ADDENDUM NO. 1

March 9, 2021

SCHOOL CITY OF HAMMOND -
HAMMOND CENTRAL HIGH SCHOOL
BID PACKAGE 3 - ATHLETIC FIELDS AND DEMOLITION
Hammond, IN 46320

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and the Drawings dated February 17, 2021 by Schmidt Associates. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 1-1 through ADD 1-3 and attached Addendum No. 1 from Schmidt Associates dated March 5, 2021 and consisting of four (4) pages and four (4) drawings.

A. **SPECIFICATION SECTION 00 20 00 - INFORMATION AVAILABLE TO BIDDERS**

1. **Add:**

Environmental Report by Amereco Engineering

B. **SPECIFICATION SECTION 01 12 00 - MULTIPLE CONTRACT SUMMARY**

Under 3.03 Bid Categories make the following adjustments:

1. **BID CATEGORY NO. 1 - BUILDING DEMO & ENVIRONMENTAL REMOVAL**

a. **Revise:**

Clarification No. 5:
The **Bid Category No. 1 Contractor** is responsible to remove and safely crate and store the Class of 1924 Limestone Bench and Urn along with removing and disposing of the existing foundations associated with these items. The **Bid**

Category No. 1 Contractor is responsible to remove the existing High School cornerstone as indicated on the Contract Documents and return to the Owner. The **Bid Category No. 3 Contractor** is responsible to provide limestone cleaning for the salvaged items and shall provide the new reinforced concrete foundations as indicated on the Contract Documents.

b. **Add:**

Clarification No. 8:
The **Bid Category No. 1 Contractor** is responsible to salvage and palatize 5,500 existing masonry units from the demotion. The palletized units shall be delivered and stored at the School City of Hammond Maintenance Building located at 3751 171st Hammond, IN, 46320. This delivery shall be coordinated with the Construction Manager.

c. **Add:**

Clarification No. 9:
The **Bid Category No. 1 Contractor** is responsible to coordinate the removal of the existing onsite NIPSCO electrical transformers. NIPSCO will provide the retirement of the existing units and wiring. The notification to NIPSCO shall start immediately after the Notice to Proceed and shall be procured without causing delays to the overall schedule.

2. **BID CATEGORY NO. 2 - SITEWORK/UTILITIES/PAVING**

a. **Delete:**

Specification Section 04 22 00 - Concrete Unit Masonry

b. **Add:**

Clarification No. 19:
The **Bid Category No. 2 Contractor** is responsible to provide the pressure treated nailing strip for the synthetic turf installation as indicated on the Contract Documents.

3. **BID CATEGORY NO. 3 - GENERAL TRADES**

a. **Revise:**

Clarification No. 12:
The **Bid Category No. 1 Contractor** is responsible to remove and safely crate and store the Class of 1924 Limestone Bench and Urn along with removing and disposing of the existing foundations associated with these items. The **Bid Category No. 1 Contractor** is responsible to remove the existing High School

cornerstone as indicated on the Contract Documents and return to the Owner. The **Bid Category No. 3 Contractor** is responsible to provide limestone cleaning for the salvaged items and shall provide the new reinforced concrete foundations as indicated on the Contract Documents.

b. **Add:**

Clarification No. 15:
The **Bid Category No. 3 Contractor** is responsible to provide limestone cleaning for the salvaged items as indicated in Specification Section - 02 41 16 Structure Demolition. The **Bid Category No. 3 Contractor** is responsible to provide new reinforced concrete foundations for the salvaged items as indicated on the Contract Documents.

c. **Add:**

Specification Section 04 22 00 - Concrete Unit Masonry

d. **Add:**

Specification Section 12 35 53.13 - Metal Casework

e. **Add:**

Specification Section 12 36 23.13 - Plastic-Laminate-Clad Countertops

f. **Add:**

Specification Section 12 93 00 - Site Furnishings

g. **Add:**

Specification Section 13 34 16.99 - Grandstands and Bleachers

h. **Add:**

Specification Section 13 34 23.16 - Fabricated Control Booth

Pre-Demolition Hazardous Materials Building Survey

Site:

Hammond High School
5926 Calumet Avenue
Hammond, IN 46320

Prepared For:

Mr. Robert Moricz, Director of Buildings and Grounds
School City of Hammond
Maintenance Department
3751 E. 171st Street
Hammond, IN 46323

Project Number: 21.1359.1

Date of Report: March 8, 2021

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Appendices

1.0 Introduction

Amereco Engineering (Amereco) was retained by The School City of Hammond, (Client) to conduct a Pre-Demolition Hazardous Materials Building Survey (HMBS) of the Hammond High School building located at 5926 Calumet Avenue, Hammond, IN. This HMBS was performed to identify hazardous building materials that may need to be removed prior to or during demolition of the building.

1.1 Purpose

The primary purpose of the HMBS was to identify the location and presence of asbestos-containing materials (ACMs), lead-based painted (LBP) concrete building components, freon containing refrigeration equipment, mercury containing equipment and materials, potential polychlorinated biphenyls (PCBs), and any other materials that may require special handling or disposal requirements as they relate to environmental conditions and/or hazards.

1.2 Scope of Work

The scope of work for this survey was designed to aid in the preparation of bid documents for the demolition of the building. Indiana Licensed Asbestos and Lead Risk Assessors Jeff Rugg and Devyn Unger performed the pre-demolition HMBS of the building.

1.2.1 Pre-Demolition Asbestos Survey

Prior to the start of the pre-demolition asbestos survey, Amereco personnel reviewed all previous Asbestos Hazard Emergency Response Act (AHERA) Inspection reports and documents provided by the School City of Hammond personnel. The AHERA 3-Year Reinspection report dated September 2016 was the primary document utilized for evaluation of existing asbestos onsite. The original Management Plan for the building was also utilized in preparation of this survey report.

The pre-demolition asbestos survey was performed on February 19 and 22, 2021 and March 1 and 2, 2021. The asbestos survey was performed by Jeff Rugg, License Number 194722071, Exp. 09/24/2021 and Devyn Unger, License # 19A009608, Exp. 08/13/2021. The pre-demolition asbestos survey included the following:

1. The homogeneous areas provided in the September 2016 AHERA 3-year Reinspection Report were continued during this survey. Materials identified during this survey, but not in the previous reporting, were labeled accordingly with new homogenous area identification.

2. A pre-demolition asbestos survey was performed to identify the extent and location of asbestos containing materials (ACM) present within the building. The survey was performed to locate and quantify all friable and non-friable ACMs.

3. Bulk samples were collected of suspect asbestos-containing materials that were previously assumed or not included in the 2016 AHERA 3-year inspection were collected.

4. Bulk samples were collected in accordance with IDEM and EPA-recommended sampling guidelines by the Indiana licensed asbestos inspectors.

5. All samples were submitted and analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory. Samples were analysis using Polarized Light Microscopy (PLM) following EPA test Method EPA-600/R-93/116.

1.2.2 Lead-Based Paint Survey

A limited lead-based paint (LBP) survey was performed on March 2, 2021 by Devyn Unger an Indiana State Department of Health (ISDH) licensed Lead Risk Assessor, License IND001416, Exp. 05/19/2022.

This survey was limited to painted masonry building components. Generally, lead paint is not of concern for demolition, outside of typical work practices to minimize dust production. However, since the masonry components may be recycled, this information assists in the evaluation of potential risk of the material once crushed.

1.2.3 PCBs, Mercury, Lead and Other Hazardous Materials

The survey of the building for PCBs, potential lead/mercury-containing equipment and containers that may contain universal hazardous wastes or regulated materials/wastes was performed.
The entire Hammond High School building was visually inspected for potential hazardous materials, which included possibly PCB-containing light ballasts and transformers, fire suppression equipment, refrigerant containing equipment, chemical settling tanks, science and chemistry chemicals and potential mercury containing thermometers, thermostats, light tubes, and switch gear. Minimal intrusive sampling, sample collection or testing of these materials was performed during the survey. Based on the crop of work and limitations identified during the survey, an inventory of the materials identified has been included that summarizes the findings.

1.3 Limitations and Exceptions of the Survey

Trained, licensed and experienced inspectors were utilized by Amereco to locate and identify potentially containing hazardous materials within the building (asbestos, PCBs, LBP, universal wastes, etc.). Due to the size of the building and the current occupied status, it is possible that not all ACMs and hazardous materials were identified. Much of the survey was performed with assistance from building maintenance personnel who are familiar with the building, but portions of the building were inspected without assistance. Therefore, there may be additional ACMs that were not identified during the inspection, including those that were not visible or accessible at the time. Asbestos, PCBs, and mercury were commonly used in a variety of building components and during construction of buildings. In some of these materials, a hazardous material may be present as a contaminant of the building process.

The following building-specific limitations may apply to this pre-demolition survey:

- Areas enclosed by fixed walls, ceiling systems and roofing systems were restricted to limited visual access. Materials that may be located within fixed walls and ceiling systems include asbestos-containing pipe insulation; cementitious fittings; and fireproofing materials. Inspection of inner wall and ceiling cavities were performed in areas of pre-existing damage, penetrations made during renovations and/or previous destructive investigative techniques. Representative intrusive observations were made inside accessible ceiling and walls, as well as, below flooring materials such as carpeting and vinyl flooring. Due to these limitations, the quantities of hazardous materials presented in this report are estimated. All quantities identified are approximate and shall be confirmed by contractors performing the work.

- The proposed scope of work for this survey was designed specifically to provide documentation to be utilized prior to and during demolition of the building. This survey meets the state and federal requirements for a pre-demolition asbestos survey (NESHAP).

- All unidentifiable and/or inaccessible suspect materials identified by previous reports were assumed to contain asbestos.

- Access to suspect ACMs located within the tunnel portion of the building was restricted due to being considered a confined space. These areas require the use of trained confined space professional, personnel protective equipment and rescue personnel to be safely inspected. Materials located within these areas have been previously identified to contain asbestos and have been included in the findings. Due to access restrictions, actual quantities located within these areas may vary from those estimated within the report.

Other limitations pertaining to materials accessibility and/or characterization may also be described in the survey.

Approximate quantities of ACMs have been included within the report. All quantities and locations shall be confirmed by contractors bidding and performing the removal work.

2.0 Pre-Demolition Asbestos Survey Methodology

2.1 Description of Homogenous Areas

During the pre-demolition asbestos survey, Amereco identified Homogenous Areas (HA) based on previous inspection reports and drawings. Materials previously identified as “assumed” were sampled using previous HA numbers for conformity. Additional suspect ACMs that were identified during the survey were given new HA numbers. As defined by AHERA, a homogenous area is an area (material) that is similar throughout in terms of color, texture and date of application or installation.

Suspect ACMs are also described based on one of three following material classifications:

Surfacing Materials (SURF): A material that is sprayed, troweled, or otherwise applied to a surface. Surfacing materials include acoustical plaster on ceilings and walls and fireproofing materials on structural members, or other materials applied to surfaces for acoustical, fireproofing, or other purposes.

Thermal System Insulation (TSI): Thermal System Insulation (TSI) is a material that is applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss and/or gain, condensation or for other purposes. Common materials identified during the survey included, but are not limited to pipe insulation, air-cell pipe insulation, mag block pipe insulation and cementitious pipe fitting insulation.

Miscellaneous Materials (MISC): Miscellaneous Materials includes all other materials not considered TSI or Surfacing materials. Commonly identified Miscellaneous Materials includes building materials located on structural components, structural members, or fixtures such as floor and ceiling panels. Miscellaneous Materials identified during the survey included, but are not limited to floor tile and sheet-flooring (collectively considered resilient flooring) and associated mastics, ceiling tiles, carpet adhesives, etc.

2.2 Description of Functional Spaces

Functional spaces are defined by spatially distinct units or areas within the building, which contain identifiable populations of building occupants. Commonly, functional spaces can also include storage spaces, mechanical rooms, closets, and service areas, etc. However, a functional space can also be identified based on general building layouts, facility use and can be assigned using various factors that were useful during completion of the survey.

2.3 Bulk Sample Material Inventory

Based on the previously identified homogenous and functional spaces, Amereco collected bulk samples of previously “assumed” ACMs and materials that had not been previously identified or sampled. Sample were collected using individually labeled Whirl-Pack® sterilized sample bags. All samples were labeled with the HA number for the sample and a letter depicting the sample. In general, the protocol used by Amereco for performing bulk samples consisted of: (a) wetting or misting the sample as appropriate, (b) extracting a sample using a clean razor knife, chisel, or coring tool, and (c) placing the sample into its properly labeled sample bag.

The sampling method used to ensure the appropriate number of samples was collected for each homogenous area was based on sampling guidelines outlined by the EPA, AHERA and/or IDEM rules and regulations.

Based on previous sampling, appearances and types of materials, suspect ACMs were grouped into homogenous areas and functional spaces as identified. Representative bulk samples were collected in accordance with all local, state, and federal rules and regulations governing pre-demolition asbestos surveys.

Please refer to the bulk sample log form and analytical reports in Appendix C of the report for all materials and locations sampled.

2.4 Laboratory Procedures

All samples collected during the pre-demolition asbestos survey were submitted to STAT Analysis Corporation (STAT) for analysis. STAT is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP). All samples were submitted to STAT for analysis with a chain-of-custody to ensure proper handling and delivery of the samples. All samples were analysis using Polarized Light Microscopy in accordance with the USEPA guidance document *Determination of Asbestos in Bulk Building Materials*: Method EPA/600/R-93/116, dated July 1993. Under the PLM method, percentages, and types of fibrous components in the sample are determined by visual estimation of the amount of fibrous materials versus the total amount of materials present. Typically, the asbestos concentration of a sample is minimal compared to the entire sample percentage.

Current EPA guidelines specify that laboratory analyses of friable or non-friable materials regulated under NESHAP guidelines detects the presence of asbestos fibers in a quantity between less than trace (less than 1%) and less than ten percent, a verification analysis using the Point Count Method should be considered. If Point Counting of the material is not performed, the material shall be treated as asbestos-containing as identified by PLM analysis.

Upon submission of the PLM bulk samples to the laboratory, Amereco utilized the “stop-positive” method for sample analyses. When utilizing the “stop-positive” method, analyses of a homogenous material is stopped for a group of samples upon the identification of the first positive sample. According to the EPA, if one (1) sample of a homogenous material is identified to be asbestos-containing, the entire homogenous material must be considered asbestos-containing.

2.5 Definition of an Asbestos-Containing Material (ACM) and Regulatory Agencies

The USEPA defines an asbestos-containing material (ACM) as a material that contains greater than one percent (1%) asbestos. Friable materials are defined as those materials that can be crushed, crumbled, or reduced to a powder by hand pressure and therefore fibers may become airborne easily.

Materials that contain one percent or less asbestos are typically considered non-asbestos-containing and therefore not regulated by the EPA National Emissions Standard for Hazardous Air Pollutants (NESHAP) and may be demolished with a building without additional precautions.

The Occupational Safety and Health Administration (OSHA) definition of an asbestos-containing material is similar in that any materials containing more than one precent asbestos are considered to be asbestos-containing. However, specific work practices must be utilized under OSHA regulations for materials containing less than one percent asbestos if an individual layer of the materials exceeds one percent.

3.0 Lead-Based Paint Survey Methodology

3.1 Lead- Based Paint Sampling Procedures

Masonry and concrete painted building components were randomly tested for lead-based paint (LBP). The following was performed during the LBP survey of the building:

1. Areas tested were labeled by functional space for ease of identification.

2. The sides of the building were labeled A, B, C & D. By convention, Side A is the side from which the building address is taken (Calumet Avenue), and all other sides follow in a clockwise direction.

3. Various masonry and concrete painted building components were then randomly tested using a Viken Detection Pb200i X-Ray Fluorescence (XRF) Instrument, Serial Number 2510.

4. All results were stored on the XRF instrument, downloaded, and formatted for the report.

3.2 Definition of Lead-Based Paint (LBP) and Regulatory Information

The Indiana State Department of Health (ISDH) and the Environmental Protection Agency (EPA) define lead-based paint (LBP) as being ≥1.0 mg/cm².

The Occupational Health and Safety Administration (OSHA) Lead Standard for the Construction Industry, 29 CFR 1926.62 covers lead in a variety of forms, including metallic lead, all inorganic lead compounds, and organic lead soap. OSHA requires that all lead materials be handled properly to ensure the health and safety of all workers. This standard includes the demolition or salvage of structures where lead or materials containing lead are present. During demolition of the building, engineering and work practice controls will need to be implemented to reduce and maintain employee exposure to lead at or below the permissible exposure limit (PEL) of 50 µg/m^3 over an 8-hr work period.

4.0 Inspection Findings

Amereco was contracted by the School City of Hammond to conduct a Pre-Demolition Hazardous Materials Building Survey for the Hammond High School building located at 5926 Calumet Avenue, Hammond, Indiana. The purpose of this survey was to identify hazardous materials that may require special handling and/or removal prior to the start of demolition activities. The following sections of this report summarize the findings of the survey.

4.1 Pre-Demolition Asbestos Survey

Summary of Asbestos-Containing Materials

HA Number	Material and Description	Friability
7	12”x12” Floor Tile – Green with Beige Specks	NF
7-M	Associated Mastic – Black	
9	12”x12” Floor Tile – Beige with Green Streaks	NF
9-M	Associated Mastic – Black	
16	Ceiling Tile Adhesive – Brown	NF
22	12”x12” Floor Tile on Wood – Multi-Color Beige	NF
22-M	Associated Mastic – Black	
24	12”x12” Floor Tile – Beige with Black, Gray and Red Specks	NF
24-M	Associated Mastic – Black	
26	12”x12” Floor Tile – Dark Beige with White, Brown and Red Streaks	NF
26-M	Associated Mastic – Black	
28	Sink Coating – White	NF
34	12”x12” Floor Tile – Beige with Brown Streaks	NF
34-M	Associated Mastic – Black	
36	Lab Hood (Transite)	NF
37	Air-Cell Pipe Insulation	F

HA Number	Material and Description	Friability
42	Transite Ceiling Panels	NF
43	12”x12” Floor Tile – Tan with Orange and Brown Streaks	NF
43-M	Associated Mastic – Black	
47	Wire Insulation Associated with Large Kiln	F
50	Mag Block Pipe Insulation	F
51	Cementitious Pipe Fitting Insulation Associated with Mag Block Insulation	F
52	Cementitious Pipe Fittings Insulation Associated with Air-Cell Pipe Insulation	F
64	12”x12” Floor Tile – Gray with White Streaks	NF
64-M	Associated Mastic – Black	
65	12”x12” Floor Tile – Light Beige with White, Gray and Red Specks	NF
65-M	Associated Mastic – Black	
66	Test Tube Drying Rack – Black	NF
67	Cement Panels in Microscope Storage Cabinet – Gray	NF
70	Woven Cloth Beaker Holder Covers and Bunsen Burner Pads – White	F
71	Floor Tile Under Carpeting – Green with Beige Streaks	NF
71-M	Associated Mastic – Black	
72	Window Glazing – White	NF
73	Stage Light Wiring – White	F
78	9”x9” Floor Tile Under Carpeting – Gray with Beige Streaks	NF
78-M	Associated Mastic – Black	
99	Textured Coating on Concrete (Assumed)	F

HA Number	Material and Description	Friability
100	Electrical Isolator Blocks (Assumed)	NF
101	Woven Asbestos Insulation Wire (Assumed)	F
103	Built-up Roofing Materials (Assumed)	NF
104	Gaskets (Assumed)	NF
105	Flexible Duct Connectors (Assumed)	NF
G	12”x12” Floor Tile – Beige with Black, Gray and Brown Specks	NF
G-M	Associated Mastic – Black	
N	Sheet Flooring – Brown with Beige Streaks	NF
V	12”x12” Floor Tile – Beige with Light Green Specks	NF
V-M	Associated Mastic – Black	

Notes: F = Friable NF = Non-Friable SF = Square Feet LF = Linear Feet
TBD = To Be Determined by Contractor

4.1.1 Materials Handling and Management

The various types of asbestos identified will require different methods of management during demolition.

Regulated Asbestos: Regulated asbestos includes friable materials or materials with a high likelihood of becoming friable during demolition. These materials must be removed prior to demolition. Pipe insulations have been identified throughout the 1916 building. Obvious locations are pipe chases, above ceilings and in the tunnel system. However, due to the age of the building and the initial heating source being steam or hot water, asbestos insulation piping may also be located within the exterior walls where they fed radiators. Supply and return piping were either exposed within the classrooms or enclosed within the walls. The abatement contractor shall open walls to verify the presence of insulation pipes and abate the asbestos prior to the start of the demolition project.

Category I Nonfriable Asbestos: Category I Nonfriable asbestos-containing materials have been identified onsite. Examples of these materials include, but is not limited to roofing, resilient flooring, and associated mastics. These materials may remain in-place to be demolished and disposed along with the building as construction and demolition waste. However, if the concrete substrate will be recycled, these materials will need to be removed. Crushing, grinding, and pulverizing will render these materials friable, thus, creating regulated asbestos.

Category II Nonfriable Asbestos: Category II Nonfriable asbestos-containing materials were identified during the survey. Category II Nonfriable materials include transite and concrete-like materials which have a high likelihood of becoming friable during demolition of the building. Therefore, removal of these materials is required prior to the start of the demolition project. Some of the transite panels have been used for roof decking materials, these materials may be removed during the demolition process.

All identified asbestos-containing materials must be handled following all applicable local, state, and federal rules and regulations.

5.0 Lead-Based Paint

Various concrete painted building components were tested for lead-based paint during the survey. These materials were tested due to many of the concrete materials likely to be crush for reuse on the site.

Please be advised that no lead-based painted masonry and/or concrete building materials were identified during the survey. Please refer to Appendix D for the XRF results including all materials tested.

6.0 Other Potentially Hazardous Materials

The survey was conducted to identify potential universal hazardous wastes and/or regulated materials/wastes. During the survey, all accessible areas of the building were inspected for potential hazardous materials, including but not limited to PCBs or oil containing light ballasts, refrigerant containing equipment, Mercury containing fixtures and materials and chemical settling tanks. Sampling of potential hazardous materials and/or components was not performed during the survey.

During the survey, Amereco identified various types of potentially hazardous materials in the building. A quantity schedule of the identified hazardous building materials can be found in Appendix A.

6.1 PCBs

PCB containing sources were identified onsite. There are fluorescent fixtures containing suspect PCB ballasts throughout the building. These ballasts shall be removed and properly disposed prior to demolition.

In addition, Amereco inspected the building for the presence of liquid-cooled electrical units such as transformers and large capacitors. These items are notable since they may be potential sources of PCBs.

6.2 Mercury

Mercury containing sources were identified on-site. Mercury has been identified in the rubber flooring in the gymnasium. This material is located under the parquet flooring on the ground level as well as in the mezzanine areas. Samples of the rubber were collected and analyzed by US EPA SW-846 Test Method 1311: Toxicity Characteristic Leaching Procedure (TCLP). The results of the TCLP analysis identified 2.6 and 3.3 milligrams per Liter (mg/L) Mercury. This concentration is above the Federal Resource Conservation and Recovery Act (RCRA) limit of 0.2 mg/L, and therefore, is a hazardous waste. The contractor will be required to utilize engineering methods for the safe removal, proper packaging, hauling and treatment/disposal. A RCRA ID number will need to be acquired for the transportation and treatment/disposal of the materials. An annual report will also be required to be filed with the Indiana Department of Environmental Management (IDEM) the year following the hazardous waste activity.

In addition, Fluorescent lamps, thermostats, and HVAC controls have been identified throughout the building. All Mercury containing equipment must be collected and properly handled, treated, and disposed prior to the start of demolition.

6.3 Chemicals

Common chemicals used for building maintenance are present throughout the building. However, since the building is currently in use and the chemicals are used daily, the building maintenance chemicals were not inventoried.

Chemistry, biology, and physics labs have a variety of laboratory chemicals that are used for educations purposes. Since school is still in session, these laboratory chemicals were not inventoried.

At this time, it is believed that the School City of Hammond will be reusing, recycling, or removing all chemicals prior to demolition. Any remaining chemicals must be inventoried and removed prior to the start of the demolition project. Chemicals shall be inventoried and safely removed, recycled, or disposed prior to the start of the demolition project.

6.4 Refrigerants

Refrigerants 12, 22 and 422B have been identified on-site. R-12 can be found in the water cooler drinking fountains, refrigerators, and vending machines. R-22 and R-422B can be found in the rooftop packaged HVAC units. Several of the R-22 units have been converted to the “Ozone Safe” R-422B. All refrigerants must be recovered appropriately prior to demolition of the building.

6.5 Universal Wastes

Other universal wastes not specifically described above, include but are not limited to aerosol cans (paints, lubricants, etc.), latex paints, oil-based paint, varnishes, equipment maintenance (grease, grease tubes, spray lubricants, etc.), kitchen disinfectants, oil-filled elevated cylinder, etc. These materials are present throughout the building and must be collected and properly disposed prior to demolition.

6.6 Electrical Transformers

Three (3) large transformers and associated switchgear are located in the electrical supply room. The transformers are labeled “< 50 ppb of PCBs” and NIPSCO was not identified to be stenciled on them. However, the numbering stenciled on the equipment is similar to other NIPSCO transformers/equipment. Therefore, it is our professional opinion that these transformers are the property of NIPSCO.

The demolition contractor should coordinate the removal of these transformers and associated electrical equipment directly with NIPSCO. Once remove, no further action will be necessary.

7.0 Report Limitations

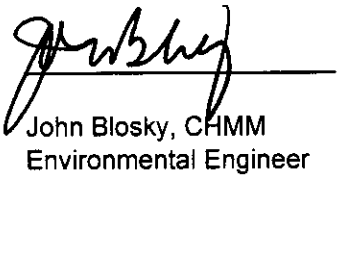
The information and professional recommendations included in this report are for the exclusive use of the School City of Hammond for the demolition project. No distribution to or reliance by other parties may occur without the written permission of Amereco. In addition, Amereco will not distribute this report without the written consent of the School City of Hammond. The final report must be reviewed and relied upon on in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein.

Subject to the terms and conditions of the project, Amereco accepts responsibility for the competent performance of its duties in executing the survey of the building and preparing this report in accordance with the normal standards of the profession but disclaims any responsibility for consequential damages. Although Amereco believed that the results contained within this report are reliable, Amereco cannot warrant or guarantee that the information provided is exhaustive or that the information provided by the client is complete or accurate. Due to the building still being in operation, holes could not be made for interior inspection of walls or ceiling cavities. Pipe insulation and other asbestos-containing materials may be present within wall and ceiling cavities and the demolition contractor shall further investigate to confirm its presence, prior to demolition. All quantities and locations listed are approximate and shall be confirmed by bidding contractors.

8.0 Signatures of Environmental Professionals

The following individuals contributed to the inspection of the building and completion of this report.

Jeff Rugg, CHMM
Senior Environmental Manager



John Blosky, CHMM
Environmental Engineer

Appendix A

Quantity Schedule

AMERECO, INC.

[redacted]

Consulting ◘ Engineering ◘ Project Management
54 Michigan Ave
Valparaiso, IN 46383
(219) 531-0531
Fax: (219) 464-9166

QUANTITIES SCHEDULE

ASBESTOS-CONTAINING MATERIALS:

Line Item	Description	Asbestos Type	Estimated Quantity
1	Floor Tile and Associated Black Mastic	Cat-I	42,500 SF
2	Black Floor Mastic – No Tile	Cat-I	1,300 SF
3	Transite Lab Hood	Cat-II	1 Ea. / 45 SF
4	Transite Ceiling and Shaft Lining Panels	Cat-II	3,000 SF
5	Test Tube Drying Rack – Black	Cat-II	10 Ea. / 60 SF
6	Cement Panels in Microscope Storage Cabinet – Gray	Cat-II	2 Ea. / 60 SF
7	Window Glazing – White	Cat-I	18 Windows
8	Electrical Isolator Blocks	Cat-II	TBD
9	Sheet-Flooring – Brown with Beige Streaks	Cat-I	60 SF
10	Pipe Insulation	F	2,200 LF
11	Pipe Fitting Insulation – Cementitious	F	150 Ea.
12	Wire Insulation – Large Kiln	F	3 LF
13	Wire Insulation – Stage Lighting	F	6 Ea. / 75 LF
14	Woven Wire Insulation – Stage Lighting Control Panels, etc.	F	TBD
15	Textured Coating on Concrete Ceiling (Under Soffit)	F	750 SF
16	Woven Cloth Beaker Holder Covers and Bunsen Burner Pads	F	15 Ea.
17	Sink Insulation – White	Cat-II	2 Ea.
18	Built-up Roofing Materials	Cat-I	103,500 SF
19	Ceiling Tile Adhesive	Cat-I	169,080 SF

Notes:

1. Asbestos Types
    a. F = Friable (Regulated Asbestos Containing Material)
    b. Cat-I = Category I Nonfriable
    c. Cat-II = Category II Nonfriable
2. SF – Square Feet
3. LF – Linear Feet
4. Quantities are approximate and must be verified by the asbestos contractor.

5. All black mastic located within the building has been determined to contain asbestos. Therefore, all black mastic on concrete shall be removed prior to demolition if the concrete materials will be recycled.
6. Additional piping is likely located within wall and ceiling cavities, pipe chases and attic areas.
7. The built-up roofing materials have been assumed to contain asbestos. These materials are considered a Category 1 Non-Friable material and may be demolished with the structure.
8. The ceiling tile adhesive is considered a Category I Non-Friable material. This material is located on non-asbestos-containing plaster and may be demolished with the structure.

UNIVERSAL WASTES AND OTHER CONCERNS:

Line Item	Description	Concern	Estimated Quantity
20	Lamp Ballasts	P	4,335 Ea.
21	Fluorescent Lamps	M	9,400 Ea.
22	HVAC Controls – Thermostats, Etc.	M	TBD
23	Rubber Flooring	M	27,300 SF
24	R-12, R-22, R-422B	R	1,360 Pounds
25	Hydraulic Cylinder Oil – Elevator	U	TBD
26	Fire Suppression Chemical “Karbaloy” – Kitchen	U	TBD
27	Chemical Settling and Neutralizing Tank – Pool	U	1 Ea.

Notes:
1. P = PCBs
2. M = Mercury
3. R = Refrigerant
4. U = Miscellaneous Universal Waste

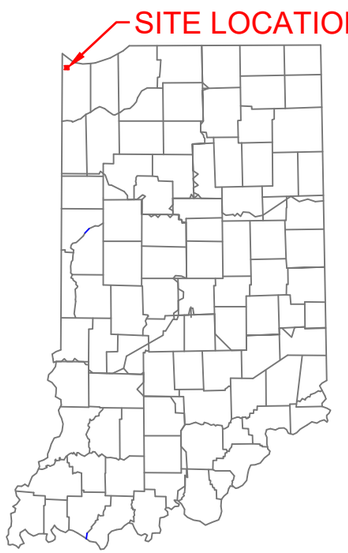
Appendix B

Site Drawings

- Figure 1 – Cover Sheet
- Figure 2 – Ground Floor
- Figure 3 – Level 1
- Figure 4 – Level 2
- Figure 5 – Tunnel, Roof and West Elevation

FORMER HAMMOND HIGH SCHOOL

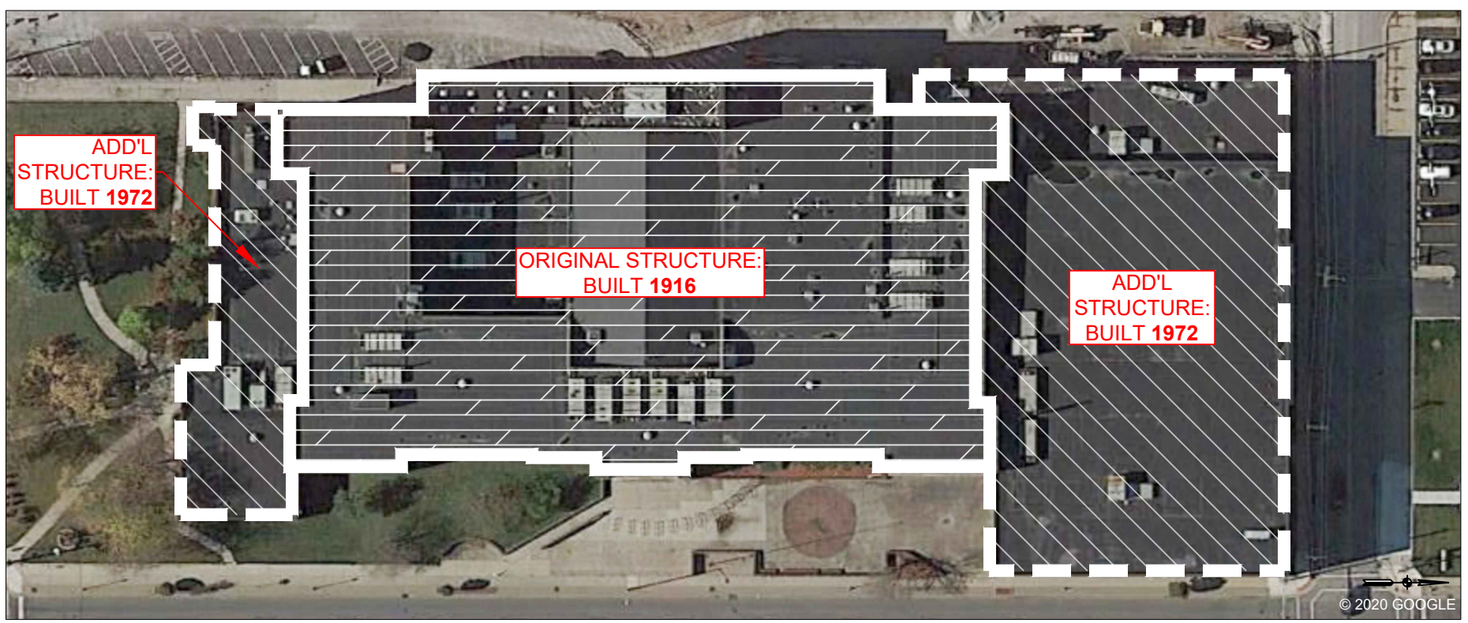
HAZARDOUS MATERIALS BUILDING SURVEY - PRE-DEMOLITION



PROJECT LOCATION SHOWN BY

SCHOOL CITY OF HAMMOND
41 WILLIAMS STREET
HAMMOND, IN 46320

Drawing Index



AMERECO, INC.
CONSULTING ENGINEERS-PROJECT MANAGERS
54 MICHIGAN AVENUE
VALPARAISO, IN 46383 219-531-0531

NO.	REVISION	BY	DATE

DRAWN: L. SALYER
DESIGNED: J. BLOSKY
APPRVD: J. BLOSKY
DATE: MAR. 08, 2021
PROJECT NUMBER: 21.1359

COVER SHEET

HAZARDOUS MATERIALS BUILDING SURVEY
PRE-DEMOLITION
FORMER HAMMOND HIGH SCHOOL
5926 CALUMET AVENUE
HAMMOND INDIANA

SHEET 1 OF 5
FIGURE 1

SCALE: 1"=50'
0' 25' 50' 100'

MATERIALS KEY:

1. ACM FLOORING & MASTIC.....
2. ACM FLOOR MASTIC ONLY.....
3. ACM LAB VENT HOOD
4. ACM TRANSITE PANELS
5. ACM TEST TUBE DRYING RACK
6. ACM PANELS INSIDE MICROSCOPE CABINET
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18. ACM BUILT-UP ROOFING
19. ACM CEILING TILE ADHESIVE
20. LAMP BALLASTS (PCB)
21. LAMPS: FLUORESCENT, MERCURY, ETC.
22. HVAC CONTROLS (MERCURY)
23. RUBBER FLOORING (MERCURY)
24. REFRIGERANTS
25. HYDRAULIC CYLINDER OIL
26. KARBALOY FIRE SUPPRESSION
27. CHEMICAL SETTLING & NEUTRALIZING TANK

GENERAL NOTES:

A. SCALE IS APPROXIMATE. DRAWING IS FOR REPRESENTATION PURPOSES.
B. FLOOR PLANS ADAPTED FROM THE HAMMOND HIGH SCHOOL, AHERA ASBESTOS MANAGEMENT PLAN.
C. EFFORT HAS BEEN MADE TO IDENTIFY LOCATIONS AND QUANTITIES OF MATERIALS OF CONCERN. CONTRACTOR SHALL VERIFY LOCATIONS AND QUANTITIES.
D. ACM = ASBESTOS-CONTAINING MATERIAL.
E. ACM PIPE INSULATION (MATERIAL ID #10 & #11) MAY BE ENCLOSED WITHIN WALLS FROM ORIGINAL STEAM HEATING SYSTEM OR POTABLE WATER DISTRIBUTION LINES. CONTRACTOR SHALL VERIFY AND REMOVE IF PRESENT, PRIOR TO DEMOLITION.
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DRAWN: L. SALYER
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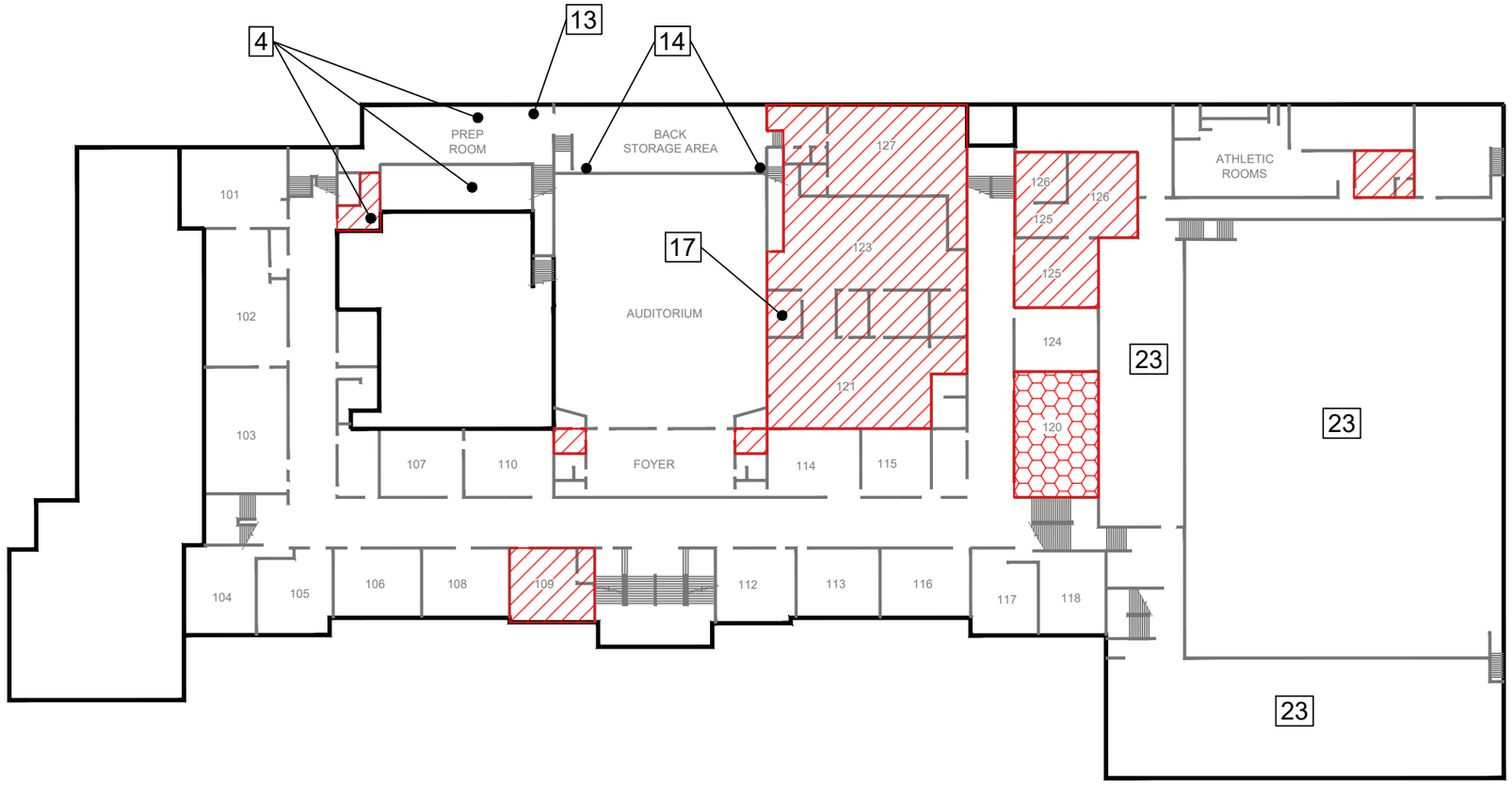
GROUND FLOOR

HAZARDOUS MATERIALS BUILDING SURVEY
PRE-DEMOLITION
FORMER HAMMOND HIGH SCHOOL
5926 CALUMET AVENUE
HAMMOND INDIANA

SHEET 2 OF 5
FIGURE 2



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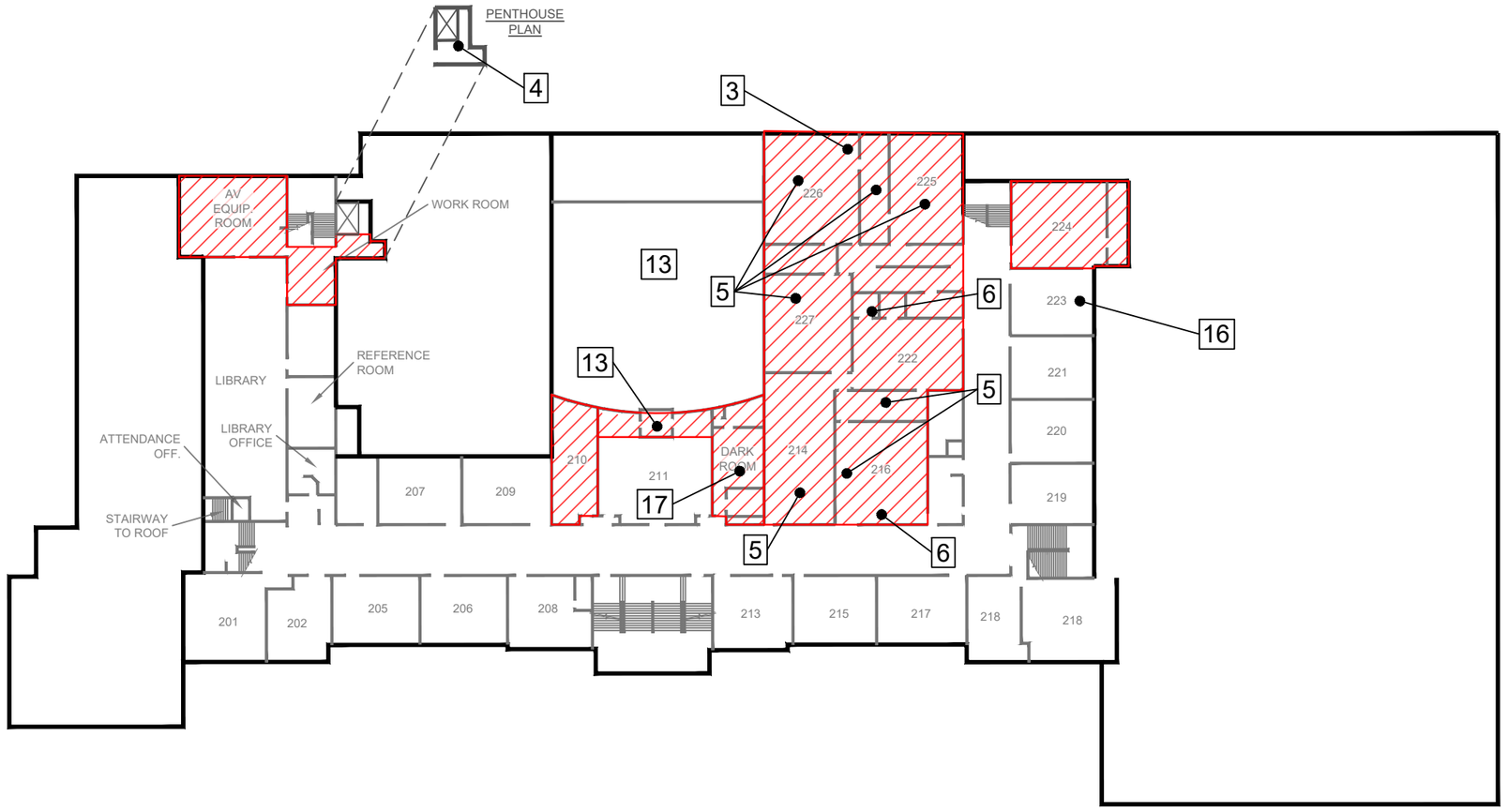
LEVEL 1

HAZARDOUS MATERIALS BUILDING SURVEY
PRE-DEMOLITION
FORMER HAMMOND HIGH SCHOOL
5926 CALUMET AVENUE
HAMMOND INDIANA

SHEET 3 OF 5
FIGURE 3



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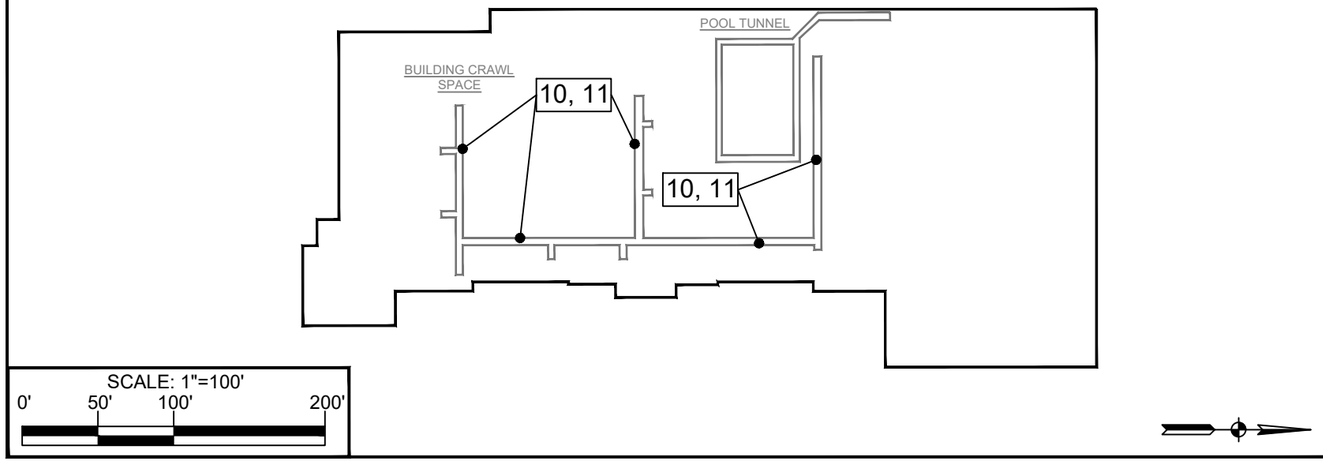
PROJECT NUMBER: 21.1359

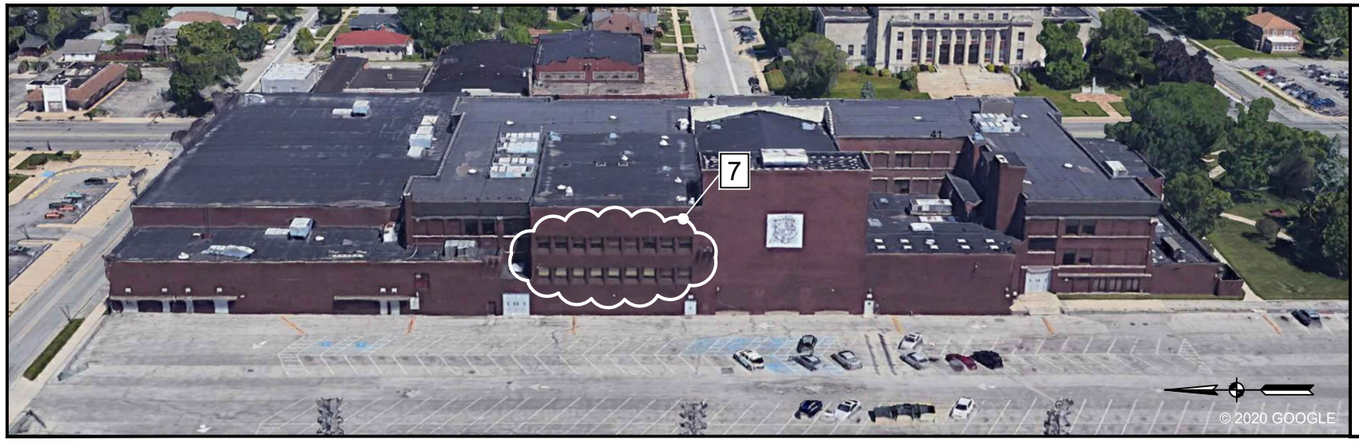
LEVEL 2

HAZARDOUS MATERIALS BUILDING SURVEY
PRE-DEMOLITION
FORMER HAMMOND HIGH SCHOOL
5926 CALUMET AVENUE
HAMMOND INDIANA

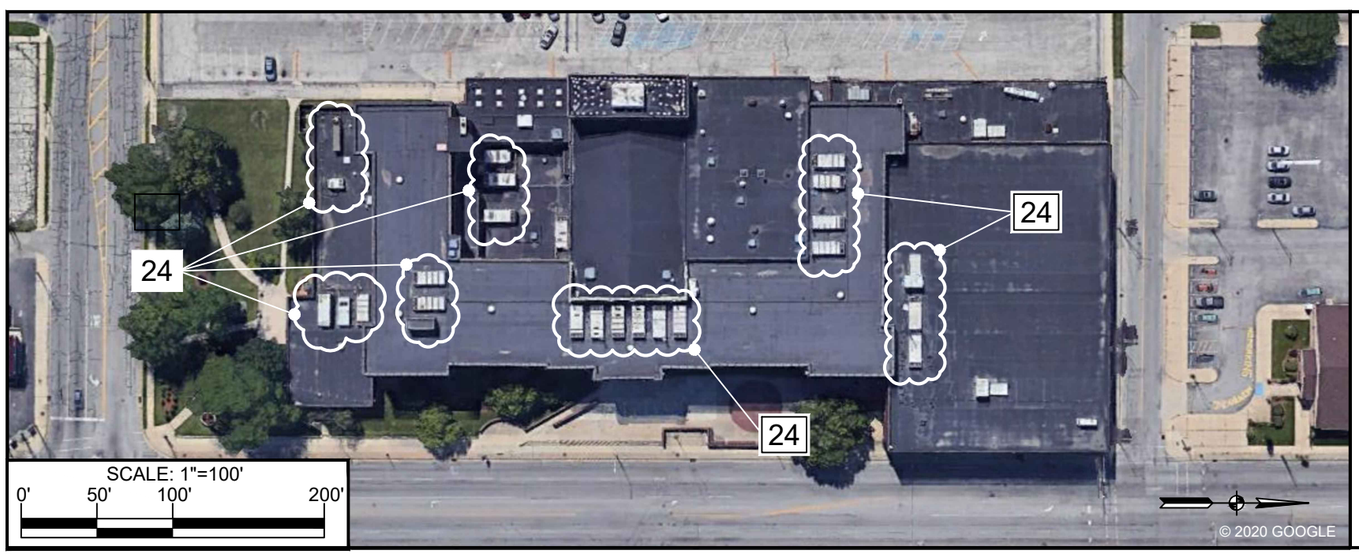
SHEET 4 OF 5
FIGURE 4



5.1 - TUNNELS LAYOUT



5.2 - WEST ELEVATION LAYOUT



5.3 - ROOF LAYOUT

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23. RUBBER FLOORING (MERCURY)
24. REFRIGERANTS
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219-531-0531

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DRAWN: L. SALYER
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TUNNEL, WEST ELEVATION, ROOF

HAZARDOUS MATERIALS BUILDING SURVEY
PRE-DEMOLITION
FORMER HAMMOND HIGH SCHOOL
5926 CALUMET AVENUE
HAMMOND INDIANA

SHEET 5 OF 5
FIGURE 5

Appendix C

Pre-Demolition Asbestos Sample Log Forms and Analytical Reports

Pre-Demolition Asbestos Sample Log
Hammond High School
5926 Calumet Avenue
Hammond, IN 46320

Sample		Sample Locations						
HA Number	Description	A	B	C	D	E	F	G
7	**12"x12" Floor Tile Green with Beige Specks**	**Room 214**	**Uniform Room**					
7-M	**12"x12" Floor Tile Mastic - Black Associated with Sample #7**	**Associated with Sample 7-A**	**Associated with Sample 7-B**					
9	**12"x12" Floor Tile Beige with Green Streaks**	**3rd Floor - AV Room**	**Room 222**					
9-M	**12"x12" Floor Tile Mastic - Black Associated with Sample #9**	**Associated with Sample 9-A**	**Associated with Sample 9-B**					
17-M	Chalkboard Mastic Lime Green	Same as HA 63						
18-M	Chalkboard - Mastic Green	Same as HA 63						
21-M	Chalkboard - Mastic Brown	Same as HA 63						
22	**12"x12" Floor Tile on Wood Multi-Color Beige**	**Room 211 - Storage**						
22-M	**12"x12" Floor Tile Mastic - Black Associated with Sample - #22**	**Associated with Sample 22-A**						
24	**12"x12" Floor Tile Beige with Black, Gray and Red Specks**	**Room 216**	**Room 224**	**Theater Office**				
24-M	**12"x12" Floor Tile Mastic - Black Associated with Sample #24**	**Associated with Sample 24-A**	**Associated with Sample 24-B**	**Associated with Sample 24-C**				
26	**12"x12" Floor Tile Dark Beige with White, Brown and Red Streaks**	**3rd Floor - Dark Room**						
26-M	**12"x12" Floor Tile Mastic Black**	**Associated with Sample 26-A**						

Notes: Shaded and bold materials have been identified to contain asbestos.

Analyzed by: SAC
Reference No.: 351132, 351273 and 351323

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
219.531.0531

Pre-Demolition Asbestos Sample Log
Hammond High School
5926 Calumet Avenue
Hammond, IN 46320

Sample		Sample Locations						
HA Number	Description	A	B	C	D	E	F	G
28	**Sink Coating White**	**Room 212**						
29	Lab Table Tops (Transite)	Room 214	Room 216	Room 222				
34	**12"x12" Floor Tile Beige with Brown Streaks**	**3rd Floor - Science Suite Hallway**						
34-M	**12"x12" Floor Tile Mastic Black**	**Associated with Sample 34-A**						
36	**Lab Hood (Transite)**	**Room 226**						
39	Drywall Ceiling	Auditorium - North	Auditorium - East	Auditorium - West				
40	24"x48" Drop Ceiling Tile Random Fleck with Pinholes	Auditorium Orchestra Pit - North	Auditorium Orchestra Pit - Center	Auditorium Orchestra Pit - South				
43	**12"x12" Floor Tile Tan with Orange and Brown Streaks**	**Room 127**	**Copy Room by Auditorium (On Ceramic)**	**Wood Shop Classroom**				
43-M	**12"x12" Floor Tile Mastic - Black Associated with Sample #43**	**Associated with Sample 43-A**	**Associated with Sample 43-B**	**Associated with Sample 43-C**				
B	Parquette Floor Mastic - Tan	Gymnasium - SE Corner						
E	Rubber Floor Mastic - Grayish/White	Gym Balcony - SE Corner	Gym Balcony - NE Corner	Gym Balcony - South				
F-M	Chalkboard Mastic Associated with Sample #F	Same as HA 63						
G	**12"x12" Floor Tile Beige with Black, Gray and Brown Specks**	**Director of Athletics' Office**						

Notes: Shaded and bold materials have been identified to contain asbestos.

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Amereco Engineering
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Pre-Demolition Asbestos Sample Log
Hammond High School
5926 Calumet Avenue
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Sample		Sample Locations						
HA Number	Description	A	B	C	D	E	F	G
G-M	**12"x12"Floor Tile Mastic - Black Associated with Sample #G**	**Associated with Sample G-A**						
N	**Sheet Flooring Brown with Beige Streaks**	**Gymnasium - NE Stair Landing**						
N-M	Sheet Flooring Mastic - Yellow Associated with Sample #N	Associated with Sample N-A						
U	Carpet Mastic - Yellow	Main Office - Entrance/Lobby	Assistant Principals' Office	Main Office - Conference Room				
V	**12"x12" Floor Tile Beige with Light Green Specks**	**Main Office - Copy Room**						
V-M	**12"x12" Floor Tile Mastic - Black Associated with Sample #V**	**Associated with Sample V-A**						
60	Carpet Mastic Yellow	Library	Hallway Outside Cafeteria					
61	Carpet Mastic Black and Yellow	3rd Floor Hall - Near Room 202	Room 104					
62-F	Plaster Wall Finish Coat	"Friends Den" - Stairs to Roof	Room 224	1st Floor - Custodial Room Near Room 8				
62-R	Plaster Wall Rough Coat	Associated with Sample 62-F-A	Associated with Sample 62-F-B	Associated with Sample 62-F-C				
63	Punch Board/Chalkboard Mastic Gray/Brownish	Room 209	Room 221	Room 107				
64	**12"x12" Floor Tile Gray with White Streaks**	**Room 210**						
64-M	**12"x12" Floor Tile Mastic Black**	**Associated with Sample 64-A**						

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54 Michigan Avenue
Valparaiso, IN 46383
219.531.0531

Pre-Demolition Asbestos Sample Log
Hammond High School
5926 Calumet Avenue
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Sample		Sample Locations						
HA Number	Description	A	B	C	D	E	F	G
65	**12"x12" Floor Tile Light Beige with White, Gray and Red Specks**	**3rd Floor - Dark Room AV Storage**						
65-M	**12"x12" Floor Tile Mastic Black**	**Associated with Sample 65-A**						
66	**Test Tube Drying Rack Black**	**Room 214/216 Storage**	**Room 216**	**Room 226**				
67	**Cement Panel in Microscope Storage Cabinet Gray**	**Room 216**						
68	Thick Coating on Floor Black / Tar Like	3rd Floor Janitors Closet Across from Room 220	2nd Floor Janitors Closet Across from Room 120	Room 124				
69	24"x48" Drop Ceiling Tile Circular Pinhole Pattern	Room 221						
70	Woven Cloth Beaker Holder Covers White	Room 223						
71	**Floor Tile Under Carpeting Green with Beige Streaks**	**Room 126 - Closet**	**Room 125**					
71-M	Floor Tile Mastic Yellow Top	Associated with Sample 71-A	Associated with Sample 71-B					
72	**Window Glazing White**	**Room 127**						
73	**Stage Light Wiring White (Friable)**	**Auditorium Prep Room**						
74	12"x12" Floor Tile Gray with White Specks	Room 101	Room 102	1st Floor Hallway - Outside Room 21				
74-M	12"x12" Floor Tile Mastic Yellow	Associated with Sample 74-A	Associated with Sample 74-B	Associated with Sample 74-C				

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Sample		Sample Locations						
HA Number	**Description**	**A**	**B**	**C**	**D**	**E**	**F**	**G**
75-A	Carpet Glue Greenish	2nd Floor Hallway - Outside Room 103						
76	12"x12" Floor Tile Beige Mottled Pattern - Brown, White and Tan Specks	Room 103	2nd Floor Hall - Drinking Fountain Near Room 120	1st Floor - Room 19				
76-M	12"x12" Floor Tile Mastic Yellow	Associated with Sample 76-A	Associated with Sample 76-B	Associated with Sample 76-C				
77	Carpet Glue Clear	Room 23						
78	**9"x9" Floor Tile Under Carpeting Gray with Beige Streaks**	**Room 24**	**Room 25**					
78-M	**9"x9" Floor Tile Mastic Black**	**Associated with Sample 78-A**	**Associated with Sample 78-B**					
79	24"x48" Lay-in Ceiling Tile 12" Square Pattern - Random Fleck with Pinholes	Teachers' Lounge - Room C-10						
80	24"x48" Lay-in Ceiling Tile Smooth / Cast	Teachers' Lounge Restroom	Cafeteria Serving Line Area	Laundry Room - Room C-12				
81	12"x12" Floor Tile Off-White with Goldish/Gray Flecks	Cafeteria	Kitchen - Dish Washer Area	Laundry Room - Room C-12				
81-M	12"x12" Floor Tile Mastic Brown	Associated with Sample 81-A	Associated with Sample 81-B	Associated with Sample 81-C				
82	Tar Waterproofing Black	Under Stair Storage - Near Room 19	Under Stair Storage - Near Main Office					
83	Vinyl Stair Tread Brown with White Streaks	Gymnasium Stairs - Near Door "N"						
83-M	Viny Stair Tread Mastic Yellow	Associated with Sample 83-A						

Notes: Shaded and bold materials have been identified to contain asbestos.

Analyzed by: SAC
Reference No.: 351132, 351273 and 351323

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
219.531.0531

Pre-Demolition Asbestos Sample Log
Hammond High School
5926 Calumet Avenue
Hammond, IN 46320

Sample		Sample Locations						
HA Number	**Description**	**A**	**B**	**C**	**D**	**E**	**F**	**G**
DUP-1	**QAQC Duplicate of Sample V-A**							
DUP-1-M	**QAQC Duplicate of Sample V-A-M**							
DUP-2	**QAQC Duplicate of Sample 73-A**							
DUP-3	QAQC Duplicate of Sample 68-A							
DUP-4	**QAQC Duplicate of Sample 36-A**							
DUP-5-Finish	QAQC Duplicate of Sample 62-A-Finish							
DUP-5-Rough	QAQC Duplicate of Sample 62-A-Rough							
84-Finish	Plaster Ceiling Finish Layer	Room 204	3rd Floor - Auditorium Spotlight Room	3rd Floor - Stairwell Near Room 223				
84-Rough	Plaster Ceiling Rough Layer	Associated with Sample 84-A-Finish	Associated with Sample 84-B-Finish	Associated with Sample 84-C-Finish				
85-Finish	Plaster Ceiling Finish Layer	Room 126	2nd Floor Hallway - Outside Room 120	Room 112	Auditorium Copy Room	Room 108	2nd Floor - Women's Restroom Near Room 106	Room 101
85-Rough	Plaster Ceiling Rough Layer	Associated with Sample 85-A-Finish	Associated with Sample 85-B-Finish	Associated with Sample 85-C-Finish	Associated with Sample 85-D-Finish	Associated with Sample 85-E-Finish	Associated with Sample 85-F-Finish	Associated with Sample 85-G-Finish
86-Finish	Plaster Ceiling Finish Layer	1st Floor - Women's Restroom Near Guidance Office	Room 9	Hallway Outside Room 12	Room 10	Room 21	Pool - Boys Locker Room Area	Room 22
86-Rough	Plaster Ceiling Rough Layer	Associated with Sample 86-A-Finish	Associated with Sample 86-B-Finish	Associated with Sample 86-C-Finish	Associated with Sample 86-D-Finish	Associated with Sample 86-E-Finish	Associated with Sample 86-F-Finish	Associated with Sample 86-G-Finish

Notes: Shaded and bold materials have been identified to contain asbestos.

Analyzed by: SAC
Reference No.: 351132, 351273 and 351323

Amereco Engineering
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219.531.0531

Pre-Demolition Asbestos Sample Log
Hammond High School
5926 Calumet Avenue
Hammond, IN 46320

Sample		Sample Locations						
HA Number	**Description**	**A**	**B**	**C**	**D**	**E**	**F**	**G**
87	Cementitious Pipe Fitting on Fiberglass Insulation Pipe	1st Floor - Hallway Outside Room 15	1st Floor - Restroom Near Room 18 (Plumbing Pipe Chase)	Gymnasium - North Locker Room				
88	24"x24" Cast Lay-in Ceiling Tile Light Texture - Gray	Pool - Boys Locker Room - North	Pool - Boys Locker Room - South	Pool - Boys Locker Room Entrance From Pool				
89	Caulking Around Aluminum Door Frame White/Soft	Door F						
90	Caulking Around Steel Door Frame Yellow/Hard	Door C						
91	Joint Caulking Between Brick Black	Southwest Corner of Building						
92	Door Caulking Black/Hard	Door B	Door J					
93	Exterior Pipe Wrap Black/Tar Like	South End of Building - Gas Line						
94	Caulking Between Aluminum Frame and Brick Gray	South Side of Building - Window	Door Q					
95	Door Frame Sealant Black/Soft	Door A	Door 5					
96	Caulking/Sealant Below Window Brown	Northeast Windows Near Door P						
97	Caulking Between Steel Beam and Brick Black	Northeast Corner of Gymnasium (South)	Northeast Corner of Gymnasium (North)					
98	Caulking Around Metal Intake Vent White	Exerior - Near Door I						
102	Terazzo Flooring Tan with Green, Gray and Brown Flecks	Stairwell						

Notes: Shaded and bold materials have been identified to contain asbestos.

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Reference No.: 351132, 351273 and 351323

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
219.531.0531

Pre-Demolition Asbestos Sample Log
Hammond High School
5926 Calumet Avenue
Hammond, IN 46320

Sample		Sample Locations						
HA Number	Description	A	B	C	D	E	F	G
102-M	Terazzo Flooring Leveler Black	Associated with Sample 102-A						

Notes: Shaded and bold materials have been identified to contain asbestos.

Analyzed by: SAC
Reference No.: 351132, 351273 and 351323

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STAT Analysis Corporation
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NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
Phone: (219) 531-0531
Fax: (219) 464-9166

Reference: 022221.2 21.1359
Location: Hammond High School Hammond, IN
Batch No.: 351132
Customer No.: 118

Date Received: 02/23/2021
Date Analyzed: 02/26/2021
Date Reported: 02/26/2021
Turn Around Time: 3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351132001	7-A	Chrysotile 5-10%	Binder 90-95%
351132002	7-B	NA	
351132003	7-A-M	Chrysotile 1-5%	Binder 95-99%
351132004	7-B-M	NA	
351132005	9-A	Chrysotile 5-10%	Binder 90-95%
351132006	9-B	NA	
351132007	9-A-M	Chrysotile 1-5%	Binder 95-99%
351132008	9-B-M	NA	
351132009	22-A	Chrysotile 1-5%	Binder 95-99%
351132010	22-A-M	Chrysotile 1-5%	Binder 95-99%
351132011	24-A	Chrysotile 1-5%	Binder 95-99%
351132012	24-B	NA	
351132013	24-C	NA	
351132014	24-A-M	Chrysotile 1-5%	Binder 95-99%
351132015	24-B-M	NA	
351132016	24-C-M	NA	
351132017	26-A	Chrysotile 1-5%	Binder 95-99%
351132018	26-A-M	Chrysotile 1-5%	Binder 95-99%

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Analyzed by Name: Henry Robateau / Microscopist

Date: 02/26/2021

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Method: EPA/600/R-93/116

Amereco Engineering
54 Michigan Avenue
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Phone: (219) 531-0531
Fax: (219) 464-9166

Reference:	022221.2 21.1359	Date Received:	02/23/2021
Location:	Hammond High School Hammond, IN	Date Analyzed:	02/26/2021
Batch No.:	351132	Date Reported:	02/26/2021
Customer No.:	118	Turn Around Time:	3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351132019	29-A	ND	Binder 99-100%
351132020	29-B	ND	Binder 99-100%
351132021	29-C	ND	Binder 99-100%
351132022	34-A	Chrysotile 1-5%	Binder 95-99%
351132023	34-A-M	Chrysotile 1-5%	Binder 95-99%
351132024	36-A	Chrysotile 20-25%	Binder 75-80%
351132025	39-A	ND	Cellulose 5-10% Binder 90-95%
351132026	39-B	ND	Cellulose 5-10% Binder 90-95%
351132027	39-C	ND	Cellulose 5-10% Binder 90-95%
351132028	43-A	Chrysotile 5-10%	Binder 90-95%
351132029	43-B	NA	
351132030	43-C	NA	
351132031	43-A-M	Chrysotile 1-5%	Binder 95-99%
351132032	43-B-M	NA	
351132033	43-C-M	NA	
351132034	60-A	ND	Binder 99-100%

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Reference: 022221.2 21.1359
Location: Hammond High School Hammond, IN
Batch No.: 351132
Customer No.: 118

Date Received: 02/23/2021
Date Analyzed: 02/26/2021
Date Reported: 02/26/2021
Turn Around Time: 3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351132035	60-B	ND	Binder 99-100%
351132036	61-A	ND	Binder 99-100%
351132037	61-B	ND	Binder 99-100%
351132038	62-A-Finish	ND	Binder 99-100%
351132039	62-B-Finish	ND	Binder 99-100%
351132040	62-C-Finish	ND	Binder 99-100%
351132041	62-A-Rough	ND	Binder 90-95% Other 5-10%
351132042	62-B-Rough	ND	Binder 90-95% Other 5-10%
351132043	62-C-Rough	ND	Binder 90-95% Other 5-10%
351132044	63-A	ND	Binder 99-100%
351132045	63-B	ND	Binder 99-100%
351132046	63-C	ND	Binder 99-100%
351132047	64-A	Chrysotile 5-10%	Binder 90-95%
351132048	64-A-M	Chrysotile 1-5%	Binder 95-99%
351132049	65-A	Chrysotile 5-10%	Binder 90-95%
351132050	65-A-M	Chrysotile 1-5%	Binder 95-99%

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Phone: (219) 531-0531
Fax: (219) 464-9166

Reference:	022221.2 21.1359	Date Received:	02/23/2021
Location:	Hammond High School Hammond, IN	Date Analyzed:	02/26/2021
Batch No.:	351132	Date Reported:	02/26/2021
Customer No.:	118	Turn Around Time:	3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351132051	66-A	Chrysotile 20-25%	Binder 75-80%
351132052	66-B	NA	
351132053	66-C	NA	
351132054	67-A	Chrysotile 20-25%	Binder 75-80%
351132055	68-A	ND	Binder 90-95% Other 5-10%
351132056	68-B	ND	Binder 90-95% Other 5-10%
351132057	68-C	ND	Binder 90-95% Other 5-10%
351132058	69-A	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351132059	70-A	Chrysotile 60-65%	Binder 35-40%
351132060	71-A	Chrysotile 5-10%	Binder 90-95%
351132061	71-B	NA	
351132062	71-A-M	ND	Binder 99-100%
351132063	71-B-M	ND	Binder 99-100%
351132064	72-A	Chrysotile 1-5%	Binder 95-99%

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Reference:	022221.2 21.1359	Date Received:	02/23/2021
Location:	Hammond High School Hammond, IN	Date Analyzed:	02/26/2021
Batch No.:	351132	Date Reported:	02/26/2021
Customer No.:	118	Turn Around Time:	3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351132065	73-A	Chrysotile 20-25%	Binder 75-80%
351132066	74-A	ND	Binder 99-100%
351132067	74-B	ND	Binder 99-100%
351132068	74-C	ND	Binder 99-100%
351132069	74-A-M	ND	Binder 99-100%
351132070	74-B-M	ND	Binder 99-100%
351132071	74-C-M	ND	Binder 99-100%
351132072	74-B-Leveler	ND	Binder 99-100%
351132073	74-C-Leveler	ND	Binder 99-100%
351132074	75-A	ND	Binder 99-100%
351132075	76-A	ND	Binder 99-100%
351132076	76-B	ND	Binder 99-100%
351132077	76-C	ND	Binder 99-100%
351132078	76-A-M	ND	Binder 99-100%
351132079	76-B-M	ND	Binder 99-100%
351132080	76-C-M	ND	Binder 99-100%
351132081	76-B-Leveler	ND	Binder 90-95% Other 5-10%

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Analyzed by Name : Henry Robateau / Microscopist Date: 02/26/2021

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Reference:	022221.2 21.1359	Date Received:	02/23/2021
Location:	Hammond High School Hammond, IN	Date Analyzed:	02/26/2021
Batch No.:	351132	Date Reported:	02/26/2021
Customer No.:	118	Turn Around Time:	3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351132082	77-A	ND	Binder 99-100%
351132083	78-A	Chrysotile 5-10%	Binder 90-95%
351132084	78-B	NA	
351132085	78-A-M	Chrysotile 1-5%	Binder 95-99%
351132086	78-B-M	NA	
351132087	79-A	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351132088	79-B	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351132089	80-A	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351132090	80-B	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351132091	80-C	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%

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Location:	Hammond High School Hammond, IN	Date Analyzed:	02/26/2021
Batch No.:	351132	Date Reported:	02/26/2021
Customer No.:	118	Turn Around Time:	3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351132092	81-A	ND	Binder 99-100%
351132093	81-B	ND	Binder 99-100%
351132094	81-C	ND	Binder 99-100%
351132095	81-A-M	ND	Binder 99-100%
351132096	81-B-M	ND	Binder 99-100%
351132097	81-C-M	ND	Binder 99-100%
351132098	82-A	ND	Binder 99-100%
351132099	82-B	ND	Binder 99-100%
351132100	83-A	ND	Binder 99-100%
351132101	83-A-M	ND	Binder 99-100%
351132102	B-A	ND	Cellulose 99-100%
351132103	B-A-M	ND	Binder 99-100%
351132104	E-A-M	ND	Binder 99-100%
351132105	E-B-M	ND	Binder 99-100%
351132106	E-C-M	ND	Binder 99-100%
351132107	G-A	Chrysotile 5-10%	Binder 90-95%
351132108	G-A-M	Chrysotile 1-5%	Binder 95-99%
351132109	N-A	Chrysotile 1-5%	Binder 95-99%

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Phone: (219) 531-0531
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Reference: 022221.2 21.1359
Location: Hammond High School Hammond, IN
Batch No.: 351132
Customer No.: 118

Date Received: 02/23/2021
Date Analyzed: 02/26/2021
Date Reported: 02/26/2021
Turn Around Time: 3 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351132110	N-A-M	ND	Binder 99-100%
351132111	U-A	ND	Binder 99-100%
351132112	U-B	ND	Binder 99-100%
351132113	U-C	ND	Binder 99-100%
351132114	V-A	Chrysotile 5-10%	Binder 90-95%
351132115	V-A-M	Chrysotile 1-5%	Binder 95-99%
351132116	DUP-1	Chrysotile 5-10%	Binder 90-95%
351132117	DUP-1M	Chrysotile 1-5%	Binder 95-99%
351132118	DUP-2	Chrysotile 60-65%	Binder 35-40%
351132119	DUP-3	ND	Binder 99-100%
351132120	DUP-4	Chrysotile 20-25%	Binder 75-80%
351132121	DUP-5-Finish	ND	Binder 99-100%
351132122	DUP-5-Rough	ND	Binder 90-95% Other 5-10%

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Analyzed by Name : Henry Robateau / Microscopist

Date: 02/26/2021

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e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	D. Unger
P.O. Number:	022221.2

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☑ 5 Days: ☐

Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 351132

Samples Acceptable: Yes: ☒ No: ☐

Checked by (Initial/Date): 7/26/21

QC by (Initial/Date): 2/26/21

Reported By (Initial/Date/Time/Method):

Comments:

Relinquished by:	Date/Time: 2/22/21 4:30p
Received by: IZ0449 FED	Date/Time: 398615656
Relinquished by: UPS	Date/Time:
Received by:	Date/Time: 2/23/21 12:19
Relinquished by:	Date/Time:
Received by:	Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other:							
7-A									✓																
7-B									✓																
9-A									✓																
9-B									✓																
22-A									✓																
24-A									✓																
24-B									✓																
24-C									✓																
26-A									✓																
29-A									✓																
29-B									✓																
29-C									✓																
34-A									✓																

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

STAT Analysis Corporation
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e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	D. Unger
P.O. Number:	022221.2

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☑ 5 Days: ☐

Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 351132

Samples Acceptable: Yes: ☒ No: ☐

Checked by (Initial/Date): 2/26/21

QC by (Initial/Date): _____

Reported By (Initial/Date/Time/Method): _____

Comments: _____

Relinquished by:		Date/Time: 2/22/21/4:30
Received by:	120449660394	Date/Time: 8615656
Relinquished by:	UPS	Date/Time:
Received by:	EL	Date/Time: 2/23/21 12:19
Relinquished by:		Date/Time:
Received by:		Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other:							
36-A									✓																
39-A									✓																
39-B									✓																
39-C									✓																
43-A									✓																
43-B									✓																
43-C									✓																
60-A									✓																
60-B									✓																
61-A									✓																
61-B									✓																
62-A									✓																
62-B									✓																

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	D. Unger
P.O. Number:	022221.2

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☑ 5 Days: ☐

Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 351132

Samples Acceptable: Yes: ☒ No: ☐

Checked by (Initial/Date): 2/26/21

QC by (Initial/Date): _____

Reported By (Initial/Date/Time/Method): _____

Comments: _____

Relinquished by:		Date/Time: 2/22/21 14:30
Received by:	120449760039	Date/Time: 8615656
Relinquished by:	UPS	Date/Time:
Received by:	[illegible]	Date/Time: 2/23/21 12:19
Relinquished by:		Date/Time:
Received by:		Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other:							
62-C									/																
63-A									/																
63-B									/																
63-C									/																
64-A									/																
65-A									/																
66-A									/																
66-B									/																
66-C									/																
67-A									/																
68-A									/																
68-B									/																
68-C									/																

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	D. Unger
P.O. Number:	022221.2

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☑ 5 Days: ☐

Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 351132

Samples Acceptable: Yes: ☒ No: ☐

Checked by (Initial/Date): 2/24/21

QC by (Initial/Date): _____

Reported By (Initial/Date/Time/Method): _____

Comments: _____

Relinquished by:		Date/Time: 2/22/21 14:30
Received by:	120449F6039	Date/Time: 861656
Relinquished by:	UPS	Date/Time:
Received by:	[illegible]	Date/Time: 2/23/21 1211
Relinquished by:		Date/Time:
Received by:		Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other:							
69-A									✓																
70-A									✓																
71-A									✓																
71-B									✓																
72-A									✓																
73-A									✓																
74-A									✓																
74-B									✓																
74-C									✓																
75-A									✓																
76-A									✓																
76B									✓																
76-C									✓																

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
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CHAIN OF CUSTODY RECORD

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	D. Vogel
P.O. Number:	022221.2

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☑ 5 Days: ☐

Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 351132

Samples Acceptable: Yes: ☒ No: ☐

Checked by (Initial/Date): 2/24/21

QC by (Initial/Date): _____

Reported By (Initial/Date/Time/Method): _____

Comments: _____

Relinquished by:	Date/Time: 2/22/21 14:30
Received by: 120449 6039	Date/Time: 2/15/56
Relinquished by: UPS	Date/Time:
Received by:	Date/Time: 2/23/21 12: 19
Relinquished by:	Date/Time:
Received by:	Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other:						
77-A									✓															
78-A									✓															
78-B									✓															
79-A									✓															
79-B									✓															
80A									✓															
80-B									✓															
80-C									✓															
81-A									✓															
81-B									✓															
81-C									✓															
82-A									✓															
82-B									✓															

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

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e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD Page : 6 of 7

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21-1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	D. Unge
P.O. Number:	022221.2

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☑ 5 Days: ☐
Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:
Batch No.: 351132
Samples Acceptable: Yes: ☒ No: ☐
Checked by (Initial/Date): 2/24/21
QC by (Initial/Date): _____
Reported By (Initial/Date/Time/Method): _____
Comments: _____

Relinquished by: _____ Date/Time: 2/22/21 14:30
Received by: 1Z0Y49F60394 Date/Time: 8615656
Relinquished by: UPS Date/Time: _____
Received by: EL Date/Time: 2/23/21 12:19
Relinquished by: _____ Date/Time: _____
Received by: _____ Date/Time: _____

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other: Mercury						
83-A									✓															
B-A									✓															
EA (Mastic Only)									✓															
E-B (Mastic Only)									✓															
E-C (Mastic Only)									✓															
G-A									✓															
N-A									✓															
U-A									✓															
U-B									✓															
U-C									✓															
V-A									✓															
HG-A (5 Day TAT)																		✓						
BHG-A (5 Day TAT)																		✓						

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

Please analyze both Mercury samples on 5-Day TAT.

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD Page : 7 of 7

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	Hammond #32 School 21.1359
Project Name:	Hammond, High School
Project Location:	Hammond, IN
Project Manager:	D. Vage
P.O. Number:	022221.2

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☑ 5 Days: ☐
Date Due: Time Due: Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 351132

Samples Acceptable: Yes: ☒ No: ☐
Checked by (Initial/Date):
QC by (Initial/Date):
Reported By (Initial/Date/Time/Method):
Comments:

Relinquished by:	Date/Time: 2/22/21 4:30
Received by: 120449F6039	Date/Time: 8615656
Relinquished by: UPS	Date/Time:
Received by:	Date/Time: 2/23/21 12:19
Relinquished by:	Date/Time:
Received by:	Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other:							
DUP-1									/																
DUP-2									/																
DUP-3									/																
DUP-4									/																
DUP-5									/																

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
Phone: (219) 531-0531
Fax: (219) 464-9166

Reference:	21.1359/030321.1	Date Received:	03/03/2021
Location:	Hammond High School	Date Analyzed:	03/04/2021
Batch No.:	351273	Date Reported:	03/04/2021
Customer No.:	118	Turn Around Time:	1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351273001	40-A	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351273002	40-B	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351273003	40-C	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351273004	84-A-Finish	ND	Binder 99-100%
351273005	84-B-Finish	ND	Binder 99-100%
351273006	84-C-Finish	ND	Binder 99-100%
351273007	84-A-Rough	ND	Binder 90-95% Other 5-10%
351273008	84-B-Rough	ND	Binder 90-95% Other 5-10%
351273009	84-C-Rough	ND	Binder 90-95% Other 5-10%
351273010	85-A-Finish	ND	Binder 99-100%
351273011	85-B-Finish	ND	Binder 99-100%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

Analyzed by Name :

Henry Robateau / Microscopist

Date: 03/04/2021

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
Phone: (219) 531-0531
Fax: (219) 464-9166

Reference: 21.1359/030321.1
Location: Hammond High School
Batch No.: 351273
Customer No.: 118

Date Received: 03/03/2021
Date Analyzed: 03/04/2021
Date Reported: 03/04/2021
Turn Around Time: 1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351273012	85-C-Finish	ND	Binder 99-100%
351273013	85-D-Finish	ND	Binder 99-100%
351273014	85-E-Finish	ND	Binder 99-100%
351273015	85-F-Finish	ND	Binder 99-100%
351273016	85-G-Finish	ND	Binder 99-100%
351273017	85-A-Rough	ND	Binder 90-95% Other 5-10%
351273018	85-B-Rough	ND	Binder 90-95% Other 5-10%
351273019	85-C-Rough	ND	Binder 90-95% Other 5-10%
351273020	85-D-Rough	ND	Binder 90-95% Other 5-10%
351273021	85-E-Rough	ND	Binder 90-95% Other 5-10%
351273022	85-F-Rough	ND	Binder 90-95% Other 5-10%
351273023	85-G-Rough	ND	Binder 90-95% Other 5-10%
351273024	86-A-Finish	ND	Binder 99-100%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

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Analyzed by Name: Henry Robateau / Microscopist

Date: 03/04/2021

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
Phone: (219) 531-0531
Fax: (219) 464-9166

Reference: 21.1359/030321.1
Location: Hammond High School
Batch No.: 351273
Customer No.: 118

Date Received: 03/03/2021
Date Analyzed: 03/04/2021
Date Reported: 03/04/2021
Turn Around Time: 1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351273025	86-B-Finish	ND	Binder 99-100%
351273026	86-C-Finish	ND	Binder 99-100%
351273027	86-D-Finish	ND	Binder 99-100%
351273028	86-E-Finish	ND	Binder 99-100%
351273029	86-F-Finish	ND	Binder 99-100%
351273030	86-G-Finish	ND	Binder 99-100%
351273031	86-A-Rough	ND	Binder 90-95% Other 5-10%
351273032	86-B-Rough	ND	Binder 90-95% Other 5-10%
351273033	86-C-Rough	ND	Binder 90-95% Other 5-10%
351273034	86-D-Rough	ND	Binder 90-95% Other 5-10%
351273035	86-E-Rough	ND	Binder 90-95% Other 5-10%
351273036	86-F-Rough	ND	Binder 90-95% Other 5-10%
351273037	86-G-Rough	ND	Binder 90-95% Other 5-10%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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Analyzed by Name: Henry Robateau / Microscopist

Date: 03/04/2021

STAT Analysis Corporation
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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
Phone: (219) 531-0531
Fax: (219) 464-9166

Reference:	21.1359/030321.1	Date Received:	03/03/2021
Location:	Hammond High School	Date Analyzed:	03/04/2021
Batch No.:	351273	Date Reported:	03/04/2021
Customer No.:	118	Turn Around Time:	1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351273038	87-A	ND	Binder 80-85% Glass 15-20%
351273039	87-B	ND	Binder 80-85% Glass 15-20%
351273040	87-C	ND	Binder 80-85% Glass 15-20%
351273041	88-A	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351273042	88-B	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351273043	88-C	ND	Cellulose 30-35% Binder 30-35% Glass 30-35%
351273044	89-A	ND	Binder 99-100%
351273045	90-A	ND	Binder 99-100%
351273046	91-A	ND	Binder 99-100%
351273047	92-A	ND	Binder 99-100%
351273048	92-B	ND	Binder 99-100%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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Analyzed by Name :

Henry Robateau / Microscopist

Date: 03/04/2021

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NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
Phone: (219) 531-0531
Fax: (219) 464-9166

Reference:	21.1359/030321.1	Date Received:	03/03/2021
Location:	Hammond High School	Date Analyzed:	03/04/2021
Batch No.:	351273	Date Reported:	03/04/2021
Customer No.:	118	Turn Around Time:	1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351273049	93-A	ND	Binder 99-100%
351273050	94-A	ND	Binder 99-100%
351273051	94-B	ND	Binder 99-100%
351273052	95-A	ND	Binder 99-100%
351273053	95-B	ND	Binder 99-100%
351273054	96-A	ND	Binder 99-100%
351273055	97-A	ND	Binder 99-100%
351273056	97-B	ND	Binder 99-100%
351273057	98-A	ND	Binder 99-100%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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Analyzed by Name: Henry Robateau / Microscopist

Date: 03/04/2021

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	J. Blosky
P.O. Number:	030321.1

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☑ 2 Days: ☐ 3 Days: ☐ 5 Days: ☐

Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 351273

Samples Acceptable: Yes: ☒ No: ☐

Checked by (Initial/Date): 3/4/21

QC by (Initial/Date): 3/4/21

Reported By (Initial/Date/Time/Method):

Comments:

Relinquished by:	Date/Time: 3/3/21/12:24
Received by:	Date/Time: 3/3/21 1220
Relinquished by:	Date/Time:
Received by:	Date/Time:
Relinquished by:	Date/Time:
Received by:	Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other						
40-A	3/2/21								✓															
40-B									✓															
40-C									✓															
84-A									✓															
84-B									✓															
84-C									✓															
85-A									✓															
85-B									✓															
85-C									✓															
85-D									✓															
85-E									✓															
85-F									✓															
85-G									✓															

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1354
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	J. Blosky
P.O. Number:	0303 21.1

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☑ 2 Days: ☐ 3 Days: ☐ 5 Days: ☐

Date Due: Time Due: Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 351273

Samples Acceptable: Yes: ☑ No: ☐

Checked by (Initial/Date): 3/4/21

QC by (Initial/Date):

Reported By (Initial/Date/Time/Method):

Comments:

Relinquished by:	Date/Time: 3/3/21 12:20pm
Received by:	Date/Time: 3/3/21 1220
Relinquished by:	Date/Time:
Received by:	Date/Time:
Relinquished by:	Date/Time:
Received by:	Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Ash	TEM Microvac Ash	TEM Water		Other:							
86-A	3/2/21								✓																
86-B									✓																
86-C									✓																
86-D									✓																
86-E									✓																
86-F									✓																
86-G									✓																
87-A									✓																
87-B									✓																
87-C									✓																
88-A									✓																
88-B									✓																
88-C									✓																

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD **Page : 3 of 4**

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	J. Blosky
P.O. Number:	030321.1

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☑ 2 Days: ☐ 3 Days: ☐ 5 Days: ☐
Date Due: Time Due: Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:
Batch No.: 351273
Samples Acceptable: Yes: ☒ No: ☐
Checked by (Initial/Date): 3/4/21
QC by (Initial/Date):
Reported By (Initial/Date/Time/Method):
Comments:

Relinquished by: Date/Time: 3/3/21 R.Ryan
Received by: Date/Time: 3/3/21 1220
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received by: Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Ash	TEM Microvac Ash	TEM Water		Other:							
89-A	3/2/21								✓																
90-A									✓																
91-A									✓																
92-A									✓																
92-B									✓																
93-A									✓																
94-A									✓																
94-B									✓																
95-A									✓																
95-B									✓																
96-A									✓																
97-A									✓																
97-B	↓								✓																

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	J. Blosky
P.O. Number:	030321.1

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☑ 2 Days: ☐ 3 Days: ☐ 5 Days: ☐

Date Due: Time Due: Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 351273

Samples Acceptable: Yes: ☒ No: ☐

Checked by (Initial/Date): 3/4/21

QC by (Initial/Date):

Reported By (Initial/Date/Time/Method):

Comments:

Relinquished by:	Date/Time: 3/3/21 12:20pm
Received by:	Date/Time: 3/3/21 1220
Relinquished by:	Date/Time:
Received by:	Date/Time:
Relinquished by:	Date/Time:
Received by:	Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other:						
98-A	3/2/21								✓															

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

NVLAP Lab Code 101202-0

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383
Phone: (219) 531-0531
Fax: (219) 464-9166

Reference:	030421.1 21.1359	Date Received:	03/05/2021
Location:	Hammond H.S. Hammond, IN	Date Analyzed:	03/05/2021
Batch No.:	351323	Date Reported:	03/05/2021
Customer No.:	118	Turn Around Time:	8 Hour

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
351323001	102-A	ND	Binder 90-95% Other 5-10%
351323002	102-A-Leveler	ND	Binder 90-95% Other 5-10%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

Analyzed by Name : Henry Robateau / Microscopist Date: 03/05/2021

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Page : 1 of 1

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1359
Project Name:	Hammond H.S.
Project Location:	Hammond, IN
Project Manager:	J. Blasky
P.O. Number:	030421.1

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☑ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☐ 5 Days: ☐

Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 351323

Samples Acceptable: Yes: ☑ No: ☐

Checked by (Initial/Date): 3/4/21

QC by (Initial/Date): 3/5/21

Reported By (Initial/Date/Time/Method):

Comments:

Relinquished by:	Date/Time: 3/4/21 4:30pm
Received by: UPS	Date/Time: 3/5/21 12:20
Relinquished by:	Date/Time:
Received by:	Date/Time:
Relinquished by:	Date/Time:
Received by:	Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other:							
102-A	3/4/21								✓																

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

Appendix D

Lead-Based Paint XRF Results

XRF Results
Hammond High School
5926 Calumet Avenue
Hammond, IN 46320

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18154	**1.1**	**Positive**	3/2/2021	**13:48:15**		**Calibration**					**1.0 Front**
18155	**1**	**Positive**	3/2/2021	**13:48:36**		**Calibration**					**1.0 Front**
18156	**1.1**	**Positive**	3/2/2021	**16:48:57**		**Calibration**					**1.0 Front**
18157	0	Negative	3/2/2021	13:51:50	Gym	Wall	C	Cinder Block	Intact	White	
18158	0	Negative	3/2/2021	13:52:06	Gym	Wall	B	Cinder Block	Intact	White	
18159	-0.1	Negative	3/2/2021	13:53:03	Gym	Wall	A	Cinder Block	Intact	White	
18160	0	Negative	3/2/2021	13:53:47	Gym	Wall	D	Cinder Block	Intact	White	
18161	0.1	Negative	3/2/2021	13:54:27	Dressing Room	Wall	A	Cinder Block	Intact	White	
18162	0.2	Negative	3/2/2021	13:54:41	Dressing Room	Wall	B	Cinder Block	Intact	White	
18163	0.1	Negative	3/2/2021	13:55:04	Dressing Room	Wall	C	Cinder Block	Intact	White	
18164	-0.1	Negative	3/2/2021	13:55:17	Dressing Room	Wall	C	Cinder Block	Intact	White	
18165	0	Negative	3/2/2021	13:56:25	Showers	Wall	A	Cinder Block	Intact	White	
18166	-0.1	Negative	3/2/2021	13:56:43	Showers	Wall	B	Cinder Block	Intact	White	
18167	0.1	Negative	3/2/2021	13:57:14	Showers	Wall	C	Cinder Block	Intact	White	
18168	0	Negative	3/2/2021	13:57:41	Showers	Wall	D	Cinder Block	Intact	White	
18169	0	Negative	3/2/2021	13:59:59	Athletic Office	Wall	A	Cinder Block	Intact	White	
18170	-0.1	Negative	3/2/2021	14:00:13	Athletic Office	Wall	B	Cinder Block	Intact	White	
18171	0	Negative	3/2/2021	14:00:26	Athletic Office	Wall	C	Cinder Block	Intact	White	
18172	-0.2	Negative	3/2/2021	14:00:41	Athletic Office	Wall	D	Cinder Block	Intact	White	
18173	-0.1	Negative	3/2/2021	14:01:22	Shower Room	Wall	D	Cinder Block	Intact	White	
18174	-0.1	Negative	3/2/2021	14:01:49	Shower Room	Wall	B	Cinder Block	Intact	Orange	
18175	0.1	Negative	3/2/2021	14:03:01	Gym Balcony	Wall	C	Cinder Block	Intact	White	
18176	0	Negative	3/2/2021	14:03:46	Gym Balcony	Wall	B	Cinder Block	Intact	White	
18177	-0.1	Negative	3/2/2021	14:04:44	Gym Balcony	Wall	A	Cinder Block	Intact	White	
18178	-0.2	Negative	3/2/2021	15:13:12	Stage - North Storage	Wall	C	Cinder Block	Intact	White	
18179	-0.1	Negative	3/2/2021	15:14:32	Stage - South Storage	Wall	C	Brick	Intact	White	
18180	0	Negative	3/2/2021	15:14:49	Stage - South Storage	Wall	C	Brick	Intact	White	
18181	0.1	Negative	3/2/2021	15:15:47	Stage - South Storage	Wall	C	Brick	Intact	White	
18182	0	Negative	3/2/2021	15:25:39	2nd Floor Elevator Lobby	Wall	C	Brick	Intact	White	
18183	0	Negative	3/2/2021	15:25:53	2nd Floor Elevator Lobby	Wall	A	Brick	Intact	White	

Make: Viken Detection
Model: Pb200i
Source: ^{57}Co
Serial Number: 2510

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

XRF Results
Hammond High School
5926 Calumet Avenue
Hammond, IN 46320

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18184	-0.1	Negative	3/2/2021	15:28:13	3rd Floor Elevator Lobby	Wall	A	Brick	Intact	White	
18185	0	Negative	3/2/2021	15:28:27	3rd Floor Elevator Lobby	Wall	C	Brick	Intact	White	
18186	0.1	Negative	3/2/2021	15:29:56	1st Floor Elevator Lobby	Wall	C	Brick	Intact	White	
18187	-0.1	Negative	3/2/2021	15:30:09	1st Floor Elevator Lobby	Wall	A	Brick	Intact	White	
18188	-0.1	Negative	3/2/2021	15:30:46	Mechanical Room	Wall	A	Cinder Block	Intact	White	
18189	0.3	Negative	3/2/2021	15:31:16	Mechanical Room	Wall	C	Brick	Intact	White	
18190	0	Negative	3/2/2021	15:31:55	Band Hallway	Wall	C	Brick	Intact	Lt. Green	
18191	**1.1**	**Positive**	**3/2/2021**	**15:32:21**		**Calibration**					**1.0 Front**
18192	**1**	**Positive**	**3/2/2021**	**15:32:49**		**Calibration**					**1.0 Front**
18193	**1.1**	**Positive**	**3/2/2021**	**15:33:10**		**Calibration**					**1.0 Front**

Make: Viken Detection
Model: Pb200i
Source: ^{57}Co
Serial Number: 2510

Amereco Engineering
54 Michigan Avenue
Valparaiso, IN 46383

Appendix E

Mercury Flooring Analytical Results

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

March 01, 2021

Amereco Inc.
54 Michigan Avenue
Valparaiso, IN 46383
Telephone: (219) 531-0531
Fax: (219) 464-9166

Analytical Report for STAT Work Order: 21020499 Revision 0

RE: 21.1359, Hammod High School, Hammond, IN

Dear Amereco Inc.:

STAT Analysis received 2 samples for the referenced project on 2/23/2021 12:19:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Justice Kwateng
Project Manager

STAT Analysis Corporation

Date: March 01, 2021

Client: Amereco Inc.
Project: 21.1359, Hammod High School, Hammond, IN
Work Order: 21020499 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
21020499-001A	HG - A			2/23/2021
21020499-002A	BHG - A			2/23/2021

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: March 01, 2021
Date Printed: March 01, 2021

ANALYTICAL RESULTS

Client: Amereco Inc.
Project: 21.1359, Hammod High School, Hammond, IN **Work Order:** 21020499 Revision 0

Lab ID: 21020499-001 **Collection Date:**
Client Sample ID HG - A **Matrix:** Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471B**			Prep Date: **2/24/2021**		Analyst: **LB**
Mercury	280	18		mg/Kg	1000	2/25/2021

Lab ID: 21020499-002 **Collection Date:**
Client Sample ID BHG - A **Matrix:** Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Mercury	**SW7471B**			Prep Date: **2/24/2021**		Analyst: **LB**
Mercury	280	17		mg/Kg	1000	2/25/2021

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD Page : 6 of 7

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21-1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	D. Unge
P.O. Number:	022221.2

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☑ 5 Days: ☐
Date Due: Time Due: Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:
Batch No.: 21020499
Samples Acceptable: Yes: ☐ No: ☐
Checked by (Initial/Date):
QC by (Initial/Date):
Reported By (Initial/Date/Time/Method):
Comments:

Relinquished by: Date/Time: 2/22/21 14:30
Received by: 1Z0Y49F6039 Date/Time: 8615656
Relinquished by: UPS Date/Time:
Received by: Date/Time: 2/23/21 12:19
Relinquished by: Date/Time:
Received by: Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water		Other: Mercury
83-A									✓									
B-A									✓									
EA (Mastic Only)									✓									
E-B (Mastic Only)									✓									
E-C (Mastic Only)									✓									
G-A									✓									
N-A									✓									
U-A									✓									
U-B									✓									
U-C									✓									
V-A									✓									
HG-A (5DayTAT)							001										✓	
BHG-A (5DayTAT)							002										✓	

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.
Please analyze both Mercury samples on 5-Day TAT.

STAT Analysis Corporation

Sample Receipt Checklist

Client Name AMERECO

Date and Time Received: 2/23/2021 12:19:00 PM

Work Order Number 21020499

Received by: EAA

Checklist completed by: EL (Signature) 2/23/21 (Date)

Reviewed by: CE (Initials) 2/24/21 (Date)

Matrix:

Carrier name: Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☐	No ☑	Temperature Ambient °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?

Any No response must be detailed in the comments section below.

Comments: samples were received outside thermal preservation requirements for Hg in solid analysis.

Client / Person contacted: _____ Date contacted: _____ Contacted by: _____

Response: _____

CLIENT: Amereco Inc.
Work Order: 21020499
Project: 21.1359, Hammod High School, Hammond, IN

ANALYTICAL QC SUMMARY REPORT
Metals
BatchID: 131684

PREP BATCH SUMMARY

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMBS1 2/24/21			0.35	0	0	30	85.714	2/24/2021	2/24/2021
HGLCSS1 2/24/21			0.35	0	0	30	85.714	2/24/2021	2/24/2021
21020490-001B	Soil		0.325	0	0	30	92.308	2/24/2021	2/24/2021
21020490-002B	Soil		0.333	0	0	30	90.090	2/24/2021	2/24/2021
21020490-003B	Soil		0.397	0	0	30	75.567	2/24/2021	2/24/2021
21020490-004B	Soil		0.342	0	0	30	87.719	2/24/2021	2/24/2021
21020490-005B	Soil		0.321	0	0	30	93.458	2/24/2021	2/24/2021
21020490-006B	Soil		0.335	0	0	30	89.552	2/24/2021	2/24/2021
21020490-007B	Soil		0.339	0	0	30	88.496	2/24/2021	2/24/2021
21020490-008B	Soil		0.342	0	0	30	87.719	2/24/2021	2/24/2021
21020490-009B	Soil		0.356	0	0	30	84.270	2/24/2021	2/24/2021
21020490-010B	Soil		0.344	0	0	30	87.209	2/24/2021	2/24/2021
21020490-011B	Soil		0.387	0	0	30	77.519	2/24/2021	2/24/2021
21020490-012B	Soil		0.319	0	0	30	94.044	2/24/2021	2/24/2021
21020490-013B	Soil		0.354	0	0	30	84.746	2/24/2021	2/24/2021
21020490-014B	Soil		0.331	0	0	30	90.634	2/24/2021	2/24/2021
21020490-015B	Soil		0.377	0	0	30	79.576	2/24/2021	2/24/2021
21020490-016B	Soil		0.388	0	0	30	77.320	2/24/2021	2/24/2021
21020499-001A	Solid		0.333	0	0	30	90.090	2/24/2021	2/24/2021
21020499-002A	Solid		0.346	0	0	30	86.705	2/24/2021	2/24/2021
21020517-001A	Product		0.399	0	0	30	75.188	2/24/2021	2/24/2021
21020529-001B	Soil		0.366	0	0	30	81.967	2/24/2021	2/24/2021
21020529-001BMS	Soil		0.366	0	0	30	81.967	2/24/2021	2/24/2021
21020529-001BMSD	Soil		0.373	0	0	30	80.429	2/24/2021	2/24/2021

QC SUMMARY

Sample ID:	Customer ID:	SampType:	Units:	TestNo:	Prep Date:	Analysis Date:	Run ID:	SeqNo:
HGMBS1 2/24/21	**ZZZZZ**	**MBLK**	**mg/Kg**	**SW7471B**	**2/24/2021**	**2/24/2021**	**CETAC 2_210224C**	**5007082**

Analyte	Result	PQL	SPK value	SPK Ref Val	% REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.001457	0.017									J

Sample ID:	Customer ID:	SampType:	Units:	TestNo:	Prep Date:	Analysis Date:	Run ID:	SeqNo:
HGLCSS1 2/24/21	**ZZZZZ**	**LCS**	**mg/Kg**	**SW7471B**	**2/24/2021**	**2/24/2021**	**CETAC 2_210224C**	**5007083**

Analyte	Result	PQL	SPK value	SPK Ref Val	% REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.2263	0.017	0.2143	0.001457	105	80	120	0	0		

Sample ID:	Customer ID:	SampType:	Units:	TestNo:	Prep Date:	Analysis Date:	Run ID:	SeqNo:
21020529-001BMS	**ZZZZZ**	**MS**	**mg/Kg-dry**	**SW7471B**	**2/24/2021**	**2/25/2021**	**CETAC 2_210225A**	**5007189**

Analyte	Result	PQL	SPK value	SPK Ref Val	% REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.9567	0.048	0.3005	0.7283	76	75	125	0	0		

Sample ID:	Customer ID:	SampType:	Units:	TestNo:	Prep Date:	Analysis Date:	Run ID:	SeqNo:
21020529-001BMSD	**ZZZZZ**	**MSD**	**mg/Kg-dry**	**SW7471B**	**2/24/2021**	**2/25/2021**	**CETAC 2_210225A**	**5007190**

Analyte	Result	PQL	SPK value	SPK Ref Val	% REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	1.066	0.047	0.2948	0.7283	115	75	125	0.9567	10.8	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

March 05, 2021

Amereco Inc.
54 Michigan Avenue
Valparaiso, IN 46383
Telephone: (219) 531-0531
Fax: (219) 464-9166

Analytical Report for STAT Work Order: 21030102 Revision 0

RE: 21.1359, Hammond High School, Hammond, IN

Dear Amereco Inc.:

STAT Analysis received 2 samples for the referenced project on 3/3/2021 12:20:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAP standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Justice Kwateng
Project Manager

STAT Analysis Corporation

Date: March 05, 2021

Client: Amereco Inc.
Project: 21.1359, Hammond High School, Hammond, IN
Work Order: 21030102 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
21030102-001A	M-01		3/2/2021	3/3/2021
21030102-002A	M-02		3/2/2021	3/3/2021

STAT Analysis Corporation

Date: *March 05, 2021*

CLIENT: Amereco Inc.
Project: 21.1359, Hammond High School, Hammond, IN
Work Order: 21030102 Revision 0

CASE NARRATIVE

Please refer to Analytical QC Summary Report for QC outliers.

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: March 05, 2021
Date Printed: March 05, 2021

ANALYTICAL RESULTS

Client: Amereco Inc.
Project: 21.1359, Hammond High School, Hammond, IN **Work Order:** 21030102 Revision 0

Lab ID: 21030102-001 **Collection Date:** 3/2/2021
Client Sample ID M-01 **Matrix:** Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	**SW1311/7470A**			Prep Date: **3/4/2021**		Analyst: **LB**
Mercury	2.6	0.20		mg/L	1000	3/4/2021

Lab ID: 21030102-002 **Collection Date:** 3/2/2021
Client Sample ID M-02 **Matrix:** Solid

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
TCLP Mercury	**SW1311/7470A**			Prep Date: **3/4/2021**		Analyst: **LB**
Mercury	3.3	0.20		mg/L	1000	3/4/2021

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Client:	Amereco Engineering
Street Address:	54 Michigan Avenue
City, State, Zip:	Valparaiso, IN 46383
Phone:	219-531-0531
Fax:	219-464-9166
e-mail/Alt. Fax:	labresults@amerecoeng.com
Project Number:	21.1359
Project Name:	Hammond High School
Project Location:	Hammond, IN
Project Manager:	J. Blosky
P.O. Number:	030321.2

Turn Around: Immediate: ☐ 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☑ 5 Days: ☐

Date Due: Time Due: Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 21030102

Samples Acceptable: Yes: ☐ No: ☐

Checked by (Initial/Date):

QC by (Initial/Date):

Reported By (Initial/Date/Time/Method):

Comments:

Relinquished by:	Date/Time: 3/3/21 1:12:20p
Received by:	Date/Time: 3/3/21 1220
Relinquished by:	Date/Time:
Received by:	Date/Time:
Relinquished by:	Date/Time:
Received by:	Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Ash	TEM Microvac Ash	TEM Water		Other:			TCLP Mercury			
M-01	3/2/21						001														✓			
M-02	3/2/21						002														✓			

Comments: NOTE: Stop when a positive result is reached for each Homogeneous Area. Only analyze Lab and Field Blanks if necessary. Analyze all QAQC Samples.

STAT Analysis Corporation

Sample Receipt Checklist

Client Name **AMERECO**

Work Order Number **21030102**

Date and Time Received: **3/3/2021 12:20:00 PM**

Received by: JOK

Checklist completed by: Signature 3/3/21 Date

Reviewed by: CE Initials 3/4/21 Date

Matrix: Carrier name Client Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 3.1 °C	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐	
Water - Samples pH checked?	Yes ☐	No ☐	Checked by:	
Water - Samples properly preserved?	Yes ☐	No ☐	pH Adjusted?	

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: Date contacted: Contacted by:

Response:

CLIENT: Amereco Inc.
Work Order: 21030102
Project: 21.1359, Hammond High School, Hammond, IN

ANALYTICAL QC SUMMARY REPORT
Metals
BatchID: 131858

PREP BATCH SUMMARY

Sample ID	Matrix	pH	SampAmt	Sol Added	Sol Recov	Fin Vol	factor	PrepStart	PrepEnd
HGMBW2 3/4/21	W		30	0	0	30	1.000	3/4/2021	3/4/2021
HGLCSW2 3/4/21	W		30	0	0	30	1.000	3/4/2021	3/4/2021
HGMBTA2 3/3/21	W		30	0	0	30	1.000	3/4/2021	3/4/2021
21030102-001A	Solid		30	0	0	30	1.000	3/4/2021	3/4/2021
21030102-002A	Solid		30	0	0	30	1.000	3/4/2021	3/4/2021
21030107-001B	Soil		30	0	0	30	1.000	3/4/2021	3/4/2021
21030107-002B	Soil		30	0	0	30	1.000	3/4/2021	3/4/2021
21030107-003B	Soil		30	0	0	30	1.000	3/4/2021	3/4/2021
21030119-001A	Solid		30	0	0	30	1.000	3/4/2021	3/4/2021
21030107-003BMS	Soil		30	0	0	30	1.000	3/4/2021	3/4/2021
21030107-003BMSD	Soil		30	0	0	30	1.000	3/4/2021	3/4/2021

QC SUMMARY

Sample ID:	Customer ID:	SampType:	Units:	TestNo:	Prep Date:	Analysis Date:	Run ID:	SeqNo:
HGMBTA2 3/3/21	**ZZZZZ**	**MBLK**	**mg/L**	**SW1311/7470A**	**3/4/2021**	**3/4/2021**	**CETAC 2_210304C**	**5013872**

Analyte	Result	PQL	SPK value	SPK Ref Val	% REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.000044	0.00020									J

Sample ID:	Customer ID:	SampType:	Units:	TestNo:	Prep Date:	Analysis Date:	Run ID:	SeqNo:
21030107-003BMS	**ZZZZZ**	**MS**	**mg/L**	**SW1311/7470A**	**3/4/2021**	**3/4/2021**	**CETAC 2_210304C**	**5013878**

Analyte	Result	PQL	SPK value	SPK Ref Val	% REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.0018	0.00020	0.0025	0.000052	69.9	75	125	0	0		S

Sample ID:	Customer ID:	SampType:	Units:	TestNo:	Prep Date:	Analysis Date:	Run ID:	SeqNo:
21030107-003BMSD	**ZZZZZ**	**MSD**	**mg/L**	**SW1311/7470A**	**3/4/2021**	**3/4/2021**	**CETAC 2_210304C**	**5013879**

Analyte	Result	PQL	SPK value	SPK Ref Val	% REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.00175	0.00020	0.0025	0.000052	67.9	75	125	0.0018	2.82	20	S

Sample ID:	Customer ID:	SampType:	Units:	TestNo:	Prep Date:	Analysis Date:	Run ID:	SeqNo:
HGMBW2 3/4/21	**ZZZZZ**	**MBLK**	**mg/L**	**SW7470A**	**3/4/2021**	**3/4/2021**	**CETAC 2_210304C**	**5013870**

Analyte	Result	PQL	SPK value	SPK Ref Val	% REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	ND	0.00020									

Sample ID:	Customer ID:	SampType:	Units:	TestNo:	Prep Date:	Analysis Date:	Run ID:	SeqNo:
HGLCSW2 3/4/21	**ZZZZZ**	**LCS**	**mg/L**	**SW7470A**	**3/4/2021**	**3/4/2021**	**CETAC 2_210304C**	**5013871**

Analyte	Result	PQL	SPK value	SPK Ref Val	% REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.00221	0.00020	0.0025	0	88.4	85	115	0	0		

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
* - Non Accredited Parameter
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
H/HT - Holding Time Exceeded
B - Analyte detected in the associated Method Blank
E - Value above quantitation range

Appendix F

Karbaloy Fire Suppression SDS Sheets

SAFETY DATA SHEET
Karbaloy
(Fire Extinguishing Agent Pressurized and Non-pressurized)

1. IDENTIFICATION

Product Name	Karbaloy (Fire Extinguishing Agent, Pressurized and Non-pressurized)
Other Names	Potassium Carbonate, Range Guard System Wet Chemical
Recommended use of the chemical and restrictions on use	
Identified uses	Fire Extinguishing Agent
Restrictions on use	Do not use on electrically energized equipment. Consult applicable fire protection codes.
Company Identification	Badger Fire Protection 8767 Seminole Trail, Suite 202 Ruckersville, VA 22968 USA
Customer Information Number	(434)-964-3200
Emergency Telephone Number	
CHEMTREC Number	(800) 424-9300 (703) 527-3887 (International)
Issue Date	November 23, 2016
Supersedes Date	October 1, 2015

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200)and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION

This SDS covers the product listed above as sold in pressurized and non-pressurized containers. GHS classifications for both forms are listed below.

GHS Classification – Pressurized

Hazard Classification
Serious eye damage/eye irritation: Category 2A
Specific Target Organ Toxicity (STOT) – single exposure: Category 3
Gas under pressure – Compressed gas

Label Elements
Hazard Symbols


Signal Word: Warning

Hazard Statements
Causes serious eye irritation.
May cause respiratory irritation.
Contents under pressure; may explode if heated.

2. HAZARD IDENTIFICATION

Precautionary Statements
Prevention
Wash hands thoroughly after handling.
Wear eye protection/face protection.
Avoid breathing mists or spray.
Use only outdoors or in a well-ventilated area.
Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.
If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.
Call a poison center or doctor if you feel unwell.
Storage
Store locked up.
Protect from sunlight and store in well-ventilated place.
Keep container tightly closed.
Disposal
Dispose of contents/container in accordance with local regulation.

GHS Classification: Non - pressurized

Hazard Classification
Serious eye damage/eye irritation: Category 2A
Specific Target Organ Toxicity (STOT) – single exposure: Category 3

Label Elements
Hazard Symbols

Signal Word: Warning

Hazard Statements
Causes serious eye irritation.
May cause respiratory irritation.

Precautionary Statements
Prevention
Wash hands thoroughly after handling.
Wear eye protection/face protection.
Avoid breathing mists or spray.
Use only outdoors or in a well-ventilated area.

2. HAZARD IDENTIFICATION

Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.
If inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.
Call a poison center or doctor if you feel unwell.
Storage
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Disposal
Dispose of contents/container in accordance with local regulation.

Other Hazards
Possible electrocution hazard if used on electrically energized equipment.

Specific Concentration Limits
The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	0%
Acute dermal toxicity	0%
Acute inhalation toxicity	0%
Acute aquatic toxicity	0%

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration
Water	7732-18-5	50 – 60%
Potassium Carbonate	584-08-7	40 – 50%

Note: Pressurized product uses nitrogen as the expellant.

4. FIRST- AID MEASURES

Description of necessary first-aid measures
Eyes
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.
Skin
Wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.
Ingestion
Dilute by drinking large quantities of water and obtain medical attention.
Inhalation
Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

4. FIRST- AID MEASURES

Most important symptoms/effects, acute and delayed
Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Notes to Physicians
Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Suitable Extinguishing Media
This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a fire. Use extinguishing agent appropriate to other materials involved. Keep pressurized containers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

Specific hazards arising from the chemical
Pressurized containers may explode in heat of fire.

Special Protective Actions for Fire-Fighters
Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Wear appropriate protective clothing. Prevent skin and eye contact. Remove leaking container to a safe place. Ventilate the area.

Environmental Precautions
Prevent large quantities of the material from entering drains or watercourses.

Methods and materials for containment and cleaning up
Contain and absorb using appropriate inert material and transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Wear appropriate protective clothing. Prevent skin and eye contact.

Conditions for safe storage
Pressurized containers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or pressurized containers. Do not drop pressurized containers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the pressurized or plastic container. Store pressurized and plastic containers away from high heat sources. Storage area should be:
- cool - dry - well ventilated - under cover - out of direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure limits are listed below, if they exist.

Potassium Carbonate
None assigned.

Appropriate engineering controls
Use with adequate ventilation. There should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.

Individual protection measures
Respiratory Protection
Respiratory protection not normally required. In oxygen deficient atmospheres, use a self contained breathing apparatus, as an air purifying respirator will not provide protection.
Skin Protection
Gloves
Eye/Face Protection
Chemical goggles or safety glasses with side shields.
Body Protection
Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Agent - Karboloy

Appearance	
Physical State	Liquid
Color	Clear
Odor	Odorless
Odor Threshold	No data available
pH	>11
Specific Gravity	~1.4
Boiling Range/Point (°C/F)	108.9°C/228°F
Melting Point (°C/F)	No data available
Flash Point (PMCC) (°C/F)	Not flammable
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	No data available
Solubility in Water	Soluble
Vapor Density (Air = 1)	Not applicable
VOC (g/l)	None
VOC (%)	None
Partition coefficient (n-octanol/water)	No data available
Viscosity	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Upper explosive limit	No data available
Lower explosive limit	No data available
Flammability (solid, gas)	Not applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

Expellant - Nitrogen

Appearance	
Physical State	Compressed gas
Color	Colorless
Odor	None
Odor Threshold	No data available
pH	Not applicable
Specific Gravity	0.075 lb/ft^3 @70^{o}F as vapor
Boiling Range/Point (°C/F)	-196^{o}C/-321 ^{o}F
Melting Point (°C/F)	No data available
Flash Point (°C/F)	Not flammable
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	No data available
Solubility in Water	No data available
Vapor Density (Air = 1)	Not applicable
VOC (g/l)	None
VOC (%)	None
Partition coefficient (n-octanol/water)	No data available
Viscosity	Not applicable
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Upper explosive limit	Not explosive
Lower explosive limit	Not explosive
Flammability (solid, gas)	Not flammable

10. STABILITY AND REACTIVITY

Reactivity
Pressurized containers may rupture or explode if exposed to heat.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to Avoid
Exposure to direct sunlight - contact with incompatible materials

Incompatible Materials
Acids - ammonium compounds - metals - water reactive materials

Hazardous Decomposition Products
Oxides of carbon

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Potassium Carbonate
Oral LD50 (Rat) >2000 mg/kg
Dermal LD50 (Rabbit) >2000mg/kg
Inhalation LC50 (Rat) >4.96 mg/l
Nitrogen
Simple asphyxiant

Specific Target Organ Toxicity (STOT) – single exposure
Potassium Carbonate: Inhalation can cause respiratory irritation.
Nitrogen: Exposure to nitrogen gas at high concentrations can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness or asphyxiation.

Specific Target Organ Toxicity (STOT) – repeat exposure
Potassium Carbonate: No relevant studies identified.

Serious Eye damage/Irritation
Potassium Carbonate: Irritating to eyes in animal studies.

Skin Corrosion/Irritation
Karbaloy: Slightly irritating (Primary Dermal Irritation Study)

Respiratory or Skin Sensitization
Available data indicates this product is not expected to cause skin sensitization.

Carcinogenicity
Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity
Available data indicates this product is not expected to be mutagenic.

Reproductive Toxicity
Potassium Carbonate: No relevant studies identified.

Aspiration Hazard
Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Potassium Carbonate
LC50 Bluegill sunfish 230mg/l 96h
EC50 Daphnia pulex 200mg/l 48h

Mobility in soil
No relevant studies identified.

12. ECOLOGICAL INFORMATION

Persistence/Degradability
No relevant studies identified.

Bioaccumulative Potential
No relevant studies identified.

Other adverse effects
No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose of container in accordance with all applicable local and national regulations. Do not cut, puncture or weld on or near to the pressurized container. If spilled, expellant will vaporize to the atmosphere.

14. TRANSPORT INFORMATION

Safety Data Sheet information is intended to address a specific material and not various forms or states of containment.

Special Precautions for Shipping:
Individuals must be certified as Hazardous Material Shipper for all transportation modes. Pressurized Fire Extinguishers are considered a hazardous material by the US Department of Transportation and Transport Canada.

DOT CFR 172.101 Data	Fire extinguishers, 2.2, UN1044
UN Proper Shipping Name	Fire extinguishers
UN Class	(2.2)
UN Number	UN1044
UN Packaging Group	Not applicable
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.
Classification for Water Transport IMDG	Consult current IMDG Regulations prior to shipping by water.

When shipping via ground, portable fire extinguishers pressurized to less than 241 psi and of less than 1100 cubic inches in size meet the requirements of “Limited Quantity” as referenced in 49 CFR 173.309 (2010). There is no limited quantity designation for fire extinguishers when shipped by air or water.

This section is believed to be accurate at the time of preparation. It is not intended to be a complete statement or summary of the applicable laws, rules, or hazardous material regulations, and is subject to change. Users have the responsibility to confirm compliance with all laws, rules, and hazardous material regulations in effect at the time of shipping.

15. REGULATORY INFORMATION

United States TSCA Inventory
This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory.

Canada DSL Inventory
All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt from listing.

SARA Title III Sect. 311/312 Categorization: Pressurized
Immediate (Acute) Health Hazard, Pressure hazard
SARA Title III Sect. 311/312 Categorization: Non-pressurized
Immediate (Acute) Health Hazard

SARA Title III Sect. 313
This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings
NFPA Code for Health - 2
NFPA Code for Flammability - 0
NFPA Code for Reactivity - 0
NFPA Code for Special Hazards - None

HMIS Ratings
HMIS Code for Health - 2
HMIS Code for Flammability - 0
HMIS Code for Physical Hazard - 0
HMIS Code for Personal Protection - See Section 8
*Chronic

Legend
ACGIH: American Conference of Governmental Industrial Hygienists
CAS#: Chemical Abstracts Service Number
EC50: Effect Concentration 50%
IARC: International Agency for Research on Cancer
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
N/A: Denotes no applicable information found or available
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TSCA: Toxic Substance Control Act

Revision Date: November 23, 2016
Replaces: October 1, 2015
Changes made: Update to company address.

16. OTHER INFORMATION

Information Source and References
This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

The information and recommendations presented in this SDS are based on sources believed to be accurate. Badger Fire Protection assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the material for their particular purposes. In particular, we make NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.

ADDENDUM NO. 1
MARCH 5, 2021

PREPARED BY SCHMIDT ASSOCIATES FOR:
HAMMOND ATHLETIC FIELDS & BUILDING DEMOLITION
HAMMOND, SCHOOL CITY OF

This Addendum consists of 4 Addendum pages and 4 attachment pages totaling 8 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PREVIOUS ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 02 - EXISTING CONDITIONS

A. **Section 024116 "STRUCTURE DEMOLITION"**

1. ADD Subparagraph 1.2 A. 5. as follows:
"5. Cleaning of salvaged limestone items."

2. ADD Paragraph 2.2 as follows:
"2.2 LIMESTONE CLEANING

A. Basis-of Design Product: Subject to compliance with requirements, provide products indicated or comparable product approved by Architect prior to bidding:

1. 942 Limestone and Marble Cleaner by Prosoco"

3. ADD Paragraph 3.2 F. as follows:

"F. Limestone cleaning: Comply with the following:
1. Clean all salvage stone items with Limestone cleaner in compliance with manufacturer's written instructions."

4. ADD Subparagraphs 3.5 C. 4, 5, and 6 as follows:
   "4. Class of 1924 plaque.
   5. Hammond High School commemorative plaque dated June 1986
   6. Hammond High School time Capsule located on top of Historic date stone"

2.2 DIVISION 26 – ELECTRICAL

A. **Section 260519 "LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES"**

1. DELETE ALL REFERENCES to ALUMINUM WIRING in its entirety in the specifications..

2.3 DIVISION 32 - EXTERIOR IMPROVEMENTS

A. **Section 321823.99 "SYNTHETIC TURF PLAYING SURFACE"**

1. ADD Subparagraphs 2.1.A.6 and 2.1.A.7 as follows:

   "6. Midwest Sport and Turf Systems, LLC.

   7. Hellas Construction, Inc."

2. ADD Subparagraph 2.1.B.5 as follows:

   "5. Hellas Construction, Inc."

PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain un-changed.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

DRAWING NO.	INDICATE ACTION: REPLACE (R), ADD (A), DELETE (D)
C-SERIES DRAWINGS	
CU103.3	DELETE AND REPLACE
A-SERIES DRAWINGS	
AA-310	DELETE AND REPLACE
E-SERIES DRAWINGS	
ES101	DELETE AND REPLACE
ES102	DELETE AND REPLACE

3.2 A-SERIES DRAWINGS

A. **Drawing Number 4C on Sheet BA-310**

1. MODIFY Note referencing the roof sheathing as follows:

"061600 – PLYWOOD ROOF SHEATHING. SEE S-SERIES DWGS."

3.3 E-SERIES DRAWINGS

A. **Drawing Number ES102**

1. ADD Note to Replaced Drawing as follows:

"Future Ticket Booth/Shed located in North West of Football Field. Install flush mounted quazite box south of ticket booth. Install a 2" underground PVC schedule 40 conduit with pull string to Distribution Panelboard 12SDPA located in electrical room A101."

B. **Drawing Number ES103**

1. MODIFY Note # 36 as follows:

Replace JB3 connections with JB2 connection

2. Modify Note # 37 as follows:

Add JB3 connections to note.

C. **Drawing Number ES104**

1. ADD note to drawing as follows:

"Ticket Booth south of Softball Field- Panelboard 12C3, feeder F100"

D. **Drawing Number EF1A1**

1. MODIFY Drawing as follows:

a. Water Heater -2, Feeder size F125

b. CUH-4 and CHU-10, branch wiring size F30

E. **Drawing Number EF1B1**

1. MODIFY Drawing as follows:

a. Water Heater -1, Feeder size F90

b. Panelboard 12B1 – Circuit (33, 35, 37) circuit breaker size shall be 3P-90 amp.

c. Panelboard 12SDPB – Circuit (12, 14) circuit breaker size shall be 2P-30 amp.

F. **Drawing Number EF1D1**

1. ADD Note #5 as follows:

"5. USB charging GFCI receptacle mounted above dugout benches needs to be mounted horizontally 46" above finished grade."

G. **Drawing Number E-601**

1. MODIFY Enclosed Switches and Circuit Breakers Schedule as follows:

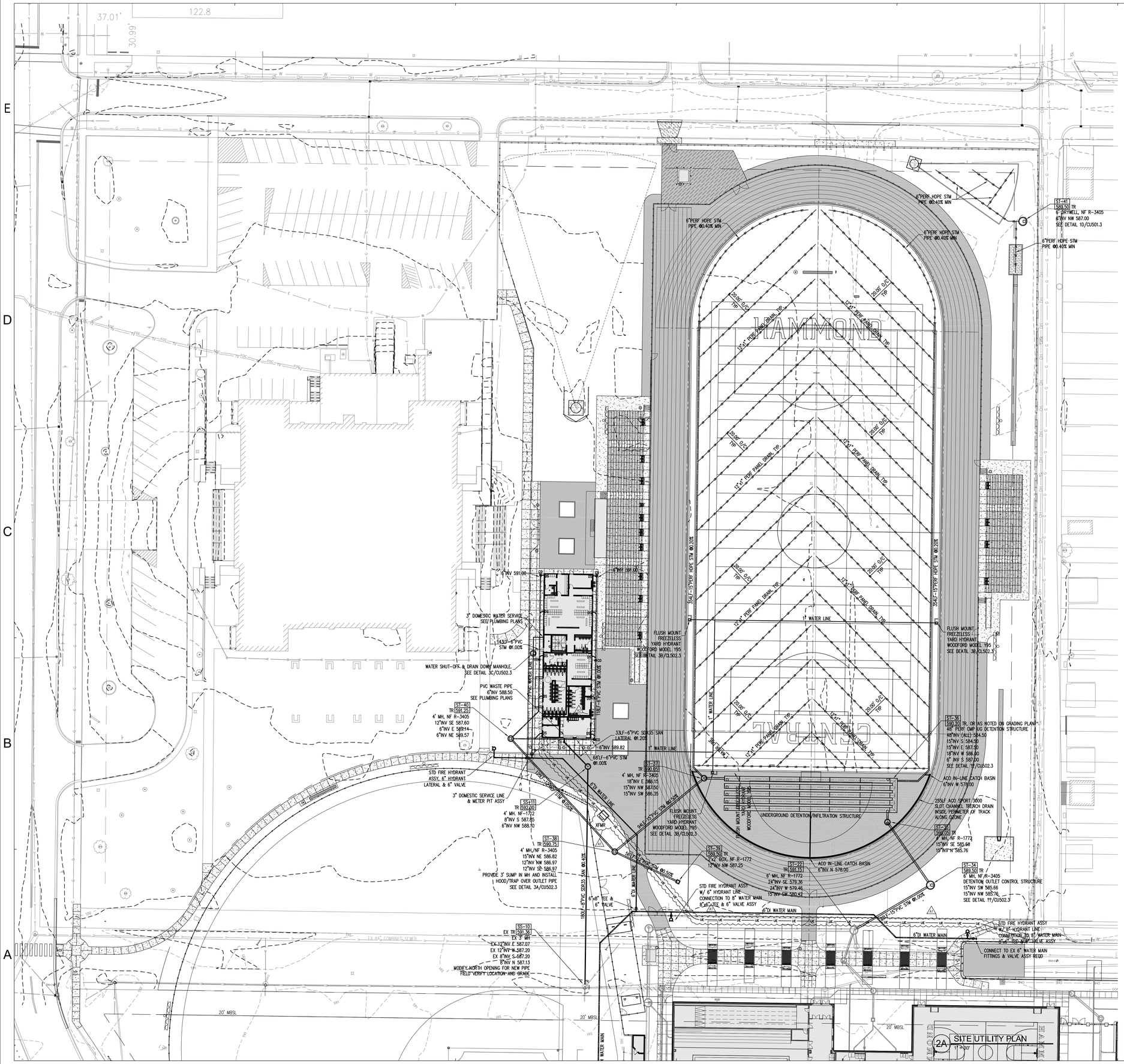
   Change Solid Neutral Column to read "YES" for DS-1 and DS-2 disconnect switches.

2. ADD Note to CENTRAL BATTERY EQUIPMET FOR EMERGENCY LIGHTING Schedule as follows:

   Acceptable Manufacturers:

   a. Dual-Lite (HUBBILL)- "LG-Series"
   b. Sure-Lites (COOPER)- "INV-Series"
   c. IOTA (Acuity)- "IIS-Series"

END OF ADDENDUM 1



UTILITY LEGEND

- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER
- PROPOSED STORM SEWER/DRAIN
- EXISTING STORM SEWER/DRAIN

DS	DOWNSPOUT
CO	CLEAN OUT
WV	WATER VALVE
PIV	POST INDICATOR VALVE
INV	PIPE INVERT
ALT	BID ALTERNATE
TYP	TYPICAL OF MULTIPLE LOCATIONS

ST-01 713.00 TR MH 4A INV W 709.79 — PROPOSED STORM MANHOLE SEE DETAIL 1A/CU501, SHEETS CR110-111

ST-02 713.00 TR MH 4A INV W 709.79 — PROPOSED STORM MANHOLE/INLET SEE DETAIL 1A/CU501, SHEETS CR110-111

ST-03 713.00 TR 2x2 BOX INV N 710.00 — PROPOSED CATCH BASIN SEE DETAIL 1C/CU501, SHEETS CR110-111

SS-2 729.25 TR MH 4A INV S 721.00 — PROPOSED SANITARY MANHOLE SEE SHEETS CR108-109.

GENERAL UTILITY NOTES

1. ALL SANITARY SEWER IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF HAMMOND SEWER DESIGN GUIDANCE MANUAL.
2. WHERE A NEW SANITARY SEWER IS CONNECTED TO AN EXISTING MANHOLE, THAT MANHOLE SHALL BE REHABILITATED TO CURRENT DESIGN STANDARDS OF CITY OR UTILITY HAVING JURISDICTION. THIS REQUIREMENT SHALL INCLUDE REHABILITATING FLOW CHANNEL/BENCHWALLS, SEALING CRACKS, CHIMNEY SEAL INSTALLATION, AS WELL AS OTHER MEASURES TO REDUCE THE AMOUNT OF INFILTRATION AND INFLOW TO REQUIRED LEVELS.
3. ALL LOCATIONS WHERE OTHER UTILITIES CROSS THE PROPOSED SANITARY SEWER WITH 18" VERTICAL CLEARANCE OR LESS REQUIRE THE INSTALLATION OF A CONCRETE CRADLE OR OTHER MEANS OF STRUCTURAL SUPPORT.
4. ALL SANITARY LATERALS AND FORCE MAINS REQUIRE THE INSTALLATION OF A TRACER WIRE ON TOP OF THE PIPE FROM THE SEWER MAIN TO THE CLEAN OUT.
5. ALL LIDS, CASTINGS, GRATES, BOXES, AND HATCHES ASSOCIATED WITH EXISTING UTILITY STRUCTURES THAT ARE NOT INDICATED FOR MODIFICATION OR REMOVAL SHALL BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.
6. COMPACTED GRANULAR BACKFILL IS REQUIRED FOR ALL UTILITY TRENCHES LOCATED UNDER PAVED AREAS. SEE SPECIFICATIONS.
7. ALL WATER SYSTEM AND FIRE PROTECTION SYSTEM IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF HAMMOND STANDARD SPECIFICATIONS AND DETAILS.
8. A MINIMUM OF 60" OF COVER SHALL BE PROVIDED OVER ALL EXTERIOR WATER PIPE, VALVES, AND FITTINGS.
9. PIPE LENGTHS INDICATED ON THE DRAWINGS ARE FOR HYDRAULIC CALCULATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR FURNISHING THE AMOUNT OF PIPE MATERIALS NECESSARY FOR A COMPLETE INSTALLATION.
10. ALL STORM INLET CASTINGS SHALL BE PERMANENTLY STAMPED WITH NOTATION "DUMP NO WASTE, DRAINS TO RIVER".
11. ALL STORM SEWERS, STRUCTURES, AND LATERALS WITHIN THE SUBJECT SITE SHALL BE PRIVATELY OWNED AND MAINTAINED.
12. NO SUBSTITUTION OF BMP HYDRODYNAMIC SEPARATOR STRUCTURE OR MANUFACTURER IS PERMITTED.
13. INSTALL 18"W x 18"L x 4"T CONCRETE COLLAR AROUND ALL CLEANOUTS, FIRE HYDRANTS, VALVE BOXES, INDICATOR POSTS, AND YARD HYDRANTS THAT ARE LOCATED IN YARD AREAS. COLLAR TO BE SET 1" ABOVE ADJACENT GROUND GRADES.
14. WHERE PROPOSED UNDERGROUND UTILITIES ARE IN CONFLICT WITH EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING THE EXISTING UTILITIES AROUND THE PROPOSED WORK.
15. WHERE CONNECTIONS ARE MADE TO EXISTING MANHOLES OR INLET STRUCTURES, THOSE STRUCTURES SHALL BE REHABILITATED OR REPLACED TO THOSE MINIMUM STANDARDS OUTLINED IN THE CITY OF HAMMOND STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION. THE REHABILITATION SHALL INCLUDE THE INSTALLATION OF BENCHWALLS, AS WELL AS PRESCRIBED MEASURES TO ELIMINATE THE POTENTIAL FOR MIGRATION OF BACKFILL MATERIALS INTO THE STORMWATER SYSTEM.
16. ALL PROPOSED STORM SEWER AND DRAINAGE APPURTENANCES SHALL BE IN CONFORMANCE WITH THE CITY OF HAMMOND STANDARD SPECIFICATIONS AND DETAILS, LATEST EDITION. DISCREPANCIES BETWEEN THE PLANS AND THE CITY STANDARD DETAILS SHALL NOT ALLEVIATE THE CONTRACTOR FROM ADHERING TO THE REQUIREMENTS AS SET FORTH IN THE CITY STANDARD DETAILS.
17. UTILITIES SERVING THE EXISTING HAMMOND HIGH SCHOOL BUILDING SHALL REMAIN IN SERVICE UNTIL THE NEW BUILDING IS OCCUPIED. EXISTING UTILITIES SHALL THEN BE SHUTOFF, PERMANENTLY CAPPED, AND EITHER REMOVED OR ABANDONED ON PLACE DEPENDING ON LOCATION. ALL UNDERGROUND UTILITIES ABANDONED IN PLACE SHALL BE FILLED WITH LEAN CONCRETE GROUT AND ACCURATELY INDICATED ON THE AS-BUILT DRAWINGS.
18. ANY 45-DEGREE DEFLECTION IN EXTERIOR SANITARY LATERALS WILL BE CONSTRUCTED USING TWO 22.5-DEGREE BENDS WITH A SHORT PIECE OF PIPE BETWEEN THE FITTINGS.

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Project No. 2017-105.ATF
Project Date 02.17.2021
Produced ATJ

ALLEN T. JACOBSEN REGISTERED NO. 10001136 STATE OF INDIANA PROFESSIONAL ENGINEER

#	Revision	Date
A1	ADDENDUM 1	03.05.2021

5926 Calumet Avenue
Hammond, IN 46320

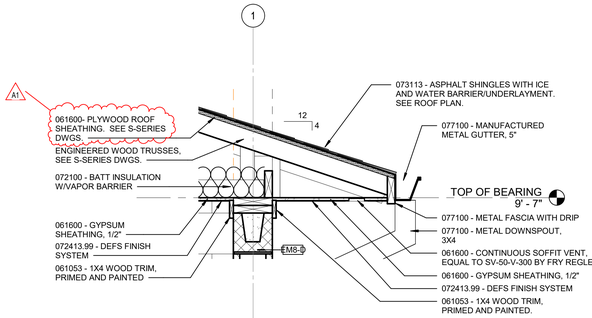
School City of Hammond

School City of Hammond

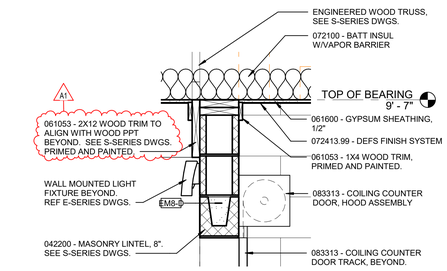
Hammond Central High School
BID PACKAGE 3

SITE UTILITY PLAN - NORTH

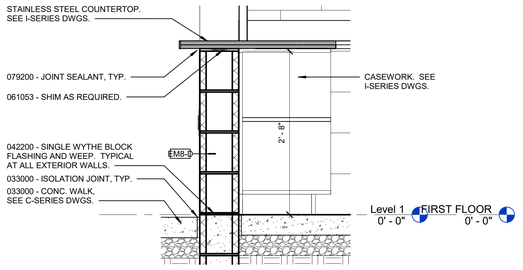
CU103.3



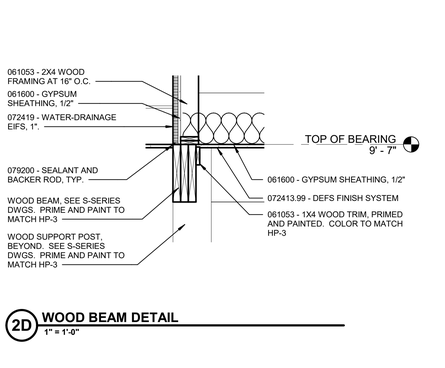
4C **ROOF EAVE DETAIL - TYPICAL**
1" = 1'-0"



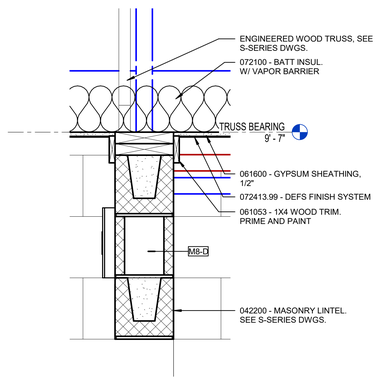
3D **COILING COUNTER DOOR HEAD DTL.**
1" = 1'-0"



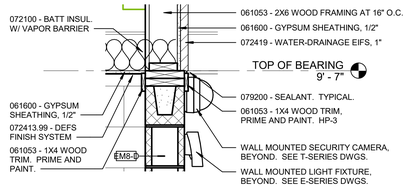
3C **WALL DETAIL AT CONCESSION COUNTERTOP**
1" = 1'-0"



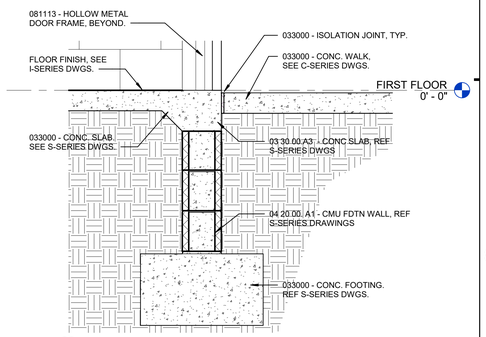
2D **WOOD BEAM DETAIL**
1" = 1'-0"



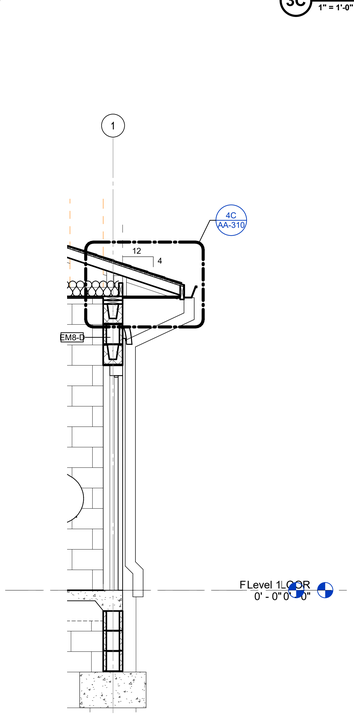
2C **WALL SECTION DETAIL**
1 1/2" = 1'-0"



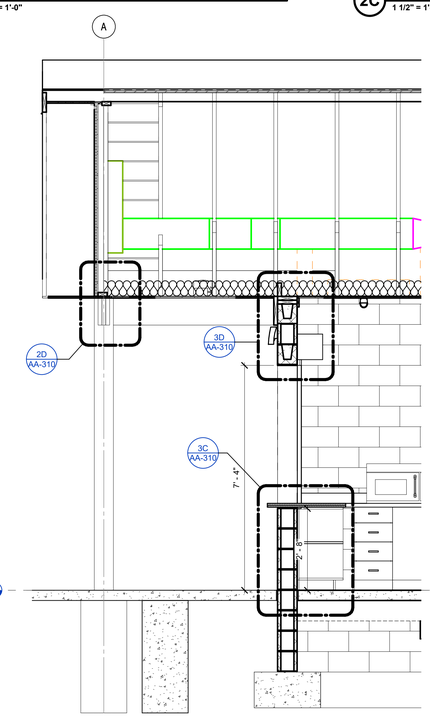
1D **WALL DETAIL AT GABLE END**
1" = 1'-0"



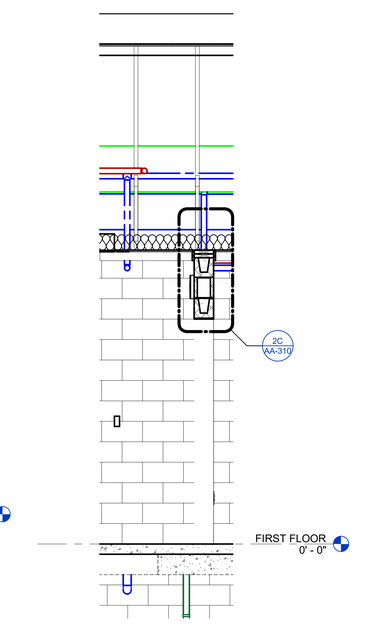
1C **FLOOR SLAB DETAIL AT DOOR**
1" = 1'-0"



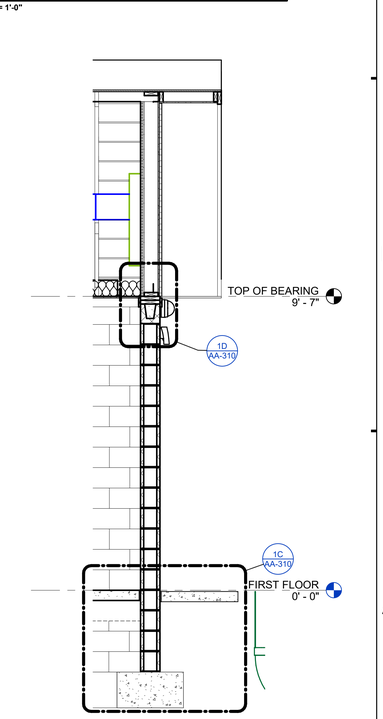
4A **Section 3 - Callout 1**
1/2" = 1'-0"



3A **Section 6 - Callout 1**
1/2" = 1'-0"



2A **Section 6 - Callout 3**
1/2" = 1'-0"



1A **Section 6 - Callout 2**
1/2" = 1'-0"

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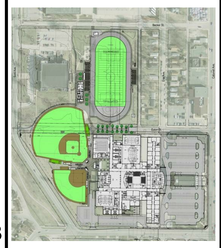
Project No. 2017-105.ATF
Project Date 02.17.2021
Produced Designer Author

SARAH KATHLEEN HEMPSTEAD REGISTERED NO. AR10400134 STATE OF INDIANA ARCHITECT

#	Revision	Date
A1	ADD. 1	3/5/2021

5926 Calumet Ave
Hammond, IN 46320



KEY PLAN

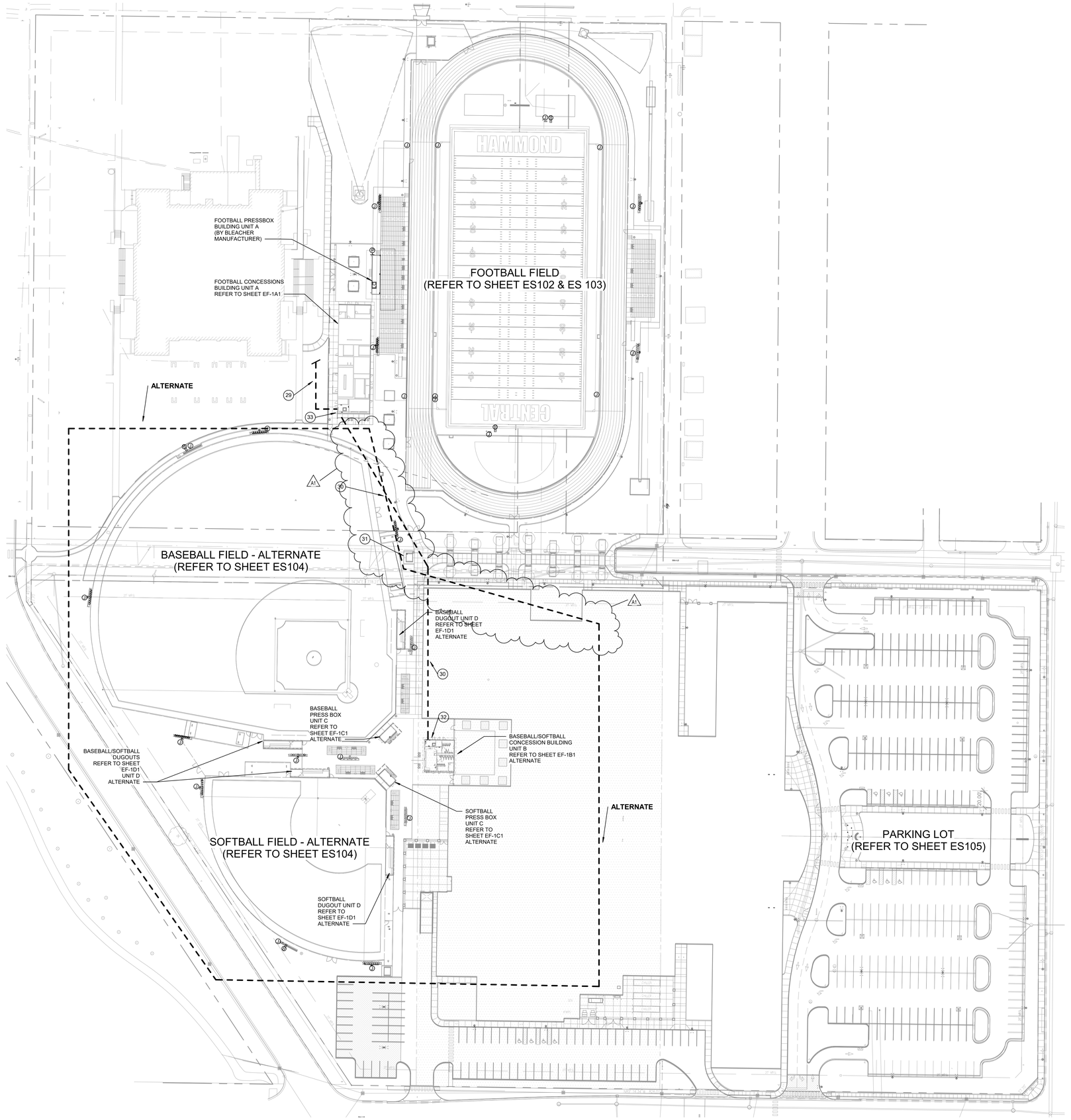
School City of Hammond

School City of Hammond

Hammond Central HS - BID PACKAGE 3

FOOTBALL BUILDING UNIT A - WALL SECTIONS

AA-310



2A **OVERALL SITE PLAN**
1" = 50'-0"

GENERAL SITE NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS AND REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC. INCLUDE ALL UTILITY FEES REQUIRED IN BID.

SITE PLAN NOTES

#	NOTES
1	EXISTING POLE MOUNT LIGHT FIXTURE TO REMAIN, PROTECT DURING CONSTRUCTION.
2	REFER TO DETAILS 1A/E-501 AND 4A-/E-501 FOR POLE BASE DETAILS (42").
3	REFER TO DETAILS 2A/E-501 AND 4A/E-501 FOR POLE BASE DETAILS (6").
4	CONTROL LIGHTING CIRCUIT THROUGH EXISTING LIGHTING CONTACTOR LC-D1 LOCATED IN ELEC RM CM101.
5	CONTROL LIGHTING CIRCUIT THROUGH EXISTING LIGHTING CONTACTOR LC-B1 LOCATED IN ELEC RM BM101.
6	NEW FLUSH-MOUNTED QUAZITE BOX.
7	PLAYCLOCK RECEPTACLE MOUNTED ON PLAYCLOCK POST. REFER TO E-502 FOR DETAIL.
8	FOOTBALL PLAYCLOCK. REFER TO E-502 FOR DETAIL.
9	(1) 2" CONDUIT WITH PULL STRING TO PRESS BOX.
10	CONTROL LIGHTING CIRCUIT THROUGH EXISTING LIGHTING CONTACTOR LC-F1 LOCATED IN MECH RM BM202.
11	ELECTRICAL ROOM BM101. EXISTING PANEL 14B1 AND EXISTING CONTACTOR LC-B1 LOCATED IN THIS ROOM.
12	ELECTRICAL ROOM CM101. EXISTING PANEL 12D1, EXISTING PANEL 14D1 AND EXISTING CONTACTOR LC-D1 LOCATED IN THIS ROOM.
13	APPROXIMATE LOCATION OF MECHANICAL ROOM CBM202. EXISTING PANEL 24FLS-1 AND EXISTING CONTACTOR LC-F1 LOCATED IN THIS ROOM.
14	EXTEND EXISTING CONDUIT AND WIRING FROM EXISING LIGHT POLE TO NEW LIGHTING POLES INDICATED.
15	1" UNDERGROUND SCHEDULE 40 PVC CONDUIT FOR SITE SIGNAGE POWER. CONNECT TO 120/208V CIRCUIT 12D1-(35,37). PROVIDE NEUTRAL. INSTALL F30 WIRE.
16	1" UNDERGROUND SCHEDULE 40 PVC CONDUIT FOR SITE SIGNAGE TELECOMMUNICATIONS.
17	ELECTRONIC MEDIA BOARD.
18	IN GROUND FLAG POLE LIGHT FIXTURES. REFER TO DETAIL 4C/E-501. (TYPICAL)
19	CONTROL LIGHTING CIRCUIT FROM LIGHTING CONTACTOR LC-D1.
20	NEW PROPOSED ROUTING FOR SPORTS LIGHTING FEEDERS.
21	PRE-FABRICATED PRESSBOX BY OTHERS. EXTERIOR LIGHT FIXTURES TO BE FURNISHED AND INSTALLED BY DIVISION 26.
22	CONTROL LIGHTING CIRCUIT THROUGH LIGHTING CONTACTOR LC-A1 LOCATED IN FOOTBALL CONCESSIONS BUILDING.
23	LIGHT FIXTURE CONTROLLED THROUGH LIGHTING CONTACTOR LC-F1. ROUTE THROUGH INVERTER INDICATED. REFER TO DETAIL 1D/E-501 AND 5D/E-501.
24	FIXTURE MOUNTED ABOVE DOOR TO PRESSBOX.
25	VERIFY EXACT LOCATION OF PRESSBOX PANELBOARD WITH PRESSBOX MANUFACTURER.
26	FIXTURE MOUNTED TO PRESSBOX WITH 24" POLE. COORDINATE LOCATION WITH PRESSBOX PRIOR TO INSTALLATION. INSTALL FIXTURE ABOVE PRESSBOX WINDOWS AND BELOW LANDING ON TOP OF PRESSBOX. FIELD ADJUST LIGHT FIXTURE FOR MAXIMUM COVERAGE OF BLEACHERS.
27	PHOTOCELL FOR LIGHTING CONTACTOR CONTROL.
28	LIGHT FIXTURE CONTROLLED THROUGH LIGHTING CONTACTOR LC-A1.
29	UTILITY SERVICE TRANSFORMER FEED. COORDINATE EXACT LOCATION OF SERVICE TRANSFORMER.
30	UNDERGROUND FEEDER FROM 14MDPA TO 14MDPB.
31	FOOTBALL FIELD TICKET BOOTH. REFER TO ES102 FOR MORE INFORMATION.
32	BASEBALL AND SOFTBALL FIELD CONCESSION STAND BUILDING ELECTRICAL ROOM. SEE SHEET ES104 FOR MORE INFORMATION.
33	FOOTBALL FIELD CONCESSION STAND BUILDING ELECTRICAL ROOM. SEE SHEET ES104 FOR MORE INFORMATION.
34	MAIN CAMERA LOCATION (400M, 800M, 1600M, 3200M, 10000M) JB1 CONNECTIONS: A. POWER FOR CAMERA A SWITCH IF MULTIPLE CAMERAS. B. BELDEN 1700A (CAT5 OR CAT 5+) WITH RJ45 CONNECTORS FROM PC1 TO PRESS BOX WITH A MAXIMUM LENGTH OF 100M (328'). C. BELDEN 9533 (START CABLE) WITH XLR-3 CONNECTORS FROM PC1 TO PC4 (SPLICE A FEMALE AND MALE XLR CONNECTOR AT PC1)(THE FEMALE CONNECTOR PLUGS INTO THE STARTER CABLE AND MALE CONNECTOR WILL PLUG INTO THE CONNECTION BOX FOR THE FINISH(LYNX CAMERA).
35	MAIN OUTSIDE CAMERA LOCATION (400M, 800M, 1600M, 3200M, 10000M) JB1A CONNECTIONS: A. POWER FOR CAMERA. B. BELDEN 1700A (CAT5 OR CAT5+) WITH RJ45 CONNECTORS FROM JB1 TO JB1A.
36	START LOCATIONS (1500M, 300M) JB3 CONNECTIONS: A. BELDEN 9533 (START CABLE) WITH XLR-3 CONNECTORS FROM PC3 TO PC2. (TERMINATE WITH A FEMALE XLR AT PC2)(THE FEMALE CONNECTOR PLUGS INTO THE STARTER CABLE.)
37	START LOCATIONS (200M, 5000M) A. BELDEN 9533 (START CABLE) WITH XLR-3 CONNECTORS FROM PC3 TO PC4. PC4 (SPLICE TWO FEMALE XLR CONNECTORS AT PC3)(ONE FEMALE CONNECTOR PLUGS INTO THE STARTER CABLE AND THE OTHER FEMALE CONNECTOR WILL PLUG INTO A MALE CONNECTOR CONTINUING THE GUN CABLE CIRCUIT.) THIS CAN ALSO BE A CONTINUOUS RUN WITH A WHIP AND FEMALE XLR. B. OPTION 200M FINISH - BELDEN 1700A (CAT5 OR CAT5+) WITH RJ45 CONNECTORS FROM PC2 TO PC3 WITH A MAXIMUM LENGTH OF 100M (328').
38	ALTERNATE CAMERA LOCATION (100M, 110M) JB4 CONNECTIONS: A. POWER FOR CAMERA. B. BELDEN 1700A (CAT5 OR CAT5+) WITH RJ45 CONNECTORS FROM PC1 TO PC4 WITH A MAXIMUM LENGTH OF 100M (328'). C. A. BELDEN 9533 (START CABLE) WITH XLR-3 CONNECTORS FROM PC1 TO PC4. PC4 (SPLICE TWO FEMALE XLR CONNECTORS AT PC4)(ONE FEMALE CONNECTOR PLUGS INTO THE STARTER CABLE AND THE OTHER FEMALE CONNECTOR WILL PLUG INTO A MALE CONNECTOR CONTINUING THE GUN CABLE CIRCUIT.) THIS CAN ALSO BE A CONTINUOUS RUN WITH A WHIP AND FEMALE XLR.
39	ALTERNATE CAMERA LOCATION (100M, 110M) JB4 CONNECTIONS: A. POWER FOR CAMERA. B. BELDEN 1700A (CAT5 OR CAT5+) WITH RJ45 CONNECTORS FROM JB4 TO JB2-A.
40	INSTALL #8 WIRE TO TIMING SYSTEM RECEPTACLES IN JUNCTION BOXES SHOWN ON DRAWINGS. REFER TO DETAIL ON THIS SHEET.
41	INSTALL (1) 1-1/4" CONDUIT AND 3/4" CONDUIT WITH PULL-STRING UP TO PRESSBOX. COORDINATE WHERE TO TERMINATE CONDUIT IN PRESSBOX WITH OWNER.

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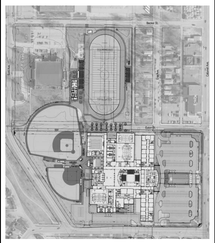
Project No. 2017-105.ATF
Project Date 02.17.2021
Produced JF/KE/JH/JR

#	Revision	Date
A1	ADD.1	3/5/2021

5926 Calumet Ave
Hammond, IN 46320



KEY PLAN

School City of Hammond

School City of Hammond

Hammond Central HS - BID PACKAGE 3

OVERALL SITE PLAN

ES101

ES101_OVERALL SITE PLAN
2017-105.ATF_School City of Hammond_Technical Center HS - BID PACKAGE 3_
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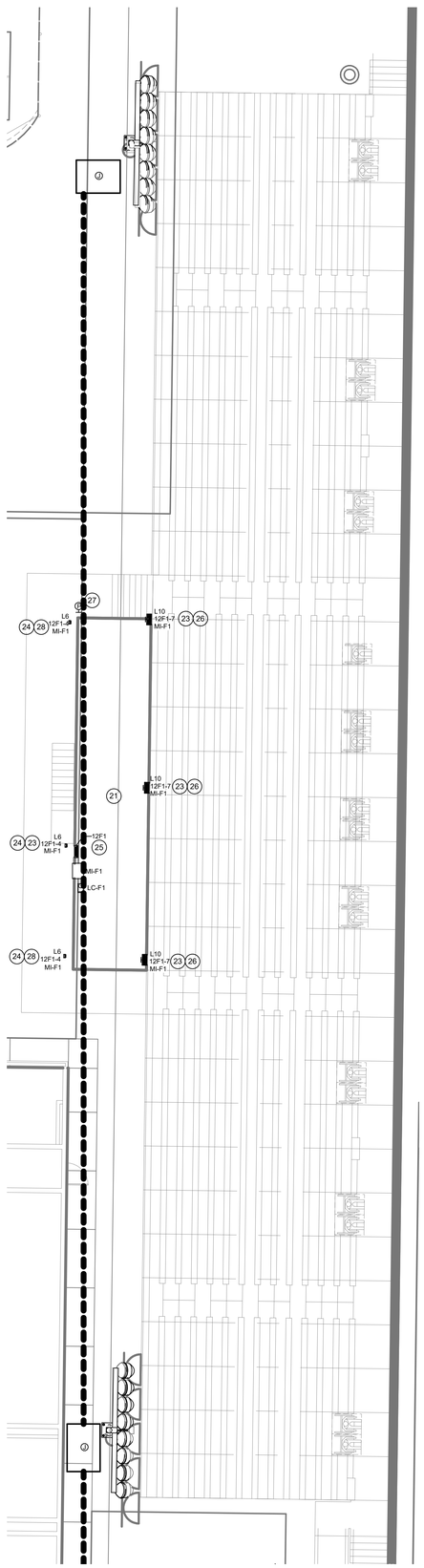
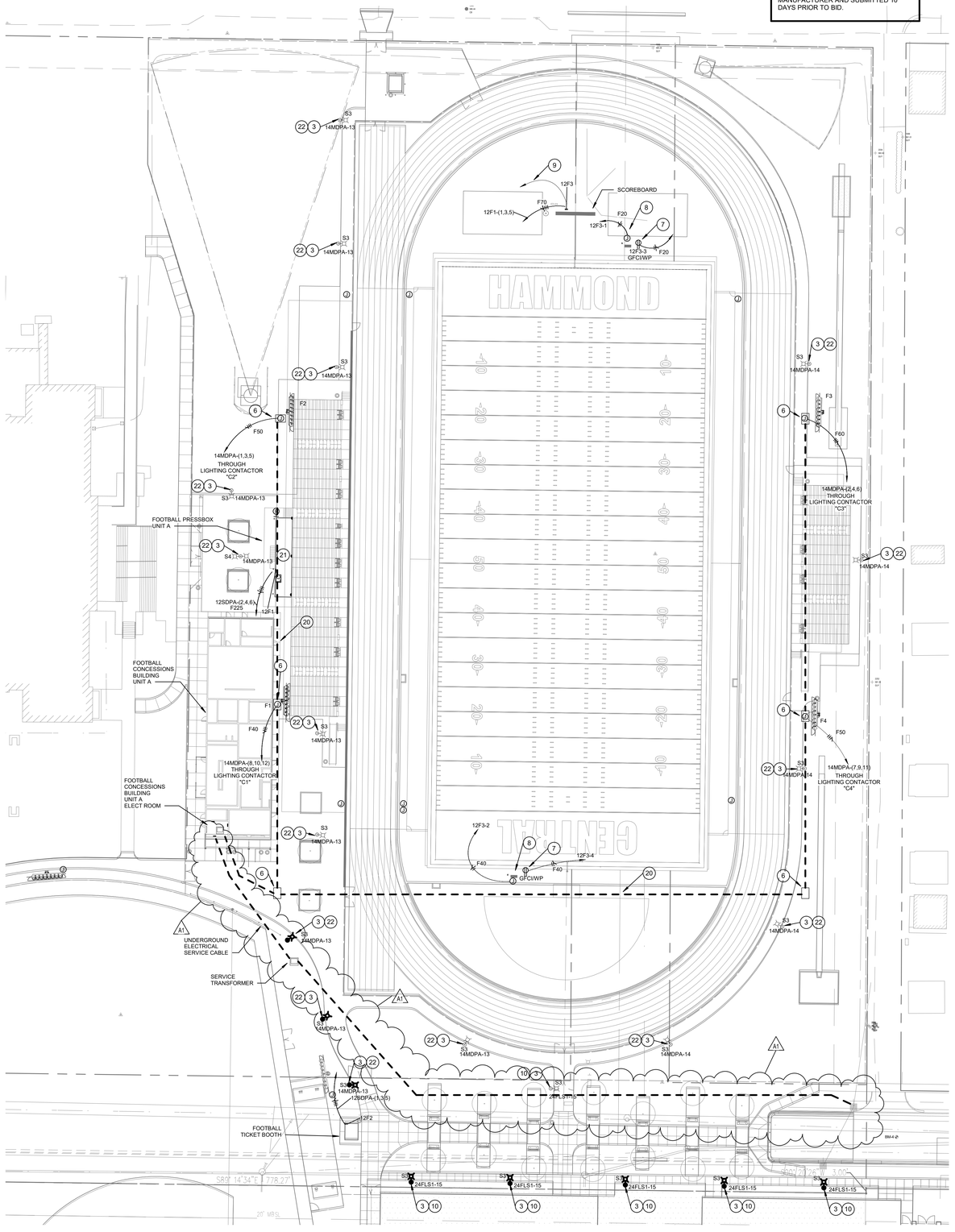


5A **FOOTBALL PRESSBOX/BLEACHERS**
1/8" = 1'-0"

BASIS OF DESIGN: MUSCO

ALL MANUFACTURERS TO BE CONSIDERED MUST PROVIDE COMPLETE PHOTOMETRICS THAT MEET BASIS OF DESIGN AS INDICATED ON SITE LAYOUT, DETAILS, SCHEDULE SHEETS, AND SPECIFICATIONS. REFER TO THIS SHEET FOR AREAS/ZONES TO PERFORM CALCULATIONS. ANY CHANGE IN DESIGN AND COST IN CIRCUITING, MOUNTING, ETC. WILL BE DESIGNED BY ALTERNATE MANUFACTURER AND SUBMITTED 10 DAYS PRIOR TO BID.



2A **FOOTBALL FIELD SITE PLAN**
1" = 30'-0"

GENERAL SITE NOTES

#	NOTES
A	REFER TO SHEET E-001 FOR ADDITIONAL INFORMATION.
B	REFER TO LOCAL UTILITIES GUIDE FOR DETAILS AND REQUIREMENTS. INCLUDING, BUT NOT LIMITED TO, SERVICE REQUIREMENTS FOR UNDERGROUND PRIMARY, PROTECTIVE POLES FOR PAD-MOUNTED EQUIPMENT, UTILITY TRANSFORMER CONCRETE PAD DETAIL, ETC. INCLUDE ALL UTILITY FEES REQUIRED IN BID.

SITE PLAN NOTES

#	NOTES
1	EXISTING POLE MOUNT LIGHT FIXTURE TO REMAIN, PROTECT DURING CONSTRUCTION.
2	REFER TO DETAILS 1A/E-501 AND 4A-/E-501 FOR POLE BASE DETAILS (42").
3	REFER TO DETAILS 2A/E-501 AND 4A/E-501 FOR POLE BASE DETAILS (6").
4	CONTROL LIGHTING CIRCUIT THROUGH EXISTING LIGHTING CONTACTOR LC-D1 LOCATED IN ELEC RM CM101.
5	CONTROL LIGHTING CIRCUIT THROUGH EXISTING LIGHTING CONTACTOR LC-B1 LOCATED IN ELEC RM BM101.
6	NEW FLUSH-MOUNTED QUAZITE BOX.
7	PLAYCLOCK RECEPTACLE MOUNTED ON PLAYCLOCK POST. REFER TO E-502 FOR DETAIL.
8	FOOTBALL PLAYCLOCK. REFER TO E-502 FOR DETAIL.
9	(1) 2" CONDUIT WITH PULL STRING TO PRESS BOX.
10	CONTROL LIGHTING CIRCUIT THROUGH EXISTING LIGHTING CONTACTOR LC-F1 LOCATED IN MECH RM BM202.
11	ELECTRICAL ROOM BM101. EXISTING PANEL 14B1 AND EXISTING CONTACTOR LC-B1 LOCATED IN THIS ROOM.
12	ELECTRICAL ROOM CM101. EXISTING PANEL 12D1, EXISTING PANEL 14D1 AND EXISTING CONTACTOR LC-D1 LOCATED IN THIS ROOM.
13	APPROXIMATE LOCATION OF MECHANICAL ROOM CBM202. EXISTING PANEL 24FLS-1 AND EXISTING CONTACTOR LC-F1 LOCATED IN THIS ROOM.
14	EXTEND EXISTING CONDUIT AND WIRING FROM EXISING LIGHT POLE TO NEW LIGHTING POLES INDICATED.
15	1" UNDERGROUND SCHEDULE 40 PVC CONDUIT FOR SITE SIGNAGE POWER. CONNECT TO 120/208V CIRCUIT 12D1-(35,37). PROVIDE NEUTRAL. INSTALL F30 WIRE.
16	1" UNDERGROUND SCHEDULE 40 PVC CONDUIT FOR SITE SIGNAGE TELECOMMUNICATIONS.
17	ELECTRONIC MEDIA BOARD.
18	IN GROUND FLAG POLE LIGHT FIXTURES. REFER TO DETAIL 4C/E-501. (TYPICAL)
19	CONTROL LIGHTING CIRCUIT FROM LIGHTING CONTACTOR LC-D1.
20	NEW PROPOSED ROUTING FOR SPORTS LIGHTING FEEDERS.
21	PRE-FABRICATED PRESSBOX BY OTHERS. EXTERIOR LIGHT FIXTURES TO BE FURNISHED AND INSTALLED BY DIVISION 26.
22	CONTROL LIGHTING CIRCUIT THROUGH LIGHTING CONTACTOR LC-A1 LOCATED IN FOOTBALL CONCESSIONS BUILDING.
23	LIGHT FIXTURE CONTROLLED THROUGH LIGHTING CONTACTOR LC-F1. ROUTE THROUGH INVERTER INDICATED. REFER TO DETAIL 1D/E-501 AND 5D/E-501.
24	FIXTURE MOUNTED ABOVE DOOR TO PRESSBOX.
25	VERIFY EXACT LOCATION OF PRESSBOX PANELBOARD WITH PRESSBOX MANUFACTURER.
26	FIXTURE MOUNTED TO PRESSBOX WITH 24" POLE. COORDINATE LOCATION WITH PRESSBOX PRIOR TO INSTALLATION. INSTALL FIXTURE ABOVE PRESSBOX WINDOWS AND BELOW LANDING ON TOP OF PRESSBOX. FIELD ADJUST LIGHT FIXTURE FOR MAXIMUM COVERAGE OF BLEACHERS.
27	PHOTOCELL FOR LIGHTING CONTACTOR CONTROL.
28	LIGHT FIXTURE CONTROLLED THROUGH LIGHTING CONTACTOR LC-A1.
29	UTILITY SERVICE TRANSFORMER FEED. COORDINATE EXACT LOCATION OF SERVICE TRANSFORMER.
30	UNDERGROUND FEEDER FROM 14MDPA TO 14MDPB.
31	FOOTBALL FIELD TICKET BOOTH. REFER TO ES102 FOR MORE INFORMATION.
32	BASEBALL AND SOFTBALL FIELD CONCESSION STAND BUILDING ELECTRICAL ROOM. SEE SHEET ES104 FOR MORE INFORMATION.
33	FOOTBALL FIELD CONCESSION STAND BUILDING ELECTRICAL ROOM. SEE SHEET ES104 FOR MORE INFORMATION.
34	MAIN CAMERA LOCATION (400M, 800M, 1600M, 3200M, 10000M) JB1 CONNECTIONS: A. POWER FOR CAMERA A SWITCH IF MULTIPLE CAMERAS. B. BELDEN 1700A (CAT5 OR CAT 5+) WITH RJ45 CONNECTORS FROM PC1 TO PRESS BOX WITH A MAXIMUM LENGTH OF 100M (328'). C. BELDEN 9533 (START CABLE) WITH XLR-3 CONNECTORS FROM PC1 TO PC4 (SPLICE A FEMALE AND MALE XLR CONNECTOR AT PC1)THE FEMALE CONNECTOR PLUGS INTO THE STARTER CABLE AND MALE CONNECTOR WILL PLUG INTO THE CONNECTION BOX FOR THE FINISHLYNX CAMERA).
35	MAIN OUTSIDE CAMERA LOCATION (400M, 800M, 1600M, 3200M, 10000M) JB1A CONNECTIONS: A. POWER FOR CAMERA. B. BELDEN 1700A (CAT5 OR CAT5+) WITH RJ45 CONNECTORS FROM JB1 TO JB1A.
36	START LOCATIONS (1500M, 300M) JB3 CONNECTIONS: A. BELDEN 9533 (START CABLE) WITH XLR-3 CONNECTORS FROM PC3 TO PC2. (TERMINATE WITH A FEMALE XLR AT PC2)(THE FEMALE CONNECTOR PLUGS INTO THE STARTER CABLE.)
37	START LOCATIONS (200M, 5000M) A. BELDEN 9533 (START CABLE) WITH XLR-3 CONNECTORS FROM PC3 TO PC4. PC4 (SPLICE TWO FEMALE XLR CONNECTORS AT PC3)(ONE FEMALE CONNECTOR PLUGS INTO THE STARTER CABLE AND THE OTHER FEMALE CONNECTOR WILL PLUG INTO A MALE CONNECTOR CONTINUING THE GUN CABLE CIRCUIT.) THIS CAN ALSO BE A CONTINUOUS RUN WITH A WHIP AND FEMALE XLR. B. OPTION 200M FINISH - BELDEN 1700A (CAT5 OR CAT5+) WITH RJ45 CONNECTORS FROM PC2 TO PC3 WITH A MAXIMUM LENGTH OF 100M (328').
38	ALTERNATE CAMERA LOCATION (100M, 110M) JB4 CONNECTIONS: A. POWER FOR CAMERA. B. BELDEN 1700A (CAT5 OR CAT5+) WITH RJ45 CONNECTORS FROM PC1 TO PC4 WITH A MAXIMUM LENGTH OF 100M (328'). C. A. BELDEN 9533 (START CABLE) WITH XLR-3 CONNECTORS FROM PC1 TO PC4. PC4 (SPLICE TWO FEMALE XLR CONNECTORS AT PC4)(ONE FEMALE CONNECTOR PLUGS INTO THE STARTER CABLE AND THE OTHER FEMALE CONNECTOR WILL PLUG INTO A MALE CONNECTOR CONTINUING THE GUN CABLE CIRCUIT.) THIS CAN ALSO BE A CONTINUOUS RUN WITH A WHIP AND FEMALE XLR.
39	ALTERNATE CAMERA LOCATION (100M, 110M) JB4 CONNECTIONS: A. POWER FOR CAMERA. B. BELDEN 1700A (CAT5 OR CAT5+) WITH RJ45 CONNECTORS FROM JB4 TO JB2-A.
40	INSTALL #8 WIRE TO TIMING SYSTEM RECEPTACLES IN JUNCTION BOXES SHOWN ON DRAWINGS. REFER TO DETAIL ON THIS SHEET.
41	INSTALL (1) 1-1/4" CONDUIT AND 3/4" CONDUIT WITH PULL-STRING UP TO PRESSBOX. COORDINATE WHERE TO TERMINATE CONDUIT IN PRESSBOX WITH OWNER.

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Project No. 2017-105.ATF
Project Date 02.17.2021
Produced JF/KE/JH/JR

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#	Revision	Date
A1	ADD.1	3/5/2021

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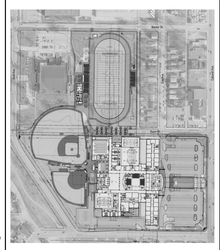
Hammond, IN 46320



KEY PLAN

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School City of Hammond

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Hammond Central HS - BID PACKAGE 3

FOOTBALL FIELD SITE PLAN

ES102

ES102_FOOTBALL FIELD SITE PLAN
2017-105.ATF_School City of Hammond_Hammond Central HS - BID PACKAGE 3_
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