is called out for stair treads and intermediate landings with painted risers
   Please confirm the intent.

   RESPONSE: Stairs treads and intermediate landings are to receive quarry tile flooring. Resilient flooring is to be provided on all other floor surfaces within the stair tower (i.e. base of stair and top landings.

10. I see an ACM report in the specs. Is that going to be handled separately by the owner, is the abatement going to be bid out?

    RESPONSE: Please refer to Contract Packages. Abatement and Demolition are a part of the 1A Prime Contractor Package.

11. I did not see any NanaWall-type folding or sliding/pocketing glass walls on this project, so we do not have a product to bid. If I missed something, please let me know.

    RESPONSE: There are no operable partition walls within the project.

12. Will there be a second walk through by chance?

    RESPONSE: The school will be made available for additional walkthroughs on Tuesday 3/10 at 3:30pm and Thursday 3/12 and 3:30pm

13. What size Aluminum doors and frames will need to be used? Narrow, Medium or wide style?

    RESPONSE: Provide heavy-duty, wide stile aluminum doors, basis of design EFCO D618.

14. We just bid AV systems for a very similar High School in Howard County called HS-#13 and that project had AV line drawings for the IP Video, Café, Gym, Aux Gym and Dance spaces in a T series of drawings. While addenda 1 for this project just included the AV drawings, these are only for the Auditorium AV.

    Can you tell me if they have any AV line drawings for these other spaces and if so how can I get a copy?

    RESPONSE: See electrical drawings for AV items beyond the auditorium.

15. I understand the walk through is today at 3:30. I got up today with a full blown flu. I don't think I should be around people. Please advise on how I can proceed with this bid.

    RESPONSE: The pre-bid was not mandatory.

16. Is there asbestos abatement as part of this? I'm hearing there is, but I cannot find any asbestos related information in the docs.

    RESPONSE: Review specification section 02 41 19.

17. Roof system demolition where roof deck and roof structure to be demolished;

    Please confirm that roof system demolition where roof deck and roof structure to be demolished should be done by 1A-General Trades.

    Also, please confirm that there is no Asbestos/Lead content materials in existing roofing system; Asbestos report in Specification Div.2-Existing Conditions, doesn't reveal asbestos sampling in existing roof.

    RESPONSE: Roofing inspection report will be provided via addendum. No ACBM were found.

    The 1A Prime Contractor shall demolish and remove from site existing roofing materials at locations where existing structure is demolished in its entirety.

18. There is no Bid Package for the wood flooring. Can you let me know

    RESPONSE: Please review bid documents. The wood flooring is in the 1A Prime Contract Package. Review phasing plan for phases associated with gym work.

19. I am emailing you with questions regardings the invitation to bid that our company received for the above project. CJ's Trucking Inc. is a Trucking/Hauling Company. Our services include hauling dirt, brick, stone ,millings and other agregates and construction materials. Our company is a Subcontracting Company. We Sunbcontract our services to companies like yours. Upon reviewing the bid documents I noticed the bid documents are for the prime contractors bidding. My question is since we are a Subcontracting Company which part of the bid documents should I submitt to you if any, or do you require a price quote from my company to go along with your primary bid. Thank you in advance for any help you can give for this inquiry. Please feel free to contact me if necessary.

    RESPONSE: There is no Prime Contract Package for trucking. You will need to bid to one of the Prime Contract bidders.

20. I don't see blinds on the architectural drawings, although it certainly appears as though they are spec'd.

    RESPONSE: Provide window treatment as scheduled within the specifications.

21. Depending on the scope of work it is my hope that Shaw Sports Turf can be an approved alternate for the field project. Please let me know if you need any additional information from me for this inquiry.

    RESPONSE: Please review Specification Section 00 10 00, AIA Document A701 – Instructions to Bidders, Article 3, Bidding Documents, 3.3 Substitutions

B. CHANGES TO SPECIFICATIONS

- 01 02 00 – Contract Packages
  - **ADD** Subparagraph 3.B.58 as follows:

    Contractor shall provide all irrigation work.

  - **ADD** Subparagraph 3.A.75 as follows

The 1A Prime Contractor shall provide all demolition associated with the skylight. The 1A Prime Contractor shall provide temporary protection of the opening until the opening is turned over to the 7A Prime Contractor ready for installation of the skylight.

- ❑ 07 81 23 – Intumescent Fireproofing
  - **ADD** Section in its entirety
- ❑ 10 14 00 – Signage
  - **ADD** Subsection 2.2 E as follows:

    E. Assistive Listening System Signage

    1. Laminated-Sheet Sign, construction per 2.2.A.1
    2. Size and layout to match type 3 sign shown in Interior Room Sign Detail 1/A9.21.
    3. 2 signs required.
       a. One to be mounted in Corridor G129 adjacent to rolling counter door H129.1 (Tickets/Concessions H129)
       b. One to be mounted in Corridor H101 adjacent to doors H136 & H136.1 (Vestibule H136)
    4. Mounting: Surface mounted to wall with two-face tape.
- ❑ 26 32 13 – Emergency Engine Generator
  - **REPLACE** Subparagraph 2.1.A.1 with the following

    1. ~~Caterpillar~~ MTU

B. CHANGES TO DRAWINGS

1. **<u>CIVIL DRAWINGS</u>**

- ❑ Sheet C-4 – SITE DEVELOPMENT PLAN
  - **ADD** alternate callout, see AD-C02
  - **ADD** proposed drainage pipe from canopy, see AD-C02.
  - **ADD** proposed drainage pipe canopy, see AD-C03.
- ❑ Sheet C-6 – GEOMETRY PLAN AND STRIPING PLAN (C-6)
  - **ADD** additional signage, see AD-C01.
  - **ADD** additional signage, see AD-C04.
  - **ADD** references to architectural items detailed on the architectural plans, see AD-C04.
  - **ADD** stop bars in parking lot, see AD-C05.
  - **ADD** crosswalk across main entrance to the site, see AD-C06

2. **<u>ARCHITECTURAL DRAWINGS</u>**

- ❑ Sheet A0.03 – CODE ANALYSIS PLAN – FLOOR 1

- **ADD** the following note within room CAFETERIA C101

  "ALL COLUMNS, BEAMS & FLOOR DECK ABOVE TO BE FIREPROOFED W/ INTUMESCENT COATING. BASIS OF DESIGN CAFCO SPRAYFILM WB5

  FLOOR DECK ASSEMBLY UL D601

  COLUMN ASSEMBLY UL Y615"

- ❑ Sheet A2.01 - FLOOR PLAN - FLOOR 1 - AREA A
  - **REVISE** door location as indicated in AD-A04.
- ❑ Sheet A2.06 - FLOOR PLAN - FLOOR 1 - AREA G
  - **REVISE** door locations as indicated in AD-A03.
- ❑ Sheet A2.53 – RCP – FLOOR 1 – AREA C
  - **ADD** elevation tags to exterior MDO soffits and masonry lintels as indicated in AD-A01.
- ❑ Sheet A2.54 – RCP – FLOOR 1 – AREA D
  - **ADD** elevation tags to exterior MDO soffits and masonry lintels as indicated in AD-A01.
- ❑ Sheet A2.56 – RCP – FLOOR 1 – AREA G
  - **ADD** elevation tags to exterior MDO soffits and masonry lintels as indicated in AD-A01.
- ❑ Sheet A4.05 – RCP – FLOOR 1 – AREA C
  - **REVISE** MDO soffit and masonry opening elevations at typical alcove as indicated in AD-A02.
- ❑ Sheet A6.04 – VERTICAL CIRC. PLANS AND DETAILS - AUDITORIUM & CATWALK
  - **ADD** detail 7 in its entirety as indicated in AD-A06.
- ❑ Sheet A8.01 – DOOR SCHEDULE - FIRST & SECOND FLOOR, TEMPORARY AND ALTERNATES
  - **REVISE** Frame type to M6 for doors G100, G100.1, G100.2 & G100.3
  - **REVISE** Frame type to M1 for doors G100.4, G100.5, G100.6 & G100.7
- ❑ Sheet A9.01 – PARTIAL CASEWORK PLAN - FIRST FLOOR - AREA A
  - **REVISE** casework on north wall of room A107 as indicated in AD-A04

3. <u>THEATER -AV DRAWINGS</u>

- ❑ Sheet AD-TH01 – NOTE ON THEATER SCOPE
  - See sheet notes indicated in AD-TH01

4. <u>STRUCTURAL DRAWINGS</u>

- ❑ Sheet A2.00 – PROPOSED FOUNDATION AND SLAB ON GRADE PLAN – AREA A

- **REVISE** Top of pier and foundation elevations near column 68-BBB as indicated in AD-S01

- Sheet A2.05 – PROPOSED FOUNDATION AND SLAB ON GRADE PLAN – AREA G
  - **REVISE** Top foundation elevations at screen wall at PSECPD Alternate as indicated in AD-S02

5. MECHANICAL DRAWINGS

- Sheet M3.01 – FIRST FLOOR PLAN – AREA A – MECHANICAL
  - **REVISE** diffuser type in LOBBY A102. See addendum drawing AD-M09.
- Sheet M3.02 – FIRST FLOOR PLAN – AREA B – MECHANICAL
  - **REVISE** diffuser type in CAFETERIA COMMONS B112. See addendum drawing AD-M10.
- Sheet M3.03 – FIRST FLOOR PLAN – AREA C – MECHANICAL
  - **REVISE** CH-2 location. See addendum drawing AD-M06.
  - **ADD** Keynote A34 to all round ductwork in CAFETERIA C101.
  - **ADD** Keynote A67 to ductwork in CU SHOP C118.

    A67 WRAP EXPOSED NON DOUBLE WALLED DUCTWORK AND INSULATION IN CANVAS AND PAINT.
- Sheet M3.04 – FIRST FLOOR PLAN – AREA D – MECHANICAL
  - **REMOVE** Keynote A14 from SCIENCE LAB 9 D133.
- Sheet M3.06 – FIRST FLOOR PLAN – AREA F – MECHANICAL
  - **ADD** Keynote A67 to ductwork in LAUNDRY F107.
  - **REMOVE** Keynote A14 from SCIENCE LAB 9 D133.
  - **REMOVE** Keynote A14 from SCIENCE LAB 10 D134.
  - **REVISE** Keynote A47. **ADD** the following statement:

    COORDINATE ACCESS DOOR LOCATION WITH WASHER/DRYER DISCONNECTS. REFER TO ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.
- Sheet M3.07 – FIRST FLOOR PLAN – AREA G – MECHANICAL
  - **REMOVE** Keynote 34. Use Keynote A34 in lieu of Keynote 34.
  - **REMOVE** Keynote 35. Use Keynote A35 in lieu of Keynote 35.
  - **REMOVE** 2,250 CFM callout from R-17 sidewall grille in MAIN GYM G100.
- Sheet M3.08 – FIRST FLOOR PLAN – AREA H – MECHANICAL
  - **ADD** FC-06 Equipment Tag to fan coil in SECURITY H134.
  - **ADD** Keynote A34 to round ductwork in STAGE/WINGS H131.
  - **ADD** Keynote A67 to ductwork in ST H127.
  - **ADD** Keynote A67 to ductwork in WORKSHOP H128.
  - **REVISE** FC-06 location in CORRIDOR H101. See addendum drawing AD-M11.

- **REVISE** R-1 airflow in P1 H105A. R-1 shall be balanced to 75 CFM in lieu of 100 CFM.

- ❑ Sheet M3.10 – SECOND FLOOR PLAN – AREA B & C – MECHANICAL
  - **REVISE** IDF B210 AC-1 refrigerant pipe route. See addendum drawing AD-M07.
- ❑ Sheet M3.20 – OVERALL ROOF PLAN – MECHANICAL
  - **REVISE** IDF B210 CU-1 location. See addendum drawing AD-M07.
- ❑ Sheet M4.02 – ENLARGED BOILER ROOM PLAN – MECHANICAL
  - **ADD** Emergency Boiler Shut-Off Switches. See addendum drawing AD-M01.
  - **ADD** EF-11 3-hr timer switch. See addendum drawing AD-M01.
- ❑ Sheet M4.06 – ENLARGED PLANS – MECHANICAL
  - **ADD** Duct-Mounted Smoke Detectors. See addendum drawing AD-M02.
- ❑ Sheet M4.07 – ENLARGED PLANS – MECHANICAL
  - **ADD** Duct-Mounted Smoke Detectors. See addendum drawing AD-M03.
- ❑ Sheet M4.08 – ENLARGED PLANS – MECHANICAL
  - **ADD** Duct-Mounted Smoke Detector. See addendum drawing AD-M04.
  - **ADD** VFD-R3 to ENLARGED PENTHOUSE #6 – MECHANICAL. See addendum drawing AD-M04.
  - **REVISE** TCP location in ENLARGED PENTHOUSE #6 – MECHANICAL. See addendum drawing AD-M04.
  - **ADD** TCP to ENLARGED AUDITORIUM MECHANICAL ROOM #1 – MECHANICAL. See addendum drawing AD-M04.
- ❑ Sheet M4.09 – ENLARGED PLANS – MECHANICAL
  - **ADD** Duct-Mounted Smoke Detectors. See addendum drawing AD-M05.
  - **REVISE** VFD-A1, R1 locations in ENLARGED PENTHOUSE #7 – MECHANICAL. See addendum drawing AD-M05.
  - **REVISE** VFD-R2, A2B, A2A, and AHU-2 TCP locations in ENLARGED PENTHOUSE #7 – MECHANICAL. See addendum drawing AD-M05.
- ❑ Sheet M5.02 – MECHANICAL PIPING SCHEMATICS
  - **REVISE** PRIMARY HOT WATER PIPING SCHEMATIC. See addendum drawing AD-M08.
- ❑ Sheet M6.05 – TEMPERATURE CONTROLS SCHEMATICS
  - **REVISE** BOILER ROOM EXHAUST CONTROL SEQUENCE, 2.B:

    IF THE **3-HR** TIMER SWITCH IS INDEXED TO “ON”, THE GENERAL OA DAMPER SHALL PROVE OPEN, AND GENERAL EXHAUST FAN EF-11 SHALL START.
  - **REVISE** BOILER ROOM EXHAUST CONTROL SEQUENCE, 3.:

    PROVIDE AND INSTALL THE SPECIFIED REFRIGERANT MONITORING SYSTEM FOR THE BOILER ROOM. UPON ALARM ACTIVATION, THE BOILER ROOMS GENERAL EXHAUST FAN EF-11 SHALL START, EMERGENCY FAN EF-12 SHALL START, GENERAL OA INTAKE LOUVER DAMPER SHALL OPEN, EMERGENCY OA INTAKE LOUVER DAMPER SHALL OPEN, THE STROBE HORN ACTIVATED AND AN ALARM ACTIVATED AT THE BAS. UPON CORRECTION OF THE PROBLEM, THE SYSTEM SHALL BE RESET AND RETURN TO NORMAL OPERATION.

- Sheet M6.08 – TEMPERATURE CONTROLS SCHEMATICS
  - **REVISE** RA CFM graphic. Use RELIEF CFM in lieu of RA CFM.
- Sheet M6.09 – TEMPERATURE CONTROLS SCHEMATICS
  - **REVISE** Relief Air AFMS location on schematic. See addendum drawing AD-M12.
  - **REVISE** RA CFM graphic. Use RELIEF CFM in lieu of RA CFM. See addendum drawing AD-M12.
  - **ADD** AFMS tag to OA AFMS on MULTIZONE AIR HANDLING UNITS Controls Schematic. See addendum drawing AD-M12.
- Sheet M7.01 – MECHANICAL SCHEDULES
  - **REVISE** P-3A/B/C IMPELLER DIAMETER to 10.375 on the HYDRONIC PUMP SCHEDULE.
  - **REVISE** P-3A/B/C SUCTION DIFFUSER to FE-3X 5”X4” on the HYDRONIC PUMP SCHEDULE.
  - **ADD** VFD-R3 to the VARIABLE FREQUENCY DRIVE SCHEDULE:

    VFD-R3, ABB, ACH580, SERVICE – RF-3, 1 HP, 460 V, 3 Ph, 60 Hz, FUSED DISCONNECT – YES, ENCLOSURE – NEMA-12, REMARKS – ALL.
- Sheet M7.02 – MECHANICAL SCHEDULES
  - **ADD** the following Remark to the AIR HANDLING UNIT SCHEDULE:

    12. PROVIDE WITH FOUR (4) SETS OF FILTERS. REFER TO SPECIFICATION SECTION 200100.
- Sheet M7.03 – MECHANICAL SCHEDULES
  - **ADD** the following Remarks to the DEDICATED OUTDOOR AIR SYSTEM SCHEDULE:

    11. PROVIDE FACTORY MOUNTED AND WIRED VARIABLE FREQUENCY DRIVE (VFD) FOR ENERGY RECOVERY WHEEL. PROVIDE WITH SINGLE POINT POWER CONNECTION. POWER BETWEEN VFD AND WHEEL MOTOR SHALL BE BY MANUFACTURER.

    12. PROVIDE WITH THREE (3) SETS OF FILTERS. REFER TO SPECIFICATION SECTION 200100.
  - **REVISE** the following Remarks to the DEDICATED OUTDOOR AIR SYSTEM SCHEDULE:

    4. PROVIDE WITH HIGH EFFICIENCY INVERTER RATED SUPPLY **AND EXHAUST** FAN MOTORS. REFER TO SPECIFICATION SECTION 250100 FOR MORE DETAIL.

    5. THE TOTAL STATIC PRESSURE OF THE SUPPLY **AND EXHAUST** AIR FANS SHALL INCLUDE THE FOLLOWING: (A) THE LISTED ESP ON THE ABOVE SCHEDULE, (B) DIRTY FILTER ALLOWANCE OF 1.0” WG FOR PRE-FILTER AND (C) ACTUAL PRESSURE DROPS OF UNIT CONFIGURATION (COILS, MIXING DAMPERS, ETC.).
- Sheet M7.04 – MECHANICAL SCHEDULES
  - **ADD** the following Remark to the CABINET HEATER SCHEDULE:

    10. PROVIDE WITH SINGLE POINT POWER CONNECTION.
  - **REVISE** EF-2 PHASE to 1 on the EXHAUST FAN SCHEDULE.
  - **REVISE** EF-6 PHASE to 1 on the EXHAUST FAN SCHEDULE.

- **REVISE** EF-12 FAN HP to 0.5 on the EXHAUST FAN SCHEDULE.

- ❑ Sheet M7.05 – MECHANICAL SCHEDULES
  - **ADD** S-15 to the REGISTERS, GRILLES, AND DIFFUSERS SCHEDULE:

    S-15, TITUS ML-38, PLENUM LINEAR SLOT DIFFUSER – 3 SLOT – 3/4" SPACING, GRILLE SIZE – 48”X6”, PANEL SIZE – 48”X5” PLENUM, DUCT INLET SIZE – 8”Ø, MAX CFM – 125, MAX P.D. – 0.05, NOISE CRITERIA – 20, THROW PATTERN – 2-WAY, REMARKS – 1, 5, 10, 11.
  - **ADD** S-16 to the REGISTERS, GRILLES, AND DIFFUSERS SCHEDULE:

    S-16, TITUS ML-38, PLENUM LINEAR SLOT DIFFUSER – 3 SLOT – 3/4" SPACING. GRILLE SIZE – 96”X6”, PANEL SIZE – 60”X5” PLENUM, DUCT INLET SIZE – 8”Ø, MAX CFM – 150, MAX P.D. – 0.05, NOISE CRITERIA – 20, THROW PATTERN – 2-WAY, REMARKS – 1, 5, 10, 11.
  - **ADD** the following Remarks to the REGISTERS, GRILLES, AND DIFFUSERS SCHEDULE:

    10. PROVIDE WITH FACTORY INSULATED SUPPLY PLENUM WITH INLET NECK SIZE LISTED. MINIMUM PLENUM HEIGHT 8” TALL OFF THE TOP OF THE DIFFUSER. PROVIDE BLANK OFF PANELS AS REQUIRED WHERE LINEAR SLOT IS NOT USED.

    11. COLOR/FINISH TO BE SELECTED BY ARCHITECT.

6. PLUMBING DRAWIGS

- ❑ None

7. FIRE PROTECTION DRAWINGS

- ❑ None

8. ELECTRICAL DRAWINGS

- ❑ Sheet E2.03 – First Floor Plan – Area C – Lighting
  - 1/E2.03 – First Floor Plan – Area C – Lighting
    - **REVISE** – Dark Room C122 shall be controlled with low voltage switch (LV2) in lieu of two (2) general purpose switches. Type ‘A2’ shall be zone ‘a’ and type ‘CA’ shall be zone ‘b’. Refer to Stand-Alone Lighting Control Details for additional requirements. Type ‘A2’ shall be on general emergency circuited. Intercept and extend emergency circuit serving Photo Studio C124 for power.

- ❑ Sheet E2.04 – First Floor Plan – Area D – Lighting
  - 1/E2.04 - First Floor Plan – Area D – Lighting
    - **ADD** Emergency relay to Science Lab 5 D124. Make connection to normal and emergency power serving space.
    - **ADD** Two zone low-voltage dimming switch adjacent to second door in Science Lab 5 D124.
    - **ADD** Emergency relay to Science Lab 6 D125. Make connection to normal and emergency power serving space.

- **ADD** Two zone low-voltage dimming switch adjacent to second door in Science Lab 6 D125.
- **ADD** Emergency relay to Science Lab 7 D126. Make connection to normal and emergency power serving space.
- **ADD** Two zone low-voltage dimming switch adjacent to second door in Science Lab 7 D126.
- **ADD** Emergency relay to Science Lab 8 D127. Make connection to normal and emergency power serving space.
- **ADD** Two zone low-voltage dimming switch adjacent to second door in Science Lab 8 D127.
- **ADD** Emergency relay to Sci Prep D129. Make connection to normal and emergency power serving space.
- **ADD** Emergency relay to Science Lab 9 D133. Make connection to normal and emergency power serving space.
- **ADD** Two zone low-voltage dimming switch adjacent to second door in Science Lab 9 D133.
- **ADD** Emergency relay to Science Lab 10 D134. Make connection to normal and emergency power serving space.
- **ADD** Two zone low-voltage dimming switch adjacent to second door in Science Lab 10 D134.
- **ADD** Emergency relay to Science Lab 1 D115. Make connection to normal and emergency power serving space.
- **ADD** Two zone low-voltage dimming switch adjacent to second door in Science Lab 1 D115.
- **REVISE** Emergency fixtures in Science Lab 1 D115 to be changed to life safety and tied to circuit LSH1D-7.
- **ADD** Emergency relay to Science Lab 2 D116. Make connection to normal and emergency power serving space.
- **ADD** Two zone low-voltage dimming switch adjacent to second door in Science Lab 2 D116.
- **REVISE** Emergency fixtures in Science Lab 2 D116 to be changed to life safety and tied to circuit LSH1D-7.
- **ADD** Emergency relay to Science Plan D119. Make connection to normal and life safety power serving space.
- **REVISE** Emergency fixtures in Science Plan D119 to be changed to life safety and tied to circuit LSH1D-7.
- **ADD** Emergency relay to Science Lab 3 D120. Make connection to normal and life safety power serving space.
- **ADD** Two zone low-voltage dimming switch adjacent to second door in Science Lab 3 D120.
- **REVISE** Emergency fixtures in Science Lab 3 D120 to be changed to life safety and tied to circuit LSH1D-7.
- **ADD** Emergency relay to Science Lab 4 D121. Make connection to normal and life safety power serving space.
- **ADD** Two zone low-voltage dimming switch adjacent to second door in Science Lab 4 D121.
- **REVISE** Emergency fixtures in Science Lab 4 D121 to be changed to life safety and tied to circuit LSH1D-7.
- **ADD** Emergency relay in Boys D109. Make connection to normal and life safety power serving space.
- **ADD** Emergency relay in Classroom D112. Make connection to normal and life safety power serving space.
- **ADD** Emergency relay in Classroom D113. Make connection to normal and life safety power serving space.

- **ADD** Emergency relay in Classroom D114. Make connection to normal and life safety power serving space.

- Sheet E2.05 – First Floor Plan – Area E & F – Lighting

  - 1/E2.03 – First Floor Plan – Area E – Lighting
    - **REVISE** – T12 E102 move low voltage switch closer to door.
    - **REVISE** – A.L.S. Storage E102A rotate low voltage switch to mount on wall adjacent to door.
    - **ADD** Emergency relay in ALS Resource E104. Make connection to normal emergency power serving space.
    - **ADD** Emergency relay in Science Lab D115. Make connection to normal and emergency power serving space.
    - **ADD** Emergency relay in Health Education E117. Make connection to normal and emergency power serving space.
    - **REVISE** – Health Education E117 shall be controlled with one low voltage switch in lieu of two. Provide power connections to TDD and provide TD controller. Intercept and extend power as required from other light fixtures in the room for complete system. Coordinate final requirements with manufacturer.
    - **ADD** – Provide Vacancy Sensor switch and type 'H' light fixture in closet adjacent to Storage E106. Intercept and extend lighting branch circuit power from Storage E105 to provide power to closet.
    - **ADD** Emergency relay in CTE Engineering/Technology E105. Make connection to normal and emergency power serving space.
    - **ADD** Emergency relay in Fabrication Lab E106. Make connection to normal and emergency power serving space.
    - **ADD** Emergency relay in CTE Engineering/Technology E113. Make connection to normal and emergency power serving space.
    - **ADD** Emergency relay in CTE Engineering/Technology E110. Make connection to normal and emergency power serving space.
    - **ADD** – CU 5 E119 intercept and extend general emergency branch lighting circuit from T13 E120 to provide power to lights. Provide Occupancy sensor switch for controlling lights.
    - ADD – CTE Seminar E122 intercept and extend normal power branch lighting circuit from CTE Career Academy E125 to provide power to lights. Provide Occupancy sensor switch for controlling lights.
    - **ADD** Emergency relay in CTE Engineering/Technology E124. Make connection to normal and emergency power serving space. Provide additional Low voltage switch (LV2) near door into CTE Plan E126.
    - **ADD** Emergency relay in CTE Engineering/Technology E127. Make connection to normal and emergency power serving space. Provide additional Low voltage switch (LV2) near door into CTE Plan E126.
    - **ADD** Emergency relay in CTE Engineering/Technology E105. Make connection to normal and emergency power serving space.

  - 2/E2.03 – First Floor Plan – Area F – Lighting
    - **REVISE** – Low Voltage Switch (LV) shall be relocated to be near door.
    - **ADD** Emergency relay in CTE Career Academy F105. Make connection to normal and emergency power serving space.
    - **ADD** Emergency relay in Training F109. Make connection to normal and emergency power serving space.
    - **ADD** Emergency relay in Boys F116. Make connection to normal and emergency power serving space.
    - **ADD** Emergency relay in Girls F113. Make connection to normal and emergency power serving space.

- **ADD** Emergency relay in CTE Career Academy F101. Make connection to normal and emergency power serving space.

- Sheet E2.06 – First Floor Plan – Area G – Lighting

  - 1/E2.03 – First Floor Plan – Area G – Lighting
    - **ADD** Emergency relay in CTE FACS G127. Make connection to normal and emergency power serving space. Move low voltage switch next to door.
    - **REVISE** – Storage Room G127A move low voltage light switch next to door.
    - **ADD** Emergency relay in CTE TAM G128. Make connection to normal emergency power serving space.
    - **ADD** Emergency relay in Classroom G131. Make connection to normal and li emergency power serving space. Provide additional 'A3' light fixture on normal power, space fixture evenly with other light fixtures.
    - **REVISE** – Admin Office G134 move low voltage switch to beside door.
    - **ADD** Emergency relay in Classroom G135. Make connection to normal and emergency power serving space. Provide additional 'A3' light fixture on normal power, space fixture evenly with other light fixtures.
    - **ADD** – Weight Training G114 provide additional low voltage next to exterior door. Provide polycarbonate covers for light switches and exit signs.
    - **ADD** – Wrestling Room G113 provide additional low voltage next to exterior door. Provide polycarbonate covers for light switches and exit signs.
    - **ADD** – Aux Gym G113 provide three low voltage next to exterior doors and entrance from corridor door. Provide polycarbonate covers for light switches and exit signs.
    - **ADD/REVISE** – Provide two additional exit signs to Main Gym for door on plan north of gym. All exit signs shall have Wire Guards and be "X3". Lights on circuit EH1F-2 shall be circuited to panelboard "LSH1D". Provide emergency relays required in gym. Make connection to normal and life safety power serving space.
    - **REVISE** – Downlights over fountains in Corridor G129 shall be type 'C1'.
    - **REVISE** – All exit signs in boys and girls locker room areas shall be X3.
    - **ADD** – Provide additional ceiling mounted occupancy sensor in Girls RR G124. Evenly space occupancy sensors for complete coverage.
    - **ADD** Emergency relay in CTE Career Academy F101. Make connection to normal and emergency power serving space.
    - **ADD** Emergency relay in Corridor G121A. Make connection to normal and emergency power serving space.
    - **ADD** Vacancy Sensor for controls in Team 6 G126.
    - **ADD** Emergency relay in Girls Locker G121. Make connection to normal and emergency power serving space.
    - **REVISE** – Shower G122 shall be controlled by ceiling mounted occupancy sensor. Occupancy sensor shall be water proof. Remove keyed switch.
    - **ADD** – Provide additional ceiling mounted occupancy sensor in girls locker room restroom. Space evenly for complete coverage.
    - **ADD** – Provide additional ceiling mounted occupancy sensor in Boys RR G101. Evenly space occupancy sensors for complete coverage. Move keyed light switch next to door.
    - **ADD** Emergency relay in Corridor G103A. Make connection to normal and emergency power serving space.
    - **ADD** Vacancy Sensor for controls in Team 6 G126.
    - **ADD** Emergency relay in Boys Locker G103. Make connection to normal and emergency power serving space.
    - **REVISE** – Shower G105 shall be controlled by ceiling mounted occupancy sensor. Occupancy sensor shall be water proof. Remove keyed switch.

- **ADD** – Provide additional ceiling mounted occupancy sensor in boys locker room restroom G104. Space evenly for complete coverage.
- **REVISE** – Move keyed switch next to door.
- **REVISE** – Emergency circuits feeding light fixtures in girls and boys locker room shall be fed from “LSH1D”.

- Sheet E3.01 – First Floor Plan – Area A – Power

  - 1/E3.01 – First Floor Plan – Area A – Power
    - **REVISE** – FVAV shall be circuited to panel NH1A in lieu of panelboard ML1A.
    - **DELETE** – Two (2) FP-A not located in the center of room Career Center A145 shall be omitted.

- Sheet E3.02 – First Floor Plan – Area B – Power

  - 1/E3.02 – First Floor Plan – Area B – Power
    - **REVISE** – Duplex receptacle located in Health Waiting Room B101 on wall adjacent to plan west wall of room T5 B109 shall be a quadruplex receptacle.

- Sheet E3.03 – First Floor Plan – Area C – Power

  - 1/E3.03 – First Floor Plan – Area C – Power
    - **REVISE** – Motor rated snap switch located in Stair 3 C100 shall be relocated closer to exterior double doors on plan west wall and serve CH-2. Provide connections for CH-2 coordinate all requirements with mechanical contractor prior to construction.
    - **REVISE** – Tag note E4 used for disconnects on AHU-12A and AHU-12B shall be tag note E11. E11 shall read, “Provide 30A/250V/3P fusible disconnect switch in NEMA-1 enclosure fused as equipment nameplate rating. Coordinate exact location with all trades prior to rough-in. Provide framing for mounting as indicated. Contractor shall ensure 3'-0" clearance in front of switch with 30" wide clear walking path to equipment.”
    - **ADD** – Provide electrical connections to AMS-E2 located in Corridor C115. Provide 20A/120V motor rated snap switch and route three (3) #12 conductors to 20A/1P breaker in panelboard “ML1C”. Coordinate all requirements with mechanical contractor prior to construction.

- Sheet E3.04 – First Floor Plan – Area D – Power

  - 1/E3.04 – First Floor Plan – Area D – Power
    - **DELETE** – Fume hood connections and associated devices in Science Labs 1, 2, 3, and 4 shall be omitted.
    - **REVISE** – FC-14 located in Art Studio D100 shall be circuited to panelboard “ML1D”.
    - **REVISE** – FC-10 located in Sculpture D101 shall be circuited to panelboard “ML1D”.
    - **REVISE** – FC-14 located in Science Lab 4 D121 shall be circuited to panelboard “ML1D”.
    - **REVISE** – FC-16 located in Science Lab 3 D120 shall be circuited to panelboard “ML1D”.
    - **REVISE** – FC-16 located in Science Lab 5 D124 shall be circuited to panelboard “ML1D”.
    - **REVISE** – FC-16 located in Science Lab 6 D125 shall be circuited to panelboard “ML1D”.

- **REVISE** – FC-16 located in Science Lab 7 D126 shall be circuited to panelboard "ML1D".
- **REVISE** – FC-16 located in Science Lab 8 D127 shall be circuited to panelboard "ML1D".
- **REVISE** – Fume Hoods located in Science Labs 7, 8, 9, and 10 and Science Prep D129 shall be circuited to panelboard "ML1D" in lieu of NL1D.
- **REVISE** – FC-12 located in Science Prep D129 shall be circuited to panelboard "ML1D".
- **REVISE** – FC-06 located in SEM 2 D130 shall be circuited to panelboard "ML1D".
- **REVISE** – FC-16 located in Science Lab 9 D133 shall be circuited to panelboard "ML1D".
- **REVISE** – FC-16 located in Science Lab 10 D134 shall be circuited to panelboard "ML1D".

- Sheet E3.05 – First Floor Plan – Area E & F – Power

  - 1/E3.05 – First Floor Plan – Area F – Power
    - **REVISE** – FC-10 located in A.L.S. Resource E104 shall be circuited to panelboard "NL1E". Branch circuit shall have #10 awg conductors in lieu of #12.
    - **REVISE** – FC-14 located in Classroom E101 shall be circuited to panelboard "NL1E". Branch circuit shall have #10 awg conductors in lieu of #12.
    - **REVISE** – Circuit NL1E-112 feeding AF-1 shall be fed with #10 conductors in lieu of #12.
    - **REVISE** – Circuit NL1E-111 feeding FC-16 shall be fed with #8h conductors in lieu of #12.

  - 2/E3.05 – First Floor Plan – Area E – Power
    - **REVISE** – Electrical panelboard in Electrical Closet F106A shall be recessed in lieu of surface mounted.
    - **REVISE** – FC-16 located in CTE Career Academy F101 shall be circuited to panelboard "ML1D". Branch circuit shall have #10 awg conductors in lieu of #12.
    - **REVISE** – FC-06 located in CTE Career Seminar F102 shall be circuited to panelboard "ML1D".
    - **REVISE** – FC-06 located in CTE Plan F104 shall be circuited to panelboard "ML1D".
    - **REVISE** – FC-16 located in CTE Career Academy F105 shall be circuited to panelboard "ML1D". Branch circuit shall have #10 awg conductors in lieu of #12.
    - **ADD** – Provide connections for smoke damper above ceiling near Laundry F107. Route three (3) #12 conductors in 3/4" conduit to smoke dampers near T14 F115 for power. Refer to Smoke Damper Diagram detail for additional information. Coordinate location and all requirements prior to construction.
    - **REVISE** – FC-12 located in Corridor F112 shall be circuited to panelboard "ML1D". Branch circuit shall have #10 awg conductors in lieu of #12.
    - **REVISE** – FC-06 located in Training F109 shall be circuited to panelboard "ML1D".
    - **REVISE** – UH-2 located in P.E. Storage F117 shall be circuited to panelboard "ML1D". Branch circuit shall have #10 awg conductors in lieu of #12.
    - **REVISE** – UH-2 located in Outdoor Storage F118 shall be circuited to panelboard "ML1D". Branch circuit shall have #10 awg conductors in lieu of #12.
    - **ADD -** Provide electrical connections to RP-2 located in Girls RR F113. Provide 20A/120V motor rated snap switch and route three (3) #10 conductors to 20A/1P breaker in panelboard "ML1D". Coordinate all requirements with mechanical contractor prior to construction.
    - **ADD -** Provide electrical connections to RP-2 located in Boys RR F116. Provide 20A/120V motor rated snap switch and route three (3) #10 conductors to 20A/1P

breaker in panelboard “ML1D”. Coordinate all requirements with mechanical contractor prior to construction.

- Sheet E3.06 – First Floor Plan – Area G – Power
  - 1/E3.06 – First Floor Plan – Area G – Power
    - **ADD** – All range hoods located in CTE FACS G127 shall be provided with motor rated snap switch for local disconnecting means. Coordinate all requirements with mechanical contractor prior to construction.
    - **REVISE** – Circuit NL1G-61 serving FC-18 in room G127 shall be fed with #10 awg conductors in lieu of #12.
- Sheet E3.07 – First Floor Plan – Area H – Power
  - 1/E3.07 – First Floor Plan – Area H – Power
    - **REVISE** – All existing electrical loads located in the Dance Studio H113 shall be interpreted and extended to new electrical panelboards located in Storage H123.
- Sheet E3.11 – Second Floor Plan – Area A, B, & C – Power
  - 1/E3.11 – Second Floor Plan – Area A– Power
    - **REVISE** – Motor rated snap switches located in all classrooms are to be utilized for HVAC equipment. Coordinate exact requirements with mechanical contractor prior to construction.
  - 2/E3.11 – Second Floor Plan – Area B & C – Power
    - **ADD -** Provide electrical connections to RP-1 located in Girls RR B202. Provide 20A/120V motor rated snap switch and route three (3) #10 conductors to 20A/1P breaker in panelboard “ML2”. Coordinate all requirements with mechanical contractor prior to construction.
    - **ADD -** Provide electrical connections to RP-1 located in Boys RR B205. Provide 20A/120V motor rated snap switch and route three (3) #10 conductors to 20A/1P breaker in panelboard “ML2”. Coordinate all requirements with mechanical contractor prior to construction.
    - **ADD** – Route three (3) #10 conductors in 3/4" conduit to 20A/1P breaker in panelboard “NL2B” to provide power to FP-As (4 total) in Teacher Planning 3 C204.
    - **ADD** – Route three (3) #10 conductors in 3/4" conduit to 20A/1P breaker in panelboard “NL2B” to provide power to FP-As (3 total) in Teacher Planning 2 C203.
    - **REVISE** – FP-A located in Seminar C202 shall be located in center of conference table.
    - **ADD** Call station outside elevator B206. Coordinate all requirements with Two-Way Area of Rescue Communication Detail on sheet E7.06. Route three (3) #10 conductors to 20A/1P breaker in panelboard “ELSP7”
- Sheet E4.07 – First Floor Plan – Area H - Systems
  - 1/E4.07 – First Floor Plan – Area H - Systems
    - **ADD** – Provide three two (2V) data drops along plan west wall in Electronics Lab H100 evenly spaced along working desks.
    - **ADD** – Provide two two (2V) data drops along plan south wall in Electronics Lab H100 evenly spaced along working desks.
    - **ADD** – Provide five two (2V) data drops along plan east wall in Electronics Lab H100 evenly spaced along working desks.

- Sheet E6.02 – Enlarged Plan Main Elec, Main Mech and MDF Rooms – Elec
  - 3/E6.02 – Enlarged Penthouse #8 – Electrical
    - **ADD** - AHU-9 has two points of electrical connections in lieu of one. Provide additional connection to unit. Route four (4) #12 conductors and one (1) #12 ground in 3/4" conduit to 15A/3P breaker in panelboard "NHP8A". Route conduit and wire from unit to VFD and VFD to panelboard. Coordinate exact requirements with mechanical contractor and drawings prior to construction to provide complete system.
    - **REVISE** - Circuit NHP8A-1,3,5 shall be fed from a 15A/3P breaker in lieu of 20A/3P.
    - **REVISE** - Circuit NHP8A-2,4,6 shall be fed from a 15A/3P breaker in lieu of 20A/3P.
    - **REVISE** - Circuit NHP8A-7,9,11 shall be fed from a 15A/3P breaker in lieu of 20A/3P.
    - **REVISE** - Circuit NHP8A-8,10,12 shall be fed from a 15A/3P breaker in lieu of 20A/3P.
    - **REVISE** - Circuit NHP8A-13,15,17 shall be fed from a 15A/3P breaker in lieu of 20A/3P.
    - **REVISE** - Circuit NHP8A-14,16,18 shall be fed from a 15A/3P breaker in lieu of 20lA/3P.
  - 4/E6.02 – Enlarged Mechanical Room C113 and Mechanical yard – Electrical
    - **ADD** - Provide 400A/277/480V/3PH/4W/M.L.O power panel. Panel shall be 42 poles with minimum rating 22Kaic, Square "D", NF or equal. Route two (2) parallel runs of four (4) #3/0 conductor and one (1) #3 ground in 2-1/2" conduit to main switchboard "MSB". Mount panelboard to the plan west of panelboard "NH1C".
    - **ADD** - CT-1 and CT-2 shall have connections for integral heater. Electrical contractor shall route five (5) #10 conductors in 3/4" conduit to 20A/1P breaker to panelboard "MH1C" for each cooling tower. Provide 30A/600V/3P fusible disconnect switch in NEMA-3R enclosure fused at equipment nameplate rating for each cooling tower. Coordinate exact location with all trades prior to rough-in. Provide unistrut framing for mounting as required for mounting. Contractor shall ensure 3'-0" clearance in front of switch with 30" wide clear walking path to equipment.
    - **REVISE** - CT-1 and CT-2 shall be circuited to panelboard MH1C in lieu of panelboard EMH1C. CT-1 and CT-2 and P2B/VFD-P2B shall be feed from 60A/3P breaker in lieu of 35A/3P. Branch circuit conductors shall be four (4) #6 conductors and one (1) #10 ground in 1" conduit for each Cooling Tower and VFD coordinate all requirements with mechanical contractor prior to construction.
    - **REVISE** - P2A/VFD-P2A and P2B/VFD-P2B shall be circuited to panelboard MH1C in lieu of panelboard EMH1C. P2A/VFD-P2A and P2B/VFD-P2B shall be feed from 60A/3P breaker in lieu of 35A/3P. Branch circuit conductors shall be four (4) #6 conductors and one (1) #10 ground in 1" conduit for each Pump and VFD coordinate all requirements with mechanical contractor prior to construction.
    - **REVISE** – C-1 and C-2 shall be circuited to main switchboard "MSB" in lieu of panelboard EMH1C. C-1 and C-2 shall be feed from 450A/3P breaker in lieu of 400A/3P. Branch circuit conductors shall two (2) parallel runs of four (4) #4/0 conductor and one (1) #2 ground in 2-1/2" conduit for each chiller control panel coordinate all requirements with mechanical contractor prior to construction.
    - **REVISE** – P1A/VFD-P1A and P1B/VFD-P1B shall be circuited to panelboard MH1C in lieu of panelboard EMH1C. P1A/VFD-P1A and P1B/VFD-P1B shall be feed from 70A/3P breaker in lieu of 35A/3P.

- **REVISE** – Each boiler, B-1,2, and 3, shall disconnect shall be 30A/600V/3P fusible disconnect switch in nema-3r enclosure fused at equipment nameplate rating. Coordinate exact location with all trades prior to rough-in. Provide unistrut framing for mounting as indicated. Contractor shall ensure 3'-0" clearance in front of switch with 30" wide clear walking path to equipment.
- **REVISE** – P3A/VFD-P3A, P3B/VFD-P3B, and P3C/VFD-P3C shall be feed from 40A/3P breaker in lieu of 30A/3P. Branch circuit conductors shall be four (4) #8 conductors and one (1) #10 ground in 1" conduit for each Pump and VFD coordinate all requirements with mechanical contractor prior to construction.
- **REVISE** – Panelboard EMH1C shall be 42 poles and 200A in lieu of 800A and 96 poles. Route four (4) #3/0 conductors and one (1) #6 ground in 2-1/2" conduit to panelboard "EDEG".

❑ Sheet E6.03 – Temporary Floor Plans – Electrical

○ 3/E6.03 – First Floor Plan – Temporary CTE FACS – Electrical
- **ADD** – FC-08 is located in the storage room directly plan north of Storage Room. Provide 15A/120V/1P motor rated snap switch and route three (3) #12 conductors in 3/4" conduits to nearest 120/208V panelboard. Coordinate all requirements with mechanical contractor and existing conditions prior to construction.

❑ Sheet E6.04 – Roof/Second Floor Plan – Electrical

○ 1/E6.04 – Enlarged Penthouse #7 - Electrical
- **ADD** – Provide connections from OA-1 to VFD-E1. Route four (4) #6 and one (1) #10 in 1" conduit. Coordinate all requirements with mechanical contractor prior to construction.
- **ADD –** Provide connections for OA-1 recovery wheel. Provide 30A/600V/3P soft start combination starter / disconnect switch in a NEMA-3R enclosure with disconnect switch fused at equipment nameplate rating. H.O.A. Selector switch as coordinated with controls contractor. Mount disconnect near VFD's for OA-1. Coordinate exact mounting location and connection requirements with mechanical equipment, piping clearances, etc. prior to rough-in. Route five (5) #12 conductors in 3/4" conduit from recovery wheel to disconnect to 15A/3P breaker in panelboard "NHP7A". Coordinate all requirements with mechanical contractor prior to construction.
- **ADD** – Provide additional duct smoke detector for OA-1. Coordinate exact location of duct smoke detector with mechanical contractor prior to installation.
- **ADD –** Provide connections from AHU-2 to VFD-A2B. Route five (5) #12 conductors in 3/4" conduit to 15A/3P breaker in panelboard "NHP7A". Coordinate all requirements with mechanical contractor prior to construction.
- **REVISE** – Panelboard ELSP7 shall be named "LSP7".
- **REVISE** – Relocate all electrical panelboards (ELP7, LSP7, NHP7A, and NLP7A) to plan north wall near exterior doors. VFDs (VFD-A2A and VFD-A2B) and TCP shall be moved plan west corner to corner of penthouse. Coordinate location of mechanical equipment with mechanical contractor prior to construction.
- **ADD** – Provide electrical connections for vav transformer panels located on plan east wall coordinate location with mechanical drawings. Route three (3) #12 conductors in 3/4" conduit to 20A/1P breaker in panelboard "NLP7A". Coordinate final requirements and location with mechanical contractor prior to construction.

○ 5/E6.03 – Enlarged Penthouse #3 - Electrical
- **ADD** – Provide connections for OA-4 recovery wheel. Provide 30A/600V/3P soft start combination starter / disconnect switch in a NEMA-3R enclosure with disconnect switch fused at equipment nameplate rating. H.O.A. Selector switch as

coordinated with controls contractor. Mount disconnect near VFD's to plan east. Coordinate exact mounting location and connection requirements with mechanical equipment, piping clearances, etc. prior to rough-in. Route five (5) #12 conductors in 3/4" conduit from recovery wheel to disconnect to 15A/3P breaker in panelboard "NHP3A". Coordinate all requirements with mechanical contractor prior to construction.

- **ADD** - Provide additional duct smoke detector for OA-4. Coordinate exact location of duct smoke detector with mechanical contractor prior to installation.
- **ADD** - Provide electrical connections for vav transformer panels located on plan north wall coordinate location with mechanical drawings. Route three (3) #12 conductors in 3/4" conduit to 20A/1P breaker in panelboard "NLP3A". Coordinate final requirements and location with mechanical contractor prior to construction.
- **REVISE –** Circuit NHP3A-1,3,5 shall be fed with 25A/3P in lieu of 20A/3P. Conductors shall be #10 in lieu of #12.

○ 6/E6.03 – Enlarged Penthouse #4 - Electrical

- **ADD** – Provide connections for OA-3 recovery wheel. Provide 30A/600V/3P soft start combination starter / disconnect switch in a NEMA-3R enclosure with disconnect switch fused at equipment nameplate rating. H.O.A. Selector switch as coordinated with controls contractor. Mount disconnect near VFD's to plan south. Coordinate exact mounting location and connection requirements with mechanical equipment, piping clearances, etc. prior to rough-in. Route five (5) #12 conductors in 3/4" conduit from recovery wheel to disconnect to 15A/3P breaker in panelboard "NHP4A". Coordinate all requirements with mechanical contractor prior to construction.
- **ADD** - Provide additional duct smoke detector for OA-3. Coordinate exact location of duct smoke detector with mechanical contractor prior to installation.
- **ADD** - Provide electrical connections for vav transformer panel located on plan east wall coordinate location with mechanical drawings. Route three (3) #12 conductors in 3/4" conduit to 20A/1P breaker in panelboard "NLP4A". Coordinate final requirements and location with mechanical contractor prior to construction.
- **ADD** – Provide electrical connection for TCP. Route three (3) #10 conductors in 3/4" conduit to 20A/1P in panelboard "ELP5".
- **REVISE –** Circuit NHP4A-1,3,5 shall be fed with 25A/3P in lieu of 35A/3P.

○ 7/E6.03 – Enlarged Penthouse #5 - Electrical

- **ADD** – Provide connections for OA-2 recovery wheel. Provide 30A/600V/3P soft start combination starter / disconnect switch in a NEMA-3R enclosure with disconnect switch fused at equipment nameplate rating. H.O.A. Selector switch as coordinated with controls contractor. Mount disconnect near VFD's to plan west. Coordinate exact mounting location and connection requirements with mechanical equipment, piping clearances, etc. prior to rough-in. Route five (5) #12 conductors in 3/4" conduit from recovery wheel to disconnect to 15A/3P breaker in panelboard "NHP5A". Coordinate all requirements with mechanical contractor prior to construction.
- **ADD** - Provide additional duct smoke detector for OA-2. Coordinate exact location of duct smoke detector with mechanical contractor prior to installation.
- **ADD** - Provide electrical connections for vav transformer panel located on plan north wall coordinate location with mechanical drawings. Route three (3) #12 conductors in 3/4" conduit to 20A/1P breaker in panelboard "NLP5A". Coordinate final requirements and location with mechanical contractor prior to construction.
- **REVISE –** Circuit NHP5A-1,3,5 shall be fed with 25A/3P in lieu of 20A/3P. Conductors shall be #10 in lieu of #12.

○ 8/E6.03 – Enlarged Penthouse #6 - Electrical

- **REVISE** – VFD-R3 has been relocated. Coordinate location with mechanical addendums.
- **REVISE** – Electrical panelboards located on plan west wall shall be moved north 8'.
- **REVISE** – Provide disconnect on plan west wall in lieu of mechanical contractor VFD located on plan north wall. Provide 30A/600V/3P fusible disconnect switch in NEMA-1 enclosure fused at equipment nameplate rating. Coordinate exact location with all trades prior to rough-in. Provide unistrut framing for mounting as indicated. Contractor shall ensure 3'-0" clearance in front of switch with 30" wide clear walking path to equipment. Route five (5) #12 conductors in 3/4" conduit to 20A/3P breaker in panelboard "NHP6A". Provide connections for complete system. Coordinate final requirements and location with mechanical contractor prior to construction.
- **REVISE –** Power and data connections for demand control ventilation system sampling panel and vacuum pump move plan west. Coordinate exact location with mechanical drawings prior to construction.
- **ADD** – Provide connections for AHU-4/VFD-A4B for complete operating system. Variable frequency drive shall be provided by mechanical contractor and installed completely by electrical contractor located near VFD-A4A. Coordinate exact location with all trades prior to rough-in. Provide unistrut framing for mounting as indicated. Contractor shall ensure 3'-0" clearance in front of VFD with 30" wide clear walking path to equipment. Contractor shall transition to rigid conduit at 8' above floor. Line side and load side conductors shall be in separate conduits. Route five (5) #12 conductors in 3/4" conduit from recovery wheel to disconnect to 20A/3P breaker in panelboard "NHP6A". Coordinate all requirements with mechanical contractor prior to construction.
- **ADD** - Provide electrical connections for vav transformer panels located near door coordinate location with mechanical drawings. Route three (3) #12 conductors in 3/4" conduit to 20A/1P breaker in panelboard "NLP6A". Coordinate final requirements and location with mechanical contractor prior to construction.
- **ADD** – Provide connections for AHU-5/VFD-A5B for complete operating system. Variable frequency drive shall be provided by mechanical contractor and installed completely by electrical contractor located near VFD-A5A. Coordinate exact location with all trades prior to rough-in. Provide unistrut framing for mounting as indicated. Contractor shall ensure 3'-0" clearance in front of VFD with 30" wide clear walking path to equipment. Contractor shall transition to rigid conduit at 8' above floor. Line side and load side conductors shall be in separate conduits. Route five (5) #12 conductors in 3/4" conduit from recovery wheel to disconnect to 20A/3P breaker in panelboard "NHP6A". Coordinate all requirements with mechanical contractor prior to construction.
- **ADD** – Provide power and data connections for TCP located on plan west wall. Route three (3) #12 conductors in 3/4" conduits to 20A/1P breaker in panelboard "ELP6". Provide two (2) data drops for TCP. Coordinate all requirements with mechanical contractor prior to construction.

- Sheet E6.05 – Roof/Second Floor Plan – Electrical

  - 1/E6.05 – Enlarged Penthouse #1 - Electrical
    - **ADD** - Provide electrical connections for vav transformer panels located near door coordinate location with mechanical drawings. Route three (3) #12 conductors in 3/4" conduit to 20A/1P breaker in panelboard "NLP1A". Coordinate final requirements and location with mechanical contractor prior to construction.
    - **ADD** – Provide connections for OA-5B recovery wheel. Provide 30A/600V/3P soft start combination starter / disconnect switch in a NEMA-3R enclosure with disconnect switch fused at equipment nameplate rating. H.O.A. Selector switch as

coordinated with controls contractor. Mount disconnect near VFD's to plan west. Coordinate exact mounting location and connection requirements with mechanical equipment, piping clearances, etc. prior to rough-in. Route five (5) #12 conductors in 3/4" conduit from recovery wheel to disconnect to 15A/3P breaker in panelboard "NHP1A". Coordinate all requirements with mechanical contractor prior to construction.

- **ADD** - Provide additional duct smoke detector for OA-5B. Coordinate exact location of duct smoke detector with mechanical contractor prior to installation.

- 2/E6.05 – Enlarged Penthouse #2 - Electrical
  - **ADD** - Provide electrical connections for vav transformer panels located near door coordinate location with mechanical drawings. Route three (3) #12 conductors in 3/4" conduit to 20A/1P breaker in panelboard "NLP2A". Coordinate final requirements and location with mechanical contractor prior to construction.
  - **ADD** – Provide connections for OA-5A recovery wheel. Provide 30A/600V/3P soft start combination starter / disconnect switch in a NEMA-3R enclosure with disconnect switch fused at equipment nameplate rating. H.O.A. Selector switch as coordinated with controls contractor. Mount disconnect near VFD's to plan west. Coordinate exact mounting location and connection requirements with mechanical equipment, piping clearances, etc. prior to rough-in. Route five (5) #12 conductors in 3/4" conduit from recovery wheel to disconnect to 15A/3P breaker in panelboard "NHP2A". Coordinate all requirements with mechanical contractor prior to construction.
  - **ADD** - Provide additional duct smoke detector for OA-5B. Coordinate exact location of duct smoke detector with mechanical contractor prior to installation.

- 4/E6.05 – Enlarged Auditorium Mechanical Room - Electrical
  - **ADD** - Provide two (2) duct smoke detector for AHU-6A. Coordinate exact location of duct smoke detector with mechanical contractor prior to installation.
  - **REVISE** – RF-6A unit located on the roof. Coordinate location with mechanical contractor prior to construction.
  - **ADD** - Provide two (2) duct smoke detector for AHU-6B. Coordinate exact location of duct smoke detector with mechanical contractor prior to installation.
  - **REVISE** – RF-6B unit located on the roof. Coordinate location with mechanical contractor prior to construction.

D. ATTACHMENTS

1. ADDENDUM DRAWINGS

- ❑ AD-C01 thru AD-C06
- ❑ AD-A01 thru AD-A06
- ❑ AD-TH01
- ❑ AD-S01 thru AD-S03
- ❑ AD-M01 thru AD-M12

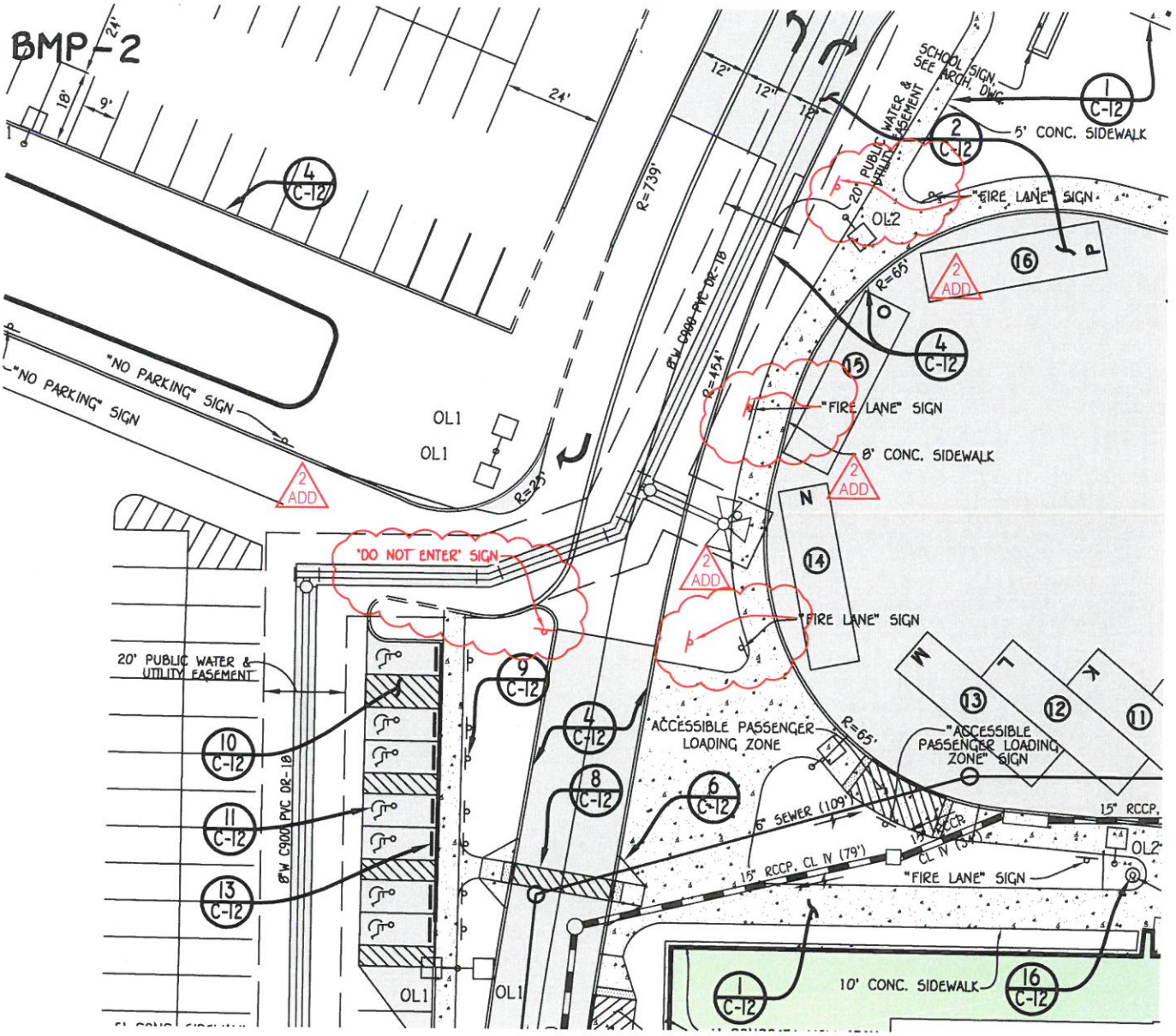
2. ADDENDUM SPECIFICATIONS

- ❑ 07 81 23 – Intumescent Fireproofing

3. OTHER

- ❑ Pre-Bid Meeting Minutes
- ❑ Survey of existing roof composition

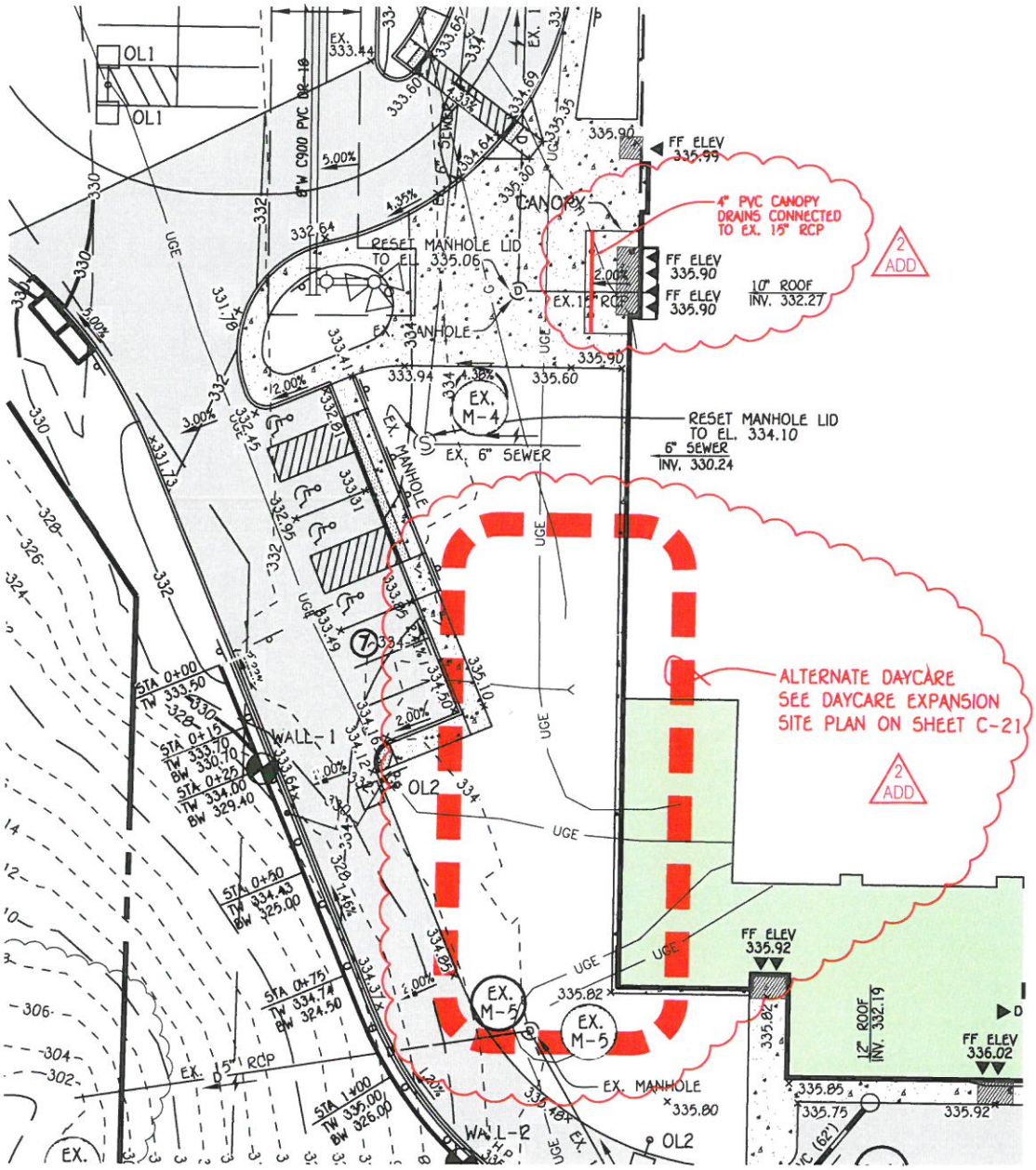
END OF ADDENDUM NO. 2



ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: C-6

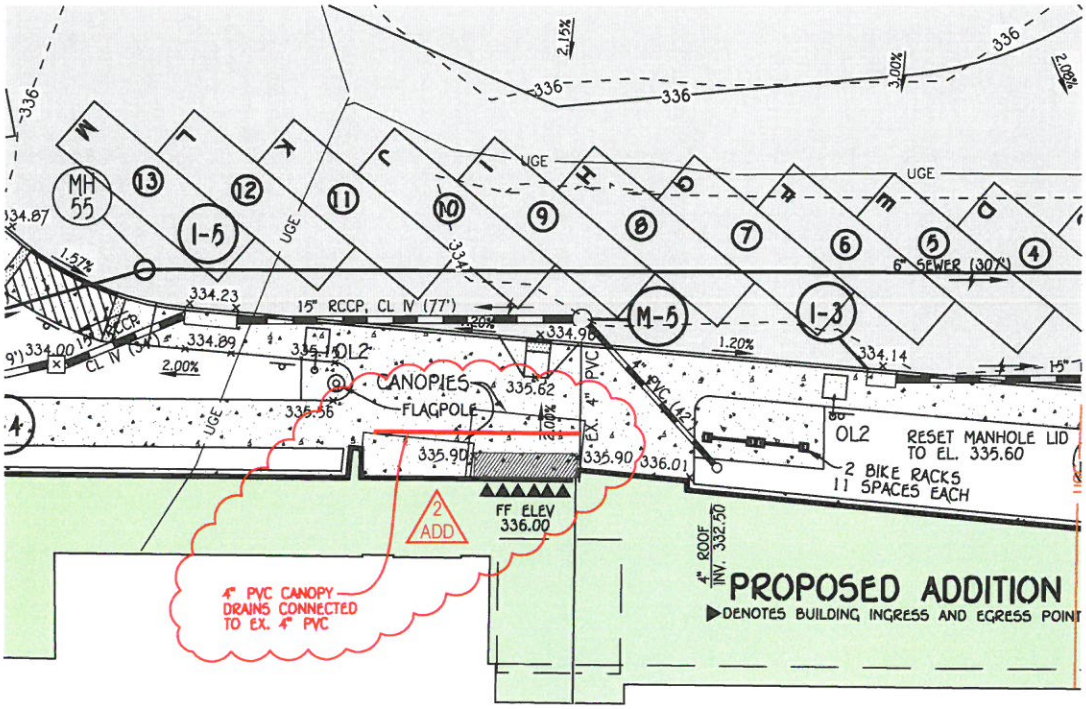
FISHER, COLLINS, CARTER 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21042 410-461-2855(P)	**HAMMOND HIGH SCHOOL RENOVATION AND ADDITION**	SCALE: 1" = 40' ADDENDUM 02 DATE: 3/06/20
	ITEM: ADDITIONAL ROAD SIGN "DO NOT ENTER" SIGN AND RELOCATION OF 3 "FIRE LANE" SIGNS	**AD-C01**



ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: C-4

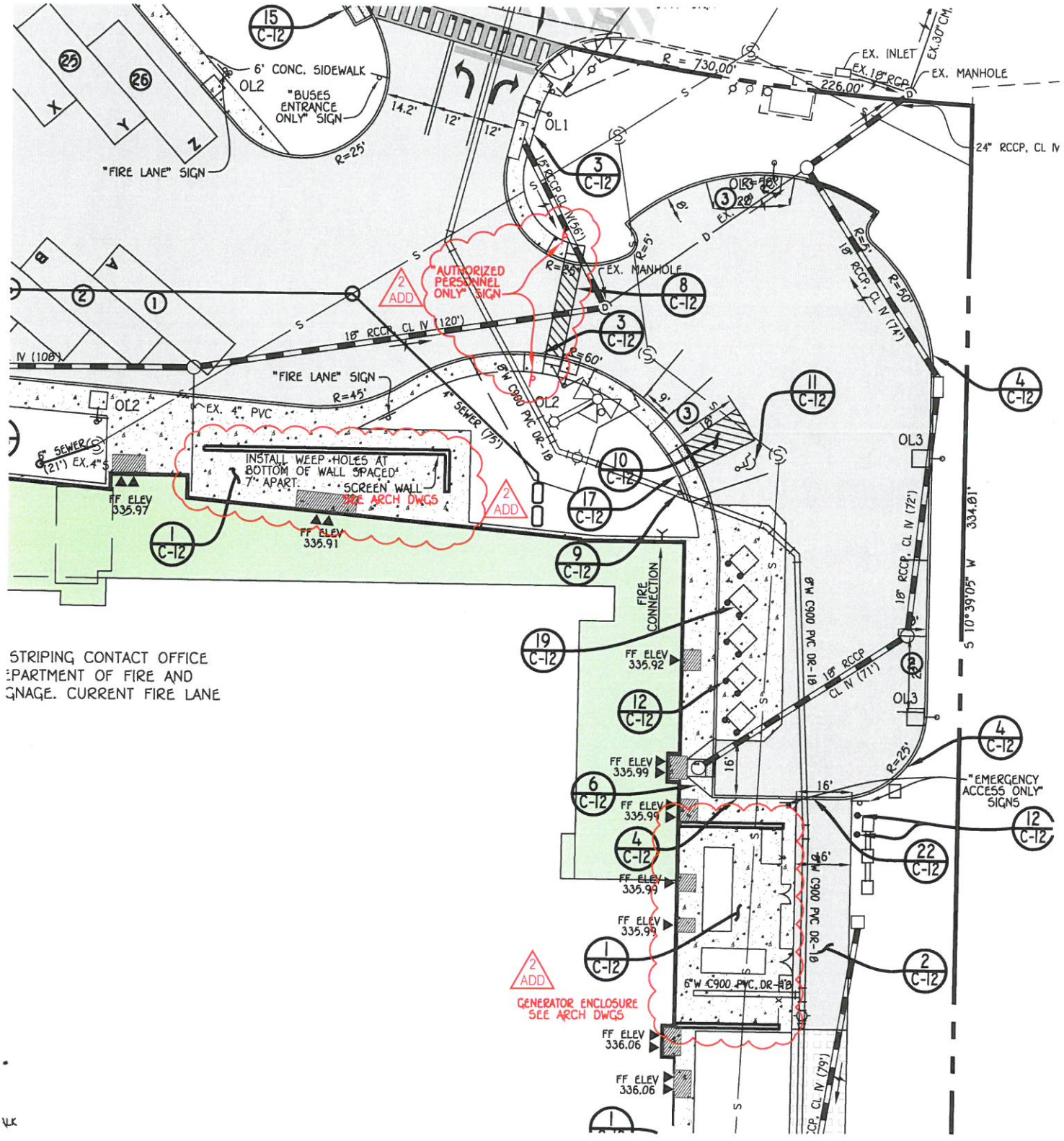
FISHER, COLLINS, CARTER 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21042 410-461-2855(P)	**HAMMOND HIGH SCHOOL** **RENOVATION AND ADDITION**	SCALE: 1" = 40' ADDENDUM 02 DATE: 3/06/20
	ITEM: ADDITIONAL DRAIN FOR SIDE ENTRANCE CANOPY ADDED LABEL FOR ALTERNATE DAYCARE EXPANSION	**AD-C02**



ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: C-4

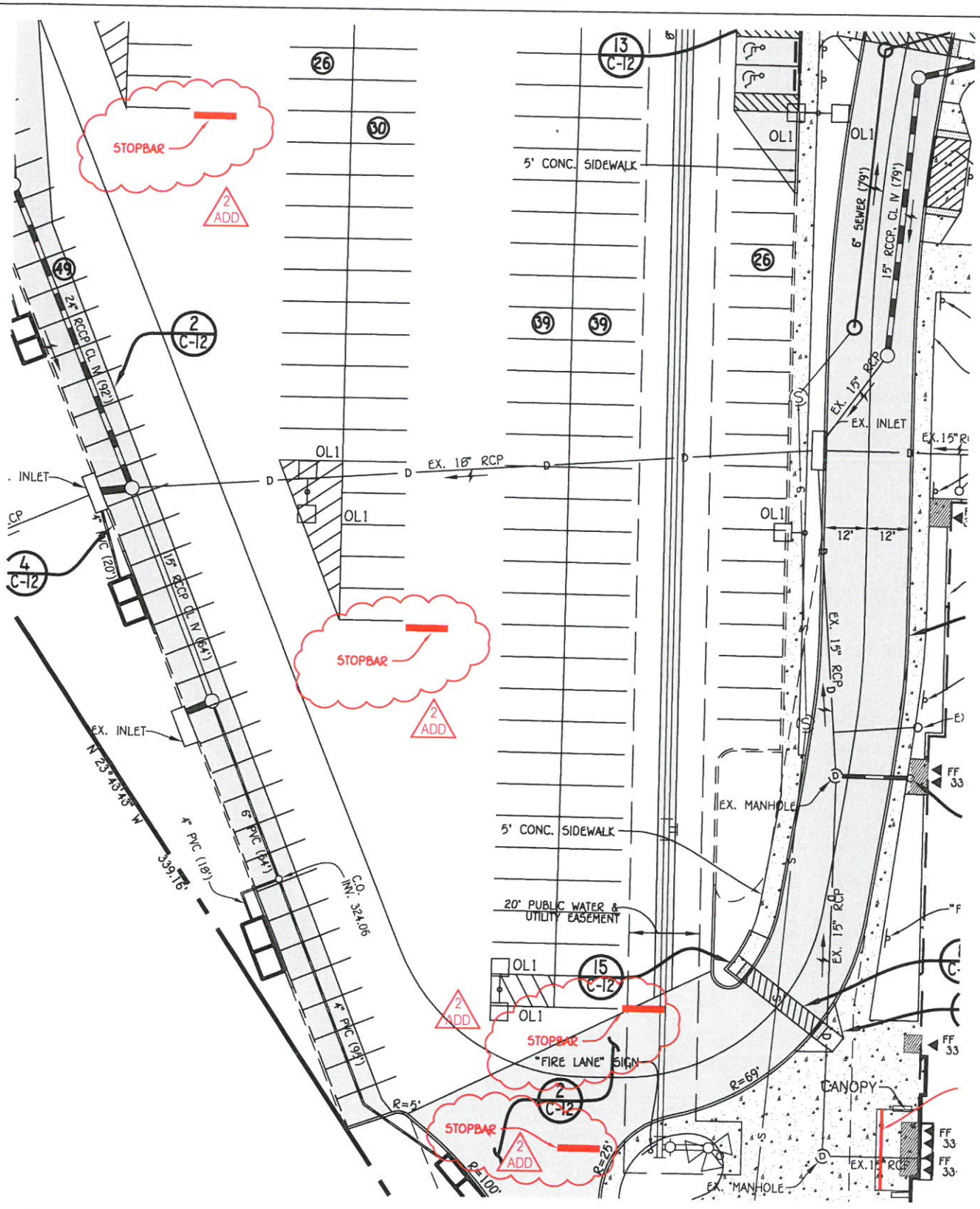
FISHER, COLLINS, CARTER 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21042 410-461-2855(P)	**HAMMOND HIGH SCHOOL RENOVATION AND ADDITION**	SCALE: 1" = 40' ADDENDUM 02 DATE: 3/06/20
	ITEM: ADDITIONAL DRAIN FOR MAIN ENTRANCE CANOPY	**AD-C03**



ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: C-6

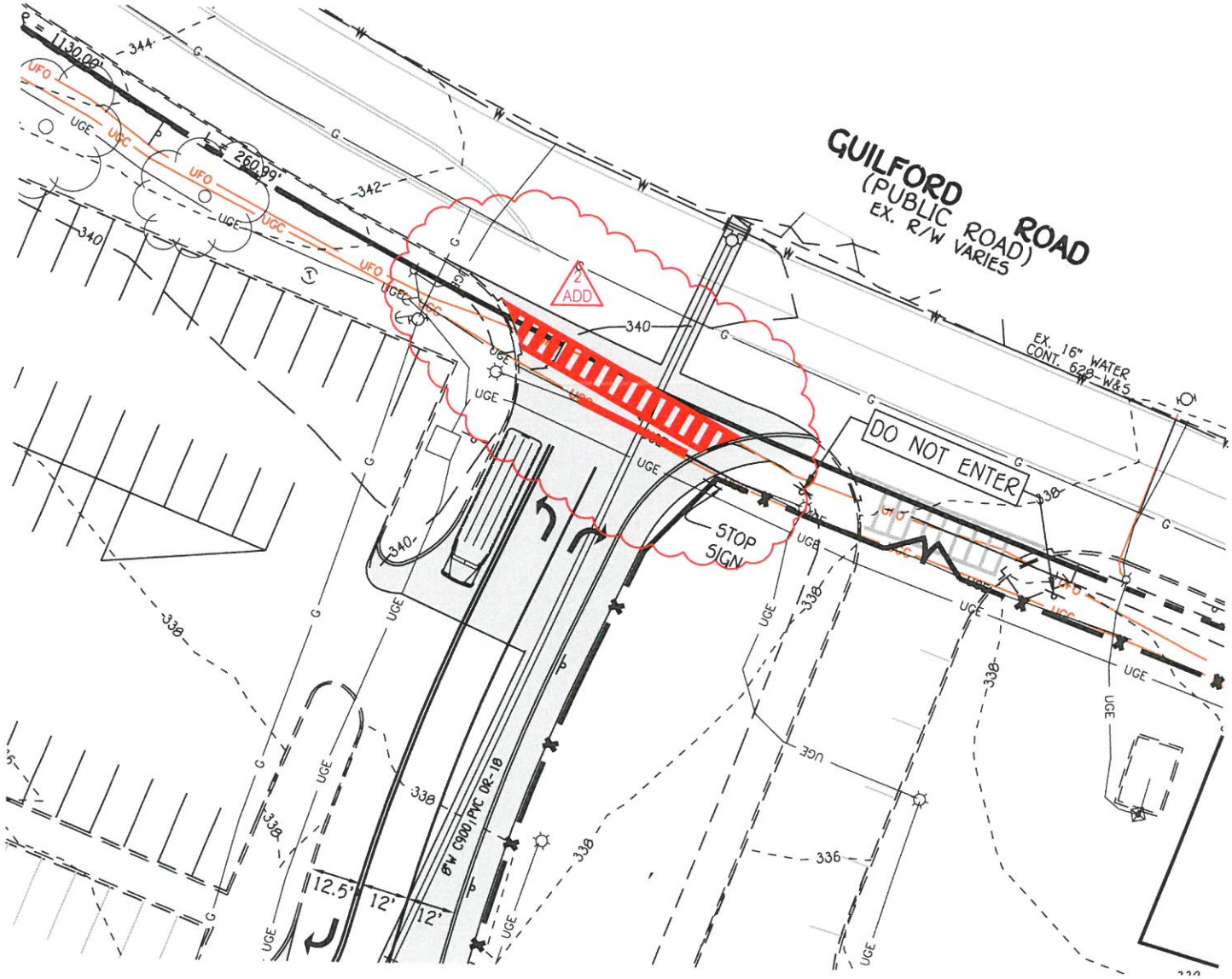
FISHER, COLLINS, CARTER 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21042 410-461-2855(P)	**HAMMOND HIGH SCHOOL** **RENOVATION AND ADDITION**	SCALE: 1" = 40' ADDENDUM 02 DATE: 3/06/20
	ITEM: 2 ADDITIONAL ROAD SIGNS "AUTHORIZED PERSONNEL" SIGNS ADDED SCREENING WALL/ENCLOSURE LABELS	**AD-C04**



ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: C-6

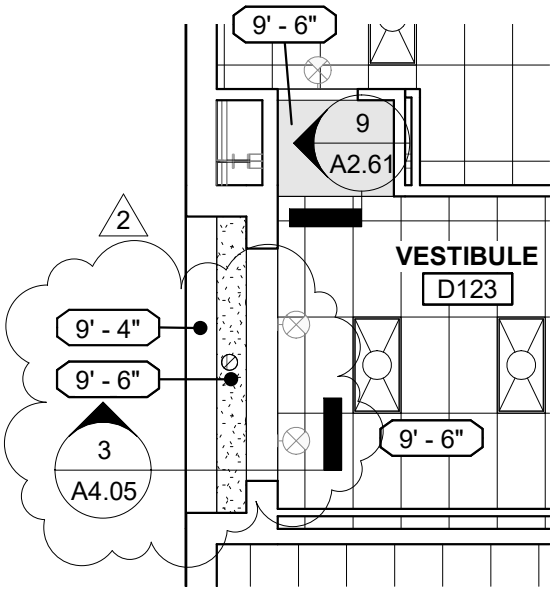
FISHER, COLLINS, CARTER 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21042 410-461-2855(P)	**HAMMOND HIGH SCHOOL RENOVATION AND ADDITION**	SCALE: 1" = 40' ADDENDUM 02 DATE: 3/06/20
	ITEM: 4 ADDITIONAL STOPBARS	**AD-C05**



ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

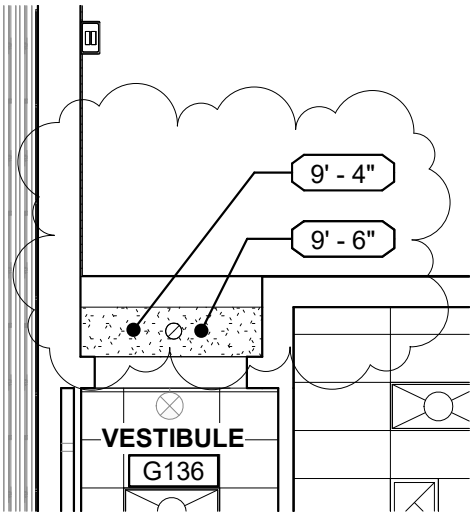
REF SHT NO.: C-14

FISHER, COLLINS, CARTER 10272 BALTIMORE NATIONAL PIKE ELLICOTT CITY, MD 21042 410-461-2855(P)	**HAMMOND HIGH SCHOOL** **RENOVATION AND ADDITION**	SCALE: 1" = 40' ADDENDUM 02 DATE: 3/06/20
	ITEM: **INSTALL CROSSWALK AND STOPBAR FOR TEMPORARY CONDITIONS**	**AD-C06**



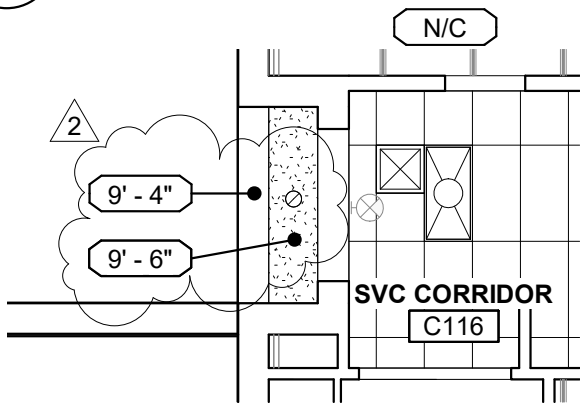
1 / A2.54 PARTIAL RCP - FIRST FLOOR - AREA D

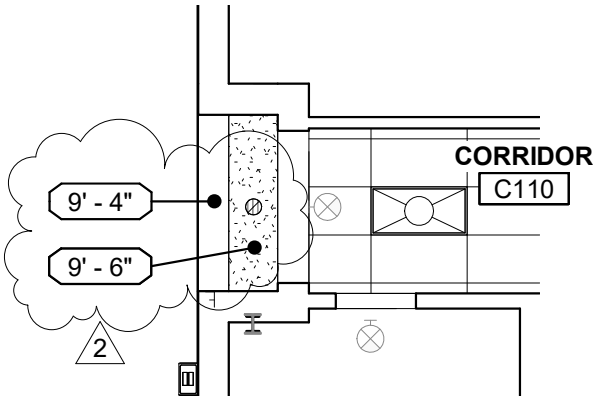
SCALE: 1/8" = 1' - 0"



1 / A2.56 PARTIAL RCP - FIRST FLOOR - AREA G

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





1 / A2.53 PARTIAL RCP - FIRST FLOOR - AREA C

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: A2.53, A2.54, A2.56

SMOLEN • EMR • ILKOVITCH ARCHITECTS

9211 CORPORATE BLVD.
SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

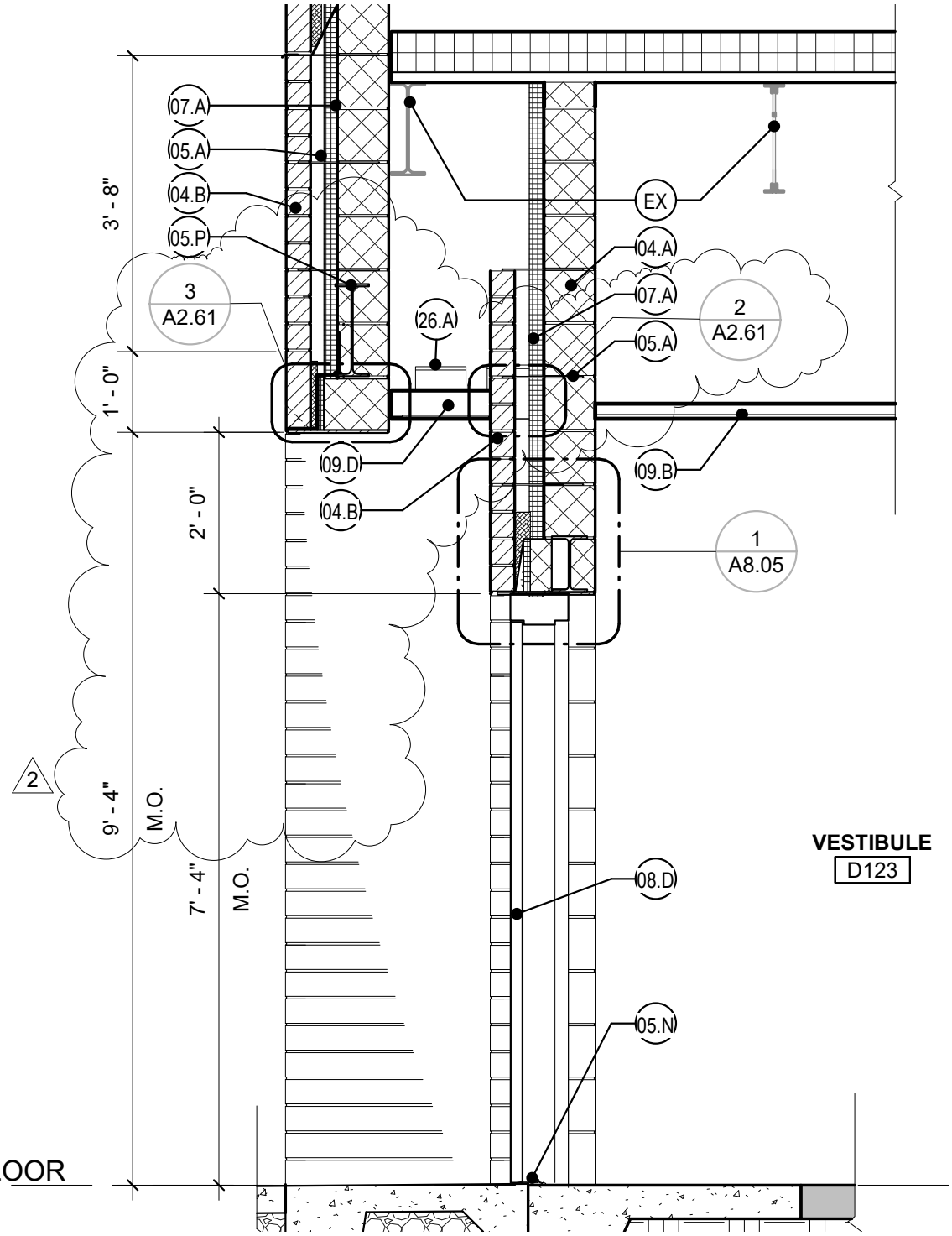
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE:	1/8" = 1'-0"
ADDENDUM:	02
DATE:	03/06/20

ITEM:

SOFFIT HEIGHTS AND LIGHTS

AD-A01



3 / A4.05 WALL SECTION - WEST WALL @ VESTIBULE D123 (TYP)

SCALE: 1/2" = 1' - 0"

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: A4.05

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SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

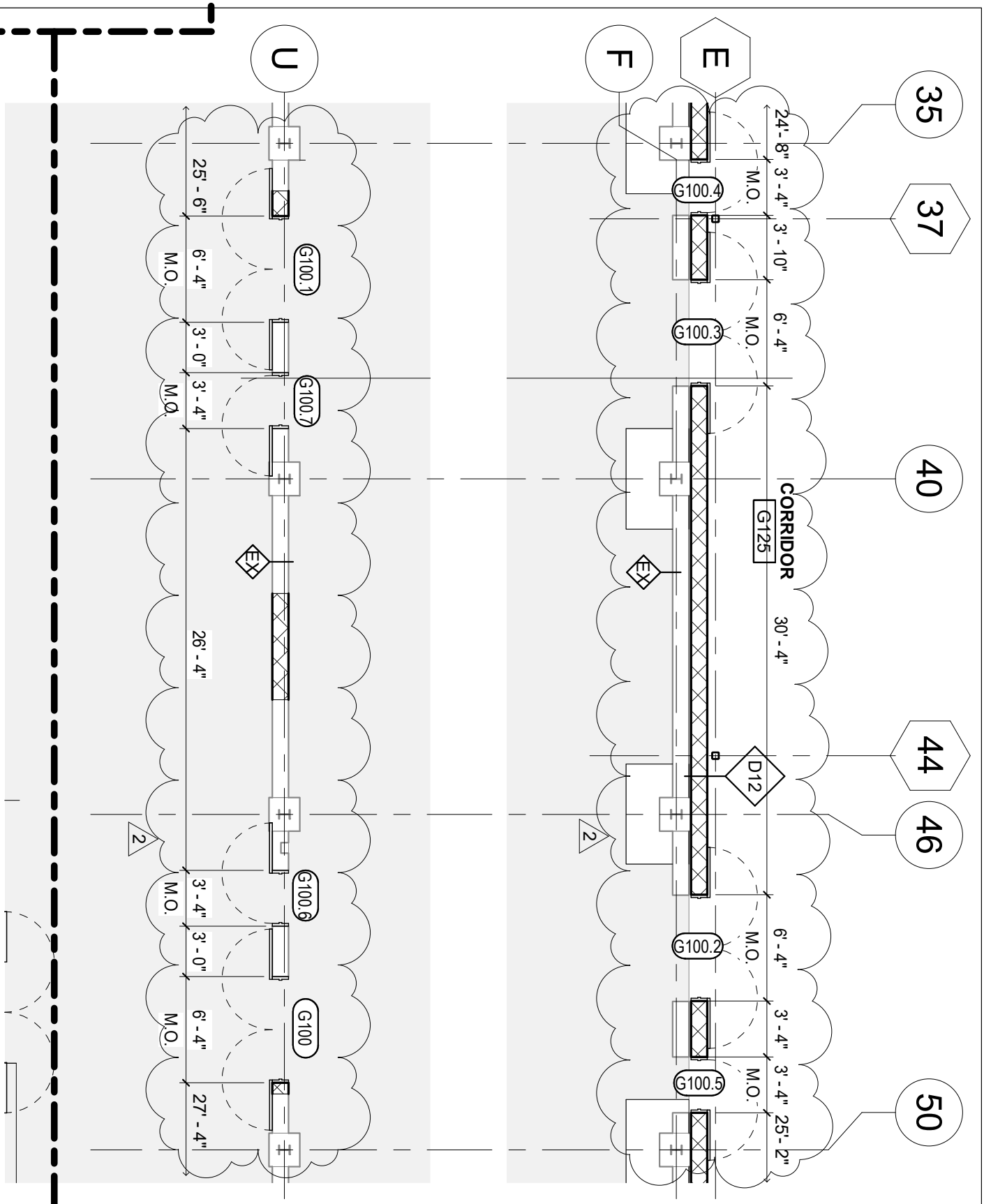
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: 1/2" = 1'-0"
ADDENDUM: 02
DATE: 02/28/20

ITEM:

SOFFIT HEIGHT SECTION REVISION

AD-A02



1 A2.06 AREA G - FIRST FLOOR

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: A2.06

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SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

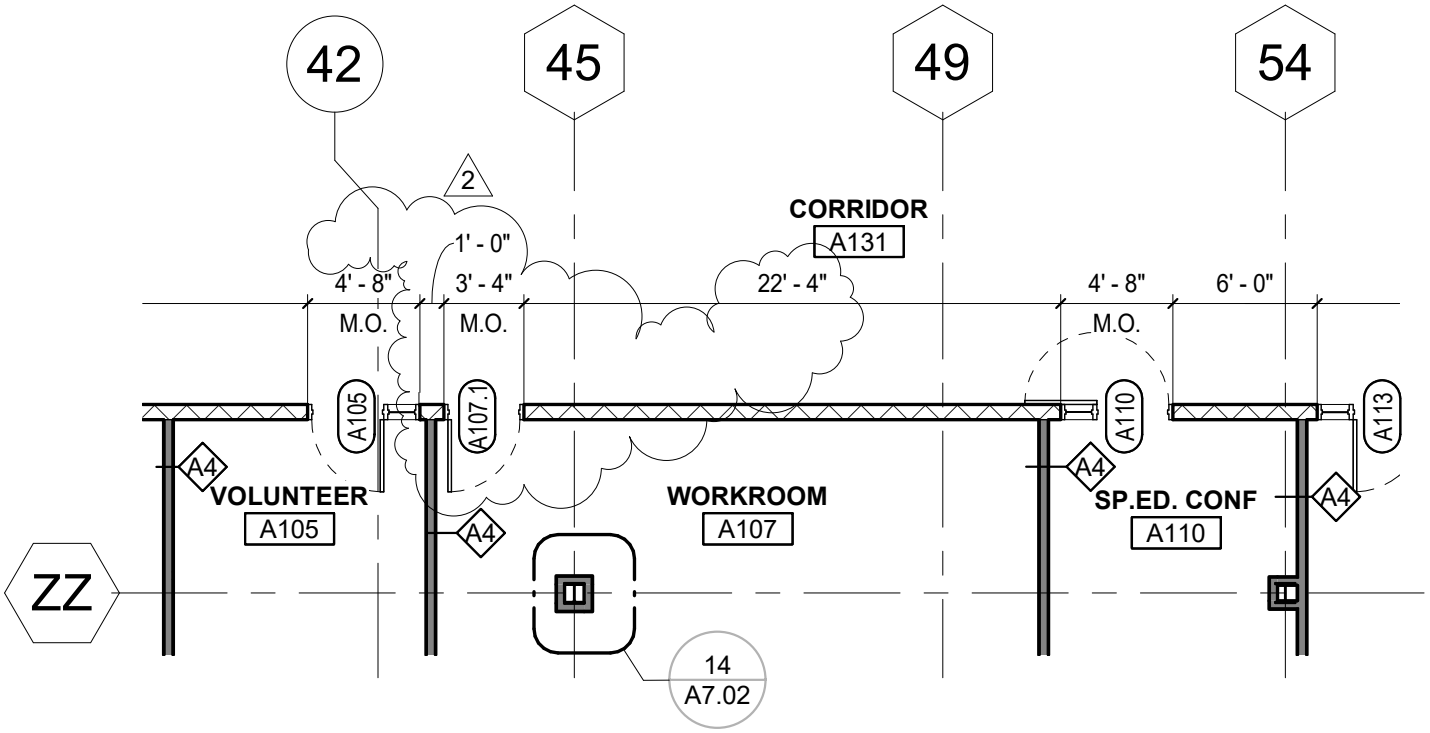
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: 1/8" = 1'-0"
ADDENDUM: 02
DATE: 03/06/20

ITEM:

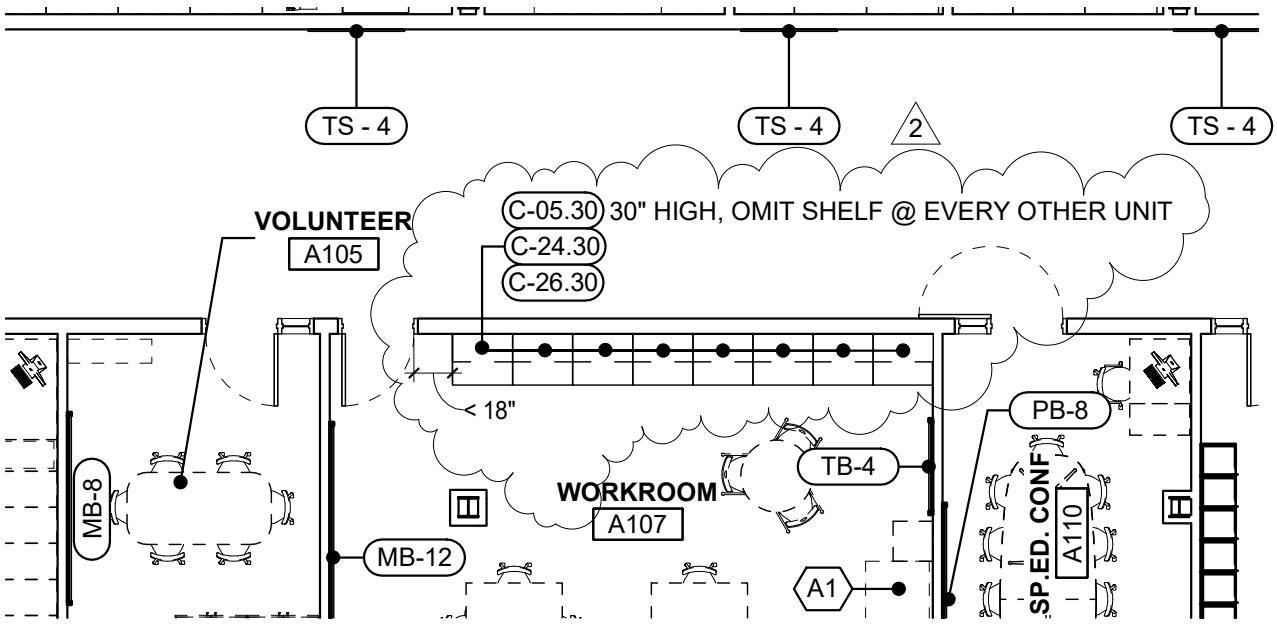
GYMNASIUM DOORS

AD-A03



1 / A2.01 AREA A - FIRST FLOOR

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



1 / A9.06 PARTIAL CASEWORK PLAN - FIRST FLOOR - AREA A

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: A2.01, A9.01

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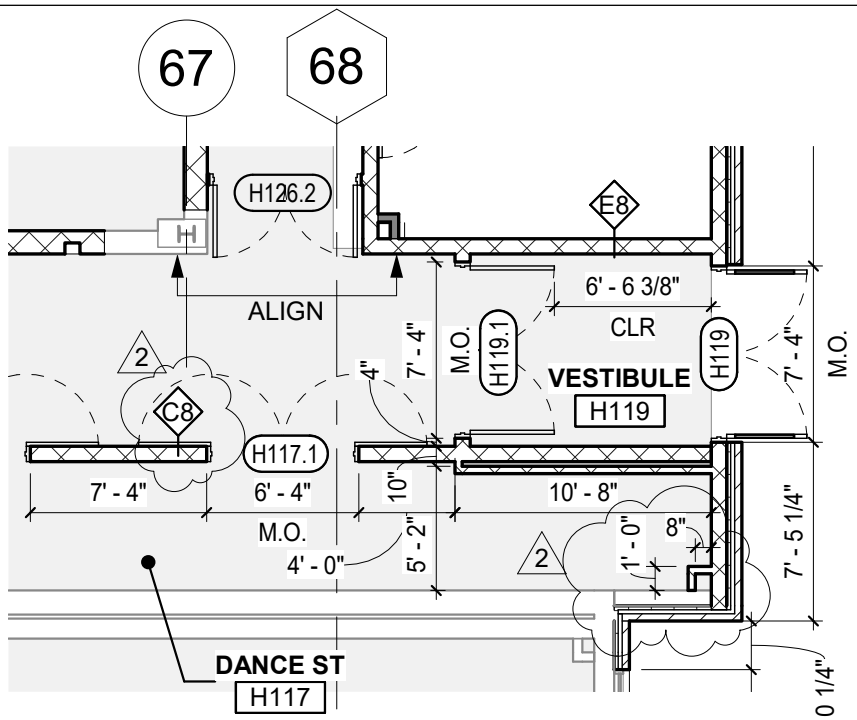
SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: 1/8" = 1'-0"
ADDENDUM: 02
DATE: 3/6/2020

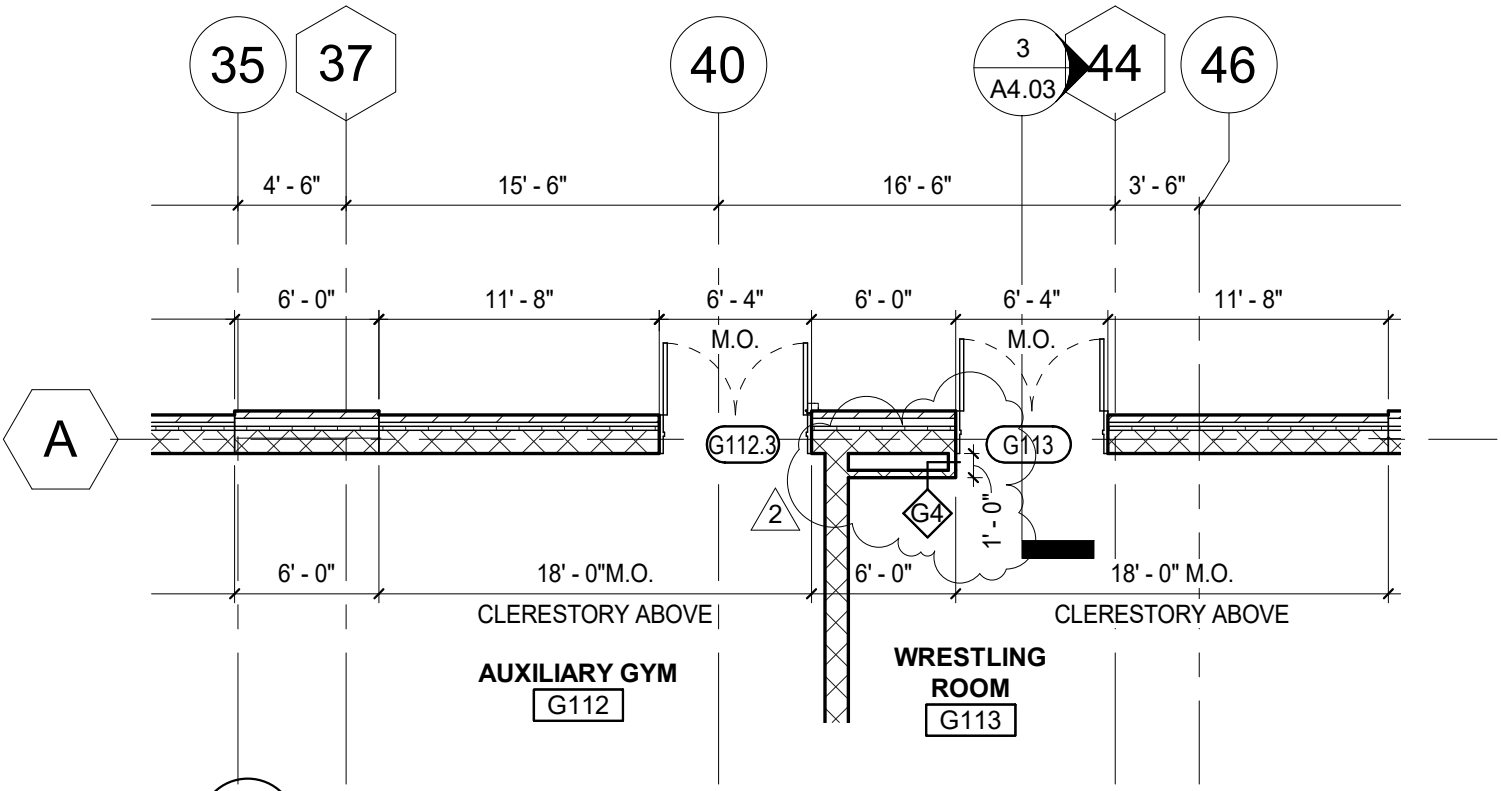
ITEM:
WORKROOM MAILBOX REVISIONS

AD-A04



1 / A2.07 AREA H - FIRST FLOOR

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



1 / A2.06 AREA G - FIRST FLOOR

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: A2.06, A2.07

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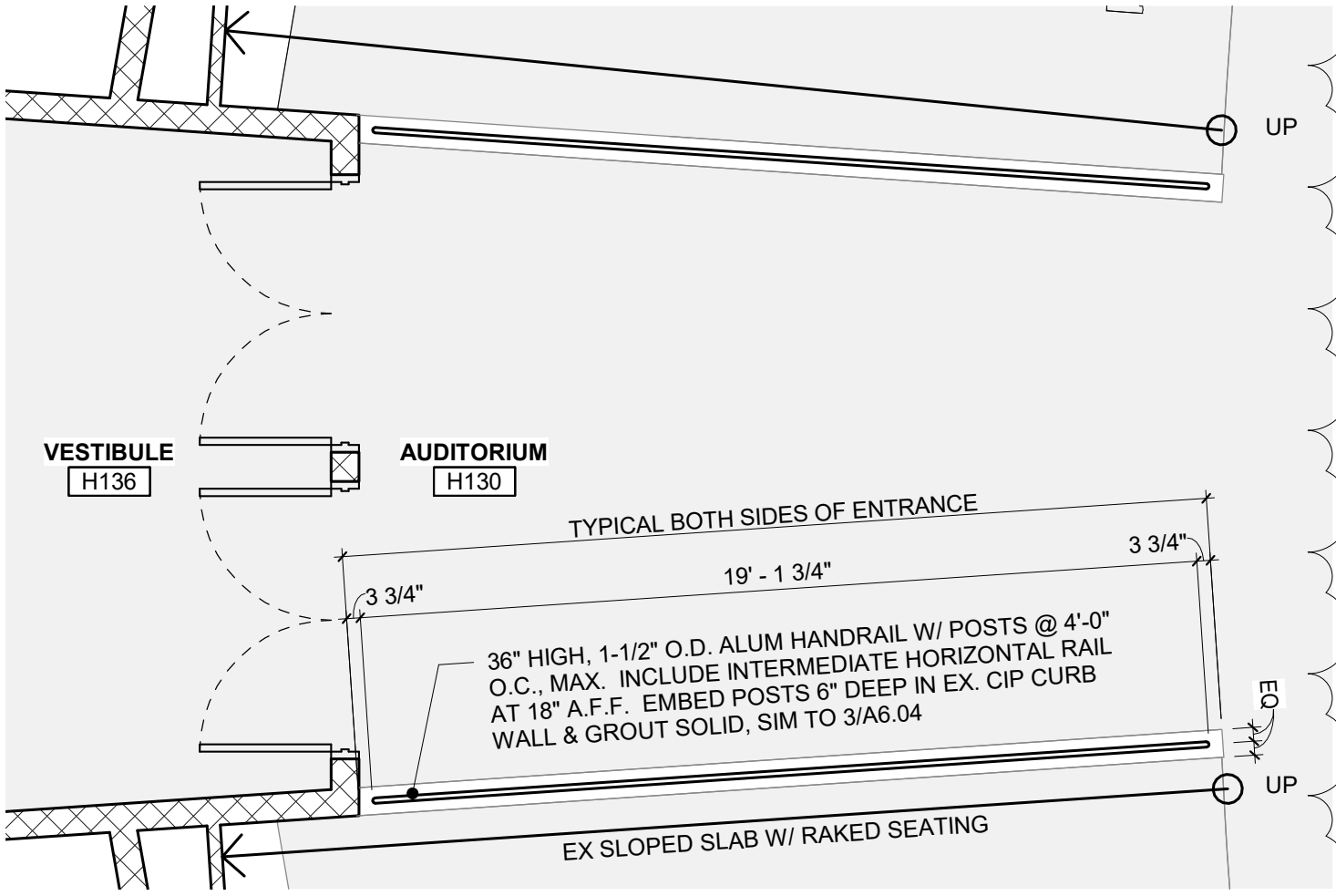
SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

ITEM: MASONRY CHASES

SCALE:	1/8" = 1'-0"
ADDENDUM:	02
DATE:	3/6/2020

AD-A05



7 / A6.04 AREA H - FIRST FLOOR - CURB WALL RAILS

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.:

SMOLEN • EMR • ILKOVITCH ARCHITECTS

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SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE:	1/4" = 1'-0"
ADDENDUM:	2
DATE:	3/4/2020

ITEM:

AUDITORIUM CURB WALL HANDRAIL

AD-A06

2

NOTES

EXISTING RIGGING/LIGHTING:

1. EXISTING THEATRICAL RIGGING AND LIGHTING SYSTEMS ARE TO BE RETAINED WITH THE EXCEPTION OF MODIFICATIONS INDICATED ON THE THEATER DRAWINGS:

   1.1. TWO (2) NEW WALK-ALONG DRAPERY TRACKS FOR SOFT SCENERY PANELS.

   1.2. ONE (1) NEW MOTORIZED HOIST FOR NEW CYCLORAMA CURTAIN.

   1.3. THEATRICAL LOW VOLTAGE LIGHTING CONTROL SYSTEM IS TO BE UPGRADED WITH A NEW CONTROL BOARD AND ARCHITECTURAL CONTROL PROCESSOR AND INTERFACED WITH EXISTING-TO-REMAIN DMX DISTRIBUTION CABLING AND DIMMING SYSTEM CONTROLLER(S).

   1.4. THEATRICAL LIGHTING SYSTEM POWER DISTRIBUTION AND THEATRICAL LIGHTING FIXTURES ARE TO BE RETAINED. EXISTING THEATRICAL DIMMING SYSTEM IS TO BE INTEGRATED INTO THE NEW THEATRICAL CONTROL SYSTEM.

   1.5. THE NEW THEATRICAL LIGHTING LOW VOLTAGE CONTROL SYSTEM IS TO BE INTERFACED WITH NEW ARCHITECTURAL LIGHTING (ARCHITECTURAL LIGHTING BY DIVISION 26) TO INCLUDE NEW LOW VOLTAGE EMERGENCY LIGHTING DMX BYPASS CONTROLLER.

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: TH1.00

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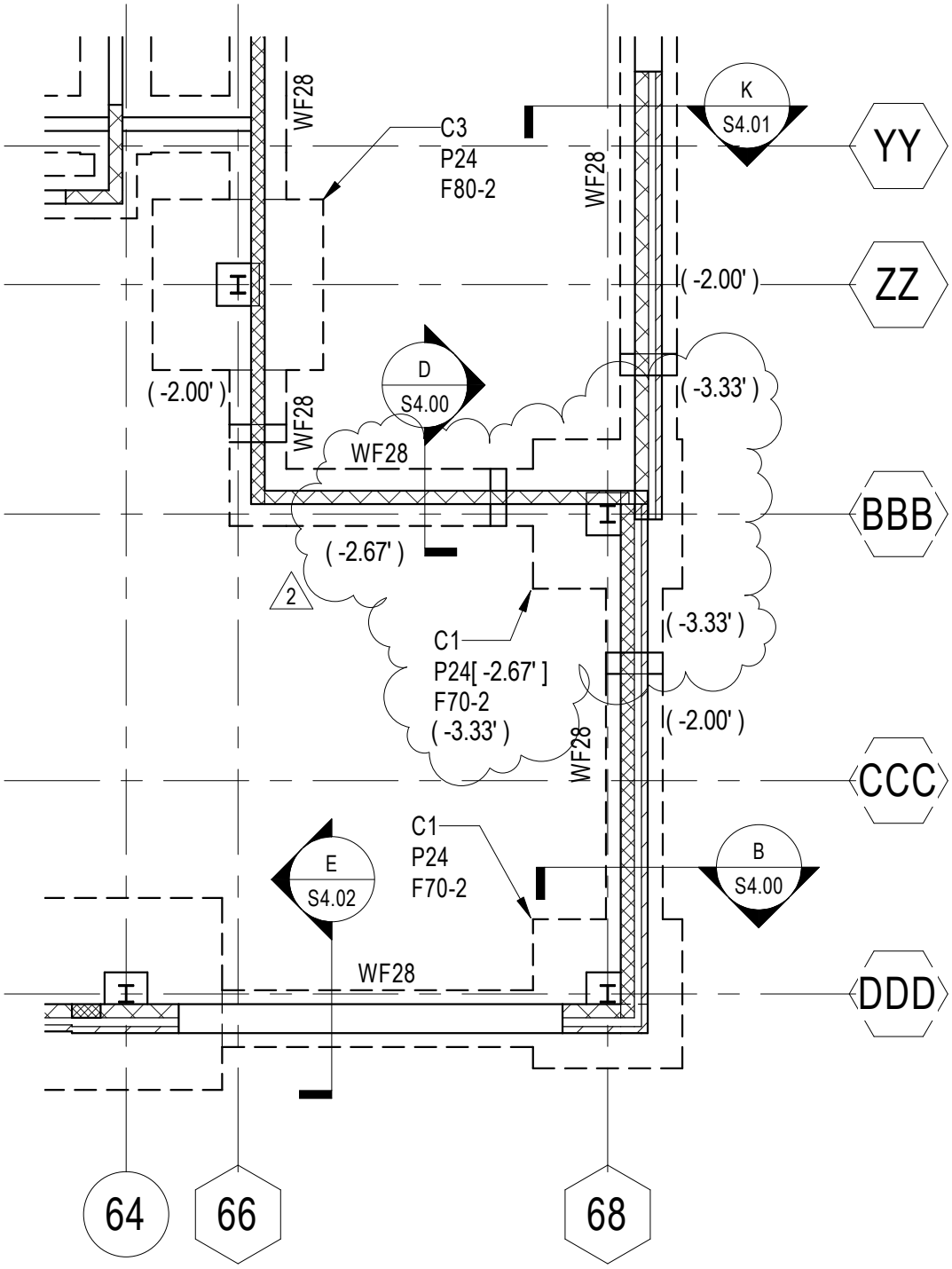
SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: N.T.S.
ADDENDUM 02
DATE: 3/06/20

ITEM:
NOTE ON THEATER SCOPE
(APPLIES TO ALL THEATER SHEETS)

AD-TH01



FOUNDATION AND SLAB ON GRADE PLAN - AREA A

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: S2.00

SMOLEN • EMR • ILKOVITCH ARCHITECTS

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SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

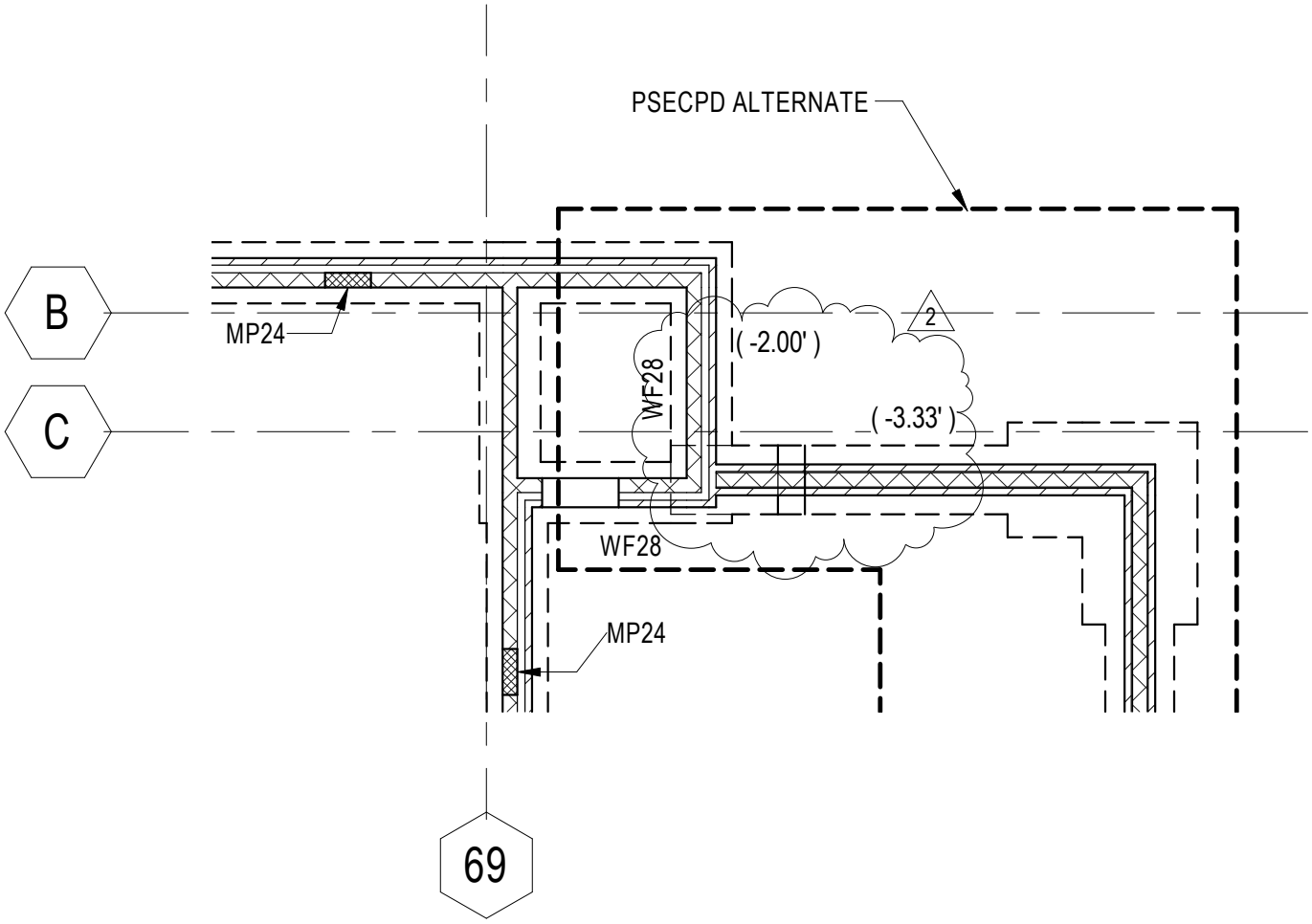
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE:	**1/8" = 1'-0"**
ADDENDUM:	02
DATE:	**03/06/20**

ITEM:

PARTIAL FOUNDATION AND SLAB ON GRADE PLAN - AREA A

AD-S01



FOUNDATION AND SLAB ON GRADE PLAN - AREA G

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: S2.05

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SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

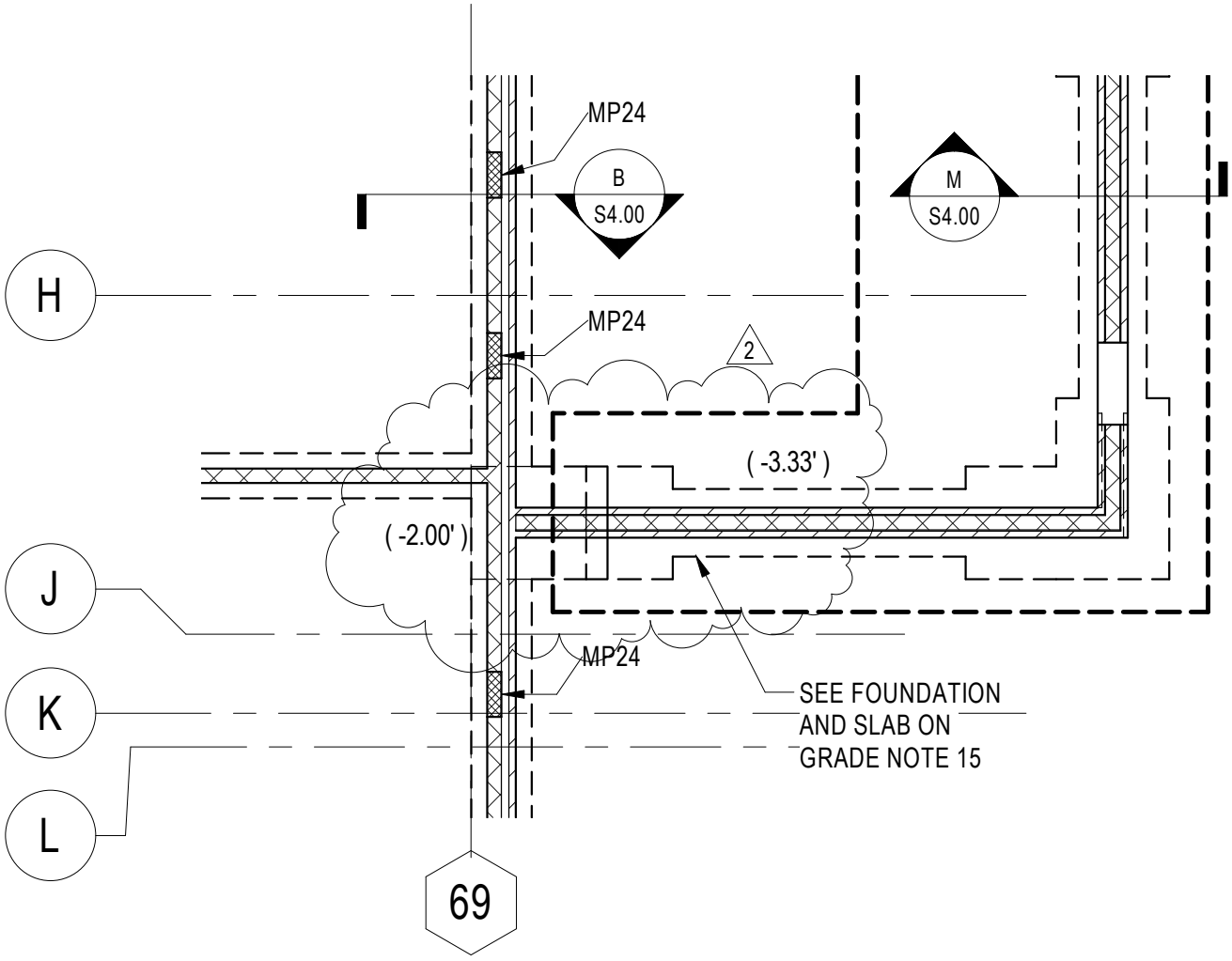
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE:	**1/8" = 1'-0"**
Approver	02
DATE:	**03/06/20**

ITEM:

PARTIAL FOUNDATION AND SLAB ON GRADE PLAN - AREA G

AD-S02



FOUNDATION AND SLAB ON GRADE PLAN - AREA G

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: S2.05

SMOLEN • EMR • ILKOVITCH ARCHITECTS

9211 CORPORATE BLVD.
SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

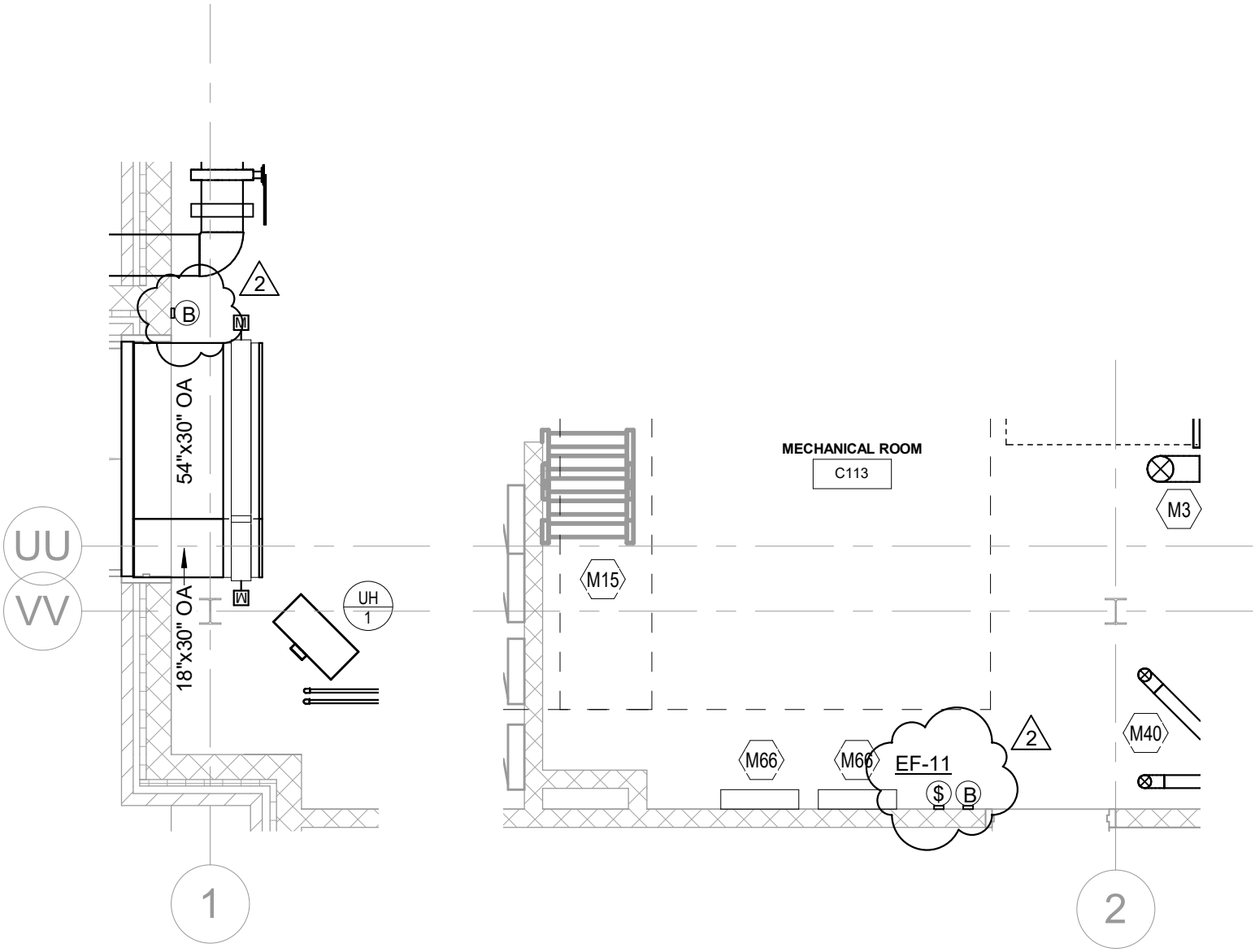
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE:	**1/8" = 1'-0"**
Approver	02
DATE:	**03/06/20**

ITEM:

PARTIAL FOUNDATION AND SLAB ON GRADE PLAN - AREA G

AD-S03



1 / M4.02 ENLARGED BOILER ROOM PLAN - MECHANICAL

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: M4.02

SMOLEN • EMR • ILKOVITCH ARCHITECTS

9211 CORPORATE BLVD.
SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

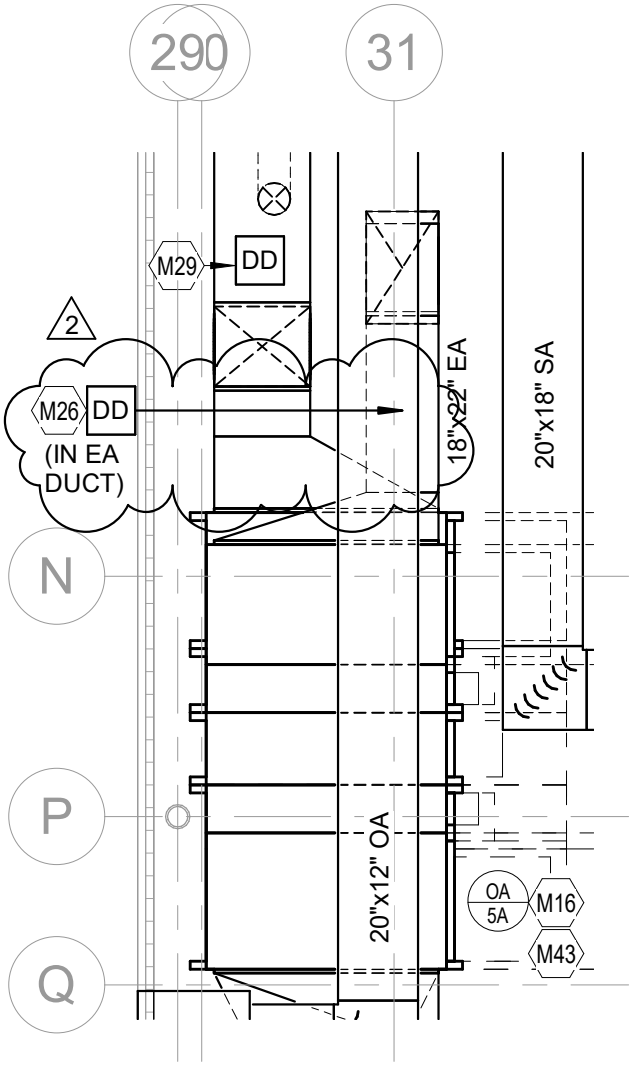
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

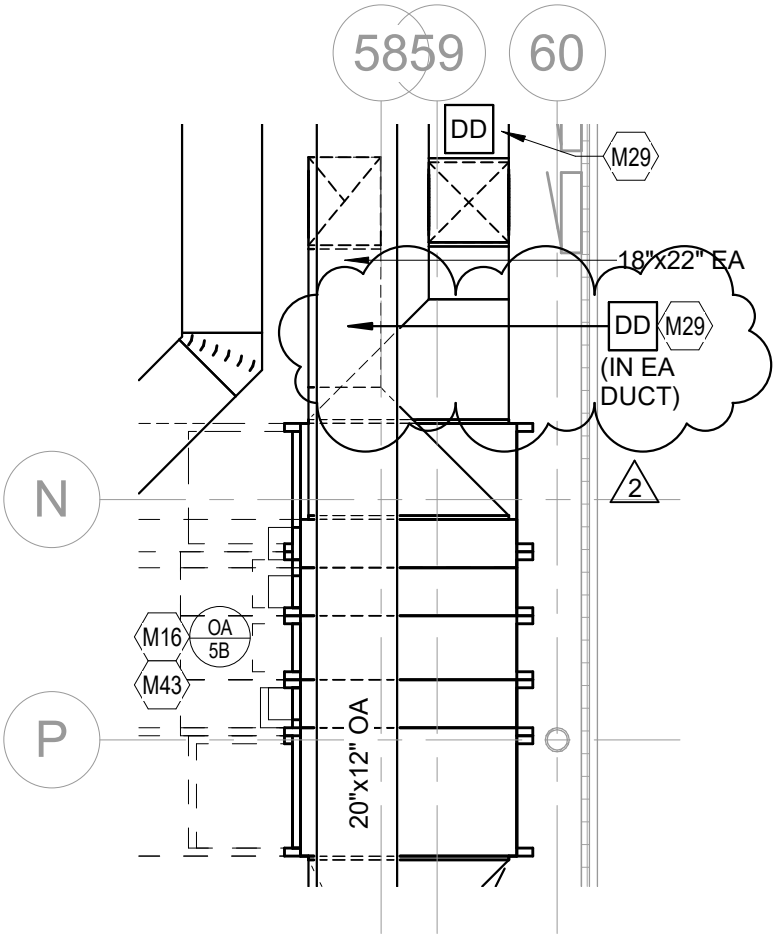
SCALE: 1/4" = 1'-0"
ADDENDUM: 02
DATE: 03/06/20

ITEM:

EMERGENCY BOILER SHUT-OFF SWITCHES

AD-M01





2 / M4.06 ENLARGED PENTHOUSE #1 - MECHANICAL
SCALE: 1/4" = 1'-0"

1 / M4.06 ENLARGED PENTHOUSE #2 - MECHANICAL
SCALE: 1/4" = 1'-0"

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: M4.06

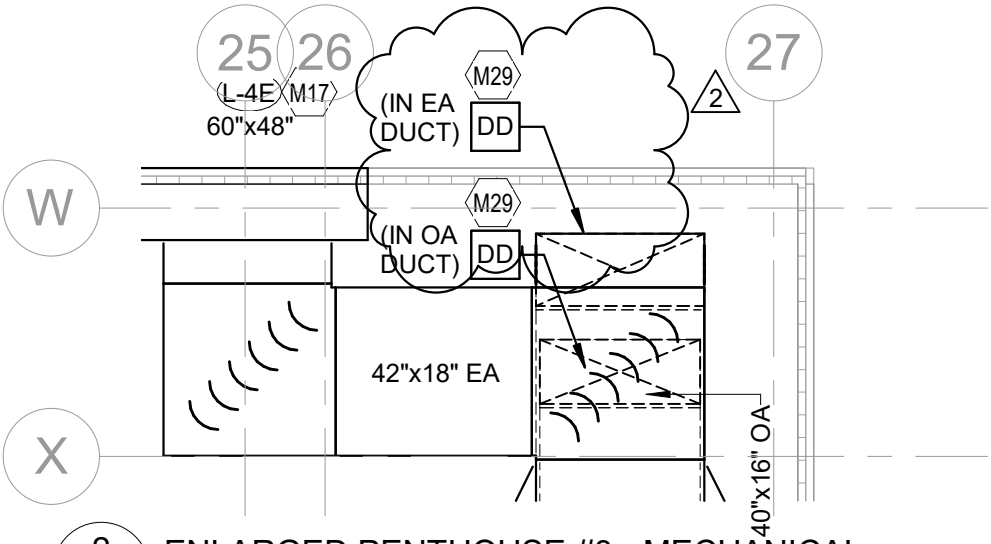
SMOLEN • EMR • ILKOVITCH ARCHITECTS
9211 CORPORATE BLVD.
SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: 1/4" = 1'-0"
ADDENDUM: 02
DATE: 03/06/20

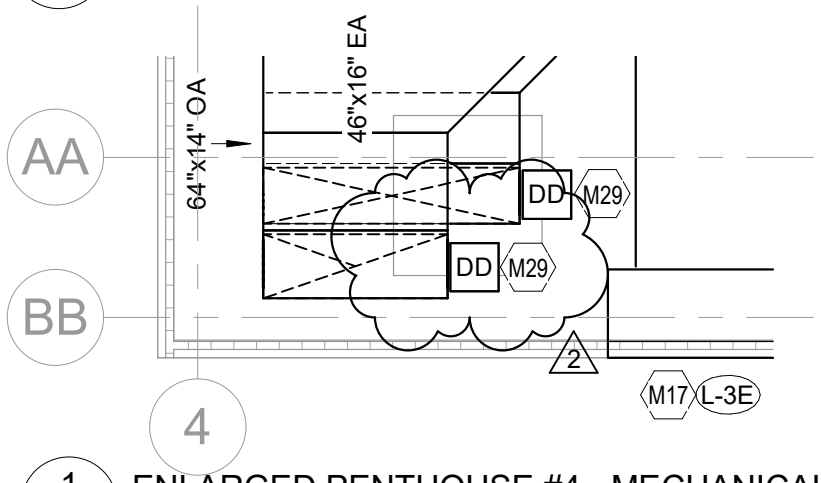
ITEM:
DUCT MOUNTED SMOKE DETECTORS - OA-5A, 5B

AD-M02



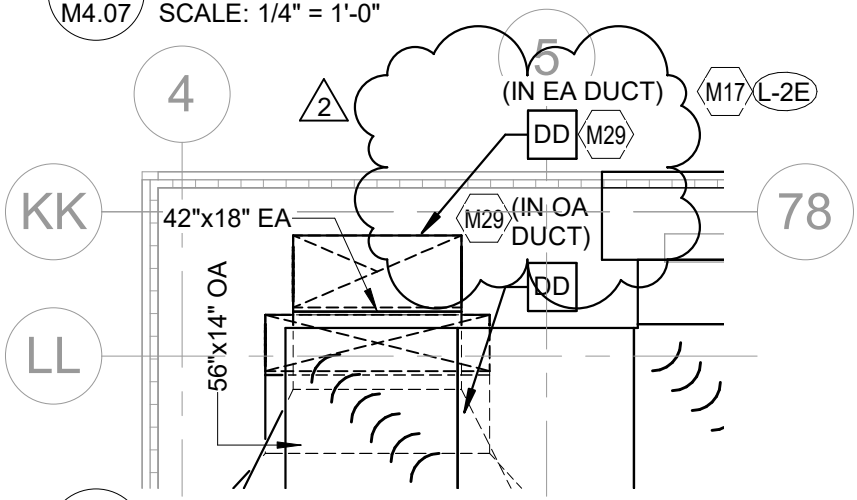
2 / M4.07 ENLARGED PENTHOUSE #3 - MECHANICAL

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



1 / M4.07 ENLARGED PENTHOUSE #4 - MECHANICAL

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



3 / M4.07 ENLARGED PENTHOUSE #5 - MECHANICAL

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: M4.07

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9211 CORPORATE BLVD.
SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

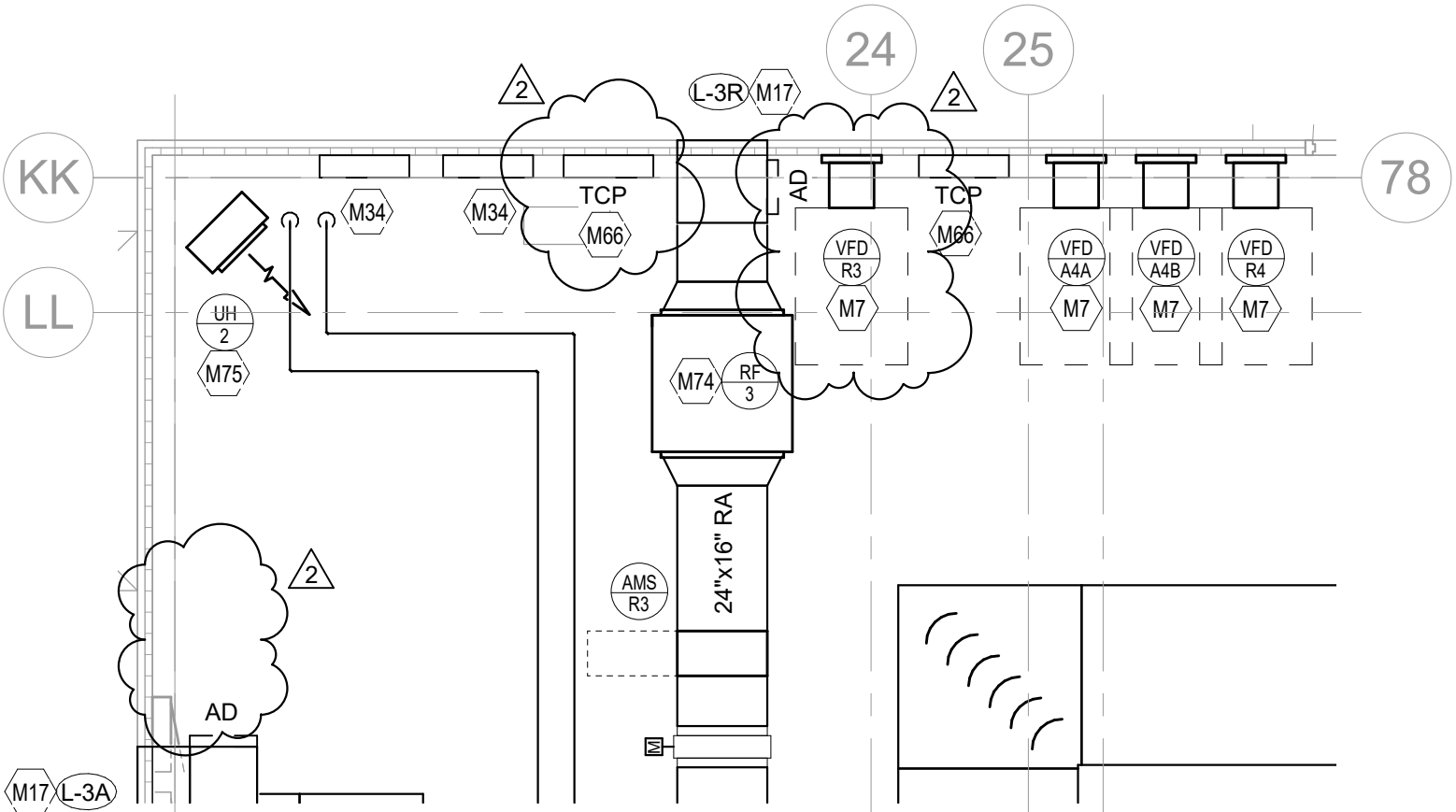
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE:	**1/4" = 1'-0"**
ADDENDUM:	**02**
DATE:	**03/06/20**

ITEM:

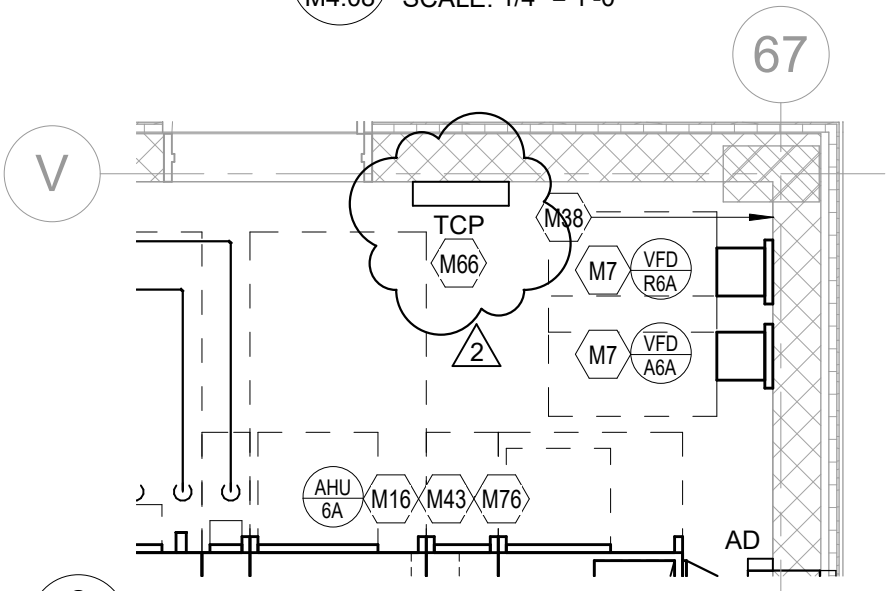
DUCT MOUNTED SMOKE DETECTORS - OA-2, 3, 4

AD-M03



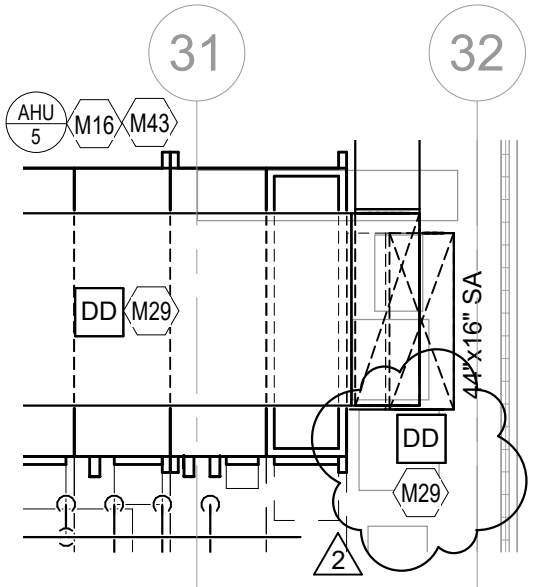
1 M4.08 ENLARGED PENTHOUSE #6 - MECHANICAL

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



2 M4.08 ENLARGED AUD MECH RM #1 - MECHANICAL

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



1 M4.08 ENLARGED PENTHOUSE #6 - M.

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

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REF SHT NO.: M4.08

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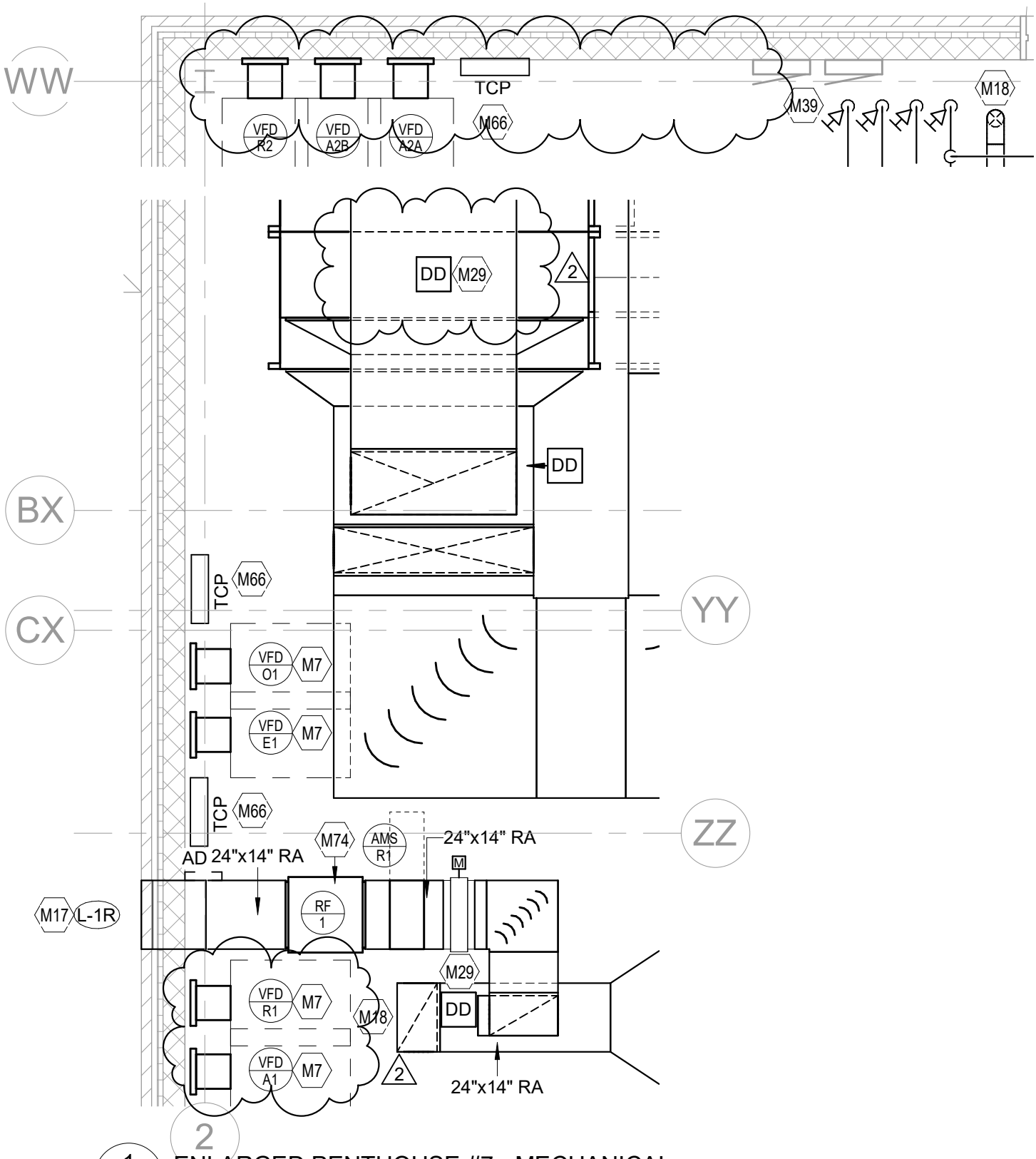
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE:	**1/4" = 1'-0"**
ADDENDUM:	**02**
DATE:	**03/06/20**

ITEM:

VFD-R3/TCP PANELS/DUCT-MOUNTED SMOKE DETECTORS - PENTHOUSE #6, AUD MECH RM #1

AD-M04



1 / M4.09 ENLARGED PENTHOUSE #7 - MECHANICAL

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: M4.09

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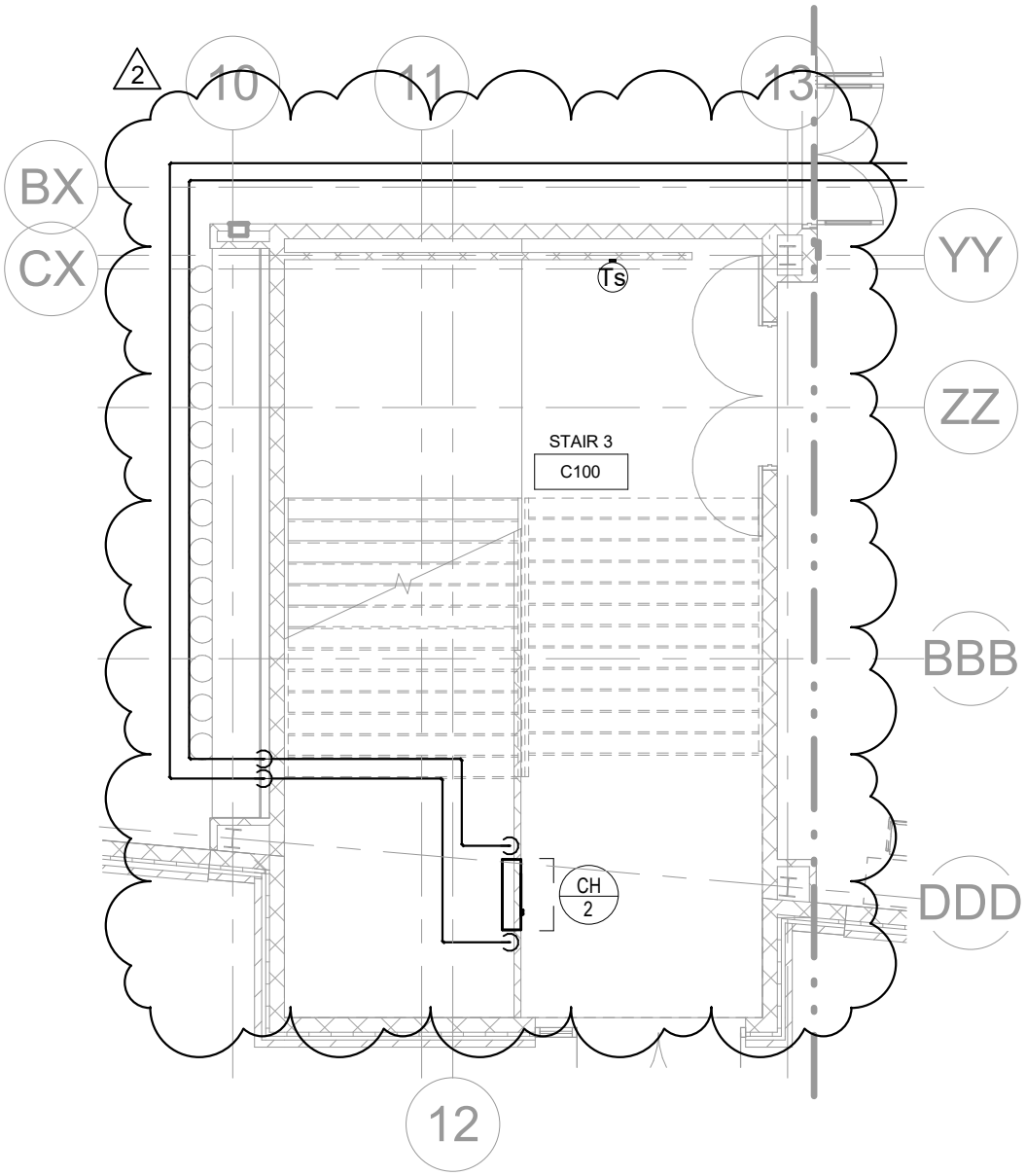
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE:	**1/4" = 1'-0"**
ADDENDUM:	**02**
DATE:	**03/06/20**

ITEM:

DUCT-MOUNTED SMOKE DETECTOR - OA-1, VFD REVISIONS - PENTHOUSE #7

AD-M05



1 / M3.03 FIRST FLOOR PLAN - AREA C - MECHANICAL

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: M3.03

SMOLEN • EMR • ILKOVITCH ARCHITECTS

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301-770-0177(P) 301-330-3224(F)

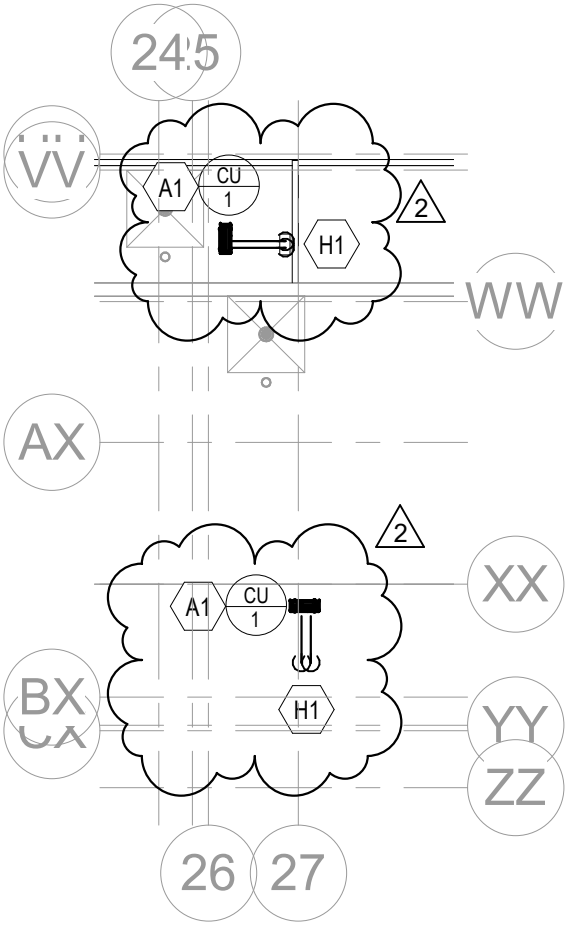
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: 1/8" = 1'-0"
ADDENDUM: 02
DATE: 03/06/20

ITEM:

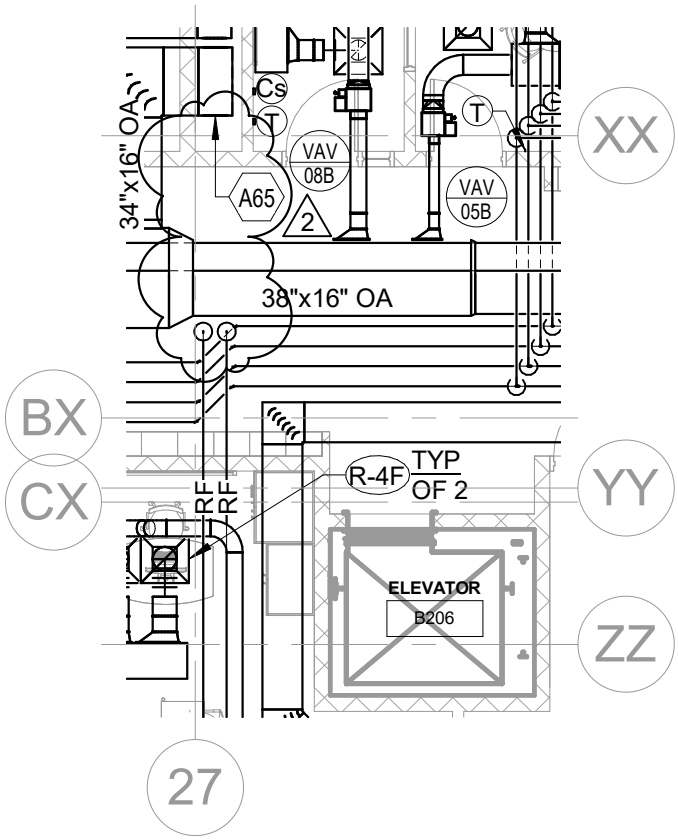
CABINET HEATER - STAIR 3 C100

AD-M06



1 / M3.20 ROOF PLAN - MECHANICAL

SCALE: 1" = 20'-0"



1 / M3.10 SECOND FLOOR PLAN - AREA B & C - MECHANICAL

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: M3.20 M3.10

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SUITE 340
ROCKVILLE, MD 20850
301-770-0177(P) 301-330-3224(F)

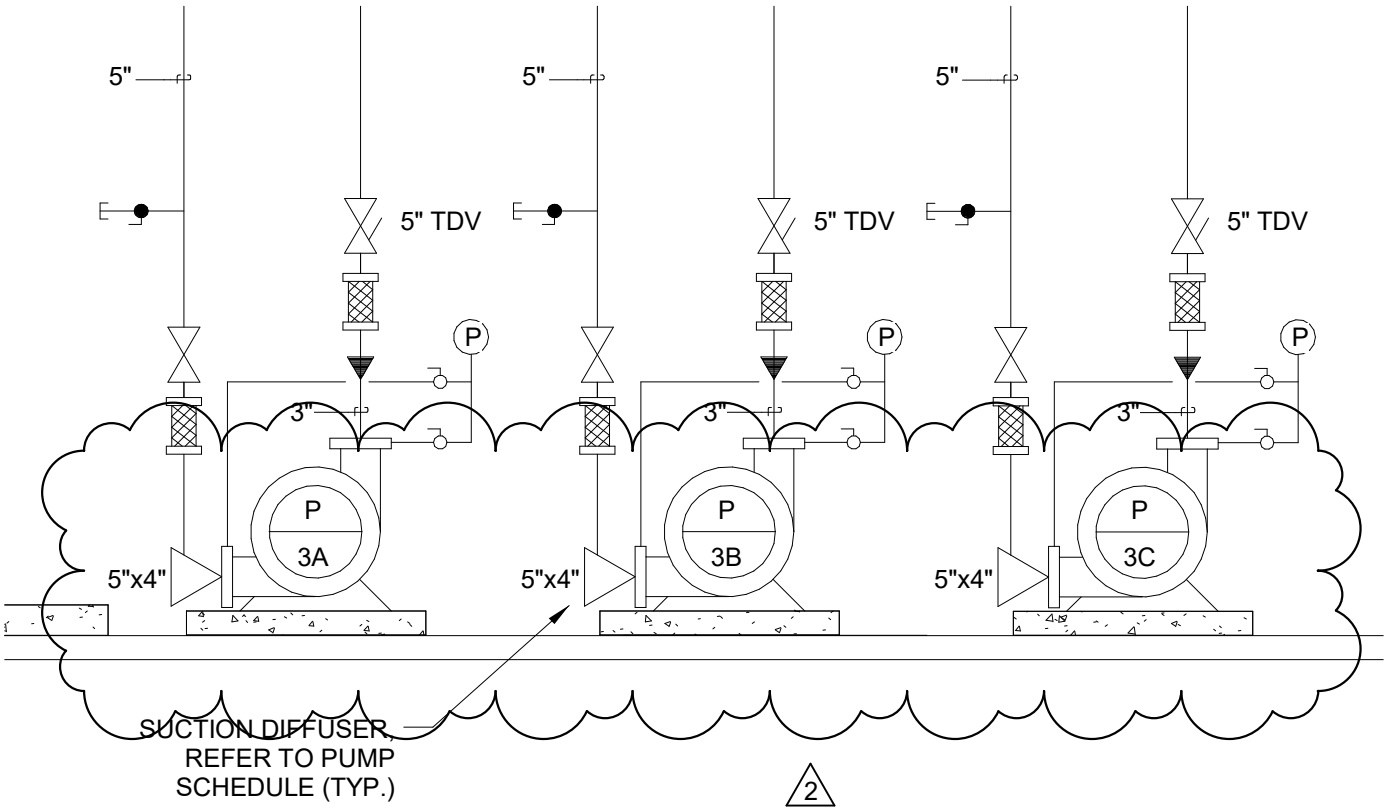
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

ITEM:

SPLIT SYSTEM CONDENSING UNIT - IDF B210

SCALE: As indicated
ADDENDUM: 02
DATE: 03/06/20

AD-M07



PRIMARY HOT WATER PIPING SCHEMATIC

NOT TO SCALE

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: M5.02

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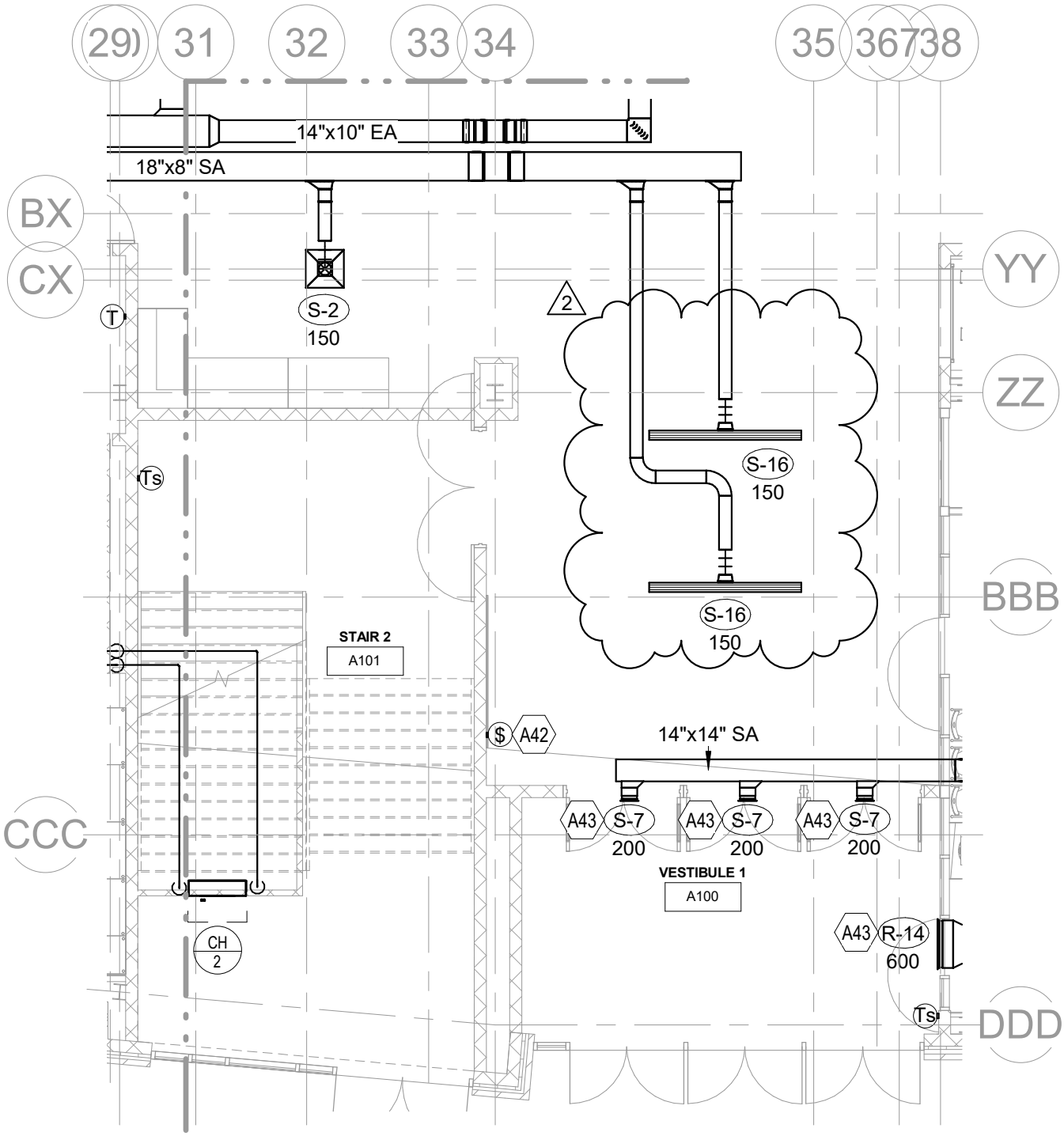
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: 12" = 1'-0"
ADDENDUM 02
DATE: 03/06/20

ITEM:

HOT WATER PUMP SUCTION DIFFUSER

AD-M08



1
M3.01

FIRST FLOOR PLAN - AREA A - MECHANICAL

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

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REF SHT NO.: M3.01

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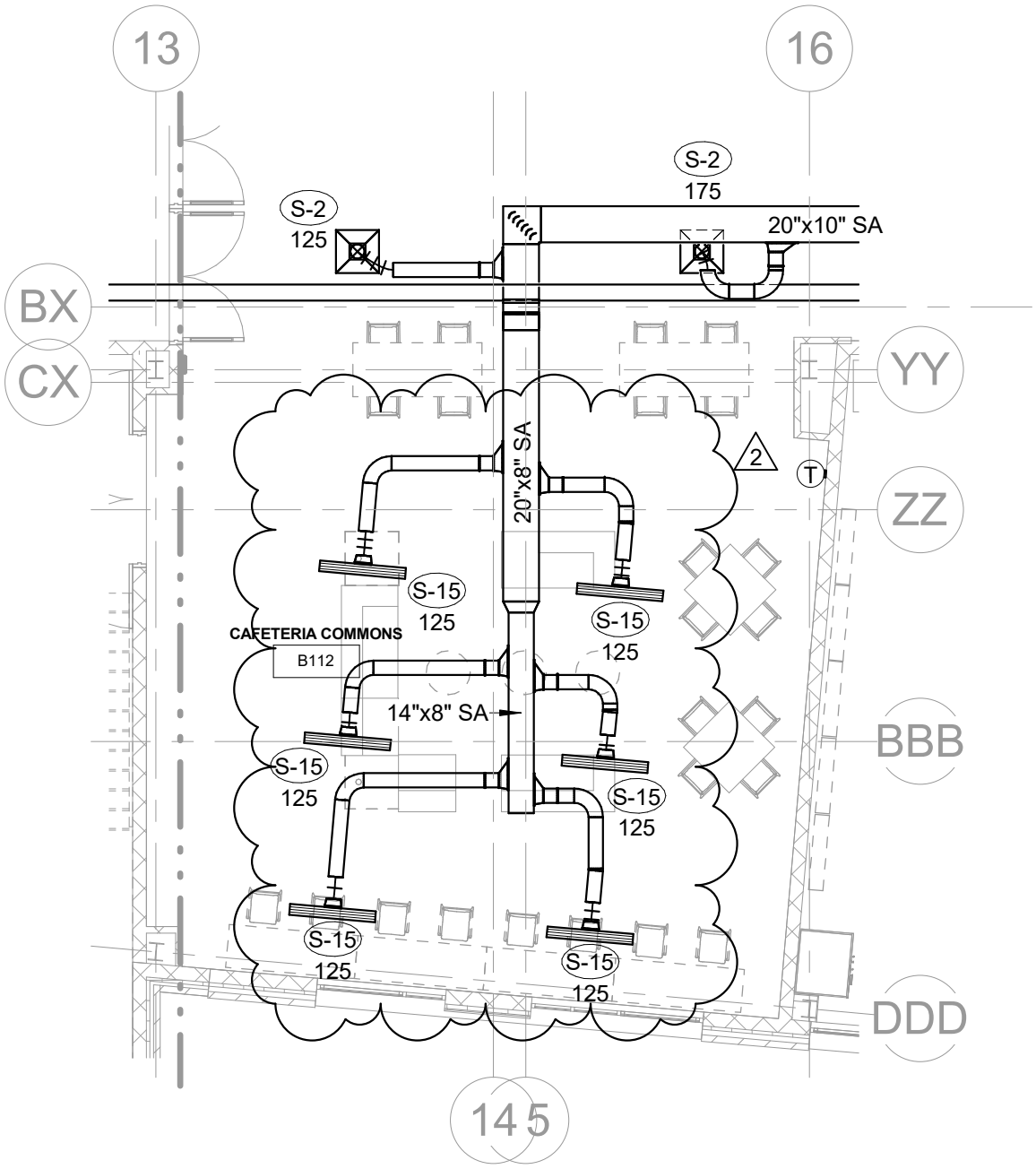
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: 1/8" = 1'-0"
ADDENDUM: 02
DATE: 03/06/20

ITEM:

DIFFUSER TYPE - LOBBY A102

AD-M09



1 / M3.02 FIRST FLOOR PLAN - AREA B - MECHANICAL

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: M3.02

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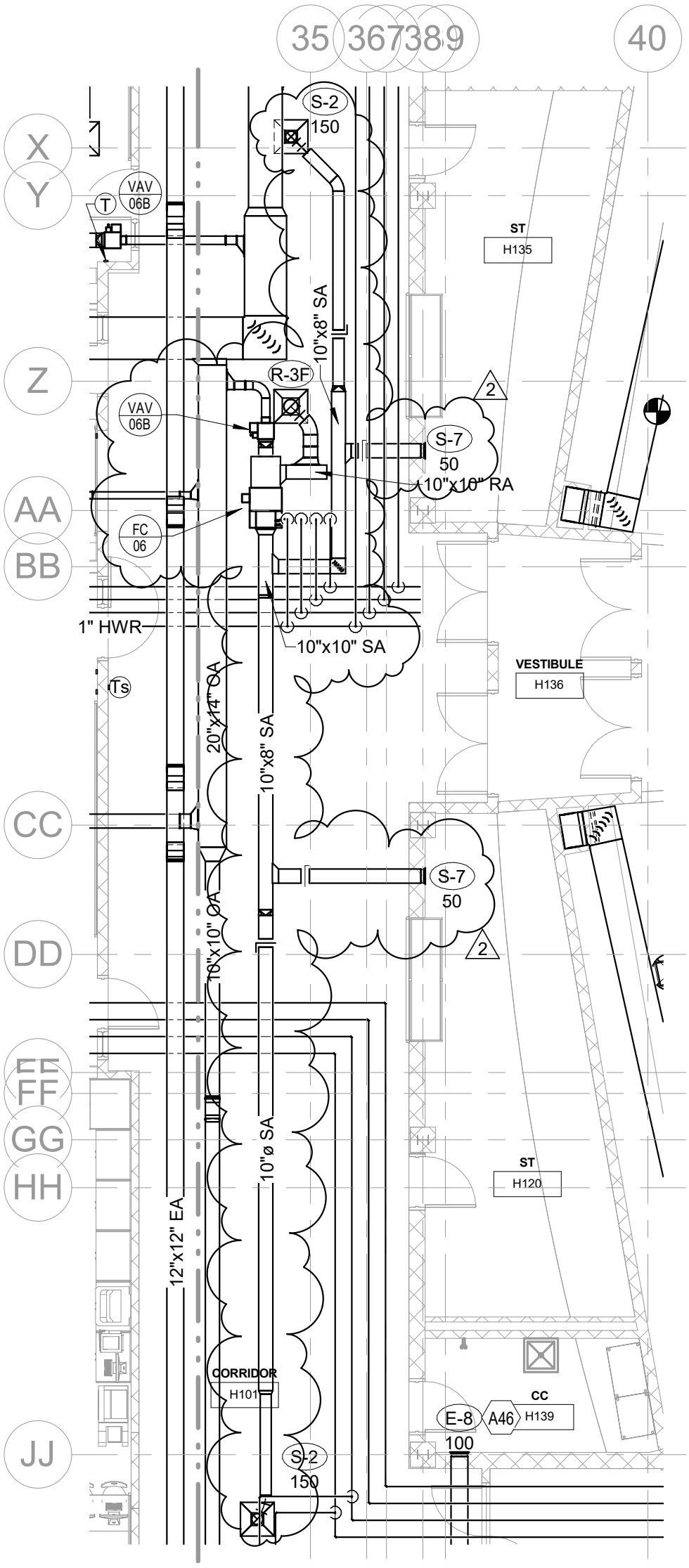
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: 1/8" = 1'-0"
ADDENDUM: 02
DATE: 03/06/20

ITEM:

DIFFUSER TYPE - CAFETERIA COMMONS B112

AD-M10



1 / M3.08 FIRST FLOOR PLAN - AREA H - MECHANICAL

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

ONLY INFORMATION CLOUDED HAS CHANGED. SOME INFORMATION HAS BEEN OMITTED FOR CLARITY ONLY. THIS DRAWING SHOULD BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS.

REF SHT NO.: M3.08

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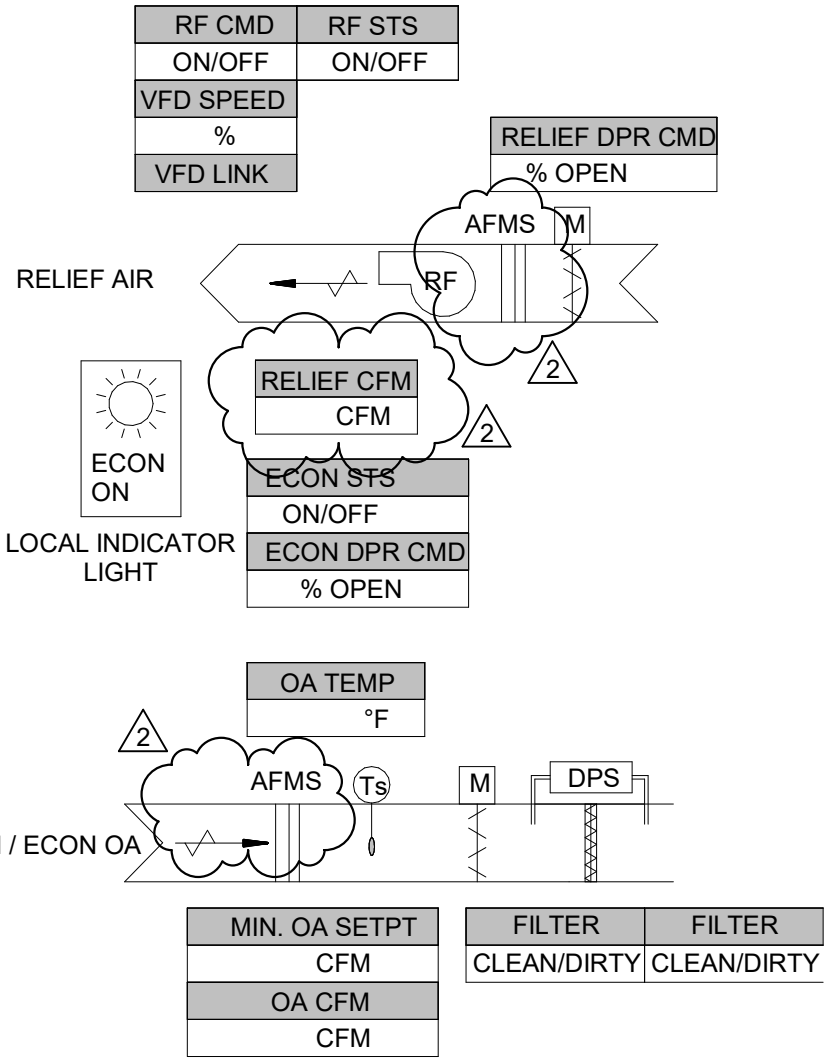
HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: 1/8" = 1'-0"
ADDENDUM: 02
DATE: 03/06/20

ITEM:

FAN COIL - CORRIDOR H101

AD-M11



MULTIZONE VAV AIR HANDLING UNITS

(AHU-4, 5)

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REF SHT NO.: M6.09

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HAMMOND HIGH SCHOOL
RENOVATION AND ADDITION

SCALE: 12" = 1'-0"
ADDENDUM: 02
DATE: 03/06/20

ITEM:

CONTROLS SCHEMATIC - MULTIZONE AHU'S

AD-M12

SECTION 07816 - INTUMESCENT FIREPROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes mastic and intumescent fire-resistive coatings (MIFRC).

B. Related Requirements:

1. Section 051200 "Structural Steel Framing".
2. Section 053100 “Steel Decking”

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Review products, design ratings, restrained and unrestrained conditions, thicknesses, and other performance requirements.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Structural framing plans indicating the following:

1. Extent of fireproofing for each construction and fire-resistance rating.
2. Applicable fire-resistance design designations of a qualified testing and inspecting agency acceptable to authorities having jurisdiction.
3. Minimum fireproofing thicknesses needed to achieve required fire-resistance rating of each structural component and assembly.
4. Treatment of fireproofing after application.

C. Samples: For each exposed product and for each color and texture specified, 4 inches square in size.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and testing agency.

B. Product Certificates: For each type of fireproofing.

C. Evaluation Reports: For fireproofing, from ICC-ES.

D. Field quality-control reports.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: A firm or individual certified, licensed, or otherwise qualified by fireproofing manufacturer as experienced and with sufficient trained staff to install manufacturer's products according to specified requirements.

B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and to set quality standards for materials and execution.

1. Mockup may be performed on a structural member inside the building. Consult with A/E and CM regarding the selected member prior to commencing work.
2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 FIELD CONDITIONS

A. Environmental Limitations: Do not apply fireproofing when ambient or substrate temperature is 50 deg F or lower unless temporary protection and heat are provided to maintain temperature at or above this level for 24 hours before, during, and for 24 hours after product application.

B. Ventilation: Ventilate building spaces during and after application of fireproofing, providing complete air exchanges according to manufacturer's written instructions. Use natural means or, if they are inadequate, forced-air circulation until fireproofing dries thoroughly.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. Assemblies: Provide fireproofing, including auxiliary materials, according to requirements of each fire-resistance design and manufacturer's written instructions.

B. Source Limitations: Obtain fireproofing from single source.

C. Fire-Resistance Design: Indicated on Drawings, tested according to ASTM E 119 or UL 263 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Steel members are to be considered unrestrained unless specifically noted otherwise.

D. VOC Content: Products shall comply with VOC content limits of authorities having jurisdiction, and the following VOC limits when calculated according to 40 CFR 59, Subpart D (EPA Method 24):

1. Flat Paints and Coatings: 50 g/L.
2. Nonflat Paints and Coatings: 150 g/L.
3. Primers, Sealers, and Undercoaters: 200 g/L.

4. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L.
5. Fireproofing Exterior Coatings: 350 g/L.

E. Low-Emitting Materials: Fireproofing used within the weatherproofing system shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

F. Asbestos: Provide products containing no detectable asbestos.

2.2 MASTIC AND INTUMESCENT FIRE-RESISTIVE COATINGS

A. MIFRC: Manufacturer's standard, factory-mixed formulation or factory-mixed, multicomponent system consisting of intumescent base coat and topcoat, and complying with indicated fire-resistance design.

1. Products: Subject to compliance with requirements, provide the following:

   a. WB 5 by CAFCO / Isolatek (Basis of design);

   b. Or equivalent by the following manufacturers
      i) Albi Manufacturing, ;
      ii) Carboline
      iii) International Paint Limited;

2. Application: Designated for “conditioned interior space purpose" use by a qualified testing agency acceptable to authorities having jurisdiction.
3. Thickness: As required for fire-resistance design indicated, measured according to requirements of fire-resistance design.
4. Finish: As selected by Architect from manufacturer's standard finishes.

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

2.3 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that are compatible with fireproofing and substrates and are approved by UL or another testing and inspecting agency acceptable to authorities having jurisdiction for use in fire-resistance designs indicated.

B. Substrate Primers: Primers approved by fireproofing manufacturer and complying with required fire-resistance design by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

C. Reinforcing Fabric: Glass- or carbon-fiber fabric of type, weight, and form required to comply with fire-resistance designs indicated; approved and provided by fireproofing manufacturer.

D. Reinforcing Mesh: Metallic mesh reinforcement of type, weight, and form required to comply with fire-resistance design indicated; approved and provided by fireproofing manufacturer. Include pins and attachment.

E. Topcoat: Suitable for application over applied fireproofing; of type recommended in writing by fireproofing manufacturer for each fire-resistance design.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrates and other conditions affecting performance of the Work and according to each fire-resistance design. Verify compliance with the following:

1. Substrates are free of dirt, oil, grease, release agents, rolling compounds, mill scale, loose scale, incompatible primers, paints, and encapsulants, or other foreign substances capable of impairing bond of fireproofing with substrates under conditions of normal use or fire exposure.
2. Objects penetrating fireproofing, including clips, hangers, support sleeves, and similar items, are securely attached to substrates.
3. Substrates receiving fireproofing are not obstructed by ducts, piping, equipment, or other suspended construction that will interfere with fireproofing application.

B. Conduct tests according to fireproofing manufacturer's written recommendations to verify that substrates are free of substances capable of interfering with bond.

C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

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

3.2 PREPARATION

A. Cover other work subject to damage from fallout or overspray of fireproofing materials during application.

B. Clean substrates of substances that could impair bond of fireproofing.

C. Prime substrates where included in fire-resistance design and where recommended in writing by fireproofing manufacturer unless compatible shop primer has been applied and is in satisfactory condition to receive fireproofing.

D. For applications visible on completion of Project, repair substrates to remove surface imperfections that could affect uniformity of texture and thickness in finished surface of fireproofing. Remove minor projections and fill voids that would telegraph through fire-resistive products after application.

3.3 APPLICATION

A. Construct fireproofing assemblies that are identical to fire-resistance design indicated and products as specified, tested, and substantiated by test reports; for thickness, primers, topcoats, finishing, and other materials and procedures affecting fireproofing work.

B. Comply with fireproofing manufacturer's written instructions for mixing materials, application procedures, and types of equipment used to mix, convey, and apply fireproofing; as applicable to particular conditions of installation and as required to achieve fire-resistance ratings indicated.

C. Coordinate application of fireproofing with other construction to minimize need to cut or remove fireproofing.

1. Do not begin applying fireproofing until clips, hangers, supports, sleeves, and other items penetrating fireproofing are in place.
2. Defer installing ducts, piping, and other items that would interfere with applying fireproofing until application of fireproofing is completed.

D. Install auxiliary materials as required, as detailed, and according to fire-resistance design and fireproofing manufacturer's written recommendations for conditions of exposure and intended use. For auxiliary materials, use attachment and anchorage devices of type recommended in writing by fireproofing manufacturer.

E. Spray apply fireproofing to maximum extent possible. Following the spraying operation in each area, complete the coverage by trowel application or other placement method recommended in writing by fireproofing manufacturer.

F. Extend fireproofing in full thickness over entire area of each substrate to be protected.

G. Install body of fireproofing in a single course unless otherwise recommended in writing by fireproofing manufacturer.

H. Provide a uniform finish complying with description indicated for each type of fireproofing material and matching finish approved for required mockups.

I. Cure fireproofing according to fireproofing manufacturer's written recommendations.

J. Do not install enclosing or concealing construction until after fireproofing has been applied, inspected, and tested and corrections have been made to deficient applications.

K. Finishes: Where indicated, apply fireproofing to produce the following finishes:

1. Manufacturer's Standard Finishes: Finish according to manufacturer's written instructions for each finish selected.
2. Spray-Textured Finish: Finish left as spray applied with no further treatment.
3. Rolled, Spray-Textured Finish: Even finish produced by rolling spray-applied finish with a damp paint roller to remove drippings and excessive roughness.
4. Skip-Troweled Finish: Even leveled surface produced by troweling spray-applied finish to smooth out the texture and neaten edges.

3.4 FIELD QUALITY CONTROL

A. Special Inspections: Engage a qualified special inspector to perform the following special inspections:

1. Test and inspect as required by the IBC, 1704.11.

B. Perform the tests and inspections of completed Work in successive stages. Do not proceed with application of fireproofing for the next area until test results for previously completed applications of fireproofing show compliance with requirements. Tested values must equal or exceed values as specified and as indicated and required for approved fire-resistance design.

C. Fireproofing will be considered defective if it does not pass tests and inspections.

1. Remove and replace fireproofing that does not pass tests and inspections, and retest.
2. Apply additional fireproofing, per manufacturer's written instructions, where test results indicate insufficient thickness, and retest.

D. Prepare test and inspection reports.

3.5 SCHEDULE

A. Cafeteria C101 is a 1-hr separated assembly occupancy. The following columns, and all floor framing/floor deck above the Cafeteria is to be 1-hour rated:

1.	VV-5	VV-7	VV-10	VV-13
2.	WW-5	WW-7	WW-10	WW-13
3.	XX-5	XX-7	XX-10	XX-13
4.				YY-13
5.	DDD-5	DDD-6.1	DDD-7.1	DDD-10

3.6 CLEANING, PROTECTING, AND REPAIRING

A. Cleaning: Immediately after completing spraying operations in each containable area of Project, remove material overspray and fallout from surfaces of other construction and clean exposed surfaces to remove evidence of soiling.

B. Protect fireproofing, according to advice of manufacturer and Installer, from damage resulting from construction operations or other causes, so fireproofing will be without damage or deterioration at time of Substantial Completion.

C. As installation of other construction proceeds, inspect fireproofing and repair damaged areas and fireproofing removed due to work of other trades.

D. Repair fireproofing damaged by other work before concealing it with other construction.

E. Repair fireproofing by reapplying it using same method as original installation or using manufacturer's recommended trowel-applied product.

END OF SECTION 078123

J. VINTON SCHAFER & SONS, INC.
1309-Q Continental Drive
Abingdon, MD 21009
P 410.335.3000 | **F** 410.335.6529

Hammond HS Pre-Bid Meeting Minutes

Meeting Type: Pre-Bid Meeting
Meeting Number: Meeting 001
Date: Wednesday, March 3, 2020
Location: Mount View Middle School
Author: Tom Kraft
Next Meeting: N/A

Attendees
See attendance sheet in Addenda

New Business

001 - General Bid items

- J. Vinton Schafer (JVS) is under contract with the Howard County Public School System (HCPSS) for Construction Management Agency services for the Hammond High School Renovation and Addition Project.
- All Prime Contracts will be held by HCPSS.
- All Sub Contractors and/or vendors shall bid to potential Prime Contract bidders.
- Bid documents and addenda can be downloaded from JVS's website. Contact Tom Kraft for access. All Questions shall be in writing to Tom Kraft at JVS. tomk@jvschafer.com or 410-335-3000.

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002 - Project Overview

- The project will be phased and occupied.
- The overall project scope is inclusive of a full renovation and addition of the existing school.
  - 10 phases
  - Approximately 3 year schedule
  - Site package inclusive of football stadium
  - Approx. 100,000 sqft of addition
  - Total project is approx. 240,000 sqft
- Take special notice of work that NEEDS to occur this summer for phasing – inclusive of sitework needs. Equipment and materials will need to be expedited in order to complete necessary work this summer. Expedited costs shall be included in base bid.
- The project has prevailing wage/certified payroll requirements
- The project has thirteen Prime Contractor packages (1A, 2A, 3A, 4A, 5A, 7A, 8A, 9A, 9E, 11A, 12A, 15A and 16A). Bidders must bid on the package as a whole. No qualifications or exclusions will be accepted.
- This is a LEED Project.
- Contractors shall plan to provide manpower for the project accordingly to complete the work within the schedule constraints. In the event additional hours/shifts are needed this will be coordinated with the Owner and Construction Manager at no cost to the Owner. Summer schedules shall have 6-day work weeks from ALL Prime Contractors. Work performed in limited access areas (landlocked) shall be worked on after school hours.
- HCPSS advised that all HCPSS and State rules and regulations would apply to this project for working on an occupied school site.
- Bidders should review the schedule included in the bid documents and plan resources accordingly to accommodate the schedule.

- There may be additional site visit(s). These will be scheduled and posted in forthcoming addenda.

003 Procurement Items

- HCPSS reminded all bidders that they are bidding on the complete set of project documents. Bidders are reminded to download the complete set of project documents from JVS' website including any addenda posted.
- Alternates were reviewed.
- HCPSS reminded that any discussions would not be binding unless it is in writing in addenda. Do not contact HCPSS or any members of the design team to discuss the project.
- HCPSS reviewed all purchasing/bidding requirements.
- HCPSS reviewed all MBE goals. All bidders are encouraged to thoroughly review the MBE documentation requirements.
- HCPSS advised that all bid proposals must be on HCPSS' proposal form delivered in a sealed envelope to the purchasing department at their modular building located behind the central office. NO ELECTRONIC BIDS WILL BE ACCEPTED.
- All addenda must be acknowledged in the bid proposal.
- Bids will be publicly opened.
- HCPSS' Standard Form of Agreement, insurance requirements, P&P bonds, Bid Bond, General Conditions and MBE requirements/forms are included in the bid documents and were reviewed.
- HCPSS reviewed the criminal background check document.
- Prime Contractors shall be responsible for performing criminal background checks on all employees working on site. The costs of the background checks shall be borne by the Prime Contractor. Background checks from other jurisdictions will not be accepted.

The above minutes represent the author's interpretation of the Pointers Run Elementary School Pre-Bid Meeting. All meeting minute items are considered correct and accurate unless the author is notified in writing within three (3) days.

Signature: Tom Kraft **Date: 3/5/2020**

Howard County Public Schools
Bid No. 034.20.B4
HAMMOND HIGH SCHOOL RENOVATION AND ADDITION

PRE-BID MEETING ATTENDANCE SHEET
Date/Time: 03/4/20 3:30 PM

Please print clearly and complete all of the requested information. If your Business Card has all of this information you may simply staple it over an empty box. Please do not cover up other vendors cards.

Company Name:	
Contact Name:	
Mailing Address:	
City, State Zip Code:	
Telephone Number:	
Fax Number:	
Email Address	

artitech BUILDING DESIGN

Arti Sahebi
Mechanical Engineer
Project Consultant,
Director & Manager

Phone: (240) 477-4596
Phone: (301) 674-9991
arti@artitechhomes.com
www.artitechhomes.com
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Company Name:	LOCUST LANE FARMS
Contact Name:	STEVE ORANGE
Mailing Address:	P.O. Box 2185
City, State Zip Code:	UPPER MARLBORO MD 20773
Telephone Number:	301-574-5401
Fax Number:	
Email Address	estimating@locustlane.com

Company Name:	BARCO ENTERPRISES INC
Contact Name:	BRETT HARRISON
Mailing Address:	11200 Pulaski Hwy
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Fax Number:	410 335 0790
Email Address	BRET@BARCOENT.COM

BARCO ENTERPRISES, INC.
11200 PULASKI HWY. (P.O. BOX 0074)
WHITE MARSH, MD 21162
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CELL: 443-324-3393
BRET@BARCOENT.COM

Brett Harrison
Project Manager

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www.barcoent.com

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J. VINTON SCHAFER

TOM KRAFT, CCCA, LEED AP BD+C
Project Executive

J. Vinton Schafer & Sons, Inc.
1309-Q Continental Drive
Abingdon, MD 21009

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C 443.829.2350
F 410.335.6529
tkraft@quandel.com

quandel.com/schafer

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mark.kreis@strayercontracting.com

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Cell: (443) 852-4320

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Technical Design & Estimating

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Estimating

Pleasants

Pleasants Companies, LLC
24012 Frederick Road, Suite 200
Clarksburg, MD 20871

(301) 428-0800
Fax: (240) 428-3922
estimating@pleasants.org

Company Name:	
Contact Name:	
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MCN BUILD
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HOFFBERGER MOVING SERVICES LLC
Courtney Carr / Account Manager
ccarr@hmsmovers.com
1406 Shoemaker Road / Baltimore, MD 21209
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24hr. Emergency Service 301-861-0009

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Brandon Ward
Project Manager/Estimator

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Project Manager

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Email Address	lpappas@ruffroofers.com

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Lee Pappas
Estimator

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Email: lpappas@ruffroofers.com

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Fax Number:	703-404-8940
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Telephone Number:	
Fax Number:	
Email Address	MLVSTIG@MONTAGEINC.COM

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Project Manager

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Fax Number:	443-546-4
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Fax Number:	
Email Address	dcush@coleroofin

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Fax Number:	
Email Address	paulkiem@kimengi

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MBE/DBE

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Utility Locating
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Tel: (410) 501-3669

Beltsville, MD · Baltimore, MD · Fairfax, VA

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Fax Number:	
Email Address	ade.olujobi@

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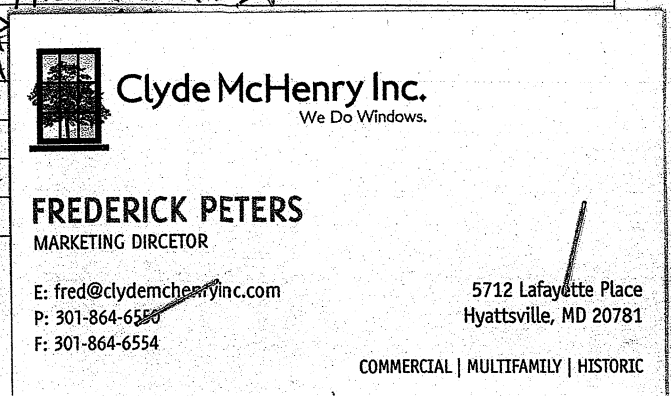
Telephone Number:	410-245-1446
Fax Number:	
Email Address	Jae.um@yeshvac.co

Company Name:	Lanier Electronics Group, Inc
Contact Name:	
Mailing Address:	
City, State Zip Code:	
Telephone Number:	
Fax Number:	
Email Address	

Company Name:	
Contact Name:	
Mailing Address:	
City, State Zip Code:	
Telephone Number:	
Fax Number:	
Email Address	

Company Name:	CLYDE McHENRY, INC
Contact Name:	FRED P
Mailing Address:	5712 LA
City, State Zip Code:	20781
Telephone Number:	301-864-6550
Fax Number:	301-864-6554
Email Address	



Howard County Public Schools
Bid No. 034.20.B4
HAMMOND HIGH SCHOOL RENOVATION AND ADDITION

PRE-BID MEETING ATTENDANCE SHEET
Date/Time: 03/4/20 3:30 PM

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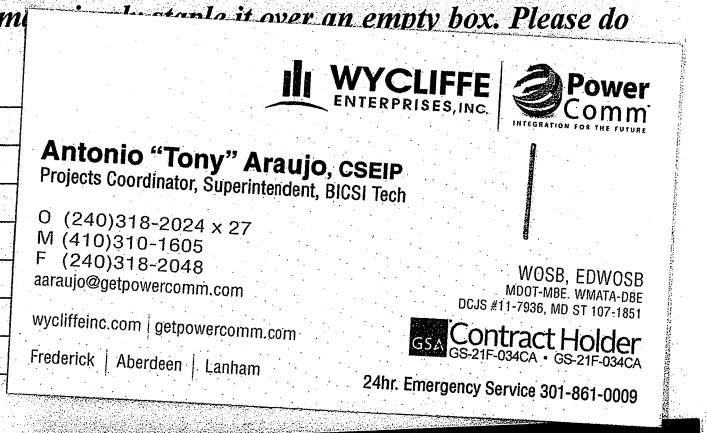

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Company Name:	
Contact Name:	
Mailing Address:	
City, State Zip Code:	
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Company Name:	
Contact Name:	Graniux
Mailing Address:	7606 Lindbergh Dr.
City, State Zip Code:	Gaithersburg MD
Telephone Number:	
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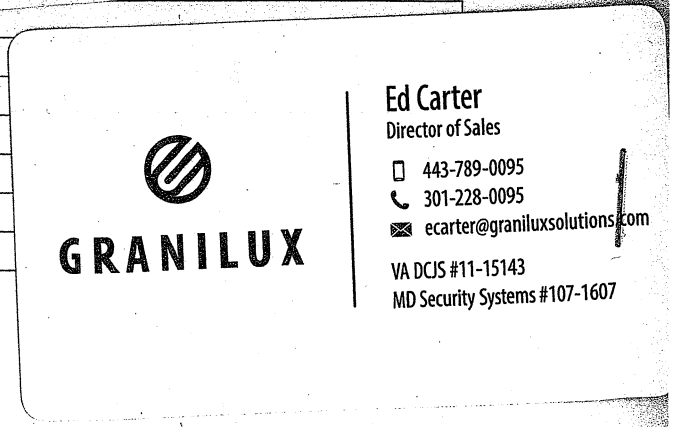

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Company Name:	Homewood G.C.
Contact Name:	Brook Behner
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Company Name:	
Contact Name:	
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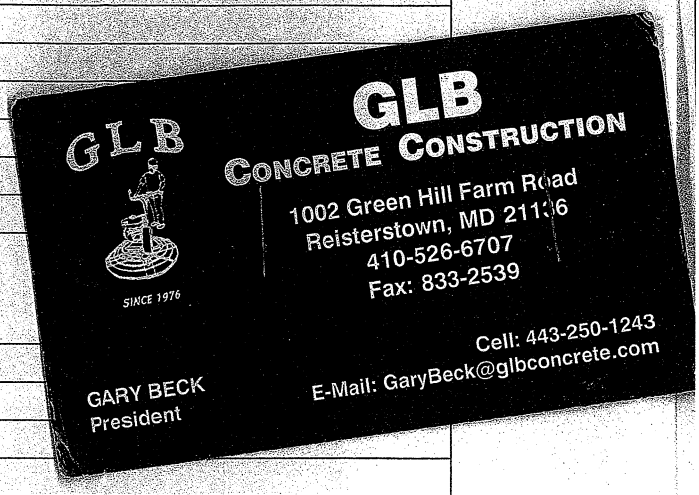

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Company Name:	
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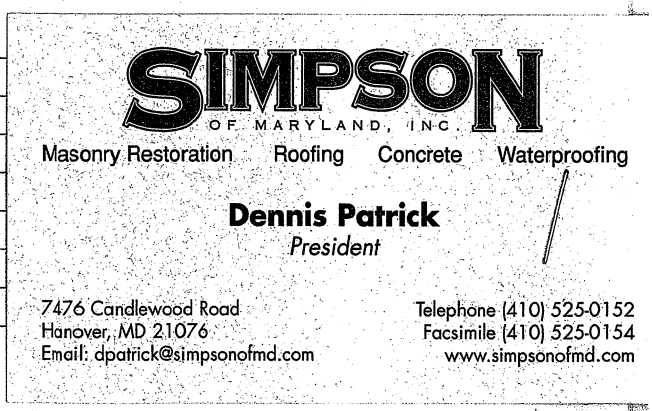

Company Name:	Caton Communications Group
Contact Name:	Mark Tuffer
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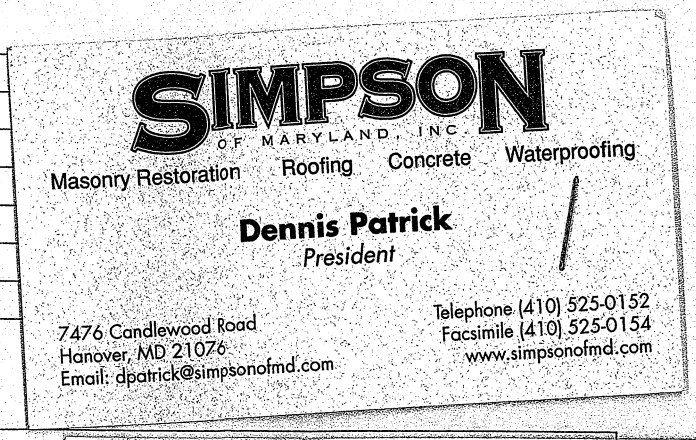
Contact Name:	
Mailing Address:	
City, State Zip Code:	
Telephone Number:	
Fax Number:	
Email Address	



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Fax Number:	
Email Address	

Company Name:	
Contact Name:	
Mailing Address:	
City, State Zip Code:	
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Email Address	

Company Name:	
Contact Name:	
Mailing Address:	
City, State Zip Code:	
Telephone Number:	
Fax Number:	
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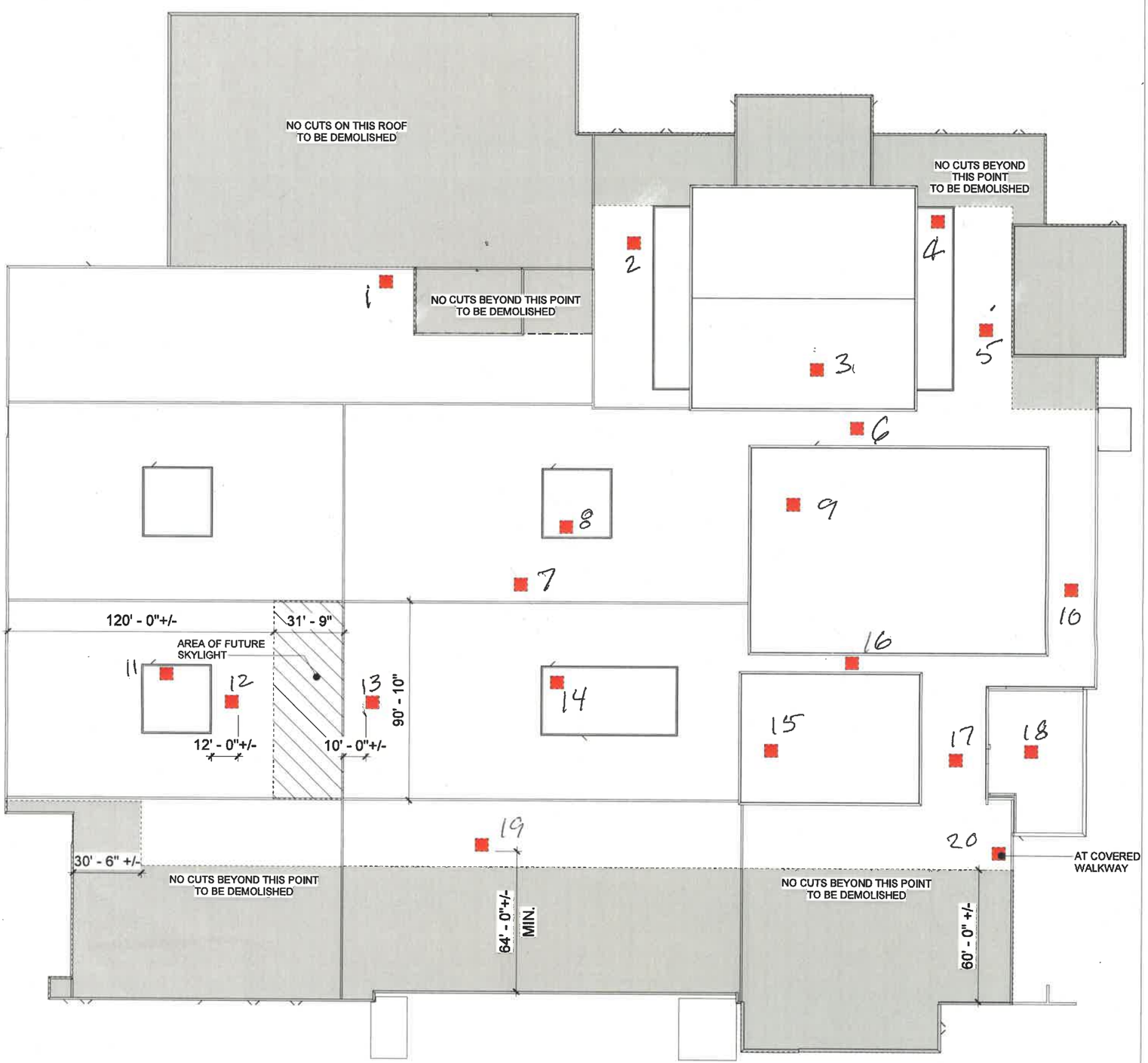
SURVEY OF EXISTING ROOF COMPOSITION



GENERAL NOTES:
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- LOCATIONS OF CUTS ARE APPROXIMATE, UNLESS OTHERWISE NOTED.
- INTENTION TO TEST CUT SOME PENTHOUSES AND ALL HIGH VOLUME SPACES.

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		DRAWN BY: RC
9211 CORPORATE BLVD, SUITE 340 ROCKVILLE, MD 20850 301-770-0177(P) 301-330-3224(F)	ROOF TEST CUT LOCATIONS	CHECKED BY: DF
		SK.1

Aerobiology Laboratory Associates, Incorporated
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Lab Use:

ELITE — AZ, CA, CO, FL, GA, IL, VA, NJ

NVLAP — AZ, CA, CO, VA

VA - 102977 AZ - 210229
CA - 218951 CO - 192683
NJ - 102747 GA - 163063
FL - 228303 IL - 232279

Aerobiology Client	DAVIDSON & ASSOC				
Field Contact	ROBERT D SPLAIN, JR	**Collected By/Date:** 4/16/19		**Relinquished By/Date:** 5/20/19	
Reporting Address	8120 WOODMONT AVE #450	Relinquished By/Date:		Received By/Date:	
Billing Address	Bethesda MD 20814	Sampler Type	Andersen SAS	SampleAire AeroTrap	Other BioCulture
Phone/Fax	240-380-2022	**PO#/Job#:**	R2018.066		
Reporting Email (s)	rsplain@davidsonArchitects.com	**Project Name:**	HAMMOND HIGH		
Routine ☒	24 Hour ☐ Same Day ☐ 4 Hour ☐ 2 Hour ☐	**Notes:**			
SAMPLING LOCATION ZIP CODE	21046	**CC Info:**			

	Sample No.	Test Code	Sample Location	Total Volume/Area
1	1	3002	#1 ON PLAN	15 ci
2	2	3002	# 2 ON PLAN	15 ci
3	3	3002	# 4 ON PLAN	16 ci
4	4	3002	# 11 ON PLAN	15 ci
5	5	3002	#5 ON PLAN	22 ci
6	6	3002	#6 ON PLAN	16 ci
7	7	3002	#13 ON PLAN	16 ci
8	8	3002	#8 ON PLAN	15 ci
9	9	3002	#9 ON PLAN	16 ci
10	10	3002	#10 ON PLAN	16 ci
11	11	3002	# 15 ON PLAIN	16 ci
12	12	3002	# 17 ON PLAN	16 ci
13	13	3002	# 18 ON PLAN	20 ci
14	14	3002	#19 ON PLAN	16 ci
15	15	3002	# 20 ON PLAN	15 ci

1054	Direct, Non-viable Spore Trap	1015	Culture - WATER Legionella
1051	Direct, Qualitative- **Swab/Tape**	1017	Culture - SWAB Legionella
1050	Direct, Qualitative- **Bulk**	1010	WATER - Potable - E. coli/total coliforms
1005	AIR Culture - Bacterial Count w/ ID's	1012	SWAB - E. coli/total coliforms
1030	AIR Culture - Fungal Count w/ ID's	1028	SWAB - Sewage Screen (E. coli/Entero/fecal coliforms)
1006	SWAB Culture - Bacterial Count w/ ID's	2056	WATER - Heterotrophic Plate Count
1031	SWAB Culture - Fungal Count w/ ID's	3001	ASBESTOS - Point count
1008	BULK Culture - Bacterial Count w/ ID's	→ 3002	ASBESTOS - PLM Analysis
1033	BULK Culture - Fungal Count w/ ID's	3003	ASBESTOS - Particle characterization
1007	WATER Culture - Bacterial Count w/ID's	3004	ASBESTOS - PCM Analysis

HAMMOND High School 4/16/19

1) 1/2" WOOD FIBER Board - 2 1/2" ISO Hot ROOF Slag
1/2" Fiberglass " "

2) 1/2" FIBER GLASS - 1" ISO - 1 1/2 ISO Hot ROOF with Torch on To
" " " "

3) 1/2" WOOD FIBER - 2 1/2 ISO - HOT ROOF Slag (Jip DECK)
1" " " " "

4) 1" FIBER BOARD - 2 1/2 ISO HOT ROOF Slag
" " "

5) 1/2" FIBER Glass - 1 1/2 ISO - 3" ISO HOT ROOF TORCH ON TOP
" " " "

6) 1" FIBER BOARD - 2 1/2 ISO HOT ROOF Torch on Top
✓ ✓ ✓

7) 1/2" FIBER GLASS - 2 1/2 ISO HOT ROOF Slag
✓ ✓ ✓

8) 1/2" FIBER GLASS - 2 1/2" ISO HOT ROOF SLAG
✓ ✓ ✓

9) 1" FIBER BOARD - 2 1/2" ISO HOT ROOF Slag
✓ ✓ ✓

10) 1" FIBER Board - 2 1/2 ISO HOT ROOF Torch on Top.
✓ ✓ ✓

11) 1/2 FIBER BOARD - 2 1/2" ISO HOT ROOF Slag
1/2" fiberglass " "

12) 1/2 FIBER GLASS - 2 1/2 ISO HOT ROOF Slag

13) 2-(1/2 inches pcs FIBER BOARD) - 2 1/2 ISO Hot ROOF Slag
2 - 1/2 + 1" " "

14 - 2 (1/2 pce Fiber Bd) " "

✓ 15) 1" FIBER BOARD - 2½ ISO - 4" screw/plate HOT ROOF SLAG
" "

× ✓ 16) 2pcs OF ½" WOOD FIBER - 2½" ISO HOT ROOF TORCH ON TOP
WOOD FIBER INSULATION WAS WET.

✓ 17) 2 pcs OF ½" WOOD FIBER - 2½ ISO HOT ROOF TORCH ON TOP
WOOD FIBER INSULATION WAS WET

18) ½ FIBER BOARD - 2" ISO - 2" ISO HOT ROOF / TORCH / TPO ON TOP
✓ ✓ ✓ ✓ ✓

✓ 19) 2pcs ½" FIBER BOARD - 2½ ISO HOT ROOF SLAG
✓

✓ 20) ½" FIBER BOARD - 2½ ISO HOT ROOF SLAG.
2 pc ½" Fiber bd
ALL METAL AT TEST CUT AREAS LOOKED GOOD.
EVERTHING WAS DRY MINUS AREAS 16 AND 17

CREW:
BRIAN
JOSE
MARVIN
FELIX

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19 020404
19020404

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NVLAP
AZ, CA, CO, VA

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Aerobiology Client	DAVIDSON & ASSOC				Collected By/Date: 4/16/19	Relinquished By/Date: 5/20/19	
Field Contact	ROBERT D SPLAIN, JR				Relinquished By/Date:	Received By/Date: BS 5-20-19	
Reporting Address	8120 WOODMONT AVE #450				Sampler Type: Andersen ___ SAS ___	SampleAire ___ AeroTrap ___	Other ___ BioCulture ___
Billing Address	Bethesda MD 20814				PO#/Job#: R2018.066		
Phone/Fax	240-380-2022				Project Name: HAMMOND HIGH		
Reporting Email (s)	rsplain@davidsonArchitects.com				Notes:		
Routine ☒	24 Hour ☐	Same Day ☐	4 Hour ☐	2 Hour ☐			
SAMPLING LOCATION ZIP CODE	21046				CC Info:		

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15	15	3002	# 20 ON PLAN	15 ci

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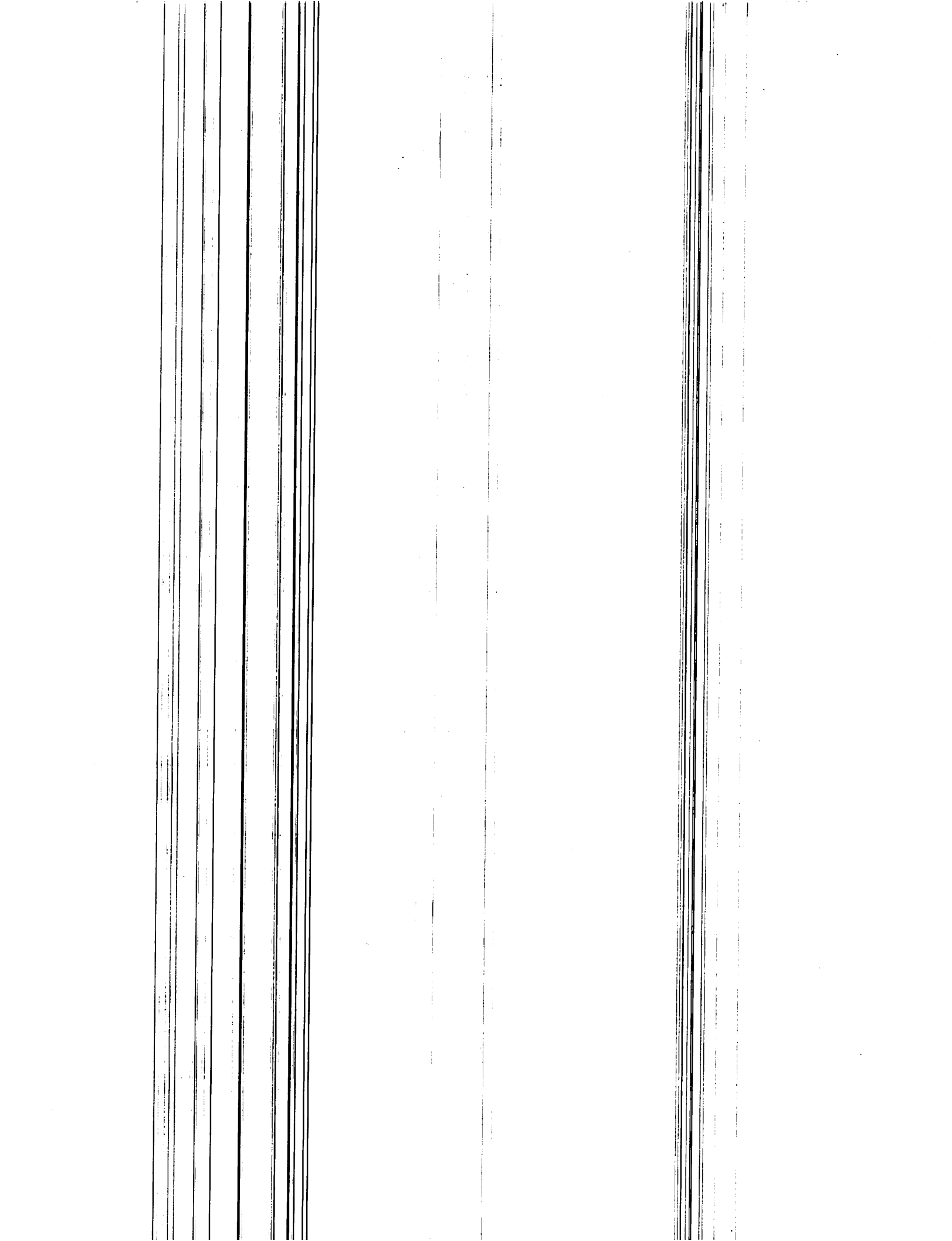
1007	WATER Culture - Bacterial Count w/ID's	3004	ASBESTOS - PCM Analysis



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Certificate of Analysis

Davidson & Associates
8120 Woodmont Ave #450
Bethesda, MD 20814
Attn: Robert D Splain
Client Sample Location: R2018.066 Hammond High

NVLAP®
TESTING
NVLAP LAB CODE 200829-0

Date Collected: 04/16/19
Date Received: 05/20/19
Date Analyzed: 05/24/19
Date Reported: 05/28/19
Project ID: 19020404

Test Requested: **3002, Asbestos in Bulk Samples**
Method: Polarized Light Microscopy (PLM), Interim Method for Asbestos in Bulk Insulation; EPA 600/M4-82-020. Method for Asbestos in Bulk Building Material: EPA 600/R-93/116

Sample Identification		Physical Description of Sample; Additional Comments	Homo-geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
1	19020404-001a	Black Tar	Yes	1	5	ND1	ND1	CELL (Trace)	> 99	T, B, OP
	19020404-001b	Black Tarry Semi-Fibrous Material	Yes	1	20	ND1	ND1	FBG (15)	85	T, B, OP
	19020404-001c	Yellow Fibrous Material	Yes	1	25	ND1	ND1	MW (97)	3	OP
	19020404-001d	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (45) FBG (5)	50	T, B, OP
	19020404-001e	Yellow Foam	Yes	1	40	ND1	ND1		100	OP, Foam
	19020404-001f	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (65) FBG (20)	15	OP

Cathleen Piccione
Laboratory Analyst

Cathleen Piccione
Technical Supervisor

A = Amosite
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CELL = Cellulose
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NVLAP LAB CODE 200829-0

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Sample Identification		Physical Description of Sample; Additional Comments	Homo-geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
2	19020404-002a	Black Tar with Stones	Yes	1	2	ND1	ND1		100	Q, T, C, B, OP
	19020404-002b	Black Tarry Semi-Fibrous Material	Yes	1	20	ND1	ND1	FBG (15)	85	T, B, OP
	19020404-002c	Yellow Fibrous Material	Yes	1	20	ND1	ND1	MW (97)	3	OP
	19020404-002d	Black Tarry Fibrous Material	Yes	1	2	ND1	ND1	FBG (5) CELL (50)	45	T, B, OP
	19020404-002e	Yellow Foam	Yes	1	20	ND1	ND1		100	OP, Foam
	19020404-002f	Black Fibrous Material	Yes	1	2	ND1	ND1	CELL (75) FBG (10)	15	OP
	19020404-002g	Yellow Foam	Yes	1	20	ND1	ND1		100	OP, Foam
	19020404-002h	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (75) FBG (10)	15	OP

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Date Received: 05/20/19
Date Analyzed: 05/24/19
Date Reported: 05/28/19
Project ID: 19020404

Test Requested: **3002, Asbestos in Bulk Samples**
Method: Polarized Light Microscopy (PLM), Interim Method for Asbestos in Bulk Insulation; EPA 600/M4-82-020. Method for Asbestos in Bulk Building Material: EPA 600/R-93/116

Sample Identification		Physical Description of Sample; Additional Comments	Homo-geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
3	19020404-003a	Black Tarry Semi-Fibrous Material	Yes	1	15	ND1	ND1	FBG (15) CELL (5)	80	T, B, OP
	19020404-003b	Brown Fibrous Material	Yes	1	30	ND1	ND1	CELL (80)	20	T, B, OP
	19020404-003c	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (45)	55	T, B, OP
	19020404-003d	Yellow Foam	Yes	1	45	ND1	ND1		100	OP, Foam
	19020404-003e	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (70) FBG (15)	15	OP
4	19020404-004a	Black Tarry Semi-Fibrous Material	Yes	1	15	ND1	ND1	CELL (15) FBG (15)	70	T, B, OP
	19020404-004b	Yellow Fibrous Material	Yes	1	20	ND1	ND1	MW (97)	3	OP
	19020404-004c	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (45) FBG (5)	50	T, B, OP
	19020404-004d	Yellow Foam	Yes	1	55	ND1	ND1		100	OP, Foam
	19020404-004e	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (70) FBG (15)	15	OP

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Certificate of Analysis

Davidson & Associates
8120 Woodmont Ave #450
Bethesda, MD 20814
Attn: Robert D Splain
Client Sample Location: R2018.066 Hammond High

NVLAP®
TESTING
NVLAP LAB CODE 200829-0

Date Collected: 04/16/19
Date Received: 05/20/19
Date Analyzed: 05/24/19
Date Reported: 05/28/19
Project ID: 19020404

Test Requested: **3002, Asbestos in Bulk Samples**
Method: Polarized Light Microscopy (PLM), Interim Method for Asbestos in Bulk Insulation; EPA 600/M4-82-020. Method for Asbestos in Bulk Building Material: EPA 600/R-93/116

Sample Identification		Physical Description of Sample; Additional Comments	Homo-geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
5	19020404-005a	Black Tar with Stones	Yes	1	5	ND1	ND1	CELL (Trace)	> 99	Q, T, C, B, OP
	19020404-005b	Black Tarry Semi-Fibrous Material	Yes	1	20	ND1	ND1	FBG (20)	80	T, B, OP
	19020404-005c	Yellow Fibrous Material	Yes	1	15	ND1	ND1	MW (97)	3	OP
	19020404-005d	Black Tarry Fibrous Material	Yes	1	2	ND1	ND1	CELL (50)	50	T, B, OP
	19020404-005e	Yellow Foam	Yes	1	20	ND1	ND1		100	OP, Foam
	19020404-005f	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (65)	35	T, B, OP
	19020404-005g	Yellow Foam	Yes	1	25	ND1	ND1		100	OP, Foam
	19020404-005h	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (70) FBG (15)	15	OP

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Date Reported: 05/28/19
Project ID: 19020404

Test Requested: **3002, Asbestos in Bulk Samples**
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Sample Identification		Physical Description of Sample; Additional Comments	Homo-geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
6	19020404-006a	Black Tarry Fibrous Material with Stones	Yes	1	10	ND1	ND1	CELL (55)	45	Q, T, C, B, OP
	19020404-006b	Black Tarry Semi-Fibrous Material	Yes	1	15	ND1	ND1	CELL (10) FBG (15)	75	T, B, OP
	19020404-006c	Brown Fibrous Material	Yes	1	25	ND1	ND1	CELL (85)	15	OP
	19020404-006d	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (40)	60	T, B, OP
	19020404-006e	Yellow Foam	Yes	1	40	ND1	ND1		100	OP, Foam
	19020404-006f	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (70) FBG (15)	15	OP
7	19020404-007a	Black Tarry Semi-Fibrous Material	Yes	1	25	ND1	ND1	CELL (5) FBG (10)	85	T, B, OP
	19020404-007b	Brown Fibrous Material	Yes	1	25	ND1	ND1	CELL (85)	15	OP
	19020404-007c	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (55)	45	T, B, OP
	19020404-007d	Yellow Foam	Yes	1	45	ND1	ND1		100	OP, Foam

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NVLAP LAB CODE 200829-0

Date Collected: 04/16/19
Date Received: 05/20/19
Date Analyzed: 05/24/19
Date Reported: 05/28/19
Project ID: 19020404

Test Requested: **3002, Asbestos in Bulk Samples**
Method: Polarized Light Microscopy (PLM), Interim Method for Asbestos in Bulk Insulation; EPA 600/M4-82-020. Method for Asbestos in Bulk Building Material: EPA 600/R-93/116

Sample Identification		Physical Description of Sample; Additional Comments	Homo-geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
8	19020404-008a	Black Tarry Semi-Fibrous Material	Yes	1	20	ND1	ND1	FBG (15) CELL (5)	80	T, B, OP
	19020404-008b	Yellow Fibrous Material	Yes	1	25	ND1	ND1	MW (95)	5	OP
	19020404-008c	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (55) FBG (5)	40	T, B, OP
	19020404-008d	Yellow Foam	Yes	1	45	ND1	ND1		100	OP, Foam
	19020404-008e	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (70) FBG (15)	15	OP
9	19020404-009a	Black Tarry Semi-Fibrous Material	Yes	1	15	ND1	ND1	CELL (15) FBG (10)	75	T, B, OP
	19020404-009b	Brown Fibrous Material	Yes	1	20	ND1	ND1	CELL (90)	10	OP
	19020404-009c	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (50)	50	T, B, OP
	19020404-009d	Yellow Foam	Yes	1	55	ND1	ND1		100	OP, Foam
	19020404-009e	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (65) FBG (15)	20	OP

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Aerobiology Laboratory Associates, Incorporated
Expertise Since 1997

43760 Trade Center Place
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(877) 648-9150
www.aerobiology.net

Certificate of Analysis

Davidson & Associates
8120 Woodmont Ave #450
Bethesda, MD 20814
Attn: Robert D Splain
Client Sample Location: R2018.066 Hammond High

NVLAP®
TESTING
NVLAP LAB CODE 200829-0

Date Collected: 04/16/19
Date Received: 05/20/19
Date Analyzed: 05/24/19
Date Reported: 05/28/19
Project ID: 19020404

Test Requested: **3002, Asbestos in Bulk Samples**
Method: Polarized Light Microscopy (PLM), Interim Method for Asbestos in Bulk Insulation; EPA 600/M4-82-020. Method for Asbestos in Bulk Building Material: EPA 600/R-93/116

Sample Identification		Physical Description of Sample; Additional Comments	Homo-geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
10	19020404-010a	Black Tarry Semi-Fibrous Material with Stones	Yes	1	20	ND1	ND1	CELL (10) FBG (10)	80	T, B, OP
	19020404-010b	Brown Fibrous Material	Yes	1	20	ND1	ND1	CELL (90)	10	OP
	19020404-010c	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (65) FBG (10)	25	T, B, OP
	19020404-010d	Yellow Foam	Yes	1	50	ND1	ND1		100	OP, Foam
	19020404-010e	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (70) FBG (15)	15	OP
11	19020404-011a	Black Tarry Semi-Fibrous Material	Yes	1	20	ND1	ND1	FBG (15) CELL (10)	75	T, B, OP
	19020404-011b	Brown Fibrous Material	Yes	1	20	ND1	ND1	CELL (90)	10	OP
	19020404-011c	Yellow Foam	Yes	1	55	ND1	ND1		100	OP, Foam
	19020404-011d	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (70) FBG (15)	15	OP

Cathleen Piccione
Laboratory Analyst

Cathleen Piccione
Technical Supervisor

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Sample Identification		Physical Description of Sample; Additional Comments	Homo-geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
12	19020404-012a	Black Tarry Semi-Fibrous Material with Stones	Yes	1	10	ND1	ND1	SYN (20) CELL (2)	78	Q, T, C, B, OP
	19020404-012b	Black Tar	Yes	1	10	ND1	ND1	CELL (Trace)	> 99	T, B, OP
	19020404-012c	Black Tarry Semi-Fibrous Material	Yes	1	10	ND1	ND1	FBG (10) CELL (5)	85	T, B, OP
	19020404-012d	Brown Fibrous Material	Yes	1	15	ND1	ND1	CELL (90)	10	OP
	19020404-012e	Yellow Foam	Yes	1	50	ND1	ND1		100	OP, Foam
	19020404-012f	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (35) FBG (10)	55	T, B, OP

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Sample Identification		Physical Description of Sample; Additional Comments	Homo-geneous (yes/no)	Number of Layers	Percentage of Sample (%)	Asbestos Detected		Non-Asbestos Fibers (area %)	Non-Fibrous Material (area %)	Matrix Material (composition)
Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
13	19020404-013a	White Non-Fibrous Material	Yes	1	5	ND1	ND1	SYN (3)	97	C, B, OP
	19020404-013b	Blue Fibrous Material	Yes	1	10	ND1	ND1	SYN (98)	2	OP
	19020404-013c	Black Tarry Semi-Fibrous Material with Stones	Yes	1	15	ND1	ND1	FBG (10) CELL (5)	85	T, B, OP
	19020404-013d	Brown Fibrous Material	Yes	1	15	ND1	ND1	CELL (98)	2	OP
	19020404-013e	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (55)	45	T, B, OP
	19020404-013f	Yellow Foam	Yes	1	20	ND1	ND1		100	OP, Foam
	19020404-013g	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (55) FBG (10)	35	OP
	19020404-013h	Yellow Foam	Yes	1	20	ND1	ND1		100	OP, Foam
	19020404-013i	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (70) FBG (15)	15	OP

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Client	Lab Sample Number					Chrysotile (%)	Amphibole (%)			
14	19020404-014a	Black Tarry Semi-Fibrous Material with Stones	Yes	1	20	ND1	ND1	FBG (10) CELL (5)	85	T, B, OP
	19020404-014b	Brown Fibrous Material	Yes	1	35	ND1	ND1	CELL (95)	5	OP
	19020404-014c	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (45) FBG (10)	45	T, B, OP
	19020404-014d	Yellow Foam	Yes	1	40	ND1	ND1		100	OP, Foam
	19020404-014e	Black Fibrous Material	Yes	1	5	ND1	ND1	CELL (70) FBG (15)	15	OP
15	19020404-015a	Black Tarry Semi-Fibrous Material with Stones	Yes	1	20	ND1	ND1	CELL (10) FBG (10)	80	T, B, OP
	19020404-015b	Brown Fibrous Material	Yes	1	25	ND1	ND1	CELL (95)	5	OP
	19020404-015c	Black Tarry Fibrous Material	Yes	1	5	ND1	ND1	CELL (45) FBG (5)	50	T, B, OP
	19020404-015d	Yellow Foam	Yes	1	50	ND1	ND1		100	OP, Foam

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General Notes

- **ND1** indicates no asbestos was detected; the method detection limit is 1%.
- **Trace or "<1"** indicates asbestos was identified in the sample, but the concentration is less than the method detection limit of 1%.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under the NESHAPS regulations.
- Samples identified as inhomogeneous (containing more that one layer) shall be divided into individual layers and each layer tested separately. The results for each individual layer shall be listed separately on the report.
- These results are submitted pursuant to Aerobiology's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory will store the samples for a minimum period of 3 months before discarding. A shipping and handling charge will be assessed for the return of any samples.
- This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid.