White Bluff Elementary
Above Grade Demolition
Chatham County, Georgia
May 4, 2018
PROJECT MANUAL FOR
White Bluff Elementary
Above Grade Demolition
Chatham County, GA

OWNER:
Savannah-Chatham County Public School System
208 Bull Street
Savannah, Georgia 31401
(912) 395-5600
Fax: (912) 201-7648

ARCHITECTS:
James W. Buckley & Associates, Inc.
7 East Congress Street, Suite 800
Savannah, Georgia 31401
(912) 447-1080
Fax: (912) 447-1060

Project No. 126-17D
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**White Bluff Elementary Above Grade Demolition**  
**Chatham County, Georgia**

The contractor is required to compare this project manual with the index below for completeness. If any pages are missing or illegible, it is his responsibility to request replacements from the architect.

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EXISTING HAZARDOUS MATERIAL INFORMATION

1.1 EXISTING HAZARDOUS MATERIAL INFORMATION

A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for Project. They provide Owner’s information for Bidders’ convenience and are intended to supplement rather than serve in lieu of Bidders’ own investigations. They are made available for Bidders’ convenience and information but are not a warranty of existing conditions. This Document and its attachments are not part of the Contract Documents.

B. An existing asbestos report for Project, prepared by Kadima Inc., dated May 2, 2018 is available for viewing as appended to this Document.

C. Related Requirements:
   1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

END OF DOCUMENT 00 3126
May 2, 2018

Ms. April Mundy
James W. Buckley and Associates Inc.
7 East Congress Street, Suite 800
Savannah, GA 31401

Re: Asbestos Sampling and Testing
White Bluff Elementary School
9902 White Bluff Road
Savannah, GA 31406

Ms. Mundy,

Kadima, Inc. has completed the limited asbestos sampling and testing at the above mentioned project. The following report includes a summary of the bulk testing procedures, testing results and comments.

Please do not hesitate to contact our office at 678.804.9580 should you have any questions regarding the report.

Sincerely,

Stanley M. Murray
Kadima, Inc.
Introduction:

This report presents the results of the comprehensive asbestos survey for the above referenced site. The building consists of an occupied school.

This inspection was performed by Mr. Greg Kilgore, an AHERA (Asbestos Hazard Emergency Response Act) Certified Asbestos Building Inspector.

Purpose:

The purpose of this survey was to identify, locate and quantify any asbestos-containing flooring or ceiling tile materials (ACM) prior to renovation/demolition. The suspect asbestos-containing materials (ACM) were:

- Floor coverings and adhesives
- Ceiling Tile
- Acoustical Ceiling Tiles
- Wallboard/Joint Compound
- Textured Ceiling Material
- Window Caulking/Glazing
- Roofing Materials
- Stucco Materials

This inspection was conducted in general accordance with Environmental Protection Agency (EPA) AHERA guidelines and will satisfy the Georgia Environmental Protection Division (GAEPD) requirements for pre-renovation and pre-demolition inspections. EPA regulation 40 CFR 61, Subpart M, National Emission Standards for Hazardous Air Pollutants (NESHAP), prohibits the release of asbestos fibers to the atmosphere during demolition and renovation activities. The asbestos NESHAP requires that potentially regulated ACM be identified, classified and quantified prior to planned disturbances or renovation activities.

Bulk Sample Survey Protocol:

1. During the inspection, the various building construction materials were categorized into “homogeneous areas” based upon material types, approximate dates of construction, building system/function and appearance.

2. A general floor site map was available for review.

3. A brief walk through of the site to be surveyed allowed conclusions to be made concerning the number of samples needed and the location of the bulk samples to be collected.

4. A visual inspection was conducted to identify the locations of suspect asbestos containing materials.
5. Bulk sampling was conducted in accordance with the procedures outlined in AHERA (40 CFR 763.86 Sampling). These procedures required a random sampling method, which was used to select sampling locations from each homogeneous sampling area. A homogeneous area is defined as an area of surfacing, TSI or miscellaneous material that is uniform in color and texture.

6. The bulk samples were wetted to minimize the release of fibers into the air, sealed within a sample bag and labeled with an identification number. Bulk sample locations were recorded on field drawings.

**Analytical Laboratory Information:**

All bulk samples were analyzed by Polarized Light Microscopy (PLM). The Chain-of-Custody form and asbestos bulk analysis results are attached in Appendix I of this report. The bulk samples were analyzed by an independent third-party accredited laboratory. Scientific Analytical Institute (SAI) is accredited by the National Institute of Standards and Technology (NIST) National Voluntary Accreditation Program (NVLAP) for laboratories analyzing bulk materials by PLM.

**Asbestos Survey Results:**

A total of one hundred (100) bulk samples were collected from suspect ACM. The following building materials contain greater than 1% or more asbestos and are considered asbestos-containing material (ACM):

- **Floor tile and/or associated mastics**

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<tr>
<th>Asbestos Containing Building Materials</th>
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<tr>
<td>Floor tile and associated mastics**</td>
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<td>Floor tile only (black mastic tested negative)**</td>
<td>18,000 SF*</td>
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*Kadima strongly discourages contractors from submitting pricing based solely on any estimated quantities included in this report.*

**Multiple Layers of Floor Tile and associated mastics may exist.*
**Regulatory Overview & Recommendations:**

Friable ACM, Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting, or abrading and which could be crushed or pulverized during anticipated demolition activities are considered regulated ACM (RACM). RACM must be removed prior to renovation or demolition activities, which will disturb the materials. The owner or operator must provide the Georgia Environmental Protection Division (GA EPD) with written notification at least 10 working days prior to the commencement of demolition activity which will include the disturbance of at least 10 linear feet or 10 square feet of RACM. Removal of RACM must be conducted by a GA EPD licensed asbestos abatement contractor. All ACM must be disposed at a permitted landfill. The Georgia Department of Natural Resources (DNR) provides the GA EPD authority for regulating asbestos containing waste.

**Limitations & Conclusions:**

This survey was conducted with the best information available at the time. Hidden ACM may still be present in inaccessible areas. All such unidentified materials should be treated as assumed ACM. The assumed ACM should be sampled to confirm the presence of asbestos prior to the demolition activities. Subcontractors and employees working within the target areas at the site should be aware of the locations of the ACM and the possibility of concealed suspect ACM that could be found during demolition activities. We cannot, guarantee that all potential ACM and other hazardous materials, including quantities, has been located. We do warrant, however, that the investigations and methodology reflect our best efforts based upon the prevailing standard of care in the environmental industry. This report is not intended to serve as a bidding document and any estimated quantities should be field verified for accuracy. No warranty is expressed or implied.

Kadima, Inc. appreciates the opportunity to work with you on this project. Should you have any questions, please contact us at 678.804.9580.

**Attachments:**

PLM results are located in Appendix I.
Inspector accreditations are located in Appendix II.
Appendix I
### Chain of Custody

**Bulk Asbestos Analysis**

**Client Name:** Kadima, Inc.  
**Address:** P. O. Box 2316  
**City, State, Zip:** Buford, GA 30515  
**Contact:** Stan Murray  
**Sampler's Name:** Greg Kilgore  
**Phone:** 770-337-7527  
**Fax:** stan@kadima-inc.com  
**Project Name:** WBES  
**Project Number:**  
**Sampling Date:** 04/17/18

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BULK ASBESTOS ANALYSIS

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**BULK ASBESTOS ANALYSIS**

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**CHAIN OF CUSTODY**

**BULK ASBESTOS ANALYSIS**

**Client Name:** Kadima, Inc.  
**Address:** P. O. Box 2316  
**City, State, Zip:** Buford, GA 30515  
**Contact:** Stan Murray  
**Sampler's Name:** Greg Kilgore  
**Phone:** 770-337-7527  
**Fax:** stan@kadima-inc.com  
**Project Name:** WBES  
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**Sampling Date:** 04/17/18

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**Date/Time:** 4/24/18 3:00 PM  
**Received by:**  
**Date/Time:**  

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**Lab Recipient:**  
**Date/Time:** 4/26/13 3:10  
**Method of Shipment:**  

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### Chain of Custody

**BULK ASBESTOS ANALYSIS**

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**Received by:**

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**Date/Time:**

**Relinquished by:**

[Signature]

**Date/Time:**

**Received by:**

[Signature]

**Date/Time:**

**FOR LAB USE ONLY**

**Lab Recipient:**

[Signature]

**Date/Time:** 4/20/18 3:10 PM

**Method of Shipment:**

**LAB**
### Bulk Sample Summary Report

**Client Name:** Kadima  
**AES Job Number:** 1804P13  
**Project Name:** WBES  
**Project Number:**

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<td>ND  ND  ND  ND  ND  ND</td>
<td>Floor tile</td>
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**Note:** CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophylite  
For comments on the samples, see the individual analysis sheets.  
ND = None Detected

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---

**Microanalyst:**  
Elena Ivanova  

**QC Analyst:**  
Yelena Khanina
### Bulk Sample Summary Report

**Lab Code 102082-0**

**1-May-18**

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---

**Microanalyst:**

Elena Ivanova

**QC Analyst:**

Yelena Khanina
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Microanalyst: Elena Ivanova

QC Analyst: Yelena Khanina
## Bulk Sample Summary Report

**Client Name:** Kadima  
**AES Job Number:** 1804P13  
**Project Name:** WBES  
**Location:**  
**Client ID:** 08  
**AES ID:** 1804P13-008A  
**Layer:** 1

- **Location:** Wing 1 Room 8/ Bottom Floor Tile & Mastic  
- **Asbestos Mineral Percentage:** CH: ND, AM: ND, CR: ND, AN: ND, TR: ND, AC: ND  
- **Comments:** Glue

**Layer:** 2

- **Location:** Wing 1 Room 8/ Bottom Floor Tile & Mastic  
- **Asbestos Mineral Percentage:** CH: ND, AM: ND, CR: ND, AN: ND, TR: ND, AC: ND  
- **Comments:** Floor tile

**Layer:** 3

- **Location:** Wing 1 Room 8/ Bottom Floor Tile & Mastic  
- **Asbestos Mineral Percentage:** CH: ND, AM: ND, CR: ND, AN: ND, TR: ND, AC: ND  
- **Comments:** Black Mastic

**Layer:** 1

- **Location:** Wing 1 Room 10/ Top Floor Tile  
- **Asbestos Mineral Percentage:** CH: ND, AM: ND, CR: ND, AN: ND, TR: ND, AC: ND  
- **Comments:** Floor tile

**Layer:** 2

- **Location:** Wing 1 Room 10/ Top Floor Tile  
- **Asbestos Mineral Percentage:** CH: ND, AM: ND, CR: ND, AN: ND, TR: ND, AC: ND  
- **Comments:** Glue

**Layer:** 1

- **Location:** Wing 1 Room 10/ Bottom Floor Tile & Mastic  
- **Asbestos Mineral Percentage:** CH: ND, AM: ND, CR: ND, AN: ND, TR: ND, AC: ND  
- **Comments:** Glue

---

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---

**Microanalyst:**  
Elena Ivanova

**QC Analyst:**  
Yelena Khanina
### Client ID | AES ID | Location | Asbestos Mineral Percentage | Comments
--- | --- | --- | --- | ---
10 | 1804P13-010A | Wing 1 Room 10/ Bottom Floor Tile & Mastic | 2 | ND ND ND ND ND ND Floor tile
10 | 1804P13-010A | Wing 1 Room 10/ Bottom Floor Tile & Mastic | ND ND ND ND ND ND Black Mastic
11 | 1804P13-011A | Wing 2 Hallway/ Floor Tile & Mastic | ND ND ND ND ND ND Floor tile
11 | 1804P13-011A | Wing 2 Hallway/ Floor Tile & Mastic | ND ND ND ND ND ND Glue
12 | 1804P13-012A | Wing 2 Room 11/ Top Floor Tile | ND ND ND ND ND ND Floor tile
12 | 1804P13-012A | Wing 2 Room 11/ Top Floor Tile | ND ND ND ND ND ND Glue

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Microanalyst: [Signature] Elena Ivanova

QC Analyst: [Signature] Yelena Khanina
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| 13       | 1804P13-013A | Wing 2 Room 11/ Bottom Floor Tile & Mastic | ND  ND  ND  ND  ND  ND   | Black Mastic  |
| Layer: 3 |              |                                   |                             |          |
| 14       | 1804P13-014A | Wing 2 Room 12/ Top Floor Tile     | ND  ND  ND  ND  ND  ND   | Floor tile with glue |
| Layer: 1 |              |                                   |                             |          |
| 15       | 1804P13-015A | Wing 2 Room 12/ Middle Floor Tile  | ND  ND  ND  ND  ND  ND   | Glue     |
| Layer: 1 |              |                                   |                             |          |
| 15       | 1804P13-015A | Wing 2 Room 12/ Middle Floor Tile  | ND  ND  ND  ND  ND  ND   | Floor tile |
| Layer: 2 |              |                                   |                             |          |

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Microanalyst: 
Elena Ivanova

QC Analyst: 
Yelena Khanina
Client Name: **Kadima**  
Project Name: **WBES**  
AES Job Number: **1804P13**  

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Elena Ivanova

QC Analyst:  
Yelena Khanina
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Microanalyst: Elena Ivanova
QC Analyst: Yelena Khanina
**Bulk Sample Summary Report**

**Lab Code 102082-0**

**1-May-18**

**Client Name:** Kadima  
**AES Job Number:** 1804P13

**Project Name:** WBES  
**Project Number:**

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QC Analyst:  
Yelena Khanina
Client Name: Kadima  
Project Name: WBES

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### Bulk Sample Summary Report

**Lab Code:** 102082-0  
**Date:** 1-May-18

**Client Name:** Kadima  
**Project Name:** WBES  
**AES Job Number:** 1804P13  
**Project Number:**

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**Microanalyst:**  
Elena Ivanova

**QC Analyst:**  
Yelena Khanina
**ANALYTICAL ENVIRONMENTAL SERVICES, INC.**  
**Bulk Sample Summary Report**

Lab Code 102082-0  
1-May-18

Client Name: Kadima  
AES Job Number: 1804P13

**Client ID** | **AES ID** | **Location** | **Asbestos Mineral Percentage** | **Comments**
---|---|---|---|---
30 | 1804P13-030A | Wing 3 Room 25/ Floor Tile | ND ND ND ND ND ND | Floor tile

Layer: 1

31 | 1804P13-031A | Wing 3 Room 26/ Floor Tile & Mastic | ND ND ND ND ND ND | Floor tile

Layer: 1

31 | 1804P13-031A | Wing 3 Room 26/ Floor Tile & Mastic | ND ND ND ND ND ND | Black Mastic

Layer: 2

32 | 1804P13-032A | Wing 3 Room 27/ Floor Tile | ND ND ND ND ND ND | Floor tile

Layer: 1

32 | 1804P13-032A | Wing 3 Room 27/ Floor Tile | ND ND ND ND ND ND | Glue

Layer: 2

33 | 1804P13-033A | Wing 3 Room 28/ Floor Tile | ND ND ND ND ND ND | Floor tile

Layer: 1

---

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QC Analyst:  
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**AES Job Number:** 1804P13  
**Project Name:** WBES  
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**QC Analyst:**  
Yelena Khanina
Client Name: **Kadima**  
Project Name: **WBES**

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Microanalyst:  
[Signature]  
Elena Ivanova

QC Analyst:  
[Signature]  
Yelena Khanina
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QC Analyst: Yelena Khanina
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Microanalyst: [Signature]
Elena Ivanova

QC Analyst: [Signature]
Yelena Khanina
## Bulk Sample Summary Report

**Client Name:** Kadima  
**Project Name:** WBES

### AES Job Number: 1804P13

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QC Analyst: Yelena Khanina
Client Name: **Kadima**  
Project Name: **WBES**  
Client ID: **AES Job Number: 1804P13**  
Project Number: 

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<td>64</td>
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<td>Layer: 2</td>
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</table>

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Microanalyst: [Signature]  QC Analyst: [Signature]

Elena Ivanova  Yelena Khanina
### Bulk Sample Summary Report

**Client Name:** Kadima  
**Project Name:** WBES  
**AES Job Number:** 1804P13  
**Project Number:**

<table>
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**QC Analyst:** Yelena Khanina
Client Name: **Kadima**  
Project Name: **WBES**

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<td>72</td>
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QC Analyst:  
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Microanalyst: Elena Ivanova

QC Analyst: Yelena Khanina
## Bulk Sample Summary Report

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**Project Name:** WBES  
**AES Job Number:** 1804P13  
**Project Number:**

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**Microanalyst:** [Signature]

Elena Ivanova

**QC Analyst:** [Signature]

Yelena Khanina
# Bulk Sample Summary Report

<table>
<thead>
<tr>
<th>Client ID</th>
<th>AES ID</th>
<th>Location</th>
<th>Asbestos Mineral Percentage</th>
<th>Comments</th>
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</thead>
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<tr>
<td>88</td>
<td>1804P13-088A</td>
<td>Covered Walkway/ 2nd Layer Felts</td>
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<tr>
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<td>Covered Walkway/ Bitumen On Deck</td>
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<tr>
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<td>Media Center Roof/ Shingle</td>
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<tr>
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<td>A &amp; M Building Roof/ Shingle</td>
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<td>ND</td>
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</tbody>
</table>

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

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Microanalyst: [Signature]  
QC Analyst: [Signature]
Client Name: Kadima  
Project Name: WBES  
AES Job Number: 1804P13  
Project Number:  

<table>
<thead>
<tr>
<th>Client ID</th>
<th>AES ID</th>
<th>Location</th>
<th>Asbestos Mineral Percentage</th>
<th>Comments</th>
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</thead>
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<td>Portable 30 Roof/ Shingle</td>
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<td>98</td>
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<td>Portable 47 Roof/ Felt</td>
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<td>Layer: 1</td>
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<td></td>
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</tr>
</tbody>
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Microanalyst: Elena Ivanova  
QC Analyst: Yelena Khanina
### Client ID | AES ID | Location | Asbestos Mineral Percentage | Comments |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
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<tr>
<td>99</td>
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<td>Portable 52 Roof/ Perimeter Mastic</td>
<td>ND</td>
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<td>100</td>
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<td>Portable 58 Roof/ Perimeter to Steam Coating</td>
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<td>ND</td>
<td>Paint included as binder</td>
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<td>Layer: 2</td>
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</tbody>
</table>

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Microanalyst: Elena Ivanova

QC Analyst: Yelena Khanina
Appendix II
Asbestos Consulting & Training Systems
900 N.W. 5TH Avenue, Fort Lauderdale, Florida 33311 (954) 524-7208

This is to Certify that
Gregory K. Kilgore

has successfully completed an English
Asbestos Building Inspection Refresher
25-Aug-17 TO 25-Aug-17

This Certificate Expires:
25-Aug-18

James F. Stump, Course Sponsor
Certificate Number: 173088
Course Number: GE1734
1.1 PERMIT APPLICATION INFORMATION

A. This Document with its referenced attachments is part of the Procurement and Contracting Requirements for the Project. They provide Owner's information for Bidders' convenience and are intended to supplement rather than serve in lieu of the Bidders' own investigations. This Document and its attachments are not part of the Contract Documents.

B. Permit Application: Complete permit application and file with authorities having jurisdiction within five days of the Notice to Proceed.

C. A Demolition permit application has been filed with Chatham County Building Department, coordinate displaying permit on site.

D. Permits other than The County Demolition permit must be obtained and paid for within base bid

END OF DOCUMENT 00 3143
SECTION 011000

SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
   1. Project information.
   2. Work covered by Contract Documents.
   3. Work under separate contracts.
   4. Future work.
   5. Access to site.
   6. Coordination with occupants.
   7. Work restrictions.
   8. Specification and drawing conventions.

B. Related Requirements:
   1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.

1.3 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of Project is defined by the Contract Documents and consists of the following:

B. The scope of services for the RFP include but is not limited to:
   1. Complete demolition of buildings to concrete slabs and removal of all demolished material from the site.
   2. Arrange and coordinate and provide for the complete disconnection of all utilities and services prior to demolition.
   3. All general condition work required for the demolition including office and facilities, temporary toilets; tree protection; site access and road protection; barriers; traffic protection; water for demolition; dust control.
   4. Remove existing hazardous material and properly dispose of.
   5. Demolition of buildings and on-site improvements
   6. Provide for temporary fencing and gates. This will remain in place throughout the construction period and shall remain in place at the completion of work
   7. Removal of school’s loose furniture that remains after they move out and vacate the buildings including salvaging of equipment as designated on plans or in specifications.
8. All permits, bonds, insurance, and other requirements as specified and as required for the project.
9. Continuous clean-up of the site while working and final clean up upon completion.
10. Project Closeout Documentation as required within the contract and authorities having jurisdiction.

C. Demolition Event:
   1. A demolition event will take place on site at a time coordinated by Owner and architect. The following equipment and personnel need to be on site. This is a full day event. No other work may take place during this event. The news media, Owner and Architect will be in attendance
      a. Two men with new shovels in clean dress to hand excavate the time capsule.
      b. A rubber tire back hoe that has been cleaned and washed. A ceremonial wall will be demolished, the select area will be coordinated with architect prior to event.

D. Type of Contract:
   1. Project will be under a single prime contract.

1.4 WORK UNDER SEPARATE CONTRACTS
   A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts.
   B. Subsequent Work: Owner will award separate contract(s) for the following additional work to be performed at site following Substantial Completion. Completion of that work will depend on successful completion of preparatory work under this Contract.
      1. Site Civil
      2. Building Construction

1.5 FUTURE WORK
   A. The Contract Documents include requirements that will allow Owner to carry out future work following completion of this Project; provide for the following future work:
      1. Proposed new White Bluff Elementary school

1.6 ACCESS TO SITE
   A. General: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.

1.7 COORDINATION WITH OCCUPANTS
   A. Owner Limited Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to place and install equipment in completed portions of the Work, prior to Substantial Completion of the Work, provided such occupancy does not interfere with
completion of the Work. Such placement of equipment and limited occupancy shall not constitute acceptance of the total Work.

1.8 WORK RESTRICTIONS

A. General: Comply with restrictions on construction operations.
   1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.

B. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor-air intakes.

C. Controlled Substances: Use of tobacco products and other controlled substances on Project site is not permitted.

D. Firearms: Possession of firearms and ammunition other firearm related items on Project site is not permitted.

E. Employee Screening: Comply with Owner's requirements for drug and background screening of Contractor personnel working on Project site.
   1. Maintain list of approved screened personnel with Owner's representative.

1.9 SPECIFICATION AND DRAWING CONVENTIONS

A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
   1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
   2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
   1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 1000
SECTION 011250

CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for handling and processing Contract modifications.

1.3 MINOR CHANGES IN THE WORK

A. Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on form included in Project Manual.

1.4 PROPOSAL REQUESTS

A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.

1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.

2. Within time specified in Proposal Request or 20 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.

a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.

b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.

c. Include costs of labor and supervision directly attributable to the change.

d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

e. Quotation Form: Use forms acceptable to Architect.
B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect.

1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
4. Include costs of labor and supervision directly attributable to the change.
5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

1.5 CHANGE ORDER PROCEDURES


1.6 CONSTRUCTION CHANGE DIRECTIVE

1. Work Change Directive contains a complete description of change in the Work. It also designates method to be followed to determine change in the Contract Sum or the Contract Time.

B. Documentation: Maintain detailed records on a time and material basis of work required by the Work Change Directive.
1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011250
SECTION 013100

PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
   1. General coordination procedures.
   2. Coordination
   3. Requests for Information (RFIs).
   4. Project Meetings
   5. Owner’s safety rules and regulations

B. Each contractor shall participate in coordination requirements. Certain areas of responsibility are assigned to a specific contractor.

1.3 DEFINITIONS

A. RFI: Request from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

1.4 INFORMATIONAL SUBMITTALS

A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Use CSI Form 1.5A. Include the following information in tabular form:
   1. Name, address, and telephone number of entity performing subcontract or supplying products.
   2. Number and title of related Specification Section(s) covered by subcontract.
   3. Drawing number and detail references, as appropriate, covered by subcontract.

B. Key Personnel Names: Within 5 days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home, office, and cellular telephone numbers and e-mail addresses. Provide
names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.
1. Post copies of list in project meeting room, in temporary field office, and by each temporary telephone. Keep list current at all times.

1.5 GENERAL COORDINATION PROCEDURES

A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections, that depend on each other for proper installation, connection, and operation.
1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.

B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.

C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
1. Preparation of Contractor's construction schedule.
2. Preparation of the schedule of values.
3. Installation and removal of temporary facilities and controls.
4. Delivery and processing of submittals.
5. Progress meetings.
6. Project closeout activities.

D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.

E. Existing Unities: Coordinate with unities company to disconnect, remove, move site services as needed, obtain unities permits.

F. Employ the services of a licensed electric contractor to perform any electrical work on site

G. Employ the services of a licensed plumbing contractor to perform any work to site sewer or water service

1.6 REQUESTS FOR INFORMATION (RFIs)

A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.
1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.

B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
   1. Project name.
   2. Project number.
   3. Date.
   4. Name of Contractor.
   5. Name of Architect.
   6. RFI number, numbered sequentially.
   7. RFI subject.
   8. Specification Section number and title and related paragraphs, as appropriate.
   9. Drawing number and detail references, as appropriate.
   10. Field dimensions and conditions, as appropriate.
   11. Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
   12. Contractor's signature.
   13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
      a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.

C. RFI Forms: As agreed to between Owner, architect and Contractor
   1. Attachments shall be electronic files in Adobe Acrobat PDF format.

D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow seven working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.
   1. The following Contractor-generated RFIs will be returned without action:
      a. Requests for approval of submittals.
      b. Requests for approval of substitutions.
      c. Requests for approval of Contractor's means and methods.
      d. Requests for coordination information already indicated in the Contract Documents.
      e. Requests for adjustments in the Contract Time or the Contract Sum.
      f. Requests for interpretation of Architect's actions on submittals.
      g. Incomplete RFIs or inaccurately prepared RFIs.
   2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
   3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Division 1 Section "Contract Modification Procedures."
a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 10 days of receipt of the RFI response.

E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log Bi-weekly. Use CSI Log Form 13.2B.
   1. Project name.
   2. Name and address of Contractor.
   3. Name and address of Architect.
   4. RFI number including RFIs that were returned without action or withdrawn.
   5. RFI description.
   6. Date the RFI was submitted.
   7. Date Architect's response was received.

F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within seven days if Contractor disagrees with response.
   1. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.
   2. Identification of related Field Order, Work Change Directive, and Proposal Request, as appropriate.

1.7 PROJECT MEETINGS

A. General: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.
   1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
   2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
   3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within three days of the meeting.

B. Preconstruction Conference: Schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect, but no later than seven (7) days after execution of the Agreement.
   1. Conduct the conference to review responsibilities and personnel assignments.
   2. Attendees: Authorized representatives of Owner Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.

C. Project Closeout Conference: Schedule and conduct a project closeout conference, at a time convenient to Owner and Architect, but no later than 15 days prior to the scheduled date of Material Completion.
   1. Conduct the conference to review requirements and responsibilities related to Project closeout.
2. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the meeting. Participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.

3. Agenda: Discuss items of significance that could affect or delay Project closeout, including the following:
   a. Preparation of record documents.
   b. Procedures required prior to inspection for Material Completion and for final inspection for acceptance.
   c. Preparation of Contractor's punch list.
   d. Procedures for processing Applications for Payment at Material Completion and for final payment.
   e. Submittal procedures.
   f. Coordination of separate contracts.
   g. Responsibility for removing temporary facilities and controls.

4. Minutes: Entity conducting meeting will record and distribute meeting minutes.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013100
SECTION 013200
CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
   1. Startup construction schedule.
   2. Contractor's construction schedule.
   3. Daily construction reports.
   4. Site condition reports.
   5. Special reports.

1.3 DEFINITIONS

A. Activity: A discrete part of a project that can be identified for planning, scheduling, monitoring, and controlling the construction project. Activities included in a construction schedule consume time and resources.
   1. Critical Activity: An activity on the critical path that must start and finish on the planned early start and finish times.
   2. Predecessor Activity: An activity that precedes another activity in the network.
   3. Successor Activity: An activity that follows another activity in the network.

B. Cost Loading: The allocation of the schedule of values for the completion of an activity as scheduled. The sum of costs for all activities must equal the total Contract Sum unless otherwise approved by Architect.

1.4 INFORMATIONAL SUBMITTALS

A. Format for Submittals: Submit required submittals in the following format:
   1. Working electronic copy of schedule file, where indicated.
   2. PDF electronic file.
   3. Two paper copies.

B. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.
1. Submit a working electronic copy of schedule, using software indicated, and labeled to comply with requirements for submittals. Include type of schedule (initial or updated) and date on label.

C. Construction Schedule Updating Reports: Submit with Applications for Payment.

D. Daily Construction Reports: Submit at weekly intervals.

E. Site Condition Reports: Submit at time of discovery of differing conditions.

F. Special Reports: Submit at time of unusual event.

1.5 COORDINATION

A. Coordinate preparation and processing of schedules and reports with performance of construction activities and with scheduling and reporting of separate contractors.

B. Coordinate Contractor's construction schedule with the schedule of values, list of subcontracts, submittal schedule, progress reports, payment requests, and other required schedules and reports.
   1. Secure time commitments for performing critical elements of the Work from entities involved.
   2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.

PART 2 - PRODUCTS

2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE (GANTT CHART)

A. Gantt-Chart Schedule: Submit a comprehensive, fully developed, horizontal, Gantt-chart-type, Contractor's construction schedule within 10 days of date established for the Notice to Proceed. Base schedule on the startup construction schedule and additional information received since the start of Project.

B. Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line.
   1. For construction activities that require three months or longer to complete, indicate an estimated completion percentage in 10 percent increments within time bar.

2.2 REPORTS

A. Daily Construction Reports: Prepare a daily construction report recording the following information concerning events at Project site:
   1. List of subcontractors at Project site.
   2. List of separate contractors at Project site.
   3. Approximate count of personnel at Project site.
   4. Equipment at Project site.
   5. Material deliveries.
6. High and low temperatures and general weather conditions, including presence of rain or snow.

7. Accidents.

8. Meetings and significant decisions.

9. Unusual events (see special reports).

10. Stoppages, delays, shortages, and losses.

11. Meter readings and similar recordings.


13. Orders and requests of authorities having jurisdiction.

14. Change Orders received and implemented.

15. Work Change Directives received and implemented.

16. Services connected and disconnected.

17. Equipment or system tests and startups.

18. Partial completions and occupancies.


B. Site Condition Reports: Immediately on discovery of a difference between site conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

2.3 SPECIAL REPORTS

A. General: Submit special reports directly to Owner within one day(s) of an occurrence. Distribute copies of report to parties affected by the occurrence.

B. Reporting Unusual Events: When an event of an unusual and significant nature occurs at Project site, whether or not related directly to the Work, prepare and submit a special report. List chain of events, persons participating, response by Contractor's personnel, evaluation of results or effects, and similar pertinent information. Advise Owner in advance when these events are known or predictable.

PART 3 - EXECUTION

3.1 CONTRACTOR’S CONSTRUCTION SCHEDULE

A. Distribution: Distribute copies of approved schedule to Architect Owner, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.

1. Post copies in Project meeting rooms and temporary field offices.

2. When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

END OF SECTION 013200
SECTION 015000
TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

1.3 USE CHARGES

A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner's construction forces, Architect, occupants of Project, testing agencies, and authorities having jurisdiction.

B. Sewer Service: Pay sewer-service use charges for sewer usage by all entities for construction operations.

C. Water Service: Pay water-service use charges for water used by all entities for construction operations.
   1. The site water has been requested to be turned off by owner. The contractor may request the water to be turned back on for their use through this contract. The water usage, coordination and re-connect and disconnect costs shall be included in the base bid.

D. Electric Power Service: Pay electric-power-service use charges for electricity used by all entities for construction operations.
   1. The site Electric power has been requested to be turned off by owner. The contractor may request the power to be turned back on for their use through this contract. The Power usage, coordination and reconnect and disconnect costs shall be included in the base bid.

1.4 INFORMATIONAL SUBMITTALS

A. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.
1.5 QUALITY ASSURANCE
   A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
   B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

1.6 PROJECT CONDITIONS
   A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS
   A. Chain-Link Fencing: Minimum 2-inch 0.148-inch- thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts.
   B. Portable Chain-Link Fencing: Minimum 2-inch 0.148-inch- thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch- OD line posts and 2-7/8-inch- OD corner and pull posts, with 1-5/8-inch- OD top and bottom rails. Provide concrete or galvanized-steel bases for supporting posts.
   C. Swing lockable gates at each existing drive 12’ min paired gates along with one 4’ personal gate.

2.2 TEMPORARY FACILITIES
   A. Field Offices, (If needed) General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
   B. Storage and Fabrication Sheds:(If needed) Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
   1. Store combustible materials apart from building.
   C. Sanatory facilities: provide onsite Temporary sanatory facilities as required by Health dept and OHSA

2.3 EQUIPMENT
   A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.

1. Locate facilities to limit site disturbance as specified in Section 011000 "Summary."

B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

A. Telephone Service: The superintendent shall have with him at all time a working cell phone with that number posted

1. Inside field office and at entrance to work area, post a list of important telephone numbers.

   a. Police and fire departments.
   b. Ambulance service.
   c. Superintendent cell phone number
   d. Contractor's home office.
   e. Contractor's emergency after-hours telephone number.
   f. Architect's office.
   g. Engineers' offices.
   h. Owner's office.
   i. Principal subcontractors' field and home offices.

3.3 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.

B. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each work day.

C. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

D. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction.
E. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.

1. Prohibit smoking in construction areas.
2. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.

F. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion.

G. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

H. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.

I. Site Enclosure Fence: Before operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.

1. Extent of Fence: As indicated on Drawings.
2. Temporary fence panels not allowed. Rented fence system not allowed.
3. Maintain security by limiting number of keys and restricting distribution to authorized personnel. Furnish one set of keys to Owner.

3.4 OPERATION, TERMINATION, AND REMOVAL

A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.

B. Maintenance: Maintain facilities in good operating condition until removal.

C. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.

D. Temporary fence shall remain in place at the completion of work, fix repair any damaged fence prior to completion.

END OF SECTION 015000
1.1 RELATED DOCUMENTS
   A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY
   A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
      1. Material Completion procedures.
      2. Final completion procedures.
      3. Warranties.
      4. Repair of the Work.

1.3 ACTION SUBMITTALS
   A. Product Data: For cleaning agents.
   B. Contractor's List of Incomplete Items: Initial submittal at Material Completion.
   C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.4 CLOSEOUT SUBMITTALS
   A. Certificates of Release: From authorities having jurisdiction.
   B. Certificate of Insurance: For continuing coverage.

1.5 MATERIAL COMPLETION PROCEDURES
   A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.
   B. Submittals Prior to Material Completion: Complete the following a minimum of 5 days prior to requesting inspection for determining date of Material Completion. List items below that are incomplete at time of request.
1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.

2. Submit closeout submittals specified in other Division 1 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information.

3. Submit closeout submittals specified in individual Divisions 2 through 16 Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.

C. Procedures Prior to Material Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Material Completion. List items below that are incomplete at time of request.

1. Advise Owner of pending insurance changeover requirements.

D. Inspection: Submit a written request for inspection to determine Material Completion a minimum of 5 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Material Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.

1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

2. Results of completed inspection will form the basis of requirements for final completion.

1.6 FINAL COMPLETION PROCEDURES

A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:

1. Submit a final Application for Payment according to Division 1 Section "Payment Procedures."

2. Certified List of Incomplete Items: Submit certified copy of Architect's Material Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.

3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.

B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 5 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.

1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
PART 2 - PRODUCTS

PART 3 - EXECUTION

3.1 REPAIR OF THE WORK

A. Complete repair and Cleanup operations before requesting inspection for determination of Material Completion.

END OF SECTION 017700
SECTION 017839

PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for project record documents, including the following:

1. Record Drawings.
2. Record Specifications.
3. Miscellaneous record submittals.
4. Hazardous material abatement completion report

1.3 CLOSEOUT SUBMITTALS

A. Record Drawings: Comply with the following:
   1. Number of Copies: Submit copies of record Drawings as follows:
      a. Submit PDF electronic files of scanned record prints and one of file prints.

B. Record Specifications: Submit one paper copy and annotated PDF electronic files of Project's Specifications, including addenda and contract modifications.

C. Miscellaneous Record Submittals: See other Specification Sections for miscellaneous record-keeping requirements and submittals in connection with various construction activities. Submit one paper copy and annotated PDF electronic files and directories of each submittal.
   1. Include field reports
   2. Reports: Submit report indicating Hazardous material abatement completion report into project record documents concurrent with progress of the Work, including revisions, concealed conditions, field changes, and other notations incorporated.
PART 2 - PRODUCTS

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.

B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's and Owner reference during normal working hours.

END OF SECTION 017839
SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
   1. Demolition and removal of selected portions of building or structure.
   2. Demolition and removal of selected site elements.
   3. Salvage of existing items to be reused or recycled.

B. General Scope of Work
   1. Demolish permanent above grade structures, this shall include but not be limited to Exterior walls, roof assemblies, interior walls and finishes. The slab on grade shall remain in place.
   2. Demolish portables, portable building shall not be resold, transported off site whole or recommissioned at an alternate site.
   3. Canopies
      a. Demolish and remove wooden canopies. The sidewalks shall remain in place.
      b. Demolish and remove concrete canopies. The sidewalks shall remain in place.
   4. Baseball Fields are not part of the work. They shall remain in place and be protected from damage through this contract.
   5. Exterior free-standing sign at front entrance shall be removed.
   6. Fencing with in the project site, refer to drawing for the extent of fence to be removed or relocated.

1.3 DEFINITIONS

A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled.

B. Remove and Salvage: Carefully detach from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse.

C. Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall where indicated.
D. Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.4 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.5 PREINSTALLATION MEETINGS

A. Pre-demolition Conference: Conduct conference at Project site.
1. Inspect and discuss condition of construction to be selectively demolished.
2. Review structural load limitations of existing structure.
3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
5. Review areas where existing construction is to remain and requires protection.
6. Protection of existing elements to be preserved

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For refrigerant recovery technician.

B. Proposed Protection Measures: Submit report, including drawings, that indicates the measures proposed for protecting individuals and property. Indicate proposed locations and construction of barriers.

C. Schedule of Selective Demolition Activities: Indicate the following:
1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's on-site operations are uninterrupted.
2. Interruption of utility services. Indicate how long utility services will be interrupted.
3. Coordination for shutoff, capping, and continuation of utility services.

D. Inventory: Submit a list of items to be removed and salvaged and deliver to Owner prior to start of demolition.

E. Pre-demolition Photographs or Video: Submit before Work begins.
1. Photograph each exterior elevation of each building including portables.
2. Photograph existing utilities
3. Photograph site entrances, curbs, sidewalks, signage and vegetation
1.7 CLOSEOUT SUBMITTALS

A. Inventory: Submit a list of items that have been removed and salvaged.

B. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

C. Post-Demolition photographs after work is completed
   1. Photograph of each building slab.
   2. Photograph of each salvage item at the location of storage ready for reuse.

1.8 FIELD CONDITIONS

A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
   1. Before selective demolition, Owner will remove the following items:
      a. Loose furniture and other storage systems, all remaining furniture not removed shall become the responsibility of the contractor to dispose of. The cost of removal and disposal is to be included with in base bid.
      b. Lose furniture and equipment shall be removed from site prior to start of Hazardous material abatement or within the first 15-day which ever come first

B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

C. Hazardous Materials: Hazardous materials are present in buildings and structures to be selectively demolished. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present.
   1. Hazardous material remediation will be performed as part of this contract.

D. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.
PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations. This is the responsibility of this contract. Coordinate with all utility providers.

B. Review record documents of existing construction provided by Owner. Owner does not guarantee that existing conditions are the same as those indicated in record documents.

C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.

D. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.

E. Perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.
   1. Perform surveys as the Work progresses to detect hazards resulting from selective demolition activities.
   2. Steel Tendons: Locate tensioned steel tendons and include recommendations for detensioning.

F. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs.
   1. Inventory and record the condition of items to be removed and salvaged. Provide photographs or video of conditions that might be misconstrued as damage caused by salvage operations.
   2. Before selective demolition or removal of existing building elements that will be reproduced or duplicated in final Work, make permanent record of measurements, materials, and construction details required to make exact reproduction.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
   1. Comply with requirements for existing services/systems interruptions specified in Section 01 1000 "Summary."

B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
   1. Arrange to shut off indicated utilities with utility companies.
   2. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated to be removed.
a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material.
c. Equipment to Be Removed: Disconnect and cap services and remove equipment.

3.3 PREPARATION

A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
   1. Comply with requirements for access and protection specified in Section 015000 "Temporary Facilities and Controls."

B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.

C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
   1. Strengthen or add new supports when required during progress of selective demolition.

3.4 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
   1. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
   2. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
   3. Maintain adequate ventilation when using cutting torches.
   4. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
   5. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
   6. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
   7. Dispose of demolished items and materials promptly.
3.5 REMOVE AND SALVAGE ITEMS

A. General
   1. Clean salvaged items.
   2. Pack or crate items after cleaning. Identify contents of containers.
   3. Store items in a secure area until delivery to Owner.
   4. Transport items to secure on site storage area for re-incorporation
   5. Protect items from damage during transport and storage.

B. Exterior Items
   1. Time Capsule by front entry
   2. Bleachers at ball fields, Backstop on left side field.
   3. Storage shed
   4. Ball field bleachers, Existing bleaches re used in Proposed New Facility, move store and protect on site.

C. Interior Items
   1. Dedication Plaques within the building, as identified by owner,
   2. Lights in the Gym
   3. Banners in the Gym
   4. Wall mounted Basketball Backstops in the Gym
   5. Kiln in Art room
   6. Marker boards, as identified by owner on site

D. Owner removed owner salvage items
   1. (15) Wall hung heat pumps (Bard units) as identified by owner, remove and deliver to owner’s maintenance yard
   2. (2) Mini Split systems at Media Center building remove and deliver to owner’s maintenance yard
   3. (4) ADA swings
   4. Kitchen Equipment
   5. Head-ins on fire alarms
   6. Fire extinguishers
   7. Door Hardware, select items not all door hardware will be removed.
   8. Drinking Fountains as selected by owner
   9. Security systems, IT and energy management
   10. AED Medical device
   11. Residential Appliances
   12. Significant Plaques
   13. Rock Garden
   14. Memorial Benches located at Exterior under canopy

3.6 DISPOSAL OF DEMOLISHED MATERIALS

A. General: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner’s property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.
   1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

B. Burning: Do not burn demolished materials.

C. Disposal: Transport demolished materials and dispose of at designated spoil areas on Owner's property.

D. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

3.7 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 02 4119
SECTION 02 8000

ASBESTOS and HAZARDOUS MATERIAL ABATEMENT

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of contract, including General and Supplementary Conditions and Division-1 Specification sections, apply to work of this Section.

1.02 PERFORMANCE REQUIREMENTS

A. The hazardous material abatement must be performed to conform to OSHA 29CFR1910.134, 29CFR1910.1200, 29CFR 1926.1101, EPA 40CFR Part 61 (NESHAP), State of Georgia EPA lead and asbestos division regulation. Further it will be the responsibility of the licensed abatement contractor to provide a complete set of plans and specifications under Federal EPA 40 CFR 763 (AHERA) for removal of hazardous materials. A full submittal of an Asbestos Project Design including an Asbestos Hazard Abatement Plan and a Site-Specific Health and Safety Plan must be received prior to start of work on site.

1.03 WORK INCLUDED

A. Work includes, but is not limited to, provisions for all labor, material and equipment for asbestos containing materials removal, disposal, air monitoring during abatement and final clearance air testing.

1. The removal of asbestos containing materials shall be performed in accordance with all applicable standards, codes and regulations.

2. A copy of an asbestos survey report is enclosed at the end of this section, Contractor is to visit site prior to bid to establish location and condition of all hazardous material to be removed.

3. Hazardous materials are not limited to materials identified in report only. Contractor is to remove all hazardous material on site.
   a. Removal and proper disposal in minimum of Items listed below
      (1) All thermostats (Mercury)
      (2) All exit Light fixtures
      (3) Ballast in light fixtures using T-12 lamps
      (4) All Florescent lamps
      (5) Pump down all HVAC units

4. Summary of scope of hazardous materials abatement work:
   a. Removal and proper disposal of all hazardous and/or regulated materials to include the following:
      (1) Freon / Chlorofluorocarbons (CFC’s)
      (2) Asbestos
      (3) Polychlorinated Biphenyls (PCB’s)
      (4) Mercury
   b. In progress monitoring and Air Testing at Final Inspection.
1.04 SUBMITTALS

A. The contractor shall submit the following:
   1. Pre-construction Submittals:
      a. Medical exam report for each employee
      b. Certificate of asbestos hazard training for each employee.
      c. Employee liability release form for all employees.
      d. Certificate of respirator training for each employee.
      e. Copies of required notifications.
      f. Letter from landfill indicating acceptance of asbestos waste.
   2. Post-construction Submittals:
      a. Close out documents required in other section of specifications.
      b. Documentation required by listed regulations, codes and standards.
      c. Copy of OSHA required air monitoring test reports.
      d. Copy of other air monitoring test reports.
      e. Copy of disposal records.

B. Delegated Design Submittal: For hazardous material abatement indicated to comply with performance requirements and design criteria, including analysis data, signed and sealed by licensed abatement professional that is responsible for their preparation.

C. Release Forms: Both the General Contractor and the Hazardous Material Contractor shall submit, as part of close out documentation, the following certificates. Copies of forms are enclosed at end of this Section.

1.05 REFERENCE STANDARDS AND REGULATIONS

A. Perform all work in strict accordance with all applicable federal, state and local regulations, standards, and codes governing asbestos abatement and any other trade work done in conjunction with abatement and any otherwise indicated.
   2. Requirements of this specification in no way invalidates the minimum requirements of referenced standards.

B. Comply with provisions of following codes and standards, except as otherwise shown or specified; where conflict occurs among requirements or with these specifications, more stringent requirements apply.

C. Acts, Codes and Executive Orders: Contractor, by signing Agreement, acknowledges that he is aware of and is familiar with the contents and requirements of the following codes, acts and executive orders:
   1. AHERA
   5. Title 29 Code of Federal Regulations Section 1910.20 Access to Employee Exposure and Medical Records.
8. Title 40 Code of Federal Regulations Part 763 Sub-parts E Asbestos Containing Materials in Schools; Final Rule and Notice.
9. "OCGA Title 12, Georgia Asbestos Safety Act Chapter 12 enacted.
12. "Georgia Rules for Solid Waste Management" Chapter 391-4-04 (6) "Special Wastes".
15. EPA Document 530-SW-85-007 "Asbestos Waste Management Guidance".
16. ANSI Z 9.2 Fundamentals Governing the Design and Operation of Local Exhaust Systems
18. DOT 49 CFR, Part 173, Subpart J.
19. All State and Local Codes, Ordinances, etc. where applicable.

D. Codes and Standards: Applicable Codes and Standards as follows:
1. ASTM American Society for Testing and Materials
2. ANSI American National Standards Institute
3. CSA Canadian Standards Association
4. UL Underwriters Laboratories, Inc.
5. ULC Underwriters Laboratories Canada
6. Local Building Code
7. Federal Register - Vol. 49, Number 67, April 5, 1984, pages 13658-13665

E. Industry Standards: Applicable Standards as follows: Industry Standards: Applicable standards for construction industry have same force and effect on performance of work as if copied directly into Contract Documents or bound and published therewith.
1. Standards referenced in Contract Documents or in governing regulations have precedence over non-referenced standards, insofar as different standards may contain overlapping or conflicting requirements.

F. Contractor have at all times in possession at his office and in view at jobsite, one copy of each document listed above.

1.04 REQUIRED PERMITS AND NOTIFICATIONS

A. Contractor responsible for obtaining and paying for all costs associated with required permits, including, but not limited to:
1. Permits for transportation of asbestos.
2. Permit from approved waste disposal site used for disposal (liquid or solid).
3. Permit for disposal of contaminated liquid waste from appropriate officials (water treatment plant).
4. Proper EPA and EPD notifications and payment of applicable fees.
5. Building permit
6. Authors having jurisdiction.
B. Submit, to Architect, satisfactory proof that required permits and notifications obtained prior to commencement of work.

PART 2 - PRODUCTS NOT USED

Use friable method to comply with AHERA for all Class I asbestos containing materials

Use non-friable Bilmar Approach to comply with AHERA for all Class II asbestos containing materials

PART 3 - EXECUTION

3.01 SET UP PROCEDURES

A. Remove all movable objects from proposed work area(s).

B. Shut down HVAC system to work area (and any other ventilation system) before doing any work.

C. If possible, place work area under negative pressure using HEPA filtered ventilation equipment.

D. Pre-clean all openings/penetrations (HVAC vents, doors, windows, electrical outlets, etc.) in work area(s) using HEPA (High Efficiency Particulate Air) filtered vacuum equipment and/or wet cleaning methods as appropriate.
   1. Do not use methods that raise dust, such as dry sweeping and dusting or vacuuming with equipment not equipped with HEPA filters.

E. Seal all openings/penetrations (critical barriers) using one (1) layer of 6 mil plastic and/or tape.
   1. Seal the one (1) door used as the only entrance/exit from work area as shown in attached Diagram 1.

F. Pre-clean fixed objects within work area(s) using HEPA filtered vacuum equipment and/or wet cleaning methods as appropriate, and seal within double layer of 6 mil plastic.

G. Saturate asbestos containing materials with amended water (water with surfactant additive) and allow sufficient time for amended water to penetrate the full extent of the material.

H. Re-saturate asbestos containing materials with amended water before starting removal procedures.

3.02 WORKER PROTECTION

A. Require workers to wear disposable protective clothing (coveralls, heat/foot coverings, gloves, etc.) over street clothes and wear rubber boots.

B. If Class I asbestos work is performed, Contractor is to provide and require that workers wear NIOSH approved, HEPA-filtered, Powered Air Purifying Respirator (PAPR).

C. Workers shall wear protective clothing and respirator any time they are on work area side of curtained doorway.

D. Before leaving work area, workers remove protective clothing (not respirator), place used suit in a bag for disposal with rest of asbestos containing material(s), and thoroughly wash face, hands, and respirator of visible dust or debris.

E. Contractor is responsible to perform all required personnel sampling in accordance with Contractor’s Asbestos Hazard Abatement Plan and Site Specific Health and Safety Plan.

F. The Contractor will be allowed to forego certain requirements if a statistically reliable ‘Negative Exposure Assessment’ is provided in accordance with the OSHA Asbestos Standard for the Construction Industry (29 CFR 1910.1101)
3.03 REMOVAL OF ASBESTOS CONTAINING MATERIALS - PROCEDURES

A. Ensure that all asbestos containing materials surfaces to be removed or abated are fully saturated and adequately wet prior to removal or abatement.

B. Make sure asbestos containing materials are wet and kept thoroughly wetted throughout removal procedures.

C. Do not use grinding, cutting, or sanding power tools to remove asbestos containing materials. This procedure may cause the asbestos containing materials to become friable.

D. Start removal of asbestos containing materials by carefully wedging a tool in between the seam of two (2) adjoining areas and gradually forcing edge away from substrate.

E. Minimize the breaking off of small pieces of asbestos containing materials by continuing to force remainder of asbestos containing materials away from substrate by working hand tool with both forward pressure and twisting action to promote release of asbestos containing materials from substrate.

F. As asbestos containing materials are being removed, place them into 6 mil, labeled poly bag or other labeled leak tight container, without breaking the asbestos containing materials into smaller pieces.

G. When bag(s) are full [do not overfill bags; they can split or be torn by edges of asbestos containing materials], seal with tape and place in labeled leak tight container for disposal.

H. When work area is cleared of asbestos containing material, clean the work area (using HEPA-filtered vacuum equipment and wet cleaning methods as appropriate) and collect all of the cleaning and sorbent materials and place in a labeled leak tight container for disposal.

3.04 CLEAN UP

A. Clean all surfaces in work area (and any other contaminated areas) using wet cleaning methods and/or with HEPA-filtered vacuum equipment.

B. Wait twelve (12) hours to allow for settlement of dust, and again clean all surfaces in work area (and any other contaminated areas) using wet cleaning methods and/or with HEPA-filtered vacuum equipment.

C. Work area is now ready for visual inspection for visible accumulations of dust or debris; if any dust or debris found in work area, re-clean until no visible accumulations exist.

3.05 AIR CLEARANCE TESTING

A. Third party visual inspection and air clearance monitoring shall be contracted by Local Education Agency (LEA) or the Architect.

B. If the response action involves more than 160 SF or 260 LF of friable ACM, 13 air samples must be collected. The average of the five inside samples must be less than 70 s/mm² when analyzed by Transmission Electron Microscopy (TEM). Phase Contrast Microscopy (PCM) analysis is only acceptable for response actions less than 160 SF or 260 LF or non-response action projects. 5 PCM samples shall be collected for response actions less than 160 SF or 260 LF or non-response action projects.

C. The LEA or Architect will pay for all costs associated with hiring an independent third party firm to conduct the required final air clearance sampling and testing. Should the contractor fail clearance testing it will be necessary to re-clean the work areas and re-test those areas. Any testing or cleaning performed after the initial testing shall be at the contractor’s expense.
3.06 FINAL CLEANUP

A. After meeting requirements of visual and final air clearance testing criteria, remove all critical barriers, place in 6 mil, labeled bags, and then airtight labeled, fibrous containers or other leak tight containers for disposal.

3.07 GENERAL NOTES

A. Dispose of asbestos-contaminated waste only in state-approved landfill for asbestos waste.

B. If a worker has potential of being exposed to concentrations of asbestos greater than 0.1 f/cc for 30 days or more per year, or if required to wear negative pressure respirator, meet requirements for medical surveillance under 29 CFR, 1926.58.

END OF SECTION 02 8000
CONTRACTOR'S LETTERHEAD

CERTIFICATE OF CONTRACTOR'S RELEASE

DATE
__________________________________________________________________________

CONTRACTOR
__________________________________________________________________________

ASBESTOS ABATEMENT FOR:
__________________________________________________________________________

(Project Name)

In consideration of work awarded to ____________________________________________

(Contractor's Name)
in connection with the removal and disposal of asbestos, or other work in asbestos-contaminated work area, and in
consideration of the sum of ONE and NO/100 ($1.00) DOLLAR and other good and valuable consideration in hand
paid, at and before the sealing and delivery of these presents, the receipt, sufficiency, and adequacy of which are hereby
acknowledged, the undersigned does hereby acknowledge, warrant, represent, covenant and agree as follows:

1. __________________________________________________________________________

knowingly assumes all risks in connection with potential
asbestos and hereby, for itself and its heirs at law, release independent testing laboratory or engineers employed
by the Owner, Owner's Representative, Architect and all of their directors, officers, employees, nominees,
personal representatives, affiliates, successors and assigns from and against any and all liability whatsoever.
Except as specifically set forth herein ________________ waives and relinquishes any and all claims of
every nature which ________________ now has or may have or claims to have
which ________________ are in any way directly or indirectly related to exposure to asbestos and asbestos-contaminated materials.

2. __________________________________________________________________________

agree to hold the Owner, Owner's Representative, Architect
and ________________ all other consultants harmless from litigation, cost or any liability arising from this asbestos removal project.

CONTRACTOR: __________________________________________________________________

BY: __________________________________________________________________________

NAME: _______________________________________________________________________

Signed in Presence of: ________________________________________________ (Notary Public)----------

(Notary Seal)

My Commission Expires: _______________________________________________________
DATE: ____________________________________________

Asbestos Abatement for: ____________________________________________

__________________________________________ (Project Name)

__________________________________________ (Location)

In consideration of my employment by ____________________________________________ (Contractor’s Name)
in connection with the removal and disposal of asbestos, or other work in asbestos-contaminated work areas, and in
consideration of the sum of One and NO/100 ($1.00) Dollar and other good and valuable consideration in hand paid, at
and before the sealing and delivery of these presents, the receipt, sufficiency, and adequacy of which are hereby
acknowledged, the undersigned does hereby acknowledge, warrant, represent, covenant and agree as follows:

1. I acknowledge and understand that I have been or will be employed in connection with the removal of, disposal
of, or other treatment to, asbestos, or other work in asbestos-contaminated work areas and I acknowledge that I
have been advised of and I understand the danger inherent in handling asbestos and breathing asbestos dust,
including but not limited to, THE FACT THAT ASBESTOS CAN CAUSE ASBESTOSIS AND IS A
KNOWN CARCINOGEN AND CAN, THEREFORE, CAUSE VARIOUS TYPES OF CANCER.

2. I acknowledge and understand that ANY CONTACT WITH ASBESTOS, WHETHER IT CAN BE SEEN OR
NOT, MAY CAUSE ASBESTOSIS AND VARIOUS FORMS OF CANCER, WHICH MAY NOT SHOW
UP FOR MANY YEARS, AND I covenant and agree faithfully to take all precautions required of me.

3. I knowingly assume all risks in connection with potential exposure to asbestos and I do hereby, for myself and
my heirs

at law agree to hold harmless, release and forever discharge ____________________________________________ (Contractor’s Name)

and all of their directors, officers, employees, nominees, personal representatives, affiliates, successors and
assigns from and against any an all liability whatsoever, at common law or otherwise, except any rights which
the undersigned may have under the provisions of the applicable workmen’s compensation laws. Except as
specifically set forth herein I hereby waive and relinquish any and all claims of every nature which I now have
or may have or claim to have which are in any way directly or indirectly related to exposure to asbestos
contaminated materials.

4. I agree to hold the Owner, Owner’s Representative, Architect and all other consultants harmless from litigation,
cost, or any liability arising from this asbestos removal project.

5. I hereby warrant and represent that I have not been disabled, laid off, or compensated in damages or otherwise
because of the disease of asbestosis.

SIGNATURE ____________________________________________

SOCIAL SECURITY NUMBER ____________________________________________

SIGNED IN PRESENCE OF ____________________________________________ (Notary Public) (Notary Seal)