Project Manual

IFB No. 18-20 Project No. 17-064

Walker Elementary School – Building Demolition

at 1520 Post Avenue

for

Rockford Public Schools #205

Rockford, Illinois

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ADVERTISEMENT FOR BIDS

DATE:	January 4, 2018
PROJECT:	Walker School Building Demolition at 1520 Post Avenue for Rockford Public Schools #205
LOCATION:	1520 Post Avenue Rockford, Illinois 61103
OWNER:	Rockford School District # 205 501 7th Street Rockford, Illinois 61104
ARCHITECT:	Richard L. Johnson Associates, Inc. 4703 Charles Street Rockford, Illinois 61108 Tel: 815/ 398-1231 Fax: 815/ 398-1280
SCOPE:	Bids will be received for a single contract for all Demolition Work:
PRE-BID MEETING:	All prospective Contractors are urged to attend a Pre-Bid Meeting at 3:00 P.M. on Thursday January 11, 2018 at the site at 1520 Post Avenue, Rockford, Illinois.
DATE DUE:	Sealed bids will be received until 2:00 pm on Thursday, January 25, 2018, at the Rockford School District Office in Conference Room on 6th Floor and will be publicly opened and read aloud at that time.
PRE-BID SITE VISIT:	Contractors are required to survey the existing conditions prior to bidding. Contact Kevin Behling at 815-847-0617 to set up an appointment.
ACCESS TO BIDDING DOCUMENTS:	Bidding Documents are on file for reference at the following locations: Office of the Architect..... Rockford, Illinois Bidding Documents may be secured from the Rockford Public Schools #205 office at 501 7th Street.
BID FORM:	Bids shall be submitted in duplicate on forms issued with the Bid Documents.

DEPOSIT REQUIRED: Bidders may secure up to two (2) sets of bidding documents by submitting $50.00 refundable deposit per set.

Bidders may secure extra bidding documents by submitting a non-refundable check in the amount of $50.00 per set, payable to the Richard L. Johnson Associates, Inc. to cover the cost of handling and printing.
Full amount of the refundable deposit will be returned to bidders who submit bids if documents are returned in usable condition within ten (10) days after the opening of bids.

BID SECURITY: Bids shall be accompanied by a Bid Security of at least 5% of the total amount of the base bid and all additive alternate bids. This may be in the form of a certified check, cashier's check, bank draft or bid bond, payable to the Owner as a guarantee that should the bidder be awarded the Work**,** the bidder will enter into a contract with the Owner and will furnish the proper performance and payment bond within the time limit set by the Owner. Bid securities will be returned to all other bidders when the successful bidder files a proper performance and payment bond and the contract is executed by the Owner. If the successful bidder fails to file such contract and performance and payment bond**,** the amount of his bid security shall be forfeited to the Owner as liquidated damages.

WAGE RULES: Each craft, type of worker and mechanic needed to execute the Contract shall be paid the prevailing wage rate for the locality in which the work is performed, in accordance with all federal laws and laws of the State as well as local ordinances and regulations applicable to the work hereunder and having force of law.

RIGHTS RESERVED BY OWNER: The Owner reserves the right to waive any irregularities and/or reject any or all bids when, in the opinion of the Owner, such action will serve the best interests of the Owner.

WITHDRAWAL OF BIDS: No bid may be withdrawn for a period of 60 days after the opening of bids without written consent of the Owner.

By order of the Board of Education for
Rockford Public Schools #205

SECTION SITB
SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

GENERAL

A. The standard American Institute of Architects (AIA) Document A701**, "**Instructions to Bidders**,"** 2007 Edition**,** attached hereto**,** shall apply in full except for the modifications and supplementary instructions specified in this Section.

B. Bids will be accepted only from Bidders who have secured the Drawings and Specifications directly from the Owner.

C. Owner requests Stipulated Sum Base Bids for work contemplated**,** as covered by the Project Manual and accompanying Drawings.

D. The laws of Illinois shall govern the solicitation and award of the Contract.

2.1.5 PERMITS AND FEES

A. By submitting a Bid**,** the Bidder represents that the Bid includes all permits and fees, other than the building permit, required by all authorities having jurisdiction for any branches of the work.

B. The Owner will obtain the building permit. The Contractor shall acquire and pay for any other permits required.

2.1.6 TAXES

A. Sales Tax: According to Tax Rule #15 (Illinois Retailer's Occupational Tax**,** 2-1-69)**,** supplies and materials used on this project are exempt from the Retailer's Occupational Tax and therefore said tax shall not be included in bid amounts.

2.1.7 EMPLOYMENT AND WAGES PAID

A. Wage Rules: Each craft**,** type of worker and mechanic needed to execute the Contract shall be paid the prevailing wage rate for the locality in which the work is performed**,** in accordance with all federal laws and laws of the State as well as ordinances and regulations applicable to the work hereunder and having force of law. (See the schedule of prevailing wages at end of these ***Supplementary Instructions to Bidders***.)

B. If**,** during the course of the Contract**,** the Department of Labor revises the prevailing wage rates**,** the Contractor shall have the sole responsibility and duty to ensure that wages paid**,** whether to employees of the Contractor or any subcontractor**,** are paid according to the revised prevailing rates. Revisions of the prevailing wage rates shall not be cause for an increase in the Contract Sum.

3.2.5 SITE VISIT

A. All prospective Contractors are to visit the site to familiarize themselves the conditions under which the project will be bid and performed.

B. Contractors must acknowledge having visited the site by so noting on the appropriate place contained on the Bid Form.

4.1.8 TIME OF PERFORMANCE

A. All site deconstruction may begin March 5, 2018 and shall be complete no later than June 1, 2018.

4.2.4 BID SECURITY

A. Bid Security in the amount of 5% of the Base Bid, payable to the Owner, shall be submitted with the Bid in the form of a certified check, cashier's check, bank draft, or bid bond from a bonding company with a Best rating of "B" or better.

4.3.1 RECEIVING BIDS

A. All Bids shall be submitted in a sealed envelope boldly labeled with the words "SEALED BID ENCLOSED FOR WALKER SCHOOL BUILDING DEMOLITION FOR RPS#205."

B. Bids received before the time set for receipt of Bids will be securely kept unopened. No responsibility will attach to the Owner or the Architect for premature opening of a Bid not properly identified.

C. The Owner will decide when the specified time for receipt and opening of Bids has arrived.

5.2.2 REJECTION OF BIDS

A. The Contract will be awarded to the lowest qualified bidder complying with the conditions of the Bidding Documents, provided that the lowest bid submitted is reasonable and that it is to the interest of the Owner to accept it.

B. The Owner reserves the right to reject any and all bids and to waive any irregularities in bids received whenever such rejection or waiver is in the interest of the Owner. The Owner also reserves the right to reject the bid of any bidder who has previously failed to perform properly or complete on time contracts of a similar nature; who is not in a position to perform the contract; or who has habitually and without just cause neglected the payment of bills or otherwise disregarded any obligation to subcontractors, material suppliers or employees. In determining the successful bidder, the following elements, in addition to those mentioned above, will be considered: Whether the bidder involved (a) maintains a permanent place of business; (b) has adequate plant equipment to do the work properly and expeditiously; (c) has a suitable financial status to meet the obligations incidental to the work; and (d) has appropriate technical experience. Also, see 6.1.2. QUALIFICATIONS OF BIDDER.

C. Negligence on the part of the Bidder in preparing his Bid shall confer no right of withdrawal or modification of his Bid after the Bid has been opened.

D. Bidders may be required to cooperate with the Owner and Architect by providing a detailed breakdown of prices bid in order to show, in the manner and form required by the Architect, the division of costs between the several divisions of the Work.

E. In case of a discrepancy between the prices quoted in words and those quoted in numbers, the prices quoted in words shall govern.

5.3.1 AWARD OF CONTRACT

A. The bidder to whom the award is to be made will be notified at the earliest possible date.

6.1.2 QUALIFICATIONS OF BIDDER

A. Bidders shall submit a completed AIA Document A305, "Contractor's Qualification Statement" with the bid.

B. The Owner may make such further investigations of bidders as he deems necessary to determine the ability of a bidder to perform the work, and such bidder shall furnish to the Owner all such data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted, or investigation of such bidder, fails to satisfy the Owner that such bidder is properly qualified to carry out the obligations of the Contract and to complete the work contemplated.

C. In compliance with State Statutes, the low two (2) bidders shall file a statement of "Bidder's Proof of Responsibility" on firm's letterhead, with the Architect, not later than three (3) days after the opening of bids, unless a current statement is already on file with the Architects.

1. Said statement shall contain:
    a. Bidder's condensed financial statement, listing total assets, total liabilities, net worth, and cash in bank.
    b. Résumé of organization's type and history, with Owner's name and address.
    c. List of main items of construction plant and equipment.
    d. List of jobs completed within last three years, listing names, contract amounts, and architects' names.

2. Said statement shall be sworn to before an officer authorized by law to administer oaths. No bids will be considered without compliance as specified, by order of Owner.

7.1 SCHEDULE OF PREVAILING WAGE RATES

D. A Schedule of the Prevailing Wage Rates for Winnebago County for the month of March 2014 is included as follows. The successful Contractor and his subs can obtain copies of future months from the State of Illinois Dept. of Labor. Changes issued by the Dept. of Labor after April 2007 shall then prevail over the rates listed at time of Bidding.

E. Winnebago County Prevailing Wage for May, 2018

Trade Name	RG	TYP	C	Base	FRMAN	MF>8	OSA	OSH	H/W	Pensn	Vac	Trng
==========	==	===	=	======	======	=====	===	===	=====	=====	=====	=====	===

END SUPPLEMENTARY INSTRUCTIONS TO BIDDERS

SECTION 01500
SPECIAL REQUIREMENTS

CONTENTS

1. JOB CONDITIONS & OPERATIONS

A. The Contractor and each subcontractor and material supplier shall inform himself of the conditions relating to execution of his work. Neglect of this requirement will not be accepted as cause for additional compensation and/or additional time for completion.

B. Contractor shall enforce all rules that Architect or Owner may establish for conduct of workers on premises including the use of radios and like devices.

C. No constructions shall be loaded with materials or equipment or otherwise loaded to invite damage.

D. Existing drawings of the structure to be demolished, are available for viewing by interested Bidders on the School District's web site ftp://ftp.bhfx.net/rockford_public_schools. Type in User Name: RPS and Password: 205.

2. GRADES, LINES & LEVELS

A. Contractor shall take measurements at site as required for the work and to locate existing utilities. Contractor shall contact the City, the County, the Owner and all utility companies to carefully review all records of exposed, concealed and buried points of connections, as to location, size, type, depth, operating characteristics, etc.

3. USE OF SITE

A. Space limitations: No areas outside construction limits may be used for any purpose by contractors or subcontractors.

B. Contractor shall confine equipment, storage of materials, parking and operations of workmen to the limits indicated or according to the directions of the Owner. Site storage space shall be confined to area of site.

C. Areas used for parking, sheds, offices and storage shall be repaired before Final Inspection.

D. No signs will be permitted on the site, except for signs identifying architect's, engineers' and contractors' names, signs related to the processes necessary to accomplish the Work, signs for protection of persons and property, signs required by law and signs otherwise approved by Owner.

4. CLEANING

A. General Cleaning: The Contractor shall remove rubbish and debris from the site promptly as it accumulates. The Contractor shall perform an overall cleanup of the entire site as frequently as required.

B. No burning of rubbish or debris will be allowed at site, nor shall debris be buried at the site. Do not dispose of wastes into streams or waterways.

C. Contractor shall provide construction dumpsters, as required, for trash removal covered with lids or tarps securely fastened to prevent debris from blowing about site.

D. Keep streets, paved parking areas to remain and public roadways clean of dirt and mud tracked onto such surfaces by vehicles or equipment used or parked on construction site.

E. Final Cleaning: Contractor shall see to it that the site is clean and free of foreign matter upon completion of the work, to the satisfaction of the Architect.

1. Upon completion of the work, the Contractor and each subcontractor shall remove and dispose of all equipment and unused materials provided for his work.

5. PROTECTION

A. The Contractor shall:

1. Provide and maintain barricades, warning signs, orange plastic snow fencing, planking, and guard lights as necessary for protection of curbs, sidewalks, streets and drives, adjoining property, the public, the Owner's employees and the new constructions.

2. Use caution always to protect persons against injury resulting from job operations, equipment and materials moving onto and off the site, and standing equipment.

3. Provide and maintain proper shoring and bracing for existing underground utilities, sewer, etc., encountered during excavation work, to protect them from collapse or other type of damage until such time as they are to be removed, or can be properly backfilled.

4. Protect trees, shrubs, lawns, landscape work from damage, by providing guards and covering and maintaining plank covering over walks, drives, newly installed utility services, etc., to prevent damage by trucking or otherwise, including areas outside of grading and/or construction limits.

5. Notify, in writing, the owners of property which interfere with work and arrange with them for disposition of such property.

B. Contractor and each subcontractor shall protect his own materials, work and equipment not normally covered by above protection and shall execute work so as not to damage work of other trades.

C. Any contractor or subcontractor causing damage to any of the Work shall have, at his own expense, the damaged work replaced or repaired to its original condition. Property

damaged outside of Owner's property line shall be repaired in accordance with requirements of its owner or the authority having jurisdiction.

6. CONSTRUCTION TOILETS

A. The Contractor shall furnish temporary toilet facilities for the use of all personnel engaged on the Work. Commercially serviced portable chemical units shall be used. Quantity shall be sufficient for the maximum number of workers engaged for any particular day.

B. Toilet facilities shall be serviced at least twice weekly, including emptying of tanks, recharging of germicidal and deodorizing solutions, and scrubbing entire interior with a germicidal solution.

7. TEMPORARY STAIRS, LADDERS, RAMPS, RUNWAYS

A. The Contractor shall provide and maintain temporary stairs, fixed ladders, ramps, chutes, and runways as required for proper execution of work by all trades.

8. TEMPORARY PARKING

A. Construction personnel may park vehicles on site as directed by Owner.

9. TEMPORARY FIRE PROTECTION

A. During demolition period, the Contractor shall provide and maintain adequate fire protection per the requirements of jurisdictional authorities, for demolition site. The Contractor shall also provide and maintain fire extinguishers and fire watches per the requirements of the Owner's facilities insurance company.

10. ASBESTOS REMOVAL

A. Removal of asbestos products shall only be done in accordance with State and Federal guidelines, applicable EPA, NESHAPS, IDPH AND OSHA Regulations and by State approved asbestos removal contractor hired by the Owner.

B. The Pre-demolition Asbestos Inspection Report is included in Appendix "A".

END 01500

SECTION 012600
CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

1.3 MINOR CHANGES IN THE WORK

A. Architect will issue through Owner supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions."

1.4 PROPOSAL REQUESTS

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

1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
2. Within time specified in Proposal Request or 10 days, when not otherwise specified, after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.

    a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
    b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
    c. Include costs of labor and supervision directly attributable to the change.
    d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

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

1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
4. Include costs of labor and supervision directly attributable to the change.
5. Include an updated Contractor's construction schedule.

1.5 CHANGE ORDER PROCEDURES

A. On Owner's approval of a Work Changes Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on AIA Document G701.

B. The combined overhead and profit included in the total cost to the Owner for a change in the Work shall be based on the following schedule:

1. For the Contractor, for Work performed by the Contractor's own forces, twelve percent of the cost.

2. For the Contractor, for Work performed by the Subcontractor's, five percent of the amount due the Subcontractors.

3. For each Subcontractor involved, for Work performed by the Subcontractor's own forces, five percent of the cost.

4. For each Subcontractor involved, for Work performed by the Subcontractor's Sub-subcontractors, five percent of the amount due the Sub-subcontractor.

5. In order to facilitate checking of quotations for extras and credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, materials and Subcontracts. Labor and materials shall be itemized in the manner prescribed above. Where major cost items are Subcontracts, they shall be itemized also.

1.6 CONSTRUCTION CHANGE DIRECTIVE

A. Construction Work Change Directive: Architect may issue a Construction Work Change Directive on AIA Document G714 Change Directive instructs Contractor to proceed with a change in the Work, for subsequent inclusion in a Change Order.

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

B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.

1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

END OF SECTION 012600

SECTION 013100
PROJECT MANAGEMENT & COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:

1. Coordination drawings.
2. Requests for Information (RFIs).
3. Project meetings.

B. Related Requirements:

1. Section 011200 "Multiple Contract Summary" for a description of the division of work among separate contracts and responsibility for coordination activities not in this Section.
2. Section 017300 "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.

1.3 DEFINITIONS

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

1.4 INFORMATIONAL SUBMITTALS

A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:

1. Name, address, and telephone number of entity performing subcontract or supplying products.
2. Number and title of related Specification Section(s) covered by subcontract.
3. Drawing number and detail references, as appropriate, covered by subcontract.

1.5 GENERAL COORDINATION PROCEDURES

A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection, and operation.

1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
3. Make adequate provisions to accommodate items scheduled for later installation.

B. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:

1. Preparation of Contractor's construction schedule.
2. Preparation of the schedule of values.
3. Installation and removal of temporary facilities and controls.
4. Delivery and processing of submittals.
5. Progress meetings.
6. Preinstallation conferences.
7. Project closeout activities.
8. Startup and adjustment of systems.

1.6 COORDINATION DRAWINGS

A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.

1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:

    a. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
    b. Coordinate the addition of trade-specific information to the coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.

1.7 REQUESTS FOR INFORMATION (RFIs)

A. General: Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI in the form specified.

1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.

B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:

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

C. RFI Forms: AIA Document G716.

1. Attachments shall be electronic files in Adobe Acrobat PDF format.

D. Architect's Action: Architect and will review each RFI, determine action required, and respond. Allow seven working days for Architect's response for each RFI. RFIs received by Architect after 1:00 p.m. will be considered as received the following working day.

1. The following Contractor-generated RFIs will be returned without action:

a. Requests for approval of submittals.
b. Requests for approval of substitutions.
c. Requests for approval of Contractor's means and methods.
d. Requests for coordination information already indicated in the Contract Documents.
e. Requests for adjustments in the Contract Time or the Contract Sum.
f. Requests for interpretation of Architect's actions on submittals.
g. Incomplete RFIs or inaccurately prepared RFIs.

2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 012600 "Contract Modification Procedures."

1.8 PROJECT MEETINGS

A. General Contractor: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.

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

B. Preconstruction Conference: Architect will schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect.

1. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
2. Agenda: Discuss items of significance that could affect progress, including the following:

    a. Tentative construction schedule.
    b. Phasing.
    c. Critical work sequencing and long-lead items.
    d. Designation of key personnel and their duties.
    e. Lines of communications.
    f. Procedures for processing field decisions and Change Orders.
    g. Procedures for RFIs.
    h. Procedures for testing and inspecting.
    i. Procedures for processing Applications for Payment.
    j. Distribution of the Contract Documents.
    k. Submittal procedures.
    l. Preparation of record documents.
    m. Use of the premises and existing building.
    n. Work restrictions.
    o. Working hours.
    p. Owner's occupancy requirements.
    q. Responsibility for temporary facilities and controls.
    r. Procedures for moisture and mold control.
    s. Procedures for disruptions and shutdowns.
    t. Construction waste management and recycling.
    u. Parking availability.

v. Office, work, and storage areas.
w. Equipment deliveries and priorities.
x. First aid.
y. Security.
z. Progress cleaning.

3. Minutes: Entity responsible for conducting meeting will record and distribute meeting minutes.

C. Progress Meetings: General Contractor to conduct progress meetings at weekly intervals.

1. Coordinate dates of meetings with preparation of payment requests.
2. Attendees: In addition to representatives of Owner, and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
3. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.

a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's construction schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.

1) Review schedule for next period.

b. Review present and future needs of each entity present, including the following:

1) Interface requirements.
2) Sequence of operations.
3) Status of submittals.
4) Deliveries.
5) Off-site fabrication.
6) Access.
7) Site utilization.
8) Temporary facilities and controls.
9) Progress cleaning.
10) Quality and work standards.
11) Status of correction of deficient items.
12) Field observations.
13) Status of RFIs.
14) Status of proposal requests.
15) Pending changes.
16) Status of Change Orders.
17) Pending claims and disputes.
18) Documentation of information for payment requests.

4. Minutes: Entity responsible for conducting the meeting will record and distribute the meeting minutes to each party present and to parties requiring information.

    a. Schedule Updating: Revise Contractor's construction schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue revised schedule concurrently with the report of each meeting.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 013100

SECTION 013300
SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

B. Related Requirements:

1. Section 012900 "Payment Procedures" for submitting Applications for Payment and the schedule of values.
2. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.3 DEFINITIONS

A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."

B. Informational Submittals: Written and graphic information and physical samples that do not require Architect's responsive action. Submittals may be rejected for not complying with requirements. Informational submittals are those submittals indicated in individual Specification Sections as "informational submittals."

1.4 ACTION SUBMITTALS

A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1.5 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.

    a. Architect reserve the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

B. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

1. Initial Review: Allow 5 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
3. Resubmittal Review: Allow 15 days for review of each resubmittal.

C. Paper Submittals: Place a permanent label or title block on each submittal item for identification.

1. Indicate name of firm or entity that prepared each submittal on label or title block.
2. Provide a space approximately 6 by 8 inches (150 by 200 mm) on label or beside title block to record Contractor's review and approval markings and action taken by Architect.
3. Include the following information for processing and recording action taken:

    a. Project name.
    b. Date.
    c. Name of Architect.
    d. Name of Contractor.
    e. Name of subcontractor.
    f. Name of supplier.
    g. Name of manufacturer.
    h. Submittal number or other unique identifier, including revision identifier.

        1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 061000.01.A).

    i. Number and title of appropriate Specification Section.
    j. Drawing number and detail references, as appropriate.
    k. Location(s) where product is to be installed, as appropriate.
    l. Other necessary identification.

4. Additional Paper Copies: Unless additional copies are required for final submittal, and unless Architect observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.

    a. Submit one copy of submittal to concurrent reviewer in addition to specified number of copies to Architect.

5. Transmittal for Paper Submittals: Assemble each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form. Architect will return without review submittals received from sources other than Contractor.

    a. Transmittal Form for Paper Submittals: Provide locations on form for the following information:

        1) Project name.
        2) Date.
        3) Destination (To:).
        4) Source (From:).
        5) Name and address of Architect.
        6) Name of Contractor.
        7) Name of firm or entity that prepared submittal.
        8) Names of subcontractor, manufacturer, and supplier.
        9) Category and type of submittal.
        10) Submittal purpose and description.
        11) Specification Section number and title.
        12) Specification paragraph number or drawing designation and generic name for each of multiple items.
        13) Drawing number and detail references, as appropriate.
        14) Indication of full or partial submittal.
        15) Transmittal number, numbered consecutively.
        16) Submittal and transmittal distribution record.
        17) Remarks.
        18) Signature of transmitter.

D. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:

    1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

A. General Submittal Procedure Requirements:

    1. Submit electronic submittals via email as PDF electronic files.

        a. Architect will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.

2. Action Submittals: Submit three paper copies of each submittal unless otherwise indicated. Architect will return two copies.
3. Informational Submittals: Submit two paper copies of each submittal unless otherwise indicated. Architect will not return copies.
4. Certificates and Certifications Submittals: Provide a statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.

    a. Provide a digital signature with digital certificate on electronically submitted certificates and certifications where indicated.
    b. Provide a notarized statement on original paper copy certificates and certifications where indicated.

B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.

1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
2. Mark each copy of each submittal to show which products and options are applicable.
3. Include the following information, as applicable:

    a. Manufacturer's catalog cuts.
    b. Manufacturer's product specifications.
    c. Standard color charts.
    d. Statement of compliance with specified referenced standards.
    e. Testing by recognized testing agency.
    f. Application of testing agency labels and seals.
    g. Notation of coordination requirements.
    h. Availability and delivery time information.

4. Submit Product Data before or concurrent with Samples.
5. Submit Product Data in the following format:

    a. PDF electronic file.
    b. Three paper copies of Product Data unless otherwise indicated. Architect will return two copies.

C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data**,** unless submittal based on Architect's digital data drawing files is otherwise permitted.

1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:

    a. Identification of products.
    b. Schedules.
    c. Compliance with specified standards.
    d. Notation of coordination requirements.
    e. Notation of dimensions established by field measurement.
    f. Relationship and attachment to adjoining construction clearly indicated.
    g. Seal and signature of professional engineer if specified.

2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches (215 by 280 mm), but no larger than 30 by 42 inches (750 by 1067 mm).
3. Submit Shop Drawings in the following format:

    a. PDF electronic file.
    b. Two opaque (bond) copies of each submittal. Architect will return one copy.

D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.

1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
2. Identification: Attach label on unexposed side of Samples that includes the following:

    a. Generic description of Sample.
    b. Product name and name of manufacturer.
    c. Sample source.
    d. Number and title of applicable Specification Section.
    e. Specification paragraph number and generic name of each item.

3. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.

    a. Samples that may be incorporated into the Work are indicated in individual Specification Sections. Such Samples must be in an undamaged condition at time of use.
    b. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.

5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.

    a. Number of Samples: Submit one full set of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.

6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

a. Number of Samples: Submit three sets of Samples. Architect will retain two Sample sets; remainder will be returned. Mark up and retain one returned Sample set as a project record sample.

1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.

E. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:

1. Submit product schedule in the following format:

a. PDF electronic file.
b. Three paper copies of product schedule or list unless otherwise indicated. Architect will return two copies.

F. Coordination Drawing Submittals: Comply with requirements specified in Section 013100 "Project Management and Coordination."

G. Application for Payment and Schedule of Values: Comply with requirements specified in Section 012900 "Payment Procedures."

H. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Section 014000 "Quality Requirements."

I. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 017700 "Closeout Procedures."

J. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.

K. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.

L. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.

M. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.

N. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.

O. Schedule of Test and Inspections: Comply with requirements specified in Section 014000 “Quality Requirements”.

P. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.

B. Project Closeout and Maintenance Material Submittals: See requirements in Section 017700 "Closeout Procedures."

C. Contractor's Review Stamp: review each submittal with a uniform, review stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

A. General: Architect will not review submittals that do not bear Contractor's review stamp and will return them without action.

B. Action Submittals: Architect's review is performed to determine general conformance with the design concept set forth in the Contract Documents. Review does not relieve Contractor of sole responsibility for means, methods, sequencing, scheduling of work, verification of quantities and dimensions or the performance of the work in a safe manner. No comments on the shop drawings will relieve the Contractor from performing the work in a manner consistent with the Contract Documents. Architect's review will indicate action mark as follows:

1. Reviewed.
2. Note Comments.
3. Rejected.
4. Not reviewed/Outside scope of Services.
5. Resubmit After Required General Contractor Review.
6. Revise.
7. Resubmit.

C. Subcontractors are not to use shop drawings and submittals to ask questions or request information. All questions must be asked through the RFI.

D. Architect is not responsible for correcting errors in the shop drawings or submittals.

E. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.

F. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.

G. Submittals not required by the Contract Documents may be returned by the Architect without action.

END OF SECTION 013300

SECTION 017300
EXECUTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:

1. Construction layout.
2. Field engineering and surveying.
3. Installation of the Work.
4. Cutting and patching.
5. Coordination of Owner-installed products.
6. Progress cleaning and final cleaning.
7. Starting and adjusting.
8. Protection of installed construction.

B. Related Requirements:

1. Section 011000 "Summary" for limits on use of Project site.
2. Section 017700 "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning.

1.3 DEFINITIONS

A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.

B. Patching: Fitting and repair work required to restore construction to original conditions after installation of other work.

1.4 QUALITY ASSURANCE

A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.

1. Structural Elements: When cutting and patching structural elements, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection

    a. Refer to Unit Specifications.

2. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

PART 2 - PRODUCTS

2.1 MATERIALS

A. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.

1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

1. Examine walls for suitable conditions where products and systems are to be installed.
2. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

B. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

C. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Architect according to requirements in Section 013100 "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.

3.4 INSTALLATION

A. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.

1. Make vertical work plumb and make horizontal work level.
2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.

B. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

C. Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.

D. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.

E. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.

F. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.

G. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.

H. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.

1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
2. Allow for building movement, including thermal expansion and contraction.
3. Coordinate installation of anchorages.

I. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.

J. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.5 CUTTING AND PATCHING

A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.

1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

B. Temporary Support: Provide temporary support of work to be cut.

C. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

D. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching according to requirements in Section 011000 "Summary."

E. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.

1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. Proceed with patching after construction operations requiring cutting are complete.

F. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.

1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.

3. Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

    a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.

4. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.

G. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.6 PROGRESS AND FINAL CLEANING

A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.

1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F (27 deg C).
3. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.

B. Site: Maintain Project site free of waste materials and debris.

C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.

1. Remove liquid spills promptly.
2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.

F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 017419 "Construction Waste Management and Disposal."

H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

K. Provide final cleaning of all disturbed areas. Clean all glass and frames.

3.7 STARTING AND ADJUSTING

A. Confirm proper operation of components. Remove malfunctioning units, replace with new units and retest.

B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.

C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

3.8 PROTECTION OF INSTALLED CONSTRUCTION

A. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

END OF SECTION 017300

SECTION 017419
CONSTRUCTION WASTE MANAGEMENT & DISPOSAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for the following:

1. Disposing of nonhazardous construction waste.

1.3 DEFINITIONS

A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.

B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.

C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.

1. Comply with operation, termination, and removal requirements in Section 015000 "Temporary Facilities and Controls."

2. Provide plywood under the wheels of the dumpsters.

B. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

3.2 DISPOSAL OF WASTE

A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.

1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

B. Burning: Do not burn waste materials.

C. Disposal: Remove waste materials from Owner's property and legally dispose of them.

END OF SECTION 017419

SECTION 017700
CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:

1. Substantial Completion procedures.
2. Final completion procedures.
3. Warranties.
4. Final cleaning.
5. Repair of the Work.

B. Related Requirements:

1. Section 017300 "Execution" for progress cleaning of Project site.
2. Section 017839 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.3 ACTION SUBMITTALS

A. Product Data: For cleaning agents.

B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.

C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.4 CLOSEOUT SUBMITTALS

A. Certificates of Release: From authorities having jurisdiction.

B. Certificate of Insurance: For continuing coverage.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.6 SUBSTANTIAL COMPLETION PROCEDURES

A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.

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

1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, and similar final record information.
3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number where applicable.
5. Submit test/adjust/balance records.

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

1. Advise Owner of pending insurance changeover requirements.
2. Perform preventive maintenance on equipment used prior to Substantial Completion.
3. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
4. Participate with Owner in conducting inspection and walkthrough.
5. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
6. Complete final cleaning requirements, including touchup painting.
7. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.

D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.

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

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

1.7 FINAL COMPLETION PROCEDURES

A. Preliminary procedures: Before requesting final inspection for determining final completion, complete the following:

1. Submit a final Application for Payment according to Section 012900 "Payment Procedures."
2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.

B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.

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

1.8 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.

1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.

3. Submit list of incomplete items in the following format:

a. MS Excel electronic file. Architect, will return annotated file.
b. Three paper copies. Architect will return two copies.

1.9 SUBMITTAL OF PROJECT WARRANTIES

A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.

B. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.

1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2-by-11-inch (215-by-280-mm) paper.
2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
4. Warranty Electronic File: Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide bookmarked table of contents at beginning of document.

1.10 ELECTRONIC CLOSEOUT DOCUMENTATION

A. General: Provide a complete project Closeout Documentation Package in electronic format. This package shall include:

1. Project Record Documents.
2. Approved submittals.
3. Operation and Maintenance Manuals.
4. Warranties.
5. Project Contact Directory.

B. The Electronic Closeout Document shall be prepared by BHFX, LLC – 815-397-8800 – Rockford@bhfx.net.

C. In order to the Electronic Closeout Documentation process, comply with the following:

1. Contact BHFX a minimum 3 months prior to the date of Substantial Completion to schedule a pre-closeout meeting. Review the following:

a. Format of documents: PDF electronic format for all documents and AutoCAD drawing files.
b. Folder structure for storage and transfer of files.
c. Schedule for collection and turn-over of closeout documentation
d. Record Document Format Procedures: Provide clean and accurate paper copies of marked-up Record Documents (drawings and specifications) for scanning.

e. Provide contact information for the individual responsible for the collection and transfer of the Electronic Closeout Document package contents.
f. Review the complete listing of Closeout Documentation package contents.

2. Provide all documentation to BHFX, LLC for processing no later than 30 days after the date of Substantial Completion.
3. Schedule a training conference with the Owner's Representative, Architect and BHFX to present the completed Electronic Closeoput Documentation package.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING

A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.

B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.

1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:

a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
b. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
c. Remove tools, construction equipment, machinery, and surplus material from Project site.
d. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
e. Remove debris and surface dust from limited access spaces.
f. Sweep concrete floors broom clean in unoccupied spaces.

g. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
h. Clean transparent materials, including and in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish glass, taking care not to scratch surfaces.
i. Remove labels that are not permanent.
j. Leave Project clean and ready for occupancy.

C. Construction Waste Disposal: Comply with waste disposal requirements in Section 017419 "Construction Waste Management and Disposal."

3.2 REPAIR OF THE WORK

A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.

B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.

1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that that already show evidence of repair or restoration.

    a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.

3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.

END OF SECTION 017700

SECTION 017839
PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

1. Record Drawings.
2. Record Specifications.
3. Record Product Data.

B. Related Requirements:
1. Section 017300 "Execution" for final property survey.
2. Section 017700 "Closeout Procedures" for general closeout procedures.

1.3 CLOSEOUT SUBMITTALS

A. Record Drawings: Comply with the following:

1. Number of Copies: Submit one set of marked-up record prints.
2. Number of Copies: Submit copies of record Drawings as follows:

a. Initial Submittal:

1) Submit one paper-copy set(s) of marked-up record prints.
2) Submit PDF electronic files of scanned record prints and one of file prints.
3) Submit record digital data files and one set of plots.
4) Architect will indicate whether general scope of changes, additional information recorded, and quality of drafting are acceptable.

b. Final Submittal:

1) Submit three paper-copy sets of marked-up record prints.
2) Submit PDF electronic files of scanned record prints and three sets of prints.
3) Print each drawing, whether or not changes and additional information were recorded.

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

C. Record Product Data: Submit one paper copy and PDF electronic files and directories of each submittal.

1. Where record Product Data are required as part of operation and maintenance manuals, submit duplicate marked-up Product Data as a component of manual.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS

A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings, incorporating new and revised drawings as modifications are issued.

1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.

a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
b. Accurately record information in an acceptable drawing technique.
c. Record data as soon as possible after obtaining it.

2. Mark the Contract Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
3. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
4. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.

B. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.

1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
2. Format: Annotated PDF electronic file with comment function enabled.
3. Identification: As follows:

a. Project name.
b. Date.
c. Designation "PROJECT RECORD DRAWINGS."
d. Name of Architect.
e. Name of Contractor.

2.2 RECORD SPECIFICATIONS

A. Preparation: Mark Specifications to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
4. Note related Change Orders, record Product Data, and record Drawings where applicable.

B. Format: Submit record Specifications as scanned PDF electronic file(s) of marked-up paper copy of Specifications.

2.3 RECORD PRODUCT DATA

A. Preparation: Mark Product Data to indicate the actual product installation where installation varies substantially from that indicated in Product Data submittal.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
2. Include significant changes in the product delivered to Project site and changes in manufacturer's written instructions for installation.
3. Note related Change Orders, record Specifications, and record Drawings where applicable.

B. Format: Submit record Product Data as annotated PDF electronic file and paper copy.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

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

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

END OF SECTION 017839

SECTION 02220
BUILDING DEMOLITION

1. GENERAL

1.01. SUMMARY

A. Work Included in This Section Features:

1. Demolition of designated structures.
2. Removal of items in danger of collapse.
3. Demolition of site improvements as noted on drawings.
4. Disconnecting and capping utilities to remain in place.
5. Removal of designated utility lines.
6. Demolition of below-grade foundations, footings and floor slabs.
7. Shoring**,** bracing**,** etc. of structures to remain.
8. Removal of demolished materials from site
9. Filling of voids left by below-grade demolition.

B. Pollution control during building demolition**,** including noise control.

1. Pest extermination.

C. Related Work Specified in Other Sections:

1. Filling of voids left by below-grade demolition ..... Section 02310.
2. Site clearing outside the periphery of existing structures ..... Section 02310.
3. Removal of vehicular pavements..... Section 02310.

D. Asbestos and hazardous materials demolition and removal work is not a part of the contract and will be performed by a Licensed State of Illinois Asbestos Abatement Contractor as listed under Section 01500 – ***Special Requirements***.

1.02. REGULATORY REQUIREMENTS

A. Comply with all current requirements, rules and regulations of the City of Rockford, IL, Winnebago County, other regulatory governments having juristiction and local utility companies including, but not limited to, the following.

1. State and Federal guidelines.
2. Applicable EPA Regulations.
3. Applicable NESHAPS Regulations.

4. Applicable IDPH Regulations.

5. Applicable OSHA Regulations.

B. All waste shall be land filled at an EPA approved landfill in accordance with EPA and IDOT Regulations.

1.03. QUALITY ASSURANCE

A. Exterminator's Qualifications: Company shall be licensed by the IL Dept. of Health and shall have at least 10 years of satisfactory experience in the kind of work described. Submit names and addresses of at least 5 business concerns for whom similar services have been performed by the company within the past year.

B. Comply with governing codes and regulations.

C. Use experienced workers.

1.04. SUBMITTALS

A. Make submittals per requirements of Section 01300 – ***Submittals***.

B. Submit schedule indicating proposed sequence of operations. Include coordination for shutoff**,** capping and continuation of utility services as required**,** together with details for dust and noise control.

C. Submit plan for pest extermination.

D. Submit record documents.

E. Submit copies of all permits and governmental authorizations required.

1.05. PROTECTION OF PUBLIC AND PROPERTY

A. Provide all measures required by federal**,** municipal and state ordinances**,** laws**,** and regulations for the protection of surrounding property**,** sidewalks designated to remain**,** pavement designated to remain, curbs designated to remain**,** the public**,** and workmen during demolition operations.

B. The measures taken**,** including any sidewalk sheds required**,** barricades**,** fences**,** warning lights and signs**,** rubbish chutes**,** etc.**,** shall also comply with ANSI A 10.6**, "**Code for Building Construction.**"**

C. Demolition work shall not interfere with use of adjacent properties except as specifically permitted.

D. Take every precaution to guard against movement or settlement of adjacent buildings**,** structures**,** sidewalks and pavements. Provide all necessary bracing and shoring. Protect ground water levels in adjacent properties from changes due to demolition procedures. Contractor shall be solely and entirely responsible for complete safety of adjacent construction.

E. Protect street pavements, trees and planting, on or off the premises, and repair, replace or otherwise make good all damage.

F. Ensure safe passage of persons around area of demolition. Conduct operations to prevent injury to adjacent buildings, structures, other facilities, and persons.

1.06. SPECIAL HAZARDS

A. Removal of asbestos products shall only be done in accordance with State and Federal guidelines, applicable EPA, NESHAPS, IDPH AND OSHA Regulations and by State approved asbestos removal contractor hired by the Owner.

B. Disposal of PCB containing ballasts and mercury containing lamps shall be processed in accordance with Toxic Substances Control Act (TSCA) 1976.

C. Confirm the initial reports of discovery in writing to Owner and Architect within 24 hours.

D. Any chemical wastes discovered during excavation work, either in containers or visible in the soils, shall be immediately reported to the Owner and Architect, and procedures as specified above for asbestos shall be instituted.

1.07. EXISTING CONDITIONS

A. Examine existing buildings and site and surrounding areas thoroughly and fully as to all difficulties that may be encountered in complete execution of the work, including conditions, accessibility and storage space affecting this Section of the work. Investigate means of approach to site.

B. Inspect, test and probe to determine existing conditioning to determine what procedures will be required to protect adjacent structures to remain.

C. Prior to demolition, examine the piping cavity wall to determine if asbestos products are contained therein: If so, notify the Owner who will notify the asbestos abatement Contractor so that such material is properly disposed of prior to demolition work activity.

1.08. UTILITY SERVICES

A. Inspect public utility records for locations of underground utilities.

B. Maintain and keep in service existing utilities unless indicated to be removed. Protect against damage.

C. Before demolishing electrical wiring, gas or water pipes, conduit and similar items, notify City Departments having jurisdiction, and Utility Companies to verify that these items are out of service and can be removed without danger; and obtain written authorization to perform demolition.

D. Notify electrical utility company, prior to the start of demolition, of their need to remove the existing exterior transformer (s). Coordinate removal schedule with the electrical utility company to avoid any delay in the building demolition schedule.

E. Disconnect and seal indicated utilities before starting demolition operations, in accordance with local codes and regulations of authorities having jurisdiction.

F. Report to Architect any underground utilities encountered which were not indicated on city records.

1.09. JOB CONDITIONS

A. Notice, Permits, Laws, Etc.:

1. Contractor shall take out and pay for all permits required.

2. Notify the Owner, Utility Companies, and all other parties who may be interested or involved, as required by law before starting demolition work.

B. Perform or refrain from performing all acts necessary to protect the Owner from any action or liability whatsoever resulting from this operation.

C. Traffic:

1. Conduct demolition operations and removal of debris to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities.

2. Do not close or obstruct streets, walks or other occupied or used facilities without permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

D. Recycling Existing Materials: The Owner requests that Contractors recycle materials on this project whenever possible including but not limited to:

1. Concrete: Bidders may choose to grind concrete and utilize as fill below future parking lots grinding to appropriate size.

2. Brick & Concrete block: Bidders may choose to grind brick and concrete or structural block and utilize as fill below future parking lots grinding to appropriate size.

3. Asphalt pavement: Bidders may choose to grind existing asphalt and utilize as fill below future parking lots grinding to appropriate size.

E. Recycled Materials

Crushed concrete from the construction site may be used as fill on the site under the proposed paved areas. Crushed brick from the site may be used in areas of proposed landscaping and left 2 feet below final grade.
No crushed rock material shall be placed in the structural area adjacent to paved areas. This area shall be considered structural at a 1:1 slope from the edge of pavement down and away from paved areas.

No pieces of concrete greater than 3 inches shall be placed within 1 foot of the sub-grade elevation.

F. Compaction

Each lift of the fill material shall be disked sufficiently to break down oversized clods, mix the different materials, secure a uniform moisture content, and ensure uniform density and compaction. Disking may be omitted if the fill material consists of sand or gravel.

If the fill is less than 1 1/2 ft (450 mm), all lifts shall be compacted to not less than 95 percent of the standard laboratory density. If the fill height is between 1 1/2 ft and 3 ft (450 mm and 900 mm) inclusive, the first lift shall be compacted to not less than 90 percent, and the balance to a minimum of 95 percent of the standard laboratory density. If the fill exceeds 3 ft (900 mm) in height, the lower 1/3 of the fill, but not to exceed the lower 2 ft (600 mm), shall be compacted in a manner that will yield a minimum of 90 percent of standard laboratory density to the uppermost lift of that portion of the fill. The next 1 ft (300 mm) of fill shall be compacted to not less than 93 percent, and the balance of the fill compacted to not less than 95 percent of the standard laboratory density.

The top 2 ft (600 mm) of all fills shall not contain more than 120 percent of the optimum moisture determined according to AASHTO T 99 (Method C). The Contractor will be permitted the use of an approved additive to effect a quicker drying time. The standard laboratory density shall be the maximum dry density determined according to AASHTO T 99 (Method C). A coarse particle correction according to AASHTO T 224 shall be used.

The dry density of the compacted fill will be determined by the Engineer at regular intervals according to AASHTO T 191, Illinois methods approved by the Engineer.

The fill shall be sprinkled with water when it is necessary to increase the moisture content of the soil to permit the embankment to be constructed to the densities indicated above.

Compacting equipment and compacting operations shall be coordinated with the rate of placing fill so that the required density is obtained.

Special care shall be exercised in compacting fill adjacent to structures and in sharp depressions. Where such areas are inaccessible to the compacting equipment being used, the material shall be placed in 8 in. (200 mm) horizontal lifts and uniformly compacted with suitable mechanical equipment. Fills placed adjacent to a structure shall not contain more than 110 percent of the optimum moisture determined according to AASHTO T 99 (Method C).

2. PRODUCTS

2.01. MATERIALS

Materials and equipment used for exterminating pests shall comply in all respects with rules and regulations of local Department of Health, as well as laws, ordinances and regulations of State and Federal agencies.

2.02. PEST CONTROL

A. Exterminate rats**,** mice**,** cockroaches and water beetles from existing structures and surrounding ground areas throughout the course of demolition work.

B. Prior to beginning of any demolition, establish a means of containing pests within the site area to prevent them from moving to adjacent properties.

C. Post in prominent locations adequate warning signs for protection of public and as required by the regulating agencies.

D. Inspect and treat affected areas on a set day once each week during regular work day hours (Monday through Friday). Provide emergency service during regular work day hours, within 24 hours, if requested by Owner or Architect.

E. Include all structures within the boundary lines of the site, as well as shanties, temporary toilets, and field office trailers.

2.03. UTILITIES

A. Remove mechanical and electrical items using workmen qualified in each trade.

B. Disconnect, remove, and cap existing utility lines within demolition areas.

C. Plug abandoned sewer lines solid with concrete. Trace lines, if possible, to manhole and plug at point of discharge. If this is not possible, excavate to curb line and plug solid a minimum of 10ft toward point of discharge, subject to City approval.

D. Mark location of disconnected utilities. Identify utilities with metal tags and indicate capping locations on Project Record Documents.

2.04. SALVAGING AND SAVING

A. All demolished materials and equipment shall become the Contractor's property and are to be removed from the site. Any items of value designated for removal may be sold for cash, to the contractor's benefit. Sale of items at project site is prohibited.

B. Items to be Protected During Demolition:

1. Designated site improvements, trees, and plantings.

2.05. BELOW-GRADE DEMOLITION

A. Any footings, foundations or foundation walls under slab on grade construction shall be demolished and removed from site.

B. Any footings, foundations or foundation walls serving basement floors including basement floors shall be demolished and may remain such that no individual piece of material exceeds one square foot in size.

C. Use satisfactory soil materials, as specified in Section 02310, consisting of stone, gravel, and sand, free from debris, trash, frozen materials, roots and other organic matter.

D. Prior to placement of fill materials, ensure that areas to be filled are free of standing water, frost, frozen materials, trash, and debris.

E. Place fill materials in horizontal layers not exceeding 6" in loose depth. Compact each layer at optimum moisture content of fill material to a density equal to original adjacent ground.

F. After fill placement and compaction**,** grade surface to meet adjacent contours and to provide flow to surface drainage structures.

2.06. DEMOLITION OF STRUCTURES

A. Demolish indicated structures and appurtenances in an orderly and careful manner. Use no explosives.

B. Methods of demolishing partitions**,** roofs**,** walls**,** etc. shall be approved by authorities having jurisdiction.

C. Cease operations and notify Architect immediately if cracks and other signs indicate that an adjacent structure appears to be endangered. Do not resume operations until corrective measures have been taken.

D. Materials shall not be dropped or thrown from upper levels**,** but shall be lowered by means of hoists or rubbish chutes.

E. Foundation Walls, Footings and Slabs: See 2.05.A and 2.05.B.

F. Steel Framing: Remove members individually.

G. Concrete Framing and Masonry: Remove in small sections except as approved otherwise by Architect.

H. Windows: Remove window glass from premises with window sash and frames.

I. Dewatering: Maintain below-grade areas free of gravel water**,** rains and surface drainage. Accumulations of water will not be allowed at any time.

2.07. REMOVAL AND DISPOSAL

A. Remove from site and legally dispose of all debris**,** rubbish and other unwanted materials resulting from demolition operations. Remove demolished materials from site as work progresses.

B. Dispose of demolished materials only in manner and place approved by authorities governing the disposal sites. Computers to be removed by Contractor may, at Contractor's option and expense, dispose as follows:

1. In accordance with pertinent laws and regulations at sanctioned landfills or;

2. Recycle in accordance with Illinois Recycling Association's means for recycling electronic items (www.illinoisrcycles.org).

C. Promptly remove and dispose of contaminated**,** vermin infested materials.

D. Do not burn or bury materials on site.

E. Remove concrete slabs on grade.

F. Remove top 6” of soil around building to remove all broken glass.

G. Trucks used in hauling debris shall be equipped with tarpaulins to cover the loads and shall not be loaded so excessively as to spill debris on streets.

H. Routes of equipment handling debris shall be approved by City and County and State authorities as required and such routes shall be strictly adhered to.

I. Keep work sprinkled to minimize dust.

2.08. CLEAN UP

A. Leave site in clean condition**,** free of all apparatus**,** waste and temporary structures.

END 02220

SECTION 02310
EARTHWORK and SEEDING

1. GENERAL

1.01. SUMMARY

A. Work Included in this Section Features:

1. Protection of lawn, trees and shrubs designated to remain.
2. Protection of undeveloped land from excessive degradation.
3. Rough grading.
4. Provision of granular materials from offsite.
5. Filling, backfilling and compaction of fills including voids left by below-grade demolition.
6. Removal of excess excavated materials.
7. Topsoil and seeding.

B. Related Work Specified in Other Sections:

1. Building demolition, except as specified herein..... Section 02220.

1.02. QUALITY ASSURANCE

A. Lines and Levels: The Contractor shall be solely responsible for execution of work to the lines and levels shown on the Drawings or as noted on the Site Plan.

B. Laws and Regulations:

1. Comply with all local, county and state laws, rules, codes, and regulations that may affect this site work.
2. Comply with OSHA 29CFR, Part 1926, Subpart P, **"**Excavations and Trenches**"** and its appendices.

C. Soil Testing and Inspection Service:

1. The Owner will engage the services of an independent soils testing service, approved by Architect, to test soil materials proposed for use in the Work (area of the demolition building footprint).
2. Costs for the first testing of an area shall be paid for by the Owner. All testing required for checking and correcting faulty work or work to be re-done shall be paid for by the Contractor at his own expense.
3. Services shall include:
    a. Observation of proof rolling.

b. Tests for maximum dry density of compacted fill materials.

c. In-place field dry density tests for every 2,500 square feet of area of each layer of compacted subgrade fill of the demolished building foot print as directed by the Architect.

d. If compaction is found to be unsatisfactory, extra in-place field dry density tests to determine the extent of recompaction work required.

1.03. SUBMITTALS

A. Process all submittals per requirements in Section 01300 – ***Submittals***.

B. Samples: Submit to Soil Testing Service Company, 50-pound representative samples of each proposed fill material at least 2 days prior to start of any filling operation.

C. Test Reports: Soil Testing Service Company shall submit 2 copies of all test reports to Architect.

1.04. JOB CONDITIONS

A. Site Information and Working Conditions: Excavation contractor shall visit site prior to submitting his bid in order to determine existing conditions under which he will be obliged to operate and the extent of site preparation work required.

B. Filling, backfilling and compaction of voids left by below-grade demolition shall use materials described in Section 02220, 1.09.D and E, recycled materials, or materials in Sections 2 and 3 below.

C. The Contractor shall not place any fill in landscaped areas above 2 feet below the finish grade in areas of proposed landscaping and shall not place any fill above 1.25 feet below finish pavement in proposed paved areas.

D. Existing Utilities:

1. Locate existing underground utilities in areas of the work before starting earthwork operations. Contact Joint Utility Locating Information for Excavators (J.U.L.I.E.) at 800-892-0123.

2. Notify utility companies to remove and relocate their lines that are indicated to remain in service and are in the way of the Work. Other existing utility lines indicated to remain, which pass thru areas of the Work, shall be maintained, rerouted or extended as required.

3. Protect those utilities to remain in place during earthwork operations.

4. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, consult the Architect immediately as to how to proceed.

5. Do not interrupt existing utilities serving facilities occupied or used by Owner or others, except when permitted in writing by Architect and then only after acceptable temporary utility services have been arranged.

6. Demolish and completely remove from the site underground utilities indicated to be removed. Coordinate with local utility companies for shut-off and capping or sealing of services if lines are active. Capped lines shall be so identified at grade.

E. Explosives: The use of explosives will not be permitted.

1.05. PROTECTION OF PERSONS AND PROPERTY

A. NPDES Storm Water Permit: When earthwork may produce disturbances requiring compliance with a National Pollutant Discharge Elimination System (NPDES) Storm Water Permit, the Excavation Contractor shall develop a storm water pollution control plan with cooperation of Owner (permittee), using good engineering practices.

1. The plan, when so required, shall identify potential sources of pollution that may be reasonably expected to affect the quality of storm water discharge.

2. The plan shall describe practices to reduce pollutants.

3. The plan shall provide means to ensure that the anti-pollution practices will be implemented and the terms of the permit met.

4. The Contractor and subcontractors involved in earthwork shall certify that they understand and will comply with all requirements of the permit.

5. A copy of the permit and the certifications shall be kept on-site for inspection upon request.

B. Open Excavations: Barricade and post with warning lights. Operate warning lights during hours from dusk to dawn each day and as otherwise required.

C. Landscaping: Protect trees, shrubs, lawn areas and other features remaining as part of final landscaping.

D. Archaeological and paleontological artifacts discovered shall remain the property of the Owner and shall be preserved intact. Notice shall be given to the Owner and Architect immediately upon discovery of any item that might qualify.

1.06. BRACING, SHEETING AND SHORING

A. General: Provide bracing, sheeting and shoring for the sides of excavations as necessary to prevent movement or settlement of adjacent structures, utilities, roads, streets and sidewalks, etc. The cost of all bracing, sheeting and shoring required shall be deemed to have been included as part of the Contract Sum.

B. Contractor's Responsibility: The Contractor shall be entirely responsible for the strength and adequacy of all such bracing, sheeting and shoring, and is liable for any damage or injury caused by or resulting from improperly supported soils and structures. He shall, if required, submit fully detailed Shop Drawings for review prior to placement; however, such review shall not diminish the Contractor’s responsibilities in any way.

C. Notifications to Adjacent Property Owners: The Contractor shall issue any notices to owners of adjoining property that may be required by any pertinent laws or ordinances. Furnish copies of such notices to Architect.

D. Adjacent Structures, Utilities, etc.: If the safety of any adjacent structures, utilities, etc., should appear to be endangered, take all proper means to support such embankments, structures, utilities, etc., and notify Architect. Do not resume operation without Architect's permission. Also, provide and place bracing and shoring ordered by Architect when necessary to safeguard adjacent buildings, etc. If the Contractor fails to comply promptly when so ordered, the required bracing and shoring may be placed by order of Architect at Contractor's expense. Any such action shall not relieve the Contractor of responsibility for the bracing and shoring or liability for damage.

2. PRODUCTS

2.01. SOIL MATERIALS

A. Fill Materials: Fill material shall be obtained from offsite borrow pits approved by Architect.

1. Fill to within 6" of Topsoil (Finish Grade): Granular material of friable earth, or clay of low plasticity, tested by testing laboratory and approved by Architect.

3. EXECUTION

3.01. FILLING AND COMPACTION

A. General:

1. Subgrade Approval: Subgrades shall be approved by soils testing service just prior to placement of fills.
    a. Should subgrade become frozen, desiccated, saturated or disturbed, remove the affected material, or scarify, adjust the moisture condition and recompact the affected materials.
    b. Notify soils testing service well ahead of when excavations are scheduled to reach subgrade elevations required.
2. Debris: Completely remove from excavations before backfilling.
3. Water-Free and Unfrozen Ground: No fill to be compacted shall be placed in free water, or on frozen ground.
4. Soil Hydration: Manipulate and wet the fill materials as required to obtain a uniform moisture content throughout.
    a. Cohesive soils shall be placed at moisture contents of -1% to +3% per Standard Proctor Method (ASTM D 698). Granular fills shall be placed within 3% of the material's optimum moisture content.
    b. Mix lean to fat clays with lower plasticity clays and/or hydrated lime or lime byproduct materials as necessary to achieve required compaction values.

B. Placing Fill to be Compacted:

1. Placement:

a. Place fill material in layers of 8" or less in loose thickness, starting in the deepest area and progressing approximately parallel to the finished grade.

b. Fill shall be placed to within 4" to the top of the future topsoil finish grade.

2. Testing Between Layers: Compaction of each layer shall be tested as specified. Obtain soil testing service's approval before next layer of fill is started.

C. Compaction Procedures:

1. Timing: Compact the soils immediately after placement, while they retain their optimum moisture content; otherwise, manipulate and wet the soil as required to obtain the required moisture content uniformly throughout.

2. Weather Conditions: Suspend compaction operations when proper results cannot be obtained because of rain or soggy conditions, or when other conditions are, in the Architect's opinion, unsatisfactory.

3. Equipment: Compact with vibratory compaction and/or rolling equipment to the specified densities. Compaction by travel of grading equipment will not be considered adequate. Use small vibratory or hand tamping compactors whenever fill is placed adjacent to walls or around footings and columns.

4. Each Layer of Fill to be compacted: Compact all across surface of each layer to the required density before allowing additional fill to be placed.

5. Recompaction: If compaction is found to be unsatisfactory, recompact until required density is achieved.

D. Compaction Densities:

1. Fills: 90% of maximum density, per Modified Proctor Test (ASTM D 1557).

3.02. ROUGH GRADING

A. General: Uniformly grade new filled areas, including adjacent transition areas, and as otherwise indicated within the limits of demolished building footprint. Include any areas disturbed by construction operations.

1. Leveling and Shaping: Smooth finished surfaces within specified tolerances, with uniform levels of slopes between points where elevations are shown, or between such points and existing grades.

2. Degree of Finish Required: That ordinarily obtainable from either blade-grader or scraper operations.

B. Finish the areas to receive topsoil to within 0.10' of required subgrade elevations (at least 6" below finish grade) after compaction, and make free from irregular surface changes.

3.03. TOPSOIL PLACEMENT, FINISH GRADING AND SEEDING

A. Lawn establishment

a. Contractor to provide a minimum 6" of topsoil suitable for turf growth in all areas to be seeded. Areas not capable of growing turf shall receive topsoil and other amendments as necessary.

b. Lawn Seed: Fresh clean and new crop seed mixture. Seed mix shall be 80% to 100% germination. District shall be responsible for achieving uniform growth so that the parcel exhibits 75% uniform growth or shall be reseeded.

c. Seed Type: IDOT Class IB Lawn Mixture. The planting times shall be between April 1st to June 15th and August 1st to November 1st.

d. Rough and fine grade areas removing existing vegetation, construction debris, and stones larger than one-inch in diameter to create a smooth surface in preparation of seeding. The area should slope so the site will drain thus not creating any areas of ponding.

e. Apply a starter fertilizer which contains quick and slow release nitrogen immediately prior to seeding area. Fertilizer is to be 18-25-12, or approved equal, applied at a rate of (one) pound of phosphorus per 1,000 square feet. Apply a second fertilizing with a phosphorus free fertilizer, 15-0-15 or similar, at the rate of (1) pound per 1,000 square feet one month after germination to give a boost to turf during the establishment period.

f. Seed shall be seeded at a rate of no less than 7 pounds per 1,000 square feet.

g. Seed shall be sown with a machine that mechanically places the seed into the top 1/8 inch of topsoil, packs and covers the seed in one continuous operation.

h. Straw Mulch Crimping. After seeding straw mulch shall be crimped or punched into the soil to a depth of (2) inches to (4) inches using a mulch tool or a dull, serrated farm disc that is set straight. Crimping shall not cut the mulch. This method shall be used in flat areas and on slopes no steeper than 3H-IV and only where equipment can be operated safely. Machinery shall be operated on the contour. Straw mulch material shall be applied at a rate of 90 lbs. Per 1,000 square feet.

B. PERFORMANCE

a. All seeding areas will be considered 75% complete for payment after all seed and erosion control structures, if applicable, have been installed.

b. Contractor is responsible for maintenance of turf areas by fertilizing, weeding, mowing, replanting, and other operations as necessary after germination for two mowings. Mow lawn as soon as top growth is tall enough to cut. Repeat mowing to maintain 2-3 inches height without cutting more than one-third of grass height. Remove no more than one-third of grass-leaf growth in initial or subsequent mowings. Do not delay mowing until grass blades bend over and become matted. Do not mow when grass is wet. During this time, there shall be a minimum of one fertilizer application which, as stated above. Site will be assessed for uniform coverage during this period.

c. An acceptable lawn is a healthy, uniform stand, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10-sq. ft. and bare spots not exceeding 6 by 6 inches. Reestablish lawns that do not comply with these requirements and continue maintenance (including mowing) until lawns are satisfactory. Work will be considered 100% complete for payment after completion of second mowing, successful lawn reestablishment as needed, and acceptance of turf by the DISTRICT AND RPD.

Notify Owner before second mowing to assess turf areas for compliance with performance requirements. Maintenance of turf areas will be the responsibility of the contractor up to the date of notification.

3.04. DISPOSAL OF EXCESS AND WASTE MATERIALS

A. General: All excess material shall become the property of the Contractor and shall be legally disposed of off-site at no additional charge to Owner.

B. Hauling: All off-site hauling shall be in tight beds to prevent spilling onto streets or highways. Use drip pans where necessary to prevent spilling. Off-site haul routes shall be approved by the appropriate county and city authorities.

C. Disposal: Legally dispose of all materials removed from the site.

END 02310

PRE-DEMOLITION ASBESTOS IDENTIFICATION REPORT

1. GENERAL

1.01. SUMMARY

A. The Pre-Demolition Identification Report follows and is included for reference only.

Carnow, Conibear & Assoc., Ltd.
Environmental Consulting Services
600 W. Van Buren St., Suite 500, Chicago, IL 60607
t: 312.782.4486 f: 312.782.5145
www.ccaltd.com

CARNOW CONIBEAR

December 7, 2017

Mr. Guy Carynski
Environmental Coordinator
Rockford School District
1907 Kishwaukee Street
Rockford, IL 61104

RE: Pre-demolition Asbestos Inspection Report
Walker Elementary School – 1520 Post Ave., Rockford, Illinois 61103
Carnow Conibear Project No.: A139670099

Dear Mr. Carynski,

Please find the attached summary and results of the pre-demolition asbestos inspection performed by Carnow, Conibear & Assoc., Ltd. (Carnow Conibear) at the above referenced property. The inspection and sampling was performed to determine the presence of asbestos-containing building materials prior to demolition. The assessment and sampling was conducted on September 8, 2017, September 19, 2017, October 17, 2017, and October 26, 2017. Sampling was conducted by Carnow Conibear representatives Mr. Daniel Juneau, Mr. Douglas McCormick, and Mr. Evan Christian; all licensed by the Illinois Department of Public Health (IDPH) as Asbestos Building Inspectors.

CEI Labs (CEI) performed all related asbestos sample analysis. Analysis was completed by Polarized Light Microscopy (PLM) at 400x magnification. PLM is the EPA recommended laboratory method for the identification of asbestos in bulk building materials. CEI is accredited for asbestos bulk sample analysis by PLM through NIST's National Voluntary Laboratory Accreditation Program (NVLAP).

The results of the sampling are presented in the following tables.

Table I
Asbestos Sample Results – Original Building
Rockford Public Schools – Walker Elementary School
1520 Post Ave., Rockford, IL 61103

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DJ090717-01 thru 07	Hard Coat Wall Plaster	Throughout Original Construction	Asbestos Not Detected	No Action Required prior to Demolition

Table I
Asbestos Sample Results – Original Building
Rockford Public Schools – Walker Elementary School
1520 Post Ave., Rockford, IL 61103

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DJ090717-08 thru 10	1'x1' White Ceiling Tile – Line Groove	Main Floor	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-11 thru 13	Brown Adhesive associated with 1'x1' White Ceiling Tile – Line Groove	Main Floor	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-14 thru 16	2'x4' White Ceiling Tile - Fissured	Main Floor – Storage Room	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-17 thru 19	1'x1' White Ceiling Tile - Fissured	Various Areas Throughout Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-20 thru 22	Brown Adhesive associated with 1'x1' White Ceiling Tile - Fissured	Various Areas Throughout Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-23 thru 25	12"x12" Dark Brown Floor Tile	3rd Floor Faculty Restroom	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-26 thru 28	Brown Adhesive associated with 12"x12" Dark Brown Floor Tile	3rd Floor Faculty Restroom	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-29 thru 31	Carpet Mastic	Various Areas Throughout Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-32 thru 34	Drywall	Throughout Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-35 thru 37	Drywall Joint Compound	Throughout Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-38 thru 40	Chalkboard Adhesive	Classrooms Throughout Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-41 thru 43	Bulletin Board Backing	Various Areas Throughout Building	Asbestos Not Detected	No Action Required prior to Demolition

Table I
Asbestos Sample Results – Original Building
Rockford Public Schools – Walker Elementary School
1520 Post Ave., Rockford, IL 61103

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DJ090717-44 thru 46	Bulletin Board Adhesive	Various Areas Throughout Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-47 thru 49	Terrazzo	Various Areas Throughout Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-50 thru 52	**Aircell Type Pipe Insulation**	**Various Areas**	**65% Chrysotile Asbestos**	**Removal/Abatement prior to Demolition**
DJ090717-53 thru 55	**Mag-type Pipe Insulation**	**Various Areas**	**15% Chrysotile Asbestos**	**Removal/Abatement prior to Demolition**
DJ090717-56 thru 58	Generator Exhaust Insulation	Boiler Room	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-59 thru 61	**Hot Water Tank Flue Pipe**	**Boiler Room**	**15% Chrysotile Asbestos, 5% Crocidolite**	**Removal/Abatement prior to Demolition**
DJ090717-62	Boiler Gaskets	Boiler Room	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-63 thru 65	**HVAC Vibration Collars**	**Original Building Attic**	**65% Chrysotile Asbestos**	**Removal/Abatement prior to Demolition**
DJ090717-66 thru 68	Window Caulk	Building Exterior	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-69	Cardboard Backing behind Bulletin Boards	Various Areas	Asbestos Not Detected	No Action Required prior to Demolition
DJ090717-70	Black Plaster Skim Coat behind Chalk Boards	Various Areas	Asbestos Not Detected	No Action Required prior to Demolition
DJ101717-01 thru 03	Asphalt Roofing Field Area	Original Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ101717-04 thru 06	Asphalt Roof Perimeter Flashing	Original Building	Asbestos Not Detected	No Action Required prior to Demolition

Table II
Asbestos Sample Results – Gymnasium Building
Rockford Public Schools – Walker Elementary School
1520 Post Ave., Rockford, IL 61103

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DJ091917-01A thru 07A	Fireproofing	Structural Beams and	Asbestos Not Detected	No Action Required prior to Demolition
DJ091917-08A thru 10A	Layered Paper Material beneath Gymnasium Flooring	Gymnasium	Asbestos Not Detected	No Action Required prior to Demolition
DJ101717-01A thru 03A	**Textured Ceiling Plaster**	**Food Service Room and Stairwells**	**3% Chrysotile Asbestos**	**Removal/Abatement prior to Demolition**
DJ101717-04A thru 06A	12"x12" White Floor Tile	Food Service Room	Asbestos Not Detected	No Action Required prior to Demolition
DJ101717-07A thru 09A	Brown Mastic beneath 12"x12" White Floor Tile	Food Service Room	Asbestos Not Detected	No Action Required prior to Demolition
DJ101717-10A thru 12A	**Brown Floor Tile beneath 12"x12" White Floor Tile**	**Food Service Room**	**10% Chrysotile Asbestos**	**Removal/Abatement prior to Demolition**
DJ101717-13A thru 15A	Black Mastic beneath Brown Floor Tile	Food Service	Asbestos Not Detected	No Action Required prior to Demolition
DJ102617-01 thru 05	Textured Ceiling Plaster	Vestibules, Stage Areas, Stair Area	Asbestos Not Detected	No Action Required prior to Demolition
DJ102617-06 thru 08	Gypsum Ceiling Deck	Gymnasium	Asbestos Not Detected	No Action Required prior to Demolition
DJ102617-09 thru 11	Exterior Soffit Plaster	Building Entrances	Asbestos Not Detected	No Action Required prior to Demolition
DJ102617-12 thru 14	Roof Field	Gymnasium Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ102617-15 thru 17	Roof Flashing	Gymnasium Building	Asbestos Not Detected	No Action Required prior to Demolition
DJ102617-18 thru 20	Gray Membrane Coating over Roofing	Gymnasium Building	Asbestos Not Detected	No Action Required prior to Demolition

Table III
Asbestos Sample Results – Addition Building
Rockford Public Schools – Walker Elementary School
1520 Post Ave., Rockford, IL 61103

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DM091917-01 thru 03	**12"x12" Dark Brown Floor Tile**	**1st and 2nd Floors**	**5% Chrysotile Asbestos**	**Removal/Abatement prior to Demolition**
DM091917-04 thru 06	**Black Mastic beneath 12"x12" Dark Brown Floor Tile**	**1st and 2nd Floors**	**5% Chrysotile Asbestos**	**Removal/Abatement prior to Demolition**
DM091917-07 thru 09	12"x12" Brown Mottled Floor Tile	1st Floor	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-10 thru 12	**Black/Yellow Mastic beneath 12"x12" Brown Mottled Floor Tile**	**1st Floor**	**5% Chrysotile Asbestos**	**Removal/Abatement prior to Demolition**
DM091917-13 thru 15	12"x12" Light Brown Floor Tile	1st Floor, Kindergarten Rooms, Entry	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-16 thru 18	Brown Mastic beneath 12"x12" Light Brown Floor Tile	1st Floor, Kindergarten Rooms, Entry	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-19 thru 21	2'x4' Suspended Ceiling Tile – White Fissured with Dots	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-22 thru 24	2'x4' Suspended Ceiling Tile – Large Fissured	1st Floor Storage Room	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-25 thru 27	Black Vinyl Baseboard	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-28 thru 30	Adhesive for Black Vinyl Baseboards	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-31 thru 33	HVAC Duct Seam Tape/Sealant	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-34 thru 36	Pipe Joint Insulation	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-37 thru 39	Light Brown Wallboard Construction Adhesive	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition

Table III
Asbestos Sample Results – Addition Building
Rockford Public Schools – Walker Elementary School
1520 Post Ave., Rockford, IL 61103

SAMPLE NO.	MATERIAL	GENERAL LOCATIONS	ASBESTOS SAMPLE RESULT	COMMENTS
DM091917-40 thru 42	Carpet Adhesive	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-43 thru 45	Roof Drain Pipe Joint Insulation	2nd Floor	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-46 thru 48	2'x4' Suspended Ceiling Tile	2nd Floor	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-49 thru 51	Textured Cement Ceiling Plaster	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-52 thru 54	Drywall Substrate for Textured Cement Ceiling Plaster	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-55 thru 57	Drywall	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-58 thru 60	Drywall Joint Compound	1st and 2nd Floors	Asbestos Not Detected	No Action Required prior to Demolition
DM091917-61 thru 63	**Black Spray Undercoating on Sinks**	**1st and 2nd Floors**	**2% Chrysotile Asbestos**	**Removal/Abatement prior to Demolition**
EC102617-01 thru 03	Roof Field	Addition Roof	Asbestos Not Detected	No Action Required prior to Demolition
EC102617-04 thru 06	Roof Flashing	Addition Roof	Asbestos Not Detected	No Action Required prior to Demolition
EC102617-07 thru 09	Exterior Soffit Plaster	Exterior Soffit	Asbestos Not Detected	No Action Required prior to Demolition

Based on the results of the inspections and sampling Carnow Conibear recommends the following prior to demolition at Walker Elementary School located at 1520 Post Avenue, Rockford, Illinois 61103.

CARNOW CONIBEAR

- **Asbestos Abatement** - Removal and disposal of all identified asbestos containing materials per applicable EPA and OSHA asbestos regulations. Abatement by Illinois Licensed Asbestos Abatement Contractor.

See Attachment A for laboratory reports and sample chain of custody documentation and Attachment B for Inspector License and Current Accreditation.

Please feel free to contact me directly at 312.762.2935 or djuneau@ccaltd.com should you have any questions or require any additional information.

Sincerely,

CARNOW, CONIBEAR & ASSOC., LTD.

Evan Christian
Field Supervisor
Licensed Asbestos Inspector

ATTACHMENT A

CARNOW
CONIBEAR

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: RPS 205 - Walker Original Bldg.; A139670099

CEI LAB CODE: A17-12855

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 09/12/17

TOTAL SAMPLES ANALYZED: 70

SAMPLES >1% ASBESTOS: 12

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: RPS 205 - Walker Original Bldg.; A139670099

CEI LAB CODE: A17-12855

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ090717-01	Layer 1	A2492342	Gray	Plaster Skim Coat	None Detected
	Layer 2	A2492342	Gray	Plaster Base Coat	None Detected
DJ090717-02	Layer 1	A2492343	Gray	Plaster Skim Coat	None Detected
	Layer 2	A2492343	Gray	Plaster Base Coat	None Detected
DJ090717-03	Layer 1	A2492344	Gray	Plaster Skim Coat	None Detected
	Layer 2	A2492344	Gray	Plaster Base Coat	None Detected
DJ090717-04	Layer 1	A2492345	Gray	Plaster Skim Coat	None Detected
	Layer 2	A2492345	Gray	Plaster Base Coat	None Detected
DJ090717-05	Layer 1	A2492346	Gray	Plaster Skim Coat	None Detected
	Layer 2	A2492346	Gray	Plaster Base Coat	None Detected
DJ090717-06	Layer 1	A2492347	Gray	Plaster Skim Coat	None Detected
	Layer 2	A2492347	Gray	Plaster Base Coat	None Detected
DJ090717-07	Layer 1	A2492348	Gray	Plaster Skim Coat	None Detected
	Layer 2	A2492348	Gray	Plaster Base Coat	None Detected
DJ090717-08		A2492349	White,Brown	Ceiling Tile	None Detected
DJ090717-09		A2492350	White,Brown	Ceiling Tile	None Detected
DJ090717-10		A2492351	White,Brown	Ceiling Tile	None Detected
DJ090717-11		**A2492352**	**Brown**	**Adhesive**	None Detected
DJ090717-12		A2492353	Brown	Adhesive	None Detected
DJ090717-13		A2492354	Brown	Adhesive	None Detected
DJ090717-14		A2492355	White,Tan	Ceiling Tile	None Detected
DJ090717-15		A2492356	White,Tan	Ceiling Tile	None Detected
DJ090717-16		A2492357	White,Tan	Ceiling Tile	None Detected
DJ090717-17		A2492358	White,Off-white	Ceiling Tile	None Detected
DJ090717-18		A2492359	White,Off-white	Ceiling Tile	None Detected
DJ090717-19		A2492360	White,Off-white	Ceiling Tile	None Detected
DJ090717-20		A2492361	Brown	Adhesive	None Detected
DJ090717-21		A2492362	Brown	Adhesive	None Detected
DJ090717-22		A2492363	Brown	Adhesive	None Detected
DJ090717-23		A2492364	Brown	Floor Tile	None Detected
DJ090717-24		A2492365	Brown	Floor Tile	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: RPS 205 - Walker Original Bldg.; A139670099

CEI LAB CODE: A17-12855

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ090717-25		A2492366	Brown	Floor Tile	None Detected
DJ090717-26		A2492367	Yellow	Adhesive	None Detected
DJ090717-27		A2492368	Yellow	Adhesive	None Detected
DJ090717-28		A2492369	Yellow	Adhesive	None Detected
DJ090717-29		A2492370	Yellow	Carpet Mastic	None Detected
DJ090717-30		A2492371	Yellow	Carpet Mastic	None Detected
DJ090717-31		A2492372	Yellow	Carpet Mastic	None Detected
DJ090717-32		A2492373	White,Tan	Drywall	None Detected
DJ090717-33		A2492374	White,Tan	Drywall	None Detected
DJ090717-34		A2492375	White,Tan	Drywall	None Detected
DJ090717-35		A2492376	White	Joint Compound	None Detected
DJ090717-36		A2492377	White	Joint Compound	None Detected
DJ090717-37		A2492378	White	Joint Compound	None Detected
DJ090717-38		A2492379	White	Adhesive	None Detected
DJ090717-39		A2492380	White	Adhesive	None Detected
DJ090717-40		A2492381	White	Adhesive	None Detected
DJ090717-41		A2492382	Tan	Backing Material	None Detected
DJ090717-42		A2492383	Tan	Backing Material	None Detected
DJ090717-43		A2492384	Tan	Backing Material	None Detected
DJ090717-44		A2492385	Yellow	Adhesive	None Detected
DJ090717-45		A2492386	Yellow	Adhesive	None Detected
DJ090717-46		A2492387	Yellow	Adhesive	None Detected
DJ090717-47		A2492388	Gray,Red	Terrazzo	None Detected
DJ090717-48		A2492389	Gray,Red	Terrazzo	None Detected
DJ090717-49		A2492390	Gray,Red	Terrazzo	None Detected
DJ090717-50		A2492391	Off-white	Pipe Insulation	Chrysotile 65%
DJ090717-51		A2492392	Off-white	Pipe Insulation	Chrysotile 65%
DJ090717-52		A2492393	Off-white	Pipe Insulation	Chrysotile 15%
DJ090717-53		A2492394	Off-white	Pipe Insulation	Chrysotile 15%
DJ090717-54		A2492395	Off-white	Pipe Insulation	Chrysotile 15%
DJ090717-55		A2492396	Off-white	Pipe Insulation	Chrysotile 15%

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: RPS 205 - Walker Original Bldg.; A139670099

CEI LAB CODE: A17-12855

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ090717-56		A2492397	White	Insulation	None Detected
DJ090717-57		A2492398	White	Insulation	None Detected
DJ090717-58		A2492399	White	Insulation	None Detected
DJ090717-59		A2492400	Gray	Flue Pipe	Chrysotile 15% Crocidolite 5%
DJ090717-60		A2492401	Gray	Flue Pipe	Chrysotile 15% Crocidolite 5%
DJ090717-61		A2492402	Gray	Flue Pipe	Chrysotile 15% Crocidolite 5%
DJ090717-62		A2492403	Yellow,Black	Gasket	None Detected
DJ090717-63		A2492404	White	Vibration Collar	Chrysotile 65%
DJ090717-64		A2492405	White	Vibration Collar	Chrysotile 65%
DJ090717-65		A2492406	White	Vibration Collar	Chrysotile 65%
DJ090717-66		A2492407	Brown,Black	Caulking	None Detected
DJ090717-67		A2492408	Brown,Black	Caulking	None Detected
DJ090717-68		A2492409	Brown,Black	Caulking	None Detected
DJ090717-69		A2492410	Brown	Backing Material	None Detected
DJ090717-70		A2492411	Black	Plaster Skim Coat	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-12855
Date Received: 09-11-17
Date Analyzed: 09-12-17
Date Reported: 09-12-17

Project: RPS 205 - Walker Original Bldg.; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
DJ090717-01	Plaster Skim Coat	Homogeneous		55%	Binder	None Detected
Layer 1		Gray		40%	Silicates	
A2492342		Non-fibrous		5%	Paint	
		Bound				
Layer 2	Plaster Base Coat	Homogeneous		40%	Binder	None Detected
A2492342		Gray		60%	Silicates	
		Non-fibrous				
		Bound				
DJ090717-02	Plaster Skim Coat	Homogeneous		55%	Binder	None Detected
Layer 1		Gray		40%	Silicates	
A2492343		Non-fibrous		5%	Paint	
		Bound				
Layer 2	Plaster Base Coat	Homogeneous		40%	Binder	None Detected
A2492343		Gray		60%	Silicates	
		Non-fibrous				
		Bound				
DJ090717-03	Plaster Skim Coat	Homogeneous		55%	Binder	None Detected
Layer 1		Gray		40%	Silicates	
A2492344		Non-fibrous		5%	Paint	
		Bound				
Layer 2	Plaster Base Coat	Homogeneous		40%	Binder	None Detected
A2492344		Gray		60%	Silicates	
		Non-fibrous				
		Bound				
DJ090717-04	Plaster Skim Coat	Homogeneous		55%	Binder	None Detected
Layer 1		Gray		40%	Silicates	
A2492345		Non-fibrous		5%	Paint	
		Bound				

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-12855
Date Received: 09-11-17
Date Analyzed: 09-12-17
Date Reported: 09-12-17

Project: RPS 205 - Walker Original Bldg.; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
Layer 2 A2492345	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
DJ090717-05 Layer 1 A2492346	Plaster Skim Coat	Homogeneous Gray Non-fibrous Bound		55% 40% 5%	Binder Silicates Paint	None Detected
Layer 2 A2492346	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
DJ090717-06 Layer 1 A2492347	Plaster Skim Coat	Homogeneous Gray Non-fibrous Bound		55% 40% 5%	Binder Silicates Paint	None Detected
Layer 2 A2492347	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
DJ090717-07 Layer 1 A2492348	Plaster Skim Coat	Homogeneous Gray Non-fibrous Bound		55% 40% 5%	Binder Silicates Paint	None Detected
Layer 2 A2492348	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound		40% 60%	Binder Silicates	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-12855
Date Received: 09-11-17
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Date Reported: 09-12-17

Project: RPS 205 - Walker Original Bldg.; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ090717-08 A2492349	Ceiling Tile	Heterogeneous White,Brown Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
DJ090717-09 A2492350	Ceiling Tile	Heterogeneous White,Brown Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
DJ090717-10 A2492351	Ceiling Tile	Heterogeneous White,Brown Fibrous Loosely Bound	95%	Cellulose	5%	Paint	None Detected
DJ090717-11 A2492352	Adhesive	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DJ090717-12 A2492353	Adhesive	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DJ090717-13 A2492354	Adhesive	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DJ090717-14 A2492355	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	5% 5% 10%	Binder Paint Perlite	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-12855
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Date Reported: 09-12-17

Project: RPS 205 - Walker Original Bldg.; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ090717-15 A2492356	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	5% 5% 10%	Binder Paint Perlite	None Detected
DJ090717-16 A2492357	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	5% 5% 10%	Binder Paint Perlite	None Detected
DJ090717-17 A2492358	Ceiling Tile	Heterogeneous White,Off-white Fibrous Loosely Bound	60% 30%	Fiberglass Mineral Wool	5% 5%	Binder Paint	None Detected
DJ090717-18 A2492359	Ceiling Tile	Heterogeneous White,Off-white Fibrous Loosely Bound	60% 30%	Fiberglass Mineral Wool	5% 5%	Binder Paint	None Detected
DJ090717-19 A2492360	Ceiling Tile	Heterogeneous White,Off-white Fibrous Loosely Bound	60% 30%	Fiberglass Mineral Wool	5% 5%	Binder Paint	None Detected
DJ090717-20 A2492361	Adhesive	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DJ090717-21 A2492362	Adhesive	Heterogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
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CEI Lab Code: A17-12855
Date Received: 09-11-17
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Project: RPS 205 - Walker Original Bldg.; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DJ090717-22 A2492363	Adhesive	Heterogeneous Brown Non-fibrous Bound		100% Mastic	None Detected
DJ090717-23 A2492364	Floor Tile	Homogeneous Brown Non-fibrous Bound		100% Vinyl	None Detected
DJ090717-24 A2492365	Floor Tile	Homogeneous Brown Non-fibrous Bound		100% Vinyl	None Detected
DJ090717-25 A2492366	Floor Tile	Homogeneous Brown Non-fibrous Bound		100% Vinyl	None Detected
DJ090717-26 A2492367	Adhesive	Homogeneous Yellow Non-fibrous Bound		100% Mastic	None Detected
DJ090717-27 A2492368	Adhesive	Homogeneous Yellow Non-fibrous Bound		100% Mastic	None Detected
DJ090717-28 A2492369	Adhesive	Homogeneous Yellow Non-fibrous Bound		100% Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
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Chicago, IL 60607

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ090717-29 A2492370	Carpet Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
DJ090717-30 A2492371	Carpet Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
DJ090717-31 A2492372	Carpet Mastic	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
DJ090717-32 A2492373	Drywall	Heterogeneous White,Tan Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
DJ090717-33 A2492374	Drywall	Heterogeneous White,Tan Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
DJ090717-34 A2492375	Drywall	Heterogeneous White,Tan Fibrous Bound	15%	Cellulose	85%	Gypsum	None Detected
DJ090717-35 A2492376	Joint Compound	Homogeneous White Non-fibrous Bound			60% 35% 5%	Binder Calc Carb Paint	None Detected

ASBESTOS BULK ANALYSIS

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Client: Carnow, Conibear & Assoc., Ltd.
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Project: RPS 205 - Walker Original Bldg.; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ090717-36 A2492377	Joint Compound	Homogeneous White Non-fibrous Bound			60% 35% 5%	Binder Calc Carb Paint	None Detected
DJ090717-37 A2492378	Joint Compound	Homogeneous White Non-fibrous Bound			60% 35% 5%	Binder Calc Carb Paint	None Detected
DJ090717-38 A2492379	Adhesive	Homogeneous White Non-fibrous Bound			80% 20%	Binder Calc Carb	None Detected
DJ090717-39 A2492380	Adhesive	Homogeneous White Non-fibrous Bound			80% 20%	Binder Calc Carb	None Detected
DJ090717-40 A2492381	Adhesive	Homogeneous White Non-fibrous Bound			80% 20%	Binder Calc Carb	None Detected
DJ090717-41 A2492382	Backing Material	Heterogeneous Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	10% 10%	Binder Perlite	None Detected
DJ090717-42 A2492383	Backing Material	Heterogeneous Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	10% 10%	Binder Perlite	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
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Chicago, IL 60607

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Project: RPS 205 - Walker Original Bldg.; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ090717-43 A2492384	Backing Material	Heterogeneous Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	10% 10%	Binder Perlite	None Detected
DJ090717-44 A2492385	Adhesive	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
DJ090717-45 A2492386	Adhesive	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
DJ090717-46 A2492387	Adhesive	Homogeneous Yellow Non-fibrous Bound			100%	Mastic	None Detected
DJ090717-47 A2492388	Terrazzo	Homogeneous Gray,Red Non-fibrous Bound			30% 70%	Binder Silicates	None Detected
DJ090717-48 A2492389	Terrazzo	Homogeneous Gray,Red Non-fibrous Bound			30% 70%	Binder Silicates	None Detected
DJ090717-49 A2492390	Terrazzo	Homogeneous Gray,Red Non-fibrous Bound			30% 70%	Binder Silicates	None Detected

ASBESTOS BULK ANALYSIS

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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ090717-50 A2492391	Pipe Insulation	Homogeneous Off-white Fibrous Loosely Bound			35%	Binder	65% Chrysotile
DJ090717-51 A2492392	Pipe Insulation	Homogeneous Off-white Fibrous Loosely Bound			35%	Binder	65% Chrysotile
DJ090717-52 A2492393	Pipe Insulation	Homogeneous Off-white Fibrous Loosely Bound	15%	Cellulose	70%	Binder	15% Chrysotile
DJ090717-53 A2492394	Pipe Insulation	Homogeneous Off-white Fibrous Loosely Bound	15%	Cellulose	70%	Binder	15% Chrysotile
DJ090717-54 A2492395	Pipe Insulation	Homogeneous Off-white Fibrous Loosely Bound	15%	Cellulose	70%	Binder	15% Chrysotile
DJ090717-55 A2492396	Pipe Insulation	Homogeneous Off-white Fibrous Loosely Bound	15%	Cellulose	70%	Binder	15% Chrysotile
DJ090717-56 A2492397	Insulation	Homogeneous White Fibrous Loosely Bound	30%	Cellulose	60% 10%	Binder Vermiculite	None Detected

ASBESTOS BULK ANALYSIS

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Chicago, IL 60607

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Project: RPS 205 - Walker Original Bldg.; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ090717-57 A2492398	Insulation	Homogeneous White Fibrous Loosely Bound	30%	Cellulose	60% 10%	Binder Vermiculite	None Detected
DJ090717-58 A2492399	Insulation	Homogeneous White Fibrous Loosely Bound	30%	Cellulose	60% 10%	Binder Vermiculite	None Detected
DJ090717-59 A2492400	Flue Pipe	Homogeneous Gray Fibrous Bound			80%	Binder	15% Chrysotile 5% Crocidolite
DJ090717-60 A2492401	Flue Pipe	Homogeneous Gray Fibrous Bound			80%	Binder	15% Chrysotile 5% Crocidolite
DJ090717-61 A2492402	Flue Pipe	Homogeneous Gray Fibrous Bound			80%	Binder	15% Chrysotile 5% Crocidolite
DJ090717-62 A2492403	Gasket	Heterogeneous Yellow,Black Fibrous Bound	50%	Fiberglass	25% 25%	Metal Foil Binder	None Detected
DJ090717-63 A2492404	Vibration Collar	Homogeneous White Fibrous Loosely Bound			35%	Binder	65% Chrysotile

ASBESTOS BULK ANALYSIS

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Client: Carnow, Conibear & Assoc., Ltd.
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Chicago, IL 60607

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Project: RPS 205 - Walker Original Bldg.; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ090717-64 A2492405	Vibration Collar	Homogeneous White Fibrous Loosely Bound			35%	Binder	65% Chrysotile
DJ090717-65 A2492406	Vibration Collar	Homogeneous White Fibrous Loosely Bound			35%	Binder	65% Chrysotile
DJ090717-66 A2492407	Caulking	Heterogeneous Brown,Black Non-fibrous Bound			100%	Caulk	None Detected
DJ090717-67 A2492408	Caulking	Heterogeneous Brown,Black Non-fibrous Bound			100%	Caulk	None Detected
DJ090717-68 A2492409	Caulking	Heterogeneous Brown,Black Non-fibrous Bound			100%	Caulk	None Detected
DJ090717-69 A2492410	Backing Material	Homogeneous Brown Fibrous Bound	100%	Cellulose			None Detected
DJ090717-70 A2492411	Plaster Skim Coat	Homogeneous Black Non-fibrous Bound			60% 40%	Binder Silicates	None Detected

CEI LABS

LEGEND:

Non-Anth	= Non-Asbestiform Anthophyllite
Non-Trem	= Non-Asbestiform Tremolite
Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: Megan Fisher

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

(60) A17-12.855
A249 2342
A249 2411

ASBESTOS CHAIN OF CUSTODY

CEI LABS

107 New Edition Court, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #: 27427	Job Contact: Daniel Juneau
Company: CARNOW, CONIBEAR & ASSOC.	Email / Tel:312-762-2935 DJuneau@ccaltd.com
Address: 600 W. Van Buren St., Ste 500	Project Name: RPS 205 - Walker Original Bldg.
Chicago, IL 60607	Project ID# A139670099
Email: DJuneau@ccaltd.com	PO #:
Tel: 312-762-2935 Fax:	STATE SAMPLES COLLECTED IN: Illinois

GENERAL INSTRUCTIONS		
POSITIVE STOP ANALYSIS	☐	PLM DUE DATE: / /
ANALYZE NOB'S BY TEM	☐	TEM DUE DATE: / /

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☒	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PCM AIR	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR AHERA	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR NIOSH	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS: See attached COC.

Please ecopy results to DMcCormick@ccaltd.com

☑ Accept Samples

☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
	9/7/17 11:30pm DropBox	A	9/11/17 9:00

Samples will be disposed of 30 days after analysis

17-12-855

ASBESTOS
ACM BULK SAMPLING FORM
CARNOW CONIBEAR

CEI LABS

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Jumeau
Client Name: Rockford Public Schools	Email/Contact: DJumeau@ualtd.com
Project Location: Walker Elementary School Original Building	Project No.: A139670099

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
DSC090717-01	Hard Coat wall Plaster	Main Floor - Room 102	☑	☐
-02	↓	- Room 105	☑	☐
-03	↓	- mechanical Rm	☑	☐
-04	↓	- Room 104	☑	☐
-05	↓	2nd FL - Room 202 closet	☑	☐
-06	↓	3rd FL - Hallway Ceiling	☑	☐
-07	↓	3rd FL - Room 305	☑	☐
-08	1'x1' White-Lined Fissured Ceiling Tile	Main Floor - Room 105	☑	☐
-09	↓	- Room 102	☑	☐
-10	↓	- Room 101	☑	☐
-11	Brown Adhesive for 1'x1' Ceiling Tile	Main Floor - Room 105	☑	☐
-12	↓	- Room 102	☑	☐
-13	↓	- Room 101	☑	☐
-14	2'x4' White Fissured Ceiling Tile	Main Floor - Storage Rm	☑	☐
-15	↓	↓	☑	☐
-16	↓	↓	☑	☐
-17	1'x1' Fissured Ceiling Tile	3rd Floor Hall by 305	☑	☐
-18	↓	3rd Floor Hall by 302	☑	☐
-19	↓	2nd Floor Hall by SE Stairs	☑	☐
-20	Dark Brown Adhesive for	3rd Floor Hall by 305	☑	☐
-21	1'x1' Fissured Ceiling Tile	3rd Floor Hall by 302	☑	☐
-22	↓	2nd Floor Hall by SE Stairs	☑	☐
-23	12"x12" Dark Brown Floor Tile	3rd Floor faculty Bath	☑	☐
-24	↓	↓	☑	☐
-25	↓	↓	☑	☐
-26	Brown Adhesive for 12"x12"	3rd Floor faculty Bath	☑	☐
-27	Dark Brown Floor Tile	↓	☑	☐
-28	↓	↓	☑	☐
			☐	☐
			☐	☐

AT-12-855

ASBESTOS
ACM BULK SAMPLING FORM
CARNOW CONIBEAR

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Jneau
Client Name: Rockford Public Schools	Email/Contact: DJneau@ccaltd.com
Project Location: Walker Elementary School Original Building	Project No.: A136700099

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
DJ090717-29	Carpet Mastic	Room 304	☑	☐
30	↓	Room 202	☑	☐
31	↓	Room 204	☑	☐
32	Drywall	Main level - Storage	☑	☐
33	↓	↓ ↓	☑	☐
34	↓	↓ ↓	☑	☐
35	Drywall Joint Compound	Main level - Storage	☑	☐
36	↓	↓ ↓	☑	☐
37	↓	↓ ↓	☑	☐
38	Chalkboard Adhesive	Classrooms	☑	☐
39	↓	↓	☑	☐
40	↓	↓	☑	☐
41	Bulletin Board Backing	Room 303	☑	☐
42	↓	Room 305	☑	☐
43	↓	Room 202	☑	☐
44	Bulletin Board Adhesive	Room 303	☑	☐
45	↓	Room 305	☑	☐
46	↓	Room 202	☑	☐
47	Terrazzo - Sill	Room 305	☑	☐
48	Floor	3rd FL Hall	☑	☐
49	Wall	Dn Stairway	☑	☐
50	Air cell pipe insulation	Boiler Room	☑	☐
51	↓	Tunnel	☑	☐
52	↓	Mechanical Room	☑	☐
53	Mag type Pipe Insulation	Mechanical Room	☑	☐
54	↓	↓	☑	☐
55	↓	↓	☑	☐
56	Generator Exhaust insulation	Boiler Room	☑	☐
57	↓	↓	☑	☐
58	↓	↓	☑	☐

A7-12.855

ASBESTOS
ACM BULK SAMPLING FORM
CARNOW CONIBEAR

CEI LABS

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Dan Juneau
Client Name: Rockford School District	Email/Contact: DJuneau@ccaltd.com
Project Location: Walker Elementary School Original Building	Project No.: A13670099

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
DJ090717-59	Hotwater Tank Flue	Boiler Room	☑	☐
60	Pipe	↓	☑	☐
61	↓	↓	☑	☐
62	Boiler Gasket	Burner	☑	☐
63	Vibration Collar	Attic	☑	☐
64	↓	↓	☑	☐
65	↓	↓	☑	☐
66	Exterior Window Caulk	Exterior	☑	☐
67	(Metal Cap)	↓	☑	☐
68		↓	☑	☐
69	Cardboard Backing	Behind Bulletin Boards	☑	☐
70	Black Plaster Scratch Coat	Behind Chalkboards	☑	☐
			☐	☐
			☐	☐
			☐	☐
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A77-1). 85T

Laura Bostwick

From: Dan Juneau <djuneau@ccaltd.com>
Sent: Monday, September 11, 2017 9:40 AM
To: Laura Bostwick
Subject: Re: RPS 208 - Walker Original Bldg.

2 day TAT. Thank you

Daniel J. Juneau
Carnow Conibear
312-907-0642
Sent from my iPhone

On Sep 11, 2017, at 8:31 AM, Laura Bostwick <asbestos@ceilabs.com> wrote:

> Good Morning!
> We got your project today for Walker Original Building and it is missing a turnaround time. If you would let know what TAT you need for that we will go ahead and get that processed for you asap!
>
> Thanks!
>
> Laura Bostwick
> CEI Labs, Inc.
> 730 SE Maynard Road
> Cary, NC 27511
> (919)481-1413
> asbestos@ceilabs.com

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: Rockford- Walker School; A139670099
Original Building - Roofing

CEI LAB CODE: A17-14769

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 10/19/17

TOTAL SAMPLES ANALYZED: 6

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412
www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford- Walker School; A139670099 **CEI LAB CODE:** A17-14769

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ101717-01		A2523418	Black	Roof Field	None Detected
DJ101717-02		A2523419	Black	Roof Field	None Detected
DJ101717-03		A2523420	Black	Roof Field	None Detected
DJ101717-04		A2523421	Black	Roof Flashing	None Detected
DJ101717-05		A2523422	Black	Roof Flashing	None Detected
DJ101717-06		A2523423	Black	Roof Flashing	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-14769
Date Received: 10-18-17
Date Analyzed: 10-19-17
Date Reported: 10-19-17

Project: Rockford- Walker School; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ101717-01 A2523418	Roof Field	Homogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
DJ101717-02 A2523419	Roof Field	Homogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
DJ101717-03 A2523420	Roof Field	Homogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
DJ101717-04 A2523421	Roof Flashing	Homogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
DJ101717-05 A2523422	Roof Flashing	Homogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected
DJ101717-06 A2523423	Roof Flashing	Homogeneous Black Fibrous Bound	60%	Cellulose	40%	Tar	None Detected

CEI LABS

LEGEND:	Non-Anth	= Non-Asbestiform Anthophyllite
	Non-Trem	= Non-Asbestiform Tremolite
	Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: Megan Fisher

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

(6) A1247769
A2523418
A2523423

ASBESTOS CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Daniel Juneau
Company: Cannon Cowbear & Assoc, Ltd.	Email / Tel: DJuneau@ccaltd.com
Address: 600 W. Van Buren St. Suite 500	Project Name: Rockford-Walker School
Chicago, Illinois 60607	Project ID#: A1396700099
Email: DJuneau@ccaltd.com	PO #:
Tel: 3129070642 Fax: 3127825145	STATE SAMPLES COLLECTED IN: Illinois

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK 6 Samples	EPA 600	☐	☐	☐	☒	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS:
Please Email Results to DJuneau@ccaltd.com
Sampled by: Daniel Juneau 10/17/17 License 100032.13

☑ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/17/17	FedEx Shipping	10/17/17
		CJ	10/18/17 9:20

Samples will be disposed of 30 days after analysis

Page 1 of 1

Version: CCOC.01.17.1/2.LD

A17-14.769

ASBESTOS
ACM BULK SAMPLING FORM

CEI LABS

CARNOW CONIBEAR

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Juneau License 100-03613
Client Name: Rockford Public Schools	Email/Contact: DJuneau@ccaltd.com
Project Location: Walker School - Roof Samples	Project No.: A1396700099

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
DJ101717-01	Roof Field - Asphalt/Tar	Main Roof Elevation	☑	☐
-02	below Rubber Membrane	Original Bldg	☑	☐
-03	↓	↓	☑	☐
			☐	☐
-04	Roof flashing - Asphalt/Tar	Main Roof Elevation	☑	☐
-05	below Rubber Membrane	Original Bldg	☑	☐
-06	↓	↓	☑	☐
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ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: Rockford - Walker School Gym Building; A139670099

CEI LAB CODE: A17-13490

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 09/25/17

TOTAL SAMPLES ANALYZED: 10

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford - Walker School Gym Building; A139670099 **CEI LAB CODE:** A17-13490

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ091917-01A		A2502268	White	Spray-applied Fireproofing	None Detected
DJ091917-02A		A2502269	White	Spray-applied Fireproofing	None Detected
DJ091917-03A		A2502270	White	Spray-applied Fireproofing	None Detected
DJ091917-04A		A2502271	White	Spray-applied Fireproofing	None Detected
DJ091917-05A		A2502272	White	Spray-applied Fireproofing	None Detected
DJ091917-06A		A2502273	White	Spray-applied Fireproofing	None Detected
DJ091917-07A		A2502274	White	Spray-applied Fireproofing	None Detected
DJ091917-08A		A2502275	Black	Paper Material	None Detected
DJ091917-09A		A2502276	Black	Paper Material	None Detected
DJ091917-10A		A2502277	Black	Paper Material	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-13490
Date Received: 09-22-17
Date Analyzed: 09-25-17
Date Reported: 09-25-17

Project: Rockford - Walker School Gym Building; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ091917 -01A A2502268	Spray-applied Fireproofing	Heterogeneous White Fibrous Loose	80%	Cellulose	20%	Binder	None Detected
DJ091917 -02A A2502269	Spray-applied Fireproofing	Heterogeneous White Fibrous Loose	80%	Cellulose	20%	Binder	None Detected
DJ091917 -03A A2502270	Spray-applied Fireproofing	Heterogeneous White Fibrous Loose	80%	Cellulose	20%	Binder	None Detected
DJ091917 -04A A2502271	Spray-applied Fireproofing	Heterogeneous White Fibrous Loose	80%	Cellulose	20%	Binder	None Detected
DJ091917 -05A A2502272	Spray-applied Fireproofing	Heterogeneous White Fibrous Loose	80%	Cellulose	20%	Binder	None Detected
DJ091917 -06A A2502273	Spray-applied Fireproofing	Heterogeneous White Fibrous Loose	80%	Cellulose	20%	Binder	None Detected
DJ091917 -07A A2502274	Spray-applied Fireproofing	Heterogeneous White Fibrous Loose	80%	Cellulose	20%	Binder	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-13490
Date Received: 09-22-17
Date Analyzed: 09-25-17
Date Reported: 09-25-17

Project: Rockford - Walker School Gym Building; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ091917-08A A2502275	Paper Material	Heterogeneous Black Fibrous Bound	60% 10%	Cellulose Fiberglass	30%	Tar	None Detected
DJ091917-09A A2502276	Paper Material	Heterogeneous Black Fibrous Bound	60% 10%	Cellulose Fiberglass	30%	Tar	None Detected
DJ091917-10A A2502277	Paper Material	Heterogeneous Black Fibrous Bound	60% 10%	Cellulose Fiberglass	30%	Tar	None Detected

CEI LABS

LEGEND:	Non-Anth	= Non-Asbestiform Anthophyllite
	Non-Trem	= Non-Asbestiform Tremolite
	Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

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ANALYST: Sarah Talley
Sarah Talley

APPROVED BY:
Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP®
TESTING
NVLAP LAB CODE 101768-0

(10) A17-13,490 A2502268 A2502277

ASBESTOS CHAIN OF CUSTODY

CEI LABS

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: DJuneau@cualtd.com
Company: Carnow Conibear + Assoc. Ltd	Email / Tel: Daniel Juneau
Address: 600 W. Van Buren St, Suite 500	Project Name: Rockford-Walker School Gym Building
Chicago, Illinois 60607	Project ID#: A139670099
Email: DJuneau@cualtd.com	PO #:
Tel: 3129070642 Fax: 3127825145	STATE SAMPLES COLLECTED IN: Illinois

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK 10 Samples	EPA 600	☐	☐	☐	☒	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS:
Please Email results to DJuneau@cualtd.com
DMcCormick@cualtd.com

☒ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	9/21/2017	FedEx	9/21/2017
		Shipping [initials]	9/22/17, 8:40

Samples will be disposed of 30 days after analysis

Page 1 of 1

Version: CCOC.01.17.1/2.LD

AM-13-490

ASBESTOS
ACM BULK SAMPLING FORM

CARNOW CONIBEAR

CEI LABS

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Juneau License 100-03613
Client Name: Rockford Public Schools	Email/Contact: DJuneau@cca ltd.com
Project Location: Walker School - Gym Building	Project No.: A13967 0099

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
DJ091917-01A	Spray Applied Fireproofing	Gym Building - Deck	☑	☐
-02A	↓	↓ - Beam	☑	☐
-03A	↓	↓ - Wall	☑	☐
-04A	↓	↓ - Deck	☑	☐
-05A	↓	↓ - Beam	☑	☐
-06A	↓	↓ - Deck	☑	☐
-07A	↓	↓ - Beam	☑	☐
			☐	☐
-08A	Layered Paper Material	Gym Building - Beneath Gym	☑	☐
-09A	beneath Gymnasium	↓ Wood	☑	☐
-10A	Flooring ↓	↓ Floor ↓	☑	☐
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Sampled by: Daniel Juneau - License 100-03613
Doug McCormick - License 100-08904

Page 1 of 1

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: Rockford Walker School; A139670099
Gym Building

CEI LAB CODE: A17-14770

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 10/19/17

TOTAL SAMPLES ANALYZED: 13

SAMPLES >1% ASBESTOS: 3

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford Walker School; A139670099 **CEI LAB CODE:** A17-14770

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ101717-01A	Layer 1	A2523424	Tan	Texture	Chrysotile 3%
	Layer 2	A2523424	Gray	Plaster	None Detected
DJ101717-02A	Layer 1	A2523425	Tan	Texture	Chrysotile 3%
	Layer 2	A2523425	Gray	Plaster	None Detected
DJ101717-03A		A2523426	Gray	Plaster	None Detected
DJ101717-04A		A2523427	White	Floor Tile	None Detected
DJ101717-05A		A2523428	White	Floor Tile	None Detected
DJ101717-06A		A2523429	White	Floor Tile	None Detected
DJ101717-07A		A2523430	Brown	Adhesive	None Detected
DJ101717-08A		A2523431	Brown	Adhesive	None Detected
DJ101717-09A		A2523432	Brown	Adhesive	None Detected
DJ101717-10A		A2523433	Brown	Floor Tile	Chrysotile 10%
DJ101717-11A		A2523434		Sample Not Analyzed per COC	
DJ101717-12A		A2523435		Sample Not Analyzed per COC	
DJ101717-13A		A2523436	Black	Mastic	None Detected
DJ101717-14A		A2523437	Black	Mastic	None Detected
DJ101717-15A		A2523438	Black	Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-14770
Date Received: 10-18-17
Date Analyzed: 10-19-17
Date Reported: 10-19-17

Project: Rockford Walker School; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
DJ101717 -01A Layer 1 A2523424	Texture	Homogeneous Tan Non-fibrous Bound		35% 60% 2%	Binder Silicates Paint	3% Chrysotile
Layer 2 A2523424	Plaster	Homogeneous Gray Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
DJ101717 -02A Layer 1 A2523425	Texture	Homogeneous Tan Non-fibrous Bound		35% 60% 2%	Binder Silicates Paint	3% Chrysotile
Layer 2 A2523425	Plaster	Homogeneous Gray Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
DJ101717 -03A A2523426	Plaster	Homogeneous Gray Non-fibrous Bound		35% 60% 5%	Binder Silicates Paint	None Detected
DJ101717 -04A A2523427	Floor Tile	Homogeneous White Non-fibrous Bound		100%	Vinyl	None Detected
DJ101717 -05A A2523428	Floor Tile	Homogeneous White Non-fibrous Bound		100%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-14770
Date Received: 10-18-17
Date Analyzed: 10-19-17
Date Reported: 10-19-17

Project: Rockford Walker School; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	 Non-Fibrous	ASBESTOS %
DJ101717 -06A A2523429	Floor Tile	Homogeneous White Non-fibrous Bound		100% Vinyl	None Detected
DJ101717 -07A A2523430	Adhesive	Homogeneous Brown Non-fibrous Bound		100% Mastic	None Detected
DJ101717 -08A A2523431	Adhesive	Homogeneous Brown Non-fibrous Bound		100% Mastic	None Detected
DJ101717 -09A A2523432	Adhesive	Homogeneous Brown Non-fibrous Bound		100% Mastic	None Detected
DJ101717 -10A A2523433	Floor Tile	Homogeneous Brown Non-fibrous Bound		90% Vinyl	10% Chrysotile
DJ101717 -11A A2523434	Sample Not Analyzed per COC				
DJ101717 -12A A2523435	Sample Not Analyzed per COC				
DJ101717 -13A A2523436	Mastic	Homogeneous Black Non-fibrous Bound		100% Tar	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-14770
Date Received: 10-18-17
Date Analyzed: 10-19-17
Date Reported: 10-19-17

Project: Rockford Walker School; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DJ101717 -14A A2523437	Mastic	Homogeneous Black Non-fibrous Bound		100% Tar	None Detected
DJ101717 -15A A2523438	Mastic	Homogeneous Black Non-fibrous Bound		100% Tar	None Detected

CEI LABS

LEGEND:	Non-Anth	= Non-Asbestiform Anthophyllite
	Non-Trem	= Non-Asbestiform Tremolite
	Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

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ANALYST: Megan Fisher

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

ASBESTOS CHAIN OF CUSTODY

(15) A7214771
A2523422
A2523438

CEI LABS
730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Daniel Juneau
Company: Cannon Conihear & Assoc. Ltd	Email / Tel: DJuneau@ccaltd.com
Address: 600 W. Van Buren St. Suite 500	Project Name: Rockford Walker School
Chicago, Illinois 60607	Project ID#: A139670099
Email: DJuneau@ccaltd.com	PO #: –
Tel: 312 907 0642 Fax: 312 782 5145	STATE SAMPLES COLLECTED IN: Illinois

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK 15 Samples	EPA 600	☐	☐	☐	☒	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS:	
Please Email results to DJuneau@ccaltd.com Sampled by: Daniel Juneau 10/17/17 License 100-28613	☑ Accept Samples ☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/17/17	FedEx Shipping	10/17/17
		[initials]	10/18/17 9:20

Samples will be disposed of 30 days after analysis

Version: CCOC.01.17.1/2.LD

ASBESTOS
ACM BULK SAMPLING FORM
CARNOW CONIBEAR

CEI LABS

11-4770

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Juneau License 100-03613
Client Name: Rockford Public Schools	Email/Contact: DJuneau@ccaltd.com
Project Location: Walker School Gymnasium Bldg	Project No.: A139670099

	SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
	DJ101717-01A	Textured Ceiling Plaster	Gym Building Foodservice	☑	☐
	-02A	↓	↓ Stairwell	☑	☐
	-03A	↓	↓ Stairwell	☑	☐
				☐	☐
*	-04A	12"x12" White Floor Tile	Gym Building - Food Service	☑	☐
*	-05A	↓	↓	☑	☐
*	-06A	↓	↓	☑	☐
*	-07A	Brown Adhesive below	↓	☑	☐
*	-08A	↓ 12"x12" White	↓	☑	☐
*	-09A	↓	↓	☑	☐
				☐	☐
*	-10A	Brown Floor Tile below	Gym Building Food Service	☑	☐
*	-11A	↓ 12"x12" White Tile	↓	☑	☐
*	-12A	↓	↓	☑	☐
*	-13A	Black Mastic for Brown Floor Tile	Gym Building Food Service	☑	☐
*	-14A	↓	↓	☑	☐
*	-15A	↓	↓	☑	☐
				☐	☐
				☐	☐
				☐	☐
				☐	☐
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				☐	☐
				☐	☐

*Denotes - Stop @ 1st positive Result

Sampled by Daniel Juneau 10/17/17

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: Rockford-Walker School- Gym; A139670099 Building

CEI LAB CODE: A17-15267

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 10/31/17

TOTAL SAMPLES ANALYZED: 20

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford-Walker School- Gym; A139670099

CEI LAB CODE: A17-15267

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DJ102617-01	Layer 1	A2531221	White	Texture	None Detected
	Layer 2	A2531221	Tan	Plaster Skim Coat	None Detected
	Layer 3	A2531221	Gray	Plaster Base Coat	None Detected
DJ102617-02	Layer 1	A2531222	White	Texture	None Detected
	Layer 2	A2531222	Tan	Plaster Skim Coat	None Detected
	Layer 3	A2531222	Gray	Plaster Base Coat	None Detected
DJ102617-03	Layer 1	A2531223	White	Texture	None Detected
	Layer 2	A2531223	Tan	Plaster Skim Coat	None Detected
	Layer 3	A2531223	Gray	Plaster Base Coat	None Detected
DJ102617-04	Layer 1	A2531224	White	Texture	None Detected
	Layer 2	A2531224	Tan	Plaster Skim Coat	None Detected
	Layer 3	A2531224	Gray	Plaster Base Coat	None Detected
DJ102617-05	Layer 1	A2531225	White	Texture	None Detected
	Layer 2	A2531225	Tan	Plaster Skim Coat	None Detected
	Layer 3	A2531225	Gray	Plaster Base Coat	None Detected
DJ102617-06		A2531226	White	Ceiling Deck	None Detected
DJ102617-07		A2531227	White	Ceiling Deck	None Detected
DJ102617-08		A2531228	White	Ceiling Deck	None Detected
DJ102617-09		A2531229	White,Gray	Exterior Soffit Plaster	None Detected
DJ102617-10		A2531230	White,Gray	Exterior Soffit Plaster	None Detected
DJ102617-11		A2531231	White,Gray	Exterior Soffit Plaster	None Detected
DJ102617-12		A2531232	Black,Yellow	Roof Field	None Detected
DJ102617-13		A2531233	Black,Yellow	Roof Field	None Detected
DJ102617-14		A2531234	Black,Yellow	Roof Field	None Detected
DJ102617-15		A2531235	Gray,Black	Roof Flashing	None Detected
DJ102617-16		A2531236	Gray,Black	Roof Flashing	None Detected
DJ102617-17		A2531237	Gray,Black	Roof Flashing	None Detected
DJ102617-18		A2531238	Gray	Membrane Coating	None Detected
DJ102617-19		A2531239	Gray	Membrane Coating	None Detected
DJ102617-20		A2531240	Gray	Membrane Coating	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-15267
Date Received: 10-27-17
Date Analyzed: 10-30-17
Date Reported: 10-31-17

Project: Rockford-Walker School- Gym; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
DJ102617-01	Texture	Heterogeneous		10%	Paint	None Detected
Layer 1		White		35%	Silicates	
A2531221		Non-fibrous		55%	Binder	
		Bound				
Layer 2	Plaster Skim Coat	Homogeneous		40%	Binder	None Detected
A2531221		Tan		60%	Silicates	
		Non-fibrous				
		Bound				
Layer 3	Plaster Base Coat	Homogeneous		60%	Binder	None Detected
A2531221		Gray		40%	Silicates	
		Non-fibrous				
		Bound				
DJ102617-02	Texture	Heterogeneous		10%	Paint	None Detected
Layer 1		White		35%	Silicates	
A2531222		Non-fibrous		55%	Binder	
		Bound				
Layer 2	Plaster Skim Coat	Homogeneous		40%	Binder	None Detected
A2531222		Tan		60%	Silicates	
		Non-fibrous				
		Bound				
Layer 3	Plaster Base Coat	Homogeneous		60%	Binder	None Detected
A2531222		Gray		40%	Silicates	
		Non-fibrous				
		Bound				
DJ102617-03	Texture	Heterogeneous		10%	Paint	None Detected
Layer 1		White		35%	Silicates	
A2531223		Non-fibrous		55%	Binder	
		Bound				

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-15267
Date Received: 10-27-17
Date Analyzed: 10-30-17
Date Reported: 10-31-17

Project: Rockford-Walker School- Gym; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
Layer 2 A2531223	Plaster Skim Coat	Homogeneous Tan Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
Layer 3 A2531223	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound		60% 40%	Binder Silicates	None Detected
DJ102617-04 Layer 1 A2531224	Texture	Heterogeneous White Non-fibrous Bound		10% 35% 55%	Paint Silicates Binder	None Detected
Layer 2 A2531224	Plaster Skim Coat	Homogeneous Tan Non-fibrous Bound		40% 60%	Binder Silicates	None Detected
Layer 3 A2531224	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound		60% 40%	Binder Silicates	None Detected
DJ102617-05 Layer 1 A2531225	Texture	Heterogeneous White Non-fibrous Bound		10% 35% 55%	Paint Silicates Binder	None Detected
Layer 2 A2531225	Plaster Skim Coat	Homogeneous Tan Non-fibrous Bound		40% 60%	Binder Silicates	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-15267
Date Received: 10-27-17
Date Analyzed: 10-30-17
Date Reported: 10-31-17

Project: Rockford-Walker School- Gym; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 3 A2531225	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound			60% 40%	Binder Silicates	None Detected
DJ102617-06 A2531226	Ceiling Deck	Heterogeneous White Fibrous Bound	10%	Cellulose	5% 80% 5%	Paint Gypsum Silicates	None Detected
DJ102617-07 A2531227	Ceiling Deck	Heterogeneous White Fibrous Bound	10%	Cellulose	5% 80% 5%	Paint Gypsum Silicates	None Detected
DJ102617-08 A2531228	Ceiling Deck	Heterogeneous White Fibrous Bound	10%	Cellulose	5% 80% 5%	Paint Gypsum Silicates	None Detected
DJ102617-09 A2531229	Exterior Soffit Plaster	Heterogeneous White,Gray Non-fibrous Tightly Bound			5% 35% 60%	Paint Binder Silicates	None Detected
DJ102617-10 A2531230	Exterior Soffit Plaster	Heterogeneous White,Gray Non-fibrous Tightly Bound			5% 35% 60%	Paint Binder Silicates	None Detected
DJ102617-11 A2531231	Exterior Soffit Plaster	Heterogeneous White,Gray Non-fibrous Tightly Bound			5% 35% 60%	Paint Binder Silicates	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-15267
Date Received: 10-27-17
Date Analyzed: 10-30-17
Date Reported: 10-31-17

Project: Rockford-Walker School- Gym; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DJ102617-12 A2531232	Roof Field	Heterogeneous Black,Yellow Fibrous Bound	35%	Cellulose	30% 10% 25%	Tar Binder Foam	None Detected
DJ102617-13 A2531233	Roof Field	Heterogeneous Black,Yellow Fibrous Bound	35%	Cellulose	30% 10% 25%	Tar Binder Foam	None Detected
DJ102617-14 A2531234	Roof Field	Heterogeneous Black,Yellow Fibrous Bound	35%	Cellulose	30% 10% 25%	Tar Binder Foam	None Detected
DJ102617-15 A2531235	Roof Flashing	Heterogeneous Gray,Black Non-fibrous Bound			40% 10% 50%	Rubber Silicates Foam	None Detected
DJ102617-16 A2531236	Roof Flashing	Heterogeneous Gray,Black Non-fibrous Bound			40% 10% 50%	Rubber Silicates Foam	None Detected
DJ102617-17 A2531237	Roof Flashing	Heterogeneous Gray,Black Non-fibrous Bound			40% 10% 50%	Rubber Silicates Foam	None Detected
DJ102617-18 A2531238	Membrane Coating	Heterogeneous Gray Non-fibrous Bound			5% 70% 25%	Paint Binder Silicates	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-15267
Date Received: 10-27-17
Date Analyzed: 10-30-17
Date Reported: 10-31-17

Project: Rockford-Walker School- Gym; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
DJ102617-19	Membrane Coating	Heterogeneous		5%	Paint	None Detected
A2531239		Gray		70%	Binder	
		Non-fibrous		25%	Silicates	
		Bound				
DJ102617-20	Membrane Coating	Heterogeneous		5%	Paint	None Detected
A2531240		Gray		70%	Binder	
		Non-fibrous		25%	Silicates	
		Bound				

CEI LABS

LEGEND:	Non-Anth	= Non-Asbestiform Anthophyllite
	Non-Trem	= Non-Asbestiform Tremolite
	Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

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ANALYST: Greg Ruff

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

(20) A7-15-267
A0531221
A0531240

CEI LABS

730 SE Maynard Road, Cary, NC 27511

Tel: 866-481-1412; Fax: 919-481-1442

ASBESTOS CHAIN OF CUSTODY

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Daniel Juneau
Company: Carnow Conibear & Assoc.	Email / Tel: DJuneau@ccaltd.com
Address: 600 W Van Buren St.	Project Name: Rockford Walker School Gym
Chicago, Illinois 60607	Project ID#: A139670079
Email: DJuneau@ccaltd.com	PO #:
Tel: 3129070642 Fax: 3127825145	STATE SAMPLES COLLECTED IN: Illinois

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME 4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☒	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS:	
Please Email Results to DJuneau@ccaltd.com	☒ Accept Samples
Sampled by: Daniel Juneau	☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/26/17	FedEx Shipping	10/26/17
		MR	10/27/17 9:40 am

Samples will be disposed of 30 days after analysis

Page 1 of 1

Version: CCOC.01.17.1/2.LD

A7-1526

CEI LABS

ASBESTOS
ACM BULK SAMPLING FORM
CARNOW CONIBEAR

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Jimenez (License 100 03613)
Client Name: Rockford Public Schools	Email/Contact: DJimenez@cei-ltd.com
Project Location: Walker School - Gym Building	Project No.: A139670099

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
DJ102617-01	Textured Ceiling Plaster	Back Storage by Door E	☑	☐
-02		Door E Vestibule	☑	☐
-03		Stage Area	☑	☐
-04		Door G - Vestibule	☑	☐
-05		Stair Area	☑	☐
-06	Ceiling Deck - Gypsum Type	Gymnasium - below fireproofing	☑	☐
-07			☑	☐
-08			☑	☐
-09	Exterior Soffit Plaster	Door E - Entrance	☑	☐
-10		Door G - Entrance	☑	☐
-11		Door H - Entrance	☑	☐
-12	Roof Field - Asphalt/Foam	Gym Building Roof	☑	☐
-13			☑	☐
-14			☑	☐
-15	Roof flashing - Asphalt/Foam		☑	☐
-16			☑	☐
-17			☑	☐
-18	Gray Membrane Coating		☑	☐
-19	over Roofing		☑	☐
-20			☑	☐
			☐	☐
			☐	☐
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			☐	☐
			☐	☐
			☐	☐

Sampled by: Daniel Jimenez - License 100 03613
Evan Christian - License 100 19466

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: Rockford - Walker School Additional Bldg; A139670099

CEI LAB CODE: A17-13489

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 09/25/17

TOTAL SAMPLES ANALYZED: 63

SAMPLES >1% ASBESTOS: 12

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford - Walker School Additional Bldg; **CEI LAB CODE:** A17-13489
A139670099

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DM091917-01		A2502205	Brown	Floor Tile	Chrysotile 5%
DM091917-02		A2502206	Brown	Floor Tile	Chrysotile 5%
DM091917-03		A2502207	Brown	Floor Tile	Chrysotile 5%
DM091917-04		A2502208	Black	Mastic	Chrysotile 5%
DM091917-05		A2502209	Black	Mastic	Chrysotile 5%
DM091917-06		A2502210	Black	Mastic	Chrysotile 5%
DM091917-07		A2502211	Brown	Floor Tile	None Detected
DM091917-08		A2502212	Brown	Floor Tile	None Detected
DM091917-09		A2502213	Brown	Floor Tile	None Detected
DM091917-10	Layer 1	A2502214	Black	Mastic	Chrysotile 5%
	Layer 2	A2502214	Yellow	Mastic	None Detected
DM091917-11	Layer 1	A2502215	Black	Mastic	Chrysotile 5%
	Layer 2	A2502215	Yellow	Mastic	None Detected
DM091917-12	Layer 1	A2502216	Black	Mastic	Chrysotile 5%
	Layer 2	A2502216	Yellow	Mastic	None Detected
DM091917-13		A2502217	Brown	Floor Tile	None Detected
DM091917-14		A2502218	Brown	Floor Tile	None Detected
DM091917-15		A2502219	Brown	Floor Tile	None Detected
DM091917-16		A2502220	Brown	Mastic	None Detected
DM091917-17		A2502221	Brown	Mastic	None Detected
DM091917-18		A2502222	Brown	Mastic	None Detected
DM091917-19		A2502223	White,Tan	Ceiling Tile	None Detected
DM091917-20		A2502224	White,Tan	Ceiling Tile	None Detected
DM091917-21		A2502225	White,Tan	Ceiling Tile	None Detected
DM091917-22		A2502226	White,Brown	Ceiling Tile	None Detected
DM091917-23		A2502227	White,Brown	Ceiling Tile	None Detected
DM091917-24		A2502228	White,Brown	Ceiling Tile	None Detected
DM091917-25		A2502229	Black	Baseboard	None Detected
DM091917-26		A2502230	Black	Baseboard	None Detected
DM091917-27		A2502231	Black	Baseboard	None Detected
DM091917-28		A2502232	Brown	Adhesive	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford - Walker School Additional Bldg; **CEI LAB CODE:** A17-13489
A139670099

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DM091917-29		A2502233	Brown	Adhesive	None Detected
DM091917-30		A2502234	Brown	Adhesive	None Detected
DM091917-31		A2502235	White	HVAC Wrap	None Detected
DM091917-32		A2502236	White	HVAC Wrap	None Detected
DM091917-33		A2502237	White	HVAC Wrap	None Detected
DM091917-34		A2502238	Gray	Pipe Insulation	None Detected
DM091917-35		A2502239	Gray	Pipe Insulation	None Detected
DM091917-36		A2502240	Gray	Pipe Insulation	None Detected
DM091917-37		A2502241	Brown	Adhesive	None Detected
DM091917-38		A2502242	Brown	Adhesive	None Detected
DM091917-39		A2502243	Brown	Adhesive	None Detected
DM091917-40		A2502244	Brown	Adhesive	None Detected
DM091917-41		A2502245	Brown	Adhesive	None Detected
DM091917-42		A2502246	Brown	Adhesive	None Detected
DM091917-43		A2502247	Gray	Pipe Insulation	None Detected
DM091917-44		A2502248	Gray	Pipe Insulation	None Detected
DM091917-45		A2502249	Gray	Pipe Insulation	None Detected
DM091917-46		A2502250	White,Tan	Ceiling Tile	None Detected
DM091917-47		A2502251	White,Tan	Ceiling Tile	None Detected
DM091917-48		A2502252	White,Tan	Ceiling Tile	None Detected
DM091917-49	Layer 1	A2502253	Blue,White	Plaster Skim Coat	None Detected
	Layer 2	A2502253	Gray	Plaster Base Coat	None Detected
DM091917-50	Layer 1	A2502254	Blue,White	Plaster Skim Coat	None Detected
	Layer 2	A2502254	Gray	Plaster Base Coat	None Detected
DM091917-51	Layer 1	A2502255	Blue,White	Plaster Skim Coat	None Detected
	Layer 2	A2502255	Gray	Plaster Base Coat	None Detected
DM091917-52		A2502256	White,Tan	Drywall	None Detected
DM091917-53		A2502257	White,Tan	Drywall	None Detected
DM091917-54		A2502258	White,Tan	Drywall	None Detected
DM091917-55		A2502259	White,Tan	Drywall	None Detected
DM091917-56		A2502260	White,Tan	Drywall	None Detected

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford - Walker School Additional Bldg; **CEI LAB CODE:** A17-13489 A139670099

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
DM091917-57		A2502261	White,Tan	Drywall	None Detected
DM091917-58		A2502262	White,Blue	Joint Compound	None Detected
DM091917-59		A2502263	White,Blue	Joint Compound	None Detected
DM091917-60		A2502264	White,Blue	Joint Compound	None Detected
DM091917-61		A2502265	Black	Sink Undercoating	Chrysotile 2%
DM091917-62		A2502266	Black	Sink Undercoating	Chrysotile 2%
DM091917-63		A2502267	Black	Sink Undercoating	Chrysotile 2%

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-13489
Date Received: 09-22-17
Date Analyzed: 09-25-17
Date Reported: 09-25-17

Project: Rockford - Walker School Additional Bldg; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DM091917-01 A2502205	Floor Tile	Homogeneous Brown Non-fibrous Bound		95% Vinyl	5% Chrysotile
DM091917-02 A2502206	Floor Tile	Homogeneous Brown Non-fibrous Bound		95% Vinyl	5% Chrysotile
DM091917-03 A2502207	Floor Tile	Homogeneous Brown Non-fibrous Bound		95% Vinyl	5% Chrysotile
DM091917-04 A2502208	Mastic	Homogeneous Black Non-fibrous Bound		95% Tar	5% Chrysotile
DM091917-05 A2502209	Mastic	Homogeneous Black Non-fibrous Bound		95% Tar	5% Chrysotile
DM091917-06 A2502210	Mastic	Homogeneous Black Non-fibrous Bound		95% Tar	5% Chrysotile
DM091917-07 A2502211	Floor Tile	Homogeneous Brown Non-fibrous Bound		100% Vinyl	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-13489
Date Received: 09-22-17
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Project: Rockford - Walker School Additional Bldg; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
DM091917-08 A2502212	Floor Tile	Homogeneous Brown Non-fibrous Bound		100% Vinyl	None Detected
DM091917-09 A2502213	Floor Tile	Homogeneous Brown Non-fibrous Bound		100% Vinyl	None Detected
DM091917-10 Layer 1 A2502214	Mastic	Homogeneous Black Non-fibrous Bound		95% Tar	5% Chrysotile
Layer 2 A2502214	Mastic	Homogeneous Yellow Non-fibrous Bound		100% Mastic	None Detected
DM091917-11 Layer 1 A2502215	Mastic	Homogeneous Black Non-fibrous Bound		95% Tar	5% Chrysotile
Layer 2 A2502215	Mastic	Homogeneous Yellow Non-fibrous Bound		100% Mastic	None Detected
DM091917-12 Layer 1 A2502216	Mastic	Homogeneous Black Non-fibrous Bound		95% Tar	5% Chrysotile

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-13489
Date Received: 09-22-17
Date Analyzed: 09-25-17
Date Reported: 09-25-17

Project: Rockford - Walker School Additional Bldg; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous	ASBESTOS %
Layer 2 A2502216	Mastic	Homogeneous Yellow Non-fibrous Bound		100% Mastic	None Detected
DM091917-13 A2502217	Floor Tile	Homogeneous Brown Non-fibrous Bound		100% Vinyl	None Detected
DM091917-14 A2502218	Floor Tile	Homogeneous Brown Non-fibrous Bound		100% Vinyl	None Detected
DM091917-15 A2502219	Floor Tile	Homogeneous Brown Non-fibrous Bound		100% Vinyl	None Detected
DM091917-16 A2502220	Mastic	Homogeneous Brown Non-fibrous Bound		100% Mastic	None Detected
DM091917-17 A2502221	Mastic	Homogeneous Brown Non-fibrous Bound		100% Mastic	None Detected
DM091917-18 A2502222	Mastic	Homogeneous Brown Non-fibrous Bound		100% Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

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Date Received: 09-22-17
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Date Reported: 09-25-17

Project: Rockford - Walker School Additional Bldg; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DM091917-19 A2502223	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	5% 5% 10%	Binder Paint Perlite	None Detected
DM091917-20 A2502224	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	5% 5% 10%	Binder Paint Perlite	None Detected
DM091917-21 A2502225	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	5% 5% 10%	Binder Paint Perlite	None Detected
DM091917-22 A2502226	Ceiling Tile	Heterogeneous White,Brown Fibrous Loosely Bound	40% 40%	Cellulose Fiberglass	15% 5%	Binder Paint	None Detected
DM091917-23 A2502227	Ceiling Tile	Heterogeneous White,Brown Fibrous Loosely Bound	40% 40%	Cellulose Fiberglass	15% 5%	Binder Paint	None Detected
DM091917-24 A2502228	Ceiling Tile	Heterogeneous White,Brown Fibrous Loosely Bound	40% 40%	Cellulose Fiberglass	15% 5%	Binder Paint	None Detected
DM091917-25 A2502229	Baseboard	Homogeneous Black Non-fibrous Bound			100%	Vinyl	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
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ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DM091917 -26 A2502230	Baseboard	Homogeneous Black Non-fibrous Bound			100%	Vinyl	None Detected
DM091917 -27 A2502231	Baseboard	Homogeneous Black Non-fibrous Bound			100%	Vinyl	None Detected
DM091917 -28 A2502232	Adhesive	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DM091917 -29 A2502233	Adhesive	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DM091917 -30 A2502234	Adhesive	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DM091917 -31 A2502235	HVAC Wrap	Homogeneous White Fibrous Bound	25% 25%	Cellulose Fiberglass	30% 20%	Binder Metal Foil	None Detected
DM091917 -32 A2502236	HVAC Wrap	Homogeneous White Fibrous Bound	25% 25%	Cellulose Fiberglass	30% 20%	Binder Metal Foil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
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Chicago, IL 60607

CEI Lab Code: A17-13489
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Date Analyzed: 09-25-17
Date Reported: 09-25-17

Project: Rockford - Walker School Additional Bldg; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DM091917-33 A2502237	HVAC Wrap	Homogeneous White Fibrous Bound	25% 25%	Cellulose Fiberglass	30% 20%	Binder Metal Foil	None Detected
DM091917-34 A2502238	Pipe Insulation	Homogeneous Gray Fibrous Loosely Bound	5%	Fiberglass	95%	Binder	None Detected
DM091917-35 A2502239	Pipe Insulation	Homogeneous Gray Fibrous Loosely Bound	5%	Fiberglass	95%	Binder	None Detected
DM091917-36 A2502240	Pipe Insulation	Homogeneous Gray Fibrous Loosely Bound	5%	Fiberglass	95%	Binder	None Detected
DM091917-37 A2502241	Adhesive	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DM091917-38 A2502242	Adhesive	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DM091917-39 A2502243	Adhesive	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
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Project: Rockford - Walker School Additional Bldg; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DM091917-40 A2502244	Adhesive	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DM091917-41 A2502245	Adhesive	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DM091917-42 A2502246	Adhesive	Homogeneous Brown Non-fibrous Bound			100%	Mastic	None Detected
DM091917-43 A2502247	Pipe Insulation	Homogeneous Gray Fibrous Loosely Bound	5%	Fiberglass	95%	Binder	None Detected
DM091917-44 A2502248	Pipe Insulation	Homogeneous Gray Fibrous Loosely Bound	5%	Fiberglass	95%	Binder	None Detected
DM091917-45 A2502249	Pipe Insulation	Homogeneous Gray Fibrous Loosely Bound	5%	Fiberglass	95%	Binder	None Detected
DM091917-46 A2502250	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	5% 5% 10%	Binder Paint Perlite	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

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Project: Rockford - Walker School Additional Bldg; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
DM091917-47 A2502251	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	5% 5% 10%	Binder Paint Perlite	None Detected
DM091917-48 A2502252	Ceiling Tile	Heterogeneous White,Tan Fibrous Loosely Bound	60% 20%	Cellulose Fiberglass	5% 5% 10%	Binder Paint Perlite	None Detected
DM091917-49 Layer 1 A2502253	Plaster Skim Coat	Heterogeneous Blue,White Non-fibrous Bound			35% 60% 5%	Binder Silicates Paint	None Detected
Layer 2 A2502253	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound			40% 60%	Binder Silicates	None Detected
DM091917-50 Layer 1 A2502254	Plaster Skim Coat	Heterogeneous Blue,White Non-fibrous Bound			35% 60% 5%	Binder Silicates Paint	None Detected
Layer 2 A2502254	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound			40% 60%	Binder Silicates	None Detected
DM091917-51 Layer 1 A2502255	Plaster Skim Coat	Heterogeneous Blue,White Non-fibrous Bound			35% 60% 5%	Binder Silicates Paint	None Detected

ASBESTOS BULK ANALYSIS

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600 W Van Buren St Ste 500
Chicago, IL 60607

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Project: Rockford - Walker School Additional Bldg; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2 A2502255	Plaster Base Coat	Homogeneous Gray Non-fibrous Bound			40% 60%	Binder Silicates	None Detected
DM091917 -52 A2502256	Drywall	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
DM091917 -53 A2502257	Drywall	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
DM091917 -54 A2502258	Drywall	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	80%	Gypsum	None Detected
DM091917 -55 A2502259	Drywall	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	80% <1%	Gypsum Paint	None Detected
DM091917 -56 A2502260	Drywall	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	80% <1%	Gypsum Paint	None Detected
DM091917 -57 A2502261	Drywall	Heterogeneous White,Tan Fibrous Bound	20%	Cellulose	80% <1%	Gypsum Paint	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
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Chicago, IL 60607

CEI Lab Code: A17-13489
Date Received: 09-22-17
Date Analyzed: 09-25-17
Date Reported: 09-25-17

Project: Rockford - Walker School Additional Bldg; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
DM091917-58 A2502262	Joint Compound	Homogeneous White,Blue Non-fibrous Bound		60% 35% 5%	Binder Calc Carb Paint	None Detected
DM091917-59 A2502263	Joint Compound	Homogeneous White,Blue Non-fibrous Bound		60% 35% 5%	Binder Calc Carb Paint	None Detected
DM091917-60 A2502264	Joint Compound	Homogeneous White,Blue Non-fibrous Bound		60% 35% 5%	Binder Calc Carb Paint	None Detected
DM091917-61 A2502265	Sink Undercoating	Homogeneous Black Non-fibrous Bound		50% 48%	Binder Tar	2% Chrysotile
DM091917-62 A2502266	Sink Undercoating	Homogeneous Black Non-fibrous Bound		50% 48%	Binder Tar	2% Chrysotile
DM091917-63 A2502267	Sink Undercoating	Homogeneous Black Non-fibrous Bound		50% 48%	Binder Tar	2% Chrysotile

CEI LABS

LEGEND:

Non-Anth	= Non-Asbestiform Anthophyllite
Non-Trem	= Non-Asbestiform Tremolite
Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: Megan Fisher

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP® TESTING
NVLAP LAB CODE 101768-0

(63) A17.17.489
A2502205
A2502267

ASBESTOS CHAIN OF CUSTODY

730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Daniel Jumeau
Company: Cannon Constructors & Assoc. Ltd.	Email / Tel: DJumeau@ccaltd.com
Address: 600 W. Van Buren St. Suite 500	Project Name: Rockford - Walker School Addition Bldg
Chicago, IL. 60607	Project ID#: A1396700099
Email: DJumeau@ccaltd.com	PO #:
Tel: 312 907 0642 Fax: 312 782 5145	STATE SAMPLES COLLECTED IN: Illinois

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK (63 samples)	EPA 600	☐	☐	☐	☒	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS:
Please Email results to DJumeau@ccaltd.com
DMccormick@ccaltd.com

☒ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	9/21/2017	Fed Ex	9/21/2017
		Shipping AA	92117 8:40

Samples will be disposed of 30 days after analysis

AT-13.489

ASBESTOS
ACM BULK SAMPLING FORM
CARNOW CONIBEAR

CEI LABS

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Juneau License 100-03613
Client Name: Rockford Public Schools	Email/Contact: DJuneau@cca1td.com
Project Location: Walker School - Addition Bldg.	Project No.: A139670099

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
DM091917-01	12"x12" Dark Brown	Addition Bldg	☑	☐
-02	Floor Tile	1st/2nd Floors	☑	☐
-03	↓	↓	☑	☐
-04	Black Mastic below	Addition Bldg	☑	☐
-05	12"x12" Dark Brown	1st/2nd Floors	☑	☐
-06	Floor Tile	↓	☑	☐
-07	12"x12" Brown Mottled	Addition Bldg	☑	☐
-08	Floor Tile	1st Floor	☑	☐
-09	↓	↓	☑	☐
-10	Black Mastic below	Addition Bldg	☑	☐
-11	12"x12" Brown Mottled	1st Floor	☑	☐
-12	floor Tile	↓	☑	☐
-13	12"x12" Lt. Brown Floor Tile	Addition Bldg	☑	☐
-14	↓	1st Floor - Kindergarten	☑	☐
-15	↓	Rooms - Entry	☑	☐
-16	Brown Mastic below	Addition Building	☑	☐
-17	12"x12" Lt. Brown	1st Floor - Kindergarten	☑	☐
-18	Floor Tile	Rooms - Entry	☑	☐
-19	2'x4' Suspended Ceiling	Addition Bldg	☑	☐
-20	Tile - White/Fissured	1st/2nd Floors	☑	☐
-21	w/ Dots	↓	☑	☐
-22	2'x4' Suspended Ceiling	Addition Bldg	☑	☐
-23	Tile - White - Large Fissured	1st Floor - Storage Rm	☑	☐
-24	↓	↓	☑	☐
-25	Black Vinyl Baseboard	Addition Building	☑	☐
-26	↓	1st/2nd Floors	☑	☐
-27	↓	↓	☑	☐
-28	Adhesive for Black Vinyl	Addition Bldg	☑	☐
-29	Baseboards	1st/2nd Floors	☑	☐
-30	↓	↓	☑	☐

Sampled by: Daniel Juneau - License 100-03613
Doug McCormick - License 100-08904

AT-13.485

ASBESTOS
ACM BULK SAMPLING FORM

CEI LABS

CARNOW CONIBEAR

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Jumeau License 100-03613
Client Name: Rockford Public Schools	Email/Contact: DJumeau@cwaltd.com
Project Location: Walker School - Addition Building	Project No.: A139670099

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
DM091917-31	HVAC Duct Seam Tape/Sealant	Addition Building 1st/2nd Floors	☑	☐
-32			☑	☐
-33			☑	☐
-34	Pipe Joint Insulation	Addition Building 1st/2nd Floors	☑	☐
-35			☑	☐
-36			☑	☐
-37	Wallboard Construction Adhesive - Lt. Brown	Addition Building 1st Floor/2nd Floor	☑	☐
-38			☑	☐
-39			☑	☐
-40	Carpet Adhesive	Addition Building 1st/2nd Floors	☑	☐
-41			☑	☐
-42			☑	☐
-43	Roof Drain Pipe Joint Insulation	~~3~~ Addition Building 2nd Floor	☑	☐
-44			☑	☐
-45			☑	☐
-46	2'x4' Suspended Ceiling Tile White/Small Fissures	Addition Building 2nd Floor	☑	☐
-47			☑	☐
-48			☑	☐
-49	Cement Ceiling Plaster (Textured)	Addition Building 1st/2nd Floors	☑	☐
-50			☑	☐
-51			☑	☐
-52	Drywall Substrate for Cement Type Ceiling Plaster	Addition Building 1st/2nd Floors	☑	☐
-53			☑	☐
-54			☑	☐
-55	Drywall	Addition Building 1st/2nd Floors	☑	☐
-56			☑	☐
-57			☑	☐
-58	Drywall Joint Compound	Addition Building 1st/2nd Floors	☑	☐
-59			☑	☐
-66			☑	☐

Sampled by: Daniel Jumeau - License 100-03613
Douglas McCormick - License 100-08904

AM. 13.489

ASBESTOS
ACM BULK SAMPLING FORM

CEI LABS

CARNOW CONIBEAR

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Daniel Juneau License 100-03613
Client Name: Rockford Public Schools	Email/Contact: DJuneau@ccaltd.com
Project Location: Walker School - Addition Building	Project No.: A139670099

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
DM091917-61	Spray Undercoating on Sinks	Addition Building 1st/2nd Floors	☑	☐
-62	↓	↓	☑	☐
-63	↓	↓	☑	☐
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Sampled by: Daniel Juneau - License 100-03613
Doug McCormick - License 100-08904

Page 3 of 3

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Carnow, Conibear & Assoc., Ltd.

CLIENT PROJECT: Rockford-Walker School-Addition; A139670099 Building Roofing

CEI LAB CODE: A17-15263

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 10/31/17

TOTAL SAMPLES ANALYZED: 9

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Rockford-Walker School-Addition; A139670099

CEI LAB CODE: A17-15263

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
EC102617-01		A2531170	White,Blue	Roof Field	None Detected
EC102617-02		A2531171	White,Blue	Roof Field	None Detected
EC102617-03		A2531172	White,Blue	Roof Field	None Detected
EC102617-04		A2531173	White,Black	Roof Flashing	None Detected
EC102617-05		A2531174	White,Black	Roof Flashing	None Detected
EC102617-06		A2531175	White,Black	Roof Flashing	None Detected
EC102617-07		A2531176	White	Exterior Soffit Plaster	None Detected
EC102617-08		A2531177	White	Exterior Soffit Plaster	None Detected
EC102617-09		A2531178	White	Exterior Soffit Plaster	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-15263
Date Received: 10-27-17
Date Analyzed: 10-30-17
Date Reported: 10-31-17

Project: Rockford-Walker School-Addition; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
EC102617-01 A2531170	Roof Field	Heterogeneous White,Blue Fibrous Bound	20% 10% <1%	Synthetic Fiber Cellulose Fiberglass	25% 10% 35%	Rubber Tar Foam	None Detected
EC102617-02 A2531171	Roof Field	Heterogeneous White,Blue Fibrous Bound	20% 10% <1%	Synthetic Fiber Cellulose Fiberglass	25% 10% 35%	Rubber Tar Foam	None Detected
EC102617-03 A2531172	Roof Field	Heterogeneous White,Blue Fibrous Bound	20% 10% <1%	Synthetic Fiber Cellulose Fiberglass	25% 10% 35%	Rubber Tar Foam	None Detected
EC102617-04 A2531173	Roof Flashing	Heterogeneous White,Black Fibrous Bound	20% 25%	Synthetic Fiber Cellulose	25% 30%	Rubber Tar	None Detected
EC102617-05 A2531174	Roof Flashing	Heterogeneous White,Black Fibrous Bound	20% 25%	Synthetic Fiber Cellulose	25% 30%	Rubber Tar	None Detected
EC102617-06 A2531175	Roof Flashing	Heterogeneous White,Black Fibrous Bound	20% 25%	Synthetic Fiber Cellulose	25% 30%	Rubber Tar	None Detected
EC102617-07 A2531176	Exterior Soffit Plaster	Homogeneous White Non-fibrous Bound			35% 65%	Binder Silicates	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Carnow, Conibear & Assoc., Ltd.
600 W Van Buren St Ste 500
Chicago, IL 60607

CEI Lab Code: A17-15263
Date Received: 10-27-17
Date Analyzed: 10-30-17
Date Reported: 10-31-17

Project: Rockford-Walker School-Addition; A139670099

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous	Non-Fibrous		ASBESTOS %
EC102617-08 A2531177	Exterior Soffit Plaster	Homogeneous White Non-fibrous Bound		35% 65%	Binder Silicates	None Detected
EC102617-09 A2531178	Exterior Soffit Plaster	Homogeneous White Non-fibrous Bound		35% 65%	Binder Silicates	None Detected

LEGEND:	Non-Anth	= Non-Asbestiform Anthophyllite
	Non-Trem	= Non-Asbestiform Tremolite
	Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORTING LIMIT: <1% by visual estimation

REPORTING LIMIT FOR POINT COUNTS: 0.25% by 400 Points or 0.1% by 1,000 Points

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. Estimated measurement of uncertainty is available on request.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: Greg Ruff

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP TESTING
NVLAP LAB CODE 101768-0

(9) A17-15.263
A2531170
A2531178

ASBESTOS CHAIN OF CUSTODY

CEI LABS
730 SE Maynard Road, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:	Job Contact: Daniel Juneau
Company: Carnow Conibear + Assoc.	Email / Tel: DJuneau@ccaltd.com
Address: 600 W. Van Buren St. Suite 500	Project Name: Rockford-Walker School Athl.
Chicago, Illinois 60607	Project ID#: A139670097
Email: DJuneau@ccaltd.com	PO #:
Tel: 312 907 2642 Fax: 312 782 5145	STATE SAMPLES COLLECTED IN: Illinois

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME 4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☒	☐	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PLM BULK	CARB 435		☐	☐	☐	☐	☐
PCM AIR	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM AIR	ISO 10312	☐	☐	☐	☐	☐	☐
TEM AIR	ASTM 6281-09	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05 (2010)	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09 (2014)	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS / SPECIAL INSTRUCTIONS: Please Email results to DJuneau@ccaltd.com

☒ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
D. Juneau (signature)	10/26/17	FedEx	10/26/17
		Shipping MK	10/27/17 9:40am

Samples will be disposed of 30 days after analysis

Page 1 of 1

Version: CCOC.01.17.1/2.LD

AP-15.267

ASBESTOS
ACM BULK SAMPLING FORM

CEI LABS

CARNOW CONIBEAR

COMPANY CONTACT INFORMATION	
Company: Carnow Conibear & Assoc., Ltd.	Inspector: Evan Christen License 100-19466
Client Name: Rockford Public Schools	Email/Contact: DLuneau@ccaltd.com
Project Location: Walker School - Addition Bldg	Project No.: A13967-0099

SAMPLE ID#	MATERIAL DESCRIPTION	LOCATION DETAILS	BULK TEST PLM	BULK TEST TEM
EC102617-01	Roof Field Rubber/Foam	Addition Building	☑	☐
-02	↓	↓	☑	☐
-03	↓	↓	☑	☐
-04	Roof Flashing - Rubber/Foam	Addition Building	☑	☐
-05	↓	↓	☑	☐
-06	↓	↓	☑	☐
-07	Exterior Soffit Plaster	Addition Building	☑	☐
-08	↓	↓	☑	☐
-09	↓	↓	☑	☐
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Sampled by: Evan Christen - License 100-19466

Page 1 of 1

ATTACHMENT B

CARNOW
CONIBEAR

Daniel Juneau

Illinois Licensed Asbestos Inspector, Management Planner, Project Manager, and Air Sampling Professional

IDPH **ASBESTOS PROFESSIONAL LICENSE**

ID NUMBER	ISSUED	EXPIRES
100 - 03613	3/16/2017	05/15/2018

DANIEL J JUNEAU
1408 OAKWOOD AVENUE
DES PLAINES, IL 60016

Environmental Health

ENDORSEMENTS	TC EXPIRES
INSPECTOR	11/30/2017
MANAGEMENT PLANNER	1/5/2018
PROJECT MANAGER	12/6/2017
AIR SAMPLING PROFESSIONAL	

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

CARNOW CONIBEAR

2016

OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Daniel Juneau

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 11/30/2016

Exam Date: 11/30/2016

Expiration Date: 11/30/2017

Certificate Number: BIR1611304207

Kathy DeSalvo, Director

Douglas McCormick

Illinois Licensed Asbestos Inspector, Project Manager, and Air Sampling Professional

IDPH **ASBESTOS PROFESSIONAL LICENSE**

ID NUMBER	ISSUED	EXPIRES
100 - 08904	3/21/2017	05/15/2018

DOUGLAS M McCORMICK
1107 CLINTON AVE
OAK PARK, IL 60304

Environmental Health

ENDORSEMENTS	TC EXPIRES
INSPECTOR	10/7/2017
PROJECT MANAGER	12/6/2017
AIR SAMPLING PROFESSIONAL	

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois
Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

CARNOW CONIBEAR

2016

OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Doug McCormick

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 10/7/2016

Exam Date: 10/7/2016

Expiration Date: 10/7/2017

Certificate Number: BIR1610073816

Kathy DeSalvo

Kathy DeSalvo, Director

Evan Christian

Illinois Licensed Building Inspector, Project Manager, Air Sampling Professional and Management Planner

IDPH **ASBESTOS PROFESSIONAL LICENSE**

ID NUMBER	ISSUED	EXPIRES
100 - 19466	3/1/2017	05/15/2018

EVAN I CHRISTIAN
3024 N RACINE AVE, APT 2
CHICAGO, IL 60657

Environmental Health

ENDORSEMENTS	TC EXPIRES
INSPECTOR	11/30/2017
MANAGEMENT PLANNER	1/5/2018
PROJECT MANAGER	12/6/2017
AIR SAMPLING PROFESSIONAL	

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

CARNOW CONIBEAR

2016

OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Evan Christian

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 11/30/2016

Exam Date: 11/30/2016

Expiration Date: 11/30/2017

Certificate Number: BIR1611304202

Kathy DeSalvo, Director