



CECIL COUNTY PUBLIC SCHOOLS PURCHASING DEPARTMENT

GEORGE WASHINGTON CARVER EDUCATION LEADERSHIP CENTER
201 BOOTH STREET • ELKTON, MD 21921

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Jeffrey A. Lawson, Ed.D.
Superintendent of Schools

Diana B. Hawley
President, Board of Education

March 20, 2024

CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT PROJECT

ADDENDUM #02

This addendum is to revise the bid submission date and time, AHERA report, Bid RFIS and contract specification modifications as noted below. Proposers and related parties will be responsible to have read and understand all documents, the scope of work, addenda and all related solicitation documents issued. These documents will become attached to and part of the solicitation and award of bid contract.

Anticipated date of next addendum issuance: on or before March 25, 2024.

ITEM No. 1 The date and time of Bid is revised as follows:

BID DATE: Thursday, April 4, 2024 @ 1:00PM (ET), Local Time

ITEM No. 2 Should the CCPS Central office close due to an unexpected circumstance, the bid opening will be on the next scheduled business day for CCPS Offices, Friday, April 5, 2024, @ 1:00 PM (ET), Local Time

ITEM No. 3 AHERA SIX-MONTH SURVEILLANCE INSPECTION dated September 13, 2023

ITEM No. 4 BID RFIS – Received on or before March 17, 2024

ITEM No. 5 CONTRACT SPECIFICATIONS – Changes and clarifications

Authorized Signature/Date: _____

Printed Name/Title: _____

Contractor Name: _____

Address: _____

***Note: Bidder must sign and submit Addenda with the proposal submission. The same person signing the Addenda acknowledgement(s) must sign the Bid Form.**



Prepared for:

**CECIL COUNTY PUBLIC SCHOOLS
900 NORTH EAST ROAD
NORTH EAST, MARYLAND 21901**

AHERA SIX-MONTH SURVEILLANCE INSPECTION

**NORTH EAST HIGH SCHOOL
300 IRISHTOWN ROAD
TOWN OF NORTH EAST, CECIL COUNTY, MARYLAND**

SEPTEMBER 13, 2023

Project number: **SO2740**

Prepared by: **ENVIROSURE, INC.**

ZACHARY BOOKER
EPA Accredited Asbestos Inspector
Certification No. AI06022023-3

CHARLES M. CHAN
Industrial Hygiene Director
EPA Accredited Asbestos
Inspector/Management Planner
Certification No. AIMPR09082023-1



701 Industrial Drive
Middletown, DE 19709
Phone 302•378•5341
www.envirosureinc.com

September 13, 2023

Project No. SO2740

Andrew Curran
Cecil County Public Schools
900 North East Road
North East, Maryland 21901

RE: SIX-MONTH AHERA SURVEILLANCE REPORT

North East High School
300 Irishtown Road
Town of North East
Cecil County, Maryland

Dear Mr. Curran,

We are pleased to present our Six-Month Surveillance Report for North East High School conducted during August of 2023. We trust that the information presented in this report meets your needs.

We appreciate the opportunity to provide you and Cecil County Public Schools with professional environmental services. Should you require additional information or have questions regarding this report, please contact me at 302.378.5341 or via email at charles@envirosureinc.com.

Sincerely,
ENVIROSURE, INC.

A handwritten signature in blue ink, appearing to read 'Charles M. Chan'.

Charles M. Chan
Industrial Hygiene Director

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1.0 INTRODUCTION

EnviroSure, Inc. (EnviroSure) was contracted by Cecil County Public Schools (the Client) to conduct a Six-Month AHERA Surveillance Inspection for Asbestos-Containing Building Materials (ACBMs) in North East High School, located at 300 Irishtown Road in the Town of North East, Maryland.

With the exception of minor damage to non-friable floor tile and cove base mastic, asbestos materials were noted to be undamaged at the time of the inspection.

2.0 PERTINENT REGULATIONS

Federal Regulations: USEPA AHERA Regulation: The U.S. Environmental Protection Agency (USEPA) was required under the Asbestos Hazard Emergency Response Act (AHERA) to produce regulations about asbestos in schools. Under AHERA the schools are required to inspect their buildings for asbestos and develop a plan to manage asbestos.

Periodic Surveillance Plan: At least once every six months after the Management Plan is in effect, periodic surveillance will be conducted in each building that the Local Education Agency (LEA) leases, owns, or otherwise uses as a school building that contains ACBM or is assumed to contain ACBM.

State Regulations: The State of Maryland, Department of the Environment asbestos regulation COMAR 26.11.23 applies to individuals performing asbestos projects in Maryland schools and commercial buildings. The regulation establishes training requirements for accreditation of specific types of disciplines including Asbestos Building Inspectors and Asbestos Abatement Contractors and workers.

3.0 PERIODIC SURVEILLANCE METHODOLOGY

Representative, accessible space in each building was inspected as per USEPA/ASHARA guidelines. Each periodic surveillance includes visually inspecting all areas that are identified in the Management Plan as ACBM or assumed ACBM, record the date of the surveillance, his or her name, and any changes in the condition of the materials, and submit a copy of the record to the Designated Person for inclusion in the Management Plan.

If bulk asbestos samples were collected as part of this Periodic Surveillance, USEPA sampling protocols were utilized to determine the minimum number of samples to be collected in each building. These criteria require that a minimum of three samples be collected for each type of thermal system insulation and from three to seven samples for surfacing material, depending upon the square footage involved. For miscellaneous ACBM, the sample number will typically vary from one to three samples or as necessary to characterize the material with respect to asbestos content.

The Periodic Surveillance was conducted on August 14, 2023, by Zachary Booker, a USEPA accredited Building Inspector; a copy of Mr. Booker's accreditation certificate is

included in **Appendix A**. The inspector 1) conducted a visual inspection and assessment of all friable known or assumed ACBM, 2) visually inspected the condition of all non-friable ACBM, 3) identified homogeneous areas, and 4) recorded required information for inclusion in this Surveillance Report.

4.0 RESULTS

This report shall be retained as part of the AHERA Six-Month Surveillance Inspection records for ACBM located in North East High School and the Cecil County Public Schools Office as part of the AHERA Management Plan. Based on the inspection of known and assumed ACBM, the following deletions/modifications were made to the management plan and drawing:

- All known and assumed accessible ACBM's appear to be in good condition.
- There was no activity involving renovation/demolition in the past six months.

An Asbestos Containing Building Materials Table is included with this report as **Table 1**. A drawing of the ACBM floor tile locations are presented in **Appendix B**. With the exception of minor damage to non-friable floor tile and cove base mastic, Asbestos materials were noted to be undamaged at the time of the inspection. Copies of the Six-Month Reassessment Forms are included as **Appendix C**.

Note: The inspection did not include inaccessible material located inside walls or other inaccessible spaces; roofing material or exterior window glazing or caulk.

Note: Under the AHERA regulations, roofing, transite board and window glazing/caulking on the exterior of schools are not required to be surveyed or sampled as part of the management plan. However, sampling is required to be conducted for exterior building materials prior to renovations that will disturb these materials. In addition, vendors and contractors working on these exterior materials should be made aware that they may contain asbestos.

5.0 RECOMMENDATIONS/REQUIREMENTS

Continued surveillance of all ACBM at six-month and three-year intervals is required.

Prior to any renovation and/or demolition it is recommended to conduct targeted sampling in that area to confirm the presence of ACBMs.

6.0 LIMITATIONS AND EXCEPTIONS

EnviroSure's Periodic Surveillance activities were conducted per the USEPA AHERA requirements. Only areas identified in the Management Plan as ACBM or assumed were surveyed. EnviroSure was not retained to investigate environmental conditions elsewhere on the Site. No warranty, expressed or implied, is made by EnviroSure as to the professional services provided under the Agreement.

This report is intended for the exclusive use of the Client and those corporations, partnerships, or other entities represented by the Client that are formed to acquire or hold title to the Site discussed in this report and may not be relied upon by other parties.

EnviroSure must be contacted by any entity other than the Client who wishes to use this report. Non-compliance with any of these requirements by the Client or any other entity will release EnviroSure from any liability resulting from the use of this report by any unauthorized party and the Client agrees to defend, indemnify, and hold harmless EnviroSure from any claim or liability associated with such unauthorized use or non-compliance.

The Site owner is solely responsible for notifications in accordance with federal, state, and local laws of the existence, release, treatment or disposal of any hazardous substances at the Site. EnviroSure assumes no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous substances encountered or present on the Site, or from the discovery of such hazardous materials.

TABLE

ASBESTOS CONTAINING BUILDING MATERIALS TABLE

Table 1, Confirmed & Assumed ACBM located in North East High School

Asbestos-Containing Building Material	Location	Approximate Quantity	Status
Pipe Fittings	Above Ceiling in the Kitchen, A132, Between C102 and C125; Throughout	Not Quantified	Assumed ACBM Good condition
2-inch Pipe Elbows	Above Ceiling in Weight Room	10 Each	Good condition
9" Floor Tile/ Mastic	Throughout; Some Areas Under Carpet	49,540 Square Feet	Assumed ACBM Good condition
Fire Doors	Throughout	15 Doors	Assumed ACBM Good condition
Cove Base Mastic	Throughout	5,550 Linear Feet	Assumed ACBM Good condition
Chalkboard Mastic	Classrooms	90 Boards	Assumed ACBM Good condition
12" Floor Tile/ Mastic	Throughout	25,000 Square Feet	Assumed ACBM Good condition
Drywall/ Joint Compound	Throughout	43, 600 Square Feet	Assumed ACBM Good condition

A drawing of the ACBM floor tile locations are presented in **Appendix B**. With the exception of minor damage to non-friable floor tile, and cove base mastic Asbestos

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materials were noted to be undamaged at the time of the inspection.

APPENDIX A

ACCREDITATIONS AND CERTIFICATIONS

AEROSOL MONITORING & ANALYSIS, INC.

This is to certify that
ZACHARY BOOKER
has met the attendance requirements and successfully completed
the course entitled

4-HOUR EPA ASBESTOS INSPECTOR REFRESHER

For Accreditation Under TSCA Title II

06/20/2023

Course Date

06/20/2023

Exam Date

6/20/2024

Expiration Date

STEVE SIERACKI

Principal Instructor

Steve Sieracki

AIR062023-3

Certification No.

VAAIR062023-3

Virginia Certification No.

E. Rush Barnett

Course Director

E. Rush Barnett



Asbestos Accreditation

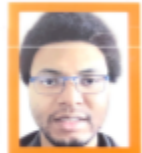
Zachary Booker
Name

Zachary Booker

Signature

Inspector Review

Course Title



Exam Date: 07/13/2023

Course Date: 06/20/2023

Exp Date: 06/20/2024

STATE OF MARYLAND

1331 Ashton Road

P.O. Box 646

Hanover, MD 21076

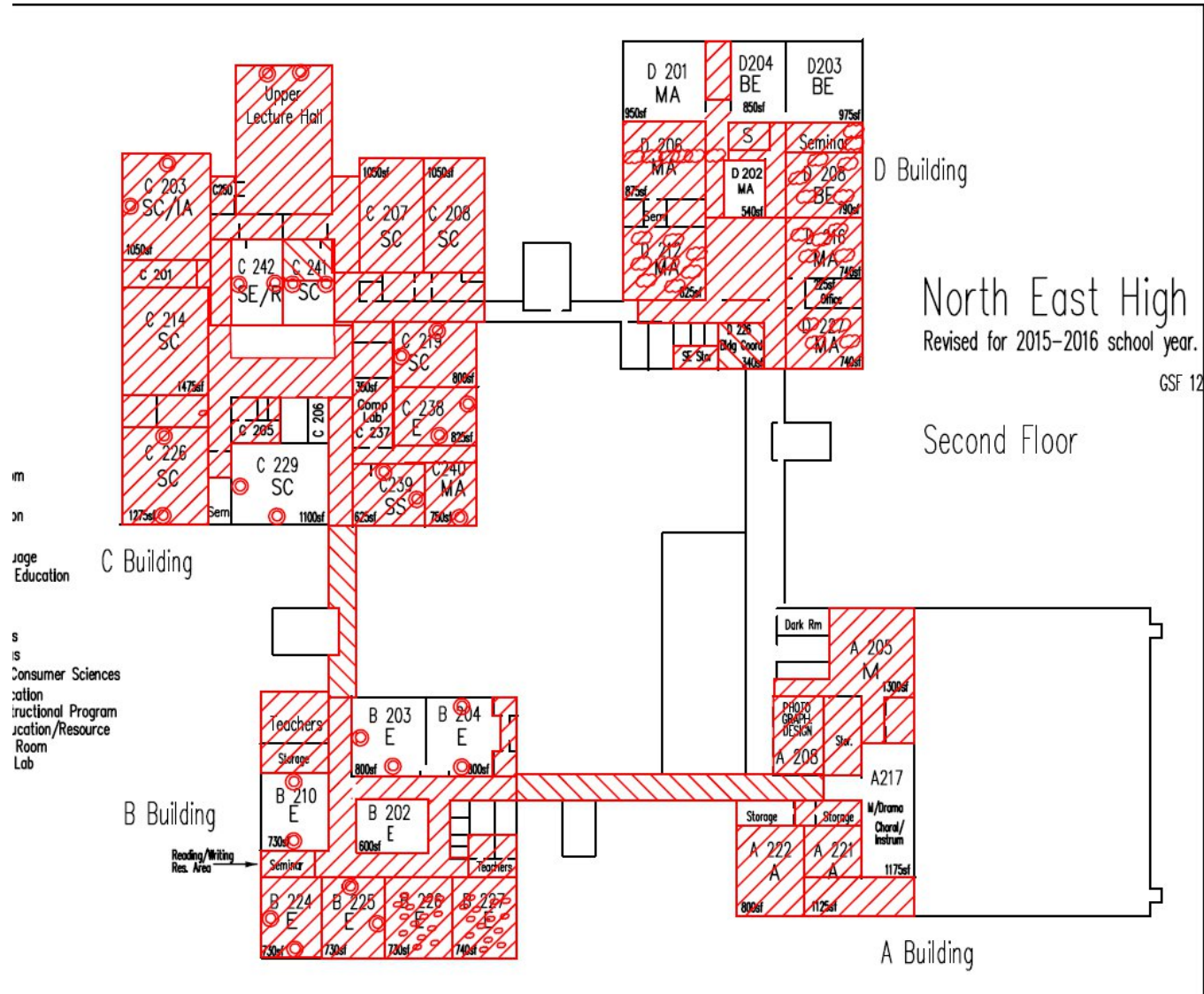
P: 410-61

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230004042

APPENDIX B

DRAWING



Presentation of information is based on best available information. Drawing schematics were provided to Harvard Environmental by The Architect contracted by The Cecil County Public School District #17175 involved the 3-year inspection of building materials existing within school buildings in the Cecil County Public School District. these drawings are not to be considered to scale and are intended to be used for orientation purposes only and identifying the locations of ACM.

- 9X9 Floor tile/mastic
- 12x12 and 14x14 floor tile/mastic
- Estimated locations of chalkboard mastic
- Estimated locations of damaged floor tile/mastic

FIGURE 2

6 MONTH AHERA INSPECTION – AUGUST 2023
NORTH EAST HIGH SCHOOL – SECOND FLOOR
300 IRISHTOWN ROAD
TOWN OF NORTH EAST, CECIL COUNTY, MARYLAND



701 Industrial Drive, Middletown DE, 19709

APPROVED BY C. CHAN
DRAWN BY Z. BOOKER
PROJECT DRAWING NO. SO2740-2

SCALE NOT TO SCALE

DATE 8/24/23

APPENDIX C

SIX-MONTH REASSESSMENT FORMS

**CECIL COUNTY PUBLIC SCHOOLS
SIX MONTH REASSESSMENT FORM
REASSESSMENT OF ASBESTOS-CONTAINING MATERIALS**

Assessor: Zachary Booker
Printed Name


Signature

08/14/2023
Date

Location of ACM: North East High School – Above Ceiling in the Kitchen, A132, Between C102 and C125, and Weight Room

Type of Asbestos-Containing Material(s): (In Bold)	Abatement Status: The material has been: (Check)
<ul style="list-style-type: none">• Sprayed or troweled on ceilings or walls _____• Sprayed or troweled on structural members _____• Thermal system insulation on pipes, tanks or boilers _____• Miscellaneous; Other (describe) _____	Encapsulated____ Enclosed____ Repaired____ Partially or totally removed <u>X</u> Isolated____ There was no activity ____

Assessment: Pipe Fittings

1. Evidence of physical damage:
None

2. Evidence of water damage:
None

3. Evidence of delamination or other deterioration:
None

4. Degree of accessibility of material:
Low

5. Degree of activity near the material:
Low

6. Location in an air plenum, air shaft, or air stream:
Above Ceiling

7. Other observations (including the condition of the encapsulant or enclosure, if any):
Tested positive (+) in 2020

8. Has the condition of the material changed since the last 6-month surveillance?
Pipe fittings were abated from the Concession Stand Room during November 2020

**CECIL COUNTY PUBLIC SCHOOLS
SIX MONTH REASSESSMENT FORM
REASSESSMENT OF ASBESTOS-CONTAINING MATERIALS**

Assessor: Zachary Booker
Printed Name


Signature

08/14/2023
Date

Location of ACM: North East High School – Throughout; Some Areas Under Carpet

Type of Asbestos-Containing Material(s): (In Bold)	Abatement Status: The material has been: (Check)
<ul style="list-style-type: none">• Sprayed or troweled on ceilings or walls _____• Sprayed or troweled on structural members _____• Thermal system insulation on pipes, tanks or boilers _____• Miscellaneous; Other (describe) 9" Floor Tile/Mastic	Encapsulated____ Enclosed____ Repaired____ Partially or totally removed____ Isolated____ There was no activity X

Assessment: 9" Floor Tile/Mastic

1. Evidence of physical damage:
None

2. Evidence of water damage:
None

3. Evidence of delamination or other deterioration:
None

4. Degree of accessibility of material:
Moderate

5. Degree of activity near the material:
Moderate

6. Location in an air plenum, air shaft, or air stream:
No

7. Other observations (including the condition of the encapsulant or enclosure, if any):
No

8. Has the condition of the material changed since the last 6-month surveillance?
No

**CECIL COUNTY PUBLIC SCHOOLS
SIX MONTH REASSESSMENT FORM
REASSESSMENT OF ASBESTOS-CONTAINING MATERIALS**

Assessor: Zachary Booker
Printed Name


Signature

08/14/2023
Date

Location of ACM: North East High School – Throughout

Type of Asbestos-Containing Material(s): (In Bold)	Abatement Status: The material has been: (Check)
<ul style="list-style-type: none">• Sprayed or troweled on ceilings or walls _____• Sprayed or troweled on structural members _____• Thermal system insulation on pipes, tanks or boilers _____• Miscellaneous; Other (describe) Fire Doors	Encapsulated____ Enclosed____ Repaired____ Partially or totally removed____ Isolated____ There was no activity X

Assessment: Fire Doors

1. Evidence of physical damage:
None

2. Evidence of water damage:
None

3. Evidence of delamination or other deterioration:
None

4. Degree of accessibility of material:
Low

5. Degree of activity near the material:
Low

6. Location in an air plenum, air shaft, or air stream:
No

7. Other observations (including the condition of the encapsulant or enclosure, if any):
None

8. Has the condition of the material changed since the last 6-month surveillance?
No

**CECIL COUNTY PUBLIC SCHOOLS
SIX MONTH REASSESSMENT FORM
REASSESSMENT OF ASBESTOS-CONTAINING MATERIALS**

Assessor: Zachary Booker
Printed Name


Signature

08/14/2023
Date

Location of ACM: North East High School – Throughout

Type of Asbestos-Containing Material(s): (In Bold)	Abatement Status: The material has been: (Check)
<ul style="list-style-type: none"> • Sprayed or troweled on ceilings or walls _____ • Sprayed or troweled on structural members _____ • Thermal system insulation on pipes, tanks or boilers _____ • Miscellaneous; Other (describe) Cove Base Mastic 	Encapsulated____ Enclosed____ Repaired____ Partially or totally removed____ Isolated____ There was no activity X

Assessment: Roof Drains

1. Evidence of physical damage:
None

2. Evidence of water damage:
None

3. Evidence of delamination or other deterioration:
None

4. Degree of accessibility of material:
Low

5. Degree of activity near the material:
Low

6. Location in an air plenum, air shaft, or air stream:
No

7. Other observations (including the condition of the encapsulant or enclosure, if any):
None

8. Has the condition of the material changed since the last 6-month surveillance?
No

**CECIL COUNTY PUBLIC SCHOOLS
SIX MONTH REASSESSMENT FORM
REASSESSMENT OF ASBESTOS-CONTAINING MATERIALS**

Assessor: Zachary Booker
Printed Name


Signature

08/14/2023
Date

Location of ACM: North East High School – Classrooms

Type of Asbestos-Containing Material(s): (In Bold)	Abatement Status: The material has been: (Check)
<ul style="list-style-type: none">• Sprayed or troweled on ceilings or walls _____• Sprayed or troweled on structural members _____• Thermal system insulation on pipes, tanks or boilers• Miscellaneous; Other (describe) Chalkboard Mastic	Encapsulated____ Enclosed____ Repaired____ Partially or totally removed ____ Isolated____ There was no activity X

Assessment: Chalkboard Mastic

1. Evidence of physical damage:
None

2. Evidence of water damage:
None

3. Evidence of delamination or other deterioration:
None

4. Degree of accessibility of material:
Low

5. Degree of activity near the material:
Low

6. Location in an air plenum, air shaft, or air stream:
No

7. Other observations (including the condition of the encapsulant or enclosure, if any):
None

8. Has the condition of the material changed since the last 6-month surveillance?
No

**CECIL COUNTY PUBLIC SCHOOLS
SIX MONTH REASSESSMENT FORM
REASSESSMENT OF ASBESTOS-CONTAINING MATERIALS**

Assessor: Zachary Booker
Printed Name


Signature

08/14/2023
Date

Location of ACM: North East High School – Throughout

Type of Asbestos-Containing Material(s): (In Bold)	Abatement Status: The material has been: (Check)
<ul style="list-style-type: none">• Sprayed or troweled on ceilings or walls _____• Sprayed or troweled on structural members _____• Thermal system insulation on pipes, tanks or boilers• Miscellaneous; Other (describe) 12" Floor Tile/ Mastic	Encapsulated____ Enclosed____ Repaired____ Partially or totally removed ____ Isolated____ There was no activity X

Assessment: 12" Floor Tile/ Mastic

1. Evidence of physical damage:
None

2. Evidence of water damage:
None

3. Evidence of delamination or other deterioration:
None

4. Degree of accessibility of material:
Moderate

5. Degree of activity near the material:
Moderate

6. Location in an air plenum, air shaft, or air stream:
No

7. Other observations (including the condition of the encapsulant or enclosure, if any):
None

8. Has the condition of the material changed since the last 6-month surveillance?
No

**CECIL COUNTY PUBLIC SCHOOLS
SIX MONTH REASSESSMENT FORM
REASSESSMENT OF ASBESTOS-CONTAINING MATERIALS**

Assessor: Zachary Booker
Printed Name


Signature

08/14/2023
Date

Location of ACM: North East High School – Throughout

Type of Asbestos-Containing Material(s): (In Bold)	Abatement Status: The material has been: (Check)
<ul style="list-style-type: none">• Sprayed or troweled on ceilings or walls _____• Sprayed or troweled on structural members _____• Thermal system insulation on pipes, tanks or boilers• Miscellaneous; Other (describe) Drywall/ Joint Compound	Encapsulated____ Enclosed____ Repaired____ Partially or totally removed ____ Isolated____ There was no activity X

Assessment: Drywall/ Joint Compound

1. Evidence of physical damage:
None

2. Evidence of water damage:
None

3. Evidence of delamination or other deterioration:
None

4. Degree of accessibility of material:
Moderate

5. Degree of activity near the material:
Moderate

6. Location in an air plenum, air shaft, or air stream:
No

7. Other observations (including the condition of the encapsulant or enclosure, if any):
None

8. Has the condition of the material changed since the last 6-month surveillance?
No

**CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT
 SUBMITTED RFIS LOG**

RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 1 dated 03/13/2024, are in bold text.			
1	2/29/2024	Per drawing E601, HS-MSB is identified as 4000A on the riser diagram, but 3000A in the schedule (drawing E708). Please clarify.	HS-MSB is 3000A. Riser will be updated to reflect
2	3/1/2024	Is Siemens an acceptable alternative fire alarm system manufacturer?	Yes. Manufacturer will be added as acceptable alternative.
3	3/1/2024	Please provide clarification on the floor depression for the walk-in cooler/freezer, Line item 1. Written specs call for 6" deep floor recess, but the Kitchen drawings call for 4" deep recess.	4" depression is correct 3/18/2024: see Addendum 2
4	3/1/2024	Is Automated Logic's Webctrl an acceptable manufacturer substitution for specifications 230900?	No
5	3/1/2024	I was looking into if there were any utility locating services needed on the project in regards to sitework.	Utility location service is required on the project and is covered in several spec sections.
6	3/4/2024	1. Variable-Frequency Motor Controllers – May "Yaskawa" be added to the list of acceptable manufacturers for spec section 230515.2.1.B	No
7	3/4/2024	2. Energy Recovery Units – May "Petra Engineering" be added to the list of acceptable manufacturers for spec section 237200.2.1.A	No
8	3/4/2024	3. Electric Resistance Air Coils – May "Neptronic" be added to the list of acceptable manufacturers for spec section 238216.14.2.2.A	No
9	3/4/2024	4. Finned-Tube Radiation Heaters – May "Raywall" be added to the list of acceptable manufacturers for spec section 238236.2.2.A	No
10	3/4/2024	5. Unit Heaters – May "Raywall" be added to the list of acceptable manufacturers for spec section 238239.2.1.A & 2.2.A	No
11	3/4/2024	6. Cabinet Unit Heaters – May "Raywall" be added to the list of acceptable manufacturers for spec section 238239.13.2.1.A	No
12	3/4/2024	7. Wall and Ceiling Unit Heaters – May "Raywall" be added to the list of acceptable manufacturers for spec section 238239.19.2.1.B	No
13	3/4/2024	8. Electric Radiant Ceiling Panels – May "Raywall" be added to the list of acceptable manufacturers for this equipment	No
14	3/4/2024	9. Energy Recovery Ventilators – May "System Air" be added to the list of acceptable manufacturers for this equipment	No
15	3/5/2024	Are both the current middle and high school to be demolished?	The existing High school will be demolished. The existing middle school is not scheduled for demolition.
16	3/5/2024	Is the site visit on 3/6 required for the demolition package and will we be walking the inside of the school?	The site visit is not required to submit a bid. There will be a separate pre-bid meeting for the school demolition that will be scheduled closer to the scheduled demolition of the school.
17	3/5/2024	Will there be another site visit for when the Demolition RFP comes back around?	Yes.
18	3/5/2024	Is there a hazmat report for the schools to be demolished?	An AHERA 6 month inspection dated September 13, 2023. Will be provided in the next addendum.

**CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT
 SUBMITTED RFIS LOG**

RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 1 dated 03/13/2024, are in bold text.			
19	3/5/2024	I am reaching out in regards to this project, North East Middle-High School. I represent Industrial Louvers and we are specified. Do you have a list of bidders for this scope?	Louvers are in the 6A bid package, spec section 08 91 19. For a potential list of Prime Bidders by package reach out to HESS via NEMHS@hessconstruction.com.
20	3/5/2024	We also represent Vetrotech Saint Gobain for the fire rated. Do you have a list of bidders for that scope as well?	Will be addressed in forthcoming Addendum
21	3/6/2024	Wanted to ask if there should be a "A103C" included in the set because Building C has a third level. please provide	Drawing set is correct. Area C has 3 levels; 00, 01 and 02
22	3/6/2024	Please specify if the following door frames should be aluminum frames w/ wood doors or hollow metal frames w/ wood doors. B007A, B007B, B007C, D104A, D104B, D120A, D120B, F001A, F001B.	Frames are hollow metal
23	3/7/2024	Should the MV transformers (MS-XFMR and HS-XMF) be mineral oil or less-flammable insulating liquid (seed oil)? Spec section 261219 2.2.1 calls for mineral oil. But 2.3.G.6 requires compliance with FM Global Class No. 3990 (seed oil) and 2.3.G.7 requires less- flammable insulating liquid.	MV Transformers shall be FR3 Fluid Filled. Mineral oil will be removed from specification
24	3/7/2024	Regarding the 34kV Switchgear; please clarify whether the 34kV switchgear is to be vacuum breaker Metal-Clad switchgear or fused switch Metal Enclosed Switchgear. Gear is labeled as Metal-Clad on the riser but the individual sections are labeled with fused and unfused switches (Metal Enclosed). The only Spec section provided is labeled as Metal Enclosed, but within that section vacuum breakers and relays which would be for Metal Clad and Feeder Switch Sections which would be for Metal Enclosed are both discussed.	Will be addressed in forthcoming Addendum
25	3/7/2024	Please clarify what contractors should put on the bid form regarding alternate bids that do not pertain to our bid package. Would you like "0", "No Bid", "N/A" or for the space to be left blank?	Use " N/A"
26	3/7/2024	Please confirm who is responsible for the demolition of the existing school building? Is it the 31A Sitework package?	The demolition of the existing high school building will be a future bid package. The demolition of all other outbuilding structures, and all site demolition is part of the 31A sitework package.
27	3/7/2024	Please confirm if abatement or the removal of hazardous material will be required for the existing school building	Yes.
28	3/7/2024	Please confirm who is responsible for stripping, handling, and respreading the topsoil. Please define "respread" in the 31A SOW, Item 21, does this include topsoil?	32B is responsible per 32B SOW "Landscaping Specific Scope" Item 1 31A SOW item 21 refers to respreading of stockpile from other contractor's spoils
29	3/7/2024	Please confirm who is responsible for root pruning, signage, etc. as it is stated in both the 31A Sitework and 32B Landscaping & Fencing scope of work. (31A SOW Earthwork Item 1 v.s. 32B SOW Landscaping Item 4)	Root pruning, signage, etc should be 32B SOW

**CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT
 SUBMITTED RFIS LOG**

RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 1 dated 03/13/2024, are in bold text.			
30	3/7/2024	Please confirm that the 31A Sitework package does not include any stone base for the concrete or asphalt paving	CONFIRMED. Per 32A SOW they are to provide stone for their work
31	3/7/2024	Please confirm who is responsible for the Utility asphalt patch and striping for the waterline installation that goes through Irishtown Road. See SOW 32A Concrete Item 7.	32A is responsible per 32A SOW Concrete Item 7 and per Road and Parking accessories Item 5
32	3/7/2024	Please confirm who is responsible for furnishing and installing the sleeves / sonotubes for the retaining walls. (31A SOW Segmental Retaining Item 7 v.s. 32B SOW Fencing Item 5).	32B is responsible. 32B SOW needs to be updated to clarify Furnish and INSTALL
33	3/8/2024	After review of the attached notice, I did not see a Material Testing & Inspections scope being bid. Is there an opportunity for Specialized to propose services on this project?	Response will be provided in next addendum
34	3/8/2024	Will a site logistics plan be provided?	Response will be provided in next addendum
35	3/8/2024	Who is responsible for the geothermal field spoils?	23B contractor will place spoils in the stockpile area for spoils 31A is responsible for spoils pile
36	3/11/2024	Specification 00 45 28 – Prevailing Wage does not have Ironworkers or steel workers listed in the wage determination. Please provide a complete list including ironworkers.	Response will be provided in next addendum
37	3/11/2024	Is there any steel support for the sign and/or brick for the Marquee Sign on A211?	Response will be provided in next addendum 03/18/2024: No Steel support is required.
38	3/11/2024	The bollard detail located on C-12 is not called out on any of the civil plans. Please provide locations and / or quantity of bollards required.	Bollards are shown on dumpster detail only.
39	3/11/2024	Which trade contractor is to pick up the metal swing gate on C-12?	32B SOW Item 3
40	3/11/2024	Please confirm there is only one location for the metal swing gate on C-12.	Metal swing gate is specified at connection of student parking and bus loop only.
41	3/11/2024	Specification 009000 – Specific Scopes of Work. Package 05A item 16 states to pick up aluminum & SS at trench drains. Package 23A item 45 states to pick up trough / trench drains (furnish & install a complete plumbing systems). Package 31A item 13 states to furnish and install trench drain, inclusive of angles and grating. Please advise on which package(s) is to pick up stuff at the trench drains.	31A SOW should own this work to Furnish & Install the site TDs
42	3/11/2024	Which trade package is to pick up the cast-in aluminum receiver and trench cover on detail A16/A427?	05A to furnish and 03A to install
43	3/11/2024	Stair 4 on details H12 & H18/A507, A/S403 shows it drawn as a cast in place concrete stair, but details called out on architectural drawings refer to page A505 which shows a steel pan stair. Please advise if this stair is a concrete stair or a steel pan stair.	Stair is a concrete stair. Details on A505 will be reviewed and modified where required in a future addenda.
44	3/11/2024	If Stair 4 is a concrete stair, how does the stringer attach to the stair? Or is the railing to be attached to the stair without a stringer? Please advise and provide details.	Per detail A/S404 connection detail of stringer to stair is to be provided by stair engineer.

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45	3/11/2024	Is there a trade package 02A specific scope for this project? I did not see one in spec 00 90 00. Please advise.	The typical 02A package has been split up in several packages (31A, 32A, 32B)
46	3/12/2024	Verify the workbench in room B022 on sheet A800B is to use detail G18/A804.	Item is Furniture N.I.C.
47	3/12/2024	Verify 06B contractor is to furnish and install all LK5 and LK6 lockers.	Lockers are furnished and installed by 06A
48	3/12/2024	Provide details for table legs or similar at the end of peninsulas in science rooms. Currently no counter support or model number is shown.	Details will be provided in forthcoming addenda
49	3/12/2024	Is an epoxy resin sill/cap intended at non-window wall locations in science rooms? Similar to details D13 & G13/A804.	Sill cap is not required at non-window wall locations.
50	3/12/2024	Are we to include the scheduled casework shown under the counter at the millwork desk in room A100 on sheet A801A or include counter supports as detailed at G18/A805?	Provide scheduled casework as shown on A801A
51	3/12/2024	Low wall railings in the Auditorium on sheet A801D have the wrong call-out as A18/A809, this should be B13/A809.	Call out A18/A809 is correct.
52	3/12/2024	Is there a chase wall/wall cap intended at the window wall in room F107?	Yes. Chase wall/wall cap is similar to detail D13/A804. At F107 counter top and sill cap to be plastic laminate. 03/18/2024: Corrected response. Refer to Detail G13/A804. At F107 countertop and sill cap to be plastic laminate.
53	3/12/2024	Verify that package 05A is to furnish and install the steel pipe posts, flanges, plates and privacy screens at D10/A804.	Response will be provided in next addendum
54	3/12/2024	06B specific scopes lists interior wood frames and jambs, closer kits, wood handrail and dark room door: None of these items can be found on the construction documents. Verify they are not part of the project.	Response will be provided in next addendum
55	3/12/2024	Provide details for the temporary circulation desk on A012. What package is responsible to furnish and install this temporary desk?	Circulation desk will be movable furniture as is N.I.C.
56	3/12/2024	Verify all gas fixtures in science labs are furnished and installed by package 23A.	CONFIRMED. These items are listed on the plumbing schedule drawing P901
57	3/12/2024	Verify there are 2 kilns, kiln hoods and kiln ventilators required for the project. The kilns are not scheduled on the plans.	Verified there are 2 Kilns. Kiln Hoods and Kiln ventilators are required. Items will be identified in plans in future addenda
58	3/12/2024	There are multiple line items in the 06B scope that refer to owning in-wall blocking. Verify that 06B only owns coordination of in-wall blocking. Blocking is by 06A.	Response will be provided in next addendum
59	3/12/2024	Verify Alternate #16 is for the seats only, not the balconies themselves.	Alternate is for seats only
60	3/12/2024	Verify that 06A shall furnish and install all "Vertical Acoustic Wood Planks AWP3" and "Vertical Flush Joint Linear Wood Planks" as well as the ¾" metal reveals in the Auditorium per the specific scope. Hardwood caps would remain part of 06B.	Confirmed

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61	3/12/2024	Provide a detail for the millwork treads and risers at the stage front stairs.	Response will be provided in next addendum 03/18/2024: Treads and risers are RTF-4. Refer to Floor patterns on B18/A11A.
62	3/12/2024	Is wood base intended along the entire perimeter of the auditorium walls? 7A/A610 for reference.	Wood base is required as per finish schedule on A304
63	3/12/2024	Verify that Alternate #3 changes Base Bid Math room C021 into Pre-K C021. There is no additional room built alongside C021 Math in this Alternate.	Correct.
64	3/12/2024	B12/A423 indicates a window sill, but the detail is never called out on the drawings. Where does this detail belong? Is the sill intended to be solid surface?	Refer to wall section A5/A419. Material is Solid surface.
65	3/12/2024	We are an expansion joint manufacturer, and we would like to submit our products to be considered as an equal to the specified products for the North East Middle and High School project. I reviewed the specifications, and the substitution requests with the proper forms are attached for the products listed in Sections 079100 & 079513. Our products are a direct equal to those specified and will not require any changes to the project documents (with the possible exception of our inclusion in an addendum).	Decision on substitution request will be provided in future addenda. 03/18/24: Refer to Addendum 2 revised specifications for addition of products accepted as substitutions.
66	3/12/2024	There is no rate for the glazer in the wage scale.	
67	3/12/2024	Our scope referenced 07 21 60 - Thermal Break and this specification is not included in the documents.	This specification should be removed from the 04A and 08A SOW as there is no specification 07 21 60. Also page 253 and 299 of the Vol 1 specifications need to be updated to remove this specification
68	3/12/2024	All of the finish for the storefront and curtain wall calls for a Mica Finish. There is a blurb in 08 44 13 page 6 para. 2.3.b.4 that calls for clear anodized.	Item has been corrected. Refer to Addendum 2
69	3/12/2024	There is a requirement for the subcontractors to submit an AIA 305 Contractor Qualification Form. Can we provide this form?	
70	3/12/2024	Do you have a start date for the greenhouse part of this project, or at least the end date?	green house is an alternate. If accepted at bid time schedule for green house construction will be determined in review of schedule for the project based on whether the 3 phase or 2 phase construction approach is accepted.
71	3/12/2024	DWG. A906-Alternates- Detail #A9 - Is Pre-K Classroom #C021- Detailed on A800 Series Drawing? No casework tags here.	No casework is required for Pre-K Classroom C021
72	3/12/2024	DWG. A903-Ticket Booth-Detail #A18 - C-Top on brackets, ledge needed at roll up door?	Response will be provided in next addendum
73	3/12/2024	DWG. A903- Concessions-Detail #A15 - C-Top on brackets, ledge needed at roll up door? C-Top (C8) on brackets?	Response will be provided in next addendum
74	3/12/2024	DWG. A804- Details (#J14, #D10 & #D7 - Please confirm that Pipe Support post, perforated material privacy screens are part of the 05 Contractor.	Response will be provided in next addendum
75	3/12/2024	DWG. A806-Detail #D18 & #L11 - Reference "Solid Surface Clad Partial Height Partition" but detail #H18 Notes "Painted Finish". Please clarify.	"Painted Finish" refers to gypboard wall only.
76	3/12/2024	DWG. A800B - M.S. Cafeteria B007-Lower right corner calls for Detail #J10/A804, however it looks more like a counter wall mounted. Please clarify.	Response will be provided in next addendum

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77	3/12/2024	DWG. A806-Room# C029 - Casework on North wall is not tagged. Is it the same as RM #C031?	Yes
78	3/12/2024	Please confirm that bathroom (framed) mirrors are not in the 8B scope.	CONFIRMED. They belong to 06A SOW Plastic Toilet Partition Item 2
79	3/12/2024	Is section 084500 to be included in the 8B scope? The section is listed at the top of the SOW, but no further detail is provided in the paragraphs below.	Yes. This is Alternate #5
80	3/12/2024	The following door frames are noted on the door schedule as being aluminum, but are labeled with hollow metal marks, please clarify: B007A, B007B, B007C, D104A, D104B, D120A, D120B, F001A, F001B.	Refer to response to RFI #22
81	3/12/2024	Glass type G14 is specified as having a laminated inboard lite with an opaque interlayer. The Glass Type Key describes the inboard lite as tempered spandrel. Which is to be used?	Glass type G14 as described in specifications.
82	3/12/2024	Detail A11/A421 shows .080" aluminum closure from the wall to the mullion. Which scope is to include this metal?	The pre-finished alum. Closure (080), should be provided by the storefront contractor.
83	3/12/2024	Details A7 and A12 on sheet A530 show a smaller piece of flashing under the window sill, and a large piece extending further to the exterior. Which scope(s) are to pick up these pieces of flashing?	The storefront high performance sill should be provided by the storefront contractor. The pre-fin. .063" alum. sill and pre-fin. metal panel type 4 below should be provided by the metal panel contractor.
84	3/12/2024	Regarding window types SP1 and SP2, on A312, the specified manufacturer Ready Access has stated that they do not manufacture this window type in custom sizes. The sizes available on their quote request form are listed below, please let us know which to use: 47.5" x 43.5" 47.5" x 35.75" 35.75" x 35.75"	Will be addressed in forthcoming Addendum
85	3/13/2024	Fixture type SLE4 shown on drawings L700 and L701 are overlapping and difficult to see. Please advise how many of these fixture types are needed or provide a clearer detail that better shows each symbol.	24 lights are required in this location.
86	3/13/2024	Division 274116 AV Performance Systems - The auditorium line diagram on AV601 shows 11 speakers and 3 subs in the left/right clusters and 14 speakers in the main cluster. Drawing AV901 indicates 9 speakers and 3 subs in the left/right clusters and 9 speakers in the main cluster. Which one is correct?	The line diagram on AV601 is correct
87	3/13/2024	Division 274116 AV Performance Systems - The drawings show projectors type 1 and 2, but the spec only lists a type 1. Please clarify.	Where in drawing documents Type 2 projectors are referenced provide Type 1.
88	3/13/2024	Division 274116 AV Performance Systems - The video monitors are listed on the line drawing as "Confidence", "Preview Type 4", and "Pit Monitor". The spec has "Flat Panel Type 1", "Flat Panel Type 2" and "Flat Panel Type 3". What monitors are supposed to be used in which places?	Flat panel type 1 = Confidence (Sharp/NEC E437Q) Flat panel type 3 = Preview & Program Dell SE2222H (The type (type 4) is shown incorrectly on the drawings, should be type 3) Flat panel type 2 = Pit Monitors (Beetronics 15VG7M)
89	3/13/2024	Division 274116 AV Performance Systems - The spec list Type 1 and Type 2 wireless but there are no quantities listed, only the receivers on the line drawing. What is supposed to be provided?	There should be (2) sets for the Type (1) Shure QLXD 124/85, and (6) of the Type 2 Shure QLXD 24/B58

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90	3/13/2024	Per addendum 1, bidder must sign and submit Addenda with the proposal submission. The same person signing the Addenda acknowledgement(s) must sign the Bid Form. Would you like all pages of each addendum submitted with the bid submission or just the signed cover page?	Response will be provided in next addendum
91	3/13/2024	As mentioned per the Grimm and Parker Architect and Contractor for Transfer of Computer Aided Drafting (CAD) Drawing Files Agreement, the CAD/DWG Release Form, the Release Agreement for Digital Files on Electronic Media, the Alban Engineering, Inc., release of CAD Electronic Media form, as well as the Columbia Engineering, Inc., form, is it possible for an earthwork CAD file to be presented for sitework contractor bidding purposes of this specific project?	No
92	3/13/2024	Provide circuit feeding Y fixtures in corridor A02 on E100A.	E1L1A-8 (corridor circuit)
93	3/13/2024	Room A138 pm E101A shows (1) C2 fixture and (1) F fixture. Please clarify that this is correct. If not please indicate the correct type and quantities.	Type 'F'
94	3/13/2024	Room A135 on E101A shows (2) C2 fixtures and (2) F2 fixtures. Please clarify that this is correct. If not please indicate the correct type and quantities.	Type 'F2'
95	3/13/2024	Stairway STO3 on E101C shows type F fixtures, but other stairways show type FH fixtures. Please clarify that type F is correct for this stair. If not please indicate correct fixture type.	Type 'FH'
96	3/13/2024	Please confirm that un-named fixtures in rooms B207 and B211 are fixture type F2.	Type 'F2'
97	3/13/2024	Please confirm that light fixtures shown with a solid black dot indicate that they are to be provided with an emergency backup battery.	Refer to electrical legend. The only battery backup required is part of the Exit Signage, rest of project is generator based for emergency lighting.
98	3/13/2024	Please confirm that bid pack 26A is only responsible for spec section 13 21 48 as it relates to the electrical scope and not fully responsible for the entirety of the spec section.	Confirmed. This is in the 06B SOW Sound Conditioned Music Practice Room Specific Scope.
99	3/13/2024	Honeywell Fireline is the only fire alarm system noted. Will notifier also be acceptable.	Acceptable alternate manufacturers have been added through Addendum #1
100	3/13/2024	Is Blue Star an acceptable alternate manufacture for the generator system?	Please submit formal substitution request for this manufacturers' equipment.
101	3/13/2024	Will the site work, site lighting, BBF/SBF lighting be broken out into phases? If so, please provide the delineation between the 2 phases.	The project phasing drawings are located in Vol 1 F-ESD drawings F-ESD-2 through F-ESD-13
102	3/13/2024	Please provide a specification on the Hand Hole boxes required for the Primary Service conduits?	Will be addressed in forthcoming Addendum
103	3/14/2024	Is Simplex an acceptable alternative fire alarm system manufacturer?	Acceptable alternate manufacturers have been added through Addendum #1
104	3/14/2024	On the FP Drawings all of Sprinkler Zone Control Valves are in the fire pump room. Can Zone Control Valves be located in the stairwells, supplied from the Standpipe Mains? This would eliminate the long runs of main back to the pump room and provide a substantial cost savings to the owner.	The fire protection system is a delegated design specification. The fire protection system shall be designed in accordance with NFPA requirements and the local Authority Having Jurisdiction. Confirm locations of Sprinkler Zone Control Valves with the architect.

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105	3/13/2024	On S101B, at the elevator found between lines 5.5 to 5.8 and P.3 to P.7, the walls have details cut at two of the walls. Is framing not necessary on the remaining two walls? This is true of both elevators (sections B and F) at each floor, where some walls don't have any detail cuts. If additional cuts are needed, please revise showing the added details.	In typical conditions, elevator walls will be braced per P/S303. Additional details will be provided in forthcoming addenda if needed.
106	3/13/2024	Currently, the wording of item #19 is very open ended. Please revise this item to something similar to "Contractor shall provide shop installed beam penetrations where specifically shown structural drawings and approved by the structural engineer prior to bid." This way, during the bidding process we have a fixed number of shop installed beam penetrations at the time of the bid. Field penetrations can be costly depending upon where they are located and when they are requested.	Please clarify what Item #19 is referencing. If referencing Steel general note #7 on S001, CEI's response is as follows: For bid purposes, there are no openings structural steel beams. This note is in place to make sure no penetrations in beams are installed without CEI review and approval.
107	3/13/2024	Item # 26 of the 5a Steel scope requires that the 5a contractor to cut all holes in the metal deck and then provide cover for those holes. Will you consider revising the scope, and have the floor/roof openings that do not require safety railing (larger than 2'x2') to be cut open by the trade contractor that requires the opening. This typically works well with minimizing protection requirements, lowering project costs and timing of the final work needed at the openings. Pour stop will be provided at all opening as required by the contract documents.	Will be addressed in forthcoming Addendum
108	3/15/2024	Please clarify whether 7A contractor is responsible for furnishing and installation of all 23A Mechanical contractor's equipment curbs and smoke vents.	Yes per line item 13 of 07A SOW
109	3/15/2024	Roof Screening, RTU Screening, and built-up asphalt roofing items are not applicable to the project. Please provide clarification.	Remove these items from 07A SOW. Roof is TPO and there are no roof top screens shown on drawings
110	3/15/2024	Please confirm if the 3" cladding support system and metal panel system are included in the 7B metal wall panel.	Will be addressed in forthcoming Addendum
111	3/15/2024	Can you clarify what preformed joint seals outlined is spec section 07 91 00 the 3A bid package is responsible for and where they are to be installed? Per the 06A bid package, they are responsible for the furnish and installation of the expansion joint cover assemblies which would include the preformed joint seals.	Will be addressed in forthcoming Addendum
112	3/15/2024	Scope item #1 of the 03A scope states "site concrete and any concrete outside the building perimeter is not part of this scope". The next sentence states "all structures requiring a footing or slab are to be provided by this contractor". This is very open ended. Can you clarify specifically what is to be included under this section beyond what is listed in scope item #36?	Clarify 03A SOW to state "all structures within the building footprint requiring a footing or slab" 32A SOW will be updated to more clearly state that contractors owns ALL footing outside of the building foot prints.

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113	3/15/2024	Can you remove the reference of sealers and hardeners from the 03A scope of work. Bid package 06A specific scope of work requires their bid package furnish and installs concrete floor enhancements for areas labeled CONC-1 and CONC-2 on the finish schedule. Per spec section 03 35 46.23 Concrete Floor Enhancements this includes sealers and hardeners.	YES
114	3/15/2024	Can you confirm that the deck will not require shoring prior to concrete placement? The structural steel is shown to be designed with 3/4" to 1" camber. Shoring will not allow for deflection of the structural steel.	Composite decks are designed as unshored. Refer to Concrete general note 17 on S001.
115	3/15/2024	Can you clarify that the 03A bid package is only responsible for below grade waterproofing applied to work installed by this bid package and the 04A bid package is responsible for waterproofing applied to their work?	Confirmed 03A SOW item 33 04A SOW item 18 SOW for both contractors can be clarified to state as it pertains to this contractor's work
116	3/15/2024	The prevailing wage rate sheet issued with the bid documents does not provide a rate for structural steel workers or iron workers. Can you provide a rate to use for these work classifications on this project?	Will be addressed in forthcoming Addendum
117	3/15/2024	On drawing L502, there are photos of fixtures for type EL-1, EL-2, and EL-3 light poles and heads. Please provide complete part numbers for these fixtures for pricing.	Will be addressed in forthcoming Addendum
118	3/15/2024	There is a general note on the lighting drawings that states "All exit signage shall have audible buzzer activated/ powered via fire alarm system." We have not seen this before and are concerned that the buzzer would interfere with the voice evacuation commands and would cause confusion. Please confirm that every exit sign in the building is to have an audible buzzer and be activated/ powered via the fire alarm system.	Will be addressed in forthcoming Addendum
119	3/15/2024	Spec 009000 Submittals: This spec states that CADD documents may be available for use by this contractor for a fee TBD by the Architect. Since BIM is required on this project, shouldn't these be available at no extra cost to the contractors to avoid having to carry unnecessary costs?	Architect and its consultants fee for use of the CADD models is \$0(Zero dollars)
120	3/15/2024	Base Bid 1 Option: Without being able to invoice for any costs associated with Phase 2 or 3 until the beginning of Phase 2, please clarify which phase the following things fall under: Outdoor Site Lighting (E004), Baseball and Softball Field Lighting (E005), Concessions and Ticketing (E901), The Fieldhouse (E902), Geothermal North and South Buildings (E903), and the Greenhouse (E903).	Will be addressed in forthcoming Addendum
121	3/17/2024	The civil drawings call out proposed stairs on plans C-4 through C-6 with a callout to a detail on C-12. The detail on C-12 does not show railing. Please confirm that guardrails and handrails are NOT needed for the site stairs. If railing is needed for the proposed site stairs, please provide details and material callouts.	Will be addressed in forthcoming Addendum

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122	3/17/2024	Is guardrail required at the retaining wall on C-5? If so, please provide details and material callouts.	Will be addressed in forthcoming Addendum
123	3/17/2024	There is a HSS column in Stair 1 tower supporting the mid landings with no details. It runs from Level 0 concrete slab to steel beam at roof level. Please provide size (including wall thickness) for column along with bottom and top connection details and materials.	Landing and roof steel beams supported to column per typical connection details, See A/S304. Details for support of tubes in exterior wall will be provided in addendum.
124	3/17/2024	05A specific scope item #16 states steel to pick up racks. Please specify and advise as to what exactly this is and detail number from drawings that apply.	Will be addressed in forthcoming Addendum
125	3/17/2024	05A specific scope item #16 calls out to pick up hangers for OTPT hooks. Please advise on details, drawings, and quantity for this item.	Will be addressed in forthcoming Addendum
126	3/17/2024	05A specific scope item #16 calls out to pick up yokes at spaces. Please provide details, drawings, and locations where this occurs.	Will be addressed in forthcoming Addendum
127	3/17/2024	05A specific scope item #4 calls out to pick up swing hook accessories. Please advise if this job has this item. If so, please provide details, drawings, and quantity.	Will be addressed in forthcoming Addendum
128	3/17/2024	05A specific scope item #13 calls out to pick up swing hooks. Please advise if this job has this item. If so, please provide details, drawings, and quantity.	Will be addressed in forthcoming Addendum
129	3/17/2024	05A specific scope item #16 calls out to pick up swivel hooks. Please advise if this job has this item. If so, please provide details, drawings, and quantity.	Will be addressed in forthcoming Addendum
130	3/17/2024	Can you confirm that the under slab drainage system shown in details 45, 46, 47, 48, and 49 on sheet P704 is to be furnished and installed by the 23A Mechanical and Plumbing bid package?	Confirmed These details are part of drawing P003 which belongs to the 23A contractor
131	3/17/2024	Can a plan be provided showing the location of the under slab drainage piping and clean out locations?	
132	3/17/2024	Contract Package 6A and 6B both have spec section 10 56 13.23 Cantivlever Metal Library Shelving. Please advise which scope package will be responsible for spec section 10 56 13.23 Cantivlever Metal Library Shelving.	06B SOW section "Cantilever Metal Library Shelving Specific Scope"
133	3/17/2024	Will there be another wage scale added in a future addenda? No listing for the painters rate found on provided schedule. Please advise.	Will be addressed in forthcoming Addendum
134	3/17/2024	Please advise if Datum can be approved as an accepted manufacturer for Metal Canopies.	Will be addressed in forthcoming Addendum
135	3/17/2024	11 00 05- Misc. Equipment-Part 2 Matting for Catwalks: Basis of Design, Pawling Corporation; Punishment Pads P-50 or equal. Manufacture has no such product description or product number "P-50" listed. Please Advise	Will be addressed in forthcoming Addendum

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136	3/17/2024	Numbered remarks on pages A309, A310, A311, A312 indicate where roller shades are to be installed and where louver blinds are NOT to be installed. Hollow metal frame note #5 indicates "horizontal blinds at all interior and exterior openings including door sidelites, but excluding door lites unless otherwise noted." Please confirm if blinds are required at windows that do not have a numbered remark?	Blinds are required at window frames that do not have a numbered remark.
137	3/17/2024	Please confirm the 6B scope package is responsible for Spec section 11 00 05, section 1.1D, 2-4?	Confirmed per 06B SOW Interior Architectural Woodwork Item 1, Appliances Item 2, and Miscellaneous Item 1
138	3/17/2024	Please confirm the 6A scope package is responsible for Spec section 11 00 05, section 1.1D, 1?	Will be addressed in forthcoming Addendum
139	3/17/2024	Confirm 06A responsible for providing dumpsters for all prime scope packages except 07A . If so, please advise on if a specific quantity of dumpsters can be specified for 06A to include as an allowance for 03A, 04A, 31A, 32A, & 32B scope packages.	Will be addressed in forthcoming Addendum
140	3/17/2024	Please verify if 06A, 03A, or 05A will be responsible for supply / install of MOSH compliant: wire rope safety cable fall protection & slab diamond covers / protection around steel protruding thru concrete.	Will be addressed in forthcoming Addendum
141	3/17/2024	Please verify if 06A or 07A will be responsible for supply / install of MOSH compliant parapet clamp guardrail systems at all roof parapets.	06A SOW section "Fall Protection" Item 7
142	3/17/2024	Please verify if 06A is responsible for providing 1 supervisor + 2 general laborers in addition to the 1 laborer manday / 8 worker manday onsite / week for CM clean up crew. Please also confirm a 2nd shift CM clean up crew / week specified in 06A scope package – Construction Waste Management Specific Scope Item #4 is not applicable to this project	Yes to 1st part. The additional 2 laborers will act as foreman under the supervisor to direct labors provided by the other trades per the General Scope section "Clean Up" Item 2. We will only be 1 shift UNLESS the schedule begins to suffer
143	3/17/2024	Please clarify whether 03A or 06A prime contractor is responsible for concrete floor enhancement for Conc- 1 & CONC-2 areas.	06A per section "Concrete Floor Enhancement"
144	3/17/2024	Please advise what type of temp floor protection is required for polished concrete floor areas.	Floor protection shall be as recommended by the resinous flooring manufacturer.
145	3/17/2024	Please clarify whether 06A or 07B is responsible for wood blocking / furring strips for metal panel scopes of work.	06A SOW which is stated in 07B SOW "Metal Wall Panel Specific Scope" Item 12
146	3/17/2024	Please advise if 06A or 04A is responsible for grouting of 06A hollow metal frames.	04A SOW Masonry Specific Scope Item 11
147	3/17/2024	Please provide further clarification on 06A Drywall Rough Carpentry & Acoustical Assembly Scope Package Item #16" particularly in regards to the required scope of work for "tenting of light fixtures".	Will be addressed in forthcoming Addendum
148	3/17/2024	Please verify 06A is responsible for providing a Level 4 finish or Level 5 finish at all drywall assemblies.	Will be addressed in forthcoming Addendum
149	3/17/2024	Please clarify whether 06A or 03A responsible for install of 05A supplied stair nosings.	06A SOW item 29
150	3/17/2024	Clarify verify 04A responsible for caulking interior & exterior side of 04A assembly control joints.	This pertains to masonry control joints only.
151	3/17/2024	Please confirm 06A is responsible for supplying & installing door hardware for 08B assemblies.	06A only furnishes per 08B SOW Item 3 and 06A SOW Doors, Frames, Hardware Item 2. 08B installs

**CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT
 SUBMITTED RFIS LOG**

RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 1 dated 03/13/2024, are in bold text.			
152	3/17/2024	Please advise if there is a specific locksmith that 06A will be responsible for contracting to provide final keying services.	Will be addressed in forthcoming Addendum
152	3/17/2024	Please clarify if 06A or 11B responsible for supply / install of hook & loop mat hangers + coordinating wall padding, high impact corner guards for complete install as indicated on construction documents.	06A SOW Miscellaneous Specialties Item 9
154	3/17/2024	Please clarify if 06A or 05A responsible for supply & install of wire mesh partition scopes of work.	06A SOW section Wire Mesh Partitions
155	3/17/2024	Please provide further specifications / designs for custom graphic design that will be applied to Decorative Protection Panels.	Will be addressed in forthcoming Addendum
156	3/17/2024	Please advise if 06A or another prime contractor is responsible for supply / install of Pergolas shown on sheet L502. If 06A responsible, please also clarify whether 06A or another prime contractor is responsible for furnish & install of footers required for pergolas.	06A SOW Site Amenities
157	3/17/2024	Please advise if 06A responsible for providing BIM coordinated drawings for Greenhouse, elevator, or any other 06A scopes of work.	Will be addressed in forthcoming Addendum
158	3/17/2024	Please advise if an allowance amount can be added to 06A scope package base bid for material & labor price escalations throughout the duration of the project. If no allowance for price escalations can be added to 06A scope package, please advise if 06A could invoice for stored material costs for Phase 2 scopes of work to minimize the costs incurred by 06A for price escalations of Phase 2 materials.	Will be addressed in forthcoming Addendum
159	3/17/2024	Please confirm the MBE Attachment B form in Spec 004339 are the correct version of MBE Attachment B Form that contractors are to submit with their bid.	Will be addressed in forthcoming Addendum
160	3/17/2024	Please clarify if a particular prime contractor will provide final cleaning services for all other prime contractors for the entire project or if each individual prime contractor will be responsible for final cleaning services required for their applicable scopes of work.	Will be addressed in forthcoming Addendum
161	3/17/2024	Please clarify if 06A or 26A is responsible for supplying of power supplies for electric door hardware.	Read 26A SOW Item 48
162	3/17/2024	Please advise if G-16 type glass will be covered by window shades?	Refer to frame elevations for glazing locations and where window shades are required.
163	3/17/2024	There are discrepancies between the finish schedule and RCP for the ceiling tile be advise whether to follow the finish schedule or the reflective ceiling plan? Examples: HS Café B001 Finish Schedule Calls for APC-3 / APC-4 / APC-5 / GYP but the RCP does not have APC-3 (2x4 Tile), Only has 2x2 APC-4. Corridor B02 Finish Schedule Calls for APC-2 which is 2x2 Tile but the RCP shows 2x4 Tile. MS Aux Storage B010 Finish Schedule Calls for APC-1 but the RCP Shows EXPOSED.	B001 HS Café (Cafeteria), ignore APC-2 (2x4 tile) B02 corridor, to be APC-1 (2x4) as shown on RCP B010 MS Aux Storage should be exposed, ignore APC-1

**CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT
 SUBMITTED RFIS LOG**

RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 1 dated 03/13/2024, are in bold text.			
164	3/17/2024	Please provide further clarification and specifications for alternate Bid #4 – Front Canopy (Cantilever Curved Arbor).	Will be addressed in forthcoming Addendum
165	3/17/2024	Please advise who is responsible for the concrete footings required for the alternate Bid #4 – Front Canopy (Cantilever Curved Arbor).	06A. This is a Pergola canopy
166	3/17/2024	Please advise whether Hollow Metal doors and frames are to abide by “Buy American Steel” on the bid form?	Will be addressed in forthcoming Addendum
167	3/17/2024	Please advise what hardware door opening E107B is to receive?	Will be addressed in forthcoming Addendum
168	3/17/2024	Please advise what hardware door opening XC06 is to receive?	Will be addressed in forthcoming Addendum
169	3/17/2024	Please advise what minimum coating is to be applied to the interior doors and frames for 08 11 13 2.3, B-1- C; and 08 11 13 2.3, B-2-A.	Coatings are to meet the minimum standard of A60 required by ANSI/SDI A250.8, Level 3 and ANSI/SDI A250.4, Level A.
170	3/17/2024	Please advise on alternates 14,15, and 17 if the doors, frames, and hardware to be included in base bid or on the alternates?	Doors frames and hardware are to be included. Refer to Addendum 1.
171	3/18/2024	This is a large project and we have asked multiple questions can the bid be extended?	Will be addressed in forthcoming Addendum
172	3/18/2024	Per the Bid Form and Specifications, we are to provide the Contractors qualification statement and AIA A305. Can you please provide AIA A305?	Will be addressed in forthcoming Addendum
172		Hess pricing bid options shown on the Pre-Bid Meeting Agenda, calls for us to include High School demo in the base bid, but RFI Response #26 says demo of the existing high school will be in future bid pack. Please clarify if demo of high school should be included in the base bid for bid pack 26-A.	Will be addressed in forthcoming Addendum
174		Please clarify that the SL8 Fixtures shown on the outside of vestibule A11 on Sheet E101A are for alternate #4.	Will be addressed in forthcoming Addendum
175		Electrical Scope of work #2 – Construction Manager Trailer – can an allowance be give for this item? There is no way for us to know what the utility cost would be for electric and cable services until after award and discussion with appropriate utility providers. Furthermore, we wouldn’t know how long we would need to provide temporary generators either for temporary service. Nor would we know how to estimate the monthly service bills.	Will be addressed in forthcoming Addendum
176		Electrical scope of work item #3 – Temporary Power to Site- Can an allowance be given? We’re being asked to carry all utility connection fees and temporary generators until permanent service is available. We have no way of knowing when the utility providers will be able to tun on permanents services to the site. The utility company will need the Electrical application completed prior to giving us an estimated date of service availability.	Will be addressed in forthcoming Addendum

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 SUBMITTED RFIS LOG**

RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 1 dated 03/13/2024, are in bold text.			
177		Electrical Scope of Work #4 – can an allowance be provided for this? We have no way of knowing which trades will need what type of power and when they will need it. Also as mentioned above, we're unable to know when permanent services will be made available to the site. In your scope of work, we could potentially own an unknown power source for potentially elevators, crane, grinders, etc.	Will be addressed in forthcoming Addendum
178		Electrical Scope of Work #5- Same as 2,3,&4, above can an allowance be made? We have no way of quantifying what is to be estimated for work in this scope item.	Will be addressed in forthcoming Addendum
179		Scope of Work item #7 – Please clarify that this line item is intended only for temporary transition from temporary electric to temporary power or electric service shutdown needed during construction by the electric contractor.	Will be addressed in forthcoming Addendum
180		Electric Scope of work #14 states that all interior housekeeping, and equipment pads will be provided by the concrete contractor. Will they also provide exterior housekeeping pads for electrical i.e. generator and transformer pads etc.? Also, this scope item says in the event concrete pad is required and not shown the electrical contractor owns it. Please clarify where the pads are needed but not shown so that we may properly estimate the cost.	Will be addressed in forthcoming Addendum
181		Electrical scope of work item #15 – please clarify that all electric required by equipment and appliance contractors are indicated on project documents.	Will be addressed in forthcoming Addendum
182		Electrical Scope of work item #16 – Please clarify regular maintenance on all equipment is referring only to electrical distribution equipment utilized for HVAC Feeds.	Will be addressed in forthcoming Addendum
183		Electrical scope of work item #27- Please clarify that all required escutcheons, pedestals, and the like for completed finish trim are indicated as needed in project documents.	Will be addressed in forthcoming Addendum
184		Electrical scope of work item #32 – Refers to painting and stenciling of conduits per specifications, however section 26 05 53 labels Identification of Electrical Systems refers to paint but doesn't tell us what needs to be painted and stenciled. Please clarify if it is required, if so, what is to be painted and stenciled and where is it located?	Will be addressed in forthcoming Addendum
185		Please confirm Electric Utility is terminating the service conductors at the Utility poles.	Will be addressed in forthcoming Addendum
186		Please confirm Secondary conductors from the Middle school, High School and the Fire pump transformer will be made of Copper, per the single line drawing E601.	Will be addressed in forthcoming Addendum
187		Please confirm the conductors from the Generator to ATS-1, ATS-2A, ATS-2B, ATS-3 will be made of Copper, per the single line drawing E601.	Will be addressed in forthcoming Addendum

**CCPS RFP#24-15 – NORTH EAST MIDDLE/HIGH SCHOOL REPLACEMENT
 SUBMITTED RFIS LOG**

RFI #	Date recvd	Question	Answer
NOTE: RFI responses added or modified since the issuance of Addendum 1 dated 03/13/2024, are in bold text.			
188		Please confirm the conductors from the Generator docking station will be made of Copper , per the single line drawing E601.	Will be addressed in forthcoming Addendum
189		Please advise on how the HS service will be grounded/bonded to the Middle school service. Or will there be (2) standalone grounded systems.	Will be addressed in forthcoming Addendum
190		The Middle school secondary conduit bank detail #13 on drawing E501, shows 18 conduits in this bank, drawing E601 note #24 calls out for 14 conduits, are you requesting (4) conduit spares in this bank, please advise.	Will be addressed in forthcoming Addendum
191		Drawing E501 detail #11, which shows the Generator 120v circuits for the for the battery charger and miscellaneous loads is calling out to be fed from panel E1RIC, this panel is not on the single line, please advise.	Will be addressed in forthcoming Addendum
192		Specification Section 116143, Article 2.2 specifies various types of fabrics for curtains, i.e. 23oz, 13oz.... but does not provide a schedule that clarifies what fabric is to be used in the fabrication of the individual curtains. On the other hand, the Curtain Schedule depicted on Drawing TE001 lists 25oz fabric for all the curtains except for Lineset No. 28. Therefore, what fabric should we follow?	Will be addressed in forthcoming Addendum
193		Specification Section 116143, Article 2.3, Paragraph A.8 states to provide lining for each curtain in same fullness as face fabric? Typically, the Valance and Front curtain would receive lining and the remaining curtains (cyclorama curtains) would not. Please clarify.	Will be addressed in forthcoming Addendum



March 20, 2024

PROJECT NAME North East Middle & High School Replacement
PSC # 07.044.23 / BTL
CCPS RFP#24-15
ADDENDUM NO. #2
PROJECT# GP22105.00

TO THE CONTRACT DRAWINGS AND SPECIFICATIONS FOR THE REFERENCED PROJECT, DATED 12/22/2023, AS PREPARED BY GRIMM & PARKER ARCHITECTS, 11720 BELTSVILLE DRIVE, SUITE 600, CALVERTON, MARYLAND 20705.

This Addendum includes changes and clarifications to the Contract Documents. The information includes the following:

SPECIFICATION ITEMS:

ITEM NO. 1 SECTION 04 20 00 - UNIT MASONRY

ADD New paragraph 2.1.B.3.g to read:

g. Westbrook Concrete Block.

ITEM NO. 2 SECTION 07 27 26 - FLUID-APPLIED MEMBRANE AIR BARRIERS

REPLACE Sections in their entirety, with revised sections attached.

ITEM NO. 3 SECTION 07 95 13 - EXPANSION JOINT COVER ASSEMBLIES

ADD New paragraph 2.2.E to read:

E. Erie Metal Specialties, Inc.

1. Floor-to-Floor Joint Systems: ENBF Series, ribbed.
2. Floor-to-Wall Joint Systems: ENBF Series, ribbed.
3. Floor-to-Floor Joint Systems at Concealed Chase Locations: CSH(2FR).
4. Wall-to-Wall Joint Systems: ENWJ Series, snap on type.
5. Wall-to-Ceiling Joint Systems: ELCA Series.
6. Ceiling-to-Ceiling Joint Systems: ELCA Series.

ITEM NO. 4 SECTION 08 44 13 - GLAZED ALUMINUM CURTAIN WALLS

CHANGE

Paragraph 2.3.B.4 to read:

4. High-performance organic finish.

ITEM NO. 5 SECTION 09 84 00.03 – SOUND REFLECTING CEILING PANELS

REVISE

Paragraph 2.2.A.2 to read as follows:

2. Face: WilsonArt or approved laminate, or optional Natural Wood Veneer with clear coat finish.

ITEM NO. 6 SECTION 11 40 00 – FOOD SERVICE

REVISE

Paragraph 3.6(i)(1) - Walk-in floor depression construction revised to read:

4. Interior Floor:
-- 4" prefabricated heavy-duty structural floor panels with foamed-in 3/4" plywood reinforcing installed over hot asphalt paper or 10 MIL polyethylene sheets on building floor slab.

ITEM NO. 7 SECTION 26 32 13.16 – EMERGENCY ENGINEER GENERATORS

ADD

Paragraph 2.1.A to list of acceptable manufacturers add:

5. Generac Power Systems

DRAWING ITEMS: **NONE**

SECTION 07 27 26 - FLUID-APPLIED MEMBRANE AIR BARRIERS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Vapor-permeable, fluid-applied air barriers.

1.2 DEFINITIONS

- A. Air-Barrier Accessory: A transitional component of the air barrier that provides continuity.
- B. Air-Barrier Assembly: The collection of air-barrier materials applied to an opaque wall, including joints and junctions to abutting construction, to bridge and seal air leakage pathways and gaps; including all accessories necessary for a complete installation.
- C. Air-Barrier Material: A primary element that provides a continuous barrier to the movement of air.

1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at project site no less than three weeks prior to work.
 - 1. Participants: Owner, Architect, Contractor, air barrier installer, air barrier manufacturer's representative, and installers whose work interfaces with or affects air barrier, including but not limited to installers of masonry, sheathing products, flashings, roofing, wall panel systems, curtainwall, storefront, doors, windows, and louvers.
 - 2. Agenda:
 - a. Review air-barrier requirements and installation, special details, mockups, air-leakage and bond testing, air-barrier protection, and work scheduling that covers air barriers.
 - b. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - c. Include review of penetrations, building deflection joints, and other construction affecting air barrier installation.
 - d. Review methods, procedures, and construction sequence for air barrier and related construction, including review of manufacturer's written product specifications and installation instructions.
 - e. Review requirements for coordination of air barrier with adjacent materials and construction.
 - f. Review substrate conditions and finishes required to comply with manufacturer's requirements for installation of air barrier including fastening and flatness of substrate.
- B. Air Barrier Manufacturer's Acceptance: Obtain manufacturer's acceptance of air barrier for intended use shown on Drawings and of compatibility of air barrier with all materials in contact with air barrier.
- C. Refer to Division 1 Sections, "Special Project Procedures for Building Enclosure" and "Exterior Enclosure Performance Requirements," for additional requirements.
- D. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.4 ACTION SUBMITTALS

- A. Product Data: Include manufacturer's written instructions for evaluating, preparing, and treating each substrate; technical data; dry film thickness; and tested physical and performance properties of products.
- B. Shop Drawings: For air-barrier assemblies.
 - 1. Show locations and extent of air-barrier materials, accessories, and assemblies specific to Project conditions.
 - 2. Include details for substrate joints and cracks, counterflashing strips, penetrations, inside and outside corners, terminations, and tie-ins with adjoining construction.
 - 3. Include details of interfaces with other materials that form part of air barrier including, but not limited to, the following as applicable to this Project:
 - a. Connection of air barrier in walls to roof membrane.
 - b. Connection of air barrier in walls to air barrier in foundation.
 - c. Application of air barrier to seismic and expansion joints.
 - d. Application of air barrier to openings and penetrations by windows, storefront framing, curtain wall framing, door frames, piping, conduit, ducts, masonry ties, screws, bolts, and similar components and penetrations.
 - e. Application of air barrier to exterior wall construction.
 - 4. Include details of mockups.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data - Installer: Include list of ABAA-certified installers and supervisors employed by installer, who work on Project.
 - 1. Submit evidence that Installer is currently accredited under ABAA Quality Assurance Program, including accreditation number for ABAA Certified Installers.
- B. Certifications:
 - 1. Product Certificates: From air-barrier manufacturer, certifying compatibility of air barriers and accessory materials with Project materials that connect to or that come in contact with the barrier.
 - 2. Acceptance of Materials: Submit document from air-barrier manufacturer certifying acceptance of materials proposed for use with air barrier that are not specified in this Section.
 - 3. Substrate Compatibility: Submit document from air-barrier manufacturer certifying that air barrier system materials used to adhere air barrier to substrate are chemically compatible.
 - 4. ABAA Certification: Submit evidence that air barrier system complies with requirements of ABAA Quality Assurance program specified in Quality Assurance article in this Section.
- C. Product Test Reports: For each air-barrier assembly, submit documentation from an approved independent testing laboratory certifying compliance with the air leakage rates of the air barrier membrane assembly, including primary membrane, primer and sealants have been tested to meet ASTM E2357, ICC-AC 38, Class A flame spread index and smoke development per ASTM E-84.
- D. Field Quality-Control Reports: Submit test results from testing specified in Field Quality Control article in Part 3 of this Section.
- E. ABAA Registration: Provide registration letter from ABAA to document job has been registered with ABAA to be performed and monitored in accordance with the ABAA QAP.
- F. ABAA QAP Report: Submit copy of ABAA Quality Assurance Program Report.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
 - 1. Installer shall be licensed by ABAA according to ABAA's Quality Assurance Program and shall employ ABAA-certified installers and supervisors on Project.
- B. Mockups: Build mockups to set quality standards for materials and execution.
 - 1. Build integrated mockups of exterior wall assembly as indicated on Drawings, incorporating backup wall construction, external cladding, window, storefront, door frame and sill, insulation, ties and other penetrations, and flashing to demonstrate surface preparation, crack and joint treatment, application of air barriers, and sealing of gaps, terminations, and penetrations of air-barrier assembly.
 - a. Coordinate construction of mockups to permit inspection and testing of air barrier before external insulation and cladding are installed.
 - b. Include junction with roofing membrane, building corner condition, and foundation wall intersection.
 - c. If Architect determines mockups do not comply with requirements, reconstruct mockups and apply air barrier until mockups are approved.
 - 2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Remove and replace liquid materials that cannot be applied within their stated shelf life.
- B. Protect stored materials from direct sunlight.

1.8 FIELD CONDITIONS

- A. Environmental Limitations: Apply air barrier within the range of ambient and substrate temperatures recommended in writing by air-barrier manufacturer.
 - 1. Protect substrates from environmental conditions that affect air-barrier performance.
 - 2. Do not apply air barrier to a damp or wet substrate or during snow, rain, fog, or mist.

1.9 WARRANTY

- A. Provide minimum 5-year assembly warranty.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Obtain primary air-barrier materials and air-barrier accessories from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Air-Barrier Performance: Air-barrier assembly and seals with adjacent construction shall be capable of performing as a continuous air barrier and as a liquid-water drainage plane flashed to discharge to the exterior incidental condensation or water penetration. Air-barrier assemblies shall be capable of accommodating substrate movement and of sealing substrate expansion and control joints, construction material changes, penetrations, tie-ins to installed waterproofing, and transitions at perimeter conditions without deterioration and air leakage exceeding specified limits.

1. Movement/Control Joints: Provide air barrier assembly capable of accommodating movements of building and building materials, including providing expansion and control joints and applicable accessories required to accommodate these movements.
 - a. Provide air barrier assembly capable of withstanding combined design wind, fan, and stack pressures, positive and negative, on building envelope without damage or displacement and transferring loads to structure.
 - b. Provide air barrier assembly materials that do not displace adjacent materials and air barrier assembly materials under full load.
 - c. Provide air barrier assembly joined in airtight and flexible manner to air barrier materials incorporated into adjacent construction and that allows relative movement of assemblies due to thermal and moisture variations, creep, and anticipated seismic movement.
 2. Connections to Adjacent Materials: Provide connections to adjacent materials that prevent air leakage at following locations:
 - a. Foundation and walls, including penetrations, ties and anchors.
 - b. Walls, windows, curtain walls, storefronts, louvers and doors.
 - c. Different assemblies and fixed openings within those assemblies.
 - d. Wall and roof connections.
 - e. Floors/soffits over unconditioned space.
 - f. Walls, floor and roof across construction, control and expansion joints.
 - g. Walls, floors and roof to utility, pipe and duct penetrations.
 - h. Seismic and expansion joints.
 - i. All other potential air leakage pathways in building envelope.
- B. Air-Barrier Assembly Air Leakage: Maximum 0.04 cfm/sq. ft. of surface area at 1.57 lbf/sq. ft., when tested according to ASTM E2357.
- 2.3 AIR BARRIERS, VAPOR PERMEABLE
- A. Vapor-Permeable Air Barrier: Synthetic polymer membrane with an installed dry film thickness, according to manufacturer's written instructions, of 30 mils or thicker over smooth, void-free substrates.
1. Synthetic Polymer Type:
 - a. Products: Subject to compliance with requirements, provide one of the following:
 - 1) Carlisle Coatings & Waterproofing Inc.; Fire Resist Barritech VP.
 - 2) GCP Applied Technologies Inc.; Perm-A-Barrier VP or Perm-A-Barrier VP 20 LT.
 - 3) Henry Company; Air-Bloc All Weather.
 - 4) Tremco Incorporated; ExoAir 230.
 - 5) W.R. Meadows, Inc.; Air-Shield LMP.
 2. Physical and Performance Properties:
 - a. Air Permeance: Maximum 0.004 cfm/sq. ft. of surface area at 1.57-lbf/sq. ft. pressure difference; ASTM E2178.
 - b. Vapor Permeance: Minimum 10 perms; ASTM E96/E96M, Desiccant Method, Procedure A.
 - c. Ultimate Elongation: Minimum 200 percent; ASTM D412, Die C.
 - d. Adhesion to Substrate: Minimum 16 lbf/sq. in. when tested according to ASTM D4541.
 - e. Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly.
 - f. UV Resistance: Can be exposed to sunlight for 180 days according to manufacturer's written instructions.

2.4 ACCESSORY MATERIALS

- A. Requirement: Provide primers, transition strips, termination strips, joint reinforcing fabric and strips, joint sealants, counterflashing strips, flashing sheets and metal termination bars, termination mastic, substrate patching materials, adhesives, tapes, foam sealants, lap sealants, and other accessory materials that are recommended in writing by air-barrier manufacturer to produce a complete air-barrier assembly and that are compatible with primary air-barrier material and adjacent construction to which they may seal.
- B. Primer: Liquid waterborne primer recommended for substrate by air-barrier material manufacturer.
- C. Stainless-Steel Sheet: ASTM A240/A240M, Type 304, 0.0250 inch thick, and Series 300 stainless-steel fasteners.
- D. Preformed Silicone Extrusion: Manufacturer's standard system consisting of cured low-modulus silicone extrusion, sized to fit opening widths, with a single-component, neutral-curing, Class 100/50 (low-modulus) silicone sealant for bonding extrusions to substrates.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. GE Construction Sealants; Momentive Performance Materials Inc .
 - b. Pecora Corporation; Pecora XL-Span or Sil-Span.
 - c. The Dow Chemical Company; Dow Corning® 123 Silicone Seal.
 - d. Tremco Incorporated; Spectrem Simple Seal.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.
 - 1. Verify that substrates are sound and free of oil, grease, dirt, excess mortar, or other contaminants.
 - 2. Verify that substrates have cured and aged for minimum time recommended in writing by air-barrier manufacturer.
 - 3. Verify that substrates are visibly dry and free of moisture. Test concrete substrates for capillary moisture by plastic sheet method according to ASTM D4263.
 - 4. Verify that masonry joints are flush and completely filled with mortar.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 SURFACE PREPARATION

- A. Clean, prepare, treat, fill, and seal substrate and joints and cracks in substrate according to manufacturer's written instructions and details. Provide clean, dust-free, and dry substrate for air-barrier application.
- B. Mask off adjoining surfaces not covered by air barrier to prevent spillage and overspray affecting other construction.
- C. Remove grease, oil, bitumen, form-release agents, paints, curing compounds, and other penetrating contaminants or film-forming coatings from concrete.
- D. Remove fins, ridges, mortar, and other projections and fill honeycomb, aggregate pockets, holes, and other voids in concrete with substrate-patching material.
- E. Remove excess mortar from masonry ties, shelf angles, and other obstructions.
- F. At changes in substrate plane, apply sealant or termination mastic beads at sharp corners and edges to form a smooth transition from one plane to another.

- G. Cover gaps in substrate plane and form a smooth transition from one substrate plane to another with stainless-steel sheet mechanically fastened to structural framing to provide continuous support for air barrier.
- H. Bridge isolation joints, expansion joints and discontinuous wall-to-wall, deck-to-wall, and deck-to-deck joints with air-barrier accessory material that accommodates joint movement according to manufacturer's written instructions and details.

3.3 INSTALLATION OF ACCESSORIES

- A. Install accessory materials according to air-barrier manufacturer's written instructions and details to form a seal with adjacent construction and ensure continuity of air and water barrier.
 - 1. Coordinate the installation of air barrier with installation of roofing membrane and base flashing to ensure continuity of air barrier with roofing membrane.
 - 2. Install transition strip on roofing membrane or base flashing so that a minimum of 3 inches of coverage is achieved over each substrate.
 - 3. Unless manufacturer recommends in writing against priming, apply primer to substrates at required rate and allow it to dry.
 - 4. Apply primer to substrates at required rate and allow it to dry. Limit priming to areas that will be covered by air-barrier material on same day. Reprime areas exposed for more than 24 hours.
- B. Connect and seal exterior wall air-barrier material continuously to roofing-membrane air barrier, concrete below-grade structures, floor-to-floor construction, exterior glazing and window systems, glazed curtain-wall systems, storefront systems, exterior louvers, exterior door framing, and other construction used in exterior wall openings, using accessory materials.
- C. At end of each working day, seal top edge of strips and transition strips to substrate with termination mastic.
- D. Apply joint sealants forming part of air-barrier assembly within manufacturer's recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- E. Wall Openings: Prime concealed, perimeter frame surfaces of windows, curtain walls, storefronts, and doors. Apply preformed silicone extrusion so that a minimum of 3 inches of coverage is achieved over each substrate. Maintain 3 inches of full contact over firm bearing to perimeter frames, with not less than 1 inch of full contact.
 - 1. Preformed Silicone Extrusion: Set in full bed of silicone sealant applied to walls, frame, and air-barrier material.
- F. Fill gaps in perimeter frame surfaces of windows, curtain walls, storefronts, and doors, and miscellaneous penetrations of air-barrier material with foam sealant.
- G. Seal top of through-wall flashings to air barrier with an additional 6-inch- wide, transition strip.
- H. Seal exposed edges of strips at seams, cuts, penetrations, and terminations not concealed by metal counterflashings or ending in reglets with termination mastic.
- I. Repair punctures, voids, and deficient lapped seams in strips and transition strips. Slit and flatten fishmouths and blisters. Patch with transition strips extending 6 inches beyond repaired areas in strip direction.

3.4 INSTALLATION OF PRIMARY AIR-BARRIER MATERIAL

- A. Apply air-barrier material to form a seal with strips and transition strips and to achieve a continuous air barrier according to air-barrier manufacturer's written instructions and details. Apply air-barrier material within manufacturer's recommended application temperature ranges.
 - 1. Unless manufacturer recommends in writing against priming, apply primer to substrates at required rate and allow it to dry.

2. Limit priming to areas that will be covered by air-barrier material on same day. Reprime areas exposed for more than 24 hours.
 3. Where multiple prime coats are needed to achieve required bond, allow adequate drying time between coats.
- B. Air Barriers: Apply continuous unbroken air-barrier material to substrates according to the following thickness. Apply air-barrier material in full contact around protrusions such as masonry ties.
1. Vapor-Permeable, Air Barrier: Total dry film thickness as recommended in writing by manufacturer to comply with performance requirements, but not less than 30 mils, applied in one or more equal coats.
- C. Do not cover air barrier until it has been tested and inspected by testing agency.
- D. Correct deficiencies in or remove air barrier that does not comply with requirements; repair substrates and reapply air-barrier components.

3.5 FIELD QUALITY CONTROL

- A. ABAA Quality Assurance Program: Perform examinations, preparation, installation, testing, and inspections under ABAA's Quality Assurance Program.
1. Services to be engaged by Contractor with no additional cost to the Owner.
 2. Allow inspectors access to scaffolding and work areas as needed to perform tests and inspections. Retesting of materials that fail to comply with specified requirements shall be done at Contractor's expense.
- B. ABAA Installer Testing and Audits: Cooperate with ABAA testing agency, allowing ABAA testing agency access to work areas and staging and notifying ABAA testing agency in writing of schedule for Work of this Section to allow sufficient time for testing and inspection by ABAA testing agency. Do not cover Work of this section until testing and inspection by ABAA testing agency has been completed and accepted.
1. Cost of ABAA Testing and Audit: Arrange and pay for site inspections and testing by ABAA to verify conformance of air barrier with specified requirements, air barrier system manufacturer's installation instructions, and ABAA Site Quality Assurance Program.
 2. Extent of Audit and Testing: Provide audit and testing as follows:
 - a. Up to 10,000 sq. ft.: 1 audit/test.
 - b. 10,001 to 35,000 sq. ft.: 2 audits/tests.
 - c. 35,001 to 75,000 sq. ft.: 3 audits/tests.
 - d. 75,001 to 125,000 sq. ft.: 4 audits/tests.
 - e. 125,001 to 200,000 sq. ft.: 5 audits/tests.
 - f. 200,001 sq. ft. and over: 6 audits/tests.
 3. Reporting: Submit written audit/testing reports to Architect within 10 working days of date inspection and testing performed.
 4. Correction: If audit and testing reveals defects, promptly remove and replace defective air barriers at no additional cost to Owner.
- C. Testing Agency: Construction Manager will assign a qualified independent testing and inspection agency, under separate contract to the Owner, to perform field tests and inspections and prepare reports.
1. Inspections: Air-barrier materials, accessories, and installation are subject to inspection for compliance with requirements. Inspections may include the following:
 - a. Continuity of air-barrier system has been achieved throughout the building envelope with no gaps or holes.
 - b. Air-barrier dry film thickness.
 - c. Adhesion tests.
 - d. Continuous structural support of air-barrier system has been provided.

- e. Masonry and concrete surfaces are smooth, clean, and free of cavities, protrusions, and mortar droppings.
 - f. Site conditions for application temperature and dryness of substrates have been maintained.
 - g. Maximum exposure time of materials to UV deterioration has not been exceeded.
 - h. Surfaces have been primed, if applicable.
 - i. Laps in strips and transition strips have complied with minimum requirements and have been shingled in the correct direction (or mastic has been applied on exposed edges), with no fishmouths.
 - j. Termination mastic has been applied on cut edges.
 - k. Strips and transition strips have been firmly adhered to substrate.
 - l. Compatible materials have been used.
 - m. Transitions at changes in direction and structural support at gaps have been provided.
 - n. Connections between assemblies (air-barrier and sealants) have complied with requirements for cleanliness, surface preparation and priming, structural support, integrity, and continuity of seal.
 - o. All penetrations have been sealed.
- 2. Tests: Refer to schedule at end of this Section.
 - 3. Air-Leakage-Location Testing: Air-barrier assemblies will be tested for evidence of air leakage according to ASTM E1186, chamber pressurization or depressurization with smoke tracers or ASTM E1186, chamber depressurization using detection liquids.
 - 4. Air-Leakage-Volume Testing: Air-barrier assemblies will be tested for air-leakage rate according to ASTM E783.
 - 5. Adhesion Testing: Air-barrier assemblies will be tested for required adhesion to substrate according to ASTM D4541 for each 600 sq. ft. of installed air barrier or part thereof.
- D. Air barriers will be considered defective if they do not pass tests and inspections.
 - 1. Apply additional air-barrier material, according to manufacturer's written instructions, where inspection results indicate insufficient thickness.
 - 2. Remove and replace deficient air-barrier components for retesting as specified above.
 - E. Repair damage to air barriers caused by testing; follow manufacturer's written instructions.
 - F. Prepare test and inspection reports.
- 3.6 CLEANING AND PROTECTION
- A. Protect air-barrier system from damage during application and remainder of construction period, according to manufacturer's written instructions.
 - 1. Protect air barrier from exposure to UV light and harmful weather exposure as recommended in writing by manufacturer. If exposed to these conditions for longer than recommended, remove and replace air barrier or install additional, full-thickness, air-barrier application after repairing and preparing the overexposed materials according to air-barrier manufacturer's written instructions.
 - 2. Protect air barrier from contact with incompatible materials and sealants not approved by air-barrier manufacturer.
 - B. Clean spills, stains, and soiling from construction that would be exposed in the completed work using cleaning agents and procedures recommended in writing by manufacturer of affected construction.
 - C. Remove masking materials after installation.

3.7 FIELD TEST SCHEDULE

A. Field Quality Control Testing for Air Leakage:

Location/Test	Testing Standard	Description	Pass/Fail Criteria	Schedule and Type, Number of Tests
One location of System Window	ASTM E 783	Field air leakage testing	<0.09 cfm/sq.ft at 6.24 lbf/sq.ft.	10%, 50% and 90% completion: 4 tests
One location of Storefront	ASTM E 783	Field air leakage testing	<0.09 cfm/sq.ft at 6.24 lbf/sq.ft.	10%, 50% and 90% completion: 4 tests
Curtain Wall/ Metal Panels	ASTM E 783	Field air leakage testing	<0.09 cfm/sq.ft at 6.24 lbf/sq.ft.	10%, 50% and 90% completion: 4 tests
Curtain Wall and window Storefront perimeter sealant tests	ASTM E 1186	Sealant continuity using smoke test		50% and 90% of installed work completion: 12 locations
25 locations: transitions to adjacent systems, field of air barrier penetrations	ASTM E 1186	Field air leakage tests for air barrier assembly		Mock-up, and at 30% and 50% of installed work completion
Canopy and miscellaneous soffits	ASTM E 1186	Field air leakage tests for air barrier assembly		100% prior to cladding, including cladding attachments
Vertical and horizontal expansion joints, including transitions / changes in plane in EJ cover	ASTM E 1186	Field air and water leakage tests		Completion of system

- B. Refer to other sections of the Project manual for testing requirements of building enclosure components including, but not limited to, roofing, openings and glazing.

END OF SECTION 07 27 26