THE SCHOOL DISTRICT OF PHILADELPHIA Office of Capital Programs 440 North Broad Street, 3<sup>rd</sup> Floor – Suite 371 Philadelphia, PA 19130

TELEPHONE: (215) 400-4730

#### Addendum No. 002

- Subject: 2020 Classroom Modernizations SDP Contract Numbers: B-007 C of 19/20 & B-009 C of 19/20
- Location: George Sharswood School 2300 S. 2nd St, Philadelphia PA 19148

This Addendum, dated February 27, 2020, shall modify and become part of the Contract Documents for the work of this project. Any items not mentioned herein, or affected by, shall be performed strictly in accordance with the original documents.

#### 1. SECTION 01 1100 ENVIRONMENTAL COORDINATION

#### A. 01 1135 ASBESTOS ABATEMENT SPECIFICATION

#### DELETE ASBESTOS ABATEMENT SPECIFICATION, Print Date 1/22/20, AND

#### REPLACE WITH ATTACHED ASBESTOS ABATEMENT SPECIFICATION, Print Date 2/27/20

#### B. ADD THE ATTACHED ASBESTOS INSPECTION REPORT, Print Date 2/27/20

#### 2. CLARIFICATIONS & CORRECTIONS TO DRAWINGS & SPECS:

#### **A. SPECIFICATIONS**

#### **SPECIFICATION 262416 – PANELBOARDS**

1. ADD specification in its entirety.

#### **SPECIFICATION 275313 – WIRELESS CLOCK SYSTEM**

1. REVISE 2.2.H. to read "H. Basis of Design: Sapling Inc. SMA <del>2000</del> **3000** Series Master Clock (V8.1), Wireless Clock System. [Addendum No. 1]."

#### **B. DRAWINGS**

#### COVER SHEETS

#### **DRAWING CS.1 – COVER SHEET**

1. ADD deed address to read "200 WOLF STREET, PHILADELPHIA, PA 19148-3345."

#### DRAWING CS.2 – GENERAL INFORMATION

1. REVISE Gypsum Wall Board Location Schedule to read at Cementitious Backer Unit "AT WALLS SCHEDULED TO RECEIVE CERAMIC TILE."

#### ARCHITECTURAL DRAWINGS

#### DRAWING A6.1 – ROOM FINISH SCHEDULE

- 1. CLARIFICATION Room Finish Schedule column "COLOR SCHEME" pertaining to all classrooms classrooms color schemes are assigned by existing accent paint colors (and not by grade level) since school was recently painted.
- 2. REVISED Color Scheme Schedule Color Scheme A, item no. 5 to read as: "5. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 51947 BASIL GREEN"
- 3. ADD Color Scheme Schedule Color Scheme A, item no. 7 to read as: "7. VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY".
- 4. REVISED Color Scheme Schedule Color Scheme B to read as: "COLOR SCHEME B, CLASSROOMS-BLUE & YELLOW".
  - a. REVISED item no. 4 to read as: "4. VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 51927 FIELD GRAY"
  - b. REVISED item no. 5 to read as: "5. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 57509 LEMON LICK"
  - c. ADD item no. 7 to read as: "7. VINYL BASE: JOHNSONITE, NO. 469 MYSTIFY".
- 5. REVISED Color Scheme Schedule Color Scheme C to read as: "COLOR SCHEME C, CLASSROOMS-BLUE & YELLOW".
  - a. REVISED item no. 3 to read as: "3. VINYL COMPOSITION TILE, FIELD: ARMSTRONG, NO. 51860 SOFT COOL GRAY"
  - b. REVISED item no. 4 to read as: "4. VINYL COMPOSITION TILE, ACCENT '1': ARMSTRONG, NO. 57517 BODACIOUS BLUE"
  - c. REVISED item no. 5 to read as: "5. VINYL COMPOSITION TILE, ACCENT '2': ARMSTRONG, NO. 59230 VICTORIA BLUE"
  - d. ADD item no. 7 to read as: "7. VINYL BASE: JOHNSONITE, NO. 262 DRIZZLE".
- 6. REVISED Color Scheme Schedule General Notes Item No. 7 to read as: "NOT USED".

#### INTERIOR DRAWINGS

#### DRAWING I4.1 – LARGE SCALE LAYOUTS - PRE-K & KINDERGARTEN

1. REVISED detail 5/I4.1 KINDERGARTEN – ROOM 105 – Revise 704 & 706 to 703. Align Smart Board with right edge of Visual Display board.

#### DRAWING I4.3 – LARGE SCALE LAYOUTS - THIRD GRADE & SPECIAL EDUCATION

 REVISED detail 5/I4.3 SPECIAL EDUCATION – ROOM 108 – Revised elevation indicator plan right to detail U/I4.5 "EXISTING BUILT-IN DISPLAY WALL - ROOM 223 & DISPLAY WALL - ROOM 108".

#### DRAWING 14.5 – INTERIOR ELEVATIONS (CONT.) & CASEWORK DETAILS

1. REVISED detail U/I4.5 to read as follows: "EXISTING BUILT-IN DISPLAY WALL - ROOM 223 & DISPLAY WALL - ROOM 108".

#### ELECTRICAL DRAWINGS

#### ED1.1 - ELECTRICAL FIRST FLOOR DEMOLITION PLAN

1. ADD general note "ELECTRICAL CONTRACTOR RO PROVIDE ALLOWANCE FOR REMOVAL OF 50'-0" OF SURFACE MOUNTED RACEWAY/CONDUIT AND CONDUCTORS IN EACH CLASSROOM."

#### ED1.2 - ELECTRICAL SECOND FLOOR DEMOLITION PLAN

1. ADD general note "ELECTRICAL CONTRACTOR RO PROVIDE ALLOWANCE FOR REMOVAL OF 50'-0" OF SURFACE MOUNTED RACEWAY/CONDUIT AND CONDUCTORS IN EACH CLASSROOM."

#### E2.1 - ELECTRICAL FIRST FLOOR POWER AND TECHNOLOGY PLAN

- 1. ADD General Sheet Note #6 to read "ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS."
- 2. REVISE power and data layout as indicated on the drawings.
- 3. CLARIFY where panel is called to be semi-recessed, contractor shall cut the glazed block wall to accommodate the panels. A surface mounted panelboard will cause a 6" intrusion into the path of egress, which is not permitted.

#### E2.2 - ELECTRICAL SECOND FLOOR POWER AND TECHNOLOGY PLAN

- 1. ADD General Sheet Note #6 to read "ELECTRICAL CONTRACTOR TO RUN ALL NEW SURFACE MOUNTED CONDUITS AND RACEWAYS IN CORNERS OF EACH CLASSROOM TO AVOID CONFLICT WITH DISPLAY BOARDS AND OTHER CLASSROOM FURNISHINGS."
- 2. REVISE power and data layout as indicated on the drawings.

#### **DRAWING E6.1 - ELECTRICAL PANEL SCHEDULES**

1. REVISE panel schedules as indicated on drawing.

### 4. BIDDER QUESTIONS SUBMITTED TO DATE & RESPONSES ARE AS FOLLOWS:

1. On the website, each school has an EC and GC bid. Who will be responsible for the HVAC and Plumbing work that is included?

**Answer:** There is no HVAC work in the project. Plumbing will be the responsibility of the GC.

2. Specifications call for Sapling Master 2000 Clock. Sapling 3000 is normally the school district standard. Manufacturer comment "a 3000 can set up bell schedules where a 2000 cannot. Philly schools does not have intercom systems, so they have no way of ringing bells without the 3000." Should the specs be revised to install a 3000?

**Answer:** Specification 275313 has been revised in this addendum. Refer to specification addendum section, above.

3. The specifications do not contain a specification for the electrical panels. Can you provide?

Answer: The specification has been added as part of this addendum.

4. Panel drawn calls for semi-recessed panel. The existing backbox will not accept a 42 circuit panel and meet code for bending requirements. Can we blank off existing backbox and install surface panel? (Please do not tell us to cut and remove backbox, it's in glazed block).

**Answer:** A surface mounted panelboard will cause a 6" intrusion into the Path of Egress which is not permitted. The Contractor must cut the glazed block wall to accommodate the panels.

5. Drawing D1.1, Demolition Note 9A states "existing unit ventilator and/or radiator, radiator cover and all associated piping and components to be removed (as applicable) and refinished with electrostatic paint and reinstalled as scheduled. Clean unit ventilator and/or radiator and all associated components prior to reinstallation of cover." Is this the responsibility of the GC?

**Answer Part 1:** Drawing D1.1, Demolition Note 9A should read "*existing unit* ventilator cover and/or radiator cover to be removed (as applicable) and refinished with electrostatic paint and reinstalled as scheduled. Clean unit ventilator and/or radiator and all associated components prior to reinstallation of cover."

**Answer Part 2:** Yes, the refinishing and reinstallation of the unit ventilator cover is the responsibility of the GC.

6. The contract drawings don't show any details regarding the scope of work. The notes on the drawings lead us to believe that the intent is to Paint the Ventilator Grilles and Radiator covers. Please clarify?

**Answer:** See Question #6, above. Also refer to Specification 105115 Electrostatic Painting for refinishing requirements for metal surfaces.

7. The contract drawings don't show any window film. Please clarify?

**Answer:** Per Specification 101115, Section 2.2.B.2, location to be at Samuel L. Gompers Elementary per drawings only.

8. Drawings don't show S.S. Corner Guard locations. Please Clarify?

**Answer:** Per Specification 102600, Section 2.3.A.7, we have indicated corner guards to be received at three schools; John B. Kelly Elementary per drawings, Overbrook Educational Center per drawings, and Fox Chase Elementary per drawings.

9. Can Site Visits be arranged for these Schools after classes are done in order to see rooms not seen @ site visit on 2/11? If so please provide contact info.

**Answer:** An additional site visit can be scheduled with the Construction Manager. Contact George Leone via email: <u>gleone@philasd.org</u>

 Reference Supplementary Conditions Par. 16 Photographs, Are photos necessary for this type of project ? Please consider deleting from scope of work.( Save \$)

**Answer:** No; however, digital photographs on CD's or flash drives will be acceptable: and prints and negatives not required.

11. Is asbestos part of this scope of work?

**Answer:** Yes. Refer to Specification Section 01 1100 Environmental Coordination, 01 1135-Asbestos Abatement and Lead Based Paint Stabilization Specifications

12. Is asbestos the responsibility of the contractor awarded the project?

Answer: Asbestos is the responsibility of the GC that is awarded the project.

13. Is electrical part of this scope of work?

**Answer:** The electrical part of the scope is the responsibility of the Electrical Contractor.

14. Is electrical the responsibility of the contractor awarded the project?

**Answer:** The electrical is the responsibility of the Electrical Contractor that is awarded the electrical contract.

#### **ATTACHMENTS**

#### SPECIFICATIONS

SPECIFICATION 262416 PANELBOARDS

#### DRAWINGS

DRAWING A6.1 ROOM FINISH SCHEDULE

DRAWING I4.1	LARGE SCALE LAYOUTS – KINDERGARTEN
DRAWING 14.3	LARGE SCALE LAYOUTS - THIRD GRADE & SPECIAL EDUCATION
DRAWING 14.5	LARGE SCALE LAYOUTS - INTERIOR ELEVATIONS (CONT.) &
	CASEWORK DETAILS

DRAWING E2.1 DRAWING E2.2 DRAWING E6.1 ELECTRICAL FIRST FLOOR POWER AND TECHNOLOGY PLAN ELECTRICAL SECOND FLOOR POWER AND TECHNOLOGY PLAN ELECTRICAL PANEL SCHEDULES

ASBESTOS ABATEMENT SPECIFICATION, Print Date 2/27/20

ASBESTOS INSPECTION REPORT, print Date 2/2/20

#### END OF ADDENDUM #002

#### SECTION 262416 - PANELBOARDS [ Addendum No. 1]

PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
  - A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- 1.2 SUMMARY
  - A. Section Includes:
    - 1. Lighting and appliance branch-circuit panelboards.
- 1.3 DEFINITIONS
  - A. ATS: Acceptance testing specification.
  - B. GFCI: Ground-fault circuit interrupter.
  - C. GFEP: Ground-fault equipment protection.
  - D. MCCB: Molded-case circuit breaker.
  - E. VPR: Voltage protection rating.
- 1.4 ACTION SUBMITTALS
  - A. Product Data: For each type of panelboard.
    - 1. Include materials, switching and overcurrent protective devices, SPDs, accessories, and components indicated.
    - 2. Include dimensions and manufacturers' technical data on features, performance, electrical characteristics, ratings, and finishes.
  - B. Shop Drawings: For each panelboard and related equipment.
    - 1. Include dimensioned plans, elevations, sections, and details.
    - 2. Show tabulations of installed devices with nameplates, conductor termination sizes, equipment features, and ratings.
    - 3. Detail enclosure types including mounting and anchorage, environmental protection, knockouts, corner treatments, covers and doors, gaskets, hinges, and locks.
    - 4. Detail bus configuration, current, and voltage ratings.
    - 5. Short-circuit current rating of panelboards and overcurrent protective devices.
    - 6. Detail features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.
    - 7. Include wiring diagrams for power, signal, and control wiring.

- 8. Key interlock scheme drawing and sequence of operations.
- 9. Include time-current coordination curves for each type and rating of overcurrent protective device included in panelboards. Submit on translucent log-log graft paper; include selectable ranges for each type of overcurrent protective device. Include an Internet link for electronic access to downloadable PDF of the coordination curves.
- C. Contractor shall submit a "specifications compliance statement" for each manufactured piece of equipment. Contractor/Supplier shall add "redlined" line-by-line notations to a PDF of the Specifications Section indicating the product or actions required "complies". Contractor/Supplier shall itemize all deviations from the specified requirement on a line-by-line basis. List of exceptions to product specification shall include proposed materials, methods and cost difference where substitutions are allowed. If product does not comply with the specification the Contractor/Supplier shall state what modifications and actions are being implemented to ensure the product shall comply per the substitution section of the contract documents.

#### 1.5 STATEMENT OF COMPLIANCE

A. Contractor shall submit a "specifications compliance statement" for each manufactured piece of equipment. Contractor/Supplier shall add "redlined" notations to a PDF of the Specifications Section indicating the product or actions required "complies". If product does not comply the Contractor/Supplier shall state what modifications and actions are being implemented to ensure the product shall comply per the substitution section of the contract documents.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For testing agency.
- B. Panelboard Schedules: For installation in panelboards. Submit final versions after load balancing.

#### 1.7 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For panelboards and components to include in emergency, operation, and maintenance manuals. In addition to items specified in other section for "Operation and Maintenance Data," include the following:
  - 1. Manufacturer's written instructions for testing and adjusting overcurrent protective devices.
  - 2. Time-current curves, including selectable ranges for each type of overcurrent protective device that allows adjustments.

#### 1.8 QUALITY ASSURANCE

A. Manufacturer Qualifications: ISO 9001 or 9002 certified.

- 1.9 DELIVERY, STORAGE, AND HANDLING
  - A. Remove loose packing and flammable materials from inside panelboards; install temporary electric heating (250 W per panelboard) to prevent condensation.
  - B. Handle and prepare panelboards for installation according to NECA 407.
- 1.10 FIELD CONDITIONS
  - A. Environmental Limitations:
    - 1. Do not deliver or install panelboards until spaces are enclosed and weathertight, wet work in spaces is complete and dry, work above panelboards is complete, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.
    - 2. Rate equipment for continuous operation under the following conditions unless otherwise indicated:
      - a. Ambient Temperature: Not exceeding 23 deg F (minus 5 deg C) to plus 104 deg F (plus 40 deg C).
      - b. Altitude: Not exceeding 6600 feet (2000 m).
  - B. Service Conditions: NEMA PB 1, usual service conditions, as follows:
    - 1. Ambient temperatures within limits specified.
    - 2. Altitude not exceeding 6600 feet (2000 m).
  - C. Interruption of Existing Electric Service: Do not interrupt electric service to facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary electric service according to requirements indicated:
    - 1. Notify Construction Manager no fewer than two days in advance of proposed interruption of electric service.
    - 2. Do not proceed with interruption of electric service without Construction Manager's written permission.
    - 3. Comply with NFPA 70E.

#### 1.11 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace panelboards that fail in materials or workmanship within specified warranty period.
  - 1. Panelboard Warranty Period: 18 months from date of Substantial Completion.

#### PART 2 - PRODUCTS

- 2.1 PANELBOARDS COMMON REQUIREMENTS
  - A. Fabricate and test panelboards according to IEEE 344 to withstand seismic forces defined in other section for "Seismic Controls for Electrical Systems."

- B. Product Selection for Restricted Space: Drawings indicate maximum dimensions for panelboards including clearances between panelboards and adjacent surfaces and other items. Comply with indicated maximum dimensions.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. Comply with NEMA PB 1.
- E. Comply with NFPA 70.
- F. Enclosures: Flush and Surface-mounted, dead-front cabinets.
  - 1. Rated for environmental conditions at installed location.
    - a. Indoor Dry and Clean Locations: NEMA 250, Type 1.
    - b. Indoor Locations Subject to Dust, Falling Dirt, and Dripping Noncorrosive Liquids: NEMA 250, Type 5.
  - 2. Height: 84 inches (2.13 m) maximum.
  - 3. Hinged Front Cover: Entire front trim hinged to box and with standard door within hinged trim cover. Trims shall cover all live parts and shall have no exposed hardware.
  - 4. Gutter Extension and Barrier: Same gage and finish as panelboard enclosure; integral with enclosure body. Arrange to isolate individual panel sections.
  - 5. Finishes:
    - a. Panels and Trim: Steel, factory finished immediately after cleaning and pretreating with manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat.
    - b. Back Boxes: Same finish as panels and trim.
- G. Incoming Mains:
  - 1. Location: Top and Bottom.
  - 2. Main Breaker: Main lug interiors up to 400 amperes shall be field convertible to main breaker.
- H. Phase, Neutral, and Ground Buses:
  - 1. Material: Hard-drawn copper, 98 percent conductivity.
    - a. Plating shall run entire length of bus.
    - b. Bus shall be fully rated the entire length.
  - 2. Interiors shall be factory assembled into a unit. Replacing switching and protective devices shall not disturb adjacent units or require removing the main bus connectors.
  - 3. Equipment Ground Bus: Adequate for feeder and branch-circuit equipment grounding conductors; bonded to box.
  - 4. Full-Sized Neutral: Equipped with full-capacity bonding strap for service entrance applications. Mount electrically isolated from enclosure. Do not mount neutral bus in gutter.
- I. Conductor Connectors: Suitable for use with conductor material and sizes.

- 1. Material: Hard-drawn copper, 98 percent conductivity.
- 2. Terminations shall allow use of 75 deg C rated conductors without derating.
- 3. Size: Lugs suitable for indicated conductor sizes, with additional gutter space, if required, for larger conductors.
- 4. Main and Neutral Lugs: Mechanical type, with a lug on the neutral bar for each pole in the panelboard.
- 5. Ground Lugs and Bus-Configured Terminators: Mechanical type, with a lug on the bar for each pole in the panelboard.
- 6. Feed-Through Lugs: Mechanical type, suitable for use with conductor material. Locate at opposite end of bus from incoming lugs or main device.
- 7. Subfeed (Double) Lugs: Mechanical type suitable for use with conductor material. Locate at same end of bus as incoming lugs or main device.
- 8. Gutter-Tap Lugs: Mechanical type suitable for use with conductor material and with matching insulating covers. Locate at same end of bus as incoming lugs or main device.
- J. Future Devices: Panelboards or load centers shall have mounting brackets, bus connections, filler plates, and necessary appurtenances required for future installation of devices.
  - 1. Percentage of Future Space Capacity: 20 percent.
- K. Panelboard Short-Circuit Current Rating: Match existing condition Ratings (Field coordinate).
- L. Panelboard Short-Circuit Current Rating: Fully rated to interrupt symmetrical short-circuit current available at terminals. Assembly listed by an NRTL for 100 percent interrupting capacity. However, if the short-circuit & coordination study requires higher AIC rating, then the contractor shall provide higher rated panels without any additional cost to the owners. It is highly recommended that short-circuit & coordination study be prepared prior to ordering the panels.
  - 1. Panelboards and overcurrent protective devices rated 240 V or less shall have shortcircuit ratings as shown on Drawings, but not less than 10,000 A rms symmetrical.
  - 2. Panelboards and overcurrent protective devices rated above 240 V and less than 600 V shall have short-circuit ratings as shown on Drawings, but not less than 14,000 A rms symmetrical.

#### 2.2 PERFORMANCE REQUIREMENTS

- A. Seismic Performance: Panelboards shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
  - 1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."

#### 2.3 LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

- A. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:
  - 1. <u>Eaton</u>.
  - 2. East coast Panelboard Inc.
  - 3. <u>Square D; by Schneider Electric</u>.

- B. Panelboards: NEMA PB 1, lighting and appliance branch-circuit type.
- C. Mains: Circuit breaker or lugs only.
- D. Branch Overcurrent Protective Devices: Bolt-on circuit breakers, replaceable without disturbing adjacent units.
- E. Doors: Door-in-door construction with concealed hinges; secured with multipoint latch with tumbler lock; keyed alike. Outer door shall permit full access to the panel interior. Inner door shall permit access to breaker operating handles and labeling, but current carrying terminals and bus shall remain concealed.

#### 2.4 DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

- A. <u>Manufacturers:</u> Subject to compliance with requirements, provide products by one of the following:
  - 1. <u>Eaton</u>.
  - 2. East coast Panelboard Inc.
  - 3. Square D; by Schneider Electric.
- B. MCCB: Comply with UL 489, with interrupting capacity to meet available fault currents.
  - 1. Thermal-Magnetic Circuit Breakers:
    - a. Inverse time-current element for low-level overloads.
    - b. Instantaneous magnetic trip element for short circuits.
    - c. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
  - 2. GFCI Circuit Breakers: Single- and double-pole configurations with Class A ground-fault protection (6-mA trip).
  - 3. Subfeed Circuit Breakers: Vertically mounted.
  - 4. MCCB Features and Accessories:
    - a. Standard frame sizes, trip ratings, and number of poles.
    - b. Breaker handle indicates tripped status.
    - c. UL listed for reverse connection without restrictive line or load ratings.
    - d. Lugs: Mechanical style, suitable for number, size, trip ratings, and conductor materials.
    - e. Application Listing: Appropriate for application; Type SWD for switching fluorescent lighting loads.
    - f. Communication Capability: Circuit-breaker-mounted communication module with functions and features compatible with power monitoring and control system specified in other section for "Electrical Power Monitoring and Control."
    - g. Shunt Trip: 120-V trip coil energized from separate circuit, set to trip at 55 percent of rated voltage.
    - h. Undervoltage Trip: Set to operate at 35 to 75 percent of rated voltage without intentional time delay.
    - i. Auxiliary Contacts: One, SPDT switch with "a" and "b" contacts; "a" contacts mimic circuit-breaker contacts and "b" contacts operate in reverse of circuit-breaker contacts.
    - j. Alarm Switch: Single-pole, normally open contact that actuates only when circuit breaker trips.

- k. Multipole units enclosed in a single housing with a single handle or factory assembled to operate as a single unit.
- I. Handle Padlocking Device: Fixed attachment, for locking circuit-breaker handle in on or off position.
- m. Handle Clamp: Loose attachment, for holding circuit-breaker handle in on position.

#### 2.5 IDENTIFICATION

- A. Panelboard Label: Manufacturer's name and trademark, voltage, amperage, number of phases, and number of poles shall be located on the interior of the panelboard door.
- B. Breaker Labels: Faceplate shall list current rating, UL and IEC certification standards, and AIC rating.
- C. Circuit Directory: Computer-generated circuit directory mounted inside panelboard door with transparent plastic protective cover.
  - 1. Circuit directory shall identify specific purpose with detail sufficient to distinguish it from all other circuits.

#### 2.6 ACCESSORY COMPONENTS AND FEATURES

A. Accessory Set: Include tools and miscellaneous items required for overcurrent protective device test, inspection, maintenance, and operation.

#### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Verify actual conditions with field measurements prior to ordering panelboards to verify that equipment fits in allocated space in, and comply with, minimum required clearances specified in NFPA 70.
- B. Receive, inspect, handle, and store panelboards according to NECA 407.
- C. Examine panelboards before installation. Reject panelboards that are damaged, rusted, or have been subjected to water saturation.
- D. Examine elements and surfaces to receive panelboards for compliance with installation tolerances and other conditions affecting performance of the Work.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 INSTALLATION

A. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent

surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.

- B. Comply with NECA 1.
- C. Install panelboards and accessories according to NECA 407.
- D. Equipment Mounting:
  - 1. Attach panelboard to the vertical finished or structural surface behind the panelboard.
  - 2. Comply with requirements for seismic control devices specified in other section for "Seismic Controls for Electrical Systems."
- E. Comply with mounting and anchoring requirements specified in other section for "Seismic Controls for Electrical Systems."
- F. Mount top of trim 90 inches (2286 mm) above finished floor unless otherwise indicated.
- G. Mount panelboard cabinet plumb and rigid without distortion of box.
- H. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.
- I. Mount surface-mounted panelboards to steel slotted supports 5/8 inch (16 mm) in depth. Orient steel slotted supports vertically.
- J. Install overcurrent protective devices and controllers not already factory installed.
  - 1. Set field-adjustable, circuit-breaker trip ranges.
  - 2. Tighten bolted connections and circuit breaker connections using calibrated torque wrench or torque screwdriver per manufacturer's written instructions.
- K. Install filler plates in unused spaces.
- L. Arrange conductors in gutters into groups and bundle and wrap with wire ties after completing load balancing.

#### 3.3 IDENTIFICATION

- A. Identify field-installed conductors, interconnecting wiring, and components; install warning signs complying with requirements in other section for "Identification for Electrical Systems."
- B. Create a directory to indicate installed circuit loads after balancing panelboard loads; incorporate Owner's final room designations. Obtain approval before installing. Handwritten directories are not acceptable. Install directory inside panelboard door.
- C. Panelboard Nameplates: Label each panelboard with a nameplate complying with requirements for identification specified in other section for "Identification for Electrical Systems."
- D. Device Nameplates: Label each branch circuit device in power panelboards with a nameplate complying with requirements for identification specified in other section for "Identification for Electrical Systems."

E. Install warning signs complying with requirements in other section for "Identification for Electrical Systems" identifying source of remote circuit.

#### 3.4 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- B. Perform tests and inspections.
  - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- C. Acceptance Testing Preparation:
  - 1. Test insulation resistance for each panelboard bus, component, connecting supply, feeder, and control circuit.
  - 2. Test continuity of each circuit.
- D. Tests and Inspections:
  - 1. Perform each visual and mechanical inspection and electrical test for low-voltage air circuit breakers stated in NETA ATS, Paragraph 7.6 Circuit Breakers. Perform optional tests. Certify compliance with test parameters.
  - 2. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
  - 3. Perform the following infrared scan tests and inspections and prepare reports:
    - a. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each panelboard. Remove front panels so joints and connections are accessible to portable scanner.
    - b. Instruments and Equipment:
      - 1) Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.
- E. Panelboards will be considered defective if they do not pass tests and inspections.
- F. Prepare test and inspection reports, including a certified report that identifies panelboards included and that describes scanning results, with comparisons of the two scans. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

#### 3.5 ADJUSTING

- A. Adjust moving parts and operable components to function smoothly, and lubricate as recommended by manufacturer.
- B. Set field-adjustable circuit-breaker trip ranges as specified in other section for "Coordination Studies."

- C. Load Balancing: After Substantial Completion, but not more than 60 days after Final Acceptance, measure load balancing and make circuit changes. Prior to making circuit changes to achieve load balancing, inform Architect of effect on phase color coding.
  - 1. Measure loads during period of normal facility operations.
  - 2. Perform circuit changes to achieve load balancing outside normal facility operation schedule or at times directed by the Architect. Avoid disrupting services such as fax machines and on-line data processing, computing, transmitting, and receiving equipment.
  - 3. After changing circuits to achieve load balancing, recheck loads during normal facility operations. Record load readings before and after changing circuits to achieve load balancing.
  - 4. Tolerance: Maximum difference between phase loads, within a panelboard, shall not exceed 20 percent.

#### 3.6 PROTECTION

A. Temporary Heating: Prior to energizing panelboards, apply temporary heat to maintain temperature according to manufacturer's written instructions.

END OF SECTION 262416

	ROOM FINISH SCHEDULE							
						WALLS		
		COLOR			WALL	WAIN	ISCOT	
NUMBER	NAME	SCHEME	FLOOR	BASE	FINISH	FINISH	HEIGHT	FINIS
FIRST FLOO	R							
101	KINDERGARTEN CLASSROOM	В	SLR	WD1/WD2	PNT/ETR			PNT/ET
102	SPECIAL EDUCATION (AS K-2) CLASSROOM	A	SLR	WD1/WD2	PNT/ETR			PNT/E1
103	1ST GRADE CLASSROOM	В	SLR	WD1/WD2	PNT/ETR			PNT/ET
105	KINDERGARTEN CLASSROOM	A	VCT	WD1	PNT/ETR			PNT/ET
105A	STORAGE	A	VCT	WD1	PNT/ETR			PNT/ET
105B	TOILET	G	PT	СТ	EPX3	СТ	+/-7'-4"	PNT/ET
106	KINDERGARTEN CLASSROOM	A	SLR	WD1/WD2	PNT/ETR			PNT/ET
106A	STORAGE	A	SLR	WD1	PNT/ETR			PNT/ET
107	1ST GRADE CLASSROOM	С	SLR	WD1/WD2	PNT/ETR			PNT/ET
107A	STORAGE	С	SLR	WD1	PNT/ETR			PNT/ET
108	SPECIAL EDUCATION (LSS K-2) CLASSROOM	В	SLR	WD1/WD2	PNT/ETR			PNT/E1
108A	STORAGE	В	SLR	WD1	PNT/ETR			PNT/ET
108B	TOILET	G	PT	СТ	EPX3	СТ	+/-7'-4"	PNT/ET
109	PRE-K CLASSROOM	A	SLR	WD1	PNT/ETR			PNT/ET
109A	STORAGE	A	SLR	WD1	PNT/ETR			PNT/ET
109B	TOILET	G	PT	СТ	EPX3	СТ	+/-7'-4"	PNT/ET
114	PRE-K CLASSROOM	A	VCT	WD1	PNT/ETR			PNT/ET
114A	TOILET	G	PT	СТ	EPX3	СТ	+/-7'-4"	PNT/ET
114B	STORAGE	A	VCT	WD1	PNT/ETR			PNT/ET
SECOND EL(	OOR							
217	3RD GRADE CLASSROOM	С	VCT	WD1	PNT/FTR			ACT
219	3RD GRADE CLASSROOM	B	SLR	WD1	PNT/ETR			PNT/E1
219A	STORAGE	B	SLR	WD1	PNT/ETR			PNT/E1
223	3RD GRADE CLASSROOM	A	VCT	WD1	PNT/ETR			PNT/AC
223A	STORAGE	A	VCT	WD1	PNT/ETR			PNT/ET
225	2ND GRADE CLASSROOM	В	SLR	WD1	PNT/ETR			PNT/E
228	2ND GRADE CLASSROOM	В	SLR	WD1	PNT/ETR			PNT/E7
228A	STORAGE	В	SLR	WD1	PNT/ETR			PNT/E7

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EILING	
-INISH	REMARKS
PNT/ETR	R51, R53
PNT/ETR	R52
PNT/ETR	R51, R53
PNT/ETR	R51
PNT/ETR	R51, R53
PNT/ETR	R51
PNT/ETR	R51, R53
PNT/ETR	R51
PNT/ETR	R52
PNT/ETR	R51, R53
PNT/ETR	R51
PNT/ETR	R52
PNT/ETR	R51, R53
PNT/ETR	R52
PNT/ETR	R51
ACT	R51, R53
PNT/ETR	R51, R53
PNT/ETR	R51
PNT/ACT	R51, R53, R77
	R51

I/EIR	R51
T/ACT	R51, R53, R77
T/ETR	R51
T/ETR	R51, R53
T/ETR	R51, R53
T/ETR	R51, R53

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UNLESS OTHERWISE NOTED: 1. TACK BOARDS: CLARIDGE FABRICORK, KL498 WINTHROPE

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- 2. ROLLER WINDOW SHADES : MERMET, GREENSCREEN REVIVE, 5% OPEN, COLOR: 0.22 STONE
- 3. SOLID SURFACE COUNTERTOP & SIDE/BACK SPLASH: CORIAN, COLOR: DEEP CAVIAR
- 4. CEILING PAINT: SHERWIN WILLIAMS, NO. SW7006 EXTRA WHITE 5. PREVIOUSLY PAINTED WOOD COMPONENTS: DOORS, TRIM, BASE, CHAIR RAIL, CROWN MOULDING, VISUAL DISPLAY TRIM, WINDOW SILLS .: SHERWIN WILLIAMS, NO. SW7068 GRIZZLE GRAY 6. PREVIOUSLY STAINED WOOD COMPONENTS: WOOD DOORS, WOOD TRIM, WOOD BASE, VISUAL
- DISPLAY BOARD, TRIM, ETC.: COLOR, TO MATCH EXISTING AND FIELD VERIFIED BY ARCHITECT/OWNER. 7. NOT USED.
  - 8. PREVIOUSLY PAINTED METAL TIERED COAT HOOKS & PREVIOUSLY PAINTED STUDENT CUBBIES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.
  - <u>NOTES:</u>

ADJACENT WALL COLOR.

- A. IF ROOM IS NOT INDICATED TO RECEIVE A FLOOR PATTERN, FIELD COLOR VCT SHALL BE USED.
- B. VCT ORIENTATION SHALL BE MATCHED TO EXISTING ADJACENT ROOM. C. ARCHITECT REQUIRES AN ON-SITE MOCK-UP FOR EACH PAINT COLOR. PROVIDE A MINIMUM 8'x10' AREA, A DOOR FRAME. CONTRACTOR MUST RECEIVE ARCHITECT'S APPROVAL BEFORE ORDERING. D. VERTICAL AND HORIZONTAL PLANES OF SOFFIT AND BULKHEAD SHALL BE PAINTED TO MATCH THE
- ADJACENT WALL COLOR, UNLESS OTHERWISE NOTED. E. COORDINATE ROOM FINISH SCHEDULE AND COLOR SCHEME SCHEDULE WITH DEMO/ALTERATION NOTES. F. ALL EXPOSED MECHANICAL, PLUMBING, & HVAC COMPONENTS SHALL BE PAINTED THE ADJACENT WALL COLOR. ITEMS INCLUDING BUT NOT LIMITED TO: PIPING, CONDUIT, VENTS, LOUVERS, GRILLES, RADIATORS, RADIATOR COVERS, ELECTRICAL PANELS, METAL ACCESS PANELS, METAL LOCKERS SHALL BE PAINTED

		Ê	THE PH	schc ILA	DOL DISTRICT OF
		OF	ICE OF	CAPI	TAL PROGRAMS
<b>ROOM F</b> I F L OO R	NISH SCHEDULE LEGEND         FINISH	440 PHIL	NORTH I	BROAD	STREET 19130 - 4015
PT VCT	PORCELAIN TILE VINYL COMPOSITION TILE	(215) www	) 400 - 473 .philasd.o	0   (215) rg	400 - 4731 (fax)
FLOOR	R E M A R K S	SE	AL:		
R1-R25: N	OT USED			MINIM	D ARCHINE
	CERAMIC TILE				
WD1 WD2	PAINT ON WOOD BASE, EXISTING PAINT ON WOOD BASE, NEW WOOD		ROR	K	
BASE R	EMARKS			C Town	
R26-R50:Ν			14	NEY MININ	STRAUMINI
CT	CERAMIC TILE	 R. JE	FFREY STRAU	3	
EPX PNT	PAINT	STAT	E AND LICEN	SE NO: RA40	03652
WALL F	R E M A R K S FOR WALLS RECEIVING NEW WORK, WALL SHALL				
	BE PAINTED FULL EXTENTS FROM TRIM TO TRIM AND TO UNDERSIDE OF EXISTING CROWN	AR CR	<u>Chitect</u> Abtree, R	OHRBAUC	GH & ASSOCIATES
R52:	MOULDING. SEE INTERIOR ELEVATIONS FOR VARYING WALL	401 Me Pho	E. Windin chanicsb one: 717-4	g Hill Roc urg, PA 17 58-0272	ad 7055
R53:	MATERIALS. PROVIDE ACCENT WALL.	Em	ail: jharde n: Jessie H	r@cra-ar@ arder	chitects.com
	G FINISH	ME	P ENGINE	RS	
ACT PNT	ACOUSTICAL CEILING TILE PAINTED GYPSUM WALLBOARD/PLASTER	SET	TY e South St	reet Suite	<b>-</b> 1130
CEILIN	G REMARKS	Bal Pho	timore, Ml one: 667-3	D 21202 09-6036	
R76: R77:	NOT USED SEE REFLECTED CEILING PLANS FOR VARYING	Em Att	ail: deepa n: Deepak	ak.at@set < Ajjimane	tty.com e
R78-R100:	CEILING MATERIALS AND HEIGHTS. NOT USED				
GENER	AL NOTES				
1. REFE DESC	R TO SPECIFICATIONS FOR DETAILED RIPTION OF FINISH SYSTEM/TYPES.				
2. REFE DETA 3 GYPS	R TO WALL TYPES FOR MASONRY LOCATIONS AND ILS. UM WALLBOARD BUI KHEADS AND SOFFITS SHALL				
BE PA 4. ALL H	INTED. OLLOW METAL DOOR AND FRAMES, INTERIOR AND				
EXTE 5. ALL IN	RIOR, SHALL BE PAINTED. ITERIOR FERROUS METAL SHALL BE PAINTED				
INCLU (DOES	NOT INCLUDE FACTORY OR PRE-FINISHED				
6. SEE I FLOOR	7 7 DRAWINGS FOR MATERIAL TRANSITIONS & PATTERN PLANS.				
7. ETR = 8. EXIST	EXISTING TO REMAIN = EXISTING				
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2 PRE-KINDERGARTEN - ROOM 114 I4.1 1/4" = 1'-0"





	14.1 - GEN	NERAL CASEWORK AND EQUIPM	IENT SCHEDULE		NEXT TO OR ON THE SAME WALL AS AN EXISTING TACK BOARD OR M BOARD MATCH EXISTING HEIGHT.
NO	DESCRIPTION	MANUFACTURER	MODEL	DIMENSIONS	
100	OPEN STUDENT WARDROBE W/(1) DOUBLE HOOK & (2) SINGLE HOOKS EACH. MODIFIED TO INCLUDE (2) FIXED SHELVES. SEE CUBBIE DETAIL.	SEE SPECIFICATIONS		15"W x 12"D x 54"H	
200	2-DOOR SINK BASE CABINET	SEE SPECIFICATIONS		36"W x 24"D x 26"H	TAKE PRECEDENCE.
301	OPEN WALL CABINET	SEE SPECIFICATIONS		33"W x 14"D x 30"H	2. ALL BASE CABINETS SHALL RECEIVE A CONTINUOUS 1-1/8" THICK SIMULATED STO
302	OPEN WALL CABINET	SEE SPECIFICATIONS		30"W x 14"D x 30"H	COUNTERTOP WITH A 4"H BACKSPLASH UNLESS NOTED OTHERWISE. THE DEPTH
700	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	10'-0"W x 4'-0"H	COUNTERTOP SHALL EXTEND 3/4" PAST THE DEPTH OF THE BASE CABINET.
702	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	7'-0"W x 4'-0"H	3. COUNTERTOPS THAT RETURN INTO A WALL(S) SHALL RECEIVE BACKSPLASH THA
703	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H	4. WHERE COLUMNS, WINDOWS OR OTHER BUILDING COMPONENTS CONFLICT WITH
705	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	3'-0"W x 4'-0"H	CASEWORK DIMENSIONAL REQUIREMENTS. FIELD VERIFY DIMENSIONS AND PRO
707	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	10'-0"W x 4'-0"H	CUSTOM UNIT TO ALLOW PROPER FITTING.
708	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 4'-0"H	5. ALL EXPOSED ENDS OF CASEWORK SHALL RECEIVE FINISHED END PANELS.
709	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H	7 ALL VISUAL DISPLAY AREAS (MARKER BOARDS AND/OR TACK BOARDS) 10'-0"W OF
710	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 2'-0"H	SHALL RECEIVE 2"H MAP RAIL THAT SPANS FROM VERTICAL EDGE TO VERTICAL E
711	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 4'-0"H	8. PROVIDE WOOD BLOCKING IN METAL STUD WALLS, PER MANUFACTURER'S
712	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	4'-0"W x 2'-0"H	RECOMMENDATIONS, TO RECEIVE THE SMART BOARD WALL BRACKET.
713	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	3'-0"W x 4'-0"H	9. IN ROOMS RECEIVING RESILIENT BASE, ADHERE TO ALL WALLS, BASE CABINET TO AND EXPOSED END DANELS, DEEED TO SPECIFICATIONS FOR LOCATION OF 4" AN
714	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	10'-0"W x 1'-0"H	10. SEE REFLECTED CEILING PLANS FOR LOCATION OF WINDOW TREATMENTS.
715	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 1'-0"H	11. STAINLESS STEEL SINKS, FAUCETS, AND BUBBLERS SHALL BE PROVIDED AND IN
716	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 1'-0"H	BY PLUMBING CONTRACTOR.
718	TACK STRIP	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	WIDTH TO FIT x 2"H	12. TELEPHONE UNITS AND SYSTEMS ARE NOT IN CONTRACT.
719	FRAMELESS MARKERBOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	19'-0"W (VIF) x 4'-0"H (VIF)	13. COORDINATE ALL LARGE SCALE PLANS WITH MECHANICAL, ELECTRICAL AND PLU
720	FRAMELESS MARKERBOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	18'-0"W (VIF) x 4'-0"H (VIF)	14. NIC = NOT IN CONTRACT
724	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	19'-0"W (VIF) x 4'-0"H (VIF)	15. WHEN DESCRIPTION AND MODEL NUMBER IN CASEWORK AND EQUIPMENT SCHE
725	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	19'-0"W (VIF) x 4'-0"H (VIF)	CONFLICT, THE DESCRIPTION TAKES PRECEDENCE.
726	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	18'-0"W (VIF) x 4'-0"H (VIF)	16. OPP = OPPOSITE HAND.
732	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	1'-0"W (VIF) x 3'-9"H (VIF)	ELEVATIONS IN INSTANCE WHERE ELOOR DI ANIELEVATIONS DO NOT CONCIDE
733	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	1'-10"W (VIF) x 3'-4"H (VIF)	PLAN LAYOUT TAKES PRECEDENCE.
734	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	1'-7"W (VIF) x 3'-9"H (VIF)	18. VISUAL DISPLAY BOARD LAYOUT AND DIMENSIONS VARY - VERIFY IN FIELD ALL
736	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	19'-0"W (VIF) x 1'-0"H (VIF)	DIMENSIONS AND LAYOUTS PRIOR TO FABRICATION OR INSTALLATION.
737	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	19'-0"W (VIF) x 1'-0"H (VIF)	19. OWNER PROVIDED, CONTRACTOR INSTALLED VISUAL DISPLAY BOARDS SHALL A
738	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	18'-0"W (VIF) x 1'-0"H (VIF)	



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3 KINDERGARTEN - ROOM 101 I4.1 1/4" = 1'-0"

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6 SINGLE STUDENT LOCKER ELEVATION - TYPICAL I4.1 1/2" = 1'-0"

PRE-K & KINDERGARTEN MOUNTING HEIGHT SCHEDU					
MARKER BOARD	2'-0" AFF TO BOTTOM EDGE				
TACK BOARD	2'-0" AFF TO BOTTOM EDGE				
BASE CABINETS	2'-2" AFF TO TOP OF COUNTERTOP				
WALL CABINETS	SEE TYPICAL SECTION DETAIL				
SMART-BOARD	CENTERED ON THE WALL				
NOTE: WHERE NEW MARKER BOARD OR TACK BOARD IS BEING MOUNT NEXT TO OR ON THE SAME WALL AS AN EXISTING TACK BOARD OR MAP BOARD MATCH EXISTING HEIGHT.					

	440 NORTH BROAD STREET PHILADELPHIA, PA 19130 - 4015 (215) 400 - 4730   (215) 400 - 4731 (fax) www.philasd.org
	SEAL:
	STERED ARCH
	REY STRAUB
	R. JEFFREY STRAUB STATE AND LICENSE NO: RA403652
	ARCHITECT
	401 E. Winding Hill Road Mechanicsburg, PA 17055 Phone: 717-458-0272
	Email: jharder@cra-architects.com Attn: Jessie Harder
	SETTY One South Street, Suite 1130 Baltimore, MD 21202
	Phone: 667-309-6036 Email: deepak.at@setty.com Attn: Deepak Ajjimane
AL	
EDULE	<u>1/22/2020</u>
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STONE TH OF THE	ELEMENTARY SCHOOL
HAT WRAPS	MAILING ADDRESS: 2300 S 2ND STREET, PHILADELPHIA, PA 19148 DEED ADDRESS: 200 WOLF ST,
ROVIDE	PHILADELPHIA, PA 19148-3345 PROJECT TITLE
OR LONGER L EDGE.	CLASSROOM MODERNIZATION
TOE KICKS, AND 6" BASE.	DRAWING TITLE
INSTALLED	LARGE SCALE LAYOUTS - PRE-K & KINDERGARTEN
PLUMBING	
HEDULE	DRAWN BY CHECKED BY
I INTERIOR DE, FLOOR	B-007C OF 2019 / 20 B-009C OF 2019 / 20
LL ALL BE	DRAWING NO.
	14.1

THE SCHOOL DISTRICT OF

OFFICE OF CAPITAL PROGRAMS

# 4 SPECIAL EDUCATION - ROOM 102 I4.3 1/4" = 1'-0"



1 THIRD GRADE - ROOM 217 I4.3 1/4" = 1'-0"

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2 THIRD GRADE - ROOM 219 I4.3 1/4" = 1'-0"



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		NOTE: NEXT BOARE	WHERE NEW MARKER BOARD OR TACH TO OR ON THE SAME WALL AS AN EXIST MATCH EXISTING HEIGHT.	TING TACK BOARD OR MARI
	14.3 - GEN	IERAL CASEWORK AND EQUI	PMENT SCHEDULE	
NO	DESCRIPTION	MANUFACTURER	MODEL	DIMENSIONS
100	OPEN STUDENT WARDROBE W/(1) DOUBLE HOOK & (2) SINGLE HOOKS EACH. MODIFIED TO INCLUDE (2) FIXED SHELVES. SEE CUBBIE DETAIL.	SEE SPECIFICATIONS		15"W x 12"D x 54"H
300	OPEN WALL CABINET	SEE SPECIFICATIONS		36"W x 14"D x 30"H
301	OPEN WALL CABINET	SEE SPECIFICATIONS		33"W x 14"D x 30"H
302	OPEN WALL CABINET	SEE SPECIFICATIONS		30"W x 14"D x 30"H
700	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	10'-0"W x 4'-0"H
703	MARKERBOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H
707	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	10'-0"W x 4'-0"H
708	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 4'-0"H
709	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 4'-0"H
713	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	3'-0"W x 4'-0"H
714	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	10'-0"W x 1'-0"H
715	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	8'-0"W x 1'-0"H
716	TACK BOARD W/ALUMINUM FRAME	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	6'-0"W x 1'-0"H
718	TACK STRIP	OWNER SUPPLIED, GC INSTALLED	SEE SPECIFICATIONS	WIDTH TO FIT x 2"H
720	FRAMELESS MARKERBOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	18'-0"W (VIF) x 4'-0"H (VIF)
721	FRAMELESS MARKERBOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	14'-0"W (VIF) x 4'-0"H (VIF)
726	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	18'-0"W (VIF) x 4'-0"H (VIF)
729	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	8'-0"W (VIF) x 4'-0"H (VIF)
731	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	5'-0"W (VIF) x 4'-0"H (VIF)
733	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	1'-10"W (VIF) x 3'-4"H (VIF)
734	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	1'-7"W (VIF) x 3'-9"H (VIF)
738	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	18'-0"W (VIF) x 1'-0"H (VIF)
739	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	16'-0"W (VIF) x 1'-0"H (VIF)
740	FRAMELESS TACK BOARD INFILL	SEE SPECIFICATIONS	SEE SPECIFICATIONS	14'-0"W (VIF) x 1'-0"H (VIF)

SEE SPECIFICATIONS

GRADE 1-3 MOUNTING HEIGHT SCHEDULE						
MARKER BOARD	2'-6" AFF TO BOTTOM EDGE					
TACK BOARD	2'-6" AFF TO BOTTOM EDGE					
BASE CABINETS	2'-6" AFF TO TOP OF COUNTERTOP					
WALL CABINETS	SEE TYPICAL SECTION DETAIL					
SMART-BOARD	CENTERED ON THE WALL					
NOTE: WHERE NEW MARKER NEXT TO OR ON THE SAME BOARD MATCH EXISTING HE	R BOARD OR TACK BOARD IS BEING MOUNT WALL AS AN EXISTING TACK BOARD OR MAF EIGHT.					

GRADE 1-3 MOUNTING HEIGHT SCHEDULE								
MARKER BOARD	2'-6" AFF TO BOTTOM EDGE							
TACK BOARD	2'-6" AFF TO BOTTOM EDGE 2'-6" AFF TO TOP OF COUNTERTOP							
BASE CABINETS								
WALL CABINETS	SEE TYPICAL SECTION DETAIL							
SMART-BOARD	CENTERED ON THE WALL							
NOTE: WHERE NEW MARKE	R BOARD OR TACK BOARD IS BEING MOL							

SEE SPECIFICATIONS



741 FRAMELESS TACK BOARD INFILL



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	440 NORTH BROAD STREET PHILADELPHIA, PA 19130 - 4015
	(215) 400 - 4730   (215) 400 - 4731 (fax) www.philasd.org
	SEAL:
-	SYLV SYLV
	THIN REY STRAUB
	~~~* <b>****</b> ****
	R. JEFFREY STRAUB STATE AND LICENSE NO: RA403652
	ARCHITECT
	CRABTREE, ROHRBAUGH & ASSOCIATES 401 E. Winding Hill Road Mechanicsburg, PA 17055
	Phone: 717-458-0272
	Attn: Jessie Harder
	MEP ENGINEERS
	SETTY One South Street, Suite 1130 Baltimore, MD 21202
	Phone: 667-309-6036
	Attn: Deepak Ajjimane
	<u>100% DESIGN SUBMISSION</u> 1/22/2020
	<u>100% DESIGN SUBMISSION</u> 1/22/2020
	100% DESIGN SUBMISSION 1/22/2020
SHT SCHEDULE	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7
SHT SCHEDULE DM EDGE	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6
SHT SCHEDULE DM EDGE DM EDGE	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5
SHT SCHEDULE DM EDGE DM EDGE DM EDGE DF COUNTERTOP TION DETAIL	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         2
OM EDGE DM EDGE DM EDGE F COUNTERTOP TION DETAIL E WALL	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2
GHT SCHEDULE OM EDGE OM EDGE F COUNTERTOP TON DETAIL E WALL BOARD IS BEING MOUNTED IG TACK BOARD OR MARKEP	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2         1         2/20/2020         ADDENDUM # 1
SHT SCHEDULE OM EDGE OM EDGE OM EDGE OF COUNTERTOP FION DETAIL E WALL SOARD IS BEING MOUNTED NG TACK BOARD OR MARKER	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2         1         1         2         1         2         1         2         1         2         1         2         1         2/20/2020         ADENDUM # 1         NO. DATE         REVISION
SHT SCHEDULE DM EDGE DM EDGE DM EDGE DF COUNTERTOP TION DETAIL E WALL BOARD IS BEING MOUNTED NG TACK BOARD OR MARKER	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2         1         1         2/20/2020         ADDENDUM # 1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD
SHT SCHEDULE DM EDGE DM EDGE DF COUNTERTOP FION DETAIL E WALL BOARD IS BEING MOUNTED NG TACK BOARD OR MARKER DIMENSIONS	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2         1         1         2/20/2020         ADDENDUM # 1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL
SHT SCHEDULE DM EDGE DM EDGE DF COUNTERTOP FION DETAIL E WALL BOARD IS BEING MOUNTED NG TACK BOARD OR MARKER DIMENSIONS 15"W x 12"D x 54"H	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2         1         2         1         2         1         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND
SHT SCHEDULE DM EDGE DM EDGE DM EDGE DF COUNTERTOP FION DETAIL E WALL BOARD IS BEING MOUNTED NG TACK BOARD OR MARKER DIMENSIONS 15"W x 12"D x 54"H 36"W x 14"D x 30"H	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2         1         2         1         NO. DATE         REVISION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST.
GHT SCHEDULE DM EDGE DM EDGE F COUNTERTOP TON DETAIL E WALL BOARD IS BEING MOUNTED NG TACK BOARD OR MARKER DIMENSIONS 15"W x 12"D x 54"H 36"W x 14"D x 30"H 33"W x 14"D x 30"H 30"W x 14"D x 30"H	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2         1         2/20/2020         ADENDUM # 1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST,         PHILADELPHIA, PA 19148-3345
SHT SCHEDULE DM EDGE DM EDGE F COUNTERTOP TON DETAIL E WALL BOARD IS BEING MOUNTED IG TACK BOARD OR MARKER DIMENSIONS I5"W x 12"D x 54"H 36"W x 14"D x 30"H 33"W x 14"D x 30"H 30"W x 14"D x 30"H 30"W x 14"D x 30"H	100% DESIGN SUBMISSION 1/22/2020         10         9         8         7         6         5         4         3         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         3         2         3         3         4         3         2         1         2/20/2020         ADDENDUM # 1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148-3345         PROJECT
SHT SCHEDULE DM EDGE DM EDGE F COUNTERTOP TON DETAIL E WALL BOARD IS BEING MOUNTED IG TACK BOARD OR MARKER DIMENSIONS ISTW x 12"D x 54"H S0"W x 14"D x 30"H 33"W x 14"D x 30"H 33"W x 14"D x 30"H 30"W x 14"D x 30"H 30"W x 14"D x 30"H 10-0"W x 4'-0"H TOULD TO TH	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2         1         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         202020         ADENDUM#1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148-3345
SHT SCHEDULE         DM EDGE         DM EDGE         F COUNTERTOP         ION DETAIL         E WALL         BOARD IS BEING MOUNTED         IG TACK BOARD OR MARKER         DIMENSIONS         IS"W x 12"D x 54"H         36"W x 14"D x 30"H         33"W x 14"D x 30"H         30"W x 44-0"H         5'-0"W x 4'-0"H         5'-0"W x 4'-0"H         5'-0"W x 4'-0"H         5'-0"W x 4'-0"H	100% DESIGN SUBMISSION 1/22/2020         10         9         8         7         6         5         4         3         2         1         2/2020         1         2/2020         1         2/2020         1         2/2020         1         2/2020         1         2/2020         1         2/2020         ADDENDUM # 1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST,         PHILADELPHIA, PA 19148-3345         PROJECT TITLE         CLASSROOM         MODERNIZATION
SHT SCHEDULE DM EDGE DM EDGE F COUNTERTOP TON DETAIL E WALL BOARD IS BEING MOUNTED NG TACK BOARD OR MARKER DIMENSIONS 15"W x 12"D x 54"H 36"W x 14"D x 30"H 33"W x 14"D x 30"H 33"W x 14"D x 30"H 33"W x 14"D x 30"H 30"W x 4'-0"H 3'-0"W x 4'-0"H 3'-0"W x 4'-0"H	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2         1         1         2/2020         ADENDUM # 1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST,         PHILADELPHIA, PA 19148-3345         PROJECT TITLE         CLASSROOM         MODERNIZATION
SHT SCHEDULE         DM EDGE         DM EDGE         F COUNTERTOP         TON DETAIL         E WALL         30ARD IS BEING MOUNTED         IG TACK BOARD OR MARKER         DIMENSIONS         15"W x 12"D x 54"H         36"W x 14"D x 30"H         30"W x 4'-0"H         5'-0"W x 4'-0"H         5'-0"W x 4'-0"H         5'-0"W x 4'-0"H         3'-0"W x 1'-0"H	100% DESIGN SUBMISSION 1/22/2020         10         9         8         7         6         5         4         3         2         1         20/2020         ADDENDUM # 1         NO.         DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST,         PHILADELPHIA, PA 19148-3345         PROJECT TITLE         CLASSROOM         MODERNIZATION
GHT SCHEDULEDM EDGEDM EDGEPF COUNTERTOPTION DETAILE WALLBOARD IS BEING MOUNTED NG TACK BOARD OR MARKERDIMENSIONS15"W x 12"D x 54"H36"W x 14"D x 30"H33"W x 14"D x 30"H33"W x 14"D x 30"H30"W x 14"D x 30"H30"W x 14"D x 30"H30"W x 4'-0"H5'-0"W x 4'-0"H5'-0"W x 4'-0"H5'-0"W x 4'-0"H3'-0"W x 1'-0"H3'-0"W x 1'-0"H3'-0"W x 1'-0"H3'-0"W x 1'-0"H3'-0"W x 1'-0"H	100% DESIGN SUBMISSION 1/22/2020         10         9         8         7         6         5         4         3         2         1         2/202020         ADDENDUM # 1         NO.         DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST,         PHILADELPHIA, PA 19148-3345         PROJECT TITLE         CLASSROOM         MODERNIZATION
SHT SCHEDULE         DM EDGE         DM EDGE         DF COUNTERTOP         TION DETAIL         E WALL         30ARD IS BEING MOUNTED         NG TACK BOARD OR MARKER         DIMENSIONS         15"W x 12"D x 54"H         36"W x 14"D x 30"H         30"W x 14"D x 30"H         10-0"W x 4'-0"H         30"W x 4'-0"H         3'-0"W x 1'-0"H         Y-0"W x 1'-0"H	100% DESIGN SUBMISSION         1/22/2020         10         9         8         7         6         5         4         3         2         1         2/202020         4         3         2         1         2/20/2020         ADENDUM # 1         NO.         DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST,         PHILADELPHIA, PA 19148-3345         PROJECT TITLE         CLASSROOM         MODERNIZATION         DRAWING TITLE         LARGE SCALE LAYOUTS -         HIRD GRADE & SPECIAL         EDUCATION
$3HT$ SCHEDULE $2M$ EDGE $2M$ EDGE $F$ COUNTERTOP $1ON$ DETAIL $E$ WALL $3OARD$ IS BEING MOUNTED $IG$ TACK BOARD OR MARKER $ION$ DETAIL $E$ WALL $3OARD$ IS BEING MOUNTED $IG$ TACK BOARD OR MARKER $ISTW \times 12"D \times 54"H$ $36"W \times 14"D \times 30"H$ $30"W \times 4'-0"H$ $0'-0"W \times 1'-0"H$	100% DESIGN SUBMISSION 1/22/2020         10         9         8         7         6         5         4         3         2         1         20/2020         ADDENDUM # 1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST, PHILADELPHIA, PA 19148-3345         PROJECT TITLE         CLASSROOM MODERNIZATION         DRAWING TITLE         LARGE SCALE LAYOUTS - THIRD GRADE & SPECIAL EDUCATION         LOCATION NO.       FILE NO.
HT SCHEDULE         M EDGE         M EDGE         COUNTERTOP         ION DETAIL         WALL         OARD IS BEING MOUNTED         G TACK BOARD OR MARKER         DIMENSIONS         5"W x 12"D x 54"H         6"W x 14"D x 30"H         0"W x 4'-0"H         '-0"W x 4'-0"H         '0-0"W x 1'-0"H         '0-0"W x 1'-0"H         '0-0"W (VIF) x 4'-0"H (VIF)         '4-0"W (VIF) x 4'-0"H (VIF)         '0-0"W (VIF) x 4'-0"H (VIF)	100% DESIGN SUBMISSION 1/22/2020         10         9         8         7         6         5         4         3         2         1         2/20/2020         ADDENDUM # 1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST,         PHILADELPHIA, PA 19148-3345         PROJECT TITLE         CLASSROOM         MODERNIZATION         DRAWING TITLE         LARGE SCALE LAYOUTS -         THIRD GRADE & SPECIAL         EDUCATION         IOCATION NO.         ILOCATION NO.         CHECKED BY
HT SCHEDULE         M EDGE         M EDGE         COUNTERTOP         ION DETAIL         WALL         OARD IS BEING MOUNTED         G TACK BOARD OR MARKER         DIMENSIONS         5"W x 12"D x 54"H         6"W x 14"D x 30"H         3"W x 14"D x 30"H         0"W x 14"D x 30"H         0"W x 4'-0"H         '-0"W x 1'-0"H         '-0"W x 1'-0"H         'DITH TO FIT x 2"H         8'-0"W (VIF) x 4'-0"H (VIF)         4'-0"W (VIF) x 4'-0"H (VIF)         '-0"W (VIF) x 4'-0"H (VIF)         '-0"W (VIF) x 4'-0"H (VIF)         '-0"W (VIF) x 4'-0"H (VIF)	100% DESIGN SUBMISSION 1/22/2020         10         9         8         7         6         5         4         3         2         1         1         202020         A         3         2         1         1         2202020         A         3         2         1         1         2202020         ADENDUM#1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST,         PHILADELPHIA, PA 19148-3345         PROJECT TITLE         CLASSROOM         MODERNIZATION         DRAWING TITLE         LARGE SCALE LAYOUTS -         HIRD GRADE & SPECIAL         EDUCATION         LOCATION NO.       FILE NO.         DRAWIN BY       CHECKED BY
HT SCHEDULE         M EDGE         M EDGE         M EDGE         COUNTERTOP         ION DETAIL         WALL         OARD IS BEING MOUNTED         G TACK BOARD OR MARKER         DIMENSIONS         5"W x 12"D x 54"H         6"W x 14"D x 30"H         0"W x 4'-0"H         '0-0"W x 1'-0"H         '0-0"W (VIF) x 4'-0"H (VIF)         '-0"W (VIF) x 4'-0"H (VIF)         '0-0"W (VIF) x 4'-0"H (VIF)         '0-0"W (VIF) x 4'-0"H (VIF)         '0-0"W (VIF) x 4'-0"H (VIF)         '0"W (VIF) x 4'-0"H (VIF)	100% DESIGN SUBMISSION 1/22/2020         10         9         8         7         6         5         4         3         2         1         2/20/2020         ADDENDUM # 1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DEED ADDRESS: 200 WOLF ST, PHILADELPHIA, PA 19148-3345         PROJECT TITLE         CLASSROOM MODERNIZATION         DRAWING TITLE         LARGE SCALE LAYOUTS - THIRD GRADE & SPECIAL EDUCATION         LOCATION NO.       FILE NO.         DRAWING TITLE         LOCATION NO.       FILE NO.         DRAWN BY       CHECKED BY
SHT SCHEDULE         DM EDGE         DM EDGE         POM EDGE         F COUNTERTOP         TION DETAIL         E WALL         30ARD IS BEING MOUNTED         NG TACK BOARD OR MARKER         BOIMENSIONS         15"W x 12"D x 54"H         36"W x 14"D x 30"H         30"W x 4'-0"H         10-0"W x 4'-0"H         3'-0"W x 4'-0"H         10'-0"W x 4'-0"H         3'-0"W x 4'-0"H         10'-0"W x 4'-0"H         10'-0"W x 4'-0"H         10'-0"W x 4'-0"H         10'-0"W x 1'-0"H         3'-0"W (VIF) x 4'-0"H (VIF)         14'-0"W (VIF) x 4'-0"H (VIF)         18'-0"W (VIF) x 4'-0"H (VIF)         1'-10"W (VIF) x 3'-4"H (VIF)         1'-0"W (VIF) x 3'-4"H (VIF)         1'-0"W (VIF) x	100% DESIGN SUBMISSION 1/22/2020         10         9         8         7         6         5         4         3         2         1         202020         ADENDUM # 1         NO. DATE         REVISION         SCHOOL & LOCATION         GEORGE SHARSWOOD         ELEMENTARY SCHOOL         MAILING ADDRESS: 2300 S 2ND         STREET, PHILADELPHIA, PA 19148         DECD ADDRESS: 200 WOLF ST,         PHILADELPHIA, PA 19148-3345         PROJECT TITLE         CLASSROOM         MODERNIZATION         DRAWING TITLE         LARGE SCALE LAYOUTS -         HIRD GRADE & SPECIAL         EDUCATION         LOCATION NO.         LOCATION NO.         DRAWING WBY         CHECKED BY         B-007C       OF         2019 / 20         B-007C       OF         2019 / 20











3 ALCOVE CUBBIE SECTION DETAIL - TYPICAL I4.5 1/2" = 1'-0"





T SECONDARY TEACHING WALL - ROOM 223 I4.5 1/4" = 1'-0"

	PRE-K & KINDERGARTEN MOUNTING HEIGHT SCHEDUL								
	MARKER BOARD	2'-0" AFF TO BOTTOM EDGE							
	TACK BOARD	2'-0" AFF TO BOTTOM EDGE							
	BASE CABINETS	2'-2" AFF TO TOP OF COUNTERTOP							
	WALL CABINETS	SEE TYPICAL SECTION DETAIL							
	SMART-BOARD	CENTERED ON THE WALL							
	NOTE: WHERE NEW MARKER BOARD OR TACK BOARD IS BEING MOUN NEXT TO OR ON THE SAME WALL AS AN EXISTING TACK BOARD OR M BOARD MATCH EXISTING HEIGHT.								
ſ									
	GRADE 1-3 MOUNTING HEIGHT SCHEDULE								
	MARKER BOARD	2'-6" AFF TO BOTTOM EDGE							
	TACK BOARD	2'-6" AFF TO BOTTOM EDGE							
	BASE CABINETS	2'-6" AFF TO TOP OF COUNTERTOP							
	WALL CABINETS	SEE TYPICAL SECTION DETAIL							
	SMART-BOARD	CENTERED ON THE WALL							
	NOTE: WHERE NEW MARKER BOARD OR TACK BOARD IS BEING MOUN NEXT TO OR ON THE SAME WALL AS AN EXISTING TACK BOARD OR MA BOARD MATCH EXISTING HEIGHT.								
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4 NEW WOOD WALL CABINET & COAT HOOK DETAIL

5 WOOD WALL CABINET & EXISTING 3-TIER SHELF DETAIL I4.5 1" = 1'-0"

	THE SCHOOL DISTRICT OF
	OFFICE OF CAPITAL PROGRAMS
	440 NORTH BROAD STREET PHILADELPHIA, PA 19130 - 4015 (215) 400 - 4730   (215) 400 - 4731 (fax) www.philasd.org
	SEAL:
	THEY STRAID
	R. JEFFREY STRAUB STATE AND LICENSE NO: RA403652
	ARCHITECT CRABTREE, ROHRBAUGH & ASSOCIATES 401 E. Winding Hill Road Mechanicsburg, PA 17055 Phone: 717-458-0272 Email: jharder@cra-architects.com Attn: Jessie Harder
	MEP ENGINEERS         SETTY         One South Street, Suite 1130         Baltimore, MD 21202         Phone: 667-309-6036         Email: deepak.at@setty.com         Attn: Deepak Aiimane
	Atin: Deepak Ajimane
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	<u>100% DESIGN SUBMISSION</u> <u>1/22/2020</u>
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	2         1         2/20/2020         ADDENDUM # 1           NO.         DATE         REVISION
	SCHOOL & LOCATION GEORGE SHARSWOOD ELEMENTARY SCHOOL
	MAILING ADDRESS: 2300 S 2ND STREET, PHILADELPHIA, PA 19148 DEED ADDRESS: 200 WOLF ST, PHILADELPHIA, PA 19148-3345
	PROJECT TITLE CLASSROOM MODERNIZATION
	DRAWING TITLE
	CONT.) & CASEWORK         DETAILS         LOCATION NO.         FILE NO.         DRAWN BY
	B-007C OF 2019 / 20 B-009C OF 2019 / 20 DRAWING NO
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1 ELECTRICAL FIRST FLOOR POWER PLAN E2.1 1/8" = 1'-0"

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ELECTRICAL F POWER AND T PLAN	IRST FLOOR ECHNOLOGY					
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drawing no.						
SHEET	OF 19					

## CLASSROOM MODERNIZATION

PROJECT TITLE

2300 S 2ND STREET, PHILADELPHIA, PA 19148

## SCHOOL & LOCATION GEORGE SHARSWOOD ELEMENTARY SCHOOL

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1	02/20/2020	ADDENDUM #1
NO.	DATE	REVISION

100% DESIGN SUBMISSION <u>1/22/2020</u>

575 South Charles Street, Suite 403 Baltimore, MD 21201 Phone: 667-309-6036 Email: deepak.at@setty.com Attn: Deepak Ajjimane

MEP ENGINEERS

Email: jharder@cra-architects.com Attn: Jessie Harder

ARCHITECT CRABTREE, ROHRBAUGH & ASSOCIATES 401 E. Winding Hill Road Mechanicsburg, PA 17055 Phone: 717-458-0272

Conrad dela Cruz State and license no: pe089048

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THE SCHOOL DISTRICT OF PHILA DELPHIA



1ELECTRICAL SECOND FLOOR POWER PLANE2.21/8" = 1'-0"

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ELECTRICAL S FLOOR POWE TECHNOLOG	Second Er and Y Plan
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## PROJECT TITLE CLASSROOM MODERNIZATION

2300 S 2ND STREET, PHILADELPHIA, PA 19148

### SCHOOL & LOCATION GEORGE SHARSWOOD ELEMENTARY SCHOOL

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1	02/20/2020	ADDENDUM #1
NO.	DATE	REVISION

100% DESIGN SUBMISSION <u>1/22/2020</u>

575 South Charles Street, Suite 403 Baltimore, MD 21201 Phone: 667-309-6036 Email: deepak.at@setty.com Attn: Deepak Ajjimane

Email: jharder@cra-architects.com Attn: Jessie Harder

MEP ENGINEERS

SETTY

<u>ARCHITECT</u> CRABTREE, ROHRBAUGH & ASSOCIATES 401 E. Winding Hill Road Mechanicsburg, PA 17055 Phone: 717-458-0272

Conrad Dela Cruz State and License No: Pe089048

www.philasd.org SEAL:

THE SCHOOL DISTRICT OF PHILA DELPHIA OFFICE OF CAPITAL PROGRAMS

440 NORTH BROAD STREET PHILADELPHIA, PA 19130 - 4015 (215) 400 - 4730 | (215) 400 - 4731 (fax)

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LOCATION: 1ST FLO MOUNTING: Semi R MAIN DEVICE: 200 A BUS AMPS:	OR CORF Recessed MLO	RIDOR C d Type 1	A.I.	Volt C. RA SPE	TAGE: TING: CIAL:	240/12 10K	20 V. 1	ø 3 W	Ι.				LOCATION: 1ST FLO MOUNTING: Semi R MAIN DEVICE: 200 A N BUS AMPS:	OR CORI ecessed //LO	RIDOR B d Type 1
LOAD DESCRIPTION	BKR	POLES	скт	PHA k'	SE A VA	PHA: kV	SE B ⁄A	скт	POLES	BKR	LOAD DESCRIPTION		LOAD DESCRIPTION	BKR	POLES
PRINC TOILET RM (E)	20 A	1	1	0.6	0.6			2	1	20 A	MAIN OFF (E)	ł	TEACHERS RM REC (E)	20 A	1
PRINC OFFICE (E)	20 A	1	3			0.6	~Q.Z~	4	-1	20 A	REG CLASSROOM 108	ľ	TEACHERS RM LGTS (E)	20 A	1
RM 118 LGTS (E)	20 A	1	5	0.4	0.0			6	1	20 A	SPARE	3 [	LGTS CLASSROOM 105	20 A	1
HALLWAY LGTS (E)	20 A	1	7		$\mathcal{P}$	0.6	-0.6	~ <b>8</b> ^	M	^20 A	MAIN OFF REC (E)		LGTS CLASSROOM 106	20 A	1
EXISTING LOAD	20 A	1	9	0.4	0.8			10	1	20 A	MAIN OFF COPIER (E) 1	N	GFI REC WATER COOLER	20 A	1
EXISTING LOAD	20 A	1	11			0.6	0.6	12	1	20 A	EXISTING LOAD		EXISTING LOAD	20 A	1
	00.4	0	13	1.2	1.2			14	0	00.4		Ī	EXISTING LOAD	20 A	1
A/C RM 108 (E)	20 A	2	15			1.2	1.2	16	- 2	20 A	EXISTING LOAD	ľ	EXISTING LOAD	20 A	1
REC LAPTOP CHARGING	20 A	1	17	0.2	0.5			18	1	20 A	LTGS CLASSROOM 114	ľ	REC CLASSROOM 105	20 A	1
REC CLASSROOM 108	20 A	1	19			0.7	1.1	20	1	20 A	REC CLASSROOM 109	Ī	REC LAPTOP CHARGING	20 A	1
REC CLASSROOM 109	20 A	1	21	0.7	0.2			22	1	20 A	<b>REC LAPTOP CHARGING</b>	Ī	REC CLASSROOM 106	20 A	1
SPARE	20 A	1	23			0.0	0.5	24	1	20 A	LTGS CLASSROOM 108	Į	REC LAPTOP CHARGING.	_20-A_	-1
LGTS CLASSROOM 109	20 A	1	25	0.5	0.2			26	1	20 A	REC LAPTOP CHARGING	5	SPARE	20 A	1
REC CLASSROOM 114	20 A	1	27		~~~	0.7	~0,2~	28	-1	~20 A~	GFI REG WATER COOLER		REC CLASSROOM 107	20 A	$r_1$
REC CLASSROOM 114	20 A	1	29	0.7	0.0			30	1	20 A	SPARE	3 [	SPARE	20 A	1
		TOTAL L	OAD:	91	KYA -	7-114	έ¥Ά∽						1		TOTAL
		<b>S:</b> 78 A 88 A				1						TOTAL			
LOAD CLASSIFICATION	CON	NECTED	D	DEMAND		ESTI	MATE	כ		PA	NEL TOTALS		LOAD CLASSIFICATION	CONNECTED	
Lighting	14	99 VA	1	25.00	%	187	'4 VA						Lighting	14	469 VA
									CC	DNNEC	<b>TED LOAD:</b> 21699 VA				
									EST	MATE	<b>DEMAND:</b> 22074 VA				
									CONN	ECTED	CURRENT: 90 A				
									EST. DE	MAND	CURRENT: 92 A				

PANELBOARD: C2 (N)								PANELBOARD: B2 (N)										PANELBOARD: A2 (N)													
LOCATION: 2ND FLOOR CORRIDOR CVOLTAGE: 240/120 V. 1 ø 3 W.MOUNTING: Semi Recessed Type 1A.I.C. RATING: 10KMAIN DEVICE: 200 A MLOSPECIAL:BUS AMPS:SPECIAL:							LOCATION: 2ND FLOOR CORRIDOR B VOLTAGE: 240/120 V. 1 ø 3 W. MOUNTING: Semi Recessed Type 1 MAIN DEVICE: 200 A MLO SPECIAL: BUS AMPS:									LOCATION: 2ND FLOOR CORRIDOR A VOLTAGE: 240/120 V. 1 ø 3 W. MOUNTING: Semi Recessed Type 1 MAIN DEVICE: 200 A MLO BUS AMPS: SPECIAL:															
LOAD DESCRIPTION	BKR	POLES	F CKT	PHASE A kVA	PHASE B kVA	CKT P	OLES B	KR LOAD	DESCRIPTION	LOAD DESCRIPTION	BKR	POLES	скт	PHASE A kVA	A PH/ k	IASE B kVA	скт	POLES	BKR	LOAD DE	SCRIPTION	LOAD DESCRIPTION	BKR	POLE	s скт	PHASE A kVA	PHASE E kVA	3 скт	POLES	BKR	LOAD DESCR
REC CLASSROOM 228	20 A	1	1 0	.7 0.2		2	1 20	A REC LAP	OP CHARGING	STAFF REST RM LGTS (E)	20 A	1	1	0.6 0.6	;		2	1	20 A	STAFF RM LC	GTS (E)	LGTS CLASSROOM 217	20 A	1	1	0.4 0.6		2	1	20 A LIBF	RARY LGTS (E
RM 222 LGTS (E)	20 A	1	3		0.6 0.7	′ 4	1 20	A REC CLA	SSROOM 228	LGTS CLASSROOM 219	20 A	1	3		0.5	5 0.6	4	1	20 A	AUDITORIUM	LGTS (E)	LIBRARY OFF. LGTS (E)	20 A	1	3		0.6 0.6	ð 4	1	20 A CAE	BLE TV (E)
RM 224 LGTS (E)	20 A	1	5 0	.6 0.2		6	1 20	A REC CLA	SSROOM 228	HALL LGTS (E)	20 A	1	5	0.4 0.4	•		6	1	20 A	AUDITORIUM	LGTS (E)	STORE RM LGTS (E)	20 A	1	5	0.6 0.6		6	1	20 A LIBF	RARY LGS (E)
REC CLASSROOM 223	20 A	1	7		0.7 0.2	2 8	1 20	A REC LAP	OP CHARGING		20.4	2	7		1.2	2 0.6	8	1	20 A	DED. EQUIP.	LOUNGE (E)	HALLWAY LGTS (E)	20 A	1	7		0.6 0.6	3 8	1	20 A REC	IMC OFF (E)
STAGE LGTS (E)	20 A	1	9 0	.6 0.6		10	1 20	A EXISTING	LOAD	AVC (E)	20 A	2	9	1.2 0.6	;		10	1	20 A	DED. EQUIP.	LOUNGE (E)		20.4	2	9	1.2 2.4		10	2		
DEDICATED DATA RM (E)	20 A	1	11		0.6 0.6	5 12	1 20	A EXISTING	LOAD	EXISTING LOAD	20 A	1	11		0.6	6 0.6	12	2	20.4			A/C RIGHT SIDE (E)	20 A	2	11		1.2 2.4	4 12	2	40 A A/C	
DEDICATED DATA RM (E)	20 A	1	13 0	.6 1.2		14	2 20				30 4	2	13	1.8 1.2	2		14	2	20 A	EXISTING LO	AD	<b>REC CLASSROOM 217</b>	20 A	1	13	0.7 0.2		14	1	20 A REC	CLAPTOP CH
EXISTING LOAD	20 A	1	15		0.6 1.2	2 16	2 20		LOAD		30 A	2	15		1.8	3 0.6	16	1	20 A	EXISTING LO	AD	REC CLASSROOM 217	20 A	1	15		0.7 0.0	J 16	1	20 A SPA	RE
REC CLASSROOM 223	20 A	1	17 0	.7 0.5		18	1 20	DA LGTS CLA	ASSROOM 223	REC-CLASSROOM 219	~~20 A,		$\gamma$ 17 $\gamma$	0,7-0.7	$\sim$		18	1	20 A	REC CLASSE	ROOM 219	SPARE	20 A	1	17	0.0 0.0		18	1	20 A SPA	RE
LGTS CLASSROOM 228	20 A	1	19		0.5 0.0	20	1 20	A SPARE			20 A	1	19		0.0	) /0.2	20	1	20 A	REC CLASSE	ROOM 219	BUSSED SPACE			19		0.0 0.0	) 20		BUS	SED SPACE
SPARE	20 A	1	21 0	.0 0.0		22	1 20	A SPARE	1	SPARE	1-20A	m	1211	0.0 0.0	nn	$\mathcal{N}$	22	1	20 A	SPARE		BUSSED SPACE			21	0.0 0.0		22		BUS	SED SPACE
SPARE	20 A	1	23		0.0 0.0	24	1 20	A SPARE		SPARE	20 A	1	23		0.0	0.0	24	1	20 A	SPARE		BUSSED SPACE			23		0.0 0.0	) 24		BUS	SED SPACE
		TOTAL L	OAD:	6 kVA	7 kVA							TOTAL L	LOAD:	9 kVA	7	′ kVA								TOTAL	L LOAD:	8 kVA	7 kVA				
		TOTAL A	MPS:	49 A	57 A							TOTAL A	AMPS:	74 A	6	60 A								TOTAL	L AMPS:	66 A	56 A				
LOAD CLASSIFICATION	CON	NECTED	DEN	IAND	ESTIMAT	ED		PANEL TOTA	LS	LOAD CLASSIFICATION	CON	NECTED		DEMAND	EST	TIMATED	)		P/	ANEL TOTALS		LOAD CLASSIFICATION	CON	INECTER	D DE	MAND	ESTIMAT	ED		PANEL	TOTALS
Lighting	91	8 VA	125	5.00%	1148 V/	4				Lighting	4	59 VA	1	125.00%	5	574 VA						Lighting	3	,67 VA	12	25.00%	459 V <i>A</i>	<u>+</u>			
							CONN	IECTED LOAD	14538 VA									С	ONNEC	CTED LOAD: 19	9079 VA	-							C(	ONNECTED	LOAD: 19387
							ESTIMA	TED DEMAND	14768 VA									EST	TIMATE	D DEMAND: 19	9194 VA	-							EST	IMATED DEN	MAND: 19479
							CONNECT	ED CURRENT	61 A									CONN	NECTED	D CURRENT: 79	A								CONN	ECTED CUR	RENT: 81 A
						E	ST. DEMA	ND CURRENT	62 A									EST. D	EMAND	D CURRENT: 80	) A								EST. DF	EMAND CUR	<b>RENT:</b> 81 A
			_												_							_	_								
NOTES:										NOTES:												NOTES:									

		4				5			6		7				8		
	PANEL	BOARD	: C (N)				PANEL	BOARD: B	(N)			PANE	LBOARD	): A (N)			PHILADELPH
LOCATION: 1ST MOUNTING: Ser MAIN DEVICE: 200	FLOOR CORRIDOR C ni Recessed Type 1 A MLO	VOLTAGE A.I.C. RATING SPECIAL	:: 240/120 V. 1 ø 3 :: 10K ::	W.		LOCATION: 1ST I MOUNTING: Sen MAIN DEVICE: 200	LOOR CORRIDOR B i <b>Recessed Type 1</b> A MLO	VOLTAGE: 240/1 A.I.C. RATING: 10K SPECIAL:	20 V. 1 ø 3 W.		LOCATION: 1ST MOUNTING: Se MAIN DEVICE: 200	FLOOR CORRIDOR A mi Recessed Type 1 0 A MLO	VOLTAG A.I.C. RATINO SPECIA	E: 240/120 V. 1 G: 10K L:	ø 3 W.		OFFICE OF CAPITAL PROGRAMS
BUS AMPS:		PHASE A	PHASE B			BUS AMPS:		PHASE A PHA	ASE B		BUS AMPS:		PHASE	A PHASE B			440 NORTH BROAD STREET PHILADELPHIA, PA 19130 - 4015
LOAD DESCRIPTION	BKR POLES	CKT kVA	kVA CK	T POLES BKR	LOAD DESCRIPTION	LOAD DESCRIPTION	BKR POLES	CKT kVA k		BKR LOAD DESCRIPTIO	N LOAD DESCRIPTION	BKR POLES	CKT kVA	kVA	CKT POLES BKR LOAD DESC	CRIPTION	(215) 400 - 4730   (215) 400 - 4731 (fax)
PRINC TOILET RM (E)	20 A 1	1 0.6 0.6	2	1 20 A MA	IN OFF (E)	TEACHERS RM REC (E)	20 A 1	1 0.6 0.6	2 1	20 A NURSES OFFICE REC (	E) STORE RM REC (E)	20 A 1	1 0.6 0.6	3	2 1 20 A LIBRARY REC (	E)	www.philasd.org
PRINC OFFICE (E)	20 A 1	3	0.6 0.7 4	1, 20 A RE	CLASSROOM-108	TEACHERS RM LGTS (E)	20 A 1	3 0.6	0.6 4 1	20 A NURSES OFFICE LGTS	(E) LGTS CLASSROOM 101	20 A 1	3	0.4 0.4	4 1 20 A LGTS CLASSR	OOM 102	
RM 118 LGTS (E)	20 A 1	5 0.4 0.0	6	1 20 A SP	ARE	LGTS CLASSROOM 105	20 A 1	5 0.5 0.6	6 1	20 A HALLWAY LGTS (E)	HALL LIGHTS (E)	20 A 1	5 0.6 0.4	1	6 1 20 A LGTS CLASSR	OOM 103	SEAL.
HALLWAY LGTS (E)	20 A 1	7	0.6 0.6 8	1 20 A MA	IN OFF REC(E)	LGTS CLASSROOM 106	20 A 1	7 0.5	0.5 8 1	20 A LGTS CLASSROOM 10	EXISTING LOAD	20 A 1	7	0.6 0.6	8 1 20 A EXISTING LOAD	C	
EXISTING LOAD	20 A 1	9 0.4 0.8	10	0 1 20 A MA	IN OFF COPIER (E)	GFI REC WATER COOLEI	R 20 A 1	9 0.2 1.2	10			20 A 1	9 0.6 0.6	3	10 1 20 A EXISTING LOAD	C	ADDIERO
EXISTING LOAD	20 A 1	11	0.6 0.6 12	2 1 20 A EXI	STING LOAD	EXISTING LOAD	20 A 1	11 0.6	1.2 12 2	20 A A/C NURSES OFFICE (E	EXISTING LOAD	20 A 1	11	0.6 0.6	12 1 20 A EXISTING LOAD	C	SONWEALT
		13 1.2 1.2	14	1 <u> </u>		EXISTING LOAD	20 A 1	13 0.6 0.6	14 1	20 A EXISTING LOAD	REC CLASSROOM 101	20 A 1	13 0.7 0.7	7	14 1 20 A REC CLASSRO	OM 101	S.M.
A/C RM 108 (E)	20 A 2	15	1.2 1.2 16	2   20 A   EXI	STING LOAD	EXISTING LOAD	20 A 1	15 0.6	0.6 16 1	20 A EXISTING LOAD	REC LAPTOP CHARGIN	G 20 A 1	15	0.2 1.1	16 1 20 A REC CLASSRO	OM 102	REGISTERED
<b>REC LAPTOP CHARGING</b>	20 A 1	17 0.2 0.5	18	3 1 20 A <b>LT</b>	GS CLASSROOM 114	REC CLASSROOM 105	20 A 1	17 0.7 0.7	18 1	20 A REC CLASSROOM 105	REC LAPTOP CHARGIN	<b>G</b> 20 A 1	17 0.2 0.7	7	18 1 20 A REC CLASSRO	OM 102	80 Theoreman V V
<b>REC CLASSROOM 108</b>	20 A 1	19	0.7 1.1 20	0 1 20 A <b>RE</b>	C CLASSROOM 109	REC LAPTOP CHARGING	20 A 1	19 0.2	0,7 20, 1,	20 A REC CLASSROOM 106	REC CLASSROOM 103	20 A 1	19	0.7 0.2	20 1 20 A <b>REC LAPTOP C</b>	CHARGING	8 10 Martin David
<b>REC CLASSROOM 109</b>	20 A 1	21 0.7 0.2	22	2 1 20 A <b>RE</b>	C LAPTOP CHARGING	REC CLASSROOM 106	20 A 1	21 0.7 0.0	22 1	20 A SPARE		20 A 1	21 0.7 0.0	)	22 1 20 A SPARE		CONRADO D. DELA URUZ
SPARE	20 A 1	23	0.0 0.5 24	1 1 20 A <b>LT</b>	GS CLASSROOM 108	REC LAPTOP CHARGING		23 0.2	0.7 24	20 A REC CLASSROOM 107	SPARE	20 A 1	23	0.0 0.0	24 1 20 A SPARE		8 11 8
LGTS CLASSROOM 109	20 A 1	25 0.5 0.2	26	6 1 20 A <b>RE</b>	C LAPTOP CHARGING		20 A 1	25 0.0 )0.2	26 1	20 A REC LAPTOP CHARGIN	IG	TOTAL	LOAD: 8 kVA	6 kVA			ENGINEER
<b>REC CLASSROOM 114</b>	20 A 1	27	0.7 0,2 28	3 1 20 A GF	REG WATER COOLER.	REC CLASSROOM 107		27 0.7	0.0 28 1	20 A SPARE		TOTAL	<b>AMPS:</b> 64 A	54 A			No. PEDRAMO
<b>REC CLASSROOM 114</b>	20 A 1	29 0.7 0.0	30	0 1 20 A <b>SP</b>	ARE	SPARE	20 A 1	29 0.0 0.0	30 1	20 A SPARE		CONNECTED	DEMAND	ESTIMATE	D PANEL TOTALS		A.C.
	TOTAL L		TTKVA			1	TOTAL LO	<b>DAD:</b> 7 kVA 8	kVA		Lighting	1102 VA	125.00%	1377 VA			SYL
	TOTAL A	AMPS: 78 A	88 A		1		TOTAL AI	MPS: 60 A 6	4 A						CONNECTED LOAD: 1592	22 VA	Conner
LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL	TOTALS	LOAD CLASSIFICATION	CONNECTED	DEMAND EST	IMATED	PANEL TOTALS					ESTIMATED DEMAND: 1619	97 VA	
Lighting	1499 VA	125.00%	1874 VA			Lighting	1469 VA	125.00% 18	36 VA						CONNECTED CURRENT: 66 A	\	CONRAD DELA CRUZ
				CONNECTED	LOAD: 21699 VA				C	CONNECTED LOAD: 14909 VA					EST. DEMAND CURRENT: 67 A	\	STATE AND LICENSE NO: PE089048
				ESTIMATED DE	MAND: 22074 VA				ES	TIMATED DEMAND: 15276 VA							
				CONNECTED CUR	<b>RRENT:</b> 90 A				CON	NECTED CURRENT: 62 A							
				EST. DEMAND CUR	RRENT: 92 A				EST. D	EMAND CURRENT: 64 A	NOTES:						
																	ADCHITECT

LOCATION: 2ND FL MOUNTING: Semi F MAIN DEVICE: 200 A BUS AMPS:	OOR COR <b>Recessed</b> MLO	RIDOR D d Type 1	A.I.	Vol <sup>-</sup> C. Ra Spe	TAGE: ATING: ECIAL:	240/1 10K	20 V. 1	ø 3 W				
				PHA	SE A	PHA	SE B					
LOAD DESCRIPTION	BKR	POLES	СКТ	k	VA	k۱	VA	СКТ	POLES	BKR	LOAD	DESCF
RM 227 REC (E)	20 A	1	1	0.6	0.4			2	1	20 A	LGTS CLA	SSRO
RM 227 LGTS (E)	20 A	1	3			0.6	1.2	4	2	20 4	EXISTING	
RM 226 LGTS (E)	20 A	1	5	0.6	1.2			6	2	20 7		
EXISTING LOAD	20 A	1	7			0.0	1.2	8	2	20 4	EVISTING	
A/C BM 326 (E)	20.4	2	9	1.2	1.2			10	2	20 A	EXISTING	LUAD
A/C RM 228 (E)	20 A	2	11			1.2	0.6	12	1	20 A	EXISTING	LOAD
REC CLASSROOM 225	20 A	1	13	0.7	1.1			14	1	20 A	REC CLAS	SROO
REC LAPTOP CHARGER	20 A	1	15			0.2	0.0	16	1	20 A	SPARE	
SPARE	20 A	1	17	0.0	0.0			18	1	20 A	SPARE	
		TOTAL I	OAD:	8	kVA	5 k	νA					
		TOTAL A	AMPS:	6	3 A	42	2 A					
LOAD CLASSIFICATION	CON	NECTED	D	EMA	ND	ESTI	MATE	D		PA	NEL TOTAL	.S
Lighting	36	67 VA	1	25.00	%	45	59 VA					
									C	ONNEC	TED LOAD:	16147
									EST	IMATE	DEMAND:	16239
									CONN	ECTED	CURRENT:	67 A
									EST. DE	MAND	CURRENT:	68 A
NOTES:	1											

OR CORF	<b>RIDOR A</b>	ВU	VOLTAGE:	<b>A</b> ( 240/12	<b>IN)</b> 20 V. 1	ø 3 W	Ι.			
ecessed MLO	d Type 1	A.I.(	C. RATING: SPECIAL:	10K						OFFICE OF CAPITAL PROGRAMS
			PHASE A	ΡΗΔ	SFB					440 NORTH BROAD STREET PHILADELPHIA, PA 19130 - 4015
<b>BKR</b> 20 A	POLES	<b>СКТ</b> 1	<b>kVA</b> 0.6 0.6	k\	VA	<b>СКТ</b> 2	POLES	<b>BKR</b> 20 A	LOAD DESCRIPTION LIBRARY REC (E)	(215) 400 - 4730   (215) 400 - 4731 (fax) www.philasd.org
20 A 20 A	1 1	3 5	0.6 0.4	0.4	0.4	4	1 1	20 A 20 A	LGTS CLASSROOM 102 LGTS CLASSROOM 103	SFAL:
20 A 20 A	1 1	7 9	0.6 0.6	0.6	0.6	8 10	1 1	20 A 20 A	EXISTING LOAD EXISTING LOAD	ACCOUNT OF A
20 A 20 A	1 1	11 13	0.7 0.7	0.6	0.6	12 14	1 1	20 A 20 A	EXISTING LOAD REC CLASSROOM 101	NMONWEAL A
20 A 20 A	1 1	15 17	0.2 0.7	0.2	1.1	16 18	1 1	20 A 20 A	REC CLASSROOM 102 REC CLASSROOM 102	C REGISTERED
20 A 20 A	1 1	19 21	0.7 0.0	0.7	0.2	20 22	1 1	20 A 20 A	REC LAPTOP CHARGING SPARE	CONRADO D. DELA CRUZ
20 A	1 TOTAL LO	23 <b>DAD:</b>	8 kVA	0.0 6 k	0.0 (VA	24	1	20 A	SPARE	ENGINEER
CON	TOTAL AI	MPS: Di	64 A EMAND	54 ESTI	1 A I <b>mate</b> i	D		PA	NEL TOTALS	
11	02 VA	1:	25.00%	13	77 VA		C	ONNEC	<b>TED LOAD:</b> 15922 VA	CONTRACTOR OF
									<b>DEMAND:</b> 16197 VA <b>CURRENT:</b> 66 A	CONRAD DELA CRUZ
							EST. DE	MAND	CURRENT: 67 A	STATE AND LICENSE NO: PE089048
P/ DOR COR ecessed MLO BKR	ANEL RIDOR A d Type 1 POLES	<b>ВО</b> А.І.( скт	PARD: VOLTAGE: C. RATING: SPECIAL: PHASE A KVA	<b>A2</b> 240/12 10K <b>PHA</b>	<b>(N)</b> 20 V. 1 SE B	ø 3 W CKT	POLES	BKR	LOAD DESCRIPTION	ARCHITECT CRABTREE, ROHRBAUGH & ASSOCIATES 401 E. Winding Hill Road Mechanicsburg, PA 17055 Phone: 717-458-0272 Email: jharder@cra-architects.com Attn: Jessie Harder MEP ENGINEERS SETTY 575 South Charles Street, Suite 403 Baltimore, MD 21201 Phone: 667-309-6036
20 A 20 A	1 1	1 3	0.4 0.6	0.6	0.6	2 4	1 1	20 A 20 A	LIBRARY LGTS (E) CABLE TV (E)	Email: deepak.at@setty.com Attn: Deepak Ajjimane
20 A 20 A	1 1	5 7	0.6 0.6	0.6	0.6	6 8	1	20 A 20 A	LIBRARY LGS (E) REC IMC OFF (E)	
20 A	2	9 11	1.2 2.4	1.2	2.4	10 12	2	40 A	A/C LEFT SIDE (E)	
20 A 20 A	1 1	13 15	0.7 0.2	0.7	0.0	14 16	1 1	20 A 20 A	REC LAPTOP CHARGING SPARE	
20 A 	1	17 19	0.0 0.0	0.0	0.0	18 20	1 	20 A 	SPARE BUSSED SPACE	
		21 23	0.0 0.0	0.0	0.0	22 24			BUSSED SPACE BUSSED SPACE	
	TOTAL LO	DAD: MPS:	8 kVA 66 A	7 k 56	KVA B A	_	1			
<b>CON</b>	NECTED 67 VA	<b>D</b> I	EMAND 25.00%	<b>ESTI</b> 45	<b>MATE</b> 59 VA	D		PA	NEL TOTALS	
							C( EST	ONNECT	TED LOAD:         19387 VA           DEMAND:         19479 VA	
							CONN EST. DE	ECTED	CURRENT: 81 A CURRENT: 81 A	
D			<b>100</b>	רח	<b>/NI</b> )					
OR COR	RIDOR D	DU	VOLTAGE:	<b>DZ</b> 240/12	(IN) 20 V. 1	ø 3 W	<i>I</i> .			
ecessed MLO	d Type 1	A.I.(	C. RATING: SPECIAL:	10K						
BKR	POLES	СКТ	PHASE A kVA	PHA k\	SE B VA	скт	POLES	BKR	LOAD DESCRIPTION	
20 A 20 A	1	1 3	0.6 0.4	0.6	1.2	2 4	2	20 A 20 A	EXISTING LOAD	
20 A 20 A	1	5 7	0.6 1.2	0.0	1.2	6 8	2	20 A	EXISTING LOAD	
20 A	2	9 11	1.2 1.2	1.2	0.6	10 12	1	20 A	EXISTING LOAD	
20 A 20 A	1	13 15	0.7 1.1	0.2	0.0	14 16	1	20 A 20 A	SPARE	
20 A	TOTAL LO	17 DAD:	0.0 0.0 8 kVA	5 k	VA	18	1	20 A	SPARE	<u>100% DESIGN SUBMISSION</u> <u>1/22/2020</u>
CON			EMAND	ESTI		D		PA	NEL TOTALS	10
30	57 VA		25.00%	40	9 VA		C		<b>TED LOAD:</b> 16147 VA	9
							CONN		CURRENT: 67 A	8
							E31. DE			7
										6 5
										4
										3
										2
										1 02/20/2020 ADDENDUM #1
										GEORGE SHARSWOOD ELEMENTARY SCHOOL
										2300 S 2ND STREET, PHILADELPHIA, PA 19148
										PROJECT TITLE CLASSROOM MODERNIZATION
										DRAWING TITLE
			-	1. T C	PAN URN ALI	L SPARE	BOARD E CIRCUIT E F WORK.	SCHE	EDULE NOTES	ELECTRICAL PANEL SCHEDULES
				2. P C		TYPED TION OF	SCHEDULE F PROJECT	FOR PAI	NEL BOARDS UTILIZED AT NG ACTUAL AS-BUILT	
				C 3. N M	ושאיט III IEW CIR ITH FYI	טאט. CUIT BF STING F	REAKER (IF I PANEI ROAF	PROVIDEI	D) MUST BE COMPATIBLE	
				TI R	HE PAN ATING T	ELBOAF	RD MANUFA	CTURER	AND WHICH HAVE AN AIC NEL RATING).	DRAWN BY CHECKED BY DAT
k	EY PANELS			4. A A	LL SPAF	RE CIRC	UIT BREAK	ERS NUM		B-039C OF 2018 / 19
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Asbestos Abatement Specification for George Sharswood Elementary School 2300 S 2nd Street; Philadelphia. PA 19148

### **SPECIFICATIONS**

#### FOR

#### **REMOVAL OF ASBESTOS CONTAINING MATERIALS**

#### **CLASSROOM MODERNISATION**

#### **CAPITAL PROJECTS**

### GEORGE SHARSWOOD ELEMENTARY SCHOOL 2300 S 2ND ST; PHILADELPHIA, PA 19148

PRERARED FOR:

**SCHOOL DISTRICT OF PHILADELPHIA OFFICE OF ENVIRONMENTAL MANAGEMENT** 440 N BROAD STREET PHILADELPHIA, PA 19130

WORK SITE:

CLASS ROOMS 1<sup>ST</sup> & 2<sup>ND</sup> FLOOR GEORGE SHARSWOOD ELEMENTARY SCHOOL 2300 S 2ND ST; PHILADELPHIA; PENNSYLVANIA 19148

**PREPARED BY:** 

WESTCHESTER ENVIRONMENTAL LLC 1248 WRIGHTS LANE WEST CHESTER, PA 19380

DECEMBER 2019

Malle All\_

Matthew Abraham Certified Pennsylvania Asbestos Project Designer Cert#010199

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#### <u>REMOVAL SPECIFICATIONS FOR THE ABATEMENT OF</u> <u>ASBESTOS CONTAINING MATERIALS</u>

#### PART 1 – GENERAL

#### 1. <u>INTRODUCTION</u>

The removal specifications details the procedures that need to be followed for the removal of assumed asbestos containing chalk board glue dots in the classrooms of Cayuga Elementary School of the School District of Philadelphia, Pennsylvania.

#### 2. <u>STIPULATIONS</u>

The procedures specified herein are guidelines for minimum performance. The Contractor is responsible for his own methods of operations and conformance to regulatory codes, rules and guidelines. The Contractor is *required to obtain all permits- licenses and approvals to perform the work,* including any rights to use patented systems.

#### 3. <u>SCOPE OF WORK</u>

- A. The scope of work for this project covers the supplying of all labor, tools, material, equipment, services and appurtenances to accomplish the work specified and indicated on the contract drawing. The work shall be performed to the complete satisfaction of the **Owner (School District of Philadelphia)** in accordance with the current City of Philadelphia, EPA and OSHA regulations, State Labor and Industry regulations and any other applicable State, Local and Government regulations.
- B. Contractor shall submit an Action Plan which describes specifically how abatement work is to be completed for each abatement phase. At a minimum the work Plan shall address work area preparation, work practices, decon location, estimated completion dates, respiratory protection and disposal; approval of the Action Plan must be obtained through the Owner prior to the start of work. Procedures outlined in the Action Plan must be followed throughout the abatement phase. Any changes in Action Plan must obtain prior approval from the Owner.

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C. The work under this project includes but is not limited to the following:

## **George Sharswood Elementary School:** For quantities and locations, Refer to Table in Appendix 1.

#### 4. <u>CONTROL OF WORK</u>

- A. All work which does not conform to the requirements of the contract, plans and specifications will be considered unacceptable.
- B. Unacceptable work, whether the result of poor workmanship, use of defective materials, damage through carelessness, or any other cause found to exist prior to the final acceptance of the work, shall be corrected immediately and replaced in an acceptable manner.
- D. If the Owner finds the materials furnished, work performed or the finished product not within reasonably close conformity with the plans and specifications and have resulted in an unacceptable finished product, the affected work or material shall be removed and replaced or otherwise corrected by and at the expense of the Contractor.
- E. The term "reasonably close conformity" shall not be construed as waiving the Contractor's responsibility to complete the work in accordance with the plans, contract and specifications. The term shall not be construed as waiving the Owner's right to insist on strict compliance with the requirements of the contract, plans and specifications during the Contractor's prosecution of the work, when in the Owner's opinion and judgment such compliance is essential to provide an acceptable finished work.

#### 5. <u>QUALITY ASSURANCE</u>

- A. Consultant:
- The Owner shall contract for a Quality Assurance Consultant Project Monitor hereafter referred to as 'Consulting Firm" which specializes in performing air sampling, project monitoring and inspections on asbestos abatement projects. The testing laboratory shall as a minimum be accredited by the City of Philadelphia Air Management Services; NIOSH

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	PAT analy	Program (Proficiency Analytical Testing) for PCM asbestos air sis and NVLAP for asbestos bulk analysis.
2)	The C comp and re	Consulting Firm will be responsible for certifying the project was leted in accordance with all federal, state, and City asbestos standards egulations.
3)	The C descriphase prior	Consulting Firm shall review the Contractors Action Plan which ibes specifically how work is to be completed for each abatement Approval of the Action Plan must be obtained through the Owner to the start of work.
В.	Contr	ractor Experience:
1)	The A years succe value project the C and er Penns	Asbestos Abatement Contractor shall have a minimum of three (3) ' experience in the asbestos abatement business. He shall have ssfully completed three (3) projects of similar or larger size and dollar to this project and shall not have defaulted on an asbestos abatement et within the last three (3) years. The Contractor shall be certified by ity of Philadelphia & Pennsylvania Department of Labor and Industry mploy asbestos workers certified to work in the Commonwealth of ylvania.
C.	Wor	ker Certification:
	1)	The Contractor shall furnish proof that his employees have had instruction on the dangers of asbestos exposure on respirator use, decontamination and current OSHA and EPA regulations.
	2)	Documentation of workers medical exams, consist of x-rays and pulmonary function shall be submitted and as may be required by current OSHA and EPA regulations and any applicable State and Local Government regulations.
	3)	There must be on site at all times, an EPA Certified Asbestos

3) There must be on site at all times, an EPA Certified Asbestos Abatement Supervisor. The Asbestos Abatement Supervisor shall have successfully completed a 5-day EPA Certified Practices and Procedures Course as per 40 CFR. Part 763, Subpart E. Appendix C-EPA Model Accreditation Plan (must provide a copy of certificate from EPA approved course). All asbestos workers shall have successfully completed a 4-day EPA Certified Practices and Procedures Course as per 40 CFR, Part 763. Subpart E. Appendix C-EPA Model Accreditation Plan. The Contractor must provide copies of certificates from Pennsylvania Department of Labor and Industry for all workers, and supervisors as required by regulation.

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4)	When required by the Pennsylvania Department of Labor and Industry (PDL&I) the Contractor, Abatement Supervisor and Abatement Workers shall be licensed by PDL&I. Each worker/supervisor shall have a current photo identification issued by PDL&I available on request by the Owner when required.
5)	<ul> <li>The Philadelphia Federation of Teacher's (PFT) Environmental Consultant shall have the option to conduct side by side final clearance air samples within 24 hours of notice of work area completion with the API. Samples will be collected, analyzed, and addressed, in accordance with all applicable, Federal, State, and local regulations.</li> <li><b>a.</b> For Major Projects, samples shall be collected and analyzed via TEM. Result shall be evaluated in accordance with the ACR and AHERA.</li> <li><b>b.</b> Acceptable airborne fiber concentrations for individual "outside the work area" air samples shall be &lt; 0.010 f/cc for PCM and &lt; 0.010 s/cc for TEM.</li> </ul>
6)	<ul> <li>All work and disposal shall be performed in compliance with all applicable Federal, State, and local regulations including, but not limited to: <ul> <li>a. 29 CFR 1926.1101 (OSHA);</li> <li>b. 29 CFR 1926.501 (OSHA);</li> <li>c. 40 CFR Part 61 (NESHAP);</li> <li>d. 40 CFR Part 763 (AHERA);</li> <li>e. 40 CFR 761 (PCB Regulations);</li> <li>f. Resource Conservation and Recovery Act (RCRA);</li> <li>g. 40 CFR 300-399, EPA Comprehensive Environmental Response Compensation &amp; Liability Act</li> <li>h.40 CFR 745, EPA Toxic Substances Control Act; LBP Poisoning Prevention</li> <li>i. EPA Renovation, Repair, and Painting (RRP) rule under the Toxic Substances Control Act</li> <li>j. 49 CFR 171-180, DOT Hazardous Material Regulations</li> <li>k. 42 CFR Part 84 &amp; 30 CFR Part 11 (NIOSH/DHHS respirator standards);</li> <li>l. the Asbestos Control Regulation (Philadelphia Department of Public Health);</li> <li>m. Act 194 &amp; Act 161 (Pennsylvania Department of Labor and Industry);</li> <li>n. Section F-315.8 (R) of the Philadelphia Fire Prevention Code;</li> <li>o. NADCA ACR 2006 (HVAC System cleaning standards);</li> <li>p. this Specification.</li> </ul></li></ul>

#### 6. POSTING OF REGULATIONS

The Contractor will have at all times in his possession at his office one (1) A.

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> copy and in view at the job site one (1) copy of the Asbestos Control Regulations of the City of Philadelphia, current OSHA Regulations 29 CFR 1926.1101 \_ Asbestos and current Environmental Protection Agency 40 CFR Part 61. Subpart M: National Emission Standard for Hazardous Air Pollutants as related to asbestos stripping, emissions, notification work practices and disposal of asbestos waste.

#### 7. <u>ASBESTOS ABATEMENT CONTRACTOR'S (AAC) RESPONSIBILITIES</u>

- 1. The Contractor is required to notify the building occupants and the following agencies in writing ten (10) days prior to starting work for notification and instructions concerning proper disposal of asbestos waste material.
  - United States Environmental Protection Agency Region III Asbestos - NESHAP Coordinator (3AT33) 841 Chestnut Building Philadelphia. PA 19106
  - 2) Pennsylvania Department of Environmental Protection Bureau of Air Quality Control Regional Manager
  - Pennsylvania Department of Labor and Industry Asbestos Occupation Accreditations & Certification Bureau of Occupational and Industrial Safety Room 155E Labor and Industry Building Seventh & Forster Streets Harrisburg. Pennsylvania 17120
  - 4) City of Philadelphia, appropriate notification must also be made. Obtain permits as required by local regulations.
  - 5) EPA DEP approved asbestos landfill proposed to be used by the Contractor for RACM. Submit completed WSR for RACM at projects end (see 3.07. F).
- 2. The AAC is responsible for visiting the site and verifying quantities of asbestos containing materials, locations of utilities, and waste out routes prior to submitting a bid.
  - a. No work shall be performed if the AAC believes the work to be performed is a change and/or addition to the work scope outlined in these construction documents without first obtaining a Notice to Proceed (NTP) from the Owner.

#### Asbestos Abatement Specification for George Sharswood Elementary School 2300 S 2nd Street; Philadelphia. PA 19148

- b. The Owner shall not be responsible for compensating the AAC for work performed that is considered a change and/or addition to the construction documents without the issuance of a NTP and/or a written work directive.
- **3.** The AAC will provide a schedule for the work to be completed.
- 4. The AAC shall provide all labor, tools, materials and scaffold necessary to complete the project safely, in a timely fashion, and in accordance with the specification and all applicable regulations.
- 5. The AAC shall be responsible for pre-cleaning & the removal of all furniture and educational materials (labeled with the Room Numbers or Areas in which they originated from prior to relocation) in all scheduled abatement work areas listed. This is to be done in coordination with the Owner to establish temporary storage locations for movable items removed from the abatement work areas
- 6. The Owner shall be responsible to remove all computers, monitors, printers, all other computer related components and/or items deemed too valuable or sensitive to be handled by the AAC.
- 7. Returning items back to the work area rooms shall be the responsibility of the AAC.
- 8. The AAC shall supply, at their own expense, all construction materials, supplies, and all electrical, water, and waste connections, tie-ins, or extensions. Temporary service lines shall be installed to prevent tripping, slipping or falling. The AAC must utilize a licensed electrician to provide a separate temporary electric panel, receptacles, and lights, all with ground fault interruption and current-overload protection. All temporary electrical set-ups shall be in accordance with OSHA regulation and NEMA standards.
- **9.** The temporary electrical panel and the building's electrical supply source shall be enclosed, concealing all potential contact points in order to avoid electrocution hazard and potential arcing to nearby or passing conductor materials.
- 10. Installation of the temporary electric panel shall occur within the ten (10) day waiting period prior to the start of this asbestos abatement project, after submission of the Asbestos Abatement Notification to the EPA, DEP, and Philadelphia Air Management Services.
- 11. All water connections utilized throughout the performance of this asbestos abatement project shall be disconnected at the source before leaving the site AFTER ALL shifts, and all hoses shall be drained to prevent unexpected water leaks after the AAC and API are offsite.

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12.	When temporary service lines are no longer required, they shall be removed by the AACs licensed electrician.
13.	Any parts of the permanent service lines, grounds and buildings, disturbed or damaged by the installation and/or removal of the temporary service lines, shall be restored to their original condition by the AAC as approved by the Owner.
14.	The AAC shall maintain current copies of certifications for workers on-site, and shall keep copies of all pertinent specifications and regulations on-site. The API retains the right to prohibit work by employees without current certifications.
15.	The AAC shall maintain a detailed sign-in/sign-out log, which must be filled out by every person entering the work area. All entries shall be complete and legible.
16.	The AAC shall be responsible for security of the work site, fire/smoke detection, and maintenance of existing utility systems as it relates to the performance of this project.
17.	<ul> <li>The AAC shall provide fire protection in accordance with all State and Local codes. This includes, but is not limited to:</li> <li>a. Providing a written fire prevention and emergency action plan.</li> <li>b. Providing multi-purpose ABC rated fire extinguishers, insuring that on-site personnel are aware of the location and proper use of all fire extinguishers and other safety equipment.</li> <li>c. Performing a fire watch of the overall work area.</li> <li>d. Designating a safety coordinator to implement the above actions. The AACs safety coordinator shall be responsible for: <ol> <li>Fire/life safety entries shall be entered into the AACs log daily and shall be submitted with the AAC's final report.</li> <li>Daily entries shall include names, dates, duration, problems &amp; corrective actions taken by the fire watch - must be signed by the safety coordinator.</li> </ol> </li> </ul>
18.	The AAC shall submit to the API the number of AFDs projected to obtain a negative pressure differential sufficient to provide a minimum of four (4) air changes of the work area per hour for all Major Projects along with the calculations used to determine this. The AAC shall install a manometer to confirm the differential, which should read minimum of -0.02 inches of water column. <b>a.</b> Manometer(s) shall be installed by the AAC around the work area before the start of the performance of asbestos abatement activities until the receipt of acceptable clearance air sample results to record and verify adequate negative pressure differential is maintained throughout the project.
19	Assure protection of AFD exhaust ducts from damage during ashestos abatement

Assure protection of AFD exhaust ducts from damage during asbestos abatement 19. activities.

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	20.	<ul> <li>The AAC Supervisor and API shall perform a visual inspection of the entire floor immediately below all active abatement work areas at the end of each 8 hour shift to verify that no water leaks, fallen material, or any other type of damage has occurred.</li> <li>a. If water leaks, fallen material, or any other type of damage has occurred: <ol> <li>all asbestos abatement work shall be halted;</li> <li>the API shall immediately notify the Project Manager and Owner for direction and input;</li> <li>the source of the leak or damage shall be determined;</li> <li>the containment breech issue shall be rectified before any asbestos abatement work will be permitted to continue.</li> </ol> </li> </ul>
	21.	As required by the Asbestos Control Regulation, the AAC shall provide a minimum 18" square transparent viewing window consisting of shatterproof material greater than or equal to 1/8" in thickness located at a height appropriate for accessible viewing and in such a manner as to maximize visibility of the abatement work area.
<b>8</b> .	<u>AIR T</u>	ESTING AND MONITORING

- A. Air sampling of the work areas and surrounding environment will be conducted during the performance of this contract by the Consulting Firm so as to ensure abatement procedures are in compliance with all codes, regulations, ordinances and this specification.
- B. The Contractor shall fully cooperate with the Consulting Firm and all others responsible for testing and inspecting the work.
- C. Air testing and analyses shall be in accordance with City of Philadelphia Asbestos Control Regulations, current EPA and requirements of Section 29 CFR 1926.1101 of the current OSHA Regulations, as a minimum. Analysis shall be performed by Phase Contrast Microscopy per NIOSH 7400 Method and/or Transmission Electron Microscopy (TEM) per EPA Level I analytical procedures.
- D. Air tests taken prior to start of work (background) and at completion (preclearance) will be analyzed by PCM-Phase Contrast Microscopy. Final (clearance) testing shall be by TEM-Transmission Electron Microscopy.
- E. The Consulting Firm shall give verbal notification to the Owner of the results of each test within twenty-four (24) hours of the time the samples were delivered to the laboratory. The Consulting Firm shall confirm the results in writing within three (3) days thereafter.
- F. Prompt reports are necessary so that, if required, modifications to work

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methods and/or practices may be implemented as soon as possible.

- G. Representatives of the Consulting Firm shall have access to the work area at all times. The Contractor shall provide facilities for such access in order that the Consulting Firm may properly perform its function.
- H. Sampling equipment and personnel will be provided by the Consulting Firm.
- I. Air sampling shall be performed in each work area prior to commencement of the work at that location. The highest fiber count reading during pre-clearance cleanup monitoring shall be lower than the background readings established by pre-job monitoring or 0.01 f/cc, whichever is lower.

#### SCHEDULE NOTES:

- 1. Consecutive daily air samples will be collected during abatement to yield a minimum of eight (8) hours of sampling time for each active work area.
- 2. Exterior work area(s) samples shall be collected daily at decon clean room entrance, load out exit, discharge of HEPA exhaust units, and area(s) adjacent to work area(s) that are occupied or will be re-occupied.
- 3. Aggressive air sampling must be conducted when work area is prepared as a negative pressure enclosure.
- K. Work area clearance testing shall be completed before work site protective barriers are removed.
- L. The Contractor is responsible for performing the thirty (30) minute excursion air sampling per OSHA regulations.
- M. The Contractor is responsible for performing 8 hour TWA personal air samples in the employees breathing zone per OSHA regulations.

#### 9. <u>AIR FILTERING - (FOR GUIDELINE PURPOSES ONLY)</u>

A. An approved negative pressure machine may be used in the active work area using HEPA equipped air movement units.

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	B.	Air may be drawn from clean areas through the decontamination and active work areas. HEPA filtered and exhausted through air movement units to the containment exterior. Replace filters in accordance with manufacturer's instructions and to meet the needs of this specification.
	C.	Air movement should be sufficient quantity to ensure a minimum of four (4) air changes per hour.
		Example: Active work area = 50' x 50' x 20' H = 50,000 cu. ft.
		For four air changes per hour = 4 AC/HR x 50,000 CF/AC = 200,000 cu.ft./hr.
		In cubic feet per minute = 200,000 CF/HR: 60 min. 1 hr. = 3,333 cu. ft/minute
		This active work area would require a combination of air movement/HEPA units, i.e. 2,500 CFM and 1,500 CFM
	D.	The exhaust system must be sufficient to maintain a minimum pressure differential of -0.02 inches of water relative to unsealed, adjacent area.
	E.	The exhaust system(s) will run twenty-four (24) hours/day until final clearance is obtained and will be maintained in accordance with ANSI Z9.2 and the manufacturer's directions.
	F.	To ensure continuous operation, the Contractor shall have a spare negative exhaust unit available.
	G.	Other approved air filtering methods may be utilized at the Contractor's discretion, with the stipulation that designated regulatory agencies provide documented approval to the Owner. It shall be the responsibility of the Contractor to submit all documentation required to the appropriate regulatory agency for their review and approval.
10.	<u>PLAC</u>	CEMENT OF WARNING SIGNS AND LABELS
	A.	The Contractor shall furnish and place warning signs at all approaches to asbestos control areas containing concentrations of airborne asbestos fibers. Locate warning signs at such a distance that personnel may read the warning sign and take the necessary protective action required before

entering the area. Warning signs shall be in place for the duration of the work. The Contractor shall furnish and attach caution labels to all disposal

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containers holding asbestos materials, scrap waste\_debris and other products contaminated with asbestos.

B. Warning Signs: Provide warning signs conforming to 29 CFR 1926.1101 with the following legend:

#### DANGER ASBESTOS CANCER AND LUNG DISEASE HAZARD AUTHORIZED PERSONNEL ONLY RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA

C. Caution Labels: Attach label to the outside of all disposal bags and containers which hold asbestos contaminated materials and are to be removed from the site. Caution labels shall be printed in letters of sufficient size and contrast so as to be readily visible and legible and shall display the following legend:

#### DANGER CONTAINS ASBESTOS FIBERS AVOID CREATING DUST CANCER AND LUNG DISEASE HAZARD

D. Identification Labels: Attach label to the outside of all disposal bags and containers which hold asbestos contaminated materials and are to be transported off facility site. Identification labels shall display the following legend:

Waste Generator Name:	Fill
Out	_
Generator Location:	Fill
Out	

E. Transportation marking shall conform to 49 CFR 171 and 172 and shall be provided on all containers with more than one pound of friable asbestos. Transportation marking shall display the following legend:

#### R Q HAZARDOUS SUBSTANCE SOLID, NOS ORM-E, NA 9188 (ASBESTOS)

#### END OF SECTION

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#### PART 2 - PRODUCTS

#### 1. EQUIPMENT AND MATERIALS

- A. The list of required materials will include, but is not necessarily limited to the following:
  - Respirators: Provide respiratory protection in accordance with OSHA Regulation 29 CFR 1926.1101 and appendices ANSI 288.2-1980. Respiratory protection regardless of negative exposure assessments. There shall be NO EXCEPTION to this requirement. As <u>minimum</u> protection, negative pressure air purifying respirators shall be worn. Contractor shall select the appropriate respirator based on an initial exposure assessment or exposure monitoring results. No employee or visitor shall enter any area without this protection until clearance has been obtained. Employees or visitors shall wear a respirator. Respirators shall be NIOSH approved. Ensure proper filters are worn using a HEPA as a minimum.
  - 2) Protective Clothing:
    - a) Disposable Clothing such as "Tyvek" by DuPont. Clothing shall consist of coverall head cover and foot cover. Gloves will be worn for hand cover as needed.
  - 3) Wetting Agents The asbestos material will be sprayed with water containing an additive to enhance penetration. The additive or wetting agent will be polyoxyethylene at a concentration of one (1) ounce per five (5) gallons of water or as otherwise specified by manufacturer. A fine spray of this solution must be applied to prevent fiber disturbance preceding the removal of the asbestos material. The asbestos will be sufficiently saturated to prevent emission of airborne fibers in excess of the exposure limits prescribed in the current OSHA standards referenced in these specifications. DRY REMOVAL WILL NOT BE ALLOWED EXCEPT WITH WRITTEN APPROVAL FROM EPA or BECAUSE OF FREEZING WORK AREA TEMPERATURES.
  - 4) Polyethylene sheeting: Six (6) mils. for protection of floors, walls, doors, windows, fixed equipment, HVAC supply and return openings, and critical barriers.
  - 5) Clear Polyethylene bags (with warning labels) six (6) mils

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L		minimum for disposal. All asbestos that is removed shall be double bagged.
	6)	Tape: High quality vinyl or fabric duct tape. Paper masking tape will not be permitted.
	7)	Negative Pressure Filtration Equipment: Air movement and filtering equipment equipped with HEPA filters rated at 99.97% removal down to 0.3 microns, and of sufficient capacity to provide a minimum of four (4) air changes per hour for each active work area.
	8)	Airless Spray Equipment: Electric airless spray equipment for saturating and mist fiber control. Low pressure (500 psi) equipment must be available on-site and utilized as required.
	9)	Vacuum: HEPA rated for surface cleaning and house-keeping. Hand operated and power tools such as, but not limited to, saws, corers, abrasive wheels and drills should be provided with local exhaust ventilation systems with HEPA filters.
	10)	Hand Tools: Brooms, plastic shovels, scrapers, brushes, etc., in sufficient quantity to ensure the appropriate level of housekeeping.
	11)	Water Filtration System: Shower and contaminated water filtration system.
	12)	GFI Equipment: All electrical connections in the work area must be through "ground fault" protected outlets/circuits.
	13)	Penetrating Encapsulant: Penetrating encapsulants to be used on this project are International Cellulose Corporation SK-13 Asbestos Encapsulant, International Protective Coatings Corporation Serpiflex Shield, Fiberlock Technology ABC Asbestos Binding Compound Concentrate, and others listed as acceptable in the Environmental Protection Agency - Battelle Laboratory Encapsulant Study. or approved equal.
	14)	Bridging Encapsulant: Bridging encapsulants to be used on this project are American Coatings Corporation Cable Coating 2B, Decadex Laboratories Firecheck, Fiberlock Technology ABC Asbestos Binding Compound Concentrate, or approved equal.
B.	The C	Contractor will have at all times in his possession at the job site

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Material Safety Data Sheets (MSDS) for wetting agents, encapsulants, solvents, strippers, and an other potentially hazardous materials.

#### 2 <u>PERSONNEL PROTECTIONS</u>

- A. Personnel protection is required for laborers, mechanics, supervision and visitors at the work site during the set-up and abatement operations.
- B. Each worker shall be supplied with a minimum of two (2) complete protective work clothes and respirator filter changes per day for the complete duration of the project. Hard hats should be available as appropriate which meet ANSI Z-89.1 standards. Safety toe footwear is to be worn underneath the disposable shoe covers and must meet the requirements and specifications in ANSI Z-41.1. Eye wear and face protection must meet the standards and specifications of ANSI 287.1.
- C. In addition to sets of protective work clothes for workers, the Contractor shall have on hand two (2) additional sets of disposable work clothes, per day and respirators for personnel who are authorized to inspect the work site. Hard hats should be available as appropriate which meet ANSI Z-41.1. Eye wear and face protection must meet the standards and specifications of ANSI Z-87.1.
- D. Respirators approved for asbestos use and protective work clothes will be worn by laborers and mechanics as a minimum during set-up operations (plastic draping, light-fixture dropping or removal, etc.).
- E. Appropriate respirators will be worn by all personnel in the active work area.
- F. Upon leaving the active work area, filters will be discarded, cartridges removed and respirators cleaned in disinfectant solution and clean water rinse.
- G. Clean respirators will be stored in plastic bags when not in use.
- H. Respirators will be inspected daily for broken, missing, or deteriorated parts.

#### END OF SECTION

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#### PART 3 - EXECUTION

#### 1 AREA PREPARATION

- A. Movable furniture blinds and equipment will be removed from area of work by the Using Agency.
- B. Heating and ventilating system servicing the areas of work must be shut down prior to starting any work. Notify the Institution prior to starting any work in order that they may arrange to have the heating and ventilating system shut down.
- C. The Contractor shall isolate the work area for the duration of the work by installing critical barriers completely sealing off all openings in the work area, including, but not limited to, heating, ventilation ducts, doorways, corridors, windows, roof ventilator openings, and wall vents, with plastic sheeting taped securely in place with six (6) mils plastic sheeting.
- D. The Contractor shall build decontamination chamber(s) if required to be connected to each active work area for entrance to or exit from the active work area. When required a separate material load out unit shall be constructed.
- E. The Contractor shall cover all fixtures, fixed demountable partitions, lighting, fixed items and equipment in the work area with plastic sheeting taped securely in place.
- F. Duct tape, staples, wood strips and other methods will be used appropriately to attach vertical plastic barriers to walls and to floors. All edges of plastic material shall overlap the adjoining sheet a minimum of twelve inches. All joints (vertical and horizontal) to be continuously sealed with duct tape.
- G. Upon completion of area isolation, the Contractor shall remove, where practical, all detachable electrical heating and ventilation equipment, Wipe and vacuum, clean and remove from active work area.

#### 3.02 METHOD OF REMOVAL

A. Remove and dispose of all asbestos-containing materials (ACM) in accordance with the methods and procedures outlined in the City of Philadelphia Asbestos Control regulations, United States Department of Labor, Occupational Safety and Health Administration (OSHA) Asbestos

As	bestos	Abate	ment Specification for George Sharswood Elementary School 2300 S 2nd Street; Philadelphia. PA 19148
L		Regu 1926.	lations, Codes of Federal Regulations Title 29. Part 1926. Section 1101.
	B.	Dry r	emoval will not be allowed.
	C.	Work	of this section shall be performed in the following manner:
		1)	Eliminate air flow into containment area by isolating all supply and return air ducts from mechanical system. Turn off electrical power.
		2)	Install six (6) mil polyethylene critical barriers over all doors, wall openings, ceiling openings, electrical outlets, etc. Secure with duct tape on all sides.
		3)	Connect required number of negative air units in the work area.
		4)	All air from negative air units shall be exhausted outside the building.
		5)	Isolation barriers separating occupied areas and work areas shall be framed and covered with 1/2 inch plywood and two (2) layers of six (6) mil polyethylene.
		6)	Duct HEPA filter unit through door. Locate unit to prevent dead air pockets.
		7)	Install triple air curtain, six (6) mil polyethylene (typical), over door opening into decontamination unit or load out unit.
3.03	HOUS	SEKEE	<u>PING</u>
	A.	Throu and si specif	ighout the work period, the Contractor shall maintain the building ite in a standard of cleanliness as specified throughout these fications.
	B.	Conta be ba	aminated disposable clothing, respirator filters and other debris will gged_ properly labeled and sealed at the end of each work day.
	C.	All as prope	sbestos generated by removal, encapsulation or repair will be bagged, orly labeled, and sealed at the end of each work day.

Respirators will be thoroughly cleaned at the end of each work day and D. stored for the next day's use.

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E.	Retain all stored items in an orderly arrangement allowing maximum access, not impeding traffic, and providing the required protection of materials.
F.	Do not allow the accumulation of scrap, debris, waste material, and other items not required for completion of this work.
G.	At least weekly, and more often if necessary, completely remove all scrap, debris and waste material from the job site.
H.	Unless otherwise noted or directed, materials resulting from demolition operations shall be the property of the Contractor, shall not be used in the work and shall be promptly removed from the site.
I.	Daily and more often if necessary, inspect the work areas and adjoining spaces, and pick up all scrap, debris and waste material. Remove all such items to the place designated for their storage.
J.	Provide adequate storage for all items awaiting removal from the job site, observing all requirements for fire protection and protection of the ecology.
К.	Maintain the site in a neat and orderly condition at all times.
L.	Compressed air is not to be used for cleaning purposes.
3.04 <u>FINA</u>	L DECONTAMINATION OF WORK AREA
А.	Following careful double bagging of all removed asbestos material by the Contractor, he shall label bags as required.
В.	Bags shall be wiped with clean damp cloths prior to transportation to approved disposal site.
C.	With critical barriers in place, the negative pressure system operating, the Contract shall carry out the first cleaning. Use each surface of a cleaning cloth one time and then dispose of as contaminated waste.
D.	Continue this cleaning until there is no visible debris from removed material or residue on plastic sheeting.
E.	Pressure washing techniques of any kind are strictly prohibited.
F.	Pre-Encapsulation Inspection of substrate is performed by Consulting

As	bestos	Abatement Specification for George Sharswood Elementary School 2300 S 2nd Street: Philadelphia, PA 19148
		Firm to ensure removal and cleaning of the substrate is adequate. The Contractor may accompany this inspection. If during the inspection, the Substrate or plastic sheeting isn't cleaned to the satisfaction of the Consulting Firm; additional recleaning will be required to meet the satisfaction of the Consulting Firm.
	G.	Encapsulate substrate and all remaining plastic sheeting within the work area. A colored encapsulant may be used on non-finished surfaces.
	H.	NOTE: Final barriers are not to be removed until work is completed.
	I.	With critical barriers in place, negative pressure system operating, and immovable objects covered with plastic sheeting, perform a second cleaning as was done in the first cleaning. Wet mop any hard floor surfaces. HEPA vacuum carpeted area surfaces. Hard surfaced flooring such as concrete, terrazzo, VAT and ceramic tile, shall be wet mopped, allowed to dry, and damp mopped a second time with clean mop heads. All mop heads and cleaning cloths are to be discarded in the same manner as asbestos waste.
	J.	All surfaces are to be left visually clean.
	K.	Perform visual inspection of work area.
	L.	If pre-clearance criteria are met, proceed with air testing for final clearance by PCM or Transmission Electron Microscopy (TEM).
	M.	If pre-clearance criteria are not met, repeat final cleaning until acceptable levels have been achieved before proceeding with final clearance testing by TEM. Costs associated with additional cleaning and testing shall be borne by the Contractor.
	N.	After air testing clearance criteria has been met, critical barriers and negative air pressure system can be removed.
3.05	DISPO	DSAL OF ASBESTOS WASTE
	A.	All RACM and miscellaneous ACM debris will be transported to the predesignated disposal site in accordance with the guidelines of the U.S. Environmental Protection Agency Title 40 Part 61 Subpart M and all local agencies' regulations. Ensure all waste bags/leak tight container have

facilities name address, and contact person as required by NESHAP. Drums are to be used to transport bagged ACM's as required by regulation(s).

Asbestos Abatement Specification for George Sharswood Elementary School 2300 S 2nd Street; Philadelphia. PA 19148

- B. EPA NESHAP Category I &II nonfriable ACM may be disposed of as C&D waste as allowed by regulation. If nonfriable materials become friable they must then be disposed of as regulated ACM waste in an approved landfill.
- C. Workers loading/unloading the asbestos materials and machinery operators will wear respirators and disposable work clothing when handling material at the project and disposal site. Asbestos warning signs shall be posted on vehicle as required by regulation.
- D. The bags may be dumped from the drums into the burial site. If drums are used to transport the ACM bags, the bags may be dumped from the drums into the burial site. The drums may be reused. However, if a bag is broken or damaged, the entire drum should be buried.
- E. The landfill area used for dumping shall be certified to receive and buy materials contaminated by asbestos.
- F. Obtain completed Waste Shipment Record (WSR) for all RACM. WSR must also indicate amount of waste in cubic yards. Submit signed WSR with final report/Project Close-out.

#### 3.06 <u>INSPECTIONS</u>

- A. All work procedures detailed in this specification will be strictly adhered to and meet or exceed all current City of Philadelphia, EPA, OSHA, DEP and PDL&I regulations.
- B. All work shall meet with the approval of the Owner. Work which does not meet with the approval shall be determined to be unsatisfactory.

#### END OF SECTION

1248 Wrights Lane; West Chester, PA 19380 610-431-7545, fax: 610-431-7543

Asbestos Abatement Specification for George Sharswood Elementary School 2300 S 2nd Street; Philadelphia. PA 19148

**APPENDIX 1** 

### TABLE OF LOCATIONS AND QUANTITIES OF

### ASBESTOS CONTAINING MATERIALS

## CLASSROOM MODERNISATION PROJECT

### GEORGE SHARSWOOD ELEMENTARY SCHOOL

TABLE – Page 1           George Sharswood Elementary School – List of Asbestos Containing Materials           Classroom Modernization IN SCOPE Work										
Location	Description	Type (Code 1)	n IN SCO Amo	unt	Condition (Code 2)	Action (Code 3)				
	-	× ,	Square	Linear	. ,					
Class Room 102	Pipe Fitting Insulation	NF1	14 Nos.		ND	REM				
Class Room 102	Pipe Insulation 2-6 inch	NF1		70	ND	REM				
Class Room 102	Chalkboard Glue dots	NF1	100		ND	REM				
Class Room 103	Pipe Fitting Insulation	NF1	18 Nos.		ND	REM				
Class Room 103	Pipe Insulation 2-6 inch	NF1		60	ND	REM				
Class Room 103	Chalkboard Glue dots	NF1	220		ND	REM				
Class Room 105	Pipe Fitting Insulation	NF1	14 Nos.		ND	REM				
Class Room 105	Pipe Insulation 2-6 inch	NF1		70	ND	REM				
Class Room 105	Floor Tile VAT 9" x 9"	NF1	264		ND	REM				
Class Room 105B	Floor Tile VAT 9" x 9"	NF1	80		ND	REM				
Class Room 105	Chalkboard Glue dots	NF1	300		ND	REM				
Class Room 106	Pipe Fitting Insulation	NF1	14 Nos.		ND	REM				
Class Room 106	Pipe Insulation 2-6 inch	NF1		70	ND	REM				
Class Room 106	Chalkboard Glue dots	NF1	460		ND	REM				
Class Room 107	Pipe Fitting Insulation	NF1	14 Nos.		ND	REM				
Class Room 107	Pipe Insulation 2-6 inch	NF1		70	ND	REM				
Class Room 107	Chalkboard Glue dots	NF1	310		ND	REM				
Class Room 108	Pipe Fitting Insulation	NF1	14 Nos.		ND	REM				
Class Room 108	Pipe Insulation 2-6 inch	NF1		70	ND	REM				
Class Room 108	Chalkboard Glue dots	NF1	315		ND	REM				
Room 109 Head Start Program	Pipe Fitting Insulation	NF1	14 Nos.		ND	REM				
Room 109 Head Start Program	Pipe Insulation 2-6 inch	NF1		78	ND	REM				
Room 109 Head Start Program	Chalkboard Glue dots	NF1	138		ND	REM				
Class Room 114	Black floor tile, bottom layer 12x12	NF1	875		ND	REM				

TABLE – Page 2         George Sharswood Elementary School – List of Asbestos Containing Materials										
George Shars	Classroom Mo	odernizatio	n IN SCO	PE Worl	itanning Ma K	teriais				
Class Room 114	Pipe Fitting Insulation	NF1	14 Nos.		ND	REM				
Class Room 114	Pipe Insulation 2-6 inch	NF1		70	ND	REM				
Class Room	Black floor tile,	NF1	35		ND	REM				
Class Room 114	Chalkboard Glue dots	NF1	90		ND	REM				
Class Room 217	9X9 floor tile, bottom	NF1	672		ND	REM				
Class Room 217	Pipe Insulation 2-6 inch	NF1		22	ND	REM				
Class Room 217	Sink undercoat mastic	NF1	12		ND	REM				
Class Room 217	Chalkboard Glue dots	NF1	141		ND	REM				
Class Room 219	Pipe Fitting Insulation	NF1	20 Nos.		ND	REM				
Class Room 219	Pipe Insulation 2-6 inch	NF1		80	ND	REM				
Class Room 219, coat closet	Pipe Fitting Insulation	NF1	8 Nos.		ND	REM				
Class Room 219, coat closet	Pipe Insulation 2-6 inch	NF1		19	ND	REM				
Class Room 219	Chalkboard Glue dots	NF1	325		ND	REM				
Class Room 223	Pipe Insulation 2-6 inch	NF1		20	ND	REM				
Class Room 223 coat closet	Pipe Fitting Insulation	NF1	8 Nos.		ND	REM				
Class Room 223 coat closet	Pipe Insulation 2-6 inch	NF1		19	ND	REM				
Class Room 223	Chalkboard Glue dots	NF1	108		ND	REM				
Class Room 225	Pipe Fitting Insulation	NF1	14 Nos.		ND	REM				
Class Room 225	Pipe Insulation 2-6 inch	NF1		60	ND	REM				
Class Room 225	Chalkboard Glue dots	NF1	40		ND	REM				
Class Room 228	Pipe Fitting Insulation	NF1	20 Nos.		ND	REM				
Class Room 228	Pipe Insulation 2-6 inch	NF1		70	ND	REM				
Class Room 228, storage closet	Pipe Fitting Insulation	NF1	8 Nos.		ND	REM				
Class Room 228, storage closet	Pipe Insulation 2-6 inch	NF1		30	ND	REM				
Class Room 228	Chalkboard Glue dots	NF1	90		ND	REM				

City of Philadelp Public Health Ser Asbestos Contro Asbestos Insp School District of Phila	hia - Departme vices - Air Mar I Unit - 321 Un ection Repo delphia proje	ent of Public Hea nagement Servic iversity Av., 1910 It ects ONLY	office Use Only	Date Received Date Inspected	L&I:	Date Rece	vived AM	S:				
1. Name of Building: George Sha	arswood Elemen <sup>-</sup>	tary School	Ι			Phone #: 1	215-95	2-6212				
2. Name of Building Owner: School District of Philadelphia 440 North Broad Street, Philadelphia, PA 19130       Phone #: 215-400-475												
3. Name of Licensed Investigator: Philip A Conteh       License #: AIC-0586       Phone #: 610-431-7545												
4. Name of Certified Lab: EMSL	Analytical, Inc.		Licen	se #: 137		Phone #: 8	856-858	3-4800				
5. Scope of Work: (include all locations) Classroom Modernization Project (102, 103, 105, 105B, 106, 107, 108, 109, 114, 217,219,223, 225, & 228)												
A review of the SDP Design I OEMS	A review of the SDP Design Drawings was performed 🛛 Yes (List Information Below) 🗌 No -Schedule a meeting with OEMS											
Reviewed 100% Drawings.												
Asbestos Containing Material P	resent? 🛛 Yes	(List Below)	No									
6. List Asbestos Containing Mat then repaired or removed prior to	erial (ACM) loc renovation. You	ated in the planne (Investigator) mus	d renovatio st label all A	n/demolition ar ACM that may b	ea(s). Damag	ged ACM work area.	must be Page	e listed and 1 of 1				
Location See attached spreadsheet	Descrip	otion (	Type (Code 1)	Amou Square	nt Linear	Cond (Co	lition de 2)	Action (Code 3)				
<u>Code 1</u> FRI - Friable NF1 - Non-Friable, Cat. 1 NF2 - Non-Friable, Cat. 2	Code 1Code 2Code 3FRI - FriableDD - Deteriorated orREM - Removal necessary prior to Demo/RenoNF1 - Non-Friable, Cat. 1DelaminatedNRN - No removal necessary, label ACMNF2 - Non-Friable, Cat. 2ND - Non-DamagedREP - Repair & Label ACM, removal not necessary											
I hereby certify that the foregoing st penalties set forth in 18 PA. C.S. S49 requirements of section X of the Asb and given a copy of this report. If th condition, the building owner has bee	atements are true 04 relating to unsy estos Control Reg e inspection has ro n notified to remov	and the information worn falsification to gulation (ACR) have evealed ACM which we or repair the AC	n contained authorities. I been met. T n will be dis M in accorda	in this report is t Furthermore I cert The building own- turbed by the pro- ance with the ACI	rue. This cert ify that the ins er has been no posed work or { prior to reno	ification is spection, sa tified of th if it has re vation or do	made s impling, e ACR i evealed emolitio	ubject to the and labeling requirements ACM in bad n activity.				
Signature of Licensed Asbestos Investigat	ier:		Date:									



ge 2 of Project Name: 7. List all locations inspected th	George shar at do <b>NOT</b> ha	rswood Elementary S ve asbestos containin	School	Project No.	
Location NA	I	Location	Locati	on	Location
. List all homogeneous materia	ls present in th	nis school:			
SBESTOS CONTAINING MA	TERIALS	ASBESTOS C MATE	CONTAINING RIALS	NON-	ASBESTOS MATERIALS
Tipe Fitting Insulation 2-6" Chalkboard Glue Dots (Ass	umed)			Partition I Ceiling T	Room Dividers ile 1'x1'
"x9" Floor Tile – various	colors			Ceiling T	ile 2'x4'
2"x12" Floor Tile – variou Assumed)	is colors			Plaster wa	alls
ink Undercoat Mastic				Plaster Ce Wood Flo	eiling For
				Concrete	Floor
				Concrete	Plaster
				Brick Wa	lls
				_	
D. Caution labels affixed to all A	ACM ?	Yes Yes	No No	renovation o	ectivity must
rec	eive a copv	or have access to	this Asbestos In	spection Rev	ort.
Signature	m	Dat	e <u>01/21/2020</u>		

Ge	orge S	harswood Elementary ,2300		School	District of P	hiladelpl	hia				
South	1 211u C	firet, i inaucipina, i A 19146		Asbe	stos Investigati	on Report					
Proje	ct nam	e: Class Room Modernization			Date : 1/21/20						
Prepared By: Philip Conteh Red= Confirmed (Contact OEMS prior to the disturbance of any of the following materials and report damage)							t damage)				
		Certification No. AIC-0586	Yellow= Assumed (	Contact OEMS	or assessment and s materials and report da	ampling prior to mage)	o the dist	urbance	of these		
			Green= Non Asbest Laboratory Analysis	tos Containing/ s has indicated materials ar	Non Suspect Material ( NO Asbestos present e not typically known to	These material or NO ASBEST contain Asbes	s have b OS DET tos)	een sam ECTED	pled and or these		
1	ł							t of			
e m	-100	On Site Room Name	Material Description	Type	Confirmed/Assumed/ NAD/	Amount of Material	SF LF EA	Damag e	Condition code	Comments/Description/Notes	Response Action (RA)
								-			
	2	Classroom 225	Chalkboard Glue Dots		Assumed	40	SF	0	ND	updated by WCE-01/21/20	Remove
1	2	Classroom 225	Pipe Fitting Insulation		Confirmed	14	EA	0	ND		Remove
1	2	Classroom 225	Pipe Insulation 2-6 inch		Confirmed	60	LF	0	ND		Remove
	2	Classroom 223	Chalkboard Glue Dots		Assumed	108	SF	0	ND	updated by WCE-01/21/20	Remove
1	2	Classroom 223	Pipe Insulation 2-6 inch		Confirmed	20	LF	0	ND		Remove
1	2	Classroom 228	Pipe Fitting Insulation		Confirmed	20	EA				Remove
1	2	Classroom 228	Pipe Insulation 2-6 inch		Confirmed	70	LF				Remove
1	2	Classroom 228 Storage Closet	Pipe Insulation 2-6 inch		Confirmed	30	LF				Remove
1	2	Classroom 228	Chalkboard Glue Dots		Assumed	90	SF	0	ND	updated by WCE-01/21/20	Remove
1	2	Classroom 219	Chalkboard Glue Dots		Assumed	325	SF	0	ND	updated by WCE-01/21/20	Remove
1	2	Classroom 219	Pipe Fitting Insulation		Confirmed	20	EA	0	ND		Remove
1	2	Classroom 219	Pipe Insulation 2-6 inch		Confirmed	80	LF	0	ND		Remove
1	2	Classroom 219 Coat Closet	Pipe Fitting Insulation		Confirmed	8	EA				Remove
1	2	Classroom 219 Coat Closet	Pipe Insulation 2-6 inch		Confirmed	19	LF				Remove
1	2	Classroom 217	Chalkboard Glue Dots		Assumed	141	SF	0	ND	updated by WCE-01/21/20	Remove
1	2	Classroom 217	Pipe Insulation 2-6 inch		Confirmed	22	LF	0	ND		Remove
1	2	Classroom 217	Sink Undercoat Mastic		Confirmed	12	SF	0	ND	updated by WCE-01/21/20	Remove
1	1	Classroom 102	Pipe Fitting Insulation		Confirmed	14	EA	0	ND		Remove
1	1	Classroom 102	Chalkboard Glue Dots		Assumed	100	SF	0	ND		Remove
	1	Classroom 102	Pipe Insulation 2-6 inch		Confirmed	70		0	ND		Remove
	1	Classroom 103	Pipe Insulation 2-6 inch		Contirmed	60		0	ND		Remove
	1		Chalkboard Glue Dots		Assumed	220	51	0	ND		Remove
	1		Pipe Fitting Insulation		Confirmed	14	EA	0	ND		Remove
1	1	Classroom 105	Fipe insulation 2-6 inch		Confirmed	70		0		undeted by WCE 01/21/20	Remove
	1	Classroom 105	Chalkboard Clus Date		Contirmed	918	SF	0		updated by WCE-01/21/20	Remove
1	1		Chalkboard Glue Dots		Assumed	300	51	0		updated by WCE-01/21/20	Remove
	1		Dipo Eitting Insulation		Assumed	400	SF EA	0			Remove
1	1	Classroom 106	Pipe Insulation 2.6 inch		Confirmed	70		0			Remove
	1	Classroom 107	Chalkhoard Clue Dote		Assumed	310		0		updated by WCE-01/21/20	Remove
	1	Classroom 107	Pine Fitting Insulation		Confirmed	1/	FA	0	ND		Remove
	1	Classroom 107	Pine Insulation 2-6 inch		Confirmed	70		0	ND		Remove
	1	Room 114 Head Start Program	Chalkhoard Glue Dots		Assumed	90	SF	0	ND	updated by WCF-01/21/20	Remove
	1	Room 114 Head Start Program	Pipe Fitting Insulation		Confirmed	14	EA	õ	ND		Remove
· · ·											

1	1	Room 114 Head Start Program	Pipe Insulation 2-6 inch	Confirmed	70	LF	0	ND		Remove
1	1	Room 114 Head Start Program	Floor Tile VAT 9" x 9"	Confirmed	438	SF	0	ND	updated by WCE-01/21/20	Remove
1	1	Room 114 Storage Closet	Floor Tile VAT 9" x 9"	Confirmed	17	SF	0	ND	updated by WCE-01/21/20	Remove
1	1	Classroom 108	Chalkboard Glue Dots	Assumed	315	SF	0	ND	updated by WCE-01/21/20	Remove
1	1	Classroom 108	Pipe Fitting Insulation	Confirmed	14	EA	0	ND		Remove
1	1	Classroom 108	Pipe Insulation 2-6 inch	Confirmed	70	LF	0	ND		Remove
1	1	Room 109 Head Start Program	Chalkboard Glue Dots	Assumed	138	SF	0	ND	updated by WCE-01/21/20	Remove
1	1	Room 109 Head Start Program	Pipe Fitting Insulation	Confirmed	14	EA	0	ND		Remove
1	1	Room 109 Head Start Program	Pipe Insulation 2-6 inch	Confirmed	78	LF	0	ND		Remove

George Sha	rswood E	lementary School										
		·	School District o	f Philadelp	hia			-				
2300	South 2n	d Street, Philadelphia, PA 19148	Room by Room Loc	ation Log	Report							
Pr	oject nam	e: Class Room Modernization		, i j								l
			Red= Confirmed (Contact OEMS prior to the disturbance of any of the following materials and report damage)									l
	Pre	pared By: Philip Conteh										l
			Yellow= Assumed (Contact OEMS for assessment and sa report dan	mpling prior to	the disturbance	of these materia	als and					l
				lage)								l
			Green= Non Asbestos Containing/Non Suspect Material ( Analysis has indicated NO Asbestos present or NO ASBE	These materia	als have been sa	mpled and Labo aterials are not t	oratory					l
			known to contain	n Asbestos)			ypically					l
	Certifica	ion No. AIC-0586		1	1					1	1	l
E I												l
e					Confirmed/Aco			A				l
e					umed/NAD/			of				l
n t		On Site Room Name	Material Description	Type code	Non Suspect ACM	Amount of Material	SF LF EA	damag e	Condition Code	Action code	Comments/Description/Notes	l
1	3	Classroom 341	Partition Room Dividers	NF1	BE: Non	377	SF	0	0000	REM	Commenter Decomption/reces	
1	3	Classroom 340	Partition Room Dividers	NF1	BE: Non	754	SF	0		REM		l
1	3	Custodial Closet next to Boy's Restroom	Sheetrock Wall	NF1 NF1	BE: Non	33	SF	0		REM		
1	3	Classroom 337	Sink Undercoat Mastic	NF1	Assumed	21	SF	0		REM		1
1	3	Restroom and Stairwell next to Classroom	Sheetrock Wall	NF1	BE: Non	33	SF	0	ND	REM		1
1	3	Classroom 342-A	Sheetrock Wall	NF1	BE: Non	325	SF	0	ND	REM		
1	3	Room 342-B Speech-Language Office	Sheetrock Wall	NF1	BE: Non	325	SF	0	ND	REM		
1	3	Classroom 335	Sheetrock Wall	NF1	BE: Non	780	SF	0	ND	REM		
1	3	Classroom 334 Cirl's Postroom Pine Chase	Sheetrock Wall	NF1	BE: Non	390	SF	0	ND	REM		
1	3	Custodial Closet next to Girl's Restroom	Sheetrock Wall	NF1	BE: Non	33	SF	0	ND	REM		
1	3	Classroom 331	Partition Room Dividers	NF1	BE: Non	364	SF	0	ND	REM		
1	3	Classroom 330	Partition Room Dividers	NF1	BE: Non	728	SF	0	ND	REM		
1	3	Classroom 329	Partition Room Dividers Sheetrock Wall	NF1 NF1	BE: Non	350	SF	0	ND	REM		
1	2	Storage Room next to Classroom 227	Pipe Fitting Insulation	Fri	Confirmed	8	EA	0	ND	REM		
1	2	Storage Room next to Classroom 227	Pipe Insulation 2-6 inch	Fri	Confirmed	28	LF	0	ND	REM		
1	2	Classroom 227	Pipe Fitting Insulation	Fri	Confirmed	14	EA	0	ND	REM		
1	2	Classroom 227 Classroom 227	Pipe Insulation 2-6 inch Partition Room Dividers	Fri NE1	BE: Non	50 351	SF	0	ND	REM		<u> </u>
1	2	Classroom 227	Sheetrock Wall	NF1	BE: Non	83	SF	0	ND	REM		
1	2	Classroom 227 Restroom	Sheetrock Wall	NF1	BE: Non	160	SF	0	ND	REM		
1	2	Classroom 226	Pipe Fitting Insulation	Fri	Confirmed	9	EA	0	ND	REM		
1	2	Classroom 226	Partition Room Dividers	NF1	BE: Non	312	SF	0	ND	REM		
1	2	Classroom 226	Sheetrock Wall	NF1	BE: Non	340	SF	0	ND	REM		
1	2	Classroom 226 Restroom	Sheetrock Wall	NF1	BE: Non	160	SF	0	ND	REM		
1	2	Classroom 225	Chalkboard Glue Dots	NF1 Fri	Assumed	40	SF	0	ND	REM	updated WCE-01/21/20	
1	2	Classroom 225	Pipe Insulation 2-6 inch	Fri	Confirmed	60	LF	0	ND	REM		
1	2	Classroom 225	Sheetrock Wall	NF1	BE: Non	180	SF	0	ND	REM		ĺ
1	2	Classroom 224	Pipe Fitting Insulation	Fri	Confirmed	12	EA	0	ND	REM		4
1	2	Classroom 224	Pipe Insulation 2-6 Inch	NF1	BE: Non	35 135	LF SF	0		REM		l
1	2	Classroom 224 Restroom	Sheetrock Wall	NF1	BE: Non	290	SF	0	ND	REM		
1	2	Pipe Chase in Classroom 224 Restroom	Х	NF1	X	Х	Х	0	ND	REM	Pipe Chase Not Inspected.	
1	2	Hallway from Classrooms 224 to 227	Pipe Fitting Insulation	Fri	Confirmed	24	EA	0	ND	REM		l
	2	Office	Sheetrock Wall	NF1	BE: Non	33	SF	0	ND	REM		i
1	2	Counselor's Office and Stairwell next to	Sheetrock Wall	NF1	BE: Non	33	SF	0	ND	REM		[
1	2	Counselor's Office next to Classroom 223A	Floor Tile VAT 12" x 12"	NF1	Assumed	120	SF	0	ND	REM		l
1	2	Counselor's Office Restroom	Ploor Tile VAT 12" X 12" Sheetrock Wall	NF1	Assumed BE: Non	120	SF SF	0		REM		
1	2	Office Restroom	X	NF1	X	X	X	Ő	ND	REM	Pipe Chase Not Inspected.	

1	2	Counselor's Office Computer Server Room	Sheetrock Wall	NF1	BE: Non	78	SF	0	ND	REM		
1	2	Counselor's Office Computer Server Room	Eloor Tile VAT 12" x 12"	NF1	Assumed	10	SF	0	ND	REM		
1	2	Counselor's Office Computer Server Room	Floor Tile VAT 12" x 12"	NF1	Assumed	11	SE	0	ND	REM		
1	2	Counselor's Office Middle Storage Closet	Sheetrock Wall	NF1	BE: Non	180	SE	0	ND	REM		
1	2	Counselor's Office Middle Storage Closet	Floor Tile VAT 12" x 12"	NF1	Assumed	25	SE	0	ND	REM		
1	2	Counselor's Office Middle Storage Closet	Eleer Tile VAT 12" x 12"	NF1	Assumed	25	SE	0	ND	PEM		
	2	Classroom 223	Chalkhoard Clue Date	NF1	Assumed	108	SE	0	ND	REM	updated WCE-01/21/20	
1	2	Classroom 222	Dine Insulation 2.6 inch	INI 1 Eri	Confirmed	20	JE	0	ND	DEM	upuated WCL-01/21/20	
1	2	Classroom 222	Fipe insulation 2-0 mon	NE1	Accumed	20	CE CE	0	ND	DEM		
	2	Classionii 223	Pidor Tile VAT 12 X 12		Assumed	/00	55	0	ND	REIVI		
1	2	Classroom 223 Coat Closet	Pipe Fitting Insulation	FFI	Confirmed	8	EA	0	ND	REM		
1	2	Classroom 223 Coat Closet	Pipe Insulation 2-6 Inch	FFI	Confirmed	19		0	ND	REM		
1	2	Stairwell next to Classroom 223	Pipe Fitting Insulation	FFI	Confirmed	9	EA	0	ND	REM		
1	2	Stairwell next to Classroom 223	Pipe Insulation 2-6 inch	Fri	Confirmed	28		0	ND	REM		
1	2	Auditorium Stage	Pipe Fitting Insulation	Fri	Confirmed	1	EA	0	ND	REM		
1	2	Auditorium Stage	Pipe Insulation 2-6 inch	Fri	Confirmed	25	LF	0	ND	REM		
1	2	Auditorium Stage	Floor Tile VAT 12" x 12"	NF1	Assumed	300	SF	0	ND	REM		
1	2	Auditorium	Pipe Fitting Insulation	Fri	Confirmed	35	EA	0	ND	REM		
1	2	Auditorium	Pipe Insulation 2-6 inch	Fri	Confirmed	182	LF	0	ND	REM		
1	2	Classroom 228	Pipe Fitting Insulation	Fri	Confirmed	20	EA	0	ND	REM		
1	2	Classroom 228	Pipe Insulation 2-6 inch	Fri	Confirmed	70	LF	0	ND	REM		
1	2	Classroom 228 Storage Closet	Pipe Fitting Insulation	Fri	Confirmed	8	EA	0	ND	REM		
1	2	Classroom 228 Storage Closet	Pipe Insulation 2-6 inch	Fri	Confirmed	30	LF	0	ND	REM		
1	2	Stairwell next to Classroom 219	Pipe Fitting Insulation	Fri	Confirmed	8	EA	0	ND	REM		
1	2	Stairwell next to Classroom 219	Pipe Insulation 2-6 inch	Fri	Confirmed	32	LF	0	ND	REM	I I	
1	2	Classroom 228	Chalkboard Glue Dots	NF1	Assumed	90	SF	0	ND	REM	updated - updated WCE-01/21/2	0
1	2	Classroom 219	Chalkboard Glue Dots	NF1	Assumed	325	SF	0	ND	REM	updated - updated WCE-01/21/2	0
1	2	Classroom 219	Pipe Fitting Insulation	Fri	Confirmed	20	EA	0	ND	REM		
1	2	Classroom 219	Pipe Insulation 2-6 inch	Fri	Confirmed	80	LF	0	ND	REM		
1	2	Classroom 219 Coat Closet	Pipe Fitting Insulation	Fri	Confirmed	8	EA	0	ND	REM		
1	2	Classroom 219 Coat Closet	Pipe Insulation 2-6 inch	Fri	Confirmed	19	LF	0	ND	REM		
1	2	Restroom	Sheetrock Wall	NF1	BE: Non	33	SF	0	ND	REM		
1	2	Faculty Lounge	Pipe Fitting Insulation	Fri	Confirmed	12	EA	0	ND	REM		
1	2	Faculty Lounge	Pipe Insulation 2-6 inch	Fri	Confirmed	50	LF	0	ND	REM		
1	2	Faculty Lounge	Sheetrock Wall	NF1	BE: Non	210	SF	0	ND	REM		
1	2	Eaculty Lounge	Eloor Tile VAT 12" x 12"	NF1	Assumed	250	SE	0	ND	REM		
1	2	Faculty Lounge	Eloor Tile VAT 12" x 12"	NF1	Assumed	374	SE	0	ND	REM		
	2	Faculty Lounge Computer Server Room	Sheetrock Wall	NF1	BE: Non	192	SE	0	ND	REM		
	2	Faculty Lounge Computer Server Room	Eloor Tile VAT 12" x 12"	NF1	Assumed	24	SE	0	ND	REM		
1	2	Classroom 217	Chalkhoard Glue Date	NF1	Assumed	1/1	SE	0	ND	PEM	updated WCE-01/21/20	
1	2	Classroom 217	Pine Insulation 2-6 inch	Fri	Confirmed	22	IF	0	ND	REM	upuated WCL-01/21/20	
1	2	Classroom 217	Shootrook Wall	NE1	DE: Non	242	CE	0	ND	DEM		
1	2	Classroom 217	Sine Lindercost Mostic		DE. NUII	12	OF OF	0	ND	DEM	updated updated WCE_01/21/20	
1	2	Classioon 217			Assumed	12	OF OF	0	ND	DEM	upuated upuated WCL-01/21/20	
1	2	Classioon 217			Assumed	330	OF OF	0	ND	REIVI		
1	2	Classroom 217	Pidor Tile VAT 12" X 12"	NF1	Assumed	330	SF	0	ND	REM		
1	2	INIC/Library	Pipe Fitting Insulation	FFI	Confirmed	26	EA	0	ND	REM		
1	2	IMC/Library	Pipe insulation 2-6 inch		Confirmed	94		0	ND	REM		
1	2	Stairs across from Stairwell near	Pipe Fitting Insulation	Fri	Confirmed	32	EA	0	ND	REM		
	2	Stairs across from Stairwell near	Pipe insulation 2-6 inch		Contirmed	162	LF	0	ND	KEM		
1	2	Stairs across from Stairwell near	Sheetrock Wall	NF1	BE: Non	33	SF	0	ND	REM	ļ ļ	
1	2	IMC/Library	Pipe Insulation 2-6 inch	Fri	Contirmed	40	LF	0	ND	REM		
1	2	IMC/Library	Pipe Insulation 2-6 inch	Fri	Confirmed	10	LF	0	ND	REM		
1	1	Storage Room next to Classroom 101	Pipe Fitting Insulation	Fri	Confirmed	8	EA	0	ND	REM		
1	1	Storage Room next to Classroom 101	Pipe Insulation 2-6 inch	Fri	Confirmed	30	LF	0	ND	REM		
1	1	Classroom 101	Pipe Fitting Insulation	⊦ri	Confirmed	13	EA	0	ND	REM		
1	1	Classroom 101	Pipe Insulation 2-6 inch	Fri	Confirmed	70	LF	0	ND	REM		
1	1	Classroom 101	Partition Room Dividers	NF2	BE: Non	351	SF	0	ND	REM		
1	1	Classroom 102	Pipe Fitting Insulation	Fri	Confirmed	14	EA	0	ND	REM		
1	1	Classroom 102	Pipe Insulation 2-6 inch	Fri	Confirmed	70	LF	0	ND	REM		
1	1	Classroom 102	Partition Room Dividers	NF2	BE: Non	702	SF	0	ND	REM		
1	1	Classroom 102	Chalkboard Glue Dots	NF1	Assumed	100	SF	0	ND	REM	Westchester Environmental-01/2	21/20
1	1	Classroom 103	Pipe Fitting Insulation	Fri	Confirmed	18	EA	0	ND	REM		
1	1	Classroom 103	Pipe Insulation 2-6 inch	Fri	Confirmed	60	LF	0	ND	REM		
1	1	Classroom 103	Partition Room Dividers	NF2	BE: Non	364	SF	0	ND	REM		
1	1	Classroom 103	Chalkboard Glue Dots	NF1	Assumed	100	SF	0	ND	REM	Westchester Environmental-01/2	21/20
1	1	Nurse's Office	Pipe Fitting Insulation	Fri	Confirmed	13	EA	0	ND	REM		
1	1	Nurse's Office	Pipe Insulation 2-6 inch	Fri	Confirmed	40	LF	0	ND	REM		
1	1	101	Pipe Fitting Insulation	Fri	Confirmed	24	EA	0	ND	REM		
1	1	101	Pipe Insulation 2-6 inch	Fri	Confirmed	84	LF	0	ND	REM		
1	1	Custodial Closet near Men's Restroom	Sheetrock Wall	NF1	BE: Non	33	SF	0	ND	REM		
1	1	Classroom 105	Pipe Fitting Insulation	Fri	Confirmed	4	EA	0	ND	REM	1	
1	1	Classroom 105	Sheetrock Wall	NF1	BE: Non	122	SF	0	ND	REM	1	
1	1	Classroom 105	Eloor Tile VAT 12" x 12"	NF1	Assumed	325	SE	0	ND	REM		
1	1	Lounge	Sheetrock Wall	NF1	BE: Non	110	SF	0	ND	REM		
					22.11011	. 10	5	3		1.1		

1	1	1		Chalkboard Glue Dots	NF1	Assumed	300	SF	0	ND	REM	WCE-01/21/20	
1		1	Classroom 105	Pipe Fitting Insulation	Fri	Confirmed	14	EA	0	ND	REM		
1		1	Classroom 105	Pipe Insulation 2-6 inch	Fri	Confirmed	70	LF	0	ND	REM		
1		1	Classroom 105	Floor Tile VAT 9" x 9"	NF1	Confirmed	264	SF	0	ND	REM		
1		1	Classroom 105 Coat Closet	Floor Tile VAT 9" x 9"	NF1	Confirmed	80	SF	0	ND	REM		
1		1	Stairwell next to Classroom 105	Pipe Fitting Insulation	Fri	Confirmed	8	EA	0	ND	REM		
1		1	Stairwell next to Classroom 105	Pipe Insulation 2-6 inch	Fri	Confirmed	30	LF	0	ND	REM		
1		1	Classroom 106	Chalkboard Glue Dots	NF1	Assumed	460	SF	0	ND	REM	updated WCE-01/21/20	
1		1	Classroom 106	Pipe Fitting Insulation	Fri	Confirmed	14	EA	0	ND	REM		
1		1	Classroom 106	Pipe Insulation 2-6 inch	Fri	Confirmed	70	LF	0	ND	REM		
						BE: Non							
1		1	Classroom 106	Partition Room Dividers	NF2	Suspect ACM	358	SF	0	ND	REM		
1		1	Classroom 107	Chalkboard Glue Dots	NF1	Assumed	310	SF	0	ND	REM	updated WCE-01/21/20	
1		1	Classroom 107	Pipe Fitting Insulation	Fri	Confirmed	14	EA	0	ND	REM		
1		1	Classroom 107	Pipe Insulation 2-6 inch	Fri	Confirmed	70	LF	0	ND	REM		
1		1	Classroom 107	Partition Room Dividers	NF2	BE: NON	715	5F	0	ND	REM	undated WCE 01/21/20	
1		1	Room 114 Head Start Program	Chaikboard Glue Dots	INF1 Evi	Assumed	90	5F	0	ND	REM	updated wCE-01/21/20	
1		1	Room 114 Head Start Program	Pipe Insulation 2.6 inch	Eri	Confirmed	70	LE	0	ND	DEM		
1		1	Room 114 Head Start Program	Fipe insulation 2-0 inch Floor Tile VAT 12" x 12"	NE1	Assumed	/0	SE SE	0	ND	REM		
1		1	Room 114 Head Start Program	Floor Tile VAT 12" x 12"	NF1	Assumed	437	SE	0	ND	REM		
1		1	Room 114 Storage Closet	Floor Tile VAT 12" x 12"	NF1	Assumed	17	SF	0	ND	REM		
1		1	Room 114 Storage Closet	Floor Tile VAT 12" x 12"	NF1	Assumed	18	SF	0	ND	REM		
1		1	Classroom 108	Chalkboard Glue Dots	NF1	Assumed	315	SF	Ő	ND	REM	updated WCE-01/21/20	
1		1	Classroom 108	Pipe Fitting Insulation	Fri	Confirmed	14	EA	0	ND	REM		
1		1	Classroom 108	Pipe Insulation 2-6 inch	Fri	Confirmed	70	LF	0	ND	REM		
1		1	Classroom 108	Partition Room Dividers	NF2	BE: Non	358	SF	0	ND	REM		
1		1	Office	Pipe Fitting Insulation	Fri	Confirmed	8	EA	0	ND	REM		
1		1	Office	Pipe Insulation 2-6 inch	Fri	Confirmed	30	LF	0	ND	REM		
1		1	Chalkboard Glue Dots	Chalkboard Glue Dots	NF1	Assumed	315	SF	0	ND	REM	WCE-01/21/20	
1		1	Room 109 Head Start Program	Pipe Fitting Insulation	Fri	Confirmed	16	EA	0	ND	REM		
1		1	Room 109 Head Start Program	Pipe Insulation 2-6 inch	Fri	Confirmed	56	LF	0	ND	REM		
1		1	Room 109 Restroom	Sheetrock Wall	NF1	BE: Non	45	SF	0	ND	REM		
1		1	Room 109 Storage Room	Sheetrock Wall	NF1	BE: Non	65	SF	0	ND	REM		
1		1	Principal's Office	Floor Tile VAT 12" x 12"	NF1	Assumed	272	SF	0	ND	REM		
1		1	Principal's Office	Floor Tile VAT 12" x 12"	NF1	Assumed	68	SF	0	ND	REM		
1		1	Main Office	Pipe Fitting Insulation	Fri	Confirmed	20	EA	0	ND	REM		
1		1	Main Office	Pipe Insulation 2-6 inch	Fri	Confirmed	54		0	ND	REM		
1		1	Main Office	Sheetrock Wall	NF1	BE: Non	326	SF	0	ND	REM		
1		1	Custodial Closet next to Main Office	Sneetrock wall	INF1 Evi	BE: NON	33	5F	0	ND	REM		
1		1	Gymnasium	Pipe Fitting Insulation	Fri	Confirmed	3/	LE	0	ND	REM		
1		1	Gymnasium	Pipe Insulation 2-6 Inch Pipe Fitting Insulation	FII Eri	Confirmed	194		0	ND	DEM		
1		1	Gymnasium	Pipe Insulation	Fri	Confirmed	24		0	ND	REIVI		
1		1	Office to Classroom 105	Pipe Fitting Insulation	Fri	Confirmed	92	EA	0	ND	REM		
1		1	Office to Classroom 105	Pipe Insulation 2-6 inch	Fri	Confirmed	126	LF	0	ND	REM		
1		1	Office to Classroom 105	Sheetrock Wall	NF1	BE: Non	33	SF	0	ND	REM		
1		BS	Room B-10 After School Program	Pipe Fitting Insulation	Fri	Confirmed	18	EA	0	ND	REM		
1		BS	Room B-10 After School Program	Pipe Insulation 2-6 inch	Fri	Confirmed	100	LF	0	ND	REM		
1		BS	Room B-10 After School Program	Sheetrock Wall	NF1	BE: Non	332	SF	0	ND	REM		
1		BS	Room B-10 After School Program	Floor Tile VAT 12" x 12"	NF1	Assumed	255	SF	0	ND	REM		
1		BS	Room B-10 After School Program	Floor Tile VAT 12" x 12"	NF1	Assumed	256	SF	0	ND	REM		
1		BS	Room B-10 Storage Closet	Pipe Fitting Insulation	Fri	Confirmed	6	EA	0	ND	REM		
1		BS	Room B-10 Storage Closet	Pipe Insulation 2-6 inch	Fri	Confirmed	15	LF	0	ND	REM	l	
1		BS	Room B-10 Storage Closet	Sheetrock Wall	NF1	BE: Non	78	SF	0	ND	REM		
1		BS	10	Sheetrock Wall	NF1	BE: Non	102	SF	0	ND	REM	Į	
1		BS	10	Floor Tile VAT 12" x 12"	NF1	Assumed	20	SF	0	ND	REM		
1		BS	10	Floor Tile VAT 12" x 12"	NF1	Assumed	20	SF	0	ND	REM		
1		BS	Classroom B-9	Pipe Fitting Insulation	Fri	Contirmed	17	EA	0	ND	REM		
$-\frac{1}{4}$		BS BS	Classroom B-9	Pipe insulation 2-6 inch		Contirmed	80	LF	0	ND	REM		
		B2	Classroom B-9	Sheetrock Wall		BE: NON	300	51	0	ND	REM	l	
1		BS	Classroom B-9	Floor Tile \/AT 12" x 12"	NF1	Assumed	378	OF SE	0		REM	1	
		BS	9 and R=10	Pine Fitting Insulation	Fri	Confirmed	62	EV.	0		REM	1	
1		BS	9 and B-10	Pipe Insulation 2-6 inch	Fri	Confirmed	182	LF	0	ND	REM		
1		BS	9 and B-10	Pipe Insulation > 6 inch	Fri	Assumed	35	LF	0	ND	REM	1	
1		BS	Building Engineer's Storage Area	Pipe Fitting Insulation	Fri	Confirmed	84	ĒA	0	ND	REM	1	
1		BS	Building Engineer's Storage Area	Pipe Insulation 2-6 inch	Fri	Confirmed	150	LF	0	ND	REM	1	
1		BS	Building Engineer's Storage Area	Pipe Insulation > 6 inch	Fri	Assumed	50	LF	0	ND	REM	1	
1		BS	Building Engineer's Storage Area	Sheetrock Wall	NF1	BE: Non	347	SF	0	ND	REM		
1		BS	Building Engineer's Office	Pipe Fitting Insulation	Fri	Confirmed	2	EA	0	ND	REM		
1		BS	Building Engineer's Office	Pipe Insulation 2-6 inch	Fri	Confirmed	20	LF	0	ND	REM		
1		BS	Building Engineer's Office	Sheetrock Wall	NF1	BE: Non	347	SF	0	ND	REM		

1	DC	Storage Area and Boule Cofetoria	Dina Fitting Insulation	Eri	Confirmed	14	E۸	0	ND	DEM		(
	53	Storage Area and Boy's Caletena	Pipe Fitting Insulation		Continned	14	EA	0	ND	REIVI		
1	BS	Storage Area and Boy's Cafeteria	Pipe Insulation 2-6 inch	Fri	Confirmed	50	LF	0	ND	REM		L
1	BS	Storage Area and Boy's Cafeteria	Pipe Insulation > 6 inch	Fri	Assumed	34	LF	0	ND	REM		L
1	BS	10	Pipe Fitting Insulation	Fri	Confirmed	26	EA	0	ND	REM	No Access/Not Inspected	1
1	BS	10	Pipe Insulation 2-6 inch	Fri	Confirmed	40	LF	0	ND	REM	No Access/Not Inspected	1
1	BS	Fan Room No. 1 near Room B-9	Pipe Fitting Insulation	Fri	Confirmed	49	EA	0	ND	REM		1
1	BS	Fan Room No. 1 near Room B-9	Pipe Insulation 2-6 inch	Fri	Confirmed	73	LF	0	ND	REM		
1	BS	Fan Room No. 1 near Room B-9	Pipe Insulation > 6 inch	Fri	Assumed	16	LF	0	ND	REM		1
1	BS	Fan Room No. 1 near Room B-9	Vibration Damper Cloth	NF2	Assumed	12	SE	0	ND	REM		(
1	BS	Boy's Restroom and Fan Room No. 1	Pine Fitting Insulation	Fri	Confirmed	25	EA	0	ND	REM		(
1	BS	Boy's Restroom and Fan Room No. 1	Pipe Insulation 2-6 inch	Fri	Confirmed	52		0	ND	REM		(
1	BS	Boy's Restroom and Fan Room No. 1		Fri	Assumed	10	IF	0	ND	REM		( )
1	DO	Kindergerden Lungbroom	Pipe Fitting Inculation	Fri	Confirmed	20		0	ND	DEM		1
1	DO	Kindergerden Lunchroom	Pipe Insulation 2.6 inch	Fri	Confirmed	72		0	ND	DEM		1
1	DO	Hood Start Storage Room	Pipe Fitting Insulation	Eri	Confirmed	25		0	ND	DEM		
1	DO	Head Start Storage Room	Pipe Insulation	Fri	Confirmed	33		0	ND	DEM		
1	DO DC	Head Start Storage Room	Pipe Insulation 2-6 inch		Continned	90		0	ND	DEM		
	D0	Head Start Storage Room	Pipe insulation > 6 Inch		Assumed	13		0	ND	REIVI		1
1	BS	Head Start Storage Room	Vibration Damper Cloth	NF2	Assumed	12	5F	0	ND	REM		l
1	BS	Storage Closet next to Art Room	Pipe Fitting Insulation	Fri	Confirmed	23	EA	0	ND	REM	No Access; Not Inspected.	l
1	BS	Storage Closet next to Art Room	Pipe Insulation 2-6 inch	Fri	Confirmed	48	LF	0	ND	REM	No Access; Not Inspected.	
1	BS	Art Room	Pipe Fitting Insulation	Fri	Confirmed	49	EA	0	ND	REM		l
1	BS	Art Room	Pipe Insulation 2-6 inch	Fri	Confirmed	264	LF	0	ND	REM		
1	BS	Art Room	Sink Undercoat Mastic	NF1	Assumed	7	SF	0	ND	REM		(
1	BS	Art Room	Floor Tile VAT 12" x 12"	NF1	Assumed	658	SF	0	ND	REM		1
1	BS	Art Room	Floor Tile VAT 12" x 12"	NF1	Assumed	658	SF	0	ND	REM		
1	BS	Room No. 3	Pipe Fitting Insulation	Fri	Confirmed	27	EA	0	ND	REM		1
1	BS	Room No. 3	Pipe Insulation 2-6 inch	Fri	Confirmed	65	LF	0	ND	REM		
1	BS	Room No. 3	Pipe Insulation > 6 inch	Fri	Assumed	9	LF	0	ND	REM		1
1	BS	Room No. 3	Transite Stalls	NF2	Assumed	87	SF	0	ND	REM		
1	BS	Room next to Art Room	Pipe Fitting Insulation	Fri	Confirmed	64	EA	0	ND	REM		1
1	BS	Room next to Art Room	Pipe Insulation 2-6 inch	Fri	Confirmed	420	LF	0	ND	REM		
1	BS	Room next to Art Room	Pipe Insulation > 6 inch	Fri	Assumed	30	LF	0	ND	REM		
1	BS	Kindergarden Lunchroom	Pipe Fitting Insulation	Fri	Confirmed	21	EA	0	ND	REM		1
1	BS	Kindergarden Lunchroom	Pipe Insulation 2-6 inch	Fri	Confirmed	110	LF	0	ND	REM		
1	BS	Kindergarden Lunchroom	Pipe Insulation $> 6$ inch	Fri	Assumed	83	LE	0	ND	REM		(
1	BS	Stainwell pext to Kindergarden Lunchroom	Pipe Fitting Insulation	Fri	Confirmed	8		0	ND	REM		(
1	BS	Stainwell next to Kindergarden Lunchroom	Pipe Insulation 2-6 inch	Fri	Confirmed	30		0	ND	REM		
1	DO	Girl's Cafetoria	Dipe Fitting Inculation	Fri	Confirmed	20		0	ND	DEM		1
1	DO	Cirlla Cafataria	Pipe Fitting Insulation	T H	Confirmed	29		0	ND			
	D0	Gill's Caleteria	Pipe Insulation 2-6 Inch	FII Fui	Coniimied	170		0	ND	REIVI		1
1	BS	Girl's Careteria	Pipe insulation > 6 inch		Assumed	50		0	ND	REM		
1	BS	Girl's Careteria	FIGOF THE VAT 12" X 12"	NF1	Assumed	602	5F	0	ND	REM		
1	BS	Giris Careteria		NF1	Assumed	602	5F	0	ND	REM		I
1	BS	Kitchen	Floor Tile VAT 12" x 12"	NF1	Assumed	105	SF	0	ND	REM		
1	BS	Kitchen	Floor The VAT 12" X 12"		Assumed	105	SF	0	ND	REM		H
1	BS	and Giri's Cateterias	Pipe Fitting Insulation	Fri	Contirmed	5	EA	0	ND	REM		ł
1	BS	and Girl's Cateterias	Pipe Insulation 2-6 inch	Fri	Contirmed	20	LF	0	ND	REM		
1	BS	and Girl's Cafeterias	Pipe Insulation > 6 inch	⊦ri	Assumed	10	LF	0	ND	REM		
1	BS	and Girl's Cafeterias	Floor Tile VAT 12" x 12"	NF1	Assumed	25	SF	0	ND	REM		
1	BS	and Girl's Cafeterias	Floor Tile VAT 12" x 12"	NF1	Assumed	25	SF	0	ND	REM		
1	BS	Boy's Cafeteria	Pipe Fitting Insulation	Fri	Confirmed	41	EA	0	ND	REM		
1	BS	Boy's Cafeteria	Pipe Insulation 2-6 inch	Fri	Confirmed	150	LF	0	ND	REM		
1	BS	Boy's Cafeteria	Pipe Insulation > 6 inch	Fri	Assumed	45	LF	0	ND	REM		L
1	BS	Boy's Cafeteria	Floor Tile VAT 12" x 12"	NF1	Assumed	602	SF	0	ND	REM		
1	BS	Boy's Cafeteria	Floor Tile VAT 12" x 12"	NF1	Assumed	602	SF	0	ND	REM		
1	BS	Maintenance Staff Office and Breakroom	Pipe Fitting Insulation	Fri	Confirmed	13	EA	0	ND	REM		
1	BS	Maintenance Staff Office and Breakroom	Pipe Insulation 2-6 inch	Fri	Confirmed	65	LF	0	ND	REM		
1	BS	Work Area for Fan Room No. 2	Pipe Fitting Insulation	Fri	Confirmed	38	EA	0	ND	REM		
1	BS	Work Area for Fan Room No. 2	Pipe Insulation 2-6 inch	Fri	Confirmed	110	LF	0	ND	REM		
1	BS	Work Area for Fan Room No. 2	Pipe Insulation > 6 inch	Fri	Assumed	18	LF	0	ND	REM		1
1	BS	Fan Room No. 2	Pipe Fitting Insulation	Fri	Confirmed	3	EA	0	ND	REM		
1	BS	Fan Room No. 2	Pipe Insulation 2-6 inch	Fri	Confirmed	10	LF	0	ND	REM		
1	BS	Room	Emergency Generator Insulation	NF2	Assumed	18	LF	0	ND	REM		
1	2	Classroom 228	Chalkboard Glue Dots	NF1	Assumed	90	SF	0	ND	REM	UPDATED updated WCE-01/21/20	1