31 October 2023

PROJECT: William Fox Elementary School Reconstruction
Richmond Public Schools
IFB: 23-7053-10
QE: 42240940

The following items represent changes, modifications and/or clarifications to the Contract Documents for this project. This Addendum shall become a part of the Contract Documents and all Bidders shall acknowledge its inclusion in their bid.

Responses to Bidder Questions:

1 **QUESTION**: Is it expected that a General Contractor will bid on the entire project, including the AV installation, or if the school system intends to award the AV component separately and directly to a vendor.

ANSWER: The Contractor shall provide the full scope of work indicated in the posted Bid Documents. Owner will procure additional equipment, not indicated in Bid Documents via a separate contract.

2 **QUESTION:** The security camera manufacturer for the project is listed as 'Avigilon or an approved Owner's equal. Is there any other approved camera manufacturer's that could be bid?

ANSWER: The Project Specifications require that the Camera 'head-end' software and hardware be by Avigilon as it is the Basis-of-Design and that provided system be compatible with Owner's existing Avigilon systems. The Specifications allow for the individual cameras to be by other manufacturers provided that they are equals, as determined by Owner and Architect, and fully compatible with the Avigilon system and RS2 Security Management System. Note that Substitutions are not approved prior to Bid Opening and that Bidders must ensure their product is equal to the Basis-of-Design. There is no guarantee after Bid Opening that Substitutions will be accepted.

3 **QUESTION:** Please confirm Sarco glaze putty may be used as wood window glazing compound.

ANSWER: Sarco Products appear to meet Project Specifications. Products equal to those Specified or meeting requirements of Specifications may be Submitted for review upon award of Contract.

4 **QUESTION:** Please provide clarification on required wood species to be used for Period Opening repairs/replication. Existing material is likely old growth heart pine which is very expensive and hard to source.

ANSWER: Old-growth heart pine is not required for this project. Refer to Section 060300 – Conservation Treatment for Period Wood for wood species requirements.

5 **QUESTION:** Please confirm period opening replacement sash and period opening replication window components can be provided by historic window repair vendors or other qualified offerors.

ANSWER: There are no restrictions on which companies or type of companies can furnish replacement window components if company can satisfy requirements of Specifications and Drawings.

6 **QUESTION:** Please confirm storm windows should be priced and provided per Storm Window Scope notes on A611 and not only at detailed locations shown on A610.

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ANSWER: Correct, Storm Windows shall be provided per Storm Window Scope Notes on Sheet A611

7 **QUESTION:** On A611 - Window Restoration Scope Note 4. C. indicates replacement of broken glass with 1/4" tempered glass. Existing glass is likely 1/8" or at most 3/16". Replacing broken glass with heavier glass that is tempered, will change weight of sash leading to non-functional balance system(additional work) and will present a significant visual difference when looking at original glass next to proposed glass to be provided. Please confirm it's acceptable to price and provide 1/8" DSB float glass to replace missing and broken glass for existing historic wood window sash instead of 1/4' tempered.

ANSWER: Glass for Historic Window Restoration shall be 1/8” to match existing. Refer to revised Specification Section 088000 - Glazing and Glazing Schedule on Sheet A001 – Abbreviations, Symbols and Schedules included in this Addendum.

8 **QUESTION:** Please provide window schedule referenced on A513 and A610.

ANSWER References to Window Schedule have been deleted, all scope is documented on Sheets in current Bid Set. Refer to Revised Sheets A513 and A610 included in this Addendum.

9 **QUESTION:** Plan notes call for using screws to secure non-operable windows in place. This practice will lead to future damage and increased future maintenance costs. Best practice would be to add chock-blocks under top sash to avoid damaging sash structure and concealing fasteners. Please confirm chock-blocks may be used to secure top sash in place in lieu of concealed fasteners.

ANSWER: Chock-Blocks under top sash shall be provided in-lieu of concealed fasteners. Refer to revised Sheets A610 and A611 included in this Addendum. Delete references to screwing sashes in-place.

10 **QUESTION:** Window Restoration Scope note 14 indicates to provide zinc weatherstrip and kerf cut only at sill while Spec Section 080300 "3.10 Weatherization" indicates to provide weatherstripping along "edge of sash". For typical Double Hung windows, zinc weatherstripping and sash modifications are performed at 5 surfaces of each sash which requires 10 modifying cuts and 10 individual pieces of zinc weatherstripping per opening. 4 for edges of top sash, 4 for edges of bottom sash and 2 at meeting rails where top and bottom sash come together. Please confirm that only bottom rail kerf cut and sill applied zinc weatherstripping is required as indicated on plan notes.

ANSWER: Weatherstripping shall be provided at edge of sash, meaning all (5) surfaces or edges as described in question, as indicated in Specification Section 080300 – Conservation Treatment for Period Openings.

11 **QUESTION:** Hazardous Material survey indicates presence of lead-based paint at various window sills and frames, but does not indicate sampling of window sash or mention LBP on window sash. Should contractors assume that window sash also contains lead-based paint and apply same safety and surface preparation scope to all window sash components assuming they also com?

ANSWER: The Lead Paint Chip Analysis Report dated 1/13/2023 included in the Project Manual indicates that many paint samples contained lead above the limit, while many did not. Due to the age of the building and the continuous repairs, renovations and replacements that have been carried out over its 100+ year life, it is expected that during some eras, lead-based paint was used extensively throughout the building, and at other times, non-lead-based paint was used extensively. Without testing every surface within the building, it is not possible to provide a complete list of which surfaces should be assumed to contain lead-based paint and which

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should not. It is the Contractors responsibility to bid the project in a manner that ensures all applicable safety and environmental regulations are met when working with a building such as this one, with paint and coatings of various types and ages.

12 **QUESTION:** Window Restoration Scope Note 4, B. indicates only the removal of loose glaze putty at each glass lite and then Note 4, H. calls for "application of new glazing compound at all glass lites". When addressing non-broken existing glass, should contractors:
A. Price removal of existing glass panes to rebed and reglaze consistent with the design intent of Spec Section 080300 3.09 Reglazing?
B. Price leaving sound glaze putty and existing glass lites in place and applying new glaze putty only where loose and failing?

ANSWER: Reglazing scope shall be consistent with Window Restoration Scope Note 4, B.
Refer to revised Sheet A611 – New Windows and Details for revised notes.

13 **QUESTION:** Please provide letter by Viro-technology detailing previous ACM survey referenced on page 125 of Specifications. Our intent is to verify ACM has been tested for and does not exist at window sash glaze putty locations. Please confirm no ACM glaze putty exists on the project.

ANSWER: Refer to letter and Asbestos Report, by AmeriSci / Viro-Technology and dated May 1, 2022, included in this Addendum.

14 **QUESTION:** Question regarding the Quartz Tile initials on the spec sheet and the finish plans. The Finish plans show QT-1 and QT-2 being installed. However in the spec sheet the Quartz Tile is indicated as QZ-1 and QZ-2. Could you please verify the QT-1 and QT-2 on the finish plans is in fact the Quartz Tiles? I assumed it was just a typo because there is no quarry tile on the job but just want to make sure.

ANSWER: Correct, the Specification Section contains a typographical error. QT-1 and QT-2 indicated Quartz Tile. QT-1 is the same as QZ-1 and QT-2 is the same as QZ-2.

15 **QUESTION:** Please confirm that the Documents indicate that the Existing Building is Boarded Up in Plywood and what the intent is to remain/remove this as work moves forward.

ANSWER: Contractor may elect to remove plywood currently installed over window openings as required to perform the work. The Contractor shall be responsible for protecting the interior of the building from weather, including blowing precipitation throughout the course of the Work.

16 **QUESTION:** Please confirm that the Documents indicate temporary plywood subfloor is in place on Level 3 and what the intent is to remain/remove this work.

ANSWER: Refer to General Demo Note 17 on Sheets AD101, AD102 and AD103

17 **QUESTION:** Instructions to Bidders para 2.1.9 and A201 General Conditions of the Contract for Construction para 3.7.1 both state “The Contractor shall not pay for: Any permits issued by the City of Richmond. The Bid Form states “The Contractor will be responsible for obtaining and bearing the cost of all subcontractor permits”. Which is correct?

ANSWER: A201 is Correct, refer to Revise Bid Form included in this Addendum

18 **QUESTION:** Given that all documentation is provided; will the Owner be prepared to pay for materials stored off-site?

ANSWER: Refer to Section 012900 – Payment Procedures for requirements relate to stored materials.

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19 **QUESTION:** Please confirm that the following are requirements to this project and explain intent if you do not mind. Reason for the ask is that this is typically seen more for LEED projects and this is not a LEED project.

015719 – Temporary Environmental Controls:

1. Includes:
    1. Building flush-out after construction and before occupancy.
    2. Testing indoor air quality before commencement of construction; existing building areas only.
    3. Testing indoor air quality after completion of construction.
    4. Testing air change effectiveness after completion of construction.
2. Building Flush-Out:
    1. Contractor's Option: Either full continuous flush-out OR satisfactory air contaminant testing is required, not both.
    2. Perform building flush-out before occupancy.
    3. Building Flush-Out:
        1. Operate all ventilation systems at normal flow rates with 100percent outside air until a total air volume of 14,000 CF per SF of floor area has been supplied.
            1. 65,000 SF of floor area times 14,000 CF = 910 million CF of ventilation

ANSWER: The requirements included in 01579 – Temporary Environmental Controls ARE required for this project. This is to provide the Owner with information about air quality before and after construction due to the building be open to the weather for a significant period of time prior to the reconstruction.

20 **QUESTION:** In a lot of the spec sections they have language associated with "Sustainable Design Submittals" and/or "Regional Materials". Is this a LEED project? Are these notes from a previous project thus not required and can be removed from this project?

ANSWER: LEED and Sustainable Design Submittals are not required for this Project. Delete all reference to LEED and Sustainable Design Submittals from the Project Manual

21 **QUESTION:** 061000 – Rough Carpentry calls for Sustainable Design Submittals/Chain of Custody Qualification Data/FSC Certified Wood/Regional Materials. Please confirm that this is not a requirement of this project.

ANSWER: Sustainable Design Submittals are not required for this project.

22 **QUESTION:** 061600 – Sheathing calls for Sustainable Design Submittals/Chain of Custody Qualification Data/FSC Certified Wood/Regional Materials. Please confirm that this is not a requirement of this project.

ANSWER: Sustainable Design Submittals are not required for this project.

23 **QUESTION:** 061715 – Engineered Structural Wood calls for Sustainable Design Submittals/Chain of Custody Qualification Data/FSC Certified Wood/Regional Materials. Please confirm that this is not a requirement of this project.

ANSWER: Sustainable Design Submittals are not required for this project.

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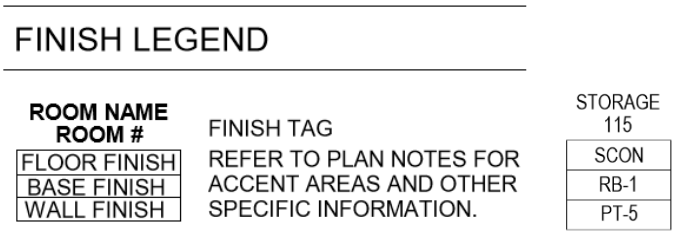
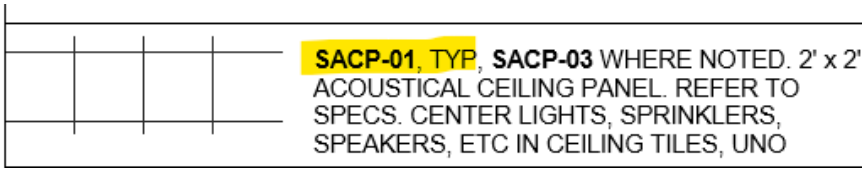
24 **QUESTION:** Are they planning on having a finish schedule and or a finish legend?

ANSWER: All finish information (floor, wall and base finishes) for each room are included in the Room Tag used on the Finish Plans. Refer to the Finish Legend for hatches, abbreviations, and explanation of how to read the Finish Plan Room Tags.



25 **QUESTION:** The RCP only shows SACP 2 & 3. Does that mean that any other grid shown is SACP 1?

ANSWER: SACP-01 is 'Typical' unless indicated otherwise. Refer to Ceiling Legend.



26 **QUESTION:** ACT Spec – 095100 – SACP 1 say Armstrong Cortega #769 which is a 2'x4' panel. Then later in the spec it says it is a 2'x2' panel. There are no 2'x4' ceiling panels on the plans. Can I assume that SACP 1 is Armstrong Cortega #770 which is a 2'x2' panel?

ANSWER: Correct, SACP 1 is Armstrong Cortega #770, 2x2 panel

27 **QUESTION:** Please provide additional information regarding the existing Temporary Fence around the perimeter of the site. Will the Owner take full responsibility of this during construction?

ANSWER: The Owner, Richmond Public Schools (RPS), owns the existing fencing currently installed at perimeter of site. During the course of the Work, Contractor shall be responsible for maintaining complete and continuous fencing perimeter and making modifications by adding or moving gates/entrances, making repairs to damaged panels, and other work as required. RPS will remove fencing at end of project.

28 **QUESTION:** Section 116623, paragraph 2.04.A.2.c. specifies custom graphics but none are indicated on the drawings. Custom graphics are priced per 2'-0" wide by 7'-0" high wall pad. Can a quantity of pads to receive graphics be provided or should this paragraph be deleted?

ANSWER: Delete Paragraph 2.04.A.2.c

29 **QUESTION:** Section 116623, paragraph 2.03.C. specifies the padding to have 16 ounce vinyl but most manufacturers utilize 14 ounce vinyl for padding. Will 14 ounce vinyl be acceptable?

ANSWER: Provide 14 oz. vinyl for wall padding

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30 **QUESTION:** Section 116623, paragraph 2.04.A.5. specifies the padding to have nailing/fastening margins but paragraph 2.04.A.6. specifies Z-clips for attachment. Generally the padding is without lips when Z-clips are provided. Can you advise if the padding should be mounted to the wall with fasteners at the top and bottom 1" nailing margins of the padding or attached with concealed Z-clips and not have 1" nailing margins?

ANSWER: Wall pads shall be secured with Z-clips. Delete reference to nailing margins in paragraph 2.04.A.5

31 **QUESTION:** Section 116623, paragraph 2.03.G. specifies the stage padding to be attached with Velcro but drawing A513, detail 4 indicates the stage padding to be attached with Z-clips. Generally stage padding is removable and attached with Velcro either to the face of the stage or the stage floor. Can it be confirmed the stage padding should be attached by Velcro and not Z-clips as shown on drawing A513?

ANSWER: Vertically installed pads on face of stage shall be secured with z-clips, as indicated on Sheet A5013. The top-return portion of the pad that sits on the stage surface shall be secured in place with Velcro, as noted in Specifications. Refer to revised notes on Sheet A5013 included in this Addendum.

32 **QUESTION:** Section 116623 does not specify the netting that is detailed on drawing A402, Keynote 12.08. Can a specification be provided for this netting at the windows (size net squares and color, generally black)?

ANSWER: Netting indicated by Keynote 12.08 is specified in Section 109000 Miscellaneous Specialties

33 **QUESTION:** Will shorter wall pads be required below the windows shown on A402?

ANSWER: Yes provide shorter wall pads below windows seen at Interior Elevations 2/A402 and 6/402. Refer to revised Sheet A402 included in this Addendum.

34 **QUESTION:** Drawing C200. Who owns the modular buildings that are to be removed from the site by the contractor at project completion? If the City, then please provide a location where the units are to be removed to or are they to be completely removed/demolished/disposed of?

ANSWER: Modular buildings are leased by Richmond Public Schools. Owner will remove buildings at end of project.

35 **QUESTION:** Where is the Signage Spec?

ANSWER: Signage will be procured by the Owner under separate Contract

36 **QUESTION**: In further review in division 230100-3 paragraph 1.14 A states a three (3) year warranty is this correct? Usually 12 months. In paragraph 1.14 D It requires monthly filter changes through warranty period. Should not the school systems' maintenance do their own filter changes? There is a lot of cost added for us to travel for a 3 year period just to change air filters. Will monthly filter changes during warranty be deleted and the warranty to 1 year?

ANSWER: The 36-month warranty will be updated to reflect a 12 month warranty period. The contractor shall conduct the monthly filter changes through the warranty period.

38 **QUESTION:** Reference specification 230800-1, 1.03 a. iii. DALT report. Please specify what we are testing. Specification 230593-2, C. states that TAB contractor to test to +/-10% of respective design

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quantities. Since all duct is considered low pressure 2"WG< is it necessary to DALT the ductwork?

ANSWER: A DALT is not necessary for the ductwork since it is all low-pressure.

39 **QUESTION:** Reference specification 230500-6, b. for boiler combustion air intake. Specs states outside combustion air pipe to be PVC, mechanical equipment schedule for the boiler on M003 calls for galvanized pipe for combustion air and AL294-C for the boiler vents. Boiler detail on M402 shows PVC for both combustion and exhaust. Please clarify.

ANSWER: The outside combustion air pipe is to be smooth-walled galvanized steel and the boiler vent pipe is to be AL294-C.

40 **QUESTION:** M001, note 26 indicates exposed ductwork is required to be 2" double-wall with paintable outer jacket. Please confirm the ductwork in attic is not considered "exposed" and shall be insulated per the concealed duct insulation specifications 230700, 3.03, B.

ANSWER: The ductwork in the attic is not considered "exposed" and shall be insulated per the concealed duct insulation specifications.

41 **QUESTION:** Specification 230900, Section 2.01 calls for Honeywell Building Solutions as an approved manufacturer. Will a Honeywell Tridium N4 JACE headend with BACnet field controllers, installed by an independent Contractor, be acceptable?

ANSWER: Per 230900 specification section 1.02 A., the alternative manufacturer is the Honeywell Building Solutions local factory office, so the installation by an independent contractor is not acceptable.

42 **QUESTION:** Specification 230900, Section 2.01 calls for Siemens and Honeywell Building Solutions as an approved manufacturer. Will a Schneider Electric Ecostruxure headend with BACnet field controllers be acceptable as an alternative as it meets/exceeds the performance criteria listed in specification 230900? This will give the school system additional competition, and the school system currently has additional control vendors in the existing buildings beyond just Siemens and Honeywell.

ANSWER: Controls contractor to provide controls based on acceptable manufacturers listed in 230900 specification section 1.02 A, Schneider is not an acceptable alternative.

43 **QUESTION:** 013200 – Construction Progress Documentation: Given the project as a whole: Are Cost Loading and Resource Loading for the Schedule actually required for this project? Please confirm that it is not required for this project.

ANSWER: No, Cost Loading and Resource Loading are not required for this project.

44 **QUESTION:** Section 012100 Allowances, 1.07.B Unit-Cost Allowances states "Unless otherwise indicated, Contractors costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner or selected by Architect under allowance shall be included as part of the Contract Sum and not part of the allowance."
Please make clear what costs are included in the Unit Cost allowance amounts and what costs the contractor should include separately in its base bid.

A. Exterior and Interior Masonry Repointing
B. Exterior Window Sill Replacement
C. Interior Wood Subfloor Removal and Replacement
D. Structural Joist Repair
E. Plaster Wall Finish Repair

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F. Interior Wood Trim, Less Than 6”
G. Interior Wood Trim, Greater Than 6”

ANSWER Change Section 01200 Allowances, Paragraph 1.07.B to read as follows:

“Unless otherwise indicated, Contractors costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to scope included in each Unit Price Allowance shall be included as part of the Unit Price.”

45 **QUESTION:** Drawing C102 and drawing F701 provide differing details for the Fire Department (Siamese) Connection. Which detail is correct for this project?

ANSWER: Detail 9 on Sheet F701 is the correct Fire Department Connection Detail. Delete Detail ‘Siamese Connector Detail’ from Sheet C102.

46 **QUESTION:** The OM4 fiber shown on sheet TT401 is indicated by a dotted line, is this existing to remain or are we to provide this?

ANSWER: The OM4 fiber shown on Sheet TT401 is not existing, it is to be provided by Contractor under this contract. It is shown dashed to differentiate it as a fiber line, rather than a copper line which is shown solid.

47 **QUESTION:** Specification 312000 Earthwork, para.3.10 Additional Excavation requires additional excavations, Mass, Trenches, Footings with select backfill, stone and/or lean concrete as may be directed by the Architect. Sections D. and E. indicate All additional excavations shall be included in the Base Bid Contract Amount with no consideration for additional cost or time extensions granted. Currently, there are no earthwork related unit cost allowances included in the bid documents to cover any possible additional excavations, disposal, backfill nor are any soil borings included. Please provide how contractors should include this additional work without the information noted above or preferably consider providing unit costs allowances for the possible additional excavations.

ANSWER: Delete paragraph 3.1 Additional Excavation and all sub-paragraphs from Section 312000 - Earthwork

48 **QUESTION:** Please confirm the following not associated with this project:
024113 – Selective Site Demolition:
1. Includes:
1. Permanent abandonment of the existing well.
2. Removal and disposal of material from dump areas.
3. Underground tanks.

ANSWER: Confirmed, the scope in question is not included. Delete Paragraphs 1.2.A.5, 6 & 7 from Section 024113 – Selective Site Demolition

49 **QUESTION:** Drawings A121, A122, A123:
1. What is the ceiling finish for room 110 IDF?
2. What is the ceiling finish for room 119 Custodial?
3. What is the ceiling finish for room 126 Book Storage?
4. What is the ceiling finish for room 226 Storage?
5. What is the ceiling finish for room 311a AV?

ANSWER: Refer to revised Sheets A121, A122 and A123 – Reflected Ceiling Plans for notes describing the following ceiling finishes:
1. 110 IDF: Gypsum Board Installed Directly to Joists of Floor Structure Above
2. 119 Custodial: Gypsum Board Installed Directly to Joists of Floor Structure Above

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3. 126 Book Storage: Gypsum Board Installed Directly to Joists of Floor Structure Above
4. 226 Storage: Gypsum Board Installed Directly to Joists of Floor Structure Above
5 311a AV: Gypsum Board Installed Directly to Joists of Floor Structure Above

50 **QUESTION:** Drawing A133 and specification 096429. Finish plan notes on A133 call for one layer of ½" plywood subfloor at locations where wood plank flooring is indicated. Wood Plank Floor specification call for 23/32 inch (3/4") thick T&G plywood subfloor. Which requirement is correct? If ½" material, are tongue and groove boards required?

ANSWER: Specification Sections 096428 – Wood Strip and Plank Flooring and 061600 – Sheathing indicate that 23/32" subfloor materials shall be provided.
Change Finish Plan Note 3 on Sheets A131, A132 and A133 to read as follows:
3. Level 2 and level 3: Install new plywood sub-floor over existing wood sub-floor at all rooms, Typ. Provide (1) layer of sub-floor at locations where wood plank flooring is indication. Provide (2) layers sub-floor where carpet, resilient tile or rubber flooring are indicated. Coordinate thickness of new subfloor with floor finishes and existing conditions, including but not limited to existing stone stair treads, to ensure final height of floor finishes are flush at same level. Advise architect of conditions where floor finish heights will not align.

51 **QUESTION:** Drawing A601 Door Schedule. Doors 201, 206, 207, 208, 209 and 210 indicate Frame HM16 but there is no HM16 detailed on A602 Hollow Metal Storefront Frame Types. Door 201 has designation HM09 on the A102 floor plan but none of the other doors show HM designations. Please clarify.

ANSWER: Doors 206, 207, 208, 209 and 210 shall be HM11
Door 201 shall be HM09

52 **QUESTION:** Drawing A601 Door Schedule. Doors 209b and 216 indicate Frame HM with no number designation. Please clarify frame type.

ANSWER: Door 209b shall be HM01
Door 216 shall be HM02

53 **QUESTION:** Drawing A601 Door Schedule. Door 108 is scheduled with frame HM04 but floor plans indicate HM07. Door 120 is scheduled with frame HM04 but floor plans indicate HM06. Please clarify

ANSWER: Door 108 shall be HM07
Door 106 shall be HM06

54 **QUESTION:** On the plans for the camera system, the plans list 360 cameras. Would you mind updating the technology for each location whether it is a "multi-sensor" or a "fisheye" type camera?

ANSWER: Refer to Specification Section 282329 – Video Surveillance Field Devices, paragraph 2.05 – Fixed Environmental IP Dome Camera for 360 camera type .

55 **QUESTION:** Drawing A201 Building Elevations. Keynote 07.12 New Exterior Insulated Finish System. Please provide specification information for the new EFIS system that is to match existing.

ANSWER: Provide air and water-resistive barrier and EIFS cladding components from single-source manufacturer.
Basis-of-Design: StoTherm ci XPS by Sto Corp, or equal product as determined by Architect.
Refer to notes on revised Sheet A201 – Building Elevations included in this Addendum.

56 **QUESTION:** Questions Regarding Specification 122413 (122414) – Manual Roller Shades and Motorized Roller Shades:

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1. 2.03.A. (2.04.A.) specifies, “1 percent and 3 percent openness.” May we include EcoFabrix 241 (1%) and 243 (3%) for this project?
2. 2.03.B. (2.04.B.) specifies, “0 percent openness.” May we include EcoFabrix 700 or EcoFabrix 770GC for this project?

ANSWER:

1. EcoFabrix 241 does not appear to exist in EcoFabrix line. Basis-of-Design is EcoFabrix Classix 251 line.
2. EcoFabrix 243 does not appear to exist in EcoFabrix line. Basis-of-Design is EcoFabrix Classix 253 line.

Change Specification Section 122413 – Manual Roller Shades, paragraph 2.03.A to read as follows: Basis-of-Design Product: EcoFabrix Solar Protective Sheer Fabrics, Classix Line

Change Specification Section 122413 – Manual Roller Shades, paragraph 2.03.B to read as follows: Basis-of-Design Product: EcoFabrix Solar Protective Light Blocking Fabrics, Classix Line

Change Specification Section 122414 – Motorized Roller Shades, paragraph 2.04.A to read as follows: Basis-of-Design Product: EcoFabrix Solar Protective Sheer Fabrics, Classix Line

Change Specification Section 122414 – Motorized Roller Shades, paragraph 2.04.A to read as follows: Basis-of-Design Product: EcoFabrix Solar Protective Light Blocking Fabrics, Classix Line

57 **QUESTION:** Sheet A001, Roller Shade Schedule. RS-2: What fabric (openness) is required?

ANSWER: Roller Shade RS-2 Shall receive fabric with 1% openness

58 **QUESTION:** A610, Details (3, 6)
1.These details show the roller shade chain offset from the bottom of the clutch, which is not how the product is designed. This would result in accelerated wear/damage on the chain rubbing on the bottom of the clutch, and a more difficult/physical experience operating the chain. Further, there appear to be eyelets around the chain at the window head and sill, which are not provided by the Basis of Design. Additionally, the shroud is designed to be free-hanging, not attached to any substate. Can the chain and shroud be located directly below the bottom of the shade, rather than offset from the bottom of the shade/clutch?

2.The shades are drawn open roll. Is this correct, or do they require either a fascia, a closure trim/closure or shade pocket?

ANSWER:

1. Roller shade and chain installation is not typical due to historic nature of window and trimwork dimensions. Details provided indicate design intent and coordination with existing conditions will be required.
2. A fascia is required.

Add the following paragraph to Specification Section 122413 – Manual Roller Shades:
2.02.B Fascia: At all surface-mounted shades; L-shaped, formed-steel sheet or extruded aluminum; long edges returned or rolled; continuous panel concealing front and bottom shade roller, brackets and operating hardware and operators; length as indicated on Drawings; removable for access.

59 **QUESTION:** Sound Absorbing Wall & Ceiling Units – 098430
1.Is it possible to label the products listed in the specs with AWP 1,2 or 3 so that they match up with what is shown on the plans?

ANSWER: Refer to Acoustic Wall Panel Schedule on Sheet A001 – Abbreviations, Symbols, Schedules for information on which specified products are AWP-1, 2 and 3:

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ACOUSTIC WALL PANEL SCHEDULE

REFER TO SPECIFICATIONS SECTION "ACOUSTIC WALL PANELS", TO INTERIOR ELEVATIONS, AND TO ENLARGED PLAN/ELEVS - GYMATORIUM, FOR LOCATIONS.

TYPE MARK	SIZE	TYPE
AWP-1	24" X 24"	PET PLASTIC PANELS
AWP-2	36" X 59"	FELT WALL PANELS
AWP-3	12" X 24"	FABRIC-WRAPPED PANELS

60 **QUESTION:** 087100 – Door Hardware: How do we figure "Provide Wrap-Around as needed for existing wood doors only"?

ANSWER: Provide Wrap-around at ALL of the existing doors that are being reused.

61 **QUESTION:** Please confirm the requirement for color coded PVC insulation jacketing for exosed piping and equipment in mechanical rooms and mechanical mezzanines per Section 230100, 3.12, C. This work is typical of industrial projects – not commercial – and the additional cost to provide this work does not benefit the end user, especially when piping is already identified with service markers and directional arrows.

62 **ANSWER:** The specified insulation jacketing shall be included.

63 **QUESTION:** Per 064100 – Architectural Wood Casework: References Countertops spec section 123600. Please provide this spec section if you do not mind.

ANSWER: Refer to Section 123600 – Countertops included in this Addendum

64 **QUESTION:** Please clarify if we are to quote single-station as required by code or system CO Detectors with sounder bases.

ANSWER: The specified system shall be included in the Bid.

64 **QUESTION:** Specs reference ANSI 117.1 which states that you must have power door operators/gates on a 90 degree configuration but Spec 144200 Sec 2.02.C.8 and Sec 2.02.D mention only manual gates/doors. Specs reference ANSI 117.1 which requires a surface mount remote hall call if ramp is involved but Sec 2.02.11.b calls for frame mount. Please confirm you want a frame mount. Specs reference ANSI 117.1 which requires a 42x60 platform for a 90 degree config on new construction and 36x60 platform on existing bldg but Sec 2.02.D.6/7 call for 36x53 7/8".

ANSWER: The specified configuration shall be included in the Bid.

Changes to Drawings:

1. **REPLACE the following Sheets with the Revised Sheets contained herein:**

   Sheet A001 – Abbreviations, Symbols, Schedules
   Sheet AD101 – Demolition Plan – Level 1
   Sheet AD102 – Demolition Plan – Level 2

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Sheet AD103 – Demolition Plan – Level 3
Sheet A201 – Building Elevations
Sheet A121 – Reflected Ceiling Plan Level 1
Sheet A122 - Reflected Ceiling Plan Level 2
Sheet A123 - Reflected Ceiling Plan Level 3 & Mezzanine
Sheet A131 – Finish Plan Level 1
Sheet A132 - Finish Plan Level 2
Sheet A133 - Finish Plan Level 3 & Mezzanine
Sheet A402 – Enlarged Plan/Elevs – Admin & Library
Sheet A513 – Interior Section Details
Sheet A610 – Existing Window Restoration
Sheet A611 – New Windows And Details

2. **Sheets A131 Finish Plan Level 1, Sheet A132 Finish Plan Level 2 and A133 Finish Plan Level 3:**

   CHANGE: Finish Plan Note 3 to read as follows:

   3. Level 2 and Level 3: Install new plywood sub-floor over existing wood sub-floor at all rooms, Typ. Provide (1) layer of sub-floor at locations where wood plank flooring is indication. Provide (2) layers sub-floor where carpet, resilient tile or rubber flooring are indicated. Coordinate thickness of new subfloor with floor finishes and existing conditions, including but not limited to existing stone stair treads, to ensure final height of floor finishes are flush at same level. Advise architect of conditions where floor finish heights will not align.

3. **Sheet C102 – Utility Details II**

   DELETE: Detail 'Siamese Connector Detail' from Sheet C102.

Changes to Specifications:

1. **280000 – Electronic Safety and Security:**

   DELETE: Paragraph 2.01 Substitutions and sub-paragraphs A, B, C and D in their entirety.

2. **088000 – Glazing:**

   REPLACE: with Revised Section 088000 – Glazing included in this Addendum

3. **096500 – Resilient Flooring:**

   REPLACE: with Revised Section 096500 – Resilient Flooring included in this Addendum

4. **116623 – Gymnasium Equipment:**

   REPLACE: with Revised Section 116623 – Gymnasium Equipment included in this Addendum

5. **BID FORM:**

   REPLACE: Bid Form with revised Bid Form included in this Addendum, which includes the following changes:

   DELETE: section 'Permits' and **REPLACE** with the following:

   Permits:
   The Owner has applied and paid for the Building and Trade Permits listed below:
   - Building Permit
   - Mechanical Permit
   - Gas Permit

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- Electrical Permit
- Plumbing Permit

It shall be the responsibility of the Contractor to assume those permits upon Notice to Proceed and diligently pursue their issuance in coordination with the Architect and Owner.
It shall be the responsibility of the Contractor to apply for and diligently pursue any additional required Permits from the City of Richmond.

6. **Bid Form, Section C. Delivery Schedule:**

   ADD: Paragraph 'Liquidated Damages' to read as follows:

   The Owner and the Contractor recognize that time is of the essence and that the Owner will suffer financial loss if the Work is not completed by the Substantial Completion date required by the Contract Documents. Both parties recognize the delays, expense and damages involved in proving in a legal proceeding the actual loss suffered by the Owner if the Work is not completed on time. Accordingly, the Owner and the Contractor agree, stipulate and fix as liquidated damages if delayed, but not as a penalty, the sum of one thousand and 00/100 Dollars ($1,000.00) that the Contractor shall pay the Owner for each calendar day or part thereof that expires after the dates specified for the Substantial Completion of the Work indicated in the Base Bid. Additionally, the Owner and the Contractor agree, to stipulate and fix as liquidated damages if delayed, but not as a penalty, the sum of five hundred and 00/100 Dollars ($500.00) that the Contractor shall pay the Owner for each calendar day or part thereof that expires after the date specified for the Final Completion of the Work.

7. **All Specification Sections:**

   DELETE: All references to LEED and Sustainable Design Requirements

8. **01200 - Allowances**

   CHANGE: Paragraph 1.07.B to read as follows:

   Unless otherwise indicated, Contractors costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to scope included in each Unit Price Allowance shall be included as part of the Unit Price.

9. **122413 – Manual Roller Shades**

   CHANGE: Paragraph 2.03.A to read as follows: Basis-of-Design Product: EcoFabrix Solar Protective Sheer Fabrics, Classix Line

   CHANGE: Paragraph 2.03.B to read as follows: Basis-of-Design Product: EcoFabrix Solar Protective Light Blocking Fabrics, Classix Line

   ADD: Paragraph 2.02.B Fascia: At all surface-mounted shades; L-shaped, formed-steel sheet or extruded aluminum; long edges returned or rolled; continuous panel concealing front and bottom shade roller, brackets and operating hardware and operators; length as indicated on Drawings; removable for access.

10. **122414 – Motorized Roller Shades**

    CHANGE: Paragraph 2.04.A to read as follows: Basis-of-Design Product: EcoFabrix Solar Protective Sheer Fabrics, Classix Line

    CHANGE: Paragraph 2.04.A to read as follows: Basis-of-Design Product: EcoFabrix Solar Protective Light Blocking Fabrics, Classix Line

11. **312000 - Earthwork**

    DELETE: Paragraph 3.1 Additional Excavation and all sub-paragraphs

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12. **024113 – Selective Site Demolition**

    DELETE: Paragraphs 1.2.A.5, 1.2.A.6 and 1.2.A.7

13. **064100 – Architectural Wood Casework**

    REPLACE: With Revised section 064100 - Architectural Wood Casework included in this Addendum

14. **028500 – Mold Remediation**

    ADD: New Section 028500 – Mold Remediation

Clarifications:

Reference A201-2017 - notwithstanding Section 13.2.1, the Contractor agrees that the Owner has the right to make any necessary transfers to the LLC for purposes of obtaining historical tax credits.
END OF ADDENDUM 02

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BID FORM

(Submit one (1) copy of this form)

Invitation for Bid #23-7053-10
Project: William Fox Elementary School Reconstruction

A. BASIS OF AWARD:

Award will be made to the lowest responsive and responsible bidder based on the Total Bid Amount.

B. PRICING SCHEDULE:

Having carefully examined the site, the drawings, specifications and other documents, and in compliance with your "Invitation to Bid", Instructions to Bidders AIA701-2018 Edition, and this "Bid Form", the undersigned proposes to furnish all labor, materials, supplies and equipment necessary for **William Fox Elementary School Reconstruction**. All shall be in accordance with Drawings prepared by Quinn Evans dated October 3, 2023 and the Project Manual, dated October 3, 2023.
The bidder agrees to furnish the goods/services as specified herein, and in compliance with the terms and conditions of this Invitation for Bids at the following price(s):

PART A - BASE BID: _____Dollars

($_____)

Unit Price Allowances:

Unit Price Allowances are based on a price per unit of measurement for materials or services that will be adjusted upward or downward based on site conditions to the Contract by Change Order in the event the quantities of Work required by the Contract Documents are increased or decreased from those shown or indicated. Unit price allowances shall include all material and labor, overhead, profit and applicable taxes. Prices quoted being sum total compensation payable or creditable for such items or work. It is understood that extra work will not be executed without prior written notice.

Refer to Section 012100 – Allowances for full description of scope included in each Allowance listed below.

PART B:
Unit-Cost Allowance No. 1: Exterior and Interior Masonry Repointing

Cost for 1 SF _____ x 6,000 SF = $_____

PART C:
Unit-Cost Allowance No. 2: Exterior Window Sill Replacement

Cost for 1 LF _____ x 200 LF = $_____

PART D:
Unit-Cost Allowance No. 3: Interior Wood Subfloor Removal and Replacement

Cost for 1 SF _____ x 2,000 SF = $_____

PART E:
Unit-Cost Allowance No. 4: Structural Joist Repair:

Cost for 1 Repair _____ x 60 Locations = $_____

PART F:
Unit-Cost Allowance No. 5: Plaster Wall Finish Repair:

Cost for 1 SF _____ x 3,000 SF = $_____

PART G:
Unit-Cost Allowance No. 6: Interior Wood Trim, Less than 6" Height:

Cost for 1 LF _____ x 1,000 LF = $_____

PART H:
Unit-Cost Allowance No. 7: Interior Wood Trim, Greater than 6" Height:

Cost for 1 LF _____ x 1,000 LF = $_____

TOTAL BID AMOUNT (Sum of PARTS A, B, C, D, E, F, G & H) IS:

_____ DOLLARS

($_____)

PERMITS:

The Owner has applied and paid for the Building and Trade Permits listed below:

- Building Permit
- Mechanical Permit
- Gas Permit
- Electrical Permit
- Plumbing Permit

It shall be the responsibility of the Contractor to assume those permits upon Notice to Proceed and diligently pursue their issuance in coordination with the Architect and Owner.

It shall be the responsibility of the Contractor to apply for and diligently pursue any additional required Permits from the City of Richmond.

C. DELIVERY SCHEDULE:

If awarded a Contract, the Undersigned agrees to complete the work by the following dates:

1. Substantial Completion: **May 1, 2025**
2. Final Completion: **July 1, 2025**

LIQUIDATED DAMAGES:

The Owner and the Contractor recognize that time is of the essence and that the Owner will suffer financial loss if the Work is not completed by the Substantial Completion date required by the Contract Documents. Both parties recognize the delays, expense and damages involved in proving in a legal proceeding the actual loss suffered by the Owner if the Work is not completed on time. Accordingly, the Owner and the Contractor agree, stipulate and fix as liquidated damages if delayed, but not as a penalty, the sum of one thousand and 00/100 Dollars ($1,000.00) that the Contractor shall pay the Owner for each calendar day or part thereof that expires after the dates specified for the Substantial Completion of the Work indicated in the Base Bid. Additionally, the Owner and the Contractor agree, to stipulate and fix as liquidated damages if delayed, but not as a penalty, the sum of five hundred and 00/100 Dollars ($500.00) that the Contractor shall pay the Owner for each calendar day or part thereof that expires after the date specified for the Final Completion of the Work.

D. ADDENDA:

Bidder hereby acknowledges receipt of and incorporation of all requirements of any addenda issued for this Invitation for Bid.

Addendum #	Date
_____	_____
_____	_____

E. BID BOND: Attached hereto is a Bid Bond for 5% of the undersigned base bid made payable to RICHMOND PUBLIC SCHOOLS.

F. BUSINESS CLASSIFICATION

Bidders are requested to provide the following information regarding their business. This information is for statistical purposes and, except in the case of tie bids, all firms submitting bids will receive equal consideration. Bidder shall indicate whether they are classified as a:

Minority-Owned Business	Yes □	No □
Service Disabled Veteran-Owned Business	Yes □	No □
Small Business	Yes □	No □
Women-Owned Business	Yes □	No □
Employment Services Organization	Yes □	No □

If certified by the Virginia Department of Small Business and Supplier Diversity (SBSD), provide SBSD certification number and expiration date.

NUMBER_____ DATE_____

G. VIOLATIONS OF FEDERAL OR STATE OSHA STANDARDS

Each bid submitted to RPS for a contract for construction, alternation, and/or repairs should include a list of all willful violations, violations for failure to abate, repeated violations, or three or more serious safety violations of Federal or State OSHA Standards. Additionally, the bids must include information regarding termination of a contract.

No Violations/Termination of contract to report

_____

Authorized Signature Date

Violations/Termination of contract information attached:

_____

Authorized Signature Date

H. VIRGINIA CONTRACTOR LICENSE

In accordance with the *Code of Virginia* Section 54.1-1100, as amended, contractors that for a fixed price, commission, fee, or percentage undertake to bid upon, or accepts, or offers to accept, orders or contracts for performing, managing, or superintending in whole or in part, the construction, removal, repair or improvement of any building or structure permanently annexed to real property owned, controlled, or leased by him or another person or any other improvement to such real property, are required to hold a business license issued by the Virginia Board for Contractors, phone (804)367-8511. If a Bidder shall fail to obtain the required license prior to submission of a bid, the bid shall not be considered.

Class of License Definitions:

Class A Contractor – perform or manage construction, removal, repair, or improvements when (i) the total value referred to in a single contract or project is $120,000 or more, or (ii) the total value of all such construction, removal, repair, or improvements undertaken by such person within any 12-month period is $750,000 or more.

Class B Contractor – perform or manage construction, removal, repair, or improvements when (i) the total value referred to in a single contract or project is $10,000 or more, but less than $120,000, or (ii) the total value of all such construction, removal, repair or improvements undertaken by such person within any 12-month period is $150,000 or more, but less than $750,000.

Class C Contractor – perform or manage construction, removal, repair, or improvements when (i) the total value referred to in a single contract or project is over $1,000 but less than $10,000, or (ii) the total value of all such construction, removal, repair, or improvements undertaken by such person within any 12-month period is less than $150,000. The Board shall require a master tradesmen license as a condition of licensure for electrical, plumbing and heating, ventilation and air conditioning contractors.

The Contractor license shall have the appropriate specialty classification that is predominant for the respective work.

Contractor is required to possess a Class **A** Contractor's Business License for this project.

Provide contractor license number below:

Class A Virginia Contractor License No. _____
Classification/Specialty: _____

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: 8047631200 FAX: 8047631800

May 1, 2022

Viro-Technology
Attn: Vincent White
1108 E. Main St.
Suite 702
Richmond, VA 23219

RE: Viro-Technology
Job Number 122042344
P.O. #Fox Elementary
Fox Elementary

Dear Vincent White:

Enclosed are the results for PLM asbestos analysis of the following Viro-Technology samples received at AmeriSci on Thursday, April 28, 2022, for a 48 hour turnaround:

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47

The 47 samples contained in zip lock bag were shipped to AmeriSci via Hand Delivered. These samples were prepared and analyzed according to EPA PLM Method (EPA 600/R-93/116 Section 2.2). The required analytical information, analysis results, analyst signature and laboratory identification are contained in the PLM Bulk Asbestos Report. If TEM analysis was requested for selected samples the gravimetric reduction data (by Sec 2.3) and TEM Asbestos % (by Sec 2.5) are included in Table 1 along with a summary of Asbestos % by PLM for all samples analyzed.

This report relates ONLY to the sample analysis expressed as % asbestos. AmeriSci assumes no responsibility for customer supplied data such as “sample type”, "location", or “area sampled”. This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology accreditation requirements mandate that this report must not be reproduced, except in full, without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Jean L. Mayes

QA Manager | Authorized Signatory

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Viro-Technology
Attn: Vincent White
1108 E. Main St.
Suite 702
Richmond, VA 23219

Date Received 04/28/22
Date Examined 05/01/22

RE: Fox Elementary

AmeriSci Job # 122042344
P.O. #
Page 1 **of** 12

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
1	122042344-01	***No***	NVA
	Location: Fire Debris; 2nd Fl Hall		by Gordon T. Saleeby on 05/01/22
	Analyst Description: Black, Heterogeneous, Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Cellulose Present, Fibrous glass Present, Non-fibrous 100%		
2	122042344-02.1	***No***	NAD
	Location: Fire Debris; 1st Fl Hall		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Skim Coat (Plaster)		
	Asbestos Types:		
	Other Material: Non-fibrous 100%		
2	122042344-02.2	***No***	NAD
	Location: Fire Debris; 1st Fl Hall		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Lt. Beige, Heterogeneous, Non-Fibrous, Base Coat (Plaster)		
	Asbestos Types:		
	Other Material: Cellulose Trace, Non-fibrous 100%		
2	122042344-02L3	***No***	NAD
	Location: Fire Debris; 1st Fl Hall		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Black, Heterogeneous, Non-Fibrous, Felt		
	Asbestos Types:		
	Other Material: Cellulose 2%, Fibrous glass 20%, Non-fibrous 78%		
2	122042344-02L4	***No***	NAD
	Location: Fire Debris; 1st Fl Hall		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Black, Heterogeneous, Non-Fibrous, Sub Floor		
	Asbestos Types:		
	Other Material: Cellulose 97%, Non-fibrous 3%		

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
3	122042344-03.1	***No***	NAD
	Location: Ceiling Plaster; 1st Fl		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: White, Heterogeneous, Non-Fibrous, Skim Coat (Plaster)		
	Asbestos Types:		
	Other Material: Non-fibrous 100%		
3	122042344-03.2	***No***	NAD
	Location: Ceiling Plaster; 1st Fl		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Beige, Homogeneous, Non-Fibrous, Cementitious, Base Coat (Plaster)		
	Asbestos Types:		
	Other Material: Animal hair Trace, Non-fibrous 100%		
4	122042344-04.1	***No***	NAD
	Location: Ceiling Plaster; 2nd Fl		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Skim Coat (Plaster)		
	Asbestos Types:		
	Other Material: Non-fibrous 100%		
4	122042344-04.2	***No***	NAD
	Location: Ceiling Plaster; 2nd Fl		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Lt. Beige, Heterogeneous, Non-Fibrous, Base Coat (Plaster)		
	Asbestos Types:		
	Other Material: Animal hair Trace, Non-fibrous 100%		
5	122042344-05	***No***	NAD
	Location: Ceiling Plaster; Basement		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Lt. Beige, Heterogeneous, Non-Fibrous, Bulk Material		
	Asbestos Types:		
	Other Material: Animal hair Trace, Non-fibrous 100%		
	Comment: Sample contains Base Coat Plaster only.		

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
6	122042344-06.1	***No***	NAD
	Location: Wall Plaster; 1st Fl		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Lt. Gray, Heterogeneous, Non-Fibrous, Skim Coat (Plaster)		
	Asbestos Types:		
	Other Material: Non-fibrous 100%		
6	122042344-06.2	***No***	NAD
	Location: Wall Plaster; 1st Fl		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Brown, Heterogeneous, Non-Fibrous, Base Coat (Plaster)		
	Asbestos Types:		
	Other Material: Non-fibrous 100%		
7	122042344-07.1	***No***	NAD
	Location: Wall Plaster; 1st Fl		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Lt. Gray, Homogeneous, Non-Fibrous, Skim Coat (Plaster)		
	Asbestos Types:		
	Other Material: Non-fibrous 100%		
7	122042344-07.2	***No***	NAD
	Location: Wall Plaster; 1st Fl		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Base Coat (Plaster)		
	Asbestos Types:		
	Other Material: Animal hair Trace, Non-fibrous 100%		
8	122042344-08.1	***No***	NAD
	Location: Wall Plaster; 2nd Fl		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Lt. Gray, Homogeneous, Non-Fibrous, Skim Coat (Plaster)		
	Asbestos Types:		
	Other Material: Non-fibrous 100%		
8	122042344-08.2	***No***	NAD
	Location: Wall Plaster; 2nd Fl		(by CVES) by Gordon T. Saleeby on 05/01/22
	Analyst Description: Brown, Homogeneous, Non-Fibrous, Cementitious, Base Coat (Plaster)		
	Asbestos Types:		
	Other Material: Animal hair Trace, Non-fibrous 100%		

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
9	122042344-09	***No***	NAD
Location: JC; 1st Fl			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
10	122042344-10	***No***	NAD
Location: JC; 2nd			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
11	122042344-11	***No***	NAD
Location: JC; Basement			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
12	122042344-12	***No***	NAD
Location: DW; 1st			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Off-White/Brown, Heterogeneous, Non-Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 7%, Fibrous glass 2%, Non-fibrous 91%			
13	122042344-13	***No***	NAD
Location: DW; 2nd			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Off-White/Brown, Heterogeneous, Non-Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 12%, Non-fibrous 88%			
14	122042344-14	***No***	NAD
Location: DW; Basement			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Off-White/Brown, Heterogeneous, Non-Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 12%, Non-fibrous 88%			

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
15	122042344-15	***No***	NAD
Location: CJC; 1st Fl			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
16	122042344-16	***No***	NAD
Location: CJC; 2nd Fl			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
17	122042344-17	***No***	NAD
Location: CJC; Basement			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
18	122042344-18	***No***	NAD
Location: CDW; 1st FL			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 5%, Fibrous glass 2%, Non-fibrous 93%			
19	122042344-19	***No***	NAD
Location: CDW; 2nd Fl			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: White, Heterogeneous, Non-Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 2%, Fibrous glass 4%, Non-fibrous 94%			
20	122042344-20	***No***	NAD
Location: CDW; Basement			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: White/Brown, Heterogeneous, Non-Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 5%, Fibrous glass 2%, Non-fibrous 93%			

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21	122042344-21	***No***	NAD
Location: Ceiling HP; 1st Fl Office			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100%			
22	122042344-22	***No***	NAD
Location: Ceiling HP; Basement			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100%			
23	122042344-23	***No***	NAD
Location: Ceiling HP; Basement			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100%			
24	122042344-24	***No***	NAD
Location: 12x12 CT; Basement			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Brown, Heterogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 95%, Non-fibrous 5%			
25	122042344-25	***No***	NAD
Location: 12x12 CT; Basement			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Brown, Heterogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 95%, Non-fibrous 5%			
26	122042344-26	***No***	NAD
Location: 12x12 CT; 1st Fl			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Brown, Heterogeneous, Fibrous, Ceiling Tile			
Asbestos Types:			
Other Material: Cellulose 95%, Non-fibrous 5%			

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
27	122042344-27	***No***	NAD
Location: Duct Covering; Basement			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: White/Silver, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
28	122042344-28	***No***	NAD
Location: Duct Covering; Basement			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: White/Silver, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
29	122042344-29	***No***	NAD
Location: Bulletin Board Mastic; 2nd Fl			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
30	122042344-30	***No***	NAD
Location: Bulletin Board Mastic; 1st Fl			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
31	122042344-31	***Yes***	10%
Location: Pipe Ins; Rm 110 L			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Gray, Heterogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 10.0 % **Other Material:** Cellulose 70%, Fibrous glass 3%, Non-fibrous 17%			
32	122042344-32	***Yes***	20%
Location: Pipe Ins; Rm 110 R			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Gray, Heterogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 20.0 % **Other Material:** Cellulose 50%, Fibrous glass 3%, Non-fibrous 27%			

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
33	122042344-33	***Yes***	20%
	Location: Pipe Ins; Rm 110		(by CVES) by Jean L. Mayes on 05/01/22
	Analyst Description: Gray, Heterogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 20.0 % **Other Material:** Cellulose 50%, Fibrous glass 3%, Non-fibrous 27%		
34	122042344-34L1	***No***	NAD
	Location: Stair Tread; Stairway		(by CVES) by Jean L. Mayes on 05/01/22
	Analyst Description: Brown, Heterogeneous, Non-Fibrous, Stair Tread **Asbestos Types:** **Other Material:** Non-fibrous 100%		
34	122042344-34L2	***No***	NAD
	Location: Stair Tread; Stairway		(by CVES) by Jean L. Mayes on 05/01/22
	Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100%		
35	122042344-35L1	***No***	NAD
	Location: Stair Tread; Stairway		(by CVES) by Jean L. Mayes on 05/01/22
	Analyst Description: Brown, Heterogeneous, Non-Fibrous, Stair Tread **Asbestos Types:** **Other Material:** Non-fibrous 100%		
35	122042344-35L2	***No***	NAD
	Location: Stair Tread; Stairway		(by CVES) by Jean L. Mayes on 05/01/22
	Analyst Description: White, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100%		
36	122042344-36	***No***	NAD
	Location: Flooring; Basement		(by CVES) by Jean L. Mayes on 05/01/22
	Analyst Description: White, Heterogeneous, Non-Fibrous, Flooring **Asbestos Types:** **Other Material:** Non-fibrous 100%		

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
37	122042344-37L1	***No***	NAD
Location: Floor Tile/Mastic; Basement B-6			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Blue, Heterogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
37	122042344-37L2	***No***	NAD
Location: Floor Tile/Mastic; Basement B-6			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100%			
38	122042344-38	***No***	NAD
Location: Red Duct Mastic; 1st			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Red, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100%			
39	122042344-39	***No***	NAD
Location: Red Duct Mastic; 2nd Fl RR			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Red, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100%			
40	122042344-40	***No***	NAD
Location: Duct Vent Tape; 2nd Fl RR			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Silver, Heterogeneous, Non-Fibrous, Tape **Asbestos Types:** **Other Material:** Non-fibrous 100%			
41	122042344-41	***No***	NAD
Location: Column Material; 2nd Fl			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Gray, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 80%, Non-fibrous 20%			

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
42	122042344-42	***No***	NAD
Location: Ext WG; windows			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: White, Heterogeneous, Non-Fibrous, Glazing			
Asbestos Types:			
Other Material: Non-fibrous 100%			
43	122042344-43	***No***	NAD
Location: Ext WG; windows			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: White, Heterogeneous, Non-Fibrous, Glazing			
Asbestos Types:			
Other Material: Non-fibrous 100%			
44	122042344-44L1	***No***	NAD
Location: Roofing Material; Roof			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Shingle			
Asbestos Types:			
Other Material: Fibrous glass 20%, Non-fibrous 80%			
44	122042344-44L2	***No***	NAD
Location: Roofing Material; Roof			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 45%, Non-fibrous 55%			
44	122042344-44L3	***No***	NAD
Location: Roofing Material; Roof			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: White/Blue, Heterogeneous, Non-Fibrous, Membrane			
Asbestos Types:			
Other Material: Synthetic fibers 80%, Non-fibrous 20%			
44	122042344-44L4	***No***	NAD
Location: Roofing Material; Roof			(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Cementitious, Slate			
Asbestos Types:			
Other Material: Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
45	122042344-45L1	***No***	NAD
	Location: Roofing Material; Roof		(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Shingle **Asbestos Types:** **Other Material:** Fibrous glass 20%, Non-fibrous 80%			
45	122042344-45L2	***No***	NAD
	Location: Roofing Material; Roof		(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass 40%, Non-fibrous 60%			
45	122042344-45L3	***No***	NAD
	Location: Roofing Material; Roof		(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: White/Blue, Heterogeneous, Fibrous, Membrane **Asbestos Types:** **Other Material:** Synthetic fibers 80%, Non-fibrous 20%			
45	122042344-45L4	***No***	NAD
	Location: Roofing Material; Roof		(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Cementitious, Slate **Asbestos Types:** **Other Material:** Non-fibrous 100%			
46	122042344-46	***No***	NAD
	Location: Floor Paper; 1st FL		(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Black, Heterogeneous, Fibrous, Tar Paper **Asbestos Types:** **Other Material:** Cellulose 80%, Non-fibrous 20%			
47	122042344-47	***No***	NAD
	Location: Floor Paper; 2nd Fl		(by CVES) by Jean L. Mayes on 05/01/22
Analyst Description: Black, Heterogeneous, Fibrous, Tar Paper **Asbestos Types:** **Other Material:** Cellulose 80%, Non-fibrous 20%			

See Reporting notes on last page

PLM Bulk Asbestos Report

Fox Elementary

Reporting Notes:

Analyzed by: Gordon T. Saleeby
Date: 5/1/2022

Reviewed by: Jean L. Mayes

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Olympus, Model BH-2 microscope, Serial #237649, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

AMERI SCI
Environmental Laboratories

CHAIN OF CUSTODY RECORD

AMERISCI RICHMOND Job No.: 122042344

AMERISCI RICHMOND
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
PHONE: (804) 763-1200
FAX: (804) 763-1800
TOLL FREE: (800) 476-5227
www.AmeriSci.com

Company	Address	P.O.#:
Vido-Technology	4100 Brook Rd. Suite-B Richmond VA	SPECIAL INSTRUCTIONS:

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME (X)							AIR FILTER INFORMATION:	
		RUSH	6-10 HR	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Fox Elementary	TEM / AHERA								MCE	
	TEM/BULK								PC	
JOB NO.:	PLM				X				25 mm	
	PCM								37 mm	
JOB MANAGER:	NY ELAP	CALL							0.45 um	
	LEAD	CALL	CALL						0.80 um	
JOB DESCRIPTION:	RCRA METAS	CALL	CALL						OTHER:	
	TCLP	CALL	CALL							
	OTHER:									

RESULTS TO:	State Samples Collected:
EMAIL RESULTS? Y☐ Email:	PHONE:
WRITTEN REPORT TO:	FAX Results? Y☐ Fax#:
COMMENTS:	CELL:

LAB ID	SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
01	1 Fire Debris	2nd Fl Hall						
	2 ↓	1ST Fl Hall						
02	3 Ceiling Plaster	1st Fl.						
	4 ↓	2nd Fl						
	5 ↓	Basement						
03	6 Wall Plaster	1st Fl						
	7 ↓ ↓	1ST Fl						
	8 ↓ ↓	2nd Fl						
04	9 JC	1ST Fl						
	10 ↓	2nd Fl						
	11 ↓	Basement						
05	12 DW	1ST						
	13 ↓	2nd						
	14 ↓	Basement						
06	15 CJC	1ST Fl						
	16 ↓	2nd Fl						
	17 ↓	Basement						
07	18 CDW	1ST Fl						
	19 ↓	2nd Fl						
	20 ↓	Basement						
08	21 Ceiling Hp	1ST Fl office						
	22 ↓	Basement						
	23 ↓	↓						

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	RECEIVED	DATE/TIME:
[signature]	4-26-22			
RELINQUISHED BY	DATE/TIME:	RECEIVED IN LAB BY:	APR 28 2022 By [signature] @ 3:00	DATE/TIME:

AMERI SCI
Environmental Laboratories

CHAIN OF CUSTODY RECORD

AMERISCI RICHMOND Job No.: 122042344

AMERISCI RICHMOND
13635 GENITO ROAD
MIDLOTHIAN, VA 23112
PHONE: (804) 763-1200
FAX: (804) 763-1800
TOLL FREE: (800) 476-5227
www.AmeriSci.com

Company	Address	P.O.#:
Vivo-Technology	4100 Brook Rd. Suite-B Richmond VA	SPECIAL INSTRUCTIONS:

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME (X)							AIR FILTER INFORMATION:	
		RUSH	6-10 HR	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Fox Elementary	TEM / AHERA								MCE	
	TEM/BULK								PC	
JOB NO.:	PLM				X				25 mm	
	PCM								37 mm	
JOB MANAGER:	NY ELAP	CALL							0.45 um	
	LEAD	CALL	CALL						0.80 um	
JOB DESCRIPTION:	RCRA METAS	CALL	CALL						OTHER:	
	TCLP	CALL	CALL							
	OTHER:									

RESULTS TO:	State Samples Collected:
EMAIL RESULTS? Y☐ Email:	PHONE:
WRITTEN REPORT TO:	FAX Results? Y☐ Fax#:
COMMENTS:	CELL:

LAB ID	SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
09	24 12X12 CT	Basent						
	25 ↓	↓						
	26 ↓	1ST FL						
10	27 DUCT covering	Basent						
	28 ↓	↓						
11	29 Bulletin Board Mastic	2nd FL						
	30 ↓ ↓ ↓	1ST FL RR						
12	31 pipe ins	Rm 110 L						
	32 ↓	R ↓						
	33 ↓	↓						
13	34 Stair Tread	STAIRWAY						
	35 ↓	↓						
14	36 Flooring	Basement						
15	37 Floor Tile/Mastic	Basent B-6						
16	38 red duct mastic	1ST ~~Basent~~						
	39 ↓ ↓ ↓	2ND FL RR						
17	40 Duct vent Tape	2nd FL RR						
18	41 Colum material	2nd FL						
19	42 EXT WG	Windows						
	43 ↓ ↓	↓						
20	44 roofing material	roof						
	45 ↓ ↓	↓				RECEIVED		

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
[signature]	4-26-22	APR 28 2022	
RELINQUISHED BY	DATE/TIME:	RECEIVED IN LAB BY: By [signature]	DATE/TIME:

AmeriSci
Environmental Laboratories

CHAIN OF CUSTODY RECORD

AmeriSci Richmond Job No.: 122042344

AmeriSci Richmond
13635 Genito Road
Midlothian, VA 23112
Phone: (804) 763-1200
Fax: (804) 763-1800
Toll Free: (800) 476-5227
www.AmeriSci.com

Company	Address	P.O.#: / Special Instructions:
Viro-Technology	4100 Brock Rd. Suite-3 Richmond VA	

Project Information	Analysis Type	Rush	6-10 Hr	24 Hr	48 Hr	72 Hr	5 Day	Other	Air Filter Information:	
Job Name: Fox Elementary	TEM / AHERA								MCE	
	TEM/Bulk								PC	
Job No.:	PLM				X				25 mm	
	PCM								37 mm	
Job Manager:	NY ELAP	Call							0.45 um	
	Lead	Call	Call						0.80 um	
Job Description:	RCRA Metas	Call	Call						Other:	
	TCLP	Call	Call							
	Other:									

Results To: | State Samples Collected:
Email Results? Y☐ Email: | Phone:
Written Report To: | Fax Results? Y☐ Fax#:
Comments: | Cell:

Lab ID	Sample ID	Sample Location	Start Time	Stop Time	Total Time	X Liters /Min.	= Total Volume	Date Collected
21	46 Floor paper	1st Fl						
	47 ↓	2nd Fl						

Sampled By:	Date/Time:	Received By:	Date/Time:
[signature]	4-28-22	RECEIVED APR 28 2022 By [initial]	
Relinquished By	**Date/Time:**	**Received in Lab By:**	**Date/Time:**

3 of 3

SECTION 028500 – MOLD REMEDIATION

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. The work to be performed under this contract comprises the satisfactory completion of all items specified herein:

1. Furnishing of all labor, tools, materials, equipment, and waste disposal services necessary for and reasonably incidental to the remediation and removal and disposal of mold within the existing building and materials.

2. The work as specified herein shall be performed as required to accommodate final EPA AHERA and NESHAP air clearance testing of all interior work sites where standard negative air enclosures have been established, and satisfactory visual inspections and environmental air testing for all areas. None of the negative air enclosures shall be removed until visual inspections and air clearance testing results are satisfactory for the contained work site(s), nor the barricades removed until the final visual inspections and environmental testing results are satisfactory for areas not inside negative air containments.

3. Mold Remediation work includes the complete and proper removal and disposal of mold containing materials, using the procedures specified herein. Mold Remediation work shall be performed under the base bid.

B. Other Hazardous Materials Present in the Building

1. The building stabilization process that occurred after the fire included asbestos abatement throughout all areas. If materials suspected to contain asbestos are uncovered or observed, Contractor shall stop work and bring these materials to the Owner and Architect’s attention for direction on how to proceed.

2. Lead-based Paint (LBP) is known to be present in the building. Refer to Project Manual Section 001500 Hazardous Materials Reports for Lead-Based Paint Analysis Report. The Contractor should perform Work in accordance with the current EPA Renovation, Repair and Repainting (RRP) Rule.

C. Save Harmless

1. The Contractor shall agree to indemnify and save harmless the Owner and all of its officers, agents, employees, the Architect, and all its officers, agents and employees from all suits, actions or claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons or property by or from the said Contractor or by or in consequence of any neglect in safeguarding the Work, or through the use of unacceptable materials in the construction of improvements, or by or on

account of any act or omission, neglect, misconduct or negligence of the Contractor.

1.3 PRECONSTUCTION SUBMITTALS

A. Within 10 days from the award of the contract and prior to the start of the work, submit the following items:

B. Preliminary Visual Assessment Report: The Contractor shall provide a written report to document the pre-remediation condition of the work areas, performed by a qualified Environmental Consultant.

C. Microbial Remediation Plan: Submit a job-specific, detailed abbreviated plan approved by the contractor's Certified Industrial Hygienist (CIH) for approval prior to start of work. The plan shall address the following items at a minimum:

1. Description of materials to be remediated, providing location and quantities, and methods to be used for remediation.

2. Products: Disinfectants, detergents, biocides, sanitizing solutions, and fungicidal agents, (EPA).

3. Containment procedures to include description and locations of engineering controls and decontamination unit to include entry and exit procedures (provide sketch of floor plan showing location of containment barriers and decontamination units). Include locations of Air Filtration Units (AFU) and AFU discharges to the outside.

4. Description of personal protective equipment to be used during the remediation.

5. Construction barricades and barriers in occupied areas.

6. HVAC Shut down and start-up procedures.

7. HVAC Evaluation and remediation procedures.

8. Moisture and relative humidity control procedures and equipment.

9. Packaging and disposal procedures.

10. Safety Precautions to include lockout / tag-out, fall protection, confined space entry procedures, and fire protection.

11. Description of the method to be employed to control cross contamination of areas not in the work area. Include a risk assessment related to the suitability of people to occupy areas adjoining the remediation area while remediation activities are ongoing.

12. CIH Quality Control procedures to include visual inspection.

13. Procedures to control, abate, and dispose of Asbestos Containing Materials (ACM), Presumed Asbestos Containing Materials (PACM) and Lead Based Paint (LBP) coincident with microbial remediation. ACM, PACM, and LBP shall be identified before work begins; Identify the presence, location, and quantity of ACM, PACM, and LBP therein pursuant to paragraphs (g),(k)(1) of 29 CFR 1926.1101 and for lead 29 CFR 1926.62.

D. Respiratory Protection Program: Provide written copy of Contractor's Respiratory Protection program.

E. Worker Records: Provide the following documents for all workers, including supervisory personnel. If new workers are added to the crew, provide the same documentation for them. Employee Instruction and Release Form: Provide documentation showing that each employee has been instructed on the following items:

1. Use and fit of respirators for employees entering and working in the Containment area.

2. Protective clothing.

3. Protective measures.

4. Safety and Emergency Egress Procedures.

5. Site specific fall protection plan and training.

6. Microbial remediation hazards and practices including engineering controls and isolation. Training should include "hands on" training for microbial remediation supervisors.

7. Workers' release forms stating the potential hazards involved with the scope of the work.

8. Worker Training Certification: Submit copies of training certificates for each employee indicating that the employee has received training at the appropriate level for the work prescribed in the description of work.

F. Certified Industrial Hygienist (CIH) Qualifications: Submit the name, address, and telephone number of the Certified Industrial Hygienist (CIH). Provide copies of board certificates, resume to document field experience, and evidence that the CIH have successfully completed training in microbial investigation and remediation.

G. Microbial Remediation Supervisor Qualifications: Onsite supervisor shall have one of the following certifications: Certified Microbial Remediator (CMR), Certified Microbial Remediation Supervisor (CMRS), or Applied Microbial Remediation Specialist (AMRS). Submit copies of supervisory training certificates.

1.4 PRODUCT DATA

A. Within 14 days of completion of remediation work submit:

1. Daily Project Logs including the following information.
   a. Date.
   b. Name of Microbial Remediation Supervisor.
   c. Name of CIF monitoring work area.
   d. Number of workers on site.
   e. Equipment utilized.
   f. Brief description of daily work activities.
   g. Listing of any non-compliance noted, emergencies, stop work orders and descriptions of any other significant events.

2. CIH Daily Reports.

3. Photographic Logs.

4. Contractor's Industrial Hygienist Report certifying the microbial remediation is complete.

5. The contractor shall submit to an initial Microbial Assessment Survey with containment categories and remediation methods specified for each work area and material within the work area to the COR. The initial Microbial Assessment Survey specified below shall be completed by a certified by a qualified assessor authorized by the Contracting Officer to do such work.

6. After approval of the initial visual assessment report and having instructions from the COR to proceed, prepare a microbial remediation plan for approval by the Contractor's Certified Industrial Hygienist (CIH). Include an assessment of the risk for people occupying areas adjoining the remediation area while remediation work occupying areas adjoining the remediation area while remediation work CIH approval of the plan, submit the plan to the COR or approval.

7. The Contractor's CIH shall monitor the site on a daily basis while remediation work is in progress, identifying work and work practices that are not in compliance with the approved microbial remediation plan, and performing all inspections required by this specification. The COR may require the removal of any individual for non-compliance with quality requirements specified in the contract.

1.5 MICROBIAL ASSESSOR REQUIREMENTS

A. General: The microbial assessor shall provide documentation proving that the assessor meets at least one of the following criteria:

1. Certification as an industrial hygienist (CIH) as certified by the American Board of Industrial Hygienists, safety professional (CSP) as certified by the Board of Certified Safety Professionals or engineer (PE). Additionally, one year experience in conducting microbial investigations is required.

1.6 QUALITY ASSURANCE / QUALITY CONTROL PROCEDURES

A. Superintendent Qualifications: Work shall be performed by a qualified remediation contractor. Superintendent shall carry insurance that specifically covers mold remediation.

1. Remediation contractors' on-site supervisor shall have one of the following certifications: Certified Microbial Remediator (CMR), Certified Microbial Remediation Supervisor (CMRS), or Applied Microbial Remediation Specialist (AMRS). Qualified supervisor shall be onsite whenever active remediation is being performed. Set-up activities may be performed without supervisor present; qualified supervisor shall review set-up prior to start of work.

2. Mold remediation workers shall be given training in PPE and mold remediation activities as required for their particular job. Microbial remediation plan shall provide details of worker training.

B. Use proper cleaning procedures, engineering controls, and apply best management practices to remove microbial growth and spore fallout from all surfaces and building materials to minimize the further release of microbial spores. Address semi-porous and nonporous surfaces within the

facility in each cleaning phase of the project. Damp wipe and HEPA vacuum all surfaces, at a minimum. Remove and dispose of porous building materials that are supporting microbial growth.

PART 2 - PRODUCTS

2.1 DISINFECTANTS, SANITIZING SOLUTIONS AND FUNGICIDAL AGENTS (EPA):

A. Disinfectants, sanitizing solutions and fungicidal agents shall be EPA registered for the use detailed in the microbial remediation plan and used in accordance with the manufacturer's specifications. Provide SDS sheets to the COR for any chemicals that shall be used during the performance of the work for approval.

1. Basis of Design: Concrobium OAE

B. HAZARD COMMUNICATION: Adhere to all parts of 29 CFR 1926.59 and provide the Contracting Officer with a copy of the Safety Data Sheets (SDS) for all materials brought to the site.

PART 3 - EXECUTION

3.1 EQUIPMENT: Provide manufacturer's certificate of compliance for all equipment used to contain the microbial contamination.

A. Respirators: Select respirators from those approved by the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services. Provide personnel engaged in set-up, pre-cleaning, cleanup, handling, and removal of contaminated materials with the appropriate respiratory protection as specified in 29 CFR 1910.134. Microbial remediation plan shall consider Table 17.1 in AIHA IMOM08-679 "Recognition, Evaluation, and Control of Indoor Mold", which lists the minimum levels of respiratory protection based on the activity and size of the remediated area.

B. Protective Clothing: Provide all workers with protective clothing as appropriate for the work being accomplished, as required by the Microbial Remediation Plan.

C. Warning Signs and Labels: Provide warning signs printed in English at all approaches to the work areas. Locate signs at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area. Warning signs may be in the form of continuous plastic tape. The warning signs shall have black characters on a yellow background.

i. WARNING
DO NOT ENTER
MICROBIAL REMEDIATION WORK IN PROGRESS

D. Dehumidifiers: Install and use dehumidifiers as needed during the remediation to maintain relative humidity below 60 percent in the work area. Drain the condensate water to a permanent drain, or empty as needed to prevent water overflowing from the dehumidifiers. IHFOM, CH 13, Sec. 3.

E. Air Filtration Units (AFU): Install and use AFUs with HEPA filters, and manufacturer specified pre-filters, as part of the exhaust ventilation system to develop and maintain the specified desired air pressure differential inside the enclosed work area relative to the outside areas. Acquire and pay for any licenses needed for use of any equipment, including but not limited to, air pressure differential systems and air filtration systems.

1. Replace HEPA filters and pre-filters for AFUs as required to maintain pressurization performance requirements during demolition and cleaning. Do not reuse filters. Bag used filters at a minimum in clear 0.15 millimeter 6 mil (IHFOM, CH 13, Sec. 3) polyethylene bags within the containment and disposed as contaminated waste.

2. Discharge air from any AFUs located in the work area containment to the outside environment when creating a negative pressure containment to create a negative pressure relative to the outside and adjacent work areas not undergoing active remediation of 5 pascals 0.02 inch H2O to 10 pascals 0.04 inch H20 AIHA IMOM08-679. Discharge air in excess of that required for creating the proper negative pressure to the work area. The AFUs shall provide four to six air changes per hour in the work area (ANSI/IICRC S520). Under no circumstances may air from AFUs discharge to an occupied area. Coordinate location of window sashes or doors required for discharge openings with the COR. Exhaust discharge openings may be constructed of plywood, and the seals around such opening shall be airtight.

3. Seal all exhaust and intake openings in AFUs with one layer of 0.15 millimeters 6 mil (IHFOM, CH 13, Sec. 3) polyethylene sheeting when not in use.

F. Vacuum Cleaners Equipped with HEPA Filters: Provide vacuum cleaners equipped with HEPA filters designed for continuous operation in order to complete the work in a timely and efficient manner.

1. Provide nozzle attachments as required to adequately remove all dust. As a minimum, nozzle attachments shall include crevice and extended bristle brush nozzles. Any vacuum that is not equipped with a HEPA filter shall not be used at any time.

2. Provide sufficient vacuum cleaners equipped with HEPA filters designed for continuous operation in the work area during microbial remediation inside the containment area.

3. Provide additional vacuum cleaners equipped with HEPA filters in the enclosed work area during remediation or cleaning work as required by the size (area) of the containment and to maintain timely progress of the work.

3.2 GENERAL REQUIREMENTS:

A. Pre-Microbial Remediation Work Conference: Meet prior to beginning work to discuss in detail the Microbial Remediation Plan, including work procedures and safety precautions. Once approved by the Owner, the plan shall be enforced as if a part of this specification. Any variances to the specification as a result of the plan shall be specifically identified to allow for free discussion and approved in writing prior to starting work. Before work in areas with Asbestos Containing Materials (ACM), Presumed Asbestos Containing Materials (PACM) and Lead begins, identify the presence, location, and quantity of ACM, PACM and Lead. Ensure proper notification of regulatory authorities. Consult with Onwer to obtain facility ACM / LBP surveys. Mitigate any disturbance of painted/coated surfaces in accordance with 29 CFR 1926.62, 29 CFR 1926.1126 and 29 CFR 1926.1127.

B. Containment Entry / Exit Procedure: Ensure that each worker and authorized visitor follows entry and exit procedures detailed in the Microbial Remediation Plan.

3.3 REMOVAL PROCEDURES

A. Protection of Existing Work Areas: Perform work in a manner to minimize the damage or contamination to areas outside or directly adjacent to the work area. Inspect areas inside and outside proposed work areas to identify existing damage and notify Owner prior to start of work.

Where materials outside work area are damaged or contaminated as a result of the Contractors work efforts using visual inspection or sample analysis, it shall be restored to its original condition or decontaminated by the Contractor at no expense to the Owner. Should adjacent or outside areas become contaminated as a result of the Contractor's work efforts, stop work immediately. Clean the newly contaminated areas at no additional expense to the Owner. The work may proceed at the discretion of the Owner once the area has been verified by visual inspection as restored.

B. Remediation of Fungally Contaminated Building Materials: The removal of contaminated materials shall follow in general the listed sequence of work. The Contractor may make changes to improve workflow with the approval of the Owner.

1. Provide level of containment and PPE required by the Microbial Remediation Plan.

2. Disable all HVAC units and exhaust fans in the area to be remediated. Cover and seal all supply vents, return vents, and air handling units in the project area using two layers of 0.15-millimeter 6 mil poly (IHFOM, CH 13, Sec. 3).

3. Protect materials to remain in work area. Where possible, clean all materials to be salvaged in place to prevent possible cross-contamination created by moving materials through non-remediation areas.

4. Remove undamaged items and materials to be cleaned and salvaged from the work area. Store materials in an area with relative humidity maintained below 60 percent and where temperatures shall not damage the material. Notify Owner of existing damage to items prior to removal.

5. Set up containments, including protection of materials remaining within the containment and AFUs. Notify Owner that the area is prepared for remediation activities.

6. Pre-demolition inspection by the Owner.

7. Demolition and removal / cleaning of contaminated materials.

8. Post-remediation inspection by the Owner.

9. Perform final cleaning in the containment.

10. Clearance inspection by the Owner.

11. Duct and HVAC cleaning, if necessary.

12. Deconstruction of containment, removal of AFUs.

13. Return previously items that were removed and cleaned to the occupied area.

C. Remediation Procedures:

1. Remediation of Non-Porous Materials:

a. HEPA vacuum all surfaces.

b. Damp wipe all surfaces using clean water or a detergent solution.

c. Ensure all cleaned surfaces are dried thoroughly.

2. Semi-Porous Materials (Unfinished Wood): Use this method for remediating unfinished wood-based items, including wood and wood framing in wall cavities:

a. Cleaning

1) HEPA vacuum all surfaces.

2) Scrub surfaces with a brush and detergent to remove mold.

3) Ensure all cleaned surfaces are dried thoroughly.

4) HEPA vacuum all surfaces to remove dust.

5) Repair finishes as required to match original.

b. Removal: Where unfinished wood products have been structurally damaged, remove and replace with an equivalent materials. This includes wall studs and sheathing, flooring, or wall construction. Lightly mist mold contaminated material before removal.

3. Semi-Porous Materials: Use this method for surface cleaning semi-porous materials such as concrete, masonry, plaster, and finished wood products:

a. HEPA vacuum all surfaces.

b. Damp wipe surfaces using clean water or a detergent solution. Avoid over-wetting the material. Ensure all materials are dried thoroughly.

3.4 DETAILED SEQUENCE OF WORK FOR MOLD REMOVAL UNDER CONTAINMENT

A. Preparation for Remediation Work

1. Provide level of containment and PPE required for the remediation based on the Microbial Remediation Plan.

2. Remove undamaged materials from the work area if they are to be salvaged but cannot be cleaned in place. Store materials in an area with relative humidity maintained below 60 percent (IHFOM, CH 13, Sec.3) and where temperatures shall not damage the material. Notify Contracting Officer of existing damage to items prior to removal. Clean materials using procedures detailed in Remediation Procedures.

3. Construct containment barriers. Existing walls can be used as a portion of the containment barriers if existing openings in walls (such as doors, wall openings, vents) are sealed using 0.15 millimeter 6 mil polyethylene.

4. Install the AFUs and dehumidifiers.

5. Seal supply, return, and exhaust openings with 0.15 millimeter 6 mil polyethylene sheeting and protect intakes to air handling units.

6. Install all equipment needed for removal work in the containment area to minimize egress during demolition.

7. Inspect the containment to verify that the containment is properly constructed and the containment area has an overall negative pressure of 5 to 10 pascals 0.02 to 0.04 inch water column AIHA IMOM08-679 relative to the outside and adjacent work areas not undergoing active remediation, prior to beginning demolition work.

B. Demolition

1. Remove mold contaminated materials to be discarded. double bag material in 0.15 millimeter 6 mil (IHFOM, CH 13, Sec. 3) poly bags. Seal poly bags using duct tape inside the containment. HEPA vacuum bags before removing them from the containment or airlock. When possible, pass the bags directly from the containment or airlock to the outside. Transport bags to a dumpster. Do not leave the bags in the building.

2. Lightly mist all contaminated materials that are being discarded to minimize generation of airborne mold spores during demolition/removal.

3. Use dust collection attachments on all power tools, such as sanders, saws, to capture dust created when using the tools. Outlet of dust collector should discharge into inlet of AFU.

4. If wood studs are contaminated, HEPA vacuum all surfaces, scrub them with a brush and detergent to remove mold. After scrubbing studs, HEPA vacuum again to remove any remaining dust. Replace wood studs with damage severe enough to reduce the structural capacity of the member. Prior to removal of any structural member consult with the Architect.

5. Clean all metal framing with a dilute detergent solution. Clean metal framing with light rust using steel wool and coat with a rust inhibiting paint. Replace metal framing with rust damage severe enough to reduce the structural capacity of the member. Prior to removal of any structural material, consult with the Architect.

6. Remediation workers shall HEPA vacuum their PPE, then remove their PPE within the airlock chamber. Discard disposable coverall suits into a 0.15 millimeter 6 mil (IHFOM, CH 13, Sec. 3) poly bag.

C. Post-Demolition Inspection

1. Inspect the containment area to verify that all contaminated materials have been removed.

2. Allow a minimum of 12-hours after completion of removal work, with AFUs operating, for airborne dust in the containment to settle or be removed by the AFUs.

D. Cleaning after Demolition, and Cleaning of Settled Spores from Porous / Non-Porous Materials

1. Continue to operate AFUs during cleaning.

2. Clean exposed surfaces.
    1. HEPA vacuum all surfaces.
    2. Damp wipe all non-porous exposed surfaces including polyethylene sheets used to protect materials, external surfaces of ductwork, studs, and floors with clean rag and clean potable water or detergent solution.
    3. Remove poly sheeting inside the containment.
    4. HEPA vacuum all surfaces protected by poly sheeting.

5. Damp wipe non-porous surfaces protected by poly sheeting with clean water or a detergent solution.

3. Final clearance inspections shall be performed using the procedures detailed in Post-Remediation Inspection. If areas fail final clearance inspections, additional corrective actions taken by the contractor shall be at no additional cost to the Owner. Maintain containments in place until spaces are inspected and accepted by the Owner as being fully remediated. The Owner shall determine whether additional cleaning is required by the Contractor and whether the clearance process shall be repeated.

3.5 FIRE PROTECTION: Provide portable fire extinguishers within the containment area and outside the decontamination unit. Fire extinguishers shall be rated for the class of fire hazards in the work area and shall be sized for coverage of the areas within the containment. At a minimum, one 10 pound ABC fire extinguisher for every 1,000 square feet shall be strategically placed around the containment. Personnel shall be trained for emergency egress and the use of fire extinguishers. Notify fire officials of work activities as required.

3.6 CONSTRUCTION BARRIERS:

A. Provide interior shoring, bracing, or support to prevent movement, settlement, or collapse of structure or element to be demolished and adjacent facilities or work to remain. Shoring, bracing or support shall be necessary when structural wood studs or metal framing need to be removed and replaced when they cannot be cleaned.

B. Do not disturb microbial-contaminated building materials while isolating work areas. This precaution prevents the release of microbial spores.

C. Workers shall wear respirators and other PPE as outlined in the microbial remediation plan when installing critical barriers where microbial contaminated surfaces (walls or surfaces with visible settled dusts) are likely to be disturbed. Operate an AFU if disturbance is likely during setup.

D. Monitor the air pressure differential across work area containments. The monitoring system shall be in place before the start of remedial activities. Verification by the Industrial Hygienist is required prior to the start of the microbial remediation.

3.7 WASTE MANAGEMENT AND REMOVAL

A. Keep the site and work area free from accumulations of dust, waste materials, or rubbish caused by Contractor operations and free from any flammable materials or other sources of fire hazard. Remove all waste materials and rubbish from and about the work site in strict accordance with the specifications and applicable codes and regulations.

3.8 POST-REMEDIATION INSPECTION

A. Clean up all debris and dust in interior spaces outside the work area resulting from the Contractor's remediation work. After all visible accumulations of material and debris are removed from the containment, provide the COR a 24-hour notice for a final clearance visual inspection. The COR and Contractor's CIH shall conduct a thorough visual inspection of the work area. If during this inspection any visible debris or microbial contamination are observed, the Contractor shall re-clean the work area without additional cost to the Owner.

3.9 CLEARANCE

A. Clearance shall be based on visual assessment (all visible mold removed, all visible dust removed, based on a "white glove" test) by Owner. "White glove" test shall consist of wiping the surface with a clean cloth of color suitable to reveal expected type of dust. For most surfaces, a white cloth is suitable. For GWB dust, a dark cloth may be more appropriate.

B. Failed remediation areas shall be recleaned at no additional cost to the Owner and the AFUs kept in operation another 12-hours, followed by another visual assessment. Subsequent failures shall follow the same routine until a pass condition is secured.

3.10 CLEAN-UP AND DISPOSAL

A. Disposal of Material: Dispose of contaminated bagged waste materials removed during this remediation as general construction debris. Follow all applicable local, State, and Federal requirements for the disposal of this material.

B. Material Packaging: Place waste, as waste is removed, into a disposal container promptly. Disposal containers shall consist of at a minimum, two layers of clear 0.15-millimeter 6 mil (IHFOM, CH 13, Sec. 3) polyethylene bags. Tape bags in a gooseneck fashion to form an airtight seal and label appropriately. Bag waste from vacuums equipped with HEPA filters in 0.15-millimeter 6 mil (IHFOM, CH 13, Sec. 3) polyethylene bags.

C. Building Exit (Waste Disposal): HEPA vacuum and damp wipe bags of contaminated waste material prior to removal from the building. When possible, pass the bags directly from the containment or airlock to the outside. Transport bags to a dumpster.

D. Hazardous Material: Should the Contractor encounter any hazardous materials, notify the Owner immediately for direction.

END OF SECTION 028500

SECTION 088000
GLAZING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Insulating glass units.

B. Glazing units.

C. Laminated glass interlayers.

D. Glass coatings.

E. Glazing compounds.

1.02 RELATED REQUIREMENTS

A. Section 081113 - Hollow Metal Doors and Frames: Glazed lites in doors and borrowed lites.

B. Section 081416 - Flush Wood Doors: Glazed lites in doors.

C. Section 081433 - Stile and Rail Wood Doors: Glazed lites in doors.

D. Section 085200 - Wood Windows: Glazing provided by window manufacturer.

E. Section 088700 - Architectural Window Films

1.03 REFERENCE STANDARDS

A. 16 CFR 1201 - Safety Standard for Architectural Glazing Materials Current Edition.

B. ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test 2015 (Reaffirmed 2020).

C. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures Most Recent Edition Cited by Referring Code or Reference Standard.

D. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers 2005 (Reapproved 2019).

E. ASTM C1036 - Standard Specification for Flat Glass 2021.

F. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass 2018.

G. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass 2019.

H. ASTM C1193 - Standard Guide for Use of Joint Sealants 2016.

I. ASTM C1376 - Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass 2021a.

J. ASTM E903 - Standard Test Method for Solar Absorptance, Reflectance, and Transmittance of Materials Using Integrating Spheres 2020.

K. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings 2016.

L. ASTM F1233 - Standard Test Method for Security Glazing Materials And Systems 2021.

M. GANA (GM) - GANA Glazing Manual 2022.

N. GANA (SM) - GANA Sealant Manual 2008.

O. GANA (LGRM) - Laminated Glazing Reference Manual 2019.

P. ICC (IBC) - International Building Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

Q. IGMA TM-3000 - North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial & Residential Use 1990 (2016).

R. NFRC 100 - Procedure for Determining Fenestration Product U-factors 2023.

S. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence 2023.

T. NFRC 300 - Test Method for Determining the Solar Optical Properties of Glazing Materials and Systems 2023.

1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Product Data on Insulating Glass Unit and Glazing Unit Glazing Types: Provide structural, physical and environmental characteristics, size limitations, special handling and installation requirements.

C. Product Data on Glazing Compounds and Accessories: Provide chemical, functional, and environmental characteristics, limitations, special application requirements, and identify available colors.

D. Samples: Submit two samples 12 inches by 12 inches in size of glass units.

E. Samples: Submit 6 inch long bead of glazing sealant, color as selected.

F. Certificate: Certify that products of this section meet or exceed specified requirements.

G. Manufacturer's qualification statement.

H. Installer's qualification statement.

I. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

A. Perform Work in accordance with GANA (GM), GANA (SM), GANA (LGRM), and IGMA TM-3000 for glazing installation methods.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

C. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience.

1.06 MOCK-UPS

A. Provide mock-up of Restored Historic Window Unit Glazing including glass.

B. Provide on-site glazing mock-up with the specified glazing components.

C. Locate where directed.

1.07 FIELD CONDITIONS

A. Do not install glazing when ambient temperature is less than 40 degrees F.

B. Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.08 WARRANTY

A. See Section 017800 - Closeout Submittals for additional warranty requirements.

B. Insulating Glass Units: Provide a five (5) year manufacturer warranty to include coverage for seal failure, interpane dusting or misting, including providing products to replace failed units.

C. Laminated Glass: Provide a five (5) year manufacturer warranty to include coverage for delamination, including providing products to replace failed units.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Float Glass Manufacturers:
   1. Cardinal Glass Industries; _____: www.cardinalcorp.com/#sle.
   2. Guardian Glass, LLC; _____: www.guardianglass.com/#sle.
   3. Pilkington North America Inc; _____: www.pilkington.com/na/#sle.
   4. Saint Gobain North America; _____: www.saint-gobain.com/#sle.
   5. Vitro Architectural Glass (formerly PPG Glass); _____: www.vitroglazings.com/#sle.

B. Laminated Glass Manufacturers:
   1. Cardinal Glass Industries; _____: www.cardinalcorp.com/#sle.
   2. Viracon, Architectural Glass segment of Apogee Enterprises, Inc; _____: www.viracon.com/#sle.

2.02 PERFORMANCE REQUIREMENTS - EXTERIOR GLAZING ASSEMBLIES

A. Provide type and thickness of exterior glazing assemblies to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of glass.
   1. Design Pressure: Calculated in accordance with ASCE 7.
   2. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
   3. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths under specified design load.
   4. Glass thicknesses listed are minimum.

B. Weather-Resistive Barrier Seals: Provide completed assemblies that maintain continuity of building enclosure water-resistive barrier, vapor retarder, and/or air barrier.
   1. In conjunction with weather barrier related materials described in other sections, as follows:

C. Thermal and Optical Performance: Provide exterior glazing products with performance properties as indicated. Performance properties are in accordance with manufacturer's published data as determined with the following procedures and/or test methods:
   1. Center of Glass U-Value: Comply with NFRC 100 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
   2. Center of Glass Solar Heat Gain Coefficient (SHGC): Comply with NFRC 200 using Lawrence Berkeley National Laboratory (LBNL) WINDOW 6.3 computer program.
   3. Solar Optical Properties: Comply with NFRC 300 test method.

2.03 GLASS MATERIALS

A. Float Glass: Provide float glass based glazing unless otherwise indicated.
   1. Annealed Type: ASTM C1036, Type I - Transparent Flat, Class 1 - Clear, Quality - Q3.
   2. Kind HS - Heat-Strengthened Type: Complies with ASTM C1048.
   3. Kind FT - Fully Tempered Type: Complies with ASTM C1048.
   4. Fully Tempered Safety Glass: Complies with ANSI Z97.1 or 16 CFR 1201 criteria for safety glazing used in hazardous locations.
   5. Thicknesses: As indicated; provide greater thickness as required for exterior glazing wind load design.

B. Laminated Glass: Float glass laminated in accordance with ASTM C1172.
   1. Laminated Safety Glass: Complies with ANSI Z97.1 - Class B or 16 CFR 1201 - Category I impact test requirements.
   2. Polyvinyl Butyral (PVB) Interlayer: 0.030 inch thick, minimum.

2.04 BASIS OF DESIGN - INSULATING GLASS UNITS

A. Type GL-3 - Insulating Glass Units: Vision glazing, with low-e coating.
   1. Applications: Exterior insulating glass glazing unless otherwise indicated.
   2. Space between lites filled with air.
   3. Total Thickness: 1 inch.
   4. Thermal Transmittance (U-Value), Winter - Center of Glass: 0.28, nominal.
   5. Solar Heat Gain Coefficient (SHGC): 0.28
   6. Visible Light Transmittance (VLT): 68
   7. Coated Glass: Comply with requirements of ASTM C1376 for pyrolytic (hard-coat) or magnetic sputter vapor deposition (soft-coat) type coatings on flat glass; coated vision glass, Kind CV; coated overhead glass, Kind CO; or coated spandrel glass, Kind CS.
   8. Spacer Color: Black.
   9. Edge Seal:

10. Color: Black.
11. Purge interpane space with dry air, hermetically sealed.
12. Basis of Design - Vitro Architectural Glass (formerly PPG Glass): www.vitroglazings.com/#sle.
13. Outboard Lite: Annealed, low-iron float glass, 1/4 inch thick, minimum.
    a. Low-E Coating: Vitro Architectural Glass (formerly PPG Glass) Solarban 72 on #2 surface.
    b. Glass: Starphire (Ultra Clear).
14. Inboard Lite: Heat-strengthened, low-iron float glass, 1/4 inch thick.
    a. Glass: Starphire (Ultra Clear).

2.05 GLAZING UNITS

A. Type GL-4 - Monolithic Storm Window Glazing:
   1. Applications: Interior and Exterior Storm Windows Installed at all Existing-to-Remain Restored Windows.
   2. Glass Type: Annealed float glass, ultra-clear, low-iron.
   3. Tint: Clear.
   4. Thickness: 1/4 inch, nominal.
   5. Visible Light Transmittance (VLT): 68% percent, nominal.
   6. Solar Heat Gain Coefficient (SHGC): 0.28, nominal.
   7. Manufacturers:
      a. Basis-of-Design: Vitro Solarban 72 on Starphire Ultraclear glass

B. Type GL-1 - Monolithic Interior Vision Glazing:
   1. Applications: Interior glazing unless otherwise indicated.
   2. Glass Type: Annealed float glass.
   3. Tint: Clear.
   4. Thickness: 1/4 inch, nominal.

C. Type GL-2 - Laminated glass, 2-ply.
   1. Applications: Locations as indicated on drawings.
   2. Tint: Clear.
   3. Thickness: As required to meet performance criteria.
   4. Outside Lite: Heat-strengthened glass.
   5. Interlayer: Polyvinyl butyral (PVB); thickness as required to meet performance criteria.
   6. Middle Lite: Heat-strengthened glass.
   7. Interlayer, Inboard Side: Polyvinyl butyral (PVB); thickness as required to meet performance criteria.
   8. Inside Lite: Heat-strengthened glass.

D. Type GL-5 - Monolithic Glass
   1. Applications: Replacement glass lites for restoration of historic windows
   2. Glass Type: Annealed float glass
   3. Tint: Clear
   4. Thickness: 1/8"

2.06 LAMINATED GLASS INTERLAYERS

A. Sound Control Polyvinyl Butyral (PVB) Interlayer for Laminated Glazing:
   1. Functionality: Post-breakage safety, security, and sound control.
   2. Applications:
      a. Single pane, laminated glass unit, Type GL-2.
   3. Color: Clear.
   4. Thickness: As required for indicated performance of laminated glass application.
   5. Improvement in Sound Transmission: Up to 3 dB.
   6. Manufacturers:
      a. Eastman Chemical Company; Saflex Acoustic PVB Interlayer: www.saflex.com/#sle.
      b. Kuraray America, Inc; Trosifol Sound Control (SC): www.kuraray.us.com/#sle.

c. Sekisui S-LEC America, LLC; S-LEC Sound Acoustic Film: www.s-lec.us/#sle.

2.07 ACCESSORIES

A. Setting Blocks: Silicone, with 80 to 90 Shore A durometer hardness; ASTM C864 Option II. Length of 0.1 inch for each square foot of glazing or minimum 4 inch by width of glazing rabbet space minus 1/16 inch by height to suit glazing method and pane weight and area.

B. Spacer Shims: Neoprene, 50 to 60 Shore A durometer hardness; ASTM C864 Option II. Minimum 3 inch long by one half the height of the glazing stop by thickness to suit application, self adhesive on one face.

C. Glazing Tape, Back Bedding Mastic Type: Preformed, butyl-based, 100 percent solids compound with integral resilient spacer rod applicable to application indicated; 5 to 30 cured Shore A durometer hardness; coiled on release paper; black color.
   1. Width: As required for application.
   2. Thickness: As required for application.
   3. Spacer Rod Diameter: As required for application.

PART 3 EXECUTION

3.01 VERIFICATION OF CONDITIONS

A. Verify that openings for glazing are correctly sized and within tolerances, including those for size, squareness, and offsets at corners.

B. Verify that surfaces of glazing channels or recesses are clean, free of obstructions that may impede moisture movement, weeps are clear, and support framing is ready to receive glazing system.

C. Proceed with glazing system installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Clean contact surfaces with appropriate solvent and wipe dry within maximum of 24 hours before glazing. Remove coatings that are not tightly bonded to substrates.

B. Seal porous glazing channels or recesses with substrate compatible primer or sealer.

C. Prime surfaces scheduled to receive sealant where required for proper sealant adhesion.

3.03 INSTALLATION, GENERAL

A. Install glazing in compliance with written instructions of glass, gaskets, and other glazing material manufacturers, unless more stringent requirements are indicated, including those in glazing referenced standards.

B. Install glazing sealants in accordance with ASTM C1193, GANA (SM), and manufacturer's instructions.

C. Set glass lites of system with uniform pattern, draw, bow, and similar characteristics.

D. Set glass lites in proper orientation so that coatings face exterior or interior as indicated.

E. Prevent glass from contact with any contaminating substances that may be the result of construction operations such as, and not limited to the following; weld splatter, fire-safing, plastering, mortar droppings, etc.

3.04 FIELD QUALITY CONTROL

A. Glass and Glazing product manufacturers to provide field surveillance of the installation of their products.

B. Monitor and report installation procedures and unacceptable conditions.

3.05 PROTECTION

A. After installation, mark pane with an 'X' by using removable plastic tape or paste; do not mark heat absorbing or reflective glass units.

B. Remove and replace glass that is damaged during construction period prior to Date of Substantial Completion.

END OF SECTION 088000

SECTION 096500
RESILIENT FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Resilient tile flooring.

B. Static control resilient tile flooring.

C. Resilient base.

D. Resilient stair accessories.

E. Installation accessories.

1.02 RELATED REQUIREMENTS

A. Section 016116 - Volatile Organic Compound (VOC) Content Restrictions.

B. Section 033000 - Cast-in-Place Concrete: Restrictions on curing compounds for concrete slabs and floors to receive adhesive-applied resilient flooring.

C. Section 090561 - Common Work Results for Flooring Preparation: Removal of existing floor coverings, cleaning, and preparation.

D. Section 090561 - Common Work Results for Flooring Preparation: Concrete slab moisture and alkalinity testing and remediation procedures.

E. Section 260526 - Grounding and Bonding for Electrical Systems: Grounding and bonding of static control flooring to building grounding system.

F. Section 260539 - Underfloor Raceways for Electrical Systems: Electrical floor cover plates for installation of resilient flooring specified in this section.

1.03 REFERENCE STANDARDS

A. ASTM D6329 - Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers 1998 (Reapproved 2023).

B. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements 2009 (Reapproved 2016).

C. ASTM E492 - Standard Test Method for Laboratory Measurement of Impact Sound Transmission through Floor-Ceiling Assemblies Using the Tapping Machine 2022.

D. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source 2019a, with Editorial Revision (2020).

E. ASTM F150 - Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring 2006 (Reapproved 2018).

F. ASTM F710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring 2022.

G. ASTM F1344 - Standard Specification for Rubber Floor Tile 2021a.

H. ASTM F1861 - Standard Specification for Resilient Wall Base 2021.

I. ASTM F2169 - Standard Specification for Resilient Stair Treads 2015 (Reapproved 2020).

J. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes 2019a.

K. NSF 332 - Sustainability Assessment for Resilient Floor Coverings 2022.

L. UL 2824 - GREENGUARD Certification Program Method for Measuring Microbial Resistance from Various Sources Using Static Environmental Chambers Current Edition, Including All Revisions.

1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

C. Shop Drawings: Indicate seaming plans and floor patterns.

D. Selection Samples: Unless the Basis of Design Product was furnished, the specified item requires color/finish selections to be made by the Architect from a physical color chart or physical sample submittals.

E. Verification Samples: Submit two samples, 12 by 12 inch12 in size illustrating color and pattern for each resilient flooring product specified.

F. Electronic submittals for color, pattern, texture, or similar characteristics are not acceptable.

G. Sustainable Design Submittal: Submit VOC content documentation for flooring and adhesives.

H. Concrete Subfloor Test Report: Submit a copy of the moisture and alkalinity (pH) test reports.

I. Certification: Prior to installation of flooring, submit written certification by flooring manufacturer and adhesive manufacturer that condition of subfloor is acceptable.

J. Manufacturer's Qualification Statement.

K. Installer's Qualification Statement.

L. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

M. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 016000 - Product Requirements, for additional provisions.
   2. Extra Flooring Material: 10 percent of each type and color.
   3. Extra Wall Base: 5 percent of each type and color.
   4. Extra Stair Materials: Quantity equivalent to 5 percent of each type and color.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing specified flooring with minimum three years documented experience.

B. Installer Qualifications: Company specializing in installing specified flooring with minimum three years documented experience.

C. Testing Agency Qualifications: Independent firm specializing in performing concrete slab moisture testing and inspections of the type specified in this section.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run numbers.

B. Store all materials off of the floor in an acclimatized, weather-tight space.

C. Maintain temperature in storage area between 55 degrees F and 90 degrees F.

D. Protect roll materials from damage by storing on end.

E. Do not double stack pallets.

1.07 FIELD CONDITIONS

A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.01 SHEET FLOORING

2.02 TILE FLOORING

A. Rubber Tile - Type RF-1: Homogeneous, color and pattern throughout thickness.
   1. Manufacturers:
      a. Flexco Corporation; Distinct Designs Rubber Tile: www.flexcofloors.com/#sle.

b. Johnsonite, a Tarkett Company; _____: www.johnsonite.com/#sle.
c. Mannington Commercial; _____: www.manningtoncommercial.com#sle.
d. Roppe Corporation; Rubber Tile: www.roppe.com/#sle.

2. Minimum Requirements: Comply with ASTM F1344, of Class corresponding to type specified.
3. VOC Content Limits: As specified in Section 016116.
4. Size: 18 by 18 inch nominal.
5. Wear Layer Thickness: 0.040 inch.
6. Total Thickness: 0.125 inch.
7. Texture: Hammered.
8. Color: To be selected by Architect from manufacturer's full range.

B. Rubber Tile - Type[RF-2]: Homogeneous, color and pattern throughout thickness.
1. Manufacturers:
a. Flexco Corporation; Distinct Designs Rubber Tile: www.flexcofloors.com/#sle.
b. Johnsonite, a Tarkett Company;[____]: www.johnsonite.com/#sle.
c. Mannington Commercial;[____]: www.manningtoncommercial.com#sle.
d. Roppe Corporation; Rubber Tile: www.roppe.com/#sle.
2. Minimum Requirements: Comply with ASTM F1344, of Class corresponding to type specified.
3. VOC Content Limits: As specified in Section 016116.
4. Size: 18 by 18 inch (457 by 457 mm) nominal.
5. Wear Layer Thickness: 0.040 inch (1 mm).
6. Total Thickness: 0.125 inch (3.2 mm).
7. Texture: Hammered.
8. Color: To be selected by Architect from manufacturer's full range.

C. ELECTROSTATIC DISCHARGE TILE - Type SDT-1: Homogeneous; color and pattern throughout thickness.
1. Manufacturers:
a. Flexco Corporation; Delane ESD Vinyl: www.flexcofloors.com/#sle.
b. Mannington Commercial; _____: www.manningtoncommercial.com#sle.
c. Roppe Corporation; ESD Rubber Static Control Tile: www.roppe.com/#sle.
d. Substitutions: See Section 016000 - Product Requirements.
2. Minimum Requirements: Rubber tile complying with ASTM F1344, Class 1, Type B.
3. Electrical Resistance:
a. Conductive Tile: Resistance between 25 kiloohms and 1.0 megohms as tested in accordance with ASTM F150.
b. Dissipative Tile: Resistance between 1.0 megohms and 1000 megohms as tested in accordance with ASTM F150.
4. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
5. VOC Content Limits: As specified in Section 016116.
6. Tile Size: 12 by 12 inch.
7. Total Thickness: 0.125 inch.
8. Color: To be selected by Architect from manufacturer's full range.

D. QUARTZ TILE - through-pattern Quartz vinyl tile made from polyvinyl esters and inorganic fillers materials formed under heat and pressure and cut to create resilient tile flooring in a variety of sizes, colors and linear patterns.
1. **Type QT-1: Quartz Tile**
a. Basis of Design Product: Subject to compliance, provide **Kahrs Upofloor Quartz Lines, Kahrs International**, Upofloor Commercial Division. 800.800.5247, www.kahrs.com or Approved Equal that meets all of the technical, performance, and aesthetic characteristics of the following.
b. Requirements:
1) Class 1 per ASTM E 648

2) Size: **12 x 24**
3) Thickness: **0.080 inches**
4) Color: **8203 GABBRO GREY**
5) Composition: Quartz Vinyl tile formulated from PVC with through-pattern and solid-color cosntruction
6) Surface: Type A, Smooth
7) Recyled Content: 15%
8) Manufacturer Warranty. Provide manufacturer's non-prorated fifteen (15) year limited warranty to be free from defects in material and workmanship, under normal use and service, to repair or replace all defective tiles including reasonable labor.

2. **Type QT-2: Quartz Tile**
   a. Basis of Design Product: Subject to compliance, provide **Kahrs Upofloor Quartz Lines, Kahrs International,** Upofloor Commercial Division. 800.800.5247, www.kahrs.com or Approved Equal that meets all of the technical, performance, and aesthetic characteristics of QZ-1, above
   b. Requirements:
      1) Color: 8202 Conglomerate Grey

2.03 STAIR COVERING

A. Stair Treads with Integral Risers: Rubber; full height of riser, full width and depth of tread in one piece; tapered thickness.
   1. Manufacturers:
      a. Flexco Corporation; Heavy Duty One-Piece Tread with Riser: www.flexcofloors.com/#sle.
      b. Johnsonite, a Tarkett Company; _____: www.johnsonite.com.
      c. Mannington Commercial; _____: www.manningtoncommercial.com#sle.
      d. Roppe Corporation; _____: www.roppe.com/#sle.
   2. Minimum Requirements: Comply with ASTM F2169, Type TS, rubber, vulcanized thermoset.
   3. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
   4. Nominal Thickness: 0.1875 inch.
   5. Nosing: Square.
   6. Tread Texture: Raised.
   7. Color: To be selected by Architect from manufacturer's full range.

2.04 RESILIENT BASE

A. Resilient Base - Type RB-1 and RB-2: ASTM F1861, Type TS, rubber, vulcanized thermoset; style as scheduled.
   1. Manufacturers:
      a. Flexco Corporation; Base Sculptures: www.flexcofloors.com/#sle.
      b. Johnsonite, a Tarkett Company; _____: www.johnsonite.com/#sle.
      c. Mannington Commercial; _____: www.manningtoncommercial.com#sle.
      d. Roppe Corporation; Contours Profiled Wall Base System: www.roppe.com/#sle.
   2. Height: 4 inches.
   3. Style: Cove
   4. Thickness: 0.125 inch.
   5. Finish: Satin.
   6. Length: Roll.
   7. Color: To be selected by Architect from manufacturer's full range.
   8. Accessories: Premolded external corners and internal corners.

2.05 ACCESSORIES

A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.

B. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.
   1. VOC Content Limits: As specified in Section 016116.

C. Transition and Edge Strips: rubber. Refer to Floor Finish Transitions for locations.
   1. Basis of Design Product: Subject to compliance, provide **JOHNSONITE TRANSITION STRIP, CTA-XX-A** or Approved Equal that meets all of the technical, performance, and aesthetic characteristics of the product.
   2. Basis of Design Product: Subject to compliance, provide **JOHNSONITE REDUCER STRIP, CTA-XX-P** or Approved Equal that meets all of the technical, performance, and aesthetic characteristics of the product.
   3. Basis of Design Product: Subject to compliance, provide **JOHNSONITE REDUCER STRIP, RRS-XX-C** or Approved Equal that meets all of the technical, performance, and aesthetic characteristics of the product.

D. Transition and Edge Strips: Metal. Refer to Floor Finish Transitions for locations.
   1. Basis of Design: Subject to compliance, provide **Schluter®-RENO-U, Schlutter Systems**, Approved Equal that meets all of the technical, performance, and aesthetic characteristics of the product.
      a. Schluter®-RENO-U is designed to provide a smooth transition between tile coverings and floor coverings at lower elevations or finished concrete. RENO-U features a trapezoid-perforated anchoring leg, which is secured in the mortar bond coat beneath the tile, and a sloped surface (approximately 25°) that eliminates trip hazards and protects tile edges. The leading edge of the profile abuts the lower surface covering. RENO-U, in aluminum, features an integrated joint spacer that establishes a defined joint cavity between the tile and the profile.
      b. Material: Anodized aluminum.
      c. ADA Compliance: Select ADA Compliant size. In installations where the leading edge abuts a lower surface covering, all sizes of RENO-U, except the 3/4" (20 mm) and 11/16" (17.5 mm), are compliant with the Americans with Disabilities Act (ADA). In installations where the leading edge rests on top of the lower floor covering (e.g., finished concrete), the 3/4" (20 mm), 11/16" (17.5 mm), and 9/16" (15 mm) sizes are not ADA-compliant.
   2. Basis of Design: Subject to compliance, provide **Schluter®-RENO-RAMP-K, Schlutter Systems,** Approved Equal that meets all of the technical, performance, and aesthetic characteristics of the product.
      a. The RENO-RAMP-K profile is designed to be bonded to existing floor coverings.
      b. Creates smooth transitions to eliminate trip hazards
      c. Suitable for wheel carts in commercial applications
      d. ADA Compliance: Select ADA Compliant size.
      e. RENO-RAMP is installed in conjunction with the tile and features an anchoring leg which is embedded in the tile bond coat
   3. Manufacturers:
      a. Mannington Commercial; ____: www.manningtoncommercial.com#sle.
      b. Flexco Corporation; Base Sculptures: www.flexcofloors.com/#sle..
      c. Johnsonite, a Tarkett Company;____: www.johnsonite.com/#sle..
         Roppe Corporation: www.roppe.com/#sle.
      d. Substitutions: See Section 016000 - Product Requirements.

E. Copper Grounding Strips: Type and size as recommended by static control flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that surfaces are flat to tolerances acceptable to flooring manufacturer, free of cracks that might telegraph through flooring, clean, dry, and free of curing compounds, surface hardeners, and other chemicals that might interfere with bonding of flooring to substrate.

B. Verify that wall surfaces are smooth and flat within the tolerances specified for that type of work, are dust-free, and are ready to receive resilient base.

C. Cementitious Subfloor Surfaces: Verify that substrates are ready for resilient flooring installation by testing for moisture and alkalinity (pH).
   1. Test in accordance with Section 090561.
   2. Obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer.
   3. Follow moisture and alkalinity remediation procedures in Section 090561.

D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

B. Remove subfloor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with subfloor filler to achieve smooth, flat, hard surface.

C. Prohibit traffic until filler is fully cured.

D. Clean substrate.

E. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed. Apply primer to _____ surfaces.

3.03 INSTALLATION - GENERAL

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install in accordance with manufacturer's written instructions.

C. Adhesive-Applied Installation:
   1. Spread only enough adhesive to permit installation of materials before initial set.
   2. Place copper grounding strip in conductive adhesive and apply additional adhesive to top side of strip before installing static control flooring. Allow strip to extend beyond flooring in accordance with static control flooring manufacturer's instructions. Refer to Section 260526 for grounding and bonding to building grounding system.
   3. Fit joints and butt seams tightly.
   4. Set flooring in place, press with heavy roller to attain full adhesion.

D. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.

E. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
   1. Resilient Strips: Attach to substrate using adhesive.

F. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

G. Install flooring in recessed floor access covers, maintaining floor pattern.

3.04 INSTALLATION - SHEET FLOORING

A. Lay flooring with joints and seams parallel to longer room dimensions, to produce minimum number of seams. Lay out seams to avoid widths less than 1/3 of roll width; match patterns at seams.

3.05 INSTALLATION - TILE FLOORING

A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.

B. Lay flooring with joints and seams parallel to building lines to produce symmetrical pattern.

C. Install square tile to ashlar pattern. Allow minimum 1/2 full size tile width at room or area perimeter.

3.06 INSTALLATION - RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.

B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.

C. Install base on solid backing. Bond tightly to wall and floor surfaces.

D. Scribe and fit to door frames and other interruptions.

3.07 INSTALLATION - STAIR COVERINGS

A. Install stair coverings in one piece for full width and depth of tread.

B. Adhere over entire surface. Fit accurately and securely.

3.08 CLEANING

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean in accordance with manufacturer's written instructions.

3.09 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION 096500

SECTION 116623
GYMNASIUM EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wall mounted protection pads.

B. Stage-mounted protection pads

1.02 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2023b.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Product Data: Provide manufacturer's data showing configuration, sizes, materials, finishes, hardware, and accessories; include:
   1. Fire rating certifications.
   2. Manufacturer's installation instructions.

C. Selection Samples: the specified item requires color/finish selections to be made by the Architect from a physical color chart or physical sample submittals.

D. Electronic submittals for color, pattern, texture, or similar characteristics are not acceptable.

E. Shop Drawings: For custom fabricated equipment indicate, in large scale detail, construction methods; method of attachment or installation; type and gauge of metal, hardware, and fittings; plan front elevation; elevations and dimensions; minimum one cross section; utility requirements as to types, sizes, and locations.

F. Erection Drawings: Detailed dimensional requirements for proper location of equipment.

G. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to project site in manufacturer's original packaging with factory original labels attached.

B. Store products indoors and elevated above floor; prevent warping, twisting, or sagging.

C. Store products in accordance with manufacturer's instructions; protect from extremes of weather, temperature, moisture, and other damage.

1.05 WARRANTY

A. See Section 017800 - Closeout Submittals, for additional warranty requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Gymnasium Equipment:
   1. Grand Slam Safety, LLC; _____: www.grandslamsafety.com/#sle.
   2. IPI by Bison, Inc; _____: www.ipibybison.com/#sle.
   3. Performance Sports Systems; _____: www.perfsports.com/#sle.
   4. Porter Athletic Equipment Company; _____: www.porterathletic.com/#sle.

2.02 GENERAL REQUIREMENTS

A. See drawings for sizes and locations, unless noted otherwise.

B. Provide mounting plates, brackets, and anchors of sufficient size and strength to securely attach equipment to building structure; comply with requirements of Contract Documents.

C. Hardware: Heavy duty steel hardware, as recommended by manufacturer.

2.03 STAGE PADS WITH TOP RETURN

A. Removable safety wall padding manufactured in 2-in-thickness, standard 2-ft- accordion style fold construction: Each mat is sewn with loop attachment along horizontal edge for connection to YKK® engineered wall hook and rail system.

B. Basis of Design Product: Subject to compliance, provide **Mancino Manufacturing Company model 512, Top-Return Removable Stage Padding, https://www.mancinomats.com/**. or Approved Equal that meets all of the technical, performance, and aesthetic characteristics of the following.

C. Covering: 14 -oz. / yd2 vinyl coated polyester., UV and Anti-Mildew treated.
   1. Color: As selected from manufacturer's standard range.

D. Filler: firm crosslinked polyethylene foam, 2-inch Cross-linked (50.8-mm-) thick foam 2-lb/ ft3 (32-kg/ m3) density.

E. Meets ASTM standard 2440-04 Impact attenuation where the panel has achieved ratings below 1000 HIC and 200 g max.

F. Sizing: Standard fold every 24-inches- in lengths of 4-ft-, 6-ft-, 8-ft-, or 10-ft-. *Combination of lengths and heights may be required to complete area. Refer to drawings for sizes.

G. YKK® engineered wall hook and rail system mounts directly to stage top lying flat and running along stage edge, **YKK, Powerhook, https://www.ykkfastening.com/products/hook_loop/powerhook/**

2.04 WALL PADDING

A. Wall Padding: Foam filling bonded to backing board, wrapped in covering; each panel fabricated in one piece.
   1. Same construction as standard padding
   2. Covering: Vinyl-coated polyester fabric, mildew and rot resistant; stapled to back of board.
      a. Color: As selected from manufacturer's standard range.
      b. Texture: Smooth.
   3. Foam Thickness: 1-1/2 inches.
   4. Backing Board: Plywood.
      a. Thickness: 3/8 inch, minimum.
   5. Panel Dimensions: refer to drawings, .
   6. Mounting: Removable; Z-clips fixed to wall and to padding.

PART 3 EXECUTION

3.01 EXAMINATION

A. Take field measurements to ensure proper fitting of work. If taking field measurements before fabrication will delay work, allow for adjustments within recommended tolerances.

B. Inspect areas and conditions before installation, and notify Architect in writing of unsatisfactory or detrimental conditions.

C. Do not proceed with this work until conditions have been corrected; commencing installation constitutes acceptance of work site conditions.

3.02 INSTALLATION

A. Install in accordance with Contract Documents and manufacturer's instructions.

B. Coordinate installation of inserts and anchors that must be built in to flooring or subflooring.

C. Install equipment rigid, straight, plumb, and level.

D. Secure equipment with manufacturer's recommended anchoring devices.

E. Install wall padding securely, with edges tight to wall and without wrinkles in fabric covering.

F. Separate dissimilar metals to prevent electrolytic corrosion.

3.03 ADJUSTING

A. Verify proper placement of equipment.

B. Verify proper placement of equipment anchors and sleeves, and use actual movable equipment to be anchored if available.

3.04 CLEANING

A. Remove masking or protective covering from finished surfaces.

B. Clean equipment in accordance with manufacturer's recommendations.

3.05 PROTECTION

A. Protect installed products until Date of Substantial Completion.

B. Replace damaged products before Date of Substantial Completion.

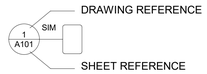
END OF SECTION 116623

ABBREVIATIONS

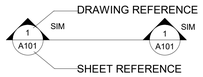
CBB	CONCRETE BACKER BOARD
IN SITU	IN PLACE
A/E	ARCHITECT / ENGINEER
ABV	ABOVE
ACCESS	ACCESSIBLE
ACP	ACOUSTICAL CEILING PANEL
ACST	ACOUSTIC
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADD'L	ADDITIONAL
ADJ	ADJACENT/ADJUST
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINIUM
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL, URE)
ASPH	ASPHALT(IC)
AUTO	AUTOMATIC
AVG	AVERAGE
AWP	ACOUSTICAL WALL PANEL
FRP	AIR CONDITIONING
BLDG	BUILDING
BLKG	BLOCKING
BLKHD	BULKHEAD
BLW	BELOW
BM	BEAM
BOD	BASIS OF DESIGN
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
C-C	CENTER TO CENTER
CAB	CABINET
CEM	CEMENT
CFS	COLD FORMED STEEL
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLO	CLOSET
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COM	COMMUNICATIONS
CONC	CONCRETE
COND	CONDITION
CONFIG(S)	CONFIGURATION(S)
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET(ED)
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTR	CENTER
D	DEEP/DEPTH
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM(S)	DIMENSION(S)
DIV	DIVIDE
DN	DOWN
DR	DOOR, DRAIN
DS	DOWNSPOUT
DTL	DETAIL
DWG(S)	DRAWING(S)
DWR	DRAWER
E	EAST
E-P	EPOXY PAINT
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION (TOPO)
ELEC	ELECTRICAL
ELEV	ELEVATION (ARCH), ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOS(E,URE)
ENGR	ENGINEER
ENTR	ENTRANCE
EOS	EDGE OF SLAB
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EPS	EXPANDED POLYSTYRENE BOARD
EQ	EQUAL
EQUIP	EQUIPMENT
ESB	EXISTING STEEL BASE
ESD	ELECTROSTATIC DISCHARGE TILE
EST	ESTIMATE(D)
EWB	EXISTING WALL BASE
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXH	EXHAUST
EXHB	EXHIBIT
EXIST	EXISTING
EXP	EXPOSED, EXPANSION
EXT	EXTERIOR
F.P.	FILLER PANEL
FA	FIRE ALARM
FAS	FASTEN(ER)
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH(ED) FACE
FF&E	FURNITURE, FIXTURES & EQUIPMENT
FH	FIRE HOSE, FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN(S)	FINISH(ES)
FIXT	FIXTURE
FL	FLOOR(ING)
FLAM	FLAMMABLE
FO	FINISHED OPENING
FOS	FACE OF STUDS
FP	FIRE PROTECTION
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET
FTG	FOOTING
FUR	FURR(ED,ING)
G	NATURAL GAS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GEN	GENERATOR
GF	GLASS FILM
GFRC	GLASS-FIBER-REINFORCED CONCRETE
GFRG	GLASS-FIBER-REINFORCED GYPSUM
GFRP	GLASS-FIBER-REINFORCED POLYESTER, GLASS-FIBER-REINFORCED PLASTIC
GL	GLASS, GLAZING
GLU LAM	GLUE LAMINATED WOOD
GOVT	GOVERNMENT
GT	GROUT
GWB	GYPSUM WALLBOARD
H	HIGH
HAZ MAT	HAZARDOUS MATERIAL
HB	HOSE BIBB
HC	HOLLOW CORE, HOSE CABINET
HCWD	HOLLOW CORE WOOD DOOR
HD	HEAVY DUTY
HDR	HEADER
HDWD	HARDWOOD
HDWR	HARDWARE
HID	HIGH INTENSITY DISCHARGE
HM	HOLLOW METAL
HORIZ	HORIZONTAL(LY)
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT(S)
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
ILO	IN LIEU OF
IN	INCH(ES)
INCL	INCLUDE(S,D,ING)
INFO	INFORMATION
INSUL	INSULATION, INSULATED
INT	INTERIOR
INV	INVERT
IR	IMPACT-RESISTANT
J-BOX	JUNCTION BOX
JT(S)	JOINT(S)
KIT	KITCHEN
KO	KNOCK OUT
L	ANGLE
LAM	LAMINATE(D)
LAV	LAVATORY
LBL	LABEL
LH	LEFT HAND
LHR	LEFTHAND REVERSE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT GA	LIGHT GAUGE
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LUXURY VINYL TILE
LW	LIGHT WEIGHT
MAS	MASONRY
MATL	MATERIAL(S)
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURE(R)
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT, NOISE ISOLATION CLASS
NO('S)	NUMBER(S)
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O-O	OUT TO OUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFC	OFFICE
OH	OPPOSITE HAND, OVERHEAD
OPNG	OPENING(S)
ORIG	ORIGINAL
PA	PUBLIC ADDRESS
PAR	PARALLEL
PART	PARTITION(S), PARTIAL
PC	PRECAST
PERF	PERFORATE(D)
PL	PLATE, PROPERTY LINE, PLASTIC LAMINATE
PLAS	PLASTER
PLWD	PLYWOOD
PNL	PANEL(ED)
POL	POLISHED
POLY	POLYETHYLENE
PR	PAIR
PREP	PREPARE (SURFACE)
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT, POST-TENSIONED, PRESSURE TREATED
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWR	POWER
QTY	QUANTITY
QZ	QUARRY TILE
QZ	QUARTZ FLOORING
R	RADIUS, RISER, THERMAL RESISTANCE
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
REF	REFERENCE
REINF	REINFORCED
REPL	REPLACE
REQ	REQUIRED
RES	RESILIENT
RET	RETAINING, RETURN
REV	REVISION(S) / REVISE(D)
RF	RUBBER FLOORING
RFG	ROOFING
RH	RIGHT HAND, RELATIVE HUMIDITY
RHR	RIGHT HAND REVERSE
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
RS	RESILIENT SHEET
RTF	RUBBER TILE FLOOR
RTU	ROOF TOP UNIT
RV	ROOF VENTILATOR
S	SOUTH, SEAL
SAB	SOUND ATTENUATION BATT
SACP	SUSPENDED ACCOUSTIC CEILING PANEL
SALV	SALVAGE
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SCON	SEALED CONCRETE
SCWD	SOLID CORE WOOD DOOR
SDT	STATIC DISSIPATIVE TILE
SEC	SECURE, SECURITY
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
ST	STONE
STD	STANDARD
STL	STEEL
STN	STAIN
STO	STORAGE
STRUC	STRUCTURAL
SUB	SUBSTITUTION
SUSP	SUSPENDED
SYS	SYSTEM
T	THICK, TREAD, TOILET
T&G	TONGUE AND GROOVE
T.O.	TOP OF
TB	TACKBOARD
TBB	TILE BACKER BOARD
TECH	TECHNOLOGY
TEL	TELEPHONE
TEMP	TEMPORARY, TEMPERED
THRS	THRESHOLD
THRU	THROUGH
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TRANS	TRANSPARENT
TYP	TYPICAL
UC	UNDERCUT
UH	UNIT HEATER
UIO	UNLESS INDICATED OTHERWISE
UL	UNDERWRITER'S LABORATORY
UNFIN	UNFINISHED
UR	URINAL
VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VTR	VENT THROUHG ROOF
VU	VENTILATION UNIT
W	WEST, WIDE, WIDE FLANGE
W-W	WALL TO WALL
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WH	WALL HEATER
WOC	WALK OFF CARPET
WP	WATERPROOFING, WORK POINT
WPF	WOOD PLANK FLOORING
WT	WEIGHT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
XFER	TRANSFER
YD	YARD, YARD DRAIN
#	NUMBER, POUND
&	AND
±	PLUS / MINUS

GRAPHIC SYMBOLS

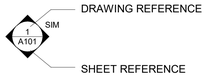
DETAIL / PLAN



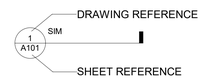
BLDG SECTION CUT



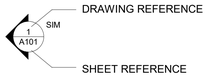
INTERIOR ELEVATION



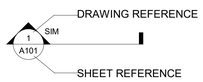
DETAIL CUT



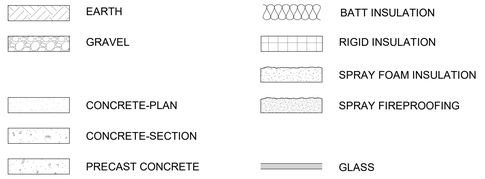
EXTERIOR ELEVATION



WALL SECTION CUT



MATERIAL SYMBOLS



SYMBOLS

GLAZING SCHEDULE

GENERAL NOTE:

1. REFER TO SPECIFICATION SECTION 088000 FOR GLAZING PRODUCTS

MARK	DESCRIPTION
GL-1	INTERIOR 1/4" GLAZING, TEMPERED
GL-2	INTERIOR 1/2" LAMINATED GLAZING, CLEAR, TEMPERED
GL-3	EXTERIOR 1" INSULATED LOW-E GLAZING, TEMPERED
GL-4	STORM WINDOW GLAZING, 1/4" LOW-E, TEMPERED
GL-5	EXTERIOR 1/8" GLAZING FOR REPLACEMENT OF GLASS IN HISTORIC RESTORED/REPLICATED WINDOWS

METAL SHELVING SCHEDULE

BASIS OF DESIGN: ULINE. REFER TO SPECIFICATIONS SECTION 105613 - METAL STORAGE SHELVING AND TO FLOORPLANS FOR LOCATIONS.

MARK	DESCRIPTION	SIZE (W x D x H)
MS-2	METAL STORAGE SHELVING	36" x 18" x 60"
MS-4	METAL STORAGE SHELVING	48" x 18" x 60"
MS-5	METAL STORAGE SHELVING	36" x 12" x 84"
MS-6	METAL STORAGE SHELVING	36" x 18" x 84"
MS-7	METAL STORAGE SHELVING	48" x 18" x 84"
MS-8	METAL STORAGE SHELVING	72" x 36" x 72"
MS-9	METAL STORAGE SHELVING	96" x 36" x 72"

LIBRARY SHELVING SCHEDULE

BASIS OF DESIGN: ESTEY, LIBRARY DESIGNER DESIGNER SERIES SHELVING. REFER TO SPECIFICATIONS SECTION - 115123 "LIBRARY STACK SYSTEMS" AND TO ENLARGED PLAN/ELEVS - ADMIN & LIBRARY, FOR LOCATIONS.

TAG	DESCRIPTION	SIZE (W x D x H)
LS-1	ONE SIDED 66" TALL	36" x 13" x 66"
LS-2	ONE SIDED 66" TALL	24" x 13" x 66"
LS-3	ONE SIDED 42" TALL	36" x 13" x 42"
LS-4	DOUBLE SIDED 42" TALL	36" x 13" x 42".
LS-5	ONE SIDED 42" TALL	30" x 13" x 42".
LS-10	CIRCULATION DESK	30" X 84"

ROLLER SHADE SCHEDULE

BASIS OF DESIGN: HELIARISE SLIM MANUAL ROLLER SHADE (MANUAL SHADES) AND MOTORISE MR150 SLIM SYSTEM (MOTORIZED), WT SHADE. REFER TO SPECIFICATIONS SECTIONS 122413 - "MANUAL ROLLER SHADES", 122414 - "MOTORIZED ROLLER SHADES", AND TO REFLECTED CEILING PLANS FOR LOCATIONS.

RS-1 - MANUAL, REGULAR SHADE, 3% OPEN (LEVEL 1)

RS-2 - MANUAL, REGULAR SHADE (LEVEL 1)

RS-3 - MANUAL, REGULAR SHADE, 3% OPEN (LEVEL 2, LEVEL 3, & MEZZANINE)

RS-4 - MANUAL, REGULAR SHADE, 1% OPEN (LEVEL 2, LEVEL 3, & MEZZANINE)

RS-5 - MANUAL, REGULAR SHADE, 3% OPEN (LEVEL 2)

RS-6 - MOTORIZED, REGULAR SHADE + BLACKOUT SHADE, 3% OPEN (LEVEL 3 GYMATORIUM)

RS-7 - MOTORIZED, REGULAR SHADE + BLACKOUT SHADE, 3% OPEN (LEVEL 3 GYMATORIUM)

VINYL FILM SCHEDULE

BASIS OF DESIGN: DECORATIVE FILMS, SOLYX. REFER TO SPECIFICATIONS SECTION "DECORATIVE WINDOW FILM" AND TO STOREFRONT ELEVATIONS FOR LOCATIONS.

VF-1 - TRANSLUSCENT FILM, DECORATIVE FILMS, SOLYX, SX-C300 DUSTED ETCH
VF-2 - DECORATIVE FILMS, SOLYX, SXP-030, DARK RED
VF-3 - DECORATIVE FILMS, SOLYX, SXP-096UV, STEEL BLUE
VF-4 - DECORATIVE FILMS, SOLYX, SXP-068UV, GRASS GREEN
VF-5 - DECORATIVE FILMS, SOLYX, SXP-034UV, ORANGE

TACKBOARD SCHEDULE

TYPE MARK	SIZE	DESCRIPTION
TB-1	VARIES, REFER TO TYP. CLASSROOM AND CORRIDOR ELEVATIONS	SHEET PRODUCT, APPLIED TO SUBSTRATE OR WALL SURFACE WITHIN HISTORIC WOOD MILLWORK FRAME
TB-4	4' W x 3' H	ALUMINUM-FRAMED UNIT

MARKBERBOARD SCHEDULE

TYPE MARK	SIZE	DESCRIPTION
MB-AV	8' W x VARYING H	ROLL-GOODS SHEET PRODUCT - AV MARKERBOARD (REFER TO AV SPEC) CUT TO FIT AND APPLIED TO SUBSTRATE IN CUSTOM FRAME, WITH WALL-MOUNTED PROJECTOR ABOVE. ON LEVELS 2 & 3 MARKERBOARD WILL BE MOUNTED IN FRONT OF EXISTING TRIM AS SHOWN IN SECTION DETAILS. ON LEVEL 1 SUBSTRATE WILL BE MOUNTED DIRECTLY TO WALL. REF. AV DRAWINGS (AVB1, AVB2)
MB-1	VARIES, REF. TYP. CLASSROOM ELEVATIONS	UNFRAMED MARKERBOARD/MAGNETIC BOARD, CUT TO FIT AND MOUNTED WITHIN HISTORIC WOOD TRIM
MB-4	4' W x 3' H	ALUMINUM-FRAMED UNIT
MB-6	6' W x 3' H	ALUMINUM-FRAMED UNIT
MB-8	8' W x 3' H	ALUMINUM-FRAMED UNIT
MB-10	10' W x 3' H	ALUMINUM-FRAMED UNIT
MB-12	12' W x 3' H	ALUMINUM-FRAMED UNIT

ACOUSTIC WALL PANEL SCHEDULE

REFER TO SPECIFICATIONS SECTION "ACOUSTIC WALL PANELS", TO INTERIOR ELEVATIONS, AND TO ENLARGED PLAN/ELEVS - GYMATORIUM, FOR LOCATIONS.

TYPE MARK	SIZE	TYPE
AWP-1	24" X 24"	PET PLASTIC PANELS
AWP-2	36" X 59"	FELT WALL PANELS
AWP-3	12" X 24"	FABRIC-WRAPPED PANELS

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

RPS RICHMOND PUBLIC SCHOOLS

WILLIAM FOX ELEMENTARY SCHOOL RECONSTRUCTION

RICHMOND PUBLIC SCHOOLS
2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

BID DOCUMENTS
10/3/2023

ABBREVIATIONS, SYMBOLS, SCHEDULES

A001

PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/3/2023 12:37:07 AM

CEILING LEGEND

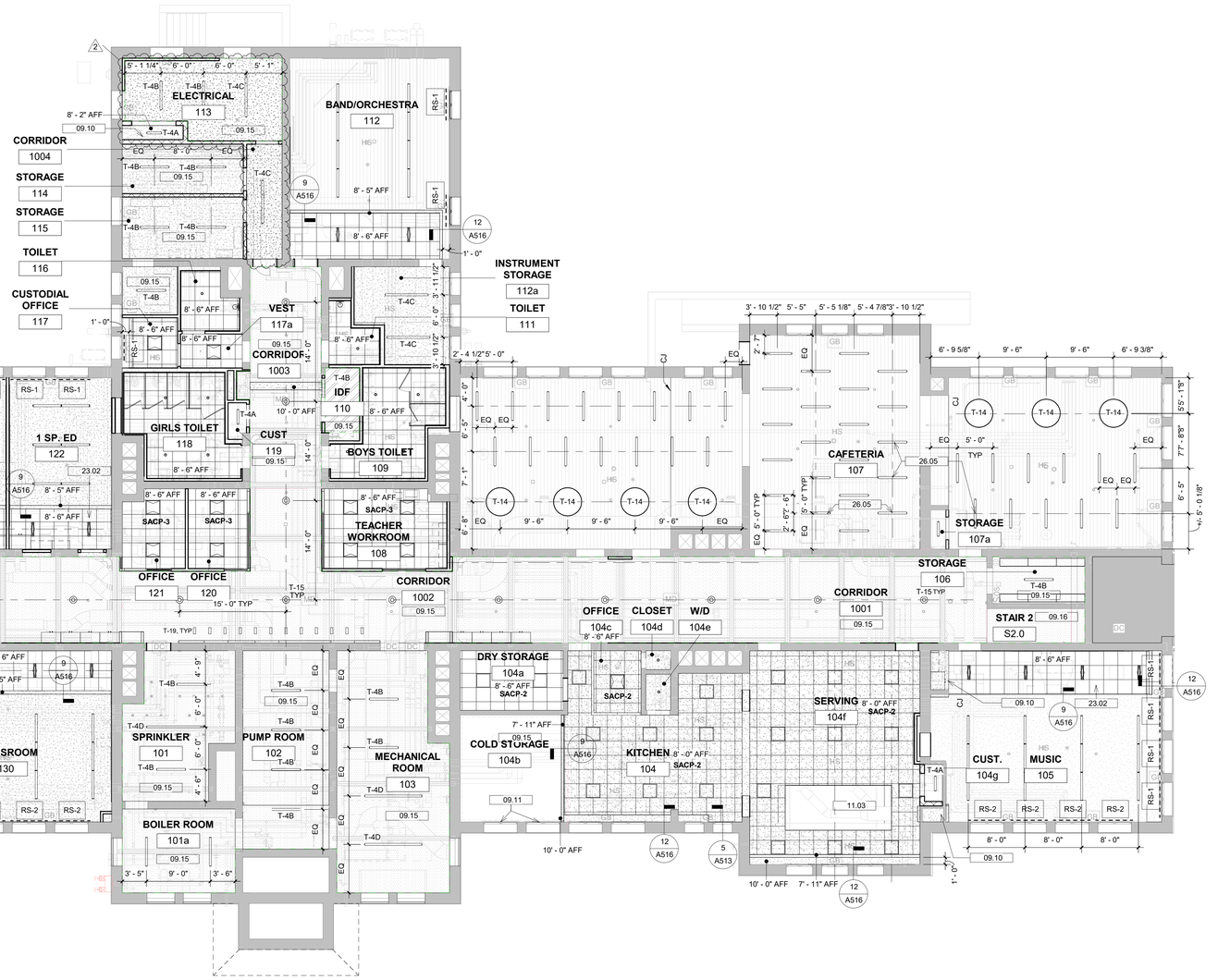
GYPSUM BOARD CEILING, DRYFALL PAINT PT-5, FLAT FINISH	DECORATIVE SPOT PENDANTS	EXTERIOR ADJUSTABLE UPLIGHT, REFER TO LEVEL 3 AT ROOF OVERHANGS	LED TAPE LIGHT
ACCOUSTICAL GYPSUM BOARD CEILING, DRYFALL PAINT PT-5, FLAT FINISH	LINEAR DIRECT/INDIRECT SUSPENDED FIXTURE	THEATRICAL TRACK LIGHT	
EXPOSED STRUCTURE. ALL CONDUIT, HVAC UNITS, SPRINKLER PIPING, ETC., TO BE PAINTED. DRYFALL PAINT PT-5, FLAT FINISH, UNO. SEE GENERAL NOTE ABOUT LEVEL 1 CEILINGS IN CORRIDORS	DECORATIVE PENDANT	DECORATIVE ACOUSTIC PENDANT, SMALL	
SACP-01, TYP, **SACP-03** WHERE NOTED. 2' x 2' ACOUSTICAL CEILING PANEL. REFER TO SPECS. CENTER LIGHTS, SPRINKLERS, SPEAKERS, ETC IN CEILING TILES, UNO	2' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	DECORATIVE ACOUSTIC PENDANT, LARGE	
SACP-02: 2' x 2' SCRUBBABLE ACOUSTICAL CEILING PANEL	4' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	SURFACE-MOUNTED, WET-RATED FIXTURE	
2' X 2' RETURN REGISTER (CEILING MOUNTED)		DECORATIVE PENDANT	CJ CONTROL JOINT
2' X 2' SUPPLY REGISTER (CEILING MOUNTED)	6' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	WALL-MOUNTED LINEAR	RS - X ROLLERSHADE. REFER TO SHEET A001 AND SPECIFICATIONS FOR SHADE SCHEDULE.
4" DOWNLIGHT - ROUND		DECORATIVE WALL SCONCE	
2' x 2' RECESSED LED, TROFFERED	8' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	DECORATIVE PENDANT, CORRIDORS	ACCOUSTIC CEILING-MOUNTED BAFFLES
2' x 2' RECESSED LED, FLAT PANEL		4" RECESSED LED, TROFFERED	
		DECORATIVE PENDANT, CORRIDORS	STAGE CURTAIN

GENERAL NOTES

1. DIMENSIONS ARE TO FINISH FACE UNLESS INDICATED OTHERWISE.
2. LIGHT FIXTURES OR GROUP OF LIGHT FIXTURES TO BE CENTERED IN ROOM OR BETWEEN PRIMARY CEILING WALLS UNLESS NOTED OTHERWISE.
3. INSTALL GYPSUM BOARD CEILING ABOVE SACT CEILINGS IN ALL LOCATIONS WHERE SACT IS INDICATED AND WITH EXISTING WOOD JOISTS. REFER TO "SECTION - TYP GYP BOARD CEILING AT SACT" ON CEILING DETAILS SHEET.
4. ALL LEVEL 2 AND LEVEL 3 GYPSUM BOARD CEILINGS SHALL BE INSTALLED ON 6" METAL STUD FRAMING SECURED TO UNDERSIDE OF EXISTING JOISTS OR ROOF TRUSS BOTTOM CORD. REFER TO "SECTION - TYP GYP BOARD CEILING W/ METAL STUDS" ON SHEET A516.
5. LEVEL 1: REFER TO "FINISH TRANSITIONS LEVEL 1" SHEET FOR CEILING COLORS AND EXTENTS IN THE CORRIDORS.
6. LEVEL 2 AND LEVEL 3: INSTALL GYPSUM BOARD CEILING IN ACCORDANCE WITH DETAIL 7/A516 IN ALL SPACES, ABOVE SUSPENDED CEILINGS AND WHERE NO CEILING FINISH IS INDICATED

KEYNOTES

09.10	2-HR RATED HORIZONTAL MEMBRANE AER-09038. REFER TO SHEET A002, ASSEMBLY TYPE CS2H
09.11	PROVIDE OPAQUE VF-5 AT INSIDE FACE OF GLAZING, REFER TO INTERIOR ELEVATION
09.15	DRYFALL EXISTING EXPOSED CONCRETE CEILING, EXPOSED CONDUITS, DUCTWORK, HVAC UNITS, SPRINKLERS, AND ALL OTHER ITEMS AT THE CEILING PLANE. PAINT PNT-21, UNLESS NOTED OTHERWISE ON FINISH TRANSITIONS LEVEL 1 SHEET.
09.16	DRYFALL EXISTING UNDERSIDE OF METAL STAIR, EXPOSED CONDUITS, DUCTWORK, HVAC UNITS, SPRINKLERS, AND ALL OTHER ITEMS BELOW THE STAIR. PAINT PNT-21.
11.03	
14.04	ELEVATOR: ELEVATOR CEILING SYSTEM W/ (6) LED DOWNLIGHTS, PROVIDED BY MANUFACTURER. REFER TO SPECS FOR FINISH AND LIGHTING SELECTIONS AND ADDITIONAL INFORMATION.
23.02	AIR RETURN PLENUM ABOVE SOFFIT - INSTALL 5/8" GYPSUM BOARD UL TYPE SCX
26.05	SUSPEND LIGHTS ON UNISTRUT/AIRCRAFT CABLE BENEATH HVAC DUCTS/EQUIPMENT, AS NEEDED.



1 A121 LEVEL 1 RELECTED CEILING PLAN
1/8" = 1'-0"

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

RPS RICHMOND PUBLIC SCHOOLS

WILLIAM FOX ELEMENTARY SCHOOL RECONSTRUCTION

RICHMOND PUBLIC SCHOOLS
2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description
2	10/31/2023	ADDENDUM 002

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

BID DOCUMENTS
10/3/2023

REFLECTED CEILING PLAN LEVEL 1

A121

PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/31/2023 1:23:15 AM

CEILING LEGEND

GYPSUM BOARD CEILING, DRYFALL PAINT PT-5, FLAT FINISH	DECORATIVE SPOT PENDANTS	EXTERIOR ADJUSTABLE UPLIGHT, REFER TO LEVEL 3 AT ROOF OVERHANGS	LED TAPE LIGHT
ACCOUSTICAL GYPSUM BOARD CEILING, DRYFALL PAINT PT-5, FLAT FINISH	LINEAR DIRECT/INDIRECT SUSPENDED FIXTURE	THEATRICAL TRACK LIGHT	
EXPOSED STRUCTURE. ALL CONDUIT, HVAC UNITS, SPRINKLER PIPING, ETC., TO BE PAINTED. DRYFALL PAINT PT-5, FLAT FINISH, UNO. SEE GENERAL NOTE ABOUT LEVEL 1 CEILINGS IN CORRIDORS	DECORATIVE PENDANT	DECORATIVE ACOUSTIC PENDANT, SMALL	
SACP-01, TYP, **SACP-03** WHERE NOTED. 2' x 2' ACOUSTICAL CEILING PANEL. REFER TO SPECS. CENTER LIGHTS, SPRINKLERS, SPEAKERS, ETC IN CEILING TILES, UNO	2' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	DECORATIVE ACOUSTIC PENDANT, LARGE	
SACP-02: 2' x 2' SCRUBBABLE ACOUSTICAL CEILING PANEL	4' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	SURFACE-MOUNTED, WET-RATED FIXTURE	
2' X 2' RETURN REGISTER (CEILING MOUNTED)		DECORATIVE PENDANT	CJ CONTROL JOINT
2' X 2' SUPPLY REGISTER (CEILING MOUNTED)	6' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	WALL-MOUNTED LINEAR	RS - X ROLLERSHADE. REFER TO SHEET A001 AND SPECIFICATIONS FOR SHADE SCHEDULE.
4" DOWNLIGHT - ROUND		DECORATIVE WALL SCONCE	
2' x 2' RECESSED LED, TROFFERED	8' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	DECORATIVE PENDANT, CORRIDORS	ACCOUSTIC CEILING-MOUNTED BAFFLES
2' x 2' RECESSED LED, FLAT PANEL		4" RECESSED LED, TROFFERED	
		DECORATIVE PENDANT, CORRIDORS	STAGE CURTAIN

GENERAL NOTES

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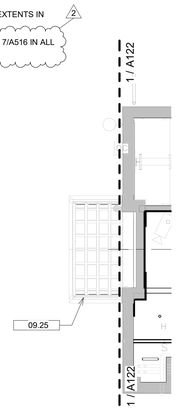
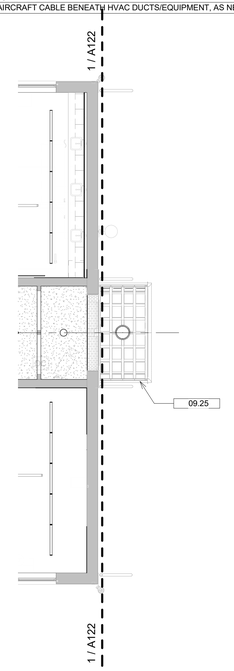
4. ALL LEVEL 2 AND LEVEL 3 GYPSUM BOARD CEILINGS SHALL BE INSTALLED ON 6" METAL STUD FRAMING SECURED TO UNDERSIDE OF EXISTING JOISTS OR ROOF TRUSS BOTTOM CORD. REFER TO "SECTION - TYP GYP BOARD CEILING W/ METAL STUDS" ON SHEET A516.
5. LEVEL 1: REFER TO "FINISH TRANSITIONS LEVEL 1" SHEET FOR CEILING COLORS AND EXTENTS IN THE CORRIDORS.
6. LEVEL 2 AND LEVEL 3: INSTALL GYPSUM BOARD CEILING IN ACCORDANCE WITH DETAIL 7/A516 IN ALL SPACES, ABOVE SUSPENDED CEILINGS AND WHERE NO CEILING FINISH IS INDICATED

KEYNOTES

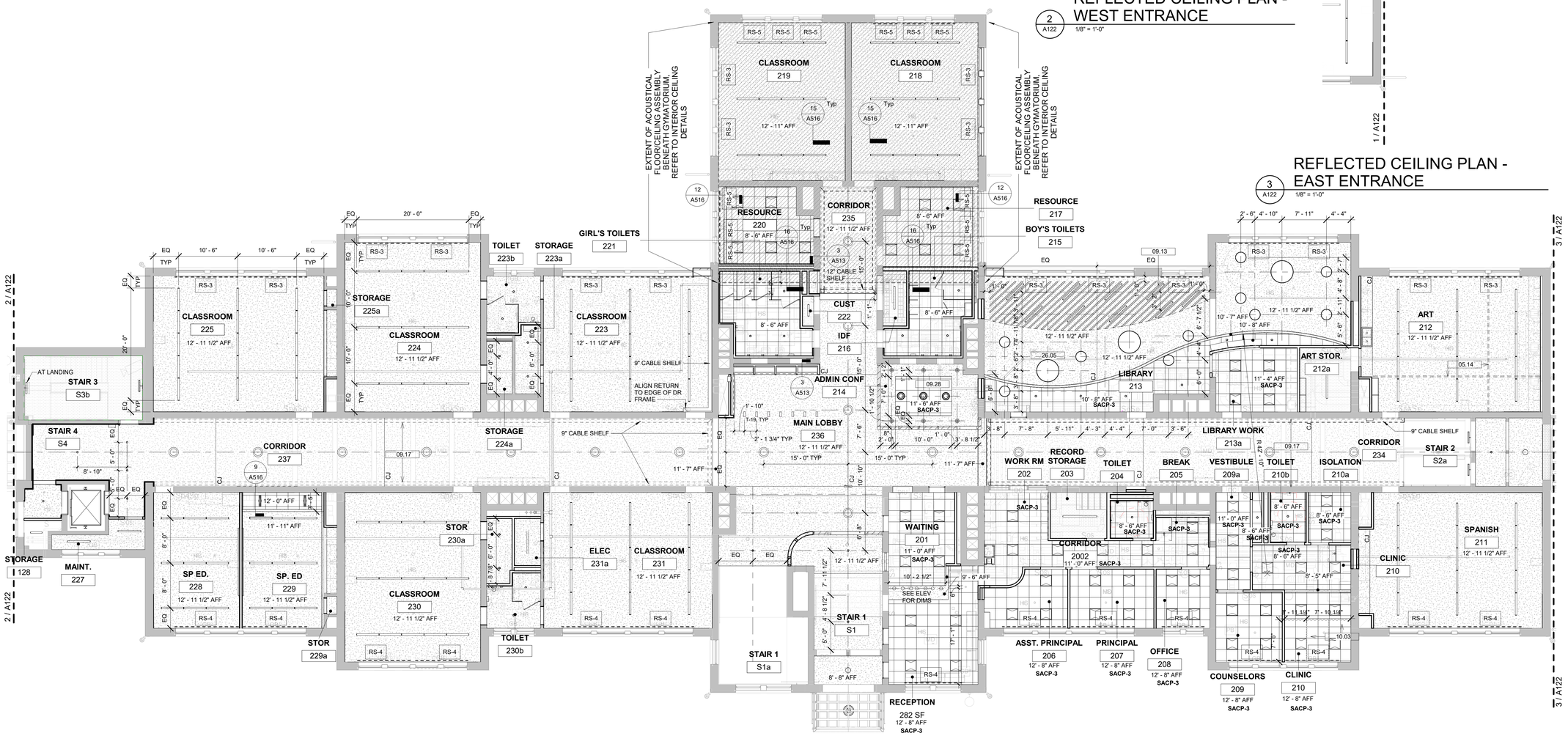
05.14	2" METAL PIPE, MOUNTED AT 9' AFF, TO HANG ARTWORK.
09.13	BAFFLES, BF-1, ROTATED 45 DEGREES, SPACED AT 10" O.C. REFER TO INTERIOR ELEVATIONS FOR HEIGHT.
09.17	CABLE TRAY, REFER TO TELECOM DRAWINGS AND "SECTION - CABLE TRAY" ON INTERIOR SECTION DETAILS SHEET.
09.25	EXISTING METAL CANOPY. REMOVE ALL LOOSE, FLAKEY, OR OTHERWISE COMPROMISED PAINTS AND/OR COATINGS. CLEAN AND REPAIR FOR NEW PAINT.
09.28	PROVIDE 4" AXIOM TRIM AROUND FLOATING CEILING CLOUD.
10.03	SUSPENDED OVERHEAD CURTAIN, REF SPECS
26.05	SUSPEND LIGHTS ON UNISTRUT/AIRCRAFT CABLE BENEATH HVAC DUCTS/EQUIPMENT, AS NEEDED.



2 A122 — REFLECTED CEILING PLAN - WEST ENTRANCE
1/8" = 1'-0"



3 A122 — REFLECTED CEILING PLAN - EAST ENTRANCE
1/8" = 1'-0"



1 A122 — LEVEL 2 RELECTED CEILING PLAN
1/8" = 1'-0"

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

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WILLIAM FOX ELEMENTARY SCHOOL RECONSTRUCTION

RICHMOND PUBLIC SCHOOLS
2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

BID DOCUMENTS
10/3/2023

REFLECTED CEILING PLAN LEVEL 2

A122

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PLOTTING DATE & TIME: 10/31/2023 12:37:26 AM

CEILING LEGEND

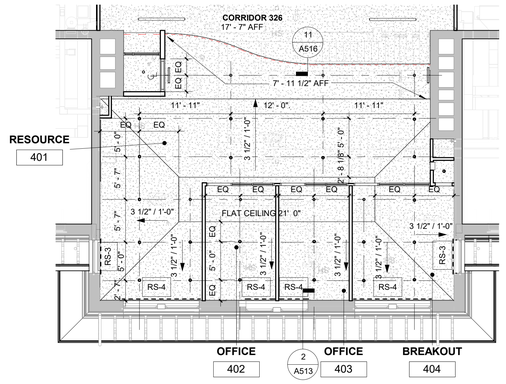
GYPSUM BOARD CEILING, DRYFALL PAINT PT-5, FLAT FINISH	DECORATIVE SPOT PENDANTS	EXTERIOR ADJUSTABLE UPLIGHT, REFER TO LEVEL 3 AT ROOF OVERHANGS	LED TAPE LIGHT
ACCOUSTICAL GYPSUM BOARD CEILING, DRYFALL PAINT PT-5, FLAT FINISH	LINEAR DIRECT/INDIRECT SUSPENDED FIXTURE	THEATRICAL TRACK LIGHT	
EXPOSED STRUCTURE. ALL CONDUIT, HVAC UNITS, SPRINKLER PIPING, ETC., TO BE PAINTED. DRYFALL PAINT PT-5, FLAT FINISH, UNO. SEE GENERAL NOTE ABOUT LEVEL 1 CEILINGS IN CORRIDORS	DECORATIVE PENDANT	DECORATIVE ACOUSTIC PENDANT, SMALL	
SACP-01, TYP, **SACP-03** WHERE NOTED. 2' x 2' ACOUSTICAL CEILING PANEL. REFER TO SPECS. CENTER LIGHTS, SPRINKLERS, SPEAKERS, ETC IN CEILING TILES, UNO	2' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	DECORATIVE ACOUSTIC PENDANT, LARGE	
SACP-02: 2' x 2' SCRUBBABLE ACOUSTICAL CEILING PANEL	4' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	SURFACE-MOUNTED, WET-RATED FIXTURE	
2' X 2' RETURN REGISTER (CEILING MOUNTED)		DECORATIVE PENDANT	CJ CONTROL JOINT
2' X 2' SUPPLY REGISTER (CEILING MOUNTED)	6' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	WALL-MOUNTED LINEAR	RS - X ROLLERSHADE. REFER TO SHEET A001 AND SPECIFICATIONS FOR SHADE SCHEDULE.
4" DOWNLIGHT - ROUND		DECORATIVE WALL SCONCE	
2' x 2' RECESSED LED, TROFFERED	8' SURFACE-MOUNTED LINEAR FIXTURE, BACK-OF-HOUSE	DECORATIVE PENDANT, CORRIDORS	ACCOUSTIC CEILING-MOUNTED BAFFLES
2' x 2' RECESSED LED, FLAT PANEL		4" RECESSED LED, TROFFERED	
		DECORATIVE PENDANT, CORRIDORS	STAGE CURTAIN

GENERAL NOTES

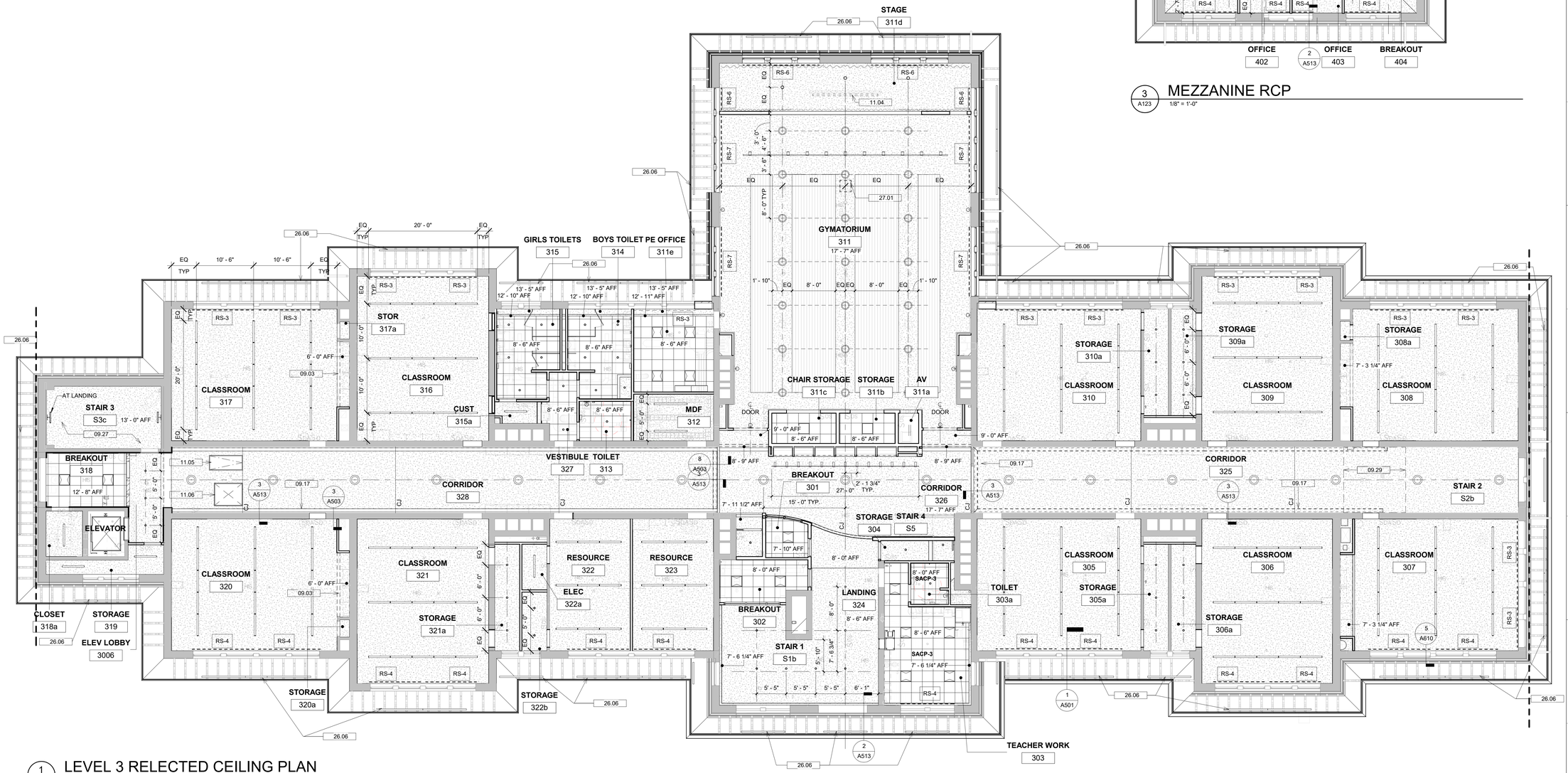
1. DIMENSIONS ARE TO FINISH FACE UNLESS INDICATED OTHERWISE.
2. LIGHT FIXTURES OR GROUP OF LIGHT FIXTURES TO BE CENTERED IN ROOM OR BETWEEN PRIMARY CEILING WALLS UNLESS NOTED OTHERWISE.
3. INSTALL GYPSUM BOARD CEILING ABOVE SACT CEILINGS IN ALL LOCATIONS WHERE SACT IS INDICATED AND WITH EXISTING WOOD JOISTS. REFER TO "SECTION - TYP GYP BOARD CEILING AT SACT" ON CEILING DETAILS SHEET.
4. ALL LEVEL 2 AND LEVEL 3 GYPSUM BOARD CEILINGS SHALL BE INSTALLED ON 6" METAL STUD FRAMING SECURED TO UNDERSIDE OF EXISTING JOISTS OR ROOF TRUSS BOTTOM CORD. REFER TO "SECTION - TYP GYP BOARD CEILING W/ METAL STUDS" ON SHEET A516.
5. LEVEL 1: REFER TO "FINISH TRANSITIONS LEVEL 1" SHEET FOR CEILING COLORS AND EXTENTS IN THE CORRIDORS.
6. LEVEL 2 AND LEVEL 3: INSTALL GYPSUM BOARD CEILING IN ACCORDANCE WITH DETAIL 7/A516 IN ALL SPACES, ABOVE SUSPENDED CEILINGS AND WHERE NO CEILING FINISH IS INDICATED

KEYNOTES

09.03	NEW 3-5/8" METAL STUDS @ 24" O.C.: INSTALL GWB THEN COAT OVER TO MATCH ADJACENT EXISTING PLASTER FINISH.
09.17	CABLE TRAY. REFER TO TELECOM DRAWINGS AND "SECTION - CABLE TRAY" ON INTERIOR SECTION DETAILS SHEET.
09.27	1-HR RATED HORIZONTAL MEMBRANE AER-09038. REFER TO SHEET A002, ASSEMBLY TYPE CS4H
09.29	SEE SHEET A503 FOR EXHAUST FAN ROOM FLOOR DETAIL ABOVE CORRIDOR CEILING
11.04	CEILING-MOUNTED PROJECTOR, REFER TO AV
11.05	2'-0" WIDE RETRACTABLE ALUMINUM STAIR WITH CEILING PANEL
11.06	ATTIC ACCESS DOOR
26.06	EXTERIOR LINEAR SOFFIT LIGHTS MOUNTED TO UNDERSIDE OF ROOF JOISTS. REFER TO ELECTRICAL AND TO SITE PLAN.
27.01	LIFT FOR PROJECTOR SCREEN, REFER TO AV



3 A123 MEZZANINE RCP
1/8" = 1'-0"



1 A123 LEVEL 3 RELECTED CEILING PLAN
1/8" = 1'-0"

PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/3/2023 12:37:39 AM

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1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

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RICHMOND PUBLIC SCHOOLS
2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

BID DOCUMENTS
10/3/2023

REFLECTED CEILING PLAN LEVEL 3 & MEZZANINE

A123

FINISH PLAN NOTES

1. TYPICAL PAINT COLOR IS TO BE PT-1, UNO

2. LEVEL 1: ENSURE EXISTING CONCRETE SUB-FLOOR IS LEVEL. GRIND SMOOTH AND PATCH EXISTING FLOOR WITH FLOOR LEVELING COMPOUND AS REQUIRED. PREPARE FOR INSTALLATION OF NEW FLOORING.

3. LEVEL 2 AND LEVEL 3: INSTALL NEW PLYWOOD SUB-FLOOR OVER EXISTING WOOD SUB-FLOOR AT ALL ROOMS, TYP.
PROVIDE (1) LAYER OF SUB-FLOOR AT LOCATIONS WHERE WOOD PLANK FLOORING IS INDICATION. PROVIDE (2) LAYERS SUB-FLOOR WHERE CARPET, RESILIENT TILE OR RUBBER FLOORING ARE INDICATED. COORDINATE THICKNESS OF NEW SUBFLOOR WITH FLOOR FINISHES AND EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO EXISTING STONE STAIR TREADS, TO ENSURE FINAL HEIGHT OF FLOOR FINISHES ARE FLUSH AT SAME LEVEL. ADVISE ARCHITECT OF CONDITIONS WHERE FLOOR FINISH HEIGHTS WILL NOT ALIGN.

4. LEVEL 2 AND LEVEL 3, CORRIDORS, ALL EXISTING (AND REPLACED) WOOD TRIM, DOORFRAMS, AND BASE TO BE PAINTED PT-3, UNO. CABLE TRAYS ARE TO BE PAINTED PT-5

5. LEVEL 1: ** INDICATES ADDITIONAL FINISH COLORS. REFER TO "FINISH TRANSITIONS LEVEL 1" SHEET FOR STAINED FLOOR COLORS, WALL COLORS (AND CEILING COLORS) AND EXTENTS IN THE CORRIDORS.

6. WHERE SOFFITS ARE NOTED TO BE ACCENT COLOR, PAINT ALL SIDES UNO.

7. FLOOR FINISH CHANGES AT THRESHOLDS SHALL OCCUR AT INSIDE DOOR FRAME CORNER UNDER DOOR PANEL, UNO.

8. ALL EXPOSED CEILINGS ARE TO BE DRYFALL PAINTED PT-5, FLAT FINISH

9. LEVEL 1: REFER TO SHEET A141--FINISH TRANSITIONS LEVEL 1--FOR FLOOR, WALL, AND CEILING STAIN AND PAINT LAYOUTS, EXENTS, AND DIMENSIONS IN CORRIDORS 1001, 1002, 1003, 1005, AND ELEVATOR LOBBY 1006.

10. ALL EXISTING OR REPLACED WALL AND CEILING SURFACES SHALL BE PAINTED UNLESS OTHERWISE NOTED. WHERE A PAINT COLOR IS NOT INDICATED FOR A SPECIFIC SURFACE, NOTIFY ARCHITECT.

FINISH LEGEND

ROOM NAME
ROOM #
FLOOR FINISH
BASE FINISH
WALL FINISH
FINISH TAG
REFER TO PLAN NOTES FOR ACCENT AREAS AND OTHER SPECIFIC INFORMATION.

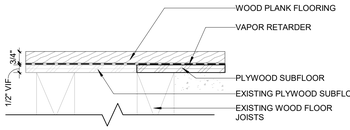
- CPT - CARPET
- SCON - SEALED CONCRETE
- QZ - QUARTZ TILE FLOORING
- WOC - WALK-OFF CARPET
- WPF - WOOD PLANK FLOORING
- CFT - CERAMIC FLOOR TILE
- EFF - MULTI-PART POURED EPOXY FLOOR FINISH
- SC - STAINED CONCRETE
- ESLT - EXISTING SLATE FLOOR TILE & TREADS
- SLT - SLATE FLOOR TILE & TREADS
- ESD - ELECTROSTATIC DISCHARGE TILE
- RF - RUBBER FLOOR

KEYNOTES

09.09	ELEVATOR: REFER TO SPECS, SECTION 142700, FOR FINISH SELECTIONS FOR ELEVATOR INTERIOR SYSTEM
09.21	SINGLE HOLE TOILETS: TYPICAL TILED WALLS ARE FROM FLOOR TO 5'-0" AFF, UNO ON FINISH PLAN. TILE WET WALLS FROM FLOOR TO CEILING; REFER TO "ELEVATION: WET WALL ACCENT TILE" FOR PATTERN.
09.26	PATCH EXISTING BLUE WALL TILE AS NEEDED WITH CWT-13

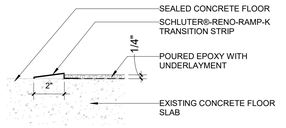
FLOOR FINISH TRANSITIONS

3" = 1'-0"

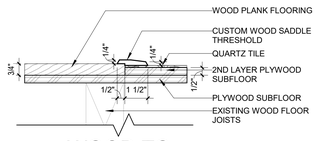


TRANSITION B/W HISTORIC STRUCTURE & EXISTING PLYWOOD SUBFLOOR

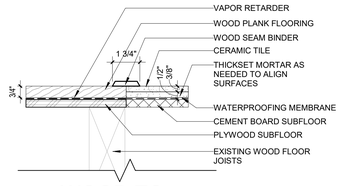
2 / A131 — 3" = 1'-0"



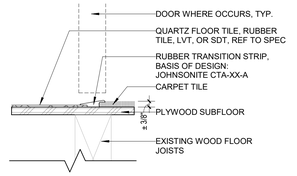
CONCRETE TO MULTI-PART EPOXY FLOOR FINISH



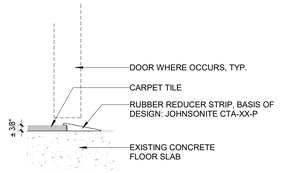
WOOD TO QUARTZ TILE



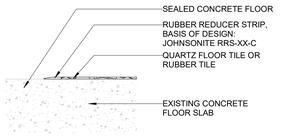
WOOD TO CERAMIC TILE



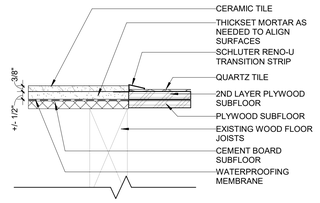
QZ, RF TO CARPET TILE



CARPET TILE TO CONCRETE



CONCRETE TO QZ, RF



CERAMIC TILE TO QUARTZ TILE

1 / A131 — 1/8" = 1'-0"

LEVEL 1 - FINISH PLAN

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1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

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RICHMOND PUBLIC SCHOOLS

WILLIAM FOX ELEMENTARY SCHOOL RECONSTRUCTION

RICHMOND PUBLIC SCHOOLS
2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

BID DOCUMENTS
10/3/2023

FINISH PLAN LEVEL 1

A131

FINISH PLAN NOTES

1. TYPICAL PAINT COLOR IS TO BE PT-1, UNO

2. LEVEL 1: ENSURE EXISTING CONCRETE SUB-FLOOR IS LEVEL. GRIND SMOOTH AND PATCH EXISTING FLOOR WITH FLOOR LEVELING COMPOUND AS REQUIRED. PREPARE FOR INSTALLATION OF NEW FLOORING.

3. LEVEL 2 AND LEVEL 3: INSTALL NEW PLYWOOD SUB-FLOOR OVER EXISTING WOOD SUB-FLOOR AT ALL ROOMS, TYP.
PROVIDE (1) LAYER OF SUB-FLOOR AT LOCATIONS WHERE WOOD PLANK FLOORING IS INDICATION. PROVIDE (2) LAYERS SUB-FLOOR WHERE CARPET, RESILIENT TILE OR RUBBER FLOORING ARE INDICATED. COORDINATE THICKNESS OF NEW SUBFLOOR WITH FLOOR FINISHES AND EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO EXISTING STONE STAIR TREADS, TO ENSURE FINAL HEIGHT OF FLOOR FINISHES ARE FLUSH AT SAME LEVEL. ADVISE ARCHITECT OF CONDITIONS WHERE FLOOR FINISH HEIGHTS WILL NOT ALIGN.

4. LEVEL 2 AND LEVEL 3, CORRIDORS, ALL EXISTING (AND REPLACED) WOOD TRIM, DOORFRAMS, AND BASE TO BE PAINTED PT-3, UNO. CABLE TRAYS ARE TO BE PAINTED PT-5

5. LEVEL 1: ** INDICATES ADDITIONAL FINISH COLORS. REFER TO "FINISH TRANSITIONS LEVEL 1" SHEET FOR STAINED FLOOR COLORS, WALL COLORS (AND CEILING COLORS) AND EXTENTS IN THE CORRIDORS.

6. WHERE SOFFITS ARE NOTED TO BE ACCENT COLOR, PAINT ALL SIDES UNO.

7. FLOOR FINISH CHANGES AT THRESHOLDS SHALL OCCUR AT INSIDE DOOR FRAME CORNER UNDER DOOR PANEL, UNO.

8. ALL EXPOSED CEILINGS ARE TO BE DRYFALL PAINTED PT-5, FLAT FINISH

9. LEVEL 1: REFER TO SHEET A141--FINISH TRANSITIONS LEVEL 1--FOR FLOOR, WALL, AND CEILING STAIN AND PAINT LAYOUTS, EXENTS, AND DIMENSIONS IN CORRIDORS 1001, 1002, 1003, 1005, AND ELEVATOR LOBBY 1006.

10. ALL EXISTING OR REPLACED WALL AND CEILING SURFACES SHALL BE PAINTED UNLESS OTHERWISE NOTED. WHERE A PAINT COLOR IS NOT INDICATED FOR A SPECIFIC SURFACE, NOTIFY ARCHITECT.

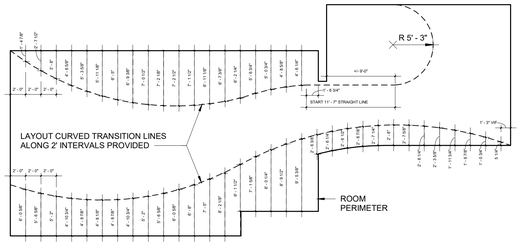
FINISH LEGEND

ROOM NAME
ROOM #
FLOOR FINISH
BASE FINISH
WALL FINISH
FINISH TAG
REFER TO PLAN NOTES FOR ACCENT AREAS AND OTHER SPECIFIC INFORMATION.

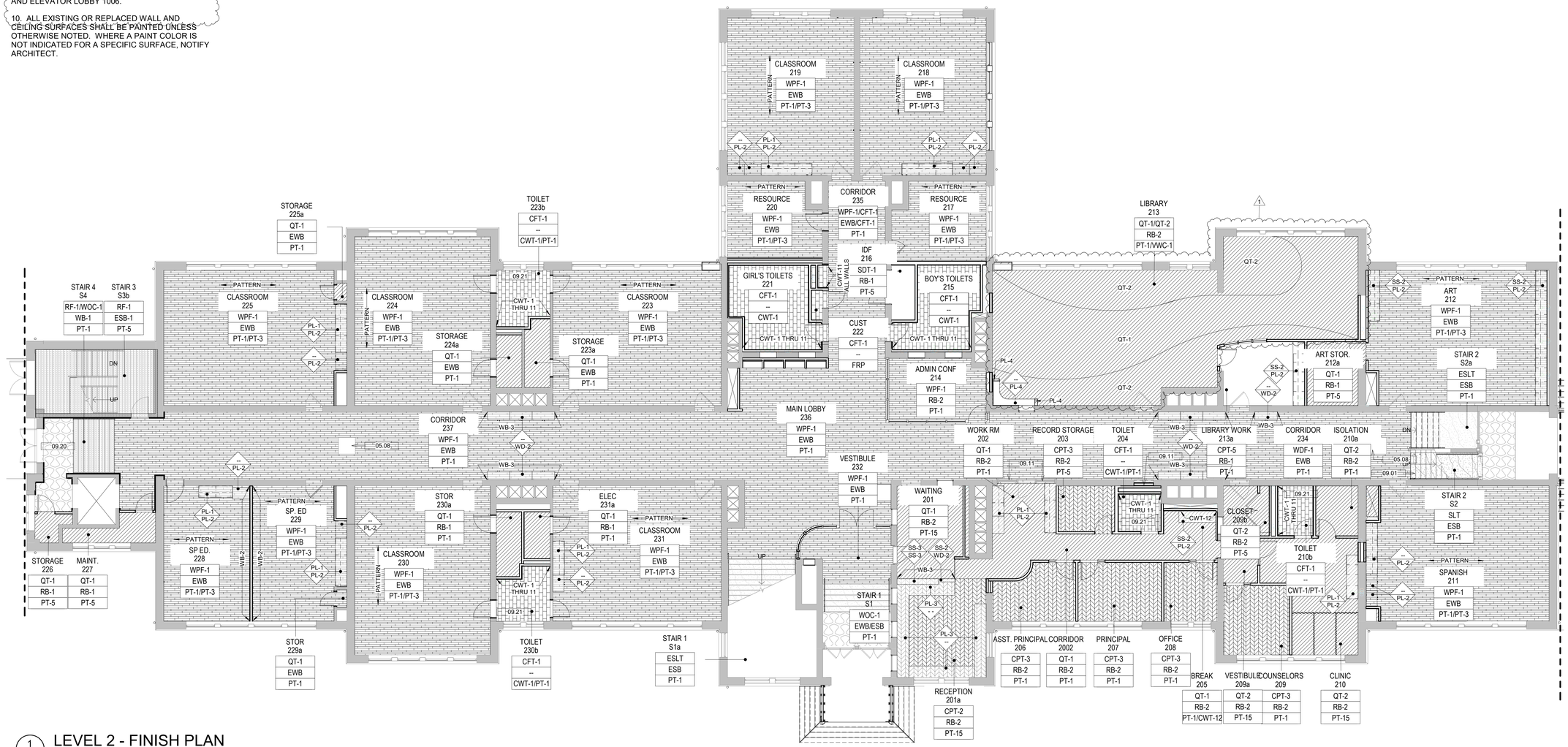
- CPT - CARPET
- SCON - SEALED CONCRETE
- QZ - QUARTZ TILE FLOORING
- WOC - WALK-OFF CARPET
- WPF - WOOD PLANK FLOORING
- CFT - CERAMIC FLOOR TILE
- EFF - MULTI-PART POURED EPOXY FLOOR FINISH
- SC - STAINED CONCRETE
- ESLT - EXISTING SLATE FLOOR TILE & TREADS
- SLT - SLATE FLOOR TILE & TREADS
- ESD - ELECTROSTATIC DISCHARGE TILE
- RF - RUBBER FLOOR

KEYNOTES

05.08	EXISTING FLOOR GRILL, TO REMAIN
09.01	NEW SLATE TREADS; MATCH EXISTING COLOR. REPLACEMENT SLATE TO BE APPROVED BY ARCHITECT.
09.11	PROVIDE OPAQUE VF-5 AT INSIDE FACE OF GLAZING, REFER TO INTERIOR ELEVATION
09.20	WALK-OFF CARPET TILE
09.21	SINGLE HOLE TOILETS: TYPICAL TILED WALLS ARE FROM FLOOR TO 5'-0" AFF, UNO ON FINISH PLAN. TILE WET WALLS FROM FLOOR TO CEILING; REFER TO "ELEVATION: WET WALL ACCENT TILE" FOR PATTERN.



LIBRARY CARPET LAYOUT PLAN



1 LEVEL 2 - FINISH PLAN
A132 — 1/8" = 1'-0"

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

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RICHMOND PUBLIC SCHOOLS
2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description
1	10/18/2023	ADDENDUM 001

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

BID DOCUMENTS
10/3/2023

FINISH PLAN LEVEL 2

A132

PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/31/2023 12:37:46 AM

FINISH PLAN NOTES

1. TYPICAL PAINT COLOR IS TO BE PT-1, UNO

2. LEVEL 1: ENSURE EXISTING CONCRETE SUB-FLOOR IS LEVEL. GRIND SMOOTH AND PATCH EXISTING FLOOR WITH FLOOR LEVELING COMPOUND AS REQUIRED. PREPARE FOR INSTALLATION OF NEW FLOORING.

3. LEVEL 2 AND LEVEL 3: INSTALL NEW PLYWOOD SUB-FLOOR OVER EXISTING WOOD SUB-FLOOR AT ALL ROOMS, TYP.
PROVIDE (1) LAYER OF SUB-FLOOR AT LOCATIONS WHERE WOOD PLANK FLOORING IS INDICATION. PROVIDE (2) LAYERS SUB-FLOOR WHERE CARPET, RESILIENT TILE OR RUBBER FLOORING ARE INDICATED. COORDINATE THICKNESS OF NEW SUBFLOOR WITH FLOOR FINISHES AND EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO EXISTING STONE STAIR TREADS, TO ENSURE FINAL HEIGHT OF FLOOR FINISHES ARE FLUSH AT SAME LEVEL. ADVISE ARCHITECT OF CONDITIONS WHERE FLOOR FINISH HEIGHTS WILL NOT ALIGN.

4. LEVEL 2 AND LEVEL 3, CORRIDORS, ALL EXISTING (AND REPLACED) WOOD TRIM, DOORFRAMS, AND BASE TO BE PAINTED PT-3, UNO. CABLE TRAYS ARE TO BE PAINTED PT-5

5. LEVEL 1: ** INDICATES ADDITIONAL FINISH COLORS. REFER TO "FINISH TRANSITIONS LEVEL 1" SHEET FOR STAINED FLOOR COLORS, WALL COLORS (AND CEILING COLORS) AND EXTENTS IN THE CORRIDORS.

6. WHERE SOFFITS ARE NOTED TO BE ACCENT COLOR, PAINT ALL SIDES UNO.

7. FLOOR FINISH CHANGES AT THRESHOLDS SHALL OCCUR AT INSIDE DOOR FRAME CORNER UNDER DOOR PANEL, UNO.

8. ALL EXPOSED CEILINGS ARE TO BE DRYFALL PAINTED PT-5, FLAT FINISH

9. LEVEL 1: REFER TO SHEET A141--FINISH TRANSITIONS LEVEL 1--FOR FLOOR, WALL, AND CEILING STAIN AND PAINT LAYOUTS, EXENTS, AND DIMENSIONS IN CORRIDORS 1001, 1002, 1003, 1005, AND ELEVATOR LOBBY 1006.

10. ALL EXISTING OR REPLACED WALL AND CEILING SURFACES SHALL BE PAINTED UNLESS OTHERWISE NOTED. WHERE A PAINT COLOR IS NOT INDICATED FOR A SPECIFIC SURFACE, NOTIFY ARCHITECT.

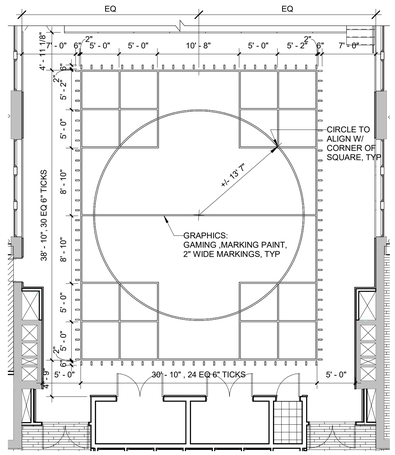
FINISH LEGEND

ROOM NAME
ROOM #
FLOOR FINISH
BASE FINISH
WALL FINISH
FINISH TAG
REFER TO PLAN NOTES FOR ACCENT AREAS AND OTHER SPECIFIC INFORMATION.

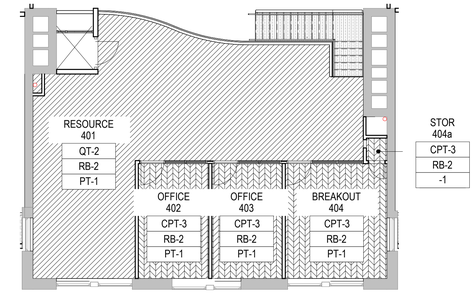
- CPT - CARPET
- SCON - SEALED CONCRETE
- QZ - QUARTZ TILE FLOORING
- WOC - WALK-OFF CARPET
- WPF - WOOD PLANK FLOORING
- CFT - CERAMIC FLOOR TILE
- EFF - MULTI-PART POURED EPOXY FLOOR FINISH
- SC - STAINED CONCRETE
- ESLT - EXISTING SLATE FLOOR TILE & TREADS
- SLT - SLATE FLOOR TILE & TREADS
- ESD - ELECTROSTATIC DISCHARGE TILE
- RF - RUBBER FLOOR

KEYNOTES

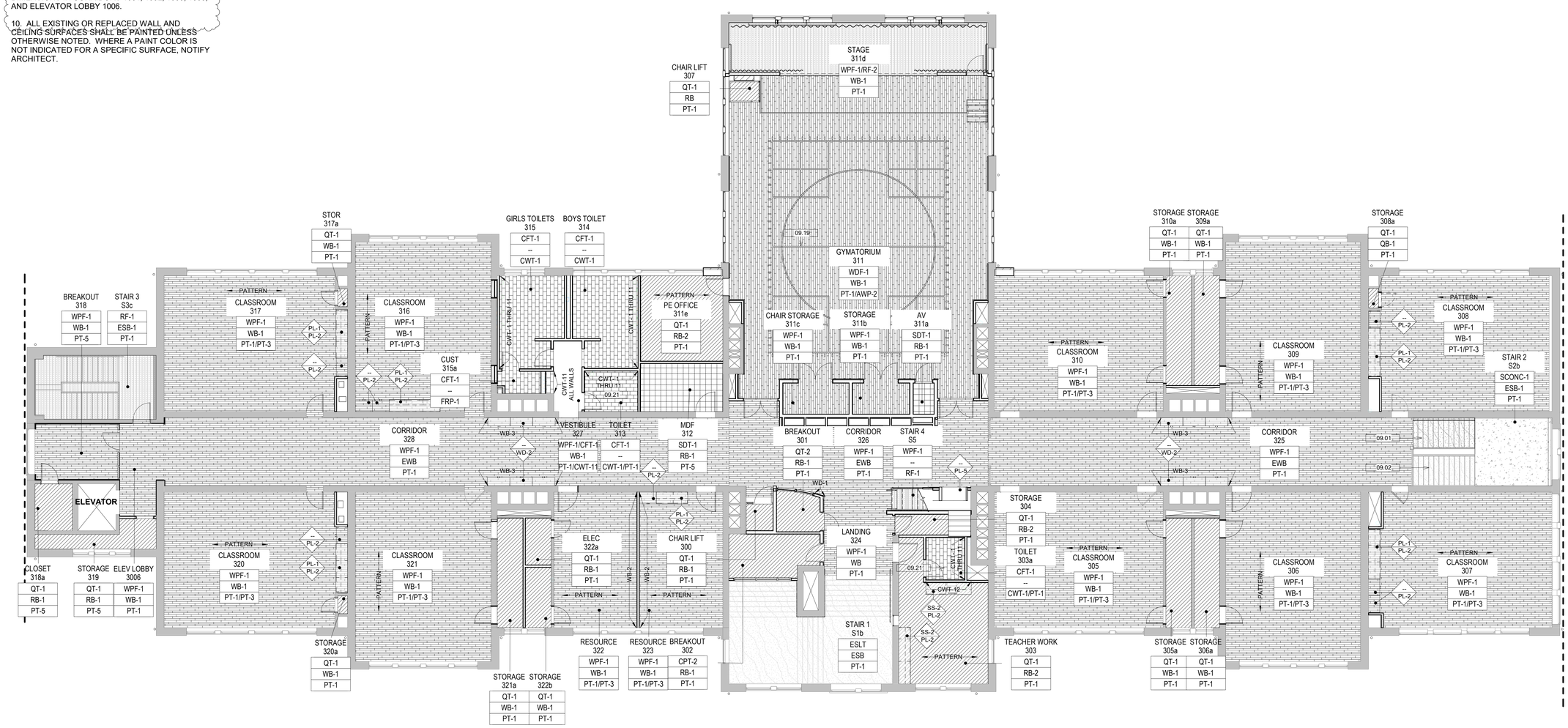
09.01	NEW SLATE TREADS; MATCH EXISTING COLOR. REPLACEMENT SLATE TO BE APPROVED BY ARCHITECT.
09.02	EXISTING SLATE TREADS.
09.19	FLOOR GRAPHICS, REFER TO GYMATORIUM FLOOR GRAPHICS DRAWING.
09.21	SINGLE HOLE TOILETS: TYPICAL TILED WALLS ARE FROM FLOOR TO 5'-0" AFF, UNO ON FINISH PLAN. TILE WET WALLS FROM FLOOR TO CEILING. REFER TO "ELEVATION: WET WALL ACCENT TILE" FOR PATTERN.



2 A133 LEVEL 3 - GYMATORIUM FLOOR GRAPHICS
1/8" = 1'-0"



3 A133 MEZZANINE - FINISH PLAN
1/8" = 1'-0"



1 A133 LEVEL 3 - FINISH PLAN
1/8" = 1'-0"

PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/3/2023 12:37:51 AM

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WILLIAM FOX ELEMENTARY SCHOOL RECONSTRUCTION

RICHMOND PUBLIC SCHOOLS
2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description

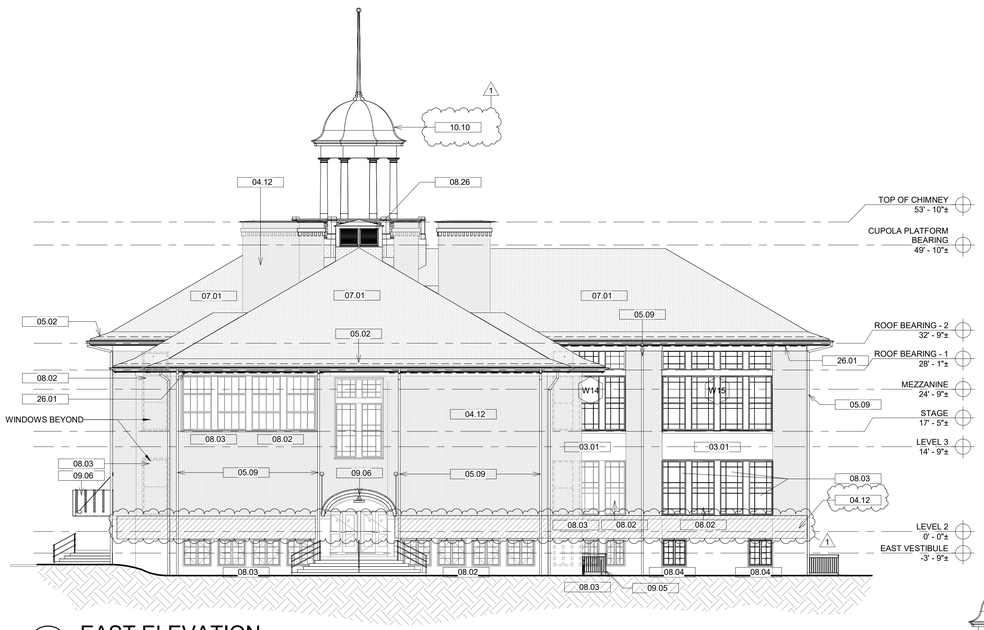
PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

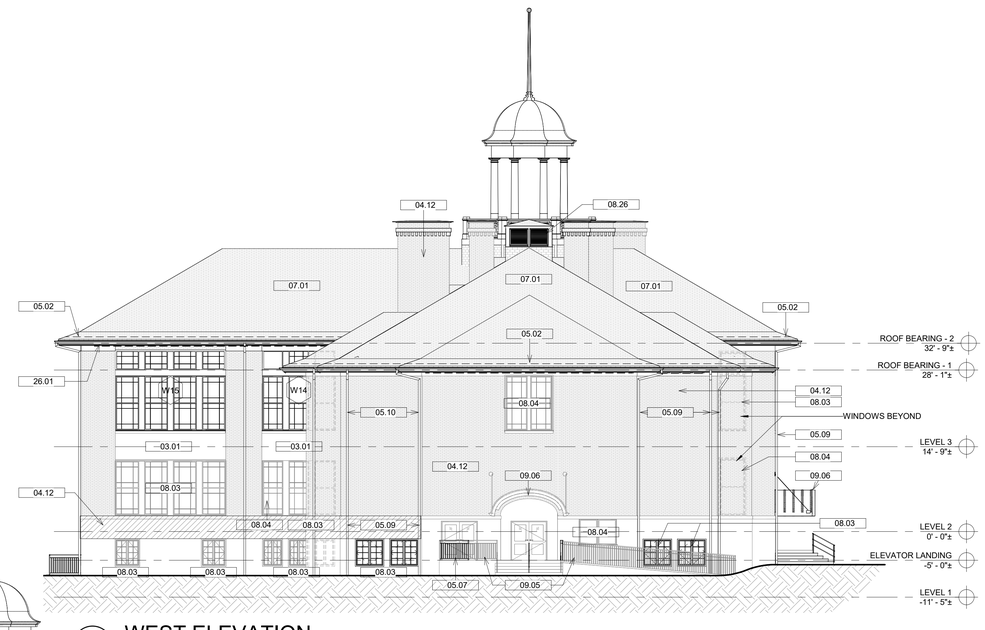
BID DOCUMENTS
10/3/2023

FINISH PLAN LEVEL 3 & MEZZANINE

A133



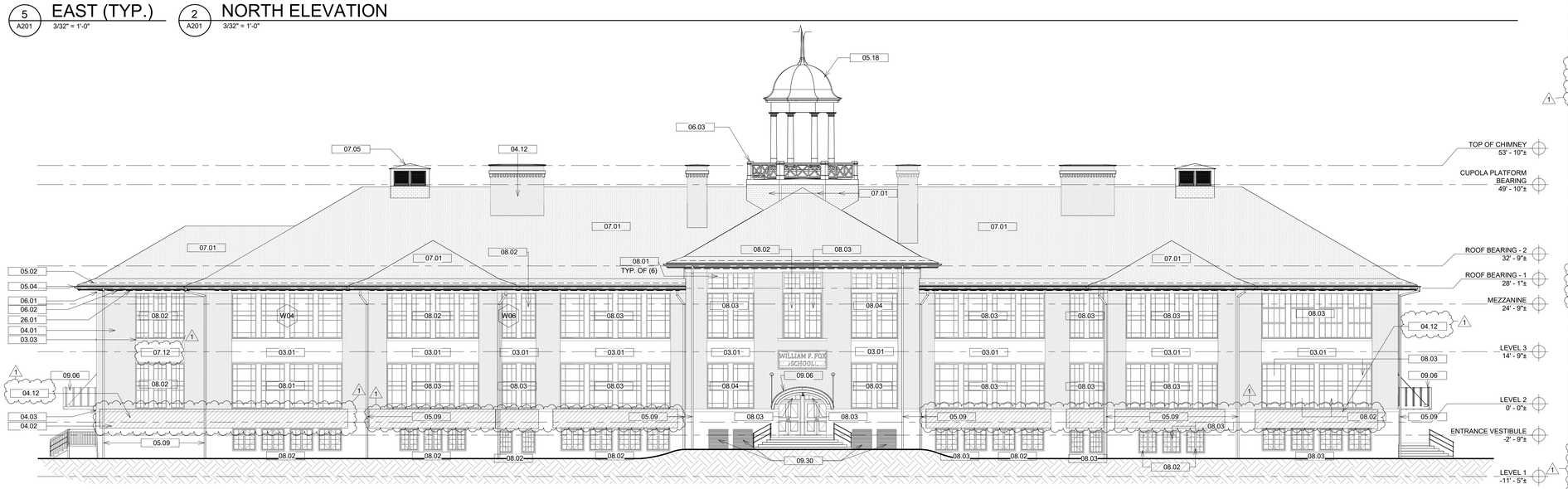
3 A201 **EAST ELEVATION**
3/32" = 1'-0"



4 A201 **WEST ELEVATION**
3/32" = 1'-0"

5 A201 **EAST (TYP.)**
3/32" = 1'-0"

2 A201 **NORTH ELEVATION**
3/32" = 1'-0"



1 A201 **SOUTH ELEVATION**
3/32" = 1'-0"

KEYNOTES

03.01	EXISTING STUCCO FINISH, PREPARE & PAINT
03.03	EXISTING PRECAST SILL
04.01	EXISTING BRICK MASONRY, TYPICAL
04.02	EXISTING STONE MASONRY, TYPICAL
04.03	EXISTING STONE SILL, TYPICAL
04.12	HATCHED AREA INDICATES APPROXIMATE EXTENTS OF AREA OF MASONRY JOINTS TO BE REPAIRED AND REPOINTED. TYPICAL AT ALL AREAS WITH DIAGONAL HATCH. REFER TO SPECIFICATIONS FOR MASONRY MAINTENANCE METHODS, MATERIALS AND REQUIREMENTS. CONTRACTOR SHALL ADVISE ARCHITECT OF OTHER AREAS OF MASONRY IN NEED OF MAINTENANCE DISCOVERED DURING THE COURSE OF THE WORK.
05.02	SNOW GUARD RAILS
05.04	COPPER HALF-ROUND GUTTER TO DOWNSPOUT
05.07	NEW DECORATIVE METAL RAILING TO INFILL MISSING SECTION. MATCH EXISTING RAILING DESIGN.
05.09	EXISTING CAST IRON DOWNSPOUT BOOT. PREPARE FOR NEW PAINT BY REMOVING ALL LOOSE, FLAKING OR OTHERWISE COMPROMISED PAINT & COATINGS, AND IN ACCORDANCE WITH WRITTEN INSTRUCTIONS FROM NEW PAINT/COATING M.F.R.
05.10	COPPER DOWNSPOUT, 4" ROUND
05.18	PREFABRICATED CUPOLA, REFER TO ROOF PLANS AND DETAILS
06.01	EXISTING WOOD FASCIA, PREPARE & PAINT, TYPICAL
06.02	NEW COMPOSITE ORNAMENTAL RAFTER TAIL AT EACH STRUCTURAL RAFTER
06.03	COMPOSITE POSTS AND RAILINGS AT CUPOLA PLATFORM. REFER ROOF PLAN AND DETAILS.
07.01	ASPHALT SHINGLE ROOFING
07.05	ASPHALT SHINGLE ROOFING ON VENTILATION DOGHOUSE. REFER ROOF PLAN AND DETAILS.
07.12	NEW EXTERIOR INSULATED FINISH SYSTEM TO REPLACE DAMAGED SYSTEM. BASIS-OF-DESIGN: STOTHERM CI XPS OR EQUAL, 3-COAT FINISH OVER XPS ON AIR-BARRIER COATED, FIBERGLAS MAT-FACED GYPSUM SHEATHING OVER EXISTING METAL FRAMING. INCLUDE ALL SEALANTS, FLASHINGS, AND OTHER COMPONENTS FOR COMPLETE SYSTEM.
08.01	WINDOW MISSING OR VERY POOR, REPLACEMENT FOR NEW
08.02	WINDOW IN POOR CONDITION, SEE NOTES FOR RESTORATION SCOPE
08.03	WINDOW IN FAIR CONDITION, SEE NOTES FOR RESTORATION SCOPE
08.04	WINDOW IN GOOD CONDITION, SEE NOTES FOR RESTORATION SCOPE
08.08	REMOVE AND REPLACE EXISTING SCREEN W/ EXTERIOR STORM WINDOW, TYP. FOR ALL WINDOWS W/ SCREEN ON THIS LEVEL
08.26	NEW LOUVER, REFER TO ROOF PLANS AND DETAILS
09.05	PAINT EXISTING & NEW METAL RAILING
09.06	PAINT METAL CANOPY
09.30	PREPARE AND PAINT EXISTING LOUVERS. REMOVE AND REPLACE SEALANT AT FULL PERIMETER. (INCLUDING (4) LOUVERS NOT SHOWN ON ADJACENT WALLS. REFER TO FLOOR PLANS.
10.10	CUPOLA: PREFABRICATED HISTORIC REPLICA CUPOLA. PROVIDE TURN-KEY ENGINEERING, MANUFACTURING AND INSTALLATION OF CUPOLA INCLUDING ALL ADDITIONAL STRUCTURAL ELEMENTS, BEARING PLATES, ANCHORS, FASTENERS AND OTHER ASSOCIATED COMPONENTS REQUIRED FOR COMPLETE WATER-TIGHT INSTALLATION. REFER TO DETAILS ON SHEET A502. CONTRACTOR SHALL COORDINATE INSTALLATION OF SUPPORT AND ANCHORING METHODS WITH CUPOLA MANUFACTURER AND ROOFING INSTALLATION.
26.01	LINEAR LIGHTS MOUNTED TO UNDERSIDE OF RAFTER TAILS, CONTINUOUS ALONG FRONT AND SIDES OF BUILDING. REFER TO ELECTRICAL.

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SUITE 400
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WILLIAM FOX ELEMENTARY SCHOOL RECONSTRUCTION

RICHMOND PUBLIC SCHOOLS
2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description
1	10/18/2023	ADDENDUM 001

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

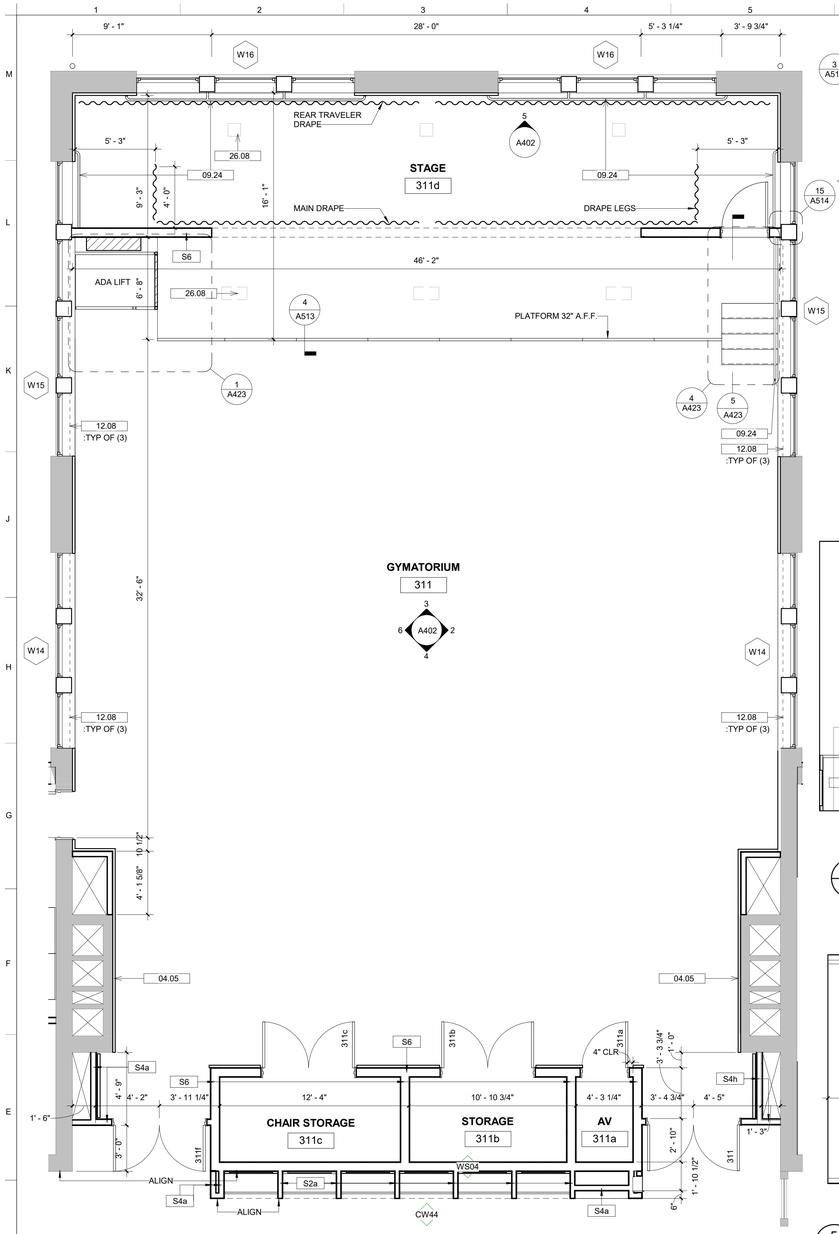
QEA No.42240940

BID DOCUMENTS
10/3/2023

BUILDING ELEVATIONS

A201

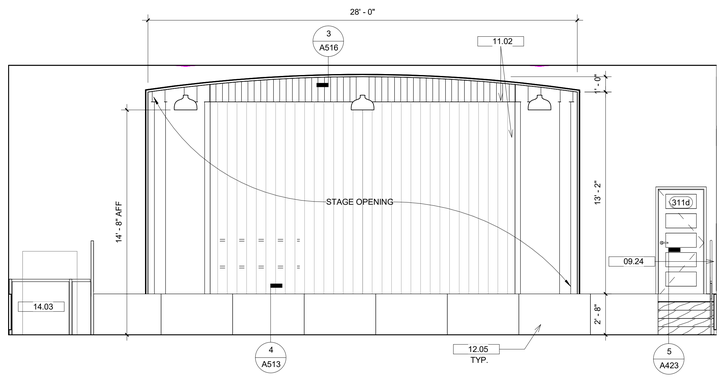
PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/31/2023 12:28:00 AM



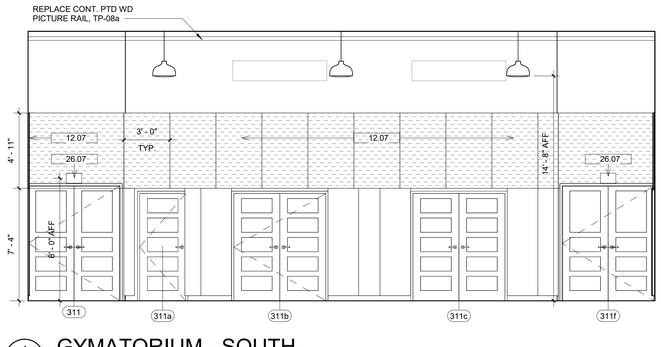
1 A402 GYMATORIUM - EAST
1/4" = 1'-0"

KEYNOTES

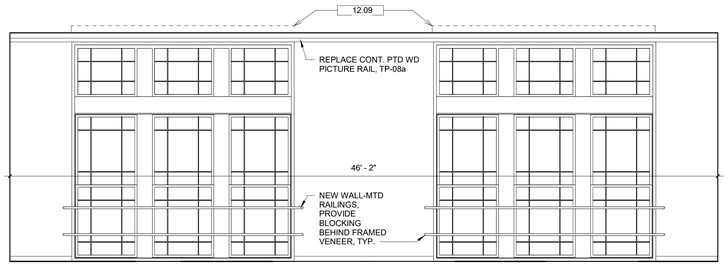
04.05	PATCH HOLES OF EXISTING CHIMNEYS WITH BRICK - THICKNESS TO MATCH EXISTING WALL
09.24	HANDRAIL, PAINT PT-4.
11.02	CEILING-MOUNTED STAGE CURTAIN, REFER TO SPECS
12.05	2" CONTINUOUS REMOVABLE SPORTS WALL PADS ON Z-CLIPS
12.06	2" X 2" CONTINUOUS SAFETY WALL PADS, MOUNT ABOVE 4" WOOD WALL BASE
12.07	ACOUSTICAL WALL PANELS, AWP-02
12.08	PROTECTIVE NETTING SYSTEM IN FRONT OF WINDOWS AT GYM. INSTALL SCREW EYES AT JAMBS AS SHOWN ON A611, 12" MIN SPACING. FASTEN NETTING PANEL TO EYES HOOKS IN TENSION W/ CARABINERS, ALIGN WITH TOP OF ADJACENT WALL PADS.
12.09	ROLLER SHADE. REFER TO REFLECTED CEILING PLANS.
14.03	VERTICAL WHEEL CHAIR LIFT, REFER TO ENLARGED DRAWINGS
26.07	DECORATIVE SCONCE, REFER TO ELECTRICAL
26.08	FLOOR OUTLET, REFER TO ELECTRICAL & TELECOM. COORDINATE FINAL LOCATION WITH ARCHITECT.



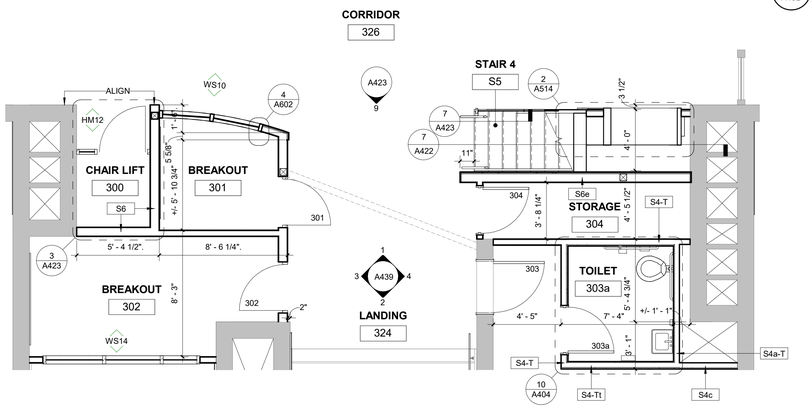
3 A402 GYMATORIUM - NORTH, STAGE
1/4" = 1'-0"



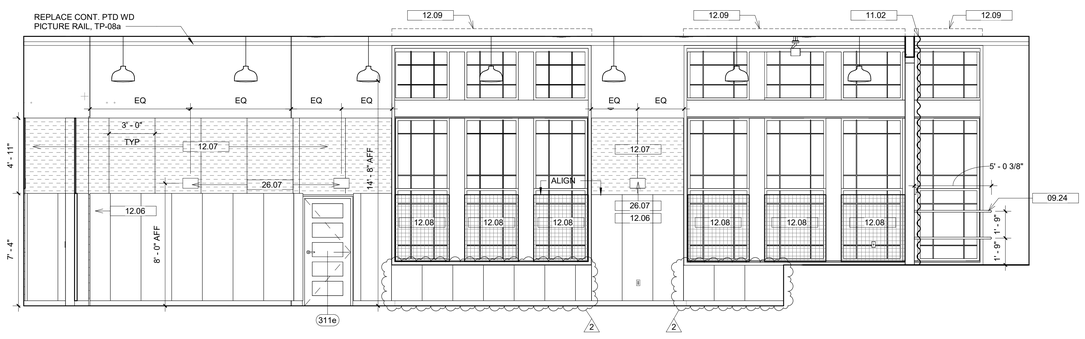
4 A402 GYMATORIUM - SOUTH
1/4" = 1'-0"



5 A402 GYMATORIUM - NORTH, BACK STAGE
1/4" = 1'-0"



1 A402 ENLARGED PLAN - GYMATORIUM & L3 CENTRAL CORE
1/4" = 1'-0"



6 A402 GYMATORIUM - WEST
1/4" = 1'-0"

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RICHMOND, VA 23220

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STATE PROJECT No: 123-20-00-101

No.	Date	Description
2	10/27/2023	ADDENDUM 002

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

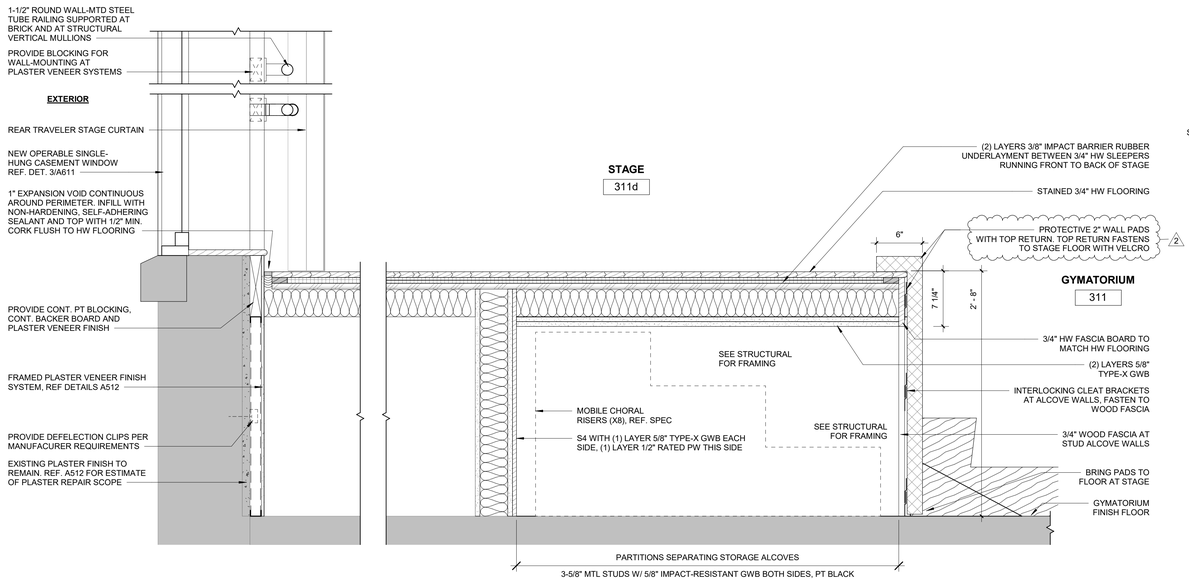
QEA No.42240940

BID DOCUMENTS
10/3/2023

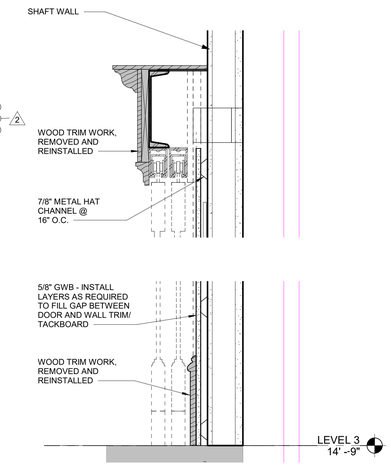
ENLARGED PLAN/ELEVS - GYMATORIUM

A402

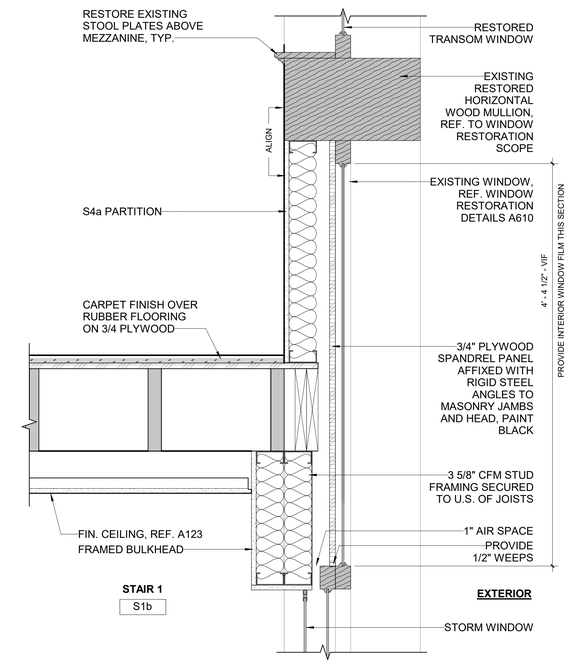
PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/28/2023 9:35:49 PM



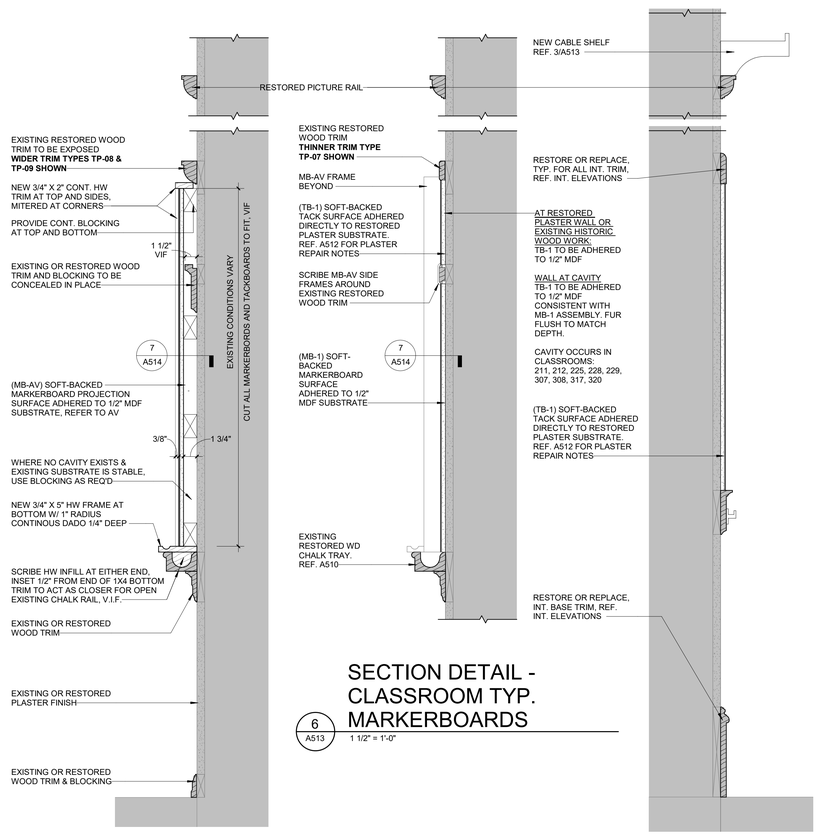
4 A513 SECTION DETAIL - STAGE
1 1/2" = 1'-0"



9 A513 SECTION DETAIL - TRACK & SHAFT WALL
1 1/2" = 1'-0"

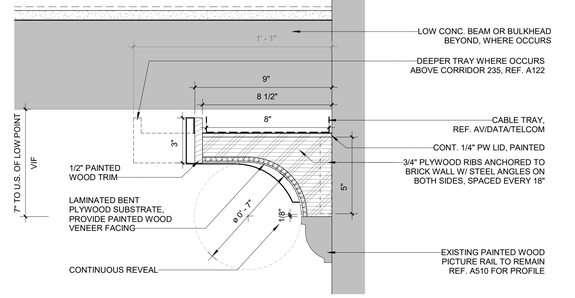


2 A513 SECTION DETAIL - MEZZANINE FLOOR AT EXTERIOR WALL
1 1/2" = 1'-0"

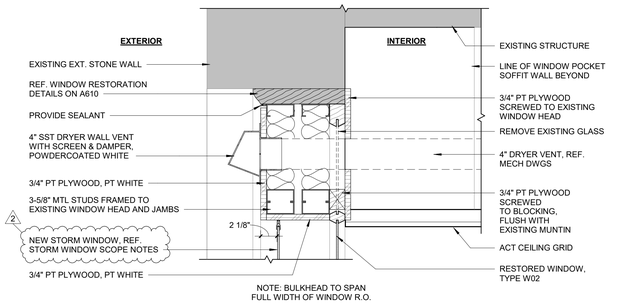


6 A513 SECTION DETAIL - CLASSROOM TYP. MARKERBOARDS
1 1/2" = 1'-0"

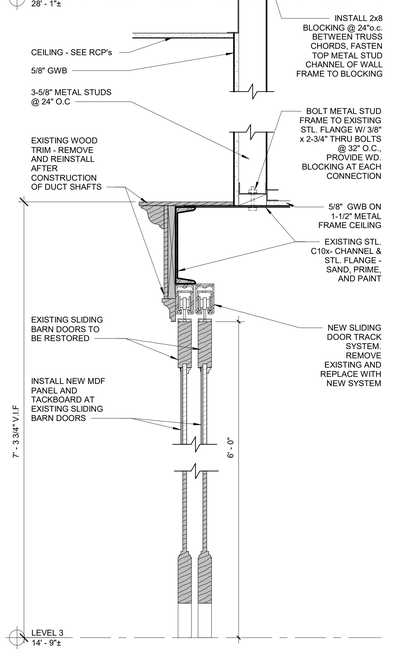
1 A513 SECTION DETAIL - CLASSROOM MB-AV MARKERBOARDS
1 1/2" = 1'-0"



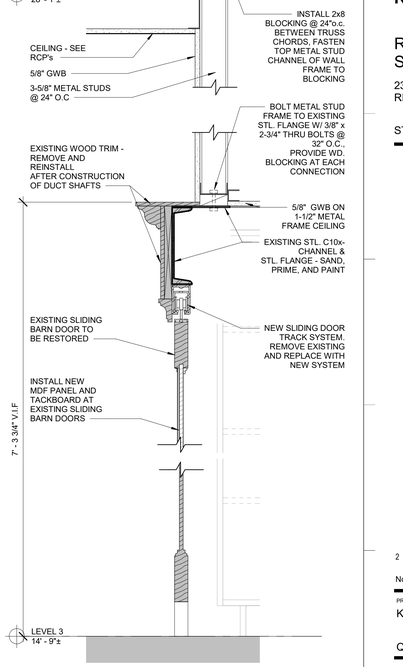
3 A513 SECTION - CABLE TRAY SHELF
3" = 1'-0"



5 A513 SECTION DETAIL - EXT. DRYER VENT BULKHEAD AT RESTORED WINDOW
1 1/2" = 1'-0"



8 A513 SECTION DETAIL - CLASSROOM 307 STORAGE WALL
1 1/2" = 1'-0"



10 A513 TYP. SECTION DETAIL - CLASSROOMS 307, 317, AND 320
1 1/2" = 1'-0"

7 A513 SECTION DETAIL - CORRIDOR CONT. TRIM & TACKBOARDS
1 1/2" = 1'-0"

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No.	Date	Description
2	10/27/2023	ADDENDUM 002

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

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10/3/2023

INTERIOR SECTION DETAILS

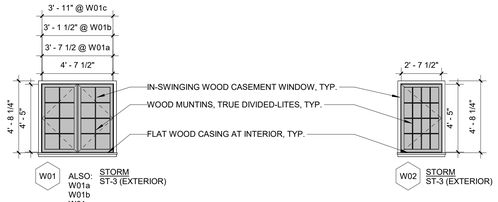
A513

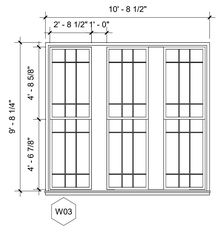
PATH & FILENAME: Autodesk Docs://Wiliam Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/28/2023 9:35:51 PM

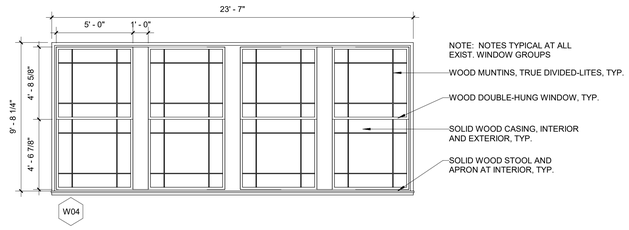
EXISTING WINDOW GROUPS - RESTORATION SCOPE

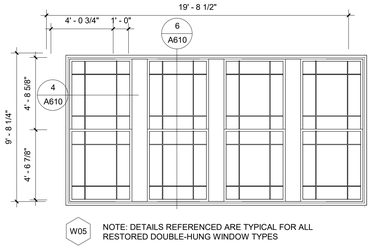
3/8" = 1'-0"

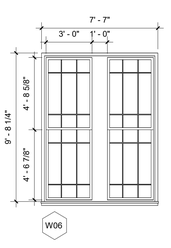
NOTE: REFER TO SHEET A611 FOR WINDOW RESTORATION SCOPE NOTES AND STORM WINDOW SCOPE NOTES.

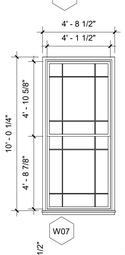


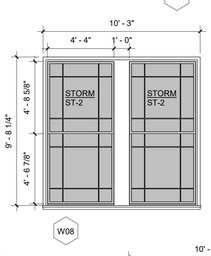


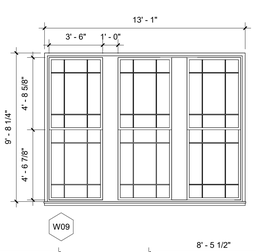


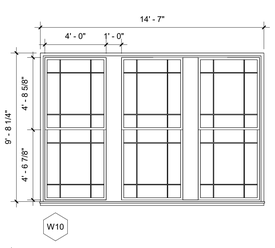


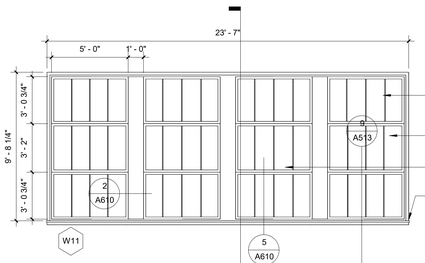


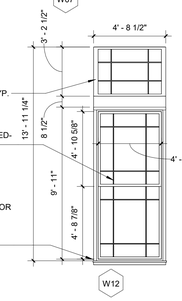


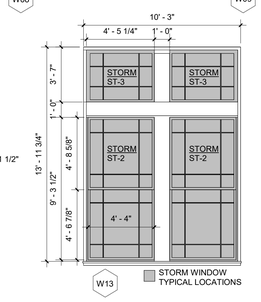




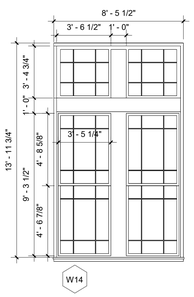


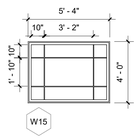


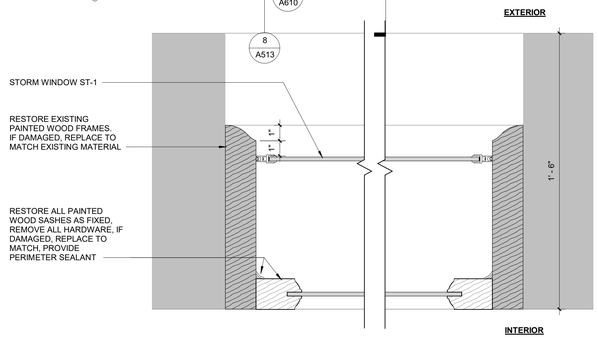




STORM WINDOW TYPICAL LOCATIONS

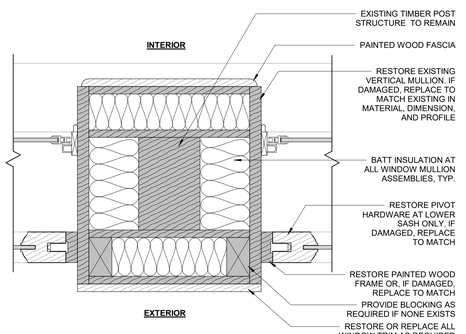






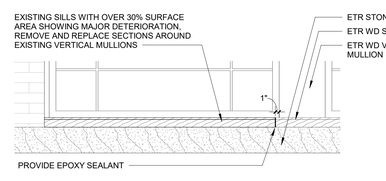
1 A610 JAMB DETAILS AT RESTORED WINDOWS TYPE W01-W02

3" = 1'-0"



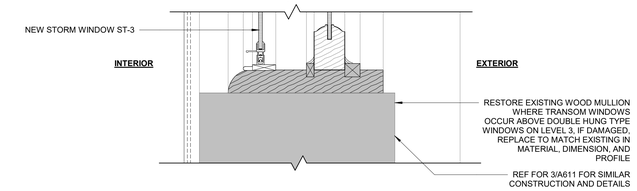
2 A610 JAMB AT RESTORED WINDOWS TYPE W11

3" = 1'-0"



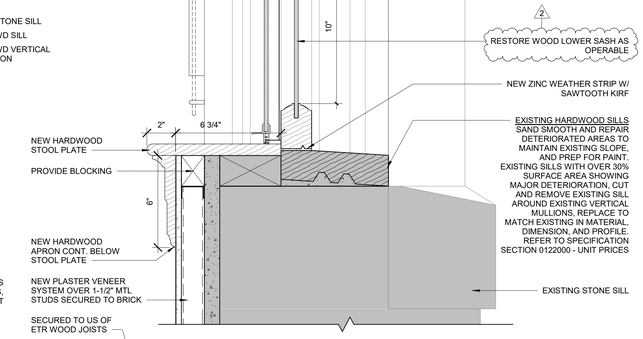
10 A610 REPLACEMENT EXT. WD SILL

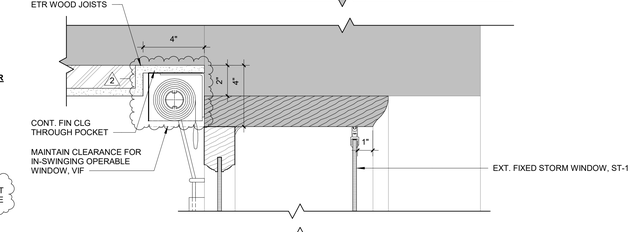
3/4" = 1'-0"



3 A610 TYPICAL RESTORED WINDOW HEAD/SILL DETAILS - TRANSOM

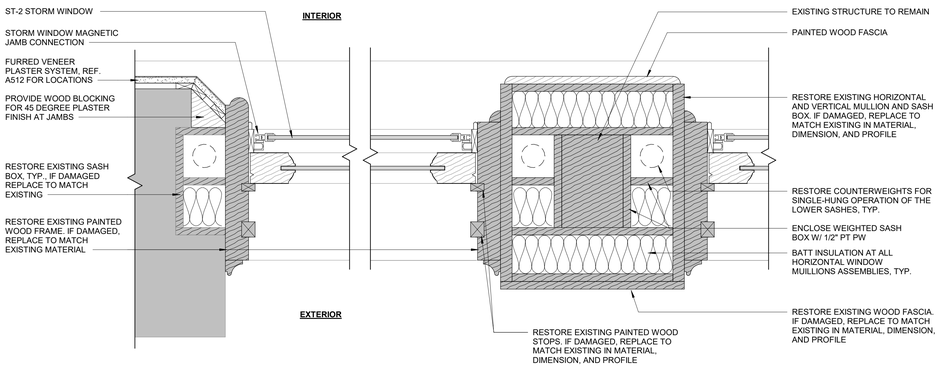
3" = 1'-0"





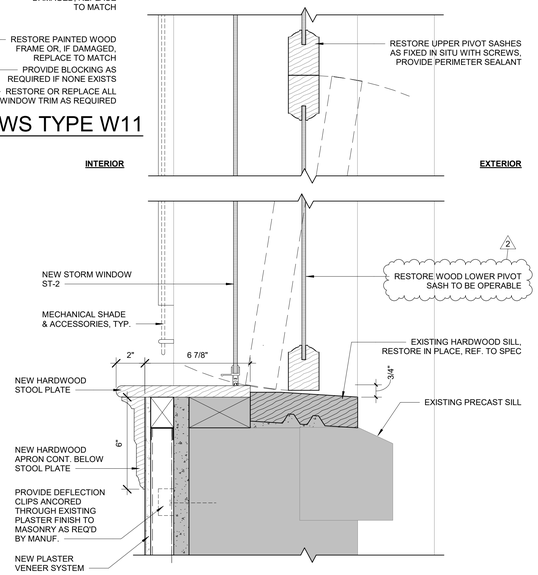
6 A610 TYPICAL RESTORED WINDOW HEAD/SILL DETAILS - LEVEL 1-3

3" = 1'-0"



4 A610 JAMB DETAILS AT RESTORED WINDOWS TYPE W03-W10, W12-W15

3" = 1'-0"



5 A610 SILL DETAIL AT WINDOWS TYPE W11

3" = 1'-0"

PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/31/2023 12:38:01 AM

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1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220

v 804.788.4774

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2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description
2	10/31/2023	ADDENDUM 002

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

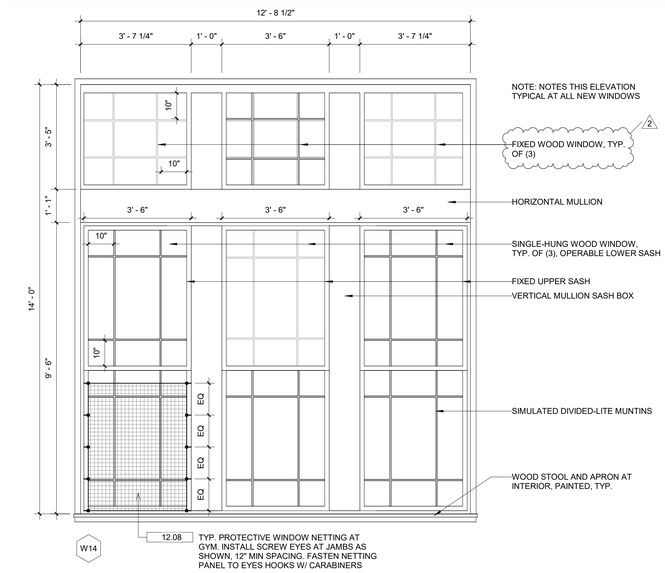
QEA No.42240940

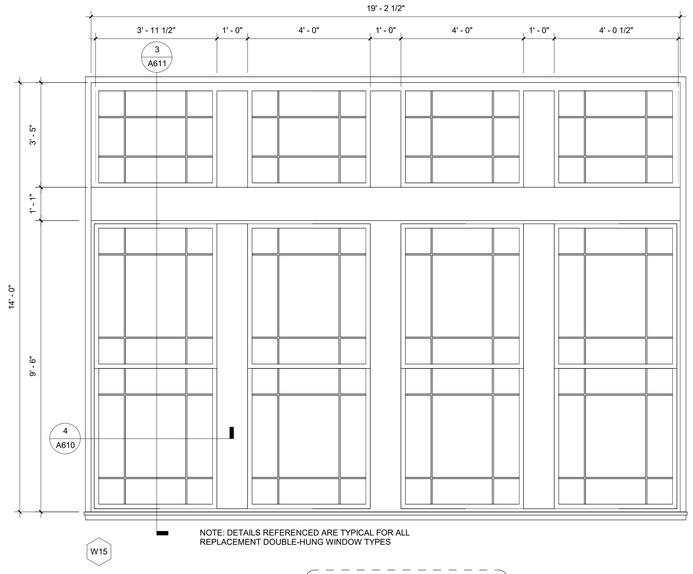
BID DOCUMENTS
10/3/2023

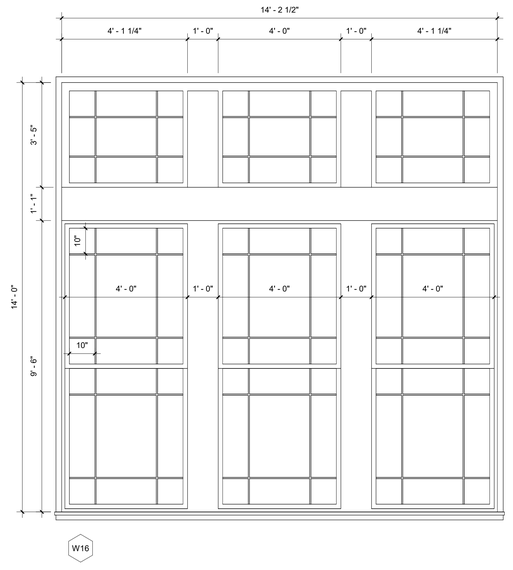
EXISTING WINDOW RESTORATION

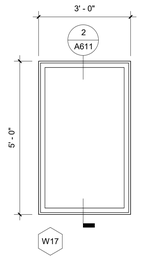
A610

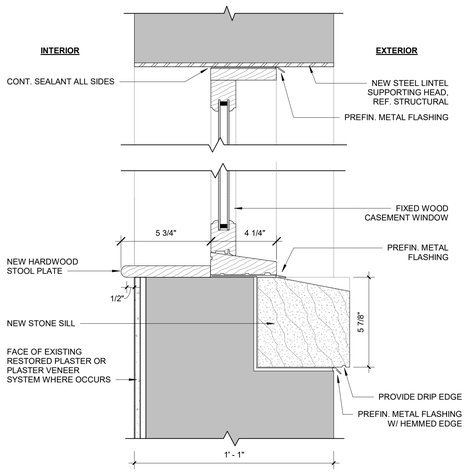
NEW WINDOW GROUPS





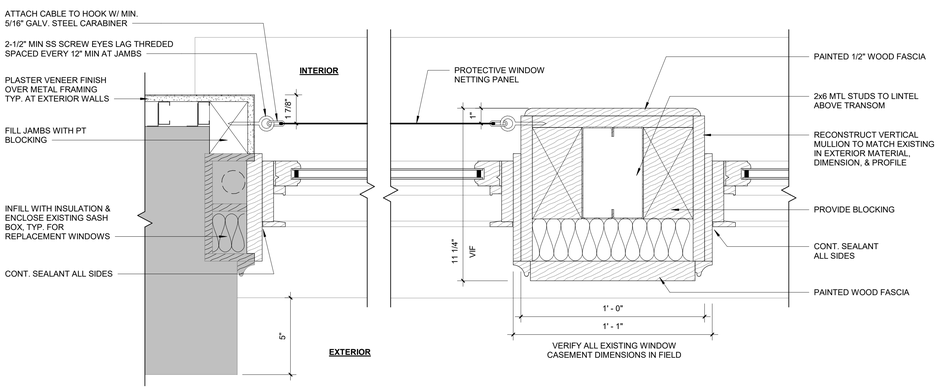






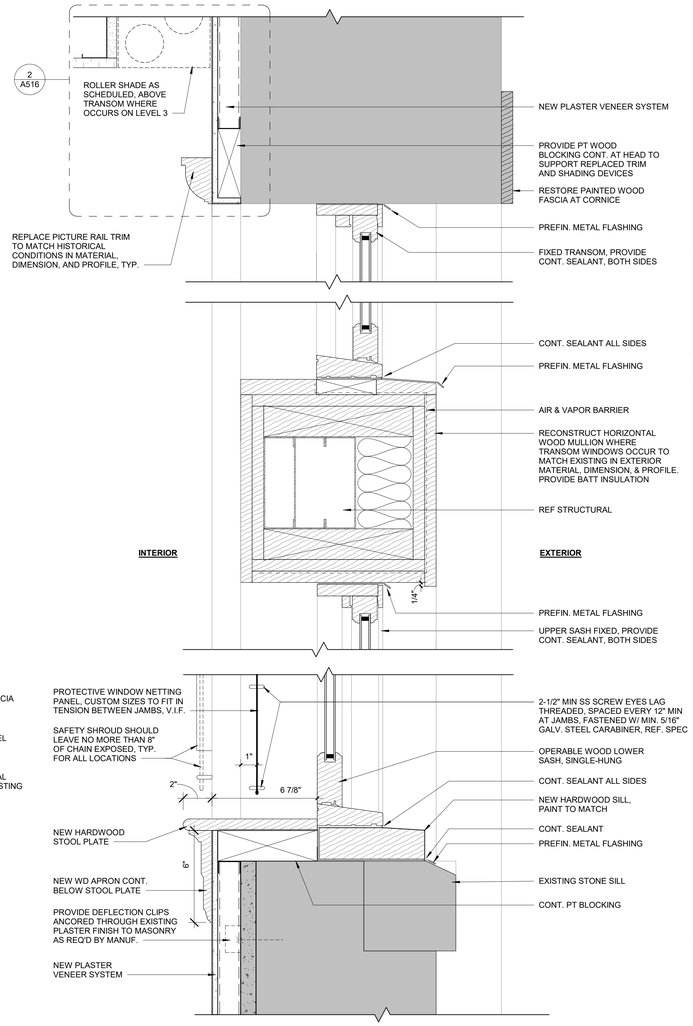
2 A611 HEAD/SILL DETAILS, WINDOW TYPE W17

3" = 1'-0"



1 A611 JAMB DETAILS AT REPLACEMENT DOUBLE HUNG TYPE WINDOWS

3" = 1'-0"



3 A611 TYPICAL REPLACEMENT WINDOW HEAD/SILL DETAILS

3" = 1'-0"

REPLACEMENT WINDOW SCOPE

1. ALL REPLACEMENT WOOD WINDOWS SHALL BE INSTALLED WITHIN EXISTING ROUGH OPENINGS. REFER TO BUILDING ELEVATIONS FOR CONDITION, LOCATION, AND OVERALL SIZES.
2. DIMENSIONS OF ROUGH OPENINGS SHALL BE VERIFIED IN FIELD.
3. NEW EXTERIOR HARDWOOD SILL, INTERIOR STOOL PLATE, APRON, AND ASSOCIATED BLOCKING AT SILL.
4. NEW VERTICAL AND HORIZONTAL WOOD MULLIONS, REF. STRUCTURAL FOR VERTICAL STEEL SUPPORTS.
5. NO STORM WINDOWS REQUIRED AT LEVEL 3 TYPICAL DOUBLE-HUNG REPLACEMENT WINDOWS.

WINDOW RESTORATION SCOPE

NOTE: REFER TO SHEET A610 FOR WINDOW RESTORATION DETAILS

1. ALL EXISTING WOOD WINDOWS SHALL BE RESTORED. REFER TO BUILDING ELEVATIONS FOR CONDITION, LOCATION AND RESTORATION LEVEL OF INDIVIDUAL WINDOWS
2. DIMENSIONS OF WINDOWS FRAMES AND SASHES SHALL BE VERIFIED IN FIELD.
3. THE CONDITION OF EACH EXISTING WINDOW IN THE BUILDING HAS BEEN CATEGORIZED AS ONE OF THE FOLLOWING:
   A. GOOD
   B. FAIR
   C. POOR
   D. VERY POOR
4. THE RESTORATION OF EACH WINDOW INDICATED TO BE 'GOOD' CONDITION, AND ALL WINDOWS OF ALL CONDITIONS SHALL INCLUDE THE FOLLOWING:
   A. REMOVAL OF ALL LOOSE, FLAKING OR OTHERWISE COMPROMISED PAINT COATING USATING AT A MINIMUM, MECHANICAL MEANS OF REMOVAL (SCRAPER BLADE, WIRE BRUSH, ETC) AND CHEMICAL PAINT REMOVAL MEANS IF DEEMED NECESSARY TO ACHIEVE THE REQUIRED COMPLETED PROJECT.
   B. REMOVAL OF ALL LOOSE, FLAKING OR OTHERWISE COMPROMISED GLAZING COMPOUNDS AT EACH GLASS LITE.
   C. REPLACEMENT OF BROKEN GLASS LITES WITH NEW 1/8" TEMPERED GLASS (REFER TO GLAZING SCHEDULE AND SPECIFICATIONS)
   D. REMOVAL OF WINDOW COUNTER-WEIGHTS AND ROPES 2
   E. REMOVAL OF METAL AIR SEAL STRIPS
   F. REMOVEL OF LOCKING MECHANISMS.
   G. REMOVAL OF WINDOW SHADES AND/OR BLINDS 2
   H. APPLICATON OF NEW GLAZING COMPOUND WHERE REQUIRED
   I. PREPARE AND PAINT WITH THREE COAT SYSTEM INCLUDING (1) LAYER OF PRIMER AND (1) LAYERS OF FINISH PAINT
5. THE RESTORATION OF EACH WINDOW INDICATED TO BE 'FAIR' CONDITION SHALL INCLUDE THE FOLLOWING, IN ADDITION TO SCOPE INDICATED FOR ALL WINDOWS:
   A. REMOVAL OF BROKEN GLASS LITES AND REPLACEMENT WITH NEW 1/4" TEMPERED GLASS (REFER TO GLAZING SCHEDULE AND SPECIFICATIONS)
   B. REMOVAL OF DAMAGED WOOD FROM SASH FRAMES, APPLICATION OF WOOD HARDENER AND PATCH/FILL WITH EPOXY WOOD FILLER. SAND SMOOTH AND PREPARE FOR PAINT
6. THE RESTORATION OF EACH WINDOW INDICATED TO BE 'POOR CONDITION' SHALL INCLUDE THE FOLLOWING, IN ADDITION TO SCOPE INDICATED FOR ALL WINDOWS:
   A. REMOVAL AND REPLACEMENT OF GREATER THAN 50% OF GLASS LITES
   B. REMOVAL AND REPLACEMENT OF LESS THAN 50% OF WOOD SASH FRAMES AND MUNTINS WITH NEW FABRICATED WOOD COMPONENTS TO MATCH EXISTING.
7. THE RESTORATION OF EACH WINDOW INDICATED TO BE 'VERY POOR" CONDITION' SHALL INCLUDE THE FOLLOWING, IN ADDITION TO SCOPE INDICATED FOR ALL WINDOWS:
   A. REPLACEMENT OF ENTIRE WINDOW SASHES WITH NEW FABRICATED SASHES, MUNTINS, GLASS LITES, ETC TO MATCH EXISTING.
8. EXTERIOR WOOD WINDOW SILLS: REMOVE LOOSE PAINT AND ROTTED OR DAMAGED WOOD. APPLY WOOD HARDENER AND FILL GAPS, HOLES AND DEPRESSIONS WITH EPOXY WOOD FILLER TO ACHIEVE A SMOOTH AND CONSISTENT SURFACE. SAND AND PREPARE FOR PAINT.
9. INTERIOR WOOD STOOL, APRON AND CASINGS: REMOVE LOOSE PAINT AND CAULK. FILL DEPRESSIONS, CHIPS OR OTHER DAMAGE TO WOOD WITH EPOXY WOOD FILLER, SAND AND PREPARE FOR PAINT. SECURE LOOSE COMPONENTS WITH FINISH SCREWS AND FILL ALL HOLES. CAULK ALL JOINTS BETWEEN TRIM AND CASING COMPONENTS. PAINT WITH THREE COAT SYSTEM INCLUDING (1) LAYER OF PRIMER AND (1) LAYERS OF FINISH PAINT.
10. TO PERFORM RESTORATION WORK, WINDOW SASHES MAY BE REMOVED OR LEFT IN PLACE, AT CONTRACTORS OPTION.
11. REMOVE CASING OVER COUNTERWEIGHT CAVITY, REMOVE COUNTERWEIGHTS AND FILL CAVITY WITH FIBERGLASS INSULATION.
12. SASHES (CASEMENT AND DOUBLE-HUNG) SHALL BE REINSTALLED (IF REMOVED FOR RESTORATION) AND REINSTALLED. HISTORICALLY DOUBLE-HUNG UPPER SASHES TO BE FIXED IN-PLACE SO AS NOT TO BE OPERATIONAL, LOWER SASHES TO BE OPERATIONAL.
13. OPERABLE LOWER SASHES SHOULD BE PROVIDED WITH A SAWCUT KIRF IN THE BOTTOM RAIL
14. PROVIDE ZINC WEATHERSTRIPPING ATOP SILL AS A WINDOW STOP, COORDINATE WITH KIRF IN LOWER SASH

STORM WINDOW SCOPE

1. STORM WINDOW TYPES
   A. ST-1: EXTERIOR FIXED STORM WINDOW INSTALLED AT LEVEL 1 CASEMENT WINDOWS (W01-W02)
   B. ST-2: INTERIOR REMOVABLE, MULTI-PART STORM WINDOW. INSTALLED AT ALL LEVEL 2 AND 3 RESTORED WINDOWS.
   C. ST-3: INTERIOR FIXED STORM WINDOW INSTALLED AT FIXED TRANSOM WINDOWS
2. INSTALL STORM WINDOWS AT ALL EXISTING-TO-REMAIN WINDOWS, TRANSOMS, AND OTHER GLAZED OPENINGS IN EXTERIOR WALLS
3. REFER TO SPECIFICATION SECTION 085169
4. DIMENIONS PROVIDED ARE TYPICAL, CONDITIONS VARY THROUGHOUT BULDING, VERIFY FIELD DIMENSIONS OF ALL EXISTING OPENINGS FOR STORM WINDOW SIZES

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

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STATE PROJECT No: 123-20-00-101

No.	Date	Description
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PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

BID DOCUMENTS
10/3/2023

NEW WINDOWS AND DETAILS

A611

PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/31/2023 12:38:02 AM

DEMOLITION LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING DOOR AND FRAME/CASING TO REMAIN
- ITEM / CONSTRUCTION TO BE REMOVED, SALVAGED OR REINSTALLED
- 90 — DEMOLISH DOOR AND FRAME
- 45 — DEMOLISH DOOR LEAF ONLY - EXISTING FRAME/CASING TO REMAIN
- EXTENT OF SLAB/FLOOR REMOVAL REFER TO PLUMBING DRAWINGS FOR EXTENT OR SLAB CUTS AND PATCHING REQURED FOR UNDERSLAB UTILITY INSTALLATION

GENERAL DEMO NOTES

1. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE REMOVED U.N.O., REMOVAL OF PARTITIONS INCLUDES REMOVAL OF ALL ITEMS FIXED TO PARTITIONS (DOORS, CASEWORK, ELECTRICAL, PLUMBING, ETC). EXTENT OF SELECTIVE DEMOLITION SHALL BE AS REQUIRED FOR INSTALLATION OF NEW WORK. EXISTING WORK TO REMAIN, IF DAMAGED BY DEMOLITION OPERATIONS, SHALL BE REPAIRED TO MATCH ORIGINAL SURFACE CONDITION OR AS INDICATED IN THE DRAWINGS.
2. PRIOR TO REMOVAL OR MODIFICATION OF WALLS OR OTHER LOAD BEARING ELEMENTS, THE ACTUAL SIZE AND LOCATION OF THE STRUCTURAL COMPONENTS AND LOAD BEARING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR BY MEANS OF SELECTIVE DEMOLITION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY UNUSUAL OR HAZARDOUS CONDITION INCLUDING BUT NOT LIMITED TO CRACKS, ABSENCE OF BRACING, OR LOOSE ELEMENTS AND COMPONENTS.
3. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING REQUIRED TO SAFELY SUPPORT ALL LOADS, INCLUDING ROOF LOADS, AND TO MAINTAIN EXISTING FRAMING TO REMAIN IN ITS EXISTING LOCATION WHILE MAKING MODIFICATIONS REQUIRED UNDER THIS CONTRACT.
4. REFERENCE CIVIL DRAWINGS FOR REMOVAL OF SITE ELEMENTS INCLUDING, BUT NOT LIMITED TO WALKS, ROADS, PAVED AREAS, UTILITIES, GRADING AND LANDSCAPING.
5. THE BULK OF ALL MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, FIXTURES, WIRING, PIPING, ETC. HAVE BEEN REMOVED FROM THE BUILDING. REMAINING EQUIPMENT TO BE DEMOLISHED IS INDICATED ON DEMOLITION PLANS. EXISTING ABANDONED PIPING AND CONDUIT SHALL BE CAPPED IN CONCEALED LOCATIONS AFTER BEING SECURED IN PLACE.
6. TYPICAL WALL AND/OR PARTITION DEMOLITION, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
   A. WALLS/PARTITIONS: REMOVE ENTIRELY WHERE SHOWN DASHED. WHERE WALLS ARE INDICATED TO REMAIN, REMOVE ALL ITEMS MOUNTED TO WALL. AT INTERSECTIONS OF ONE OR MORE WALLS TO BE REMOVED OR WHERE NEW DOOR AND WINDOW OPENINGS ARE CUT, REPAIR REMAINING EXPOSED WALL SURFACES WITH SAME MATERIAL TO MATCH ADJACENT SURFACE CONDITION. WHERE PORTIONS OF EXISTING MASONRY WALLS ARE TO BE REMOVED OR ADDED, REPAIR WALLS BY TOOTHING IN NEW MASONRY MATCHING DIMENSIONS OF EXISTING.
   B. WHERE PARTIONS EXTEND BELOW FLOOR, REMOVE PARTITIONS TO 8" MINIMUM BELOW FLOOR AND REPAIR EXISTING CONCRETE SLAB OR PATCH SUBFLOOR WITH NEW SUBFLOOR MATERIAL
7. AT EXISTING TO REMAIN WALLS AND/OR PARTITIONS:
   A. REMOVE LOOSE PLASTER FROM ALL WALL SURFACES UNTIL ONLY SOUND MATERIAL SUITABLE FOR APPLICATION OF NEW PLASTER FINISH COATS REMAIN.
   B. REMOVE PLASTER THAT IS APPLIED OVER METAL LATH. REMOVE METAL LATH AND FASTENERS IN ITS ENTIRETY
   C. REMOVE LOOSE, FLAKING AND UNSOUND PAINT AND OTHER COATINGS FROM WALL SURFACES
8. WOOD TRIMWORK AND CASING (DOOR AND WINDOW CASINGS, CHAIR RAIL, PICTURE RAILS, CHALK TRAYS AND OTHER RUNNING TRIM THROUGHOUT):
   A. REMOVE ANY TRIM PIECES THAT ARE LOOSE OR NOT OTHERWISE FULLY SECURE TO SUBSTRATES. SALVAGE FOR REUSE.
   B. REMOVE ALL LOOSE. FLAKING, OR OTHERWISE COMPROMIZED PAINT/COATINGS FROM ALL WOOD TRIM SURFACES TO PREPARE FOR REPAINTING
9. DOORS:
   A. WHERE BOTH DOORS AND FRAMES ARE INDICATED OR SCHEDULED TO BE DEMOLISHED, REMOVE DOORS, FRAMES AND RELATED HARDWARE.
   B. WHERE DOOR LEAF ONLY IS INDICATED OR SCHEDULED TO BE DEMOLISHED, REMOVE DOORS AND RELATED HARDWARE.
10. GRIND SMOOTH AND PATCH EXISTING FLOOR WITH FLOOR LEVELING COMPOUND AND AS REQUIRED IN ALL AREAS WHERE ADJACENT SLABS ARE NOT LEVEL AFTER REMOVAL OF WALLS. PREPARE FOR INSTALLATION OF NEW FINISHES.
11. COORDINATE REMOVAL OF SLAB ON GRADE AS REQUIRED FOR INSTALLATION OF NEW SANITARY AND STORM PIPING AND CONNECTIONS TO EXISTING IN OR BELOW SLAB WORK. REFERENCE PLUMBING DRAWINGS FOR UNDER-SLAB PIPE LOCATIONS AND ROUTING. REFERENCE STRUCTURAL DRAWINGS FOR SLAB REPAIR DETAILS.
12. WHERE RECESSED ELECTRICAL BOXES FOR RECEPTACLES, SWITCHES AND/OR OTHER DEVICES ARE ABANDONDED IN-PLACE, REMOVE BOX TO EXTENTS NECESSARY TO PATCH WALL MATERIAL TO MATCH ADJACENT FINISHED SURFACES BY PATCHING PLASTER, DRYWALL OTHER MATERIAL MATCHING EXISTING CONSTRUCTION AND MATERIAL.
13. DIMENSIONS SHOWN IN DEMOLITION DRAWINGS ARE APPROXIMATE TO FINISHED FACE OF NEW OPENING U.N.O. CONTRACTOR TO COORDINATE EXTENT OF DEMO NECESSARY WITH NEW WORK.
14. ELEVATOR DEMOLITION:
   A. ALL COMPONENTS OF ELEVATOR, INCLUDING BUT NOT LIMITED TO CAB, CABLES, RAILS, JACK/SHAFT, HYDRAULIC LINES AND EQUIPMENT, ELECTRONIC CONTROLS, DOORS, DOORFRAMES, DOOR SILLS, ETC. SHALL BE DEMOLISHED.
   B. ELEVATOR COMPONENENTS SHALL BE REMOVED FROM THE HOISTWAY THROUGH THE ELEVATOR DOOR OPENINGS. THE HOISTWAY SHAFT WALLS AND HOISTWAY SHAFT CAP SHALL NOT BE DAMAGED, DEMOLISHED, OR OTHERWISE MODIFIED.
   C. AFTER REMOVAL OF HYDRAULIC JACK PISTON, FILL REMAINING HOLE IN SLAB WITH CONCRETE AND STRIKE FLUSH WITH PIT SLAB.
   D. DEMOLISH PORTION OF LEVEL 3 HOISTWAY WALL AS REQUIRED FOR INSTALLATION OF NEW ELEVATOR CONTROLS (JAMB-MOUNTED MACHINE-ROOM-LESS ELEVATOR CONTROLS) COORDINATE SCOPE AND EXTENTS WITH ELEVATOR INSTALLER.
   E. FILL REMAINING UN-USED HOLES, PENETRATIONS, GAPS, ETC. IN HOISTWAY WALLS WITH FIRESTPOPING WHERE NOT REUSED FOR INSTALLATION OF NEW ELEVATOR AND ASSOCIATED ELECTRICAL COMPONENTS.
15. REFER TO CIVIL PLANS FOR DEMOLITION OF SITE ELEMENTS
16. REMOVE ALL EXISTING DEVICES, NAILS, FASTENERS, ANCHORS, HANGERS OR OTHER ITEMS (EXCLUSIVE OF WOOD TRIM AND OTHER HISTORIC BUILDING ELEMENTS) SECURED TO WALLS THAT ARE NOT INDICATED TO REMAIN. PATCH HOLES.
17. REMOVE PLYWOOD PANELS SCREWED DOWN TO EXISTING SUBFLOOR THROUGHOUT LEVEL 3. PANELS WERE INSTALLED BY ROOF CONTRACTOR AND LEFT IN PLACE TO PROVIDE SAFE WALKING ENVIRONMENT UNTIL CONSTRUCTION START.
18. EXISTING CHILLER LOCATED AT NORTH-EAST CORNER OF SITE WITHIN FENCE ENCLOSURE. CONTRACTOR SHALL DISCONNECT CHILLER FROM ELECTRICAL AND PIPING SYSTEMS AND TRANSPORT TO 2325 MAURY STREET, RICHMOND, VA 23224.
19. CLEANING. AFTER COMPLETION OF DEMOLITION, REMEDIATION, PAINT REMOVAL, PLASTER REMOVAL AND OTHER ACTIVITIES OCCURING PRIOR TO INSTALLATION OF NEW MATERIALS, COMPLETE REMOVAL OF DIRT, DEBRIS, CONSTRUCTION MATERIALS, DAMAGED AND DETERIORATED BUILDING MATERIALS, PAINT COATINGS, PLASTER DEBRIC, MASONRY DEBRIS, SAWDUST, GREASE, ETC. SHALL BE CARRIED OUT BY MEANS REQUIRED TO PROVIDE CLEAN INTERIOR SPACE, FREE OF DUST, PARTICULATES, CONTAMINANTS AND OTHER MATERIALS THAT MAY INHIBIT PROPER INSTALLATION OF NEW WORK.

KEYNOTES

02.05	REMOVE EXISTING RUBBER STAIR TREADS AT STAIRS AND LANDINGS, TYP
02.15	REMOVE FILM FROM GLAZING WOOD STOREFRONT FRAMING.
02.18	DEMOLISH QUARRY TILE FLOOR FINISH. PREPARE SUBSTRATE AS REQUIRED FOR NEW FINISH
02.20	DEMOLISH METAL PIPE GUARD RAIL AND/OR HANDRAIL. CORE DRILL TO REMOVE PORTION OF PIPE ANCHORED IN CURB AND REMOVE TO ALLOW INSTALLATION OF NEW RAIL IN EXISTING LOCATIONS.
02.21	REMOVE SLIDING DOOR AND HARDWARE. SALVAGE FOR REUSE.
02.23	DEMOLISH PLASTER FROM EXISTING MASONRY WALL THIS AREA. REFER TO PLASTER REPAIR SCOPE FOR EXTENTS AND REQUIREMENTS.
02.24	HATCH INDICATES APPROXIMATE EXTENT OF SLAB DEMOLITION FOR DEPRESSED SLAB AT NEW WALK-IN COOLERS - COORDINATE DIMENSIONS WITH SIZE AND REQUIREMENTS OF WALK-IN COOLER.
02.25	SALVAGE DOOR FOR RELOCATION OR DISPLAY USE
02.26	DEMOLISH WOOD DOOR TRIM AND CASING AT OPENING.
02.27	REMOVE WOOD PANEL AT WALL
02.28	HATCH INDICATES APPROXIMATE EXTENTS OF SLAB DEMOLITION TO CUT, CAP AND ABANDON SANITARY PIPING BELOW SLAB. PATCH AND REPAIR SLAB PER STRUCTURAL REPAIR DETAILS AND PREPARE FOR NEW FINISHES.
02.29	DEMOLISH EXISTING CONCRETE EQUIPMENT PAD. PATCH AND REPAIR SLAB AS REQUIRED FOR INSTALLATION OF NEW FINISHES.
02.30	DEMOLISH METAL GATE, FRAME, HARDWARE, AND ANCHORS
02.34	DEMOLISH ELEVATOR AND ALL COMPONENTS. REFER TO GENERAL NOTES.
02.36	DEMOLISH EXISTING ELEVATED SLAB OVER BELOW-SLAB PASSAGEWAY
02.37	REMOVE EXISTING CERAMIC TILE AND SALVAGE FOR PATCHING IN KITCHEN.
02.42	DEMOLISH ALL "ELEVATED ELEMENTS" (CONCRETE AND MASONRY PADS) WITHIN RECESSED SLAB AREA
02.47	DEMOLISH SPRINKLER RISER AND PIPING, AND ALL ASSOCIATED WIRING, ELECTRICAL PANELS, AND OTHER EQUIPMENT
02.48	EXISTING VERTICAL CONDUIT TRENCH TO BE REUSED. CLEAR AWAY DEBRIS AND CUT WHERE NECESSARY TO FIT NEW CONDUIT AND BOXES. SEE DETAILS A512.
02.51	HATCH INDICATES APPROXIMATE EXTENTS OF SLAB DEMOLITION FOR NEW BELOW-SLAB GREASE INTERCEPTOR. COORDINATE WITH PLUMBING DRAWINGS.
02.53	DEMOLISH CONCRETE CAP ABOVE EXISTING CMU WALLS.
02.61	DEMOLISH EXISTING FINISHES, NOSINGS, COATINGS, ETC AT STAIR TREADS. DEMOLISH EXISTING HANDRAILS AND PATCH WALL.
02.65	REMOVE TOP PART OF EXISTING BRICK SHAFT WALL AFTER CONSTRUCTION OF CMU WALL BESIDE. SEE SHEET A515 FOR SHAFT DETAILS
02.68	DEMOLISH ELEVATOR DOOR ASSEMBLY AND RELATED COMPONENTS TO PREPARE FOR NEW ELEVATOR DOOR INSTALLATION.
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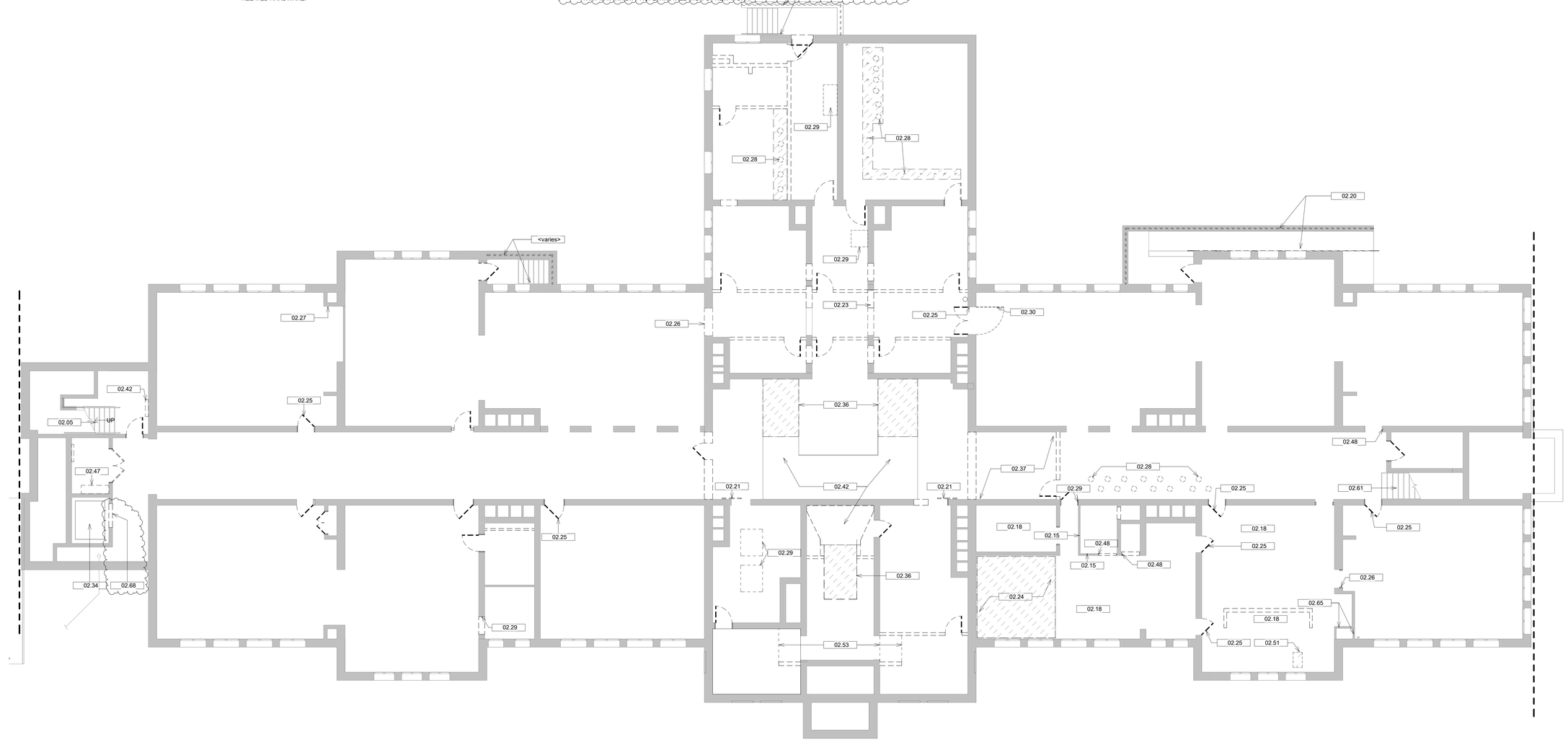

1 AD101 DEMOLITION PLAN - LEVEL 1

1/8" = 1'-0"

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1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220

v 804.788.4774

QUINNEVANS.COM

RPS RICHMOND PUBLIC SCHOOLS

WILLIAM FOX ELEMENTARY SCHOOL RECONSTRUCTION

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RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

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PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

BID DOCUMENTS
10/3/2023

DEMOLITION PLAN - LEVEL 1

AD101

PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/31/2023 12:28:03 AM

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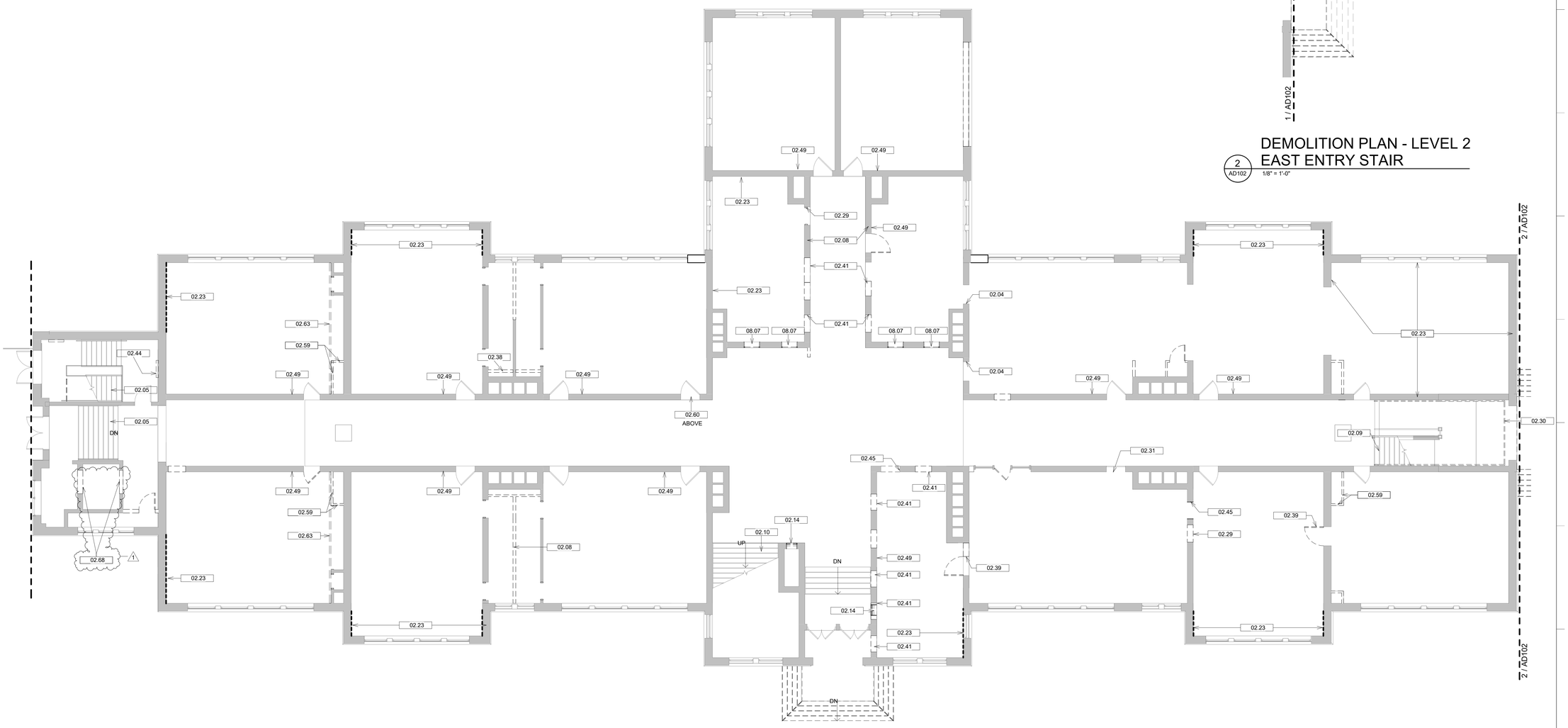
1. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE REMOVED U.N.O., REMOVAL OF PARTITIONS INCLUDES REMOVAL OF ALL ITEMS FIXED TO PARTITIONS (DOORS, CASEWORK, ELECTRICAL, PLUMBING, ETC). EXTENT OF SELECTIVE DEMOLITION SHALL BE AS REQUIRED FOR INSTALLATION OF NEW WORK. EXISTING WORK TO REMAIN, IF DAMAGED BY DEMOLITION OPERATIONS, SHALL BE REPAIRED TO MATCH ORIGINAL SURFACE CONDITION OR AS INDICATED IN THE DRAWINGS.
2. PRIOR TO REMOVAL OR MODIFICATION OF WALLS OR OTHER LOAD BEARING ELEMENTS, THE ACTUAL SIZE AND LOCATION OF THE STRUCTURAL COMPONENTS AND LOAD BEARING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR BY MEANS OF SELECTIVE DEMOLITION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY UNUSUAL OR HAZARDOUS CONDITION INCLUDING BUT NOT LIMITED TO CRACKS, ABSENCE OF BRACING, OR LOOSE ELEMENTS AND COMPONENTS.
3. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING REQUIRED TO SAFELY SUPPORT ALL LOADS, INCLUDING ROOF LOADS, AND TO MAINTAIN EXISTING FRAMING TO REMAIN IN ITS EXISTING LOCATION WHILE MAKING MODIFICATIONS REQUIRED UNDER THIS CONTRACT.
4. REFERENCE CIVIL DRAWINGS FOR REMOVAL OF SITE ELEMENTS INCLUDING, BUT NOT LIMITED TO WALKS, ROADS, PAVED AREAS, UTILITIES, GRADING AND LANDSCAPING.
5. THE BULK OF ALL MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, FIXTURES, WIRING, PIPING, ETC. HAVE BEEN REMOVED FROM THE BUILDING. REMAINING EQUIPMENT TO BE DEMOLISHED IS INDICATED ON DEMOLITION PLANS. EXISTING ABANDONED PIPING AND CONDUIT SHALL BE CAPPED IN CONCEALED LOCATIONS AFTER BEING SECURED IN PLACE.
6. TYPICAL WALL AND/OR PARTITION DEMOLITION, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
   A. WALLS/PARTITIONS: REMOVE ENTIRELY WHERE SHOWN DASHED. WHERE WALLS ARE INDICATED TO REMAIN, REMOVE ALL ITEMS MOUNTED TO WALL. AT INTERSECTIONS OF ONE OR MORE WALLS TO BE REMOVED OR WHERE NEW DOOR AND WINDOW OPENINGS ARE CUT, REPAIR REMAINING EXPOSED WALL SURFACES WITH SAME MATERIAL TO MATCH ADJACENT SURFACE CONDITION. WHERE PORTIONS OF EXISTING MASONRY WALLS ARE TO BE REMOVED OR ADDED, REPAIR WALLS BY TOOTHING IN NEW MASONRY MATCHING DIMENSIONS OF EXISTING.
   B. WHERE PARTIONS EXTEND BELOW FLOOR, REMOVE PARTITIONS TO 8" MINIMUM BELOW FLOOR AND REPAIR EXISTING CONCRETE SLAB OR PATCH SUBFLOOR WITH NEW SUBFLOOR MATERIAL
7. AT EXISTING TO REMAIN WALLS AND/OR PARTITIONS:
   A. REMOVE LOOSE PLASTER FROM ALL WALL SURFACES UNTIL ONLY SOUND MATERIAL SUITABLE FOR APPLICATION OF NEW PLASTER FINISH COATS REMAIN.
   B. REMOVE PLASTER THAT IS APPLIED OVER METAL LATH. REMOVE METAL LATH AND FASTENERS IN ITS ENTIRETY
   C. REMOVE LOOSE, FLAKING AND UNSOUND PAINT AND OTHER COATINGS FROM WALL SURFACES
8. WOOD TRIMWORK AND CASING (DOOR AND WINDOW CASINGS, CHAIR RAIL, PICTURE RAILS, CHALK TRAYS AND OTHER RUNNING TRIM THROUGHOUT):
   A. REMOVE ANY TRIM PIECES THAT ARE LOOSE OR NOT OTHERWISE FULLY SECURE TO SUBSTRATES. SALVAGE FOR REUSE.
   B. REMOVE ALL LOOSE. FLAKING, OR OTHERWISE COMPROMIZED PAINT/COATINGS FROM ALL WOOD TRIM SURFACES TO PREPARE FOR REPAINTING
9. DOORS:
   A. WHERE BOTH DOORS AND FRAMES ARE INDICATED OR SCHEDULED TO BE DEMOLISHED, REMOVE DOORS, FRAMES AND RELATED HARDWARE.
   B. WHERE DOOR LEAF ONLY IS INDICATED OR SCHEDULED TO BE DEMOLISHED, REMOVE DOORS AND RELATED HARDWARE.
10. GRIND SMOOTH AND PATCH EXISTING FLOOR WITH FLOOR LEVELING COMPOUND AND AS REQUIRED IN ALL AREAS WHERE ADJACENT SLABS ARE NOT LEVEL AFTER REMOVAL OF WALLS. PREPARE FOR INSTALLATION OF NEW FINISHES.
11. COORDINATE REMOVAL OF SLAB ON GRADE AS REQUIRED FOR INSTALLATION OF NEW SANITARY AND STORM PIPING AND CONNECTIONS TO EXISTING IN OR BELOW SLAB WORK. REFERENCE PLUMBING DRAWINGS FOR UNDER-SLAB PIPE LOCATIONS AND ROUTING. REFERENCE STRUCTURAL DRAWINGS FOR SLAB REPAIR DETAILS.
12. WHERE RECESSED ELECTRICAL BOXES FOR RECEPTACLES, SWITCHES AND/OR OTHER DEVICES ARE ABANDONDED IN-PLACE, REMOVE BOX TO EXTENTS NECESSARY TO PATCH WALL MATERIAL TO MATCH ADJACENT FINISHED SURFACES BY PATCHING PLASTER, DRYWALL OTHER MATERIAL MATCHING EXISTING CONSTRUCTION AND MATERIAL.
13. DIMENSIONS SHOWN IN DEMOLITION DRAWINGS ARE APPROXIMATE TO FINISHED FACE OF NEW OPENING U.N.O. CONTRACTOR TO COORDINATE EXTENT OF DEMO NECESSARY WITH NEW WORK.
14. ELEVATOR DEMOLITION:
   A. ALL COMPONENTS OF ELEVATOR, INCLUDING BUT NOT LIMITED TO CAB, CABLES, RAILS, JACK/SHAFT, HYDRAULIC LINES AND EQUIPMENT, ELECTRONIC CONTROLS, DOORS, DOORFRAMES, DOOR SILLS, ETC. SHALL BE DEMOLISHED.
   B. ELEVATOR COMPONENENTS SHALL BE REMOVED FROM THE HOISTWAY THROUGH THE ELEVATOR DOOR OPENINGS. THE HOISTWAY SHAFT WALLS AND HOISTWAY SHAFT CAP SHALL NOT BE DAMAGED, DEMOLISHED, OR OTHERWISE MODIFIED.
   C. AFTER REMOVAL OF HYDRAULIC JACK PISTON, FILL REMAINING HOLE IN SLAB WITH CONCRETE AND STRIKE FLUSH WITH PIT SLAB.
   D. DEMOLISH PORTION OF LEVEL 3 HOISTWAY WALL AS REQUIRED FOR INSTALLATION OF NEW ELEVATOR CONTROLS (JAMB-MOUNTED MACHINE-ROOM-LESS ELEVATOR CONTROLS) COORDINATE SCOPE AND EXTENTS WITH ELEVATOR INSTALLER.
   E. FILL REMAINING UN-USED HOLES, PENETRATIONS, GAPS, ETC. IN HOISTWAY WALLS WITH FIRESTPOPING WHERE NOT REUSED FOR INSTALLATION OF NEW ELEVATOR AND ASSOCIATED ELECTRICAL COMPONENTS.
15. REFER TO CIVIL PLANS FOR DEMOLITION OF SITE ELEMENTS
16. REMOVE ALL EXISTING DEVICES, NAILS, FASTENERS, ANCHORS, HANGERS OR OTHER ITEMS (EXCLUSIVE OF WOOD TRIM AND OTHER HISTORIC BUILDING ELEMENTS) SECURED TO WALLS THAT ARE NOT INDICATED TO REMAIN. PATCH HOLES.
17. REMOVE PLYWOOD PANELS SCREWED DOWN TO EXISTING SUBFLOOR THROUGHOUT LEVEL 3. PANELS WERE INSTALLED BY ROOF CONTRACTOR AND LEFT IN PLACE TO PROVIDE SAFE WALKING ENVIRONMENT UNTIL CONSTRUCTION START.
18. EXISTING CHILLER LOCATED AT NORTH-EAST CORNER OF SITE WITHIN FENCE ENCLOSURE. CONTRACTOR SHALL DISCONNECT CHILLER FROM ELECTRICAL AND PIPING SYSTEMS AND TRANSPORT TO 2325 MAURY STREET, RICHMOND, VA 23224.
19. CLEANING. AFTER COMPLETION OF DEMOLITION, REMEDIATION, PAINT REMOVAL, PLASTER REMOVAL AND OTHER ACTIVITIES OCCURING PRIOR TO INSTALLATION OF NEW MATERIALS, COMPLETE REMOVAL OF DIRT, DEBRIS, CONSTRUCTION MATERIALS, DAMAGED AND DETERIORATED BUILDING MATERIALS, PAINT COATINGS, PLASTER DEBRIC, MASONRY DEBRIS, SAWDUST, GREASE, ETC. SHALL BE CARRIED OUT BY MEANS REQUIRED TO PROVIDE CLEAN INTERIOR SPACE, FREE OF DUST, PARTICULATES, CONTAMINANTS AND OTHER MATERIALS THAT MAY INHIBIT PROPER INSTALLATION OF NEW WORK.

KEYNOTES

02.04	EXISTING DOOR FRAME TO REMAIN - SECURE IN PLACE
02.05	REMOVE EXISTING RUBBER STAIR TREADS AT STAIRS AND LANDINGS, TYP
02.08	REMOVE PART OF EXISTING MASONRY BEARING WALL - COORDINATE WITH STRUCTURAL
02.09	DEMOLISH SLATE TREADS, TYP
02.10	REMOVE COATING FROM EXISTING SLATE STAIR TREADS
02.14	DEMOLISH EXISTING WALL LOUVER. PATCH AND REPAIR PARTITION AS NEEDED.
02.23	DEMOLISH PLASTER FROM EXISTING MASONRY WALL THIS AREA. REFER TO PLASTER REPAIR SCOPE FOR EXTENTS AND REQUIREMENTS.
02.29	DEMOLISH EXISTING CONCRETE EQUIPMENT PAD. PATCH AND REPAIR SLAB AS REQUIRED FOR INSTALLATION OF NEW FINISHES.
02.30	DEMOLISH METAL GATE, FRAME, HARDWARE, AND ANCHORS
02.31	EXISTING DOOR TO REMAIN AND BE FIXED IN-PLACE
02.38	DEMOLISH EXISTING PYROBLOCK SHAFT AT LEVEL 3 AND AT TOP PART OF LEVEL 2 (11'-4" FROM FINISH FLOOR). COORDINATE EXTENTS OF DEMOLITION WITH INSTRUCTION OF NEW WORK. SEE SHAFT SECTIONS.
02.39	REMOVE DOOR AND FRAME -SALVAGE FOR RELOCATION OR DISPLAY USE
02.41	NEW MASONRY OPENING, COORDINATE LOCATION AND DIMENSIONS WITH NEW WORK.
02.44	DEMOLISH EXISTING WALL-MOUNTED HEATER. PATCH PARTITION AS NECESSARY
02.45	EXISTING FRAME TO REMAIN
02.49	DEMOLISH EXISTING WIRING RACEWAYS EMBEDDED IN EXISTING PLASTER, WHERE NEW WIRING RACEWAY IS TO BE INSTALLED. COORDINATE WITH NEW WORK PLANS. TYPICAL AT CLASSROOM DOORS. ALL LOCATIONS MAY NOT BE INDICATED ON PLANS.
02.59	DEMOLISH EXISTING PYROBLOCK CHASEWALL AND FINISHES IN ITS ENTIRETY.
02.60	CUT PORTION OF MASONRY TO ALLOW FOR ROUTING OF OVERHEAD DATA CABLES, COORDINATE LOCATIONS WITH RCP AND DETAILS A513. ENSURE NEW OPENINGS ARE MIN. 12" FROM ANY EXISTING JOISTS, BEAMS, OR OTHER STRUCTURE
02.63	EXISTING SLIDING DOOR AND TRACK SYSTEM: REMOVE DOOR (WHERE EXISTING) AND SALVAGE FOR RESTORATION. DEMOLISH ENTIRE DOOR TRACK. STEEL SUPPORT STRUCTURE (STEEL CHANNEL AND PLATE) SHALL REMAIN IN PLACE AND SUPPORTED AS REQUIRED DURING DEMOLITION OF EXISTING ADJACENT SHAFTS AND CONSTRUCTION OF NEW WALLS. EXISTING WOOD TRIM SHALL BE SUPPORTED IN PLACE OR REMOVED AND REINSTALLED, AS REQUIRED TO CARRY OF NEW WORK
02.68	DEMOLISH ELEVATOR DOOR ASSEMBLY AND RELATED COMPONENTS TO PREPARE FOR NEW ELEVATOR DOOR INSTALLATION.
08.07	REMOVE EXISTING INTERIOR WINDOW GLAZING, FRAME, AND ALL TRIM (BOTH SIDES). PATCH HOLE TO BE FLUSH WITH ADJACENT SURFACES.



1 / AD102

DEMOLLISH CONCRETE STAIRS, LANDING, & (5) METAL RAILINGS

1 / AD102

2 AD102 DEMOLITION PLAN - LEVEL 2 EAST ENTRY STAIR

1/8" = 1'-0"

1 AD102 DEMOLITION PLAN - LEVEL 2

1/8" = 1'-0"

PATH & FILENAME: Autodesk Docs://William Fox Elementary Rebuild/ARCH_WilliamFoxES_R22.rvt
PLOTTING DATE & TIME: 10/31/2023 12:36:07 AM

QUINN EVANS

1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220

v 804.788.4774

QUINNEVANS.COM

RPS RICHMOND PUBLIC SCHOOLS

WILLIAM FOX ELEMENTARY SCHOOL RECONSTRUCTION

RICHMOND PUBLIC SCHOOLS

2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description
1	10/18/2023	ADDENDUM 001

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

BID DOCUMENTS
10/3/2023

DEMOLITION PLAN - LEVEL 2

AD102

DEMOLITION LEGEND

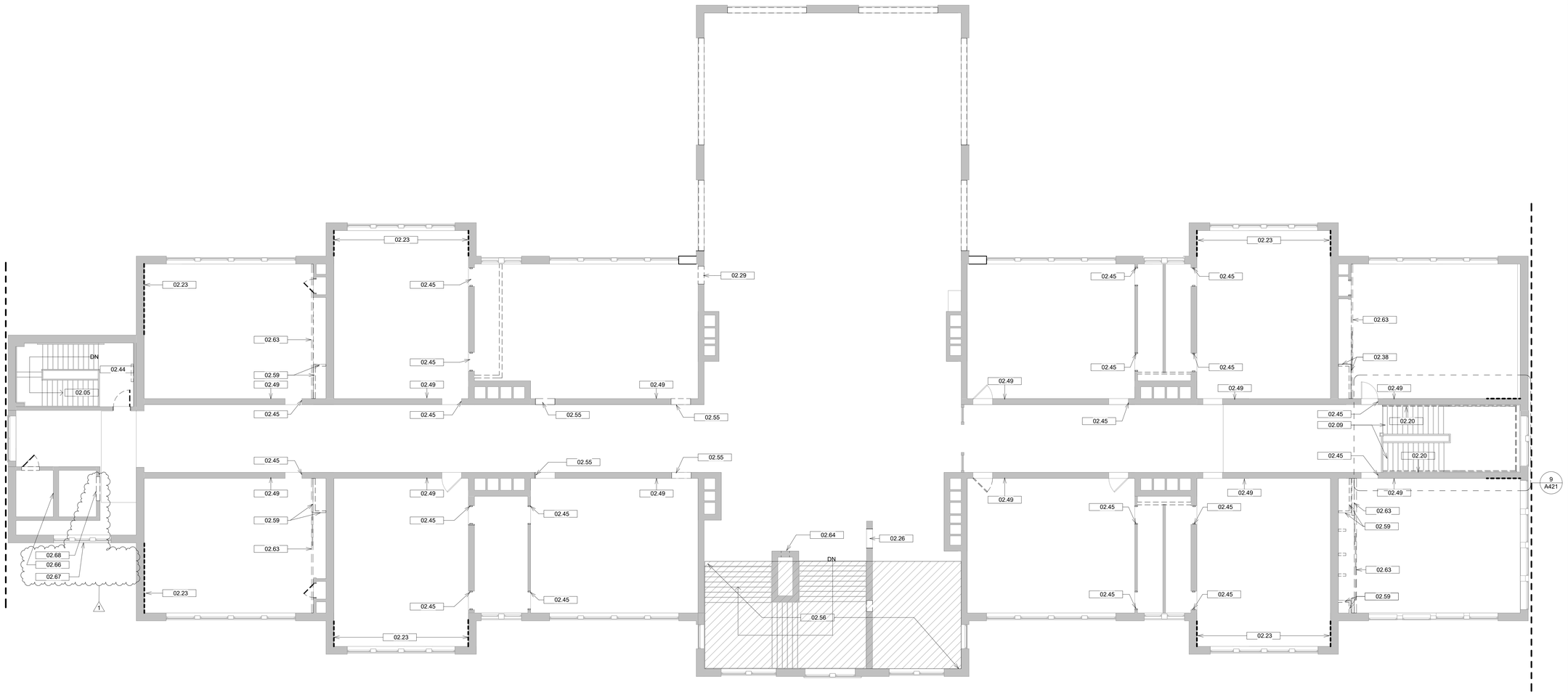
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING DOOR AND FRAME/CASING TO REMAIN
- ITEM / CONSTRUCTION TO BE REMOVED, SALVAGED OR REINSTALLED
- 90 — DEMOLISH DOOR AND FRAME
- 45 — DEMOLISH DOOR LEAF ONLY - EXISTING FRAME/CASING TO REMAIN
- EXTENT OF SLAB/FLOOR REMOVAL REFER TO PLUMBING DRAWINGS FOR EXTENT OR SLAB CUTS AND PATCHING REQURED FOR UNDERSLAB UTILITY INSTALLATION

GENERAL DEMO NOTES

1. DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE REMOVED U.N.O., REMOVAL OF PARTITIONS INCLUDES REMOVAL OF ALL ITEMS FIXED TO PARTITIONS (DOORS, CASEWORK, ELECTRICAL, PLUMBING, ETC). EXTENT OF SELECTIVE DEMOLITION SHALL BE AS REQUIRED FOR INSTALLATION OF NEW WORK. EXISTING WORK TO REMAIN, IF DAMAGED BY DEMOLITION OPERATIONS, SHALL BE REPAIRED TO MATCH ORIGINAL SURFACE CONDITION OR AS INDICATED IN THE DRAWINGS.
2. PRIOR TO REMOVAL OR MODIFICATION OF WALLS OR OTHER LOAD BEARING ELEMENTS, THE ACTUAL SIZE AND LOCATION OF THE STRUCTURAL COMPONENTS AND LOAD BEARING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR BY MEANS OF SELECTIVE DEMOLITION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY UNUSUAL OR HAZARDOUS CONDITION INCLUDING BUT NOT LIMITED TO CRACKS, ABSENCE OF BRACING, OR LOOSE ELEMENTS AND COMPONENTS.
3. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING REQUIRED TO SAFELY SUPPORT ALL LOADS, INCLUDING ROOF LOADS, AND TO MAINTAIN EXISTING FRAMING TO REMAIN IN ITS EXISTING LOCATION WHILE MAKING MODIFICATIONS REQUIRED UNDER THIS CONTRACT.
4. REFERENCE CIVIL DRAWINGS FOR REMOVAL OF SITE ELEMENTS INCLUDING, BUT NOT LIMITED TO WALKS, ROADS, PAVED AREAS, UTILITIES, GRADING AND LANDSCAPING.
5. THE BULK OF ALL MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, FIXTURES, WIRING, PIPING, ETC. HAVE BEEN REMOVED FROM THE BUILDING. REMAINING EQUIPMENT TO BE DEMOLISHED IS INDICATED ON DEMOLITION PLANS. EXISTING ABANDONED PIPING AND CONDUIT SHALL BE CAPPED IN CONCEALED LOCATIONS AFTER BEING SECURED IN PLACE.
6. TYPICAL WALL AND/OR PARTITION DEMOLITION, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
   - A. WALLS/PARTITIONS: REMOVE ENTIRELY WHERE SHOWN DASHED. WHERE WALLS ARE INDICATED TO REMAIN, REMOVE ALL ITEMS MOUNTED TO WALL. AT INTERSECTIONS OF ONE OR MORE WALLS TO BE REMOVED OR WHERE NEW DOOR AND WINDOW OPENINGS ARE CUT, REPAIR REMAINING EXPOSED WALL SURFACES WITH SAME MATERIAL TO MATCH ADJACENT SURFACE CONDITION. WHERE PORTIONS OF EXISTING MASONRY WALLS ARE TO BE REMOVED OR ADDED, REPAIR WALLS BY TOOTHING IN NEW MASONRY MATCHING DIMENSIONS OF EXISTING.
   - B. WHERE PARTIONS EXTEND BELOW FLOOR, REMOVE PARTITIONS TO 8" MINIMUM BELOW FLOOR AND REPAIR EXISTING CONCRETE SLAB OR PATCH SUBFLOOR WITH NEW SUBFLOOR MATERIAL
7. AT EXISTING TO REMAIN WALLS AND/OR PARTITIONS:
   - A. REMOVE LOOSE PLASTER FROM ALL WALL SURFACES UNTIL ONLY SOUND MATERIAL SUITABLE FOR APPLICATION OF NEW PLASTER FINISH COATS REMAIN.
   - B. REMOVE PLASTER THAT IS APPLIED OVER METAL LATH. REMOVE METAL LATH AND FASTENERS IN ITS ENTIRETY
   - C. REMOVE LOOSE, FLAKING AND UNSOUND PAINT AND OTHER COATINGS FROM WALL SURFACES
8. WOOD TRIMWORK AND CASING (DOOR AND WINDOW CASINGS, CHAIR RAIL, PICTURE RAILS, CHALK TRAYS AND OTHER RUNNING TRIM THROUGHOUT):
   - A. REMOVE ANY TRIM PIECES THAT ARE LOOSE OR NOT OTHERWISE FULLY SECURE TO SUBSTRATES. SALVAGE FOR REUSE.
   - B. REMOVE ALL LOOSE. FLAKING, OR OTHERWISE COMPROMIZED PAINT/COATINGS FROM ALL WOOD TRIM SURFACES TO PREPARE FOR REPAINTING
9. DOORS:
   - A. WHERE BOTH DOORS AND FRAMES ARE INDICATED OR SCHEDULED TO BE DEMOLISHED, REMOVE DOORS, FRAMES AND RELATED HARDWARE.
   - B. WHERE DOOR LEAF ONLY IS INDICATED OR SCHEDULED TO BE DEMOLISHED, REMOVE DOORS AND RELATED HARDWARE.
10. GRIND SMOOTH AND PATCH EXISTING FLOOR WITH FLOOR LEVELING COMPOUND AND AS REQUIRED IN ALL AREAS WHERE ADJACENT SLABS ARE NOT LEVEL AFTER REMOVAL OF WALLS. PREPARE FOR INSTALLATION OF NEW FINISHES.
11. COORDINATE REMOVAL OF SLAB ON GRADE AS REQUIRED FOR INSTALLATION OF NEW SANITARY AND STORM PIPING AND CONNECTIONS TO EXISTING IN OR BELOW SLAB WORK. REFERENCE PLUMBING DRAWINGS FOR UNDER-SLAB PIPE LOCATIONS AND ROUTING. REFERENCE STRUCTURAL DRAWINGS FOR SLAB REPAIR DETAILS.
12. WHERE RECESSED ELECTRICAL BOXES FOR RECEPTACLES, SWITCHES AND/OR OTHER DEVICES ARE ABANDONDED IN-PLACE, REMOVE BOX TO EXTENTS NECESSARY TO PATCH WALL MATERIAL TO MATCH ADJACENT FINISHED SURFACES BY PATCHING PLASTER, DRYWALL OTHER MATERIAL MATCHING EXISTING CONSTRUCTION AND MATERIAL.
13. DIMENSIONS SHOWN IN DEMOLITION DRAWINGS ARE APPROXIMATE TO FINISHED FACE OF NEW OPENING U.N.O. CONTRACTOR TO COORDINATE EXTENT OF DEMO NECESSARY WITH NEW WORK.
14. ELEVATOR DEMOLITION:
    - A. ALL COMPONENTS OF ELEVATOR, INCLUDING BUT NOT LIMITED TO CAB, CABLES, RAILS, JACK/SHAFT, HYDRAULIC LINES AND EQUIPMENT, ELECTRONIC CONTROLS, DOORS, DOORFRAMES, DOOR SILLS, ETC. SHALL BE DEMOLISHED.
    - B. ELEVATOR COMPONENENTS SHALL BE REMOVED FROM THE HOISTWAY THROUGH THE ELEVATOR DOOR OPENINGS. THE HOISTWAY SHAFT WALLS AND HOISTWAY SHAFT CAP SHALL NOT BE DAMAGED, DEMOLISHED, OR OTHERWISE MODIFIED.
    - C. AFTER REMOVAL OF HYDRAULIC JACK PISTON, FILL REMAINING HOLE IN SLAB WITH CONCRETE AND STRIKE FLUSH WITH PIT SLAB.
    - D. DEMOLISH PORTION OF LEVEL 3 HOISTWAY WALL AS REQUIRED FOR INSTALLATION OF NEW ELEVATOR CONTROLS (JAMB-MOUNTED MACHINE-ROOM-LESS ELEVATOR CONTROLS) COORDINATE SCOPE AND EXTENTS WITH ELEVATOR INSTALLER.
    - E. FILL REMAINING UN-USED HOLES, PENETRATIONS, GAPS, ETC. IN HOISTWAY WALLS WITH FIRESTPOPING WHERE NOT REUSED FOR INSTALLATION OF NEW ELEVATOR AND ASSOCIATED ELECTRICAL COMPONENTS.
15. REFER TO CIVIL PLANS FOR DEMOLITION OF SITE ELEMENTS
16. REMOVE ALL EXISTING DEVICES, NAILS, FASTENERS, ANCHORS, HANGERS OR OTHER ITEMS (EXCLUSIVE OF WOOD TRIM AND OTHER HISTORIC BUILDING ELEMENTS) SECURED TO WALLS THAT ARE NOT INDICATED TO REMAIN. PATCH HOLES.
17. REMOVE PLYWOOD PANELS SCREWED DOWN TO EXISTING SUBFLOOR THROUGHOUT LEVEL 3. PANELS WERE INSTALLED BY ROOF CONTRACTOR AND LEFT IN PLACE TO PROVIDE SAFE WALKING ENVIRONMENT UNTIL CONSTRUCTION START.
18. EXISTING CHILLER LOCATED AT NORTH-EAST CORNER OF SITE WITHIN FENCE ENCLOSURE. CONTRACTOR SHALL DISCONNECT CHILLER FROM ELECTRICAL AND PIPING SYSTEMS AND TRANSPORT TO 2325 MAURY STREET, RICHMOND, VA 23224.
19. CLEANING. AFTER COMPLETION OF DEMOLITION, REMEDIATION, PAINT REMOVAL, PLASTER REMOVAL AND OTHER ACTIVITIES OCCURING PRIOR TO INSTALLATION OF NEW MATERIALS, COMPLETE REMOVAL OF DIRT, DEBRIS, CONSTRUCTION MATERIALS, DAMAGED AND DETERIORATED BUILDING MATERIALS, PAINT COATINGS, PLASTER DEBRIC, MASONRY DEBRIS, SAWDUST, GREASE, ETC. SHALL BE CARRIED OUT BY MEANS REQUIRED TO PROVIDE CLEAN INTERIOR SPACE, FREE OF DUST, PARTICULATES, CONTAMINANTS AND OTHER MATERIALS THAT MAY INHIBIT PROPER INSTALLATION OF NEW WORK.

KEYNOTES

02.05	REMOVE EXISTING RUBBER STAIR TREADS AT STAIRS AND LANDINGS, TYP
02.09	DEMOLISH SLATE TREADS, TYP
02.20	DEMOLISH METAL PIPE GUARD RAIL AND/OR HANDRAIL. CORE DRILL TO REMOVE PORTION OF PIPE ANCHORED IN CURB AND REMOVE TO ALLOW INSTALLATION OF NEW RAIL IN EXISTING LOCATIONS.
02.23	DEMOLISH PLASTER FROM EXISTING MASONRY WALL THIS AREA, REFER TO PLASTER REPAIR SCOPE FOR EXTENTS AND REQUIREMENTS.
02.26	DEMOLISH WOOD DOOR TRIM AND CASING AT OPENING
02.29	DEMOLISH EXISTING CONCRETE EQUIPMENT PAD. PATCH AND REPAIR SLAB AS REQUIRED FOR INSTALLATION OF NEW FINISHES.
02.38	DEMOLISH EXISTING PYROBLOCK SHAFT AT LEVEL 3 AND AT TOP PART OF LEVEL 2 (11'-4" FROM FINISH FLOOR). COORDINATE EXTENTS OF DEMOLITION WITH INSTRUCTION OF NEW WORK. SEE SHAFT SECTIONS.
02.44	DEMOLISH EXISTING WALL-MOUNTED HEATER. PATCH PARTITION AS NECESSARY
02.45	EXISTING FRAME TO REMAIN
02.49	DEMOLISH EXISTING WIRING RACEWAYS EMBEDDED IN EXISTING PLASTER, WHERE NEW WIRING RACEWAY IS TO BE INSTALLED. COORDINATE WITH NEW WORK PLANS. TYPICAL AT CLASSROOM DOORS. ALL LOCATIONS MAY NOT BE INDICATED ON PLANS.
02.55	EXISTING DOOR OPENING. DEMOLISH REMNANTS OF EXISTING DAMAGED FRAME AND CASING - PREPARE OPENING TO RECEIVE NEW DOOR, FRAME AND CASING
02.56	DEMOLISH OVERHEAD MEZZANINE LEVEL FLOOR JOISTS, FRAMING AND FLOORING
02.59	DEMOLISH EXISTING PYROBLOCK CHASEWALL AND FINISHES IN ITS ENTIRETY.
02.63	EXISTING SLIDING DOOR AND TRACK SYSTEM: REMOVE DOOR (WHERE EXISTING) AND SALVAGE FOR RESTORATION. DEMOLISH ENTIRE DOOR TRACK. STEEL SUPPORT STRUCTURE (STEEL CHANNEL AND PLATE) SHALL REMAIN IN PLACE AND SUPPORTED AS REQUIRED DURING DEMOLITION OF EXISTING ADJACENT SHAFTS AND CONSTRUCTION OF NEW WALLS. EXISTING WOOD TRIM SHALL BE SUPPORTED IN PLACE OR REMOVED AND REINSTALLED, AS REQUIRED TO CARRY OF NEW WORK
02.64	REMOVE LOUVER, INFILL MASONRY WALL WITH CMU, AND PATCH WITH PLASTER.
02.66	DEMOLISH ELEVATOR HYDRAULIC AND ELECTRICAL CONTROL COMPONENTS, WIRING, BOXES AND CONDUIT. PATCH ALL REMAINING HOLES IN HOISTWAY SHAFT WALLS UNLESS PENETRATIONS ARE TO BE REUSED TO SERVE NEW ELEVATOR.
02.67	DEMOLISH DAMAGED EXTERIOR INSULATED FINISH SYSTEM PANEL. PREPARE FOR INSTALLATION OF NEW FINISH.
02.68	DEMOLISH ELEVATOR DOOR ASSEMBLY AND RELATED COMPONENTS TO PREPARE FOR NEW ELEVATOR DOOR INSTALLATION.



1 AD103 DEMOLITION PLAN - LEVEL 3
1/8" = 1'-0"

QUINN EVANS
1840 WEST BROAD STREET
SUITE 400
RICHMOND, VA 23220
v 804.788.4774
QUINNEVANS.COM

RPS RICHMOND PUBLIC SCHOOLS

WILLIAM FOX ELEMENTARY SCHOOL RECONSTRUCTION

RICHMOND PUBLIC SCHOOLS
2300 HANOVER AVENUE
RICHMOND, VA 23220

STATE PROJECT No: 123-20-00-101

No.	Date	Description
1	10/18/2023	ADDENDUM 001

PROJECT MANAGER: KS
DRAWN BY: BG/KB/LC/LG

QEA No.42240940

BID DOCUMENTS
10/3/2023

DEMOLITION PLAN - LEVEL 3

AD103

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