Asbestos Abatement Request for Bid

Johnston Recreation Center
172 South Circle Avenue
Bloomingdale, Illinois 60191

PREPARED FOR
Bloomingdale Park District
172 South Circle Avenue
Bloomingdale, Illinois 60191

PREPARED BY
True North Consultants, Inc.
1000 East Warrenville Road, Suite 140
Naperville, Illinois 60563
Tele: 630.717.2880

SUBMITTED ON
March 21, 2018

TNC PROJECT NUMBER
TII8110
TABLE OF CONTENTS

BID PACKAGE

SECTION 1  INSTRUCTIONS TO BIDDERS
SECTION 2  BID PROPOSAL FORM
SECTION 3  SCOPE OF WORK
SECTION 4  ASBESTOS ABATEMENT SPECIFICATIONS

FIGURES

FIGURE I  ASBESTOS ABATEMENT PLAN

ATTACHMENTS

ATTACHMENT A  ASBESTOS SURVEY REPORT
ATTACHMENT B  REFERENCES
ATTACHMENT C  BLOOMINGDALE PARK DISTRICT SAMPLE CONTRACT DOCUMENT
SECTION I

Instructions to Bidders
INSTRUCTIONS TO BIDDERS

JOHNSTON RECREATIONAL CENTER
172 SOUTH CIRCLE AVENUE, BLOOMINGDALE, ILLINOIS
ASBESTOS ABATEMENT

1. REQUEST FOR PROPOSAL

True North Consultants, Inc., on behalf of the Bloomingdale Park District (Owner), is requesting Bids from qualified contractors to provide all personnel, labor, equipment, materials and supplies necessary for the interior asbestos abatement and selective demolition of the office area located in the Johnston Recreation Center located at 172 South Circle Avenue in Bloomingdale, Illinois.

All Bids shall be addressed and delivered to the following:

Director of Parks & Planning
Bloomingdale Park District
172 South Circle Avenue
Bloomingdale, Illinois 60108

Any technical questions regarding this project shall be directed to the Owner’s Representative:

Mr. Ryan LaDieu, P.E.
True North Consultants, Inc.
1000 East Warrenville Road, Suite 140
Naperville, Illinois 60563
E-MAIL: rladieu@consulttruenorth.com

2. REQUEST FOR BID PACKAGE

The Bid Package will consist of the following documents, all of which are by this reference made an integral part of this bid request as though fully set forth herein:

A. Instructions to Bidders;

B. Addenda, if issued;

C. Bid Proposal;

D. Scope of Work;

E. Project Specifications – Asbestos Abatement

F. Attachments A, B, C;

G. Sample Contract Document, including all of its Attachments, Forms, and Appendices
3. **BID EXAMINATION & PRE-BID CONFERENCE**

Bidders shall attend a Pre-Bid Meeting to be held at 10 a.m. on April 2, 2018. Contract documents will be provided to Contractors electronically by the Owner’s Representative prior to the walkthrough.

Access to the building and work area will be provided during and immediately following the Pre-Bid Meeting. No Bids will be accepted from any Contractor who has not inspected the job site either in person or through a qualified designated representative.

4. **BID DEADLINE**

Sealed Bids will be received by the Owner at the noted address until 2:00 p.m., local time, April 10, 2018 at the Owner’s office listed above. The project is anticipated to be approved by the Owner on or prior to April 17, 2018.

5. **BID REJECTION**

The Owner reserves the right to reject Bids for any reason that serves the best interests of the Owner. The Owner also reserves the right to waive any technicality or irregularity in a Bid. Failure to submit requested information/documentation or the submission of incorrect information/documentation may result in automatic disqualification of the Bid package.

6. **ALTERATIONS OF SCOPE OF WORK**

The Owner reserves the right to alter the scope of work, as presented in the attached specification, at the Owner’s discretion. Any modifications to the Scope of Work will be submitted in writing to Contractors via Addendum prior to project award. Bids shall be evaluated based on the total base Bid cost, which shall be defined as the addition of all costs associated with the specified work, with additional consideration and evaluation regarding unit costs.

7. **BIDDERS RESPONSIBILITIES FOR WORK AND SITE CONDITIONS**

By submitting a Bid, the Contractor acknowledges that he/she has investigated and satisfied himself/herself as to: (a) the conditions affecting the work, including but not limited to physical conditions of the site which may bear upon site access, handling and disposal of materials, presence of water, electric or other utilities that may otherwise affect performance of required activities; (b) the character and quantity of all surface and subsurface materials or obstacles to be encountered in so far as this information is reasonably ascertainable from an inspection of the site, as well as information presented in the specifications included with this contract. Any failure by the Contractor to acquaint himself with available information will not relieve him from the responsibility for estimating properly the difficulty or cost of successfully performing the work. The Owner is not responsible for any conclusions or interpretations made by the Contractor on the basis of the information made available by the Owner.
8. BID BONDS AND INSURANCE

A. Bid security in the form of a Bid Bond will be required from Bidders for this project. The Bid Bond shall be in the form of a cashier’s check, certified check or bid bond in the amount of 10% of the total proposed cost.

(a) The Abatement Contractor shall provide a Bid Bond in the amount of 10% of the total base bid.

B. The Bidder to whom the Contract is awarded shall be required to furnish a Surety Bond, if the Contractors base bid is greater than $50,000, per the Bloomingdale Sample Contract Documents provided in the Specification as follows:

(a) For all projects where the contract sum is $50,000 or greater, Contractor shall provide a Surety Bond (guaranteeing both faithful performance and payment to subcontractors and material suppliers for labor and materials), naming the Owner as Obligee, for not less than one hundred percent (100%) of the contract amount will be required prior to beginning construction and in a form approved by the Park District Attorney. Such bonds shall include the provision guaranteeing the faithful performance of the Prevailing Wage Act. The surety on the bond shall be a company that is licensed by the Department of Insurance authorizing it to execute surety bonds and the company shall have a financial strength rating of at least A- as rated by A.M. Best Company, Inc., Moody’s Investors Service, Standard & Poor’s Corporation, or a similar rating agency.

(b) Within ten (10) days of the date of the Notice of Award, the successful Contractor shall enter into a formal contract with the Owner and shall provide a Surety Bond in the full amount of the contract. The Contractor shall pay the cost of premiums for said bonds.

(c) The bonds shall be signed and sealed by an authorized representative of the bonding company and an authorized officer or representative of the Contractor, and a certificate of the authority of those signing the bonds, if not officers, shall be attached thereto.

(d) Contractor shall furnish Owner with the Surety Bond covering Contractor's faithful performance of all obligations under the Contract Documents and the payment of all of Contractor's obligations arising out of the Contract Documents. The bond furnished by the Contractor shall fully comply with the Illinois Public Construction Bond Act (30 ILCS550/0.01 et seq.) including the provisions as found in section 30 ILCS 550/1., entitled, Bond Required- Provisions required in bond as amended. Such bond(s) shall be with a surety acceptable to Owner and shall name Owner and Owner’s Lender, if any, as obliges thereunder. Such bond shall include a provision stating that no modification of any provision of any Contract Document, including, without limitation, a change in the contract time, Contract Sum or other condition of payment, will release the surety either in part or in whole. In any event, such bond(s) shall be in form and substance satisfactory to Owner. If from time to time the Contract Sum is increased by $10,000.00 or more, then the bond thereto shall be increased by the amount which the contract sum was increased.
C. The successful Bidder shall be required to furnish insurance certificates listing the Bloomingdale Park District and their agents as additionally insured. The Contractor shall indemnify the Owner and their agents and employees against any and all claims, damages, losses and expenses including attorney’s fees arising out of or which may arise from damages to persons or property due to the negligence of the Contractor, Contractor’s employees, or agents, during said work activities and until the work has been finally accepted as complete by the Owner. Insurance requirements for the Contractor are provided within Section VI – Insurance of the Bloomingdale Park District Sample Contract.

D. If the Owner permits the Contractor to use any of the Owner's equipment, tools or facilities, such use will be gratuitous and the Contractor shall release the Owner from any responsibility arising from claims for personal injuries, including death arising out of the use of such equipment, tools, facilities irrespective of the condition thereof or any negligence on the part of the Owner in permitting their use.

9. INTERPRETATION OF CONTRACT DOCUMENTS

Should a Bidder find discrepancies in the plans and/or specifications, or should the Bidder be in doubt as to the meaning of any part thereof, the Bidder must request a clarification from the Owner’s Representative. Discrepancies with regard to conflicts between the Contract Documents and applicable Federal, State, or Local regulations or requirements shall be included therein. Failure to request such clarification is a waiver to any claim by the Bidder for expense made necessary by reason of later interpretation of the Contract Documents by the Owner or Owner’s Representative. Any interpretation of contract documents shall only be made by Addendum duly issued. A copy of each submitted Addendum will be delivered to each Bidder of record no later than two days prior to the Bid due date. All Addenda issued prior to the opening of Bidder’s Proposals shall become a part of the Bid Package. The Bidder shall acknowledge the receipt of all addenda, by including one signed copy of each acknowledgment sheet with the Bid.

10. SUBMISSION OF BID

One original and two copies of each Bid, properly signed, together with originals of all other required documents, shall be enclosed in a sealed envelope or package and shall be addressed and delivered to the place, before the deadline time, and in the manner designated in the Instructions to Bidders. All Bid Proposals received after the time for the Bid due date specified herein will be returned unopened.

Each sealed envelope or package containing a Bid Proposal shall be identified as such and shall be marked with the title of the Contract and Bidder’s full legal name. All Addenda will be considered part of each Bidder’s Proposal whether attached or not.

11. WITHDRAWAL OF BID

Withdrawal or modifications to Bid are effective only if written notice thereof is filed prior to time of Bid opening and at the place specified in the Instructions to Bidders. A notice of withdrawal or modifications to a Bid must be signed by the Contractor or his designated representative.
No withdrawal or modifications shall be accepted after the Bid due date without the consent of the Owner.

12. METHOD OF BID

A. Bids shall be made on a stipulated lump sum basis for the entire project, with the exception of any noted alternates and/or requested unit costs.

B. Prices quoted in the base Bid shall be guaranteed for a period of one-hundred and eighty (180) days after the Bid due date.

13. BID COMPLIANCE REQUIREMENTS

A. In addition to the Bid Form, the Contractor shall review the conditions provided within the Bloomingdale Park District Sample Contract Document provided within this Specification. If the Contractor has issue with the terms of this Sample Contract, the Contractor shall provide, in a separate modification document, the areas of issue and the Contractor-suggested modifications. In the event the successful Bidder has provided a modification document, the Owner’s attorney shall review the suggested modifications and either accept the modifications as-is or shall contact the Contractor to further negotiate the modified conditions.
SECTION 2
Bid Proposal Form
BID PROPOSAL FORM

ASBESTOS ABATEMENT PROJECT
JOHNSTON RECREATIONAL CENTER
172 SOUTH CIRCLE AVENUE, BLOOMINGDALE, ILLINOIS

Bidder Name: ____________________________

Address: _________________________________

Telephone: _______________________________

BIDS TO:
Mr. Joe Potts
Director of Parks & Planning
Bloomingdale Park District
172 South Circle Avenue
Bloomingdale, Illinois 60108
joe@bloomingdaleparks.org

TECHNICAL QUESTION TO:
Mr. Ryan LaDieu, P.E.
True North Consultants, Inc.
1000 East Warrenville Road, Suite 140
Naperville, Illinois 60563
rladieu@consulttruenorth.com

The undersigned Bidder agrees to furnish all labor, materials, tools, supplies, equipment and mobilization, waste profile, transportation and disposal fees, designated insurance, and all else required for the work as described within the Scope of Work, project specifications, and Contract documents. All work is to be done per applicable Federal, State and local guidelines and/or regulations. Contractor’s price includes all permits, licenses, patents and royalties associated with the performance of the Work. The Owner reserves the right to reject any or all Bids and any part of the Bid without assigning any reason.

All work will be performed during normal business hours and during the normal work week unless otherwise stated. The Contractor is responsible for complying with local noise ordinances as well as Owner access and scheduling requests. The Contractor, by submitting a Bid for the work, represents itself as knowledgeable and an expert in the performance of the work, and includes all things usually and customarily necessary to provide a complete and finished job, whether specifically mentioned or not. The Contractor is solely responsible for verifying site conditions and the quantities of materials present at the Site. Any reference to site conditions or quantities provided in contract documents is solely intended to be an approximation and based upon limited information.

Should a Bidder find discrepancies in the plans and/or specifications, or should the Bidder be in doubt as to the meaning of any part thereof, the Bidder must request a clarification from the Owner or Owner’s Representative. Any technical questions shall be made in writing to the Owner’s Representative a minimum of three (3) working days prior to the Bid due date. Failure to request such clarification is a waiver to any claim by the Bidder for expense made necessary by reason of later interpretation of the Contract Documents by the Owner or Owner’s Representative. Any interpretation of contract documents shall only be made by Addendum duly issued. A copy of each submitted Addendum will be mailed or electronically delivered to each Bidder of record no later than two days prior to the Bid due date. All Addenda issued prior to the opening of Bidder’s Proposals shall become a part of the Bid Package.
Bidder warrants and represents that Bidder has carefully examined the work Site described below and has reviewed and understood all documents included, referred to, or mentioned in this bound set of documents, including issued Addenda, which are attached to the end the Bid Proposal.

Based on the scope of work, the project activities shall be awarded under one contract.

**BASE BID PRICE**

<table>
<thead>
<tr>
<th><strong>Bid Item</strong></th>
<th><strong>Lump Sum Cost</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Asbestos Abatement</strong></td>
<td></td>
</tr>
</tbody>
</table>

Provide all labor, equipment, materials, insurance, notifications, and permits necessary for the limited drywall demolition and removal and disposal of all asbestos-containing material prior to renovation activities as identified in the Scope of Work in accordance with applicable federal, state and local regulations and contract documents. Base Bid shall also include cost of all labor, equipment, materials, transportation, and disposal of all waste materials generated during abatement activities.

$ ______________

**PROJECT INFORMATION**

Anticipated Number of Work Days on Site - Asbestos Abatement

______________________________

Proposed Disposal and/or Recycling Facility Name(s)/Identification

______________________________

**SCHEDULE OF UNIT PRICES**

The following unit prices shall provide the basis for determining any adjustments to the Contract if the Owner elects to add or delete a portion of the items listed below. It is agreed that the additions or deletions are subject to the General Condition, Special Provisions, Supplementary Conditions and Specifications included in the original Contract documents and any Change Orders.

In case of any discrepancies in the prices submitted, unit prices shall govern over total prices, unless the unit price is omitted. If both the unit price and total price are omitted, the Bid shall be rejected.

The following unit prices must be submitted as applicable to the bidding Contractor’s Scope of Work and will be applied only to any unforeseen conditions that are reviewed and approved by the Owner’s project representative. The following unit prices are not to be included in the base bid total, but may be considered and evaluated as part of the award criteria.
ASBESTOS ABATEMENT UNIT PRICING

Cost per 8-hour shift of labor only for removal of additional asbestos-containing material(s) not identified within the Attachment A or the Asbestos Abatement Scope of Work. Price shall be provided as a cost per shift for one worker.

$ /8-hour shift

Provide equipment, transportation, and disposal of additional asbestos-containing material(s) not identified within the Asbestos Survey, any project specification addendum, or the Asbestos Abatement Scope of Work. Price shall be provided as a cost per cubic yard of disposed material.

$ /cubic yard

ADDENDA ACKNOWLEDGMENT

Contractor hereby acknowledges receipt of all Addenda received below by number and date:

<table>
<thead>
<tr>
<th>Addendum No.</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

THIS PROPOSAL SIGNED ON THE ______ day of ___________ in the year Two Thousand and Eighteen by ____________ (Date) ____________ (Month)

Bidder Name: ________________________________ (Please Type)

Signed: ________________________________

Title: ________________________________

Address: ________________________________ (Please Type)

Proposer is a (an): ____________________

(Individual) (Partnership) (Corporation)
SECTION 3

Scope of Work
SCOPE OF WORK

Selective Demolition & Asbestos Abatement

True North Consultants, Inc., on behalf of the Bloomingdale Park District (Owner), has developed the following Scope of Work for the selective demolition and asbestos abatement at the Johnston Recreation Center (JRC) located at 172 South Circle Avenue in Bloomingdale, Illinois, DuPage County, Illinois (Site). The following sections provide information concerning the site conditions and the site-specific Scope of Work.

SITE CONDITIONS

1.0 Site Information

The Site consists of a single story commercial building with a lower level located at 172 South Circle Avenue in Bloomingdale, Illinois. The subject structure is occupied by the Bloomingdale Park District which includes recreational and administrative uses. The exterior of the structure was observed to be constructed of masonry block. The interior walls of the space were generally observed to be finished with concrete masonry unit (CMU) block and drywall. The ceilings were observed to be finished with acoustical ceiling tile. The floors were observed to be laminate throughout the majority of the building with vinyl composition floor tile, carpeting and ceramic tile in the remainder of the building.

The work area where selective demolition and asbestos abatement activities will be performed includes the administrative offices of the JRC. The estimated area includes an approximate 3,400 square foot space with asbestos-containing adhesive underneath carpet. Asbestos-containing adhesive may be located beneath drywall/furring strip systems on concrete block walls and drywall walls.

2.0 Existing Site Conditions

The Contractor shall inspect the Site prior to submittal of a Bid. The Owner and Owner’s Representative will conduct a walk-through for bid preparation purposes. The Contractor shall be responsible for identifying and satisfying itself of quantities, measurements, field conditions, and all other information required for preparation of a quotation.

SCOPE OF WORK

1.0 Pre-Construction Activities

1.1 Permits & Notifications

The Contractor shall obtain any and all applicable Federal, State and Local permits and submit any notifications required for their corresponding scope of work, inclusive of selective demolition and abatement of asbestos-containing material. Permitting requirements will include but may not be limited to Illinois EPA notification, DuPage County notification, and applicable local notifications and/or permits, The Contractor
shall include all costs associated with the acquisition of any necessary notifications, permits, and registrations within their base bid.

1.2 Labor & Equipment Requirements

The Contractor shall provide all labor, equipment, materials, insurance, and permits necessary for the selective demolition of walls, removal of construction and demolition debris, and abatement of asbestos-containing material, as applicable per the identified scope of work. The Contractor shall ensure that provided personnel are qualified and experienced in the type of Work to be performed and that all on-Site personnel have the appropriate training for Work performance in accordance with all applicable regulations, including OSHA, Illinois EPA, Illinois Department of Public Health (Illinois DPH), US EPA, DuPage County, as well as local regulations and requirements.

1.3 Waste Disposal Coordination

The Contractor shall coordinate with the Owner the placement of the waste dumpsters on the Site. The dumpsters shall be place at a location that does not inhibit vehicular movement on the Site. The Contractor shall ensure that the appropriate coordination has been made to transport and dispose of demolition waste and asbestos-containing waste, to a properly permitted disposal site. The Contractor is responsible for completing, submitting, and obtaining approval for any applicable waste profiles. The Contractor shall provide the selected landfill/treatment facility to be used for disposal on the provided Bid forms.

2.0 Asbestos Abatement Activities

2.1 Site Security

The Owner shall provide security in the form of a secured exterior access to the building via existing doorways with locks. The Owner shall coordinate daily access with the Contractor upon bid award. The Contractor shall ensure the integrity of the secured access during work activities. The Contractor shall also ensure that its work area is secure from the interior to limit access to regulated work areas by other contractors working within the building. Figure 1 provides the locations of secured accessways for the abatement portion of the work.

2.2 Asbestos Abatement Activities

The Scope of Work shall include all work activities necessary for the removal of asbestos containing materials as identified in the True North Consultants, Inc. (True North) Asbestos Survey report dated August 18, 2017 and any bid specification addendum(s). Asbestos abatement activities shall include the removal of all ACM adhesive within the JRC office area prior to demolition activities. The Asbestos Abatement Contractor shall be responsible for any means necessary to access ACM material in/under walls, cabinets, and floors inclusive of demolition and stripping.
The Asbestos Abatement Contractor shall perform the following in accordance with the provided Asbestos Abatement Specifications and all applicable Federal, State and Local regulations.

1. Obtain any and all Federal, State and local permits and notifications required for the abatement of asbestos-containing materials.

2. Provide all labor, equipment, materials, insurance, and disposal fees necessary for the abatement and disposal of asbestos-containing materials and asbestos contaminated material and debris associated with the building. Asbestos abatement activities shall be performed in accordance with all applicable Federal, State and Local regulations and in accordance with all contract documents.

3. The Contractor is responsible for providing and verifying that safe conditions exist prior to entry by abatement personnel. Partial demolition may be necessary to provide access to ACM. The Contractor is responsible for evaluating Site conditions and confirming necessary work activities prior to bidding.

4. Remove and dispose of all asbestos-containing materials identified within the provided inspection report as well as any applicable bid specification addendum. This includes the removal of materials overlaying or contaminated by the identified ACM.

5. The Contractor shall HEPA vacuum and wet wipe any visible dust and debris from any interior location in the event any damaged friable asbestos-containing materials and asbestos-contaminated materials or debris are present.

6. The Contractor shall be responsible for determining and verifying all quantities of asbestos-contaminated materials prior to bidding. The quantities provided within the inspection report is intended to be estimates and are not intended to be exact as noted therein. The Contractor shall be responsible for the removal and proper disposal of all ACM identified within the provided asbestos survey reports. Additionally, any asbestos contaminated materials shall be removed from the building and disposed of as ACM waste. Potential asbestos contaminated materials which may be encountered during demolition shall be handled and disposed of per applicable regulations.

7. The Contractor shall be responsible for fully investigating the conditions affecting the work, including but not limited to physical conditions of the Site which may affect site access, handling and disposal of materials, presence of water and electric or other utilities that may otherwise affect performance of required activities. All quantities noted within contract documents are solely intended to be approximations of the total quantity of materials present and should not be used for bidding purposes. **The Contractor is solely responsible for the determination of the exact quantities of materials requiring abatement at the Site.** Any failure by the Contractor to acquaint himself with
available information will not relieve them from the responsibility for estimating properly the difficulty or cost of successfully performing the work.

8. If necessary, at the completion of any abatement activities performed within a negative pressure enclosure, the Contractor shall thoroughly clean all surfaces to the extent feasible within the enclosure. Upon completion of cleaning, the Contractor shall notify the Owner or Owner’s Representative that abatement activities have been completed at which point final clearance air monitoring may be performed by the Owner’s Representative within each negative pressure enclosure. Clearance air monitoring shall be performed utilizing aggressive methods and shall be analyzed by Phase Contrast Microscopy (PCM). In the event that concentrations of airborne fibers within any work area are detected at concentrations greater than 0.01 f/cc, the Contractor shall conduct additional cleaning of the work area, at its own expense, until which time final air clearance has been successfully achieved.

9. Within fifteen (15) days of the completion of asbestos abatement activities, the Contractor shall submit all final closeout documentation to the Owner’s Representative for review. Final payment will not be authorized until which point all closeout documentation, inclusive of waste disposal documentation, has been properly submitted.

2.3 Selective Demolition

The Scope of Work shall include all work activities necessary for the selective demolition and removal of walls, wall components, cabinetry, counters, and other obstructions to access identified ACM. The Contractor shall removal approximately one foot of drywall above the floor on each demising concrete block wall to access carpet and adhesive beneath the drywall/furring strip system installed on the wall. Complete drywall wall demolition shall be performed as identified in Figure 1 of this specification. In addition, the Contractor shall remove all cabinetry, counters, and other obstructions required to completely remove carpet and inspect the condition of the underlying concrete surface. Under no condition shall the Contractor leave any carpeting adhered to the substrate within the work area.

The Contractor shall remove all rubbish and waste resulting from the demolition work, all of which shall be disposed of as a non-ACM waste at an approved and permitted/licensed (where applicable) disposal or recycling facility. Dump receipts must be retained and submitted to the Owner or Owner’s Representative upon request. In the event, that demolish waste is noted to be asbestos-contaminated, the Contractor shall set aside the material and dispose of the material as a ACM waste.

Demolition shall be conducted in a safe manner and suitable protection shall be provided for the public as required and specified by current Village of Bloomingdale and DuPage County code requirements and as otherwise required within contract documents. The contractor is responsible for providing and continuously verifying that safe conditions
The Contractor is solely responsible for evaluating Site conditions prior to quoting the project.

The Contractor shall obtain any and all Federal, State and local permits and notifications required for selective demolition activities. Permittig requirements will include but may not be limited to: a demolition permit from the municipality and a 10-day notification to the Illinois EPA prior to demolition activities.

The Contractor shall provide labor, equipment, transportation, and disposal of all demolition and miscellaneous debris generated during the selective demolition activities. The Contractor will be required to have an asbestos-trained competent person on-Site during all selective demolition activities. The competent person shall supervise demolition activities as well as the removal of the demolition and miscellaneous debris and in the event additional suspect asbestos containing material(s) is identified, the Contractor shall cease work immediately and notify the Owner’s Representative. Any suspect material(s) not previously sampled shall be assumed to be ACM and handled and disposed of accordingly or sampled by a licensed asbestos inspector and asbestos content determined prior to resuming work in the area. One asbestos inspection report has been included within the specification documentation as Attachment A. The Owner or Owner’s Representative will be responsible for coordinating and executing any necessary additional sampling.

In the event additional asbestos containing materials (ACM) are encountered beyond those materials identified within the asbestos survey report, the ACM shall be removed by trained and licensed individuals following applicable regulations and procedures outlined in the Asbestos Scope of Work and Asbestos Abatement Specifications sections of this bid package. All ACM and asbestos-contaminated debris shall be disposed of as an asbestos waste at a permitted landfill.

3.0 Work Area Re-Occupancy

At the completion of selective demolition and asbestos abatement activities, the Contractor shall notify the Owner and the Owner’s Representative. A final inspection shall be performed within the work area to verify conditions prior to returning the work area to the Owner. The Contractor shall be responsible for correcting any conditions that do not meet the conditions of this specification. At work completion and prior to demobilization, the work area shall be devoid of any slips, trips, or fall hazard conditions present as a result of executing the Scope of Work.
SECTION 4

Asbestos Abatement Specifications
SECTION 4 – ASBESTOS ABATEMENT SPECIFICATIONS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

A. This specification covers the abatement of asbestos-containing materials and asbestos hazards from building structures and components as detailed within the Scope of Work and as specified herein.

B. Unless otherwise noted, references to “Contractor” means “Abatement Contractor”, for Specification Section 5, Asbestos Abatement.

C. All asbestos related work activities shall be performed in strict accordance with applicable EPA, OSHA, Illinois Department of Public Health and local regulations, as well as any other applicable codes and regulations that may apply.

D. Where compliance with two or more industry standards or sets of requirements is specified, and overlapping of those different standards or requirements establishes different or conflicting minimums or levels of quality, the most stringent requirements, or “state of the art”, is intended and will be enforced, unless specifically detailed language written into Contract Documents clearly indicates that a less stringent standard is permitted.

E. Personal exposure monitoring (OSHA sampling) as required by the Occupational Safety and Health Administration Asbestos Standard for the Construction Industry 29 CFR 1926.1101 shall be the responsibility of the Contractor. Any and all costs associated with sampling and analysis shall be included within the Contractor’s bid cost.

1.2 WORK INCLUDED

A. The Scope of Work shall include the provision of all labor, equipment, materials, insurance, and permits necessary to remove and dispose of all asbestos-containing materials (ACM) indicated in the Scope of Work and specified herein. The Contractor, by submitting a bid for the work, represents itself as knowledgeable and expert in the performance of the work, and shall account for all expenses necessary to successfully complete the Scope of Work, whether specifically mentioned or not.

B. The Scope of Work includes, but is not limited to the removal of friable and non-friable asbestos-containing materials listed in contract documents, including pre-cleaning work areas, moving furnishings, establishing regulated areas, isolating work areas, protecting adjacent areas, containment of regulated areas, decontamination of work areas, and packaging and disposal of regulated materials necessary to complete the Scope of Work.

C. Existing ceiling systems, ductwork, light fixtures and diffusers and grilles which are scheduled to be re-used, handled, or disposed of as non-ACM shall be protected from contamination. If
existing components or adjacent areas are contaminated by the Contractor, the Contractor shall pay all costs associated with the clean-up and/or disposal of contaminated materials.

D. The Contractor is responsible for restoring the work area and auxiliary areas utilized during the abatement to conditions equal to or better than original.

E. The work specified herein shall be performed by competent persons trained, knowledgeable, licensed, and qualified in the techniques of abatement, handling and disposal of asbestos-containing and asbestos-contaminated materials, and the subsequent cleaning of contaminated areas in compliance with all applicable Federal, State, and Local regulations.

F. Project related documents as specified herein shall be submitted to the Owner’s Representative/Owner prior to, during and at the completion of abatement activities to document compliance with project specifications and for inclusion in a final project completion report.

1.3 QUALITY ASSURANCE

A. Contractor Qualifications

1. The Contractor shall meet, at a minimum, the qualifications and licensure requirements of the State of Illinois Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings.

2. Contractor qualifications will be determined from information submitted as required by contract documents. The information will be used to determine whether the Contractor has the technical qualifications, manpower, experience, equipment, training and facilities to properly and safely perform the work in accordance with the Specifications. In addition, the Owner reserves the right to request additional information as may be required to document compliance with the Specification which may include brand names of materials and equipment, serial numbers, number of HEPA units, etc. Approval may be denied where experience record in one of these areas indicates unsatisfactory performance.

B. Applicable Standards and Guidelines

1. All work under this Contract shall be done in strict accordance with applicable Federal, State and Local regulations, standards and codes governing asbestos abatement and any other environmental work or trade work done in conjunction with the abatement.

2. The most recent edition of any relevant regulations, standards, documents or codes shall be in effect. Where conflict among the requirements of with these specifications exists, the most stringent requirements shall be utilized.

3. The following regulations shall be adhered to in addition to any other applicable standards:

   a. Illinois Department of Public Health

b. Occupational Safety and Health Administration (OSHA).

1) Title 29 Code of Federal Regulations (CFR) Section 1926.1101 – Construction Standard for Asbestos
2) Title 29 CFR Section 1910.134 General Industry Standard for Respiratory Protection
3) Title 29 CFR Section 1910.20 Access to Employee Exposure and Medical Records
4) Title 29 CFR Section 1910.1200 Hazard Communication
5) Title 29 CFR Section 1926.62 Lead Exposure in Construction

c. Environmental Protection Agency (EPA)

1) Title 40 CFR Part 61 Subparts A and M (Revised Subpart B) – National Emission Standard for Hazardous Air Pollutants (NESHAP)
2) Title 40 CFR Part 763 Subpart E Asbestos Hazard Emergency Response Act (AHERA) Rules
3) Title 40 CFR Part 763 Subpart E, Appendix C Asbestos Model Accreditation Plan (MAP): Interim Final Rule

1.4 NOTIFICATION AND SUBMITTALS

A. Within ten (10) calendar days after “Notice of Award”, the Contractor shall submit the following items to the Environmental Consultant:

1. A complete list of all Sub-Contractors and foremen who are to work under this Contract;

2. Copies of the appropriate insurance policies certifying that the Contractor is insured to perform asbestos and/or environmental abatement and has the duty to indemnify the Owner and Engineer for such abatement.

3. Proposed revisions to design drawings for work areas, decontamination chambers, equipment rooms, waste-outs, dumpsters, negative air exhaust points, and utility hook-ups.

4. Supervisor’s licenses and other data sufficient to demonstrate compliance with specified requirements.

B. At least ten (10) calendar days before the start of the Project, Contractor shall submit the following items to the Owner’s Representative:
1. A copy of the demolition/renovation/asbestos abatement notice shall be submitted to the IEPA as required by, NESHAPS, 40 CFR 61, Subparts A and M and also as required by any and all appropriate federal, state, and local agencies responsible for the enforcement of asbestos regulations.

2. When rental equipment is to be used in abatement areas or to transport asbestos-contaminated waste, a written notification concerning intended use of the rental equipment must be provided to the rental agency with a copy submitted to the Owner’s Representative.

C. At least five (5) days prior to commencement of work, the Contractor shall submit the following items to the Engineer:

1. Documentation that arrangements for the transport and disposal of asbestos-containing or contaminated materials and supplies have been made. The name and location of the disposal site, a copy of handling procedures, and a list of protective equipment utilized for asbestos disposal at the landfill, prepared and signed by the Landfill Owner/Operator, shall be obtained and submitted.

2. Documentation that each worker and supervisor has the appropriate training and license.

3. Documentation from a physician that all employees or agents who may be exposed to airborne asbestos in excess of background levels has been medically monitored to determine if the employee is physically capable of working while wearing the required respiratory equipment without suffering adverse health effects. Documentation that personnel have received medical monitoring as required by OSHA 29 CFR 1926.1101 shall be submitted.

4. A list of NIOSH approvals for all respiratory protective devices utilized on site. In addition, manufacturer certification of HEPA filtration capabilities for all cartridges and filters shall be submitted.

5. Documentation that all of the Contractor’s employees and agents who must enter the work area have passed respirator fit tests and have been assigned respirators which fit. This fit testing shall be in accordance with qualitative procedures as detailed in the OSHA Standard 29 CFR 1910.1025 Appendix D Qualitative Fit Test Protocol (1985).

6. Manufacturer’s certification that HEPA vacuums, negative air pressure equipment, and other local exhaust ventilation equipment conform to ANSI Z 9.2-79.

7. Material Safety Data Sheets (MSDS) from supplier or manufacturer for all chemicals proposed for use on the Project.

8. Drawings for layout and construction of decontamination enclosure systems and barriers for isolation of the work area, where applicable.
D. During abatement activities, Contractor shall submit the following items to the Owner’s Representative:

1. Weekly job progress reports detailing abatement activities. Include review of progress with respect to previously established milestones and schedules, problems and action taken, injury reports, and equipment breakdown.

2. Results of personal exposure monitoring performed by the Contractor.

3. Copies of all transport manifests, trip tickets, and disposal receipts for all asbestos waste materials removed from the Work Area during the abatement process.

4. Copies of worksite entry logbooks with information on worker and visitor access.

5. Logs documenting filter changes on respirators, HEPA vacuums, negative pressure ventilation units, and other engineering controls.

6. Copies of worker documentation for all employees authorized to enter work areas.

E. Within fifteen (15) days of completion of abatement activities, Contractor shall submit the following items to the Owner’s Representative:

1. Written certification by the Contractor that all work has been completed in conformance with all applicable Federal, State, and local asbestos regulations and that all asbestos-containing and contaminated material has been removed from the site and legally transported and disposed of at an approved special waste disposal facility.

2. Copies of all remaining transport manifests for all asbestos waste materials removed upon the completion of abatement activities as well as any project related documentation not previously submitted to the Owner’s Representative.

**PART 2 - PRODUCTS**

2.1 GENERAL

A. Deliver all materials in the original packages, containers or bundles bearing the name of the manufacturer and the brand name (where applicable).

B. Store all materials subject to damage off the ground, away from wet or damp surfaces and under cover sufficient enough to prevent damage or contamination. Replacement materials shall be stored outside of the Work Area until abatement is completed.

C. All equipment and materials shall be completely clean before being brought on Site.
2.2 TOOLS AND EQUIPMENT

A. A sufficient quantity of negative pressure ventilation units equipped with HEPA filtration and operated in accordance with ANSI Z 9.2-79 (Local Exhaust Ventilation requirements) and EPA guidance document EPA 560/5-85-024 Guidance for Controlling Friable Asbestos-Containing Materials in Buildings Appendix J: Recommended Specifications and Operating Procedures For the Use of Negative Pressure Systems for Asbestos Abatement shall be utilized so as to provide one workplace air change every 15 minutes. The Contractor shall increase the air exchange rate to six times per hour if chemical solvents or removers are to be used in the Work Area.

Total required air flow shall be calculated as follows:

\[
\text{Total ft}^3/\text{min} = \frac{\text{Vol. of work area}}{15 \text{ min.}}
\]

Total required number of units shall be calculated as follows:

\[
\text{Total Units} = \frac{\text{Total ft}^3/\text{min}}{\text{Capacity of units}}
\]

B. Respirators shall be NIOSH approved for use with asbestos, or other contaminants anticipated in the work.

C. Contractor is fully responsible for complying with OSHA rules for other Safety equipment such as hard hats, safety harnesses, eye protection, gloves, footwear, and any other safety devices used on the Site.

D. Airless sprayers shall have pumps capable of providing 125 pounds per square inch (psi) at the nozzle tip at a flow rate of 2 gallons per minute for spraying amended water.

2.3 MATERIALS

A. Contractor shall ensure that encapsulants and sealants used as primers, basecoats, or covering existing materials are compatible with the respective existing or reinstallation materials and their manufacturers’ warranties.

B. Polyethylene sheeting for all applications shall be 6 mil nominal thickness for floors and drop cloths, and 4 mil polyethylene sheeting for walls. Polyethylene sheeting utilized for worker decontamination enclosures shall be opaque white or black in color.

C. Tape shall be 2” or 3” duct tape or other waterproof tape suitable for joining poly seams and attaching polyethylene sheeting to surfaces.

D. Spray adhesives shall be non-flammable and free of methylene chloride solvents.
E. Disposal bags shall be 6 mil nominal thickness, pre-printed with labels as required by applicable EPA and OSHA requirements with the owners name, date of the project, and shall include the following information:

DANGER
Contains Asbestos Fibers
May Cause Cancer
Do Not Breathe Dust
Avoid Creating Dust

F. Brushes utilized for removing loose asbestos-containing material shall have nylon or fiber bristles.

G. Disposable suits, hoods, and foot coverings shall be TYVEK or similar.

H. Solvents shall be compatible with any primers, mastics, adhesives, paints, coatings, or other surfacing materials to be installed following their use.

I. A sufficient supply of disposable mops, rags and sponges for work area decontamination shall be present at all times.

PART 3 - EXECUTION

3.1 WORK AREA ISOLATION AND PREPARATION

A. Work Area Isolation

1. The Contractor shall establish a regulated work area in accordance with 29 CFR 1910.1001(e)(1) and (2).

2. Where lockable doors are not present, contaminated work area shall be separated from uncontaminated / occupied areas of the building by poly sheeting.

3. In areas where glove bag removal, non-friable removal or patch and repair will be performed outside of a negative pressure containment, a barrier shall be constructed around the work area, and asbestos warning signs shall be posted.

4. Access to the work area shall be limited to the authorized personnel.

B. Work Area Preparation

1. Post caution signs meeting the specifications of OSHA 29 CFR 1926.1101 (k) (6) at any location and approaches to a location where airborne concentrations of asbestos may exceed ambient background levels. Signs shall be posted at a sufficient distance from the work area to permit an employee to read the sign and take the necessary protective
measures to avoid exposure. Additional signs need to be posted following construction of workplace enclosure barriers.

2. Shut down and lock out electric power to all work areas. Provide temporary power and lighting. Insure safe installation (including ground fault circuit interrupters) at the source for temporary power sources and equipment in compliance with all applicable electrical code requirements and OSHA requirements for temporary electrical systems. All costs for electricity shall be paid for by the Owner.

3. Shut down and lock out all heating, ventilating, and air conditioning (HVAC) components that are in, supply or pass through the work area. Appropriate equipment and control measures shall be utilized to prevent contamination of building spaces during this operation.

4. Seal all intake and exhaust vents in the work area with tape and 6-mil polyethylene. Also seal any seams in the system components that pass through the work area. Remove all HVAC system filters and place in labeled 6-mil polyethylene bags for staging and eventual disposal as asbestos contaminated waste.

5. The Contractor shall provide sanitary facilities for abatement personnel outside of the enclosed work area, and maintain them in a clean and sanitary condition throughout the project.

6. The Owner will provide cold water for construction purposes where available. The Contractor may connect to the Owner’s existing system where available.

7. Seal off all windows, doorways, elevator openings, corridor entrances, drains, ducts, grilles, grates, diffusers, and any other openings between the work area and uncontaminated areas outside of the work area with minimum 6-mil polyethylene sheeting and tape.

8. For all gross removal abatement areas, establish a negative pressure enclosure with polyethylene as necessary. All non-cleanable surfaces shall be plasticized and protected as necessary.

9. Negative pressure shall be established within full containment enclosures at -0.02” H2O.

10. Maintain emergency and fire exits from the Work Areas or establish alternative exits acceptable to the local fire department and applicable codes.

C. Worker Decontamination Enclosure Systems

1. Worker decontamination enclosure systems shall be provided at all locations where workers will enter or exit the Work Area.
2. Worker decontamination enclosure systems constructed at the work site shall utilize 6-mil opaque black or white polyethylene sheeting or other acceptable materials for privacy.

3. The worker decontamination enclosure system shall be constructed with three (3) chambers including, at a minimum, a clean room, shower room, and an equipment room, each separated from each other by a curtained doorway.

4. Entry to and exit from decontamination enclosure system chambers shall be through curtained doorways consisting of three sheets of overlapping polyethylene sheeting. All sheets will be secured at the top. The first and third sheets will be secured at the side opposite the side from which the middle sheet is secured. All sheets shall have weights attached to the bottom to insure that they straight and maintain a seal over the doorway when not in use.

5. The clean room shall be sized to adequately accommodate the work crew. Benches and clothes hooks shall be provided. Shelves for storing respirators shall also be provided in this area. Clean work clothes (if required under disposables), clean disposable clothing, replacement filters for respirators, towels, and other necessary items shall be provided in adequate supply at the clean room. A location for postings shall also be provided in this area. Whenever possible, a lockable door shall be used to permit access to the clean room from outside the work area. Lighting, heat, and electricity shall be provided as necessary. This space shall not be used for office space, or for storage of other than specifically designated tools, equipment or materials.

6. Shower facilities shall be provided which comply with 29 CFR 1910.141 (d)(3). The shower room shall contain one or more showers as necessary to adequately accommodate workers. Each shower head shall be supplied with hot and cold water adjustable at the tap. The shower enclosure shall be constructed to insure against leakage of any kind. An adequate supply of soap, shampoo, and towels shall be supplied by the Contractor and available at all times. Shower water shall be drained, collected, and filtered through a system with at least 0.5-1.0 micron particle size capability. (Note: a system containing a series of several filters with progressively smaller pore sizes is recommended to avoid rapid clogging of filtration system by large particles).

7. The equipment room shall be used for storage of equipment and tools at the end of a shift after they have been decontaminated using a HEPA filtered vacuum and/or wet cleaning techniques as appropriate. Replacement filters (in sealed containers until used) for HEPA vacuums and negative pressure ventilation equipment, extra tools, containers of surfactant and other materials and equipment that may be required during abatement may also be stored here. A drum lined with a labeled 6-mil polyethylene bag for collection of disposable clothing shall be located in this room. Contaminated footwear (e.g. rubber boots, other reusable footwear) shall be stored in this area for reuse the following workday.
D. Remote Decontamination

1. Remote Decontamination may be utilized for removal of thermal system insulation utilizing glovebag enclosures, or abatement methods that will not result in the disturbance of friable material. Remote Decontamination enclosures shall comply with 29 CFR 1910.141(d)(3). The following procedures shall be utilized with a remote decontamination system:
   
   a. Workers shall don respiratory protection and two pairs of protective coveralls prior to entering the contained removal area.
   b. Upon completion of removal and cleaning, the worker shall HEPA vacuum the outer suit, enter the airlock, remove the outer suit and dispose of it as asbestos-contaminated waste.
   c. Still wearing the inner suit and respiratory protection, the worker shall either proceed to another containment, don a second suite and enter, or proceed to the remote decontamination enclosure system.
   d. The remote decontamination enclosure system shall be wet cleaned after the completion of abatement and have a 12 hour settling period prior to the collection of air samples.

E. Waste Container Pass-Out

1. Wherever possible, the waste container pass-out airlock shall be located where there is direct access from the work area to the outside of the building.

2. This airlock system shall consist of a container staging area and another airlock with access to outside the work area.

3. The waste container pass-out airlock shall be constructed in similar fashion to the worker decontamination enclosure system using similar materials and airlock and doorway designs.

4. This waste-container pass out and associated airlock system shall not be used to enter or exit the work area.

5. Bag-out shall be on a daily basis. All bagged waste shall be double bagged and sealed with duct tape "goose neck" ties or double wrapped and sealed with duct tape. The waste transporters will hand carry or use only the contractor's plastic gurneys for bagged or wrapped waste. The gurneys will not be overloaded, so as not to expose the polyethylene bags to punctures and/or tears. NOTE: a current fit Test Certificate will be required for users of half-mask respirators.
F. Emergency Exits

1. Emergency exits shall be established and clearly marked with duct tape arrows or other effective designations to permit easy location from anywhere within the Work Area. They shall be secured to prevent access from uncontaminated areas and still permit emergency exiting. These exits shall be properly sealed with polyethylene sheeting which can be cut to permit egress if needed. These exits may be the worker decontamination enclosure, the waste pass-out airlock and/or other alternative exits satisfactory to fire officials.

G. Maintenance of Workplace Barriers and Decontamination Enclosure Systems

1. All polyethylene barriers inside the work area, in the worker decontamination enclosure system, in the waste container pass-out airlock, and at partitions constructed to isolate the work area from occupied areas shall be inspected at least twice daily: prior to the start of each day's abatement activities, and subsequent to the finish of each day's abatement activities. Documentation of these inspections and observations shall be kept in the daily project log.

2. Damage and defects in the enclosure system are to be repaired immediately upon discovery.

3. Use smoke tubes to test the effectiveness of the barrier system when directed by the Owner or Owner’s Representative.

4. At any time during the abatement activities after the barriers have been erected, if visible material is observed outside of the work area or if damage occurs to barriers, work shall immediately stop, repairs shall be made to the barriers, and debris/residue shall be cleaned up using appropriate HEPA vacuuming and wet cleaning procedures.

5. If air samples collected outside of the work area during abatement activities indicate airborne fiber concentrations greater than 0.01 f/cc or pre-measured background levels (whichever is lower), work shall immediately stop for inspection and repair of barriers. Cleanup of surfaces outside of the work area using HEPA vacuum and wet cleaning techniques may be necessary.

6. Install and initiate operation of negative pressure ventilation equipment as needed to provide a minimum of 4 work area volumes of air exchange per hour. Openings made in the enclosure system to accommodate these units shall be made airtight with tape and/or caulking as needed. The discharge of negative air exhaust ventilation must be to the outside of the building and shall not be exhausted into occupied areas. If more than one unit is installed, they should be turned on one at a time checking the integrity of wall barriers for secure attachment and need for additional reinforcement. Ensure that adequate power supply is available to satisfy the requirements of the ventilating units.
7. A negative air pressure differential of at least -0.02 inches of water column, relative to outside ambient air pressure, shall be maintained at all times throughout the contained areas.

8. Instrumentation for measuring pressure differential shall be provided by the Contractor in accordance with OSHA Regulations 29 CFR 1926.1101.

H. Commencement of Work

1. Commencement of work shall not occur until:
   a. Enclosure systems have been constructed and tested.
   b. Negative pressure ventilation systems are functioning adequately.
   c. All pre-abatement submittals, notifications, postings and permits have been provided and are satisfactory to the Owner or Owner's Representative.
   d. All equipment for abatement, clean-up, and disposal is on hand.
   e. All worker training certification is completed.
   f. All containments have been inspected and approved by the Owner’s Representative.

3.2 WORK AREA ENTRY AND EXIT

A. Personnel Entry and Exit

1. All workers and authorized personnel shall enter the work area through the worker decontamination enclosure system, where applicable.

2. All personnel entering or leaving the work area must sign the access log located in the clean room.

3. Before entering the work area, all personnel shall read and be familiar with all posted regulations, personnel protection requirements (including work area entry and exit procedures) and emergency procedures. A sign-off sheet shall be used to acknowledge that these have been reviewed and understood by all personnel prior to entry.

4. All personnel shall first proceed to the clean room, remove all street clothes and don appropriate respiratory protection and launderable and/or disposable coveralls, as well as head and foot coverings. Hard hats, gloves, etc. shall also be utilized if conditions so indicate. Clean respirators and protective clothing shall be provided and utilized by each person for each separate entry into the work area.

5. Personnel wearing designated protective equipment shall proceed from the clean room through the shower and equipment rooms to the main work area.

6. Before leaving the work area, all personnel shall remove gross contamination from the outside of respirators and protective clothing by brushing and/or wet wiping procedures. (Small HEPA vacuums with brush may be utilized for this purpose, however, larger
machines may tear the suits). Each person shall clean the bottoms of their protective footwear in the walkoff pan just prior to entering the equipment room.

7. Personnel shall proceed to equipment room where they remove all protective equipment except respirators. Deposit disposable (and launderable) clothing into appropriately labeled containers for disposal (and laundering).

8. Reusable, contaminated footwear shall be stored in the equipment room when not in use in the work area. Upon completion of abatement, the footwear shall be disposed of as asbestos contaminated waste. (Rubber boots may be decontaminated at the completion of the abatement for reuse).

9. Prior to removing the respirator, personnel will proceed to the shower room, and wash exposed face areas as well as the respirator under running water. The respirator is then removed, and a shampoo and shower is taken to remove any residual asbestos contamination. Various types of respirators will require slight modification of these procedures. A type C respirator with HEPA disconnect protection may be disconnected in the equipment room and worn into the shower. A powered air-purifying respirator face piece will have to be disconnected from the filter/power pack assembly which is not waterproof, upon entering the shower. A dual cartridge respirator may be worn into the shower. Cartridges must be replaced for each new entry into the work area.

10. After showering and drying off, proceed to the clean room and don clean disposable [and/or launderable] clothing if there will be later re-entry of the work area or street clothes if it is the end of the work shift.

11. These procedures shall be posted in the clean room and equipment room.

B. Equipment and Waste Container Pass-out

1. Asbestos contaminated waste that has been containerized shall be transported out of the work area through the waste container pass-out airlock.

2. Waste pass-out procedures shall utilize two teams of workers, an "inside" team and an "outside" team.

3. The inside team wearing appropriate protective clothing and respirators for inside the work area shall clean the outside, including bottoms, of properly labeled containers (bags, drums, or wrapped components) using HEPA vacuums and wet wiping techniques and transport them into the waste container pass-out airlock. No worker from the inside team shall further exit the work area through this airlock.

4. The outside team, donning protective clothing and appropriately assigned respirators, shall enter the airlock from outside the work area, enclose the drums (bags, drums, or wrapped components) in clean, labeled, 6-mil polyethylene bags and remove them from the airlock.
to the outside. No worker from the outside team shall further enter the work area through this airlock.

5. If the equipment decontamination enclosure system does not terminate to the exterior of the building, the following procedures shall be followed:
   a. Waste and equipment shall be placed in a cart lined with a minimum of one layer of six mil plastic sheeting. The cart shall not be overloaded, which may cause tipping. The top of the cart shall be covered with a minimum of one layer of six mil plastic sheeting. The plastic sheeting shall be secured.
   b. The loaded cart shall be carefully taken to and unloaded in the enclosed waste storage unit.

6. The exits from this airlock shall be secured to prevent unauthorized entry.

7. Bag-out shall be on a daily basis. All bagged waste shall be double bagged and sealed with duct tape “goose neck” ties.

### 3.3 TRAINING AND PERSONAL PROTECTION

**A. Training**

1. Prior to commencement of abatement activities, all personnel who will be required to enter the work area or handle containerized asbestos containing materials must have received adequate training in accordance with Part 4 of this document.

2. Special on-site training on equipment and procedures unique to this job site shall be performed as required by the Contractor.

3. Training in emergency response and evacuation procedures shall be provided.

**B. Respiratory Protection**

1. All respiratory protection shall be provided to workers and maintained in accordance with the contractor’s written respiratory protection program, which includes all items in OSHA 29 CFR 1910.134 (b) (1-11). This program shall be posted outside of the clean room of the worker decontamination enclosure system.

2. Workers shall be provided with individually identified (marked with waterproof designations) respirators.

3. Contractors shall use available historical data to perform an initial exposure assessment prior to the initiation of abatement activities. The minimum level of respiratory protection allowed during abatement activities shall be Powered Air Purifying Respirators unless and until air sampling and laboratory data support the use half-mask air purifying respirators.
which will then be the minimum allowable respiratory protection for the removal and cleanup phases of this project.

C. Fit Testing

1. Workers must perform positive and negative pressure fit tests each time a respirator is put on, whenever the respirator design so permits. Powered air-purifying respirators shall be tested for adequate flow as specified by the manufacturer.

2. Workers shall be given a qualitative fit test in accordance with procedures detailed in the OSHA Standard (29 CFR 1926.1101, Appendix C, Qualitative Fit Test Protocols) for all respirators to be used on this abatement project. An appropriately administered quantitative fit test may be substituted for the qualitative fit test. NOTE: All respirators used on this project must have the capacity to function safely in the negative pressure mode, so as to insure a level of respiratory protection, in the event of battery pack, AC power, or compressor failures.

3. Documentation of adequate respiratory fit testing must be provided to the Owner’s Representative.

4. Additional respirators (minimum of 2 of each type) and training on their donning and use must be available at the work site for authorized visitors who may be required to enter the work area.

D. Protective Clothing

1. Disposable clothing including head, foot, and full body protection shall be provided in sufficient quantities and sizes for all workers and authorized visitors.

2. Hard hats, protective eyewear, gloves, rubber boots, and/or other footwear shall be provided as required for workers and authorized visitors. Safety shoes may be required for some activities.

3. Non-disposable footwear and/or clothing shall remain in the work area and shall be disposed of as contaminated material at the end of the project.

3.4 ABATEMENT PROCEDURES

A. Gross Removal Within Negative Pressure Enclosure

1. Clean and isolate the work area as specified herein.

2. Wet all asbestos containing material with an amended water solution using equipment capable of providing a fine spray mist, in order to reduce airborne fiber concentrations
when the material is disturbed. Saturate the material to the substrate, however, do not allow excessive water to accumulate in the work area. Keep all removed material wet enough to prevent fiber release until it can be containerized for disposal. It is important to maintain humidity in the work area (by misting or spraying) to assist in fiber settling and reduce airborne concentrations. Wetting procedures are not equally effective on all types of asbestos-containing materials, but shall nonetheless be used in all cases.

3. Saturated asbestos containing material shall be removed in manageable sections. Removed material shall be containerized before moving to a new location for continuance of work. Surrounding areas shall be periodically sprayed and maintained in a wet condition until visible material is cleaned up.

4. Material removed from the building structure or components shall not be dropped or thrown to the floor. Material is to be removed as intact sections or components whenever possible and carefully lowered to the floor. When this cannot be done, materials will be transported by a constructed dust-tight shoot to containers on the floor, or the material may be containerized at elevated levels (e.g. on scaffolds) and carefully lowered to the ground by mechanical means.

5. Containers (6-mil polyethylene bags or drums) shall be sealed when full. Bags shall not be overfilled. They shall be securely sealed to prevent accidental opening and leakage by tying the tops of the bags in an overhand knot or by taping in gooseneck fashion. Do not seal the bags with wire or cord. Bags shall be decontaminated on exterior surfaces by HEPA vacuuming and wet cleaning before being placed in clean drums or bags in the waste decontamination pass-out enclosure.

6. Large components removed intact may be wrapped in two layers of 6-mil polyethylene sheeting secured with tape for transport to the landfill.

7. Asbestos-containing waste with sharp-edged components (e.g. nails, screws, metal lath, tin sheeting) will tear polyethylene bags or sheeting, and thus must be placed in drums and/or burlap bags for disposal.

8. After completion of all stripping work, surfaces from asbestos containing material have been removed shall be wet-brushed and sponged or cleaned by some equivalent method to remove all visible residue.

9. Clean-up shall proceed in accordance with Section 3.5.

10. After the work area has been rendered free of visible residues, a thin coat of satisfactory encapsulating agent shall be applied to all surfaces in the work area including structural members, building components, and plastic sheeting on walls, floors, and covering non-removable items, to seal in non-visible residue.
B. Glovebag Removal within Regulated Areas

1. All glovebag removal activities shall be performed within Regulated Areas. Glovebag procedures for the removal and repair of pipe insulation shall be conducted using commercially available glove bags of 6-mil clear polyethylene or equivalent, appropriately sized for the project.

2. Prior to performing glove bag removal procedures, the work area shall be isolated to restrict access to work areas by non abatement personnel. Warning signs shall be posted at the entrances to the restricted area in order to avoid any accidental entry into the work area.

3. Decontamination facilities shall be constructed consisting of at least a clean room, shower room and equipment room within a reasonable proximity to the Work Area as approved by the Owner’s Representative.

4. Glovebag removal procedures shall be done by a minimum of two licensed asbestos workers trained in glovebag removal procedures and equipped with respiratory protection and two disposable coveralls.

5. All necessary tools shall be brought into the Work Area before the glove bag removal procedure begins.

6. Glovebags shall be sized to adequately fit the diameter of pipe insulation to be removed. Do not attempt to use a glove bag on piping hotter than 150 degrees F.

7. Glovebag removal procedures shall be performed as follows:

   a. Place all the tools and material necessary to remove and seal the covering in the tool pouch or in the bottom of the bag.
   b. Attach the glovebag around the pipe and seal the ends of the glove bag securely to the pipe utilizing duct tape to create an airtight seal. The integrity of the seals shall be tested by smoke testing prior to the initiation of removal.
   c. Make a small hole in the center of the bag just below the pipe (6 inches) and insert the water sprayer. Seal this hole airtight with tape. The subject pipe insulation shall be misted with amended water prior to and during removal activities.
   d. Use tools to cut existing wires, bands, or metal jacketing. Care must be taken when removing these to avoid ruptures of the bag from the sharp edges. The material removed should be gently placed on the bottom of the bag to avoid rips and tears.
   e. Cut the ends of the insulation and slit lengthwise to remove insulation from the associated pipe.
   f. Spray unprotected pipe with amended water and use tools to fully remove any residual dust and debris from pipe surfaces.
   g. Seal exposed ends of insulation with bridging encapsulant or duct tape.
   h. Spray tools and amended water to clean and place tools within the one of the rubber gloves.
i. Turn the glove inside out and twist and seal end of glove from the inner portion with duct tape. Sever the center of the duct tape to create two separate bags.

j. Remove the water wand and replace it with the HEPA vacuum. Seal the hole and collapse the bag with the vacuum. This will create negative pressure in the bag and help reduce tears and leaks.

k. Twist the glove bag several times and seal the connection with duct tape.

l. Place a 6-mil polyethylene disposal bag under the glove bag, remove the tape, and place the sealed glovebag into the disposal bag.

8. Upon completion of removal activities, workers shall proceed to the decontamination unit and shall follow routine decontamination procedures.

C. Non-Friable Removal Procedures

1. Unless otherwise specified in Contract Documents, the Contractor shall be allowed to utilize non-friable methods for the removal of Vinyl Asbestos Floor Tile (VAT) and adhesive, window caulk and window glazing, and other non-friable materials that may be safety removed without rendering the material friable. The Contractor shall consider material condition, substrates and logistical constraints in the assessment of the appropriateness of the application of non-friable removal procedures. In the event that abatement activities cannot be performed without the breakage of materials or forces that would otherwise render the material friable, the full requirements for gross removal activities contained in Part A of this section shall apply.

2. Non-friable materials must be handled, transported and disposed of in a way that prevents the material from becoming friable and releasing asbestos fibers. Materials must remain intact and in whole pieces throughout removal activities to be considered non-friable. The method of removal cannot shatter, crumble, pulverize or reduce the material to dust. Sanding, sawing, grinding, chipping, and the use of power tools are not allowed.

3. Prior to removal activities, place primary barriers over doorways, registers and other components within the space.

4. For floor tile, utilize an infrared heat machine or heat gun to heat up floor tiles and render the materials pliable. Use a putty knife or floor scraper to gently pry up tiles and place whole pieces in an appropriately labeled fiber drum or leak proof container for disposal.

5. For floor tile adhesive, apply an approved mastic removal solvent to surfaces where ACM mastic is present. The Contractor shall ensure any penetrations in the floor shall be plugged or sealed to prevent solvents from migrating. Walls and adjacent surfaces shall be protected with a splash guard to prevent the staining of wall surfaces during mastic removal activities. Utilize a nylon brush to manually agitate the floor surface to remove mastic from the substrate. Wipe up mastic with disposable towels until the surface is clear of any residual mastic or surface staining.
6. For other non-friable materials, place a drop cloth and remove existing materials in an intact and non-friable condition.

7. Wrap materials in polyethylene sheeting and/or place waste materials in an appropriately labeled leak tight container for disposal.

8. Transport floor tile and waste materials to the ACM lined dumpster for disposal.

3.5 CLEAN UP PROCEDURES

A. Clean-up Procedures Shall Include the Following

1. Remove and containerize all visible accumulations of asbestos containing material and asbestos contaminated debris utilizing rubber dust pans and rubber squeegees to move material around. Do not use metal shovels to pick up or move accumulated waste. Special care shall be taken to minimize damage to floor sheeting.

2. Wet clean all surfaces in the work area using rags, mops, and sponges as appropriate. To pick up excess water and gross wet debris, use a HEPA wet-dry vacuum.

3. The negative pressure ventilation units shall remain in continuous operation. Decontamination enclosure systems shall remain in place and be utilized.

4. After cleaning the work area, wait until all the surfaces become dry to allow fibers to settle and HEPA vacuum and wet clean all objects and surfaces in the work area again.

5. Remove all containerized waste from the area and waste container pass-out airlock.

6. Decontaminate all tools and equipment and remove at the appropriate time in the cleaning sequence.

7. Inspect the work area for visible residue. If any accumulation of residue is observed, it will be assumed to be asbestos and the settling period/cleaning cycle repeated.

8. Following the completion of required cleaning cycles and authorization by the Owner’s Representative, encapsulate each work area where asbestos has been removed.

9. The work areas shall be cleaned until the Owner and/or the Owner’s Representative has determined that the results of his visual inspection are satisfactory. Clearance air testing will be passed when laboratory results indicate airborne fiber concentrations of less than or equal to 0.01 fibers per cubic centimeter (using phase contrast microscopy) at all sampling locations. Sampling protocols shall conform to that presented in 77 Ill. Adm. Code 855. Additional cleaning cycles shall be provided, as necessary, at no cost to the Building Owner/Management until these criteria have been met.
10. Following the satisfactory completion of clearance air monitoring, the remaining barriers may be removed and properly disposed of. A final visual inspection by the Owner’s Representative shall insure that no contamination remains in the work area. Unsatisfactory conditions may require additional cleaning and air monitoring which shall both be performed by the Contractor at no additional to the Owner.

11. All HEPA filtration units shall remain in operation until the containment has successfully achieved final clearance air monitoring.

3.6 AIR MONITORING AND ANALYSIS

A. General

1. The Contractor will be responsible for monitoring the workers exposure to asbestos fibers as required by law. All monitoring for that purpose will comply with the requirements of the most recent standards promulgated to cover the activity. Monitoring results will be provided on a daily basis to the Owner or the Owner’s Representative.

2. The Contractor shall ensure that no employee is exposed to an airborne fiber concentration in excess of 1.0 fiber per cubic centimeter (f/cc) of air as averaged over a sampling period of thirty (30) minutes or is exposed to concentrations that exceeds 0.1 f/cc when factoring in the protection factor of the provided respiratory protection.

3. Wherever possible, the Owner will conduct air sampling prior to the abatement to establish the background concentration of airborne fibers.

4. Wherever possible, Owner will conduct area monitoring during all phases of abatement process. Owner reserves the right to stop/cease abatement activities when the ambient air concentration of asbestos fibers outside the work area exceeds 0.01 f/cc or the background air quality until control measures are instituted to reduce the fiber concentrations to the background air quality or to 0.01 f/cc or less and until any contaminated area is cleaned using HEPA vacuum cleaner and/or wet cleaning methods.

B. Clearance Air Sampling

1. Following completion of clean-up operations, the Contractor shall notify the Owner and/or the Owner’s Representative that the work area is ready for clearance air sampling.

2. The air sampling will be conducted using sampling pumps calibrated at a flow rate of at least 6 and not more than 12 liters per minute using collection media and procedures in accordance with 77 Ill. Adm. Code 855 final air clearance sampling and analysis methods.

3. The number of samples that are required and approximate locations where they shall be taken should be established by the Owner’s Representative in conjunction with the Air Sampling Technician before abatement activity begins.
4. Aggressive sampling shall be performed with sufficient portable 20" fans circulating air in the work area to simulate actual use conditions. Negative pressure ventilation units will not suffice for this purpose, but will continue to operate during clearance air sampling.

5. Clearance air samples shall be analyzed by Phase Contrast Microscopy (PCM), samples at all inside abatement locations shall not exceed 0.01 f/cc.

6. Areas exceeding this level shall be re-cleaned by the Contractor at no additional cost to the Owner and retested until satisfactory levels are obtained.

3.7 DISPOSAL PROCEDURES

A. Waste Disposal

1. Temporary storage on-facility shall be secured and shall be free of debris and lined with 6-mil polyethylene sheeting to prevent contamination from leaking or spilled containers. Floor sheeting shall be installed first and extend up the side walls. Wall sheeting shall be overlapped and taped into place.

2. Temporary storage on-site shall be provided by the Owner.

3. Waste volume in the temporary storage shall be reported daily to the Owner.

4. Waste materials shall be removed from the Work Area on a daily basis. All bagged waste shall be double bagged and sealed with duct tape "goose neck" ties. Transporters will use only the contractor's plastic gurneys for bagged waste. The gurneys will not be overloaded, so as not to expose the polyethylene bags to punctures and/or tears. At all times, all transporters of asbestos debris must have a half-mask negative air respirator with HEPA cartridge filters within concealed reach (eg. tied-off on the gurnies in opaque bags) at all times. NOTE: a current Fit Test Certificate will be required for users of half-mask respirators.

5. Any debris or residue observed on containers or surfaces outside of the work area resulting from clean-up disposal activities shall be cleaned up immediately using HEPA filtered vacuum equipment and/or wet methods as appropriate.

6. Disposal must occur at an authorized site in accordance with the regulatory requirements of NESHAPS and applicable State and Local guidelines and regulations.

7. All dump receipts, trip tickets, transportation manifests or other documentation of disposal shall be delivered to the Owner for his records. A recommended recordkeeping format utilizes a chain-of-custody form which includes the names and addresses of the Generator (Owner), Contractor, pick-up site, and disposal site, the estimated quantity of asbestos waste, and the type of containers used. The form should be signed by the Generator, the
Contractor, and the Disposal Site Operator, as the material changes hands. If a separate hauler is employed, his name, address, telephone number, and signature should also appear on the form.

B. Transportation to the Landfill

1. Once drums, bags, and wrapped components have been removed from the work area, they shall be loaded into an enclosed truck and locked for transport to the landfill.

2. When moving containers, utilize hand trucks, carts, and proper lifting techniques to avoid back injuries. Trucks with lift gates are helpful for raising drums during truck loading.

3. The enclosed cargo area of the truck shall be free of debris and lined with 6-mil polyethylene sheeting to prevent contamination from leaking or spilled containers. Floor sheeting shall be installed first and extend up the side walls. Wall sheeting shall be overlapped and taped into place.

4. Drums shall be placed on level surfaces in the cargo area and packed tightly together to prevent shifting and tipping. Large structural components shall be secured to prevent shifting and bags placed on top. Do not throw containers into truck cargo area.

5. Any debris or residue observed on containers or surfaces outside of the work area resulting from clean-up disposal activities shall be cleaned up immediately using HEPA filtered vacuum equipment and/or wet methods as appropriate.

6. If dumpsters are used for asbestos waste disposal or enclosed cargo area of a truck, they shall have metal doors or metal tops that can be closed and locked to prevent vandalism or other disturbances of bagged asbestos debris. Dumpsters and vehicles shall be locked at all times except when under the direct supervision of Contractor personnel during waste loading materials.

3.8 REESTABLISHMENT OF THE WORK AREA

A. Work Area Reestablishment

1. Reestablishment of the work area shall only occur following the completion of cleanup procedures and after clearance air testing has been performed and documented to the satisfaction of the Owner.

2. Polyethylene barriers shall be removed from walls and floors at this time, maintaining decontamination enclosure systems and barriers over doors, windows, etc.

3. The Contractor and Owner shall visually inspect the work area for any remaining visible residue. Evidence of contamination will necessitate additional cleaning requirements.
4. Additional air monitoring shall be performed if additional clean-up is necessary.

5. Following satisfactory clearance of the work area, remaining polyethylene barriers may be removed and disposed as asbestos contaminated waste.

6. At the discretion of the Contractor, mandatory requirements for personal protective equipment may be waived following the removal of all barriers.

7. Reestablish HVAC, mechanical and electrical systems in proper working order.

8. At the completion of work activities, a final walkthrough punchlist shall be performed by the Owner’s Representative in conjunction with the Owner and the Contractor. All items identified in the final walkthrough punchlist shall be completed to the satisfaction of the Owner prior to full demobilization from the site. The Owner reserves the right to withhold final payment for services rendered until final punchlist items have been successfully completed by the Contractor.
FIGURES
ATTACHMENT A

Asbestos Survey Report – True North Consultants
August 18, 2017

Mr. Joe Potts  
Bloomingdale Park District  
172 South Circle Avenue  
Bloomingdale, Illinois 60108

RE: Facility-Wide Asbestos Survey Report  
172 South Circle Avenue - Johnston Recreation Center True North Project No. TII7492

Dear Mr. Potts:

True North Consultants, Inc. (True North) was retained by Bloomingdale Park District to conduct sampling and analysis of suspect asbestos-containing material (ACM) associated with the Johnston Recreation Center located at 172 South Circle Avenue in Bloomingdale, Illinois (Site). The survey was conducted in order to identify the presence, location, and approximate quantity of ACM at the Site.

Survey activities were performed by Steven Fleisher, an Illinois Department of Public Health (IDPH) licensed Asbestos Building Inspector (License No. 100-06731), on August 3, 2017. Bulk samples were submitted to a National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for analysis (CEI Labs, Inc. NVLAP No. 101768-0).

Based upon the results of analysis, ACM was identified in the black mastic located throughout the main office area under the carpet. Enclosed with this cover letter is a copy of the asbestos survey report including procedures, findings, consultant documentation, and analytical results. A copy of this report should be maintained as a record of survey activities.

We appreciate the opportunity to be of service to Bloomingdale Park District. Should you have any questions regarding this report, please contact us at your earliest convenience.

Respectfully Submitted,

TRUE NORTH CONSULTANTS

Steven Fleisher  
Project Manager
TABLE OF CONTENTS

1.0 INTRODUCTION ......................................................................................................................... 1
   1.1 Statement of Purpose.................................................................................................................. 1
   1.2 Scope of Services...................................................................................................................... 1

2.0 SITE ASSESSMENT .................................................................................................................. 2
   2.1 Site Description....................................................................................................................... 2
   2.2 Field Observations.................................................................................................................. 2

3.0 METHODOLOGY .................................................................................................................... 3
   3.1 Sampling Methods.................................................................................................................... 3
   3.2 Analytical Methods.................................................................................................................. 3

4.0 FINDINGS .............................................................................................................................. 3
   4.1 Summary of Results................................................................................................................ 3
   4.2 Discussion............................................................................................................................... 4
   4.3 Recommendations.................................................................................................................. 5

5.0 GENERAL REMARKS .......................................................................................................... 5

LIST OF TABLES

Table I Summary of Suspect Asbestos-Containing Materials

LIST OF APPENDICES

Appendix A Laboratory Reports and Chain of Custody Records
Appendix B Asbestos Location Diagrams
Appendix C Consultant Licenses
Appendix D Laboratory Accreditation
I.0 INTRODUCTION

I.1 Statement of Purpose

True North Consultants, Inc. (True North) was retained by Bloomingdale Park District to conduct sampling and analysis of suspect asbestos-containing material (ACM) associated with the Johnston Recreation Center located at 172 South Circle Avenue in Bloomingdale, Illinois (Site). Survey activities were performed by Steven Fleisher, an Illinois Department of Public Health (IDPH) licensed Asbestos Building Inspector (License No. 100-07745) on August 3, 2017.

The survey was conducted in order to identify the presence, location, and quantity of ACM at the Site. The survey included an inventory of suspect ACM, an inspection and friability assessment of these materials, and sampling and laboratory analysis of identified materials.

Bulk samples of each homogeneous material (i.e. type of material with same characteristics installed at the same time) were collected and submitted to a National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for analysis (CEI Labs, Inc. NVLAP # 101768-0). A total of thirty-seven (37) samples were collected during the survey. The following report provides a summary of sampling methodology, findings, and recommendations.

I.2 Scope of Services

An evaluation of the presence of ACM within the subject structure was performed as part of the pre-renovation environmental due diligence process. As part of this evaluation, True North was retained to provide the following scope of services:

1. Review client-provided site documentation and previous asbestos sampling reports to identify the presence, location and quantity of known ACM.

2. Conduct a survey of the structure to identify and delineate potential “homogeneous groups” of material present. For each identified homogeneous group, a representative number of samples were collected by an IDPH licensed Asbestos Building Inspector.

3. Submit samples of suspect ACM to a NIST/NVLAP accredited laboratory to be analyzed for asbestos content in accordance with the procedures for Polarized Light

4. Provide a report including a summary of identified ACM and recommendations for the abatement and/or management of these materials.

2.0 SITE ASSESSMENT

2.1 Site Description

The Site consists of a single story commercial building with a lower level located at 172 South Circle Avenue in Bloomingdale, Illinois. The subject structure was occupied by the Bloomingdale Park District at the time of the survey. The exterior of the structure was observed to be constructed of masonry block. The interior walls of the space were generally observed to be finished with concrete masonry unit (CMU) block and drywall. The ceilings were observed to be finished with acoustical ceiling tile. The floors were observed to be laminate throughout the majority of the building with vinyl composition floor tile, carpeting and ceramic tile in the remainder of the building.

The heating, ventilating and air conditioning (HVAC) for the space appears to consist of roof top mounted units supplying a forced air system. Plumbing lines within the building were observed to extend above the ceiling and to the various restrooms and exterior water spigots.

2.2 Field Observations

During the review of site-related documentation and site investigation activities, the following observations were noted:

- Vinyl composition floor tile was observed at several locations within the space.
- Linoleum was observed throughout the hallways and within select classrooms.
- Residual floor tile adhesive was observed throughout the office area underneath existing carpeting.
- Spray-on fireproofing was not observed within the space.
- Mud joint fittings were observed on the fiberglass insulated domestic water lines and roof drain lines throughout the building.
- The majority of the piping systems in the space appear to be visible and accessible.
3.0 METHODOLOGY

3.1 Sampling Methods

Prior to sample collection, the inspector conducted a cursory visual inspection of the structure to identify the various homogeneous groups of material that were present. Homogeneous groups (HG) are defined as materials that are uniform in texture, color, and appear to have been installed at the same time. A sampling plan was then developed based upon the identified homogeneous groups. Sampling was conducted in accordance with the sampling plan discussed in the USEPA Asbestos Hazard Emergency Response Act (AHERA). Samples of each homogeneous group were collected on a random basis within the building in order to obtain an overall representation of asbestos content.

Representative samples of ACM were obtained by removing a small amount of the material and placing it in a leak-tight container. Prior to sampling, the material was wetted to reduce the possibility of fiber release. Samples of surfacing material (SM), miscellaneous materials (MISC) and thermal system insulation (TSI) were taken randomly while attempting to sample damaged areas so as to minimize additional disturbance. The location, description, and quantity of the sampled materials were recorded for future reference.

3.2 Analytical Methods

Bulk samples were submitted to a NIST/NVLAP accredited laboratory for analysis (CEI Labs, Inc. NVLAP No. 101768-0). Samples were analyzed for asbestos content in accordance with the procedures for PLM with dispersion staining, contained in the USEPA “Method for the Determination of Asbestos in Bulk Building Materials” (EPA/600/R-93/116 July, 1993). A visual, calibrated estimate of the material composition was determined using a stereo-binocular microscope. Results of analysis were reported as a percentage composition (%).

4.0 FINDINGS

4.1 Summary of Results

The total asbestos content was determined for each collected sample. A total of thirty-seven (37) bulk samples were collected and submitted for analysis. The following materials were determined to contain greater than 1% asbestos content by PLM analysis:
A summary of identified suspect asbestos-containing materials is provided in Table 1 in the attachments to this report. Copies of laboratory analytical reports are provided in Appendix A of this report. Identified ACM location diagrams are presented in Appendix B of this report.

### 4.2 Discussion

Due to the health effects associated with asbestos exposure, various federal, state and local agencies have promulgated standards and regulations for the performance of asbestos-related activities. Specifically, ACMs at the Site are regulated by OSHA through the Asbestos Standard for the Construction Industry, USEPA through the National Emission Standards for Hazardous Air Pollutants (NESHAPS), IDPH through the Asbestos Abatement Act for Public and Private Schools and Commercial and Public Buildings. The USEPA defines all materials with a percent composition greater than 1% to be an ACM. The OSHA regulations provide detailed work procedures and engineering controls that must be utilized when performing work activities that may disturb ACM.

The scope of regulatory requirements for ACM is based upon the material's friability classification. Friability is defined as the ability of a material to become crumbled, pulverized, or reduced to powder by hand-pressure. Friable materials tend to become airborne more readily than non-friable materials when disturbed, and therefore typically present a greater “hazard” potential to workers and/or building occupants and require removal prior to demolition/renovation activities that would result in their disturbance. Non-friable materials are categorized by the USEPA as either Category I non-friable or Category II non-friable materials. Category I materials include floor tile and adhesive, roofing material, gaskets and packings. Category II non-friable materials include all other materials not specifically classified as Category I. Non-friable material typically does not become airborne readily and therefore represent a lower hazard potential than friable materials. Category I non-friable materials are generally less likely to become rendered friable than Category II non-friable materials and therefore do not always
require removal prior to demolition activities. However, the specific regulatory requirements pertaining to the removal and disposal of non-friable materials are not only dependent upon the current friability classification of the material but also the likelihood that the material will be rendered friable by the forces likely to act upon them. In addition, non-friable materials that are left in place during demolition activities may be subject to special handling and disposal requirements and therefore are often removed prior to structural demolition activities.

4.3 Recommendations

Based upon the results of analysis, ACM was identified in the black mastic throughout the main office area under the carpet. If renovation activities are to be performed that would likely result in the contact or disturbance of identified friable and non-friable asbestos-containing materials, abatement of these materials should be performed by appropriately trained and/or licensed personnel in accordance with the work practices outlined with applicable OSHA, USEPA, and IDPH regulations. In addition, it should be noted that the Illinois Environmental Protection Agency (IEPA) requires a ten (10) working day notification prior to structural demolition/renovation activities regardless of the presence or absence of ACM.

5.0 GENERAL REMARKS

Materials which were suspected to contain asbestos were sampled during the survey. True North made efforts to sample visible and/or accessible suspect ACM. However, True North is not responsible for the identification of ACMs that are not readily accessible due to enclosure or encasement or that cannot be accessed due to unsafe conditions.

In the event that future work activities are to be performed that may result in the disturbance or removal of identified roofing materials, additional testing of these materials is recommended.

The services performed by the environmental scientists on this project have been conducted with that level of care and skill ordinarily exercised by reputable members of the profession, practicing in the same locality, under similar budget and time constraints. No warranty is made or intended.
TABLE I

Summary of Suspect Asbestos-Containing Materials
# Summary of Findings for Suspect Asbestos-Containing Materials

### Site Information:
Johnston Recreation Center  
172 South Circle Avenue  
Bloomingdale, IL 60108

### Client Information:
Bloomingdale Park District  
172 South Circle Avenue  
Bloomingdale, IL 60108

### Survey Performed By:
True North Consultants, Inc.

### Inspector:
Steven J. Fleisher (IDPH# 100-07745)

### Inspection Date:
8/4/2017

### Job Number:
T117492

<table>
<thead>
<tr>
<th>Space ID</th>
<th>Floors</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Masonry structure</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HG</th>
<th>Material Description</th>
<th>Material Type</th>
<th>Friability</th>
<th>Sample #'s</th>
<th>Asbestos Content</th>
<th>Estimated Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2''x4'' Ceiling Tile - Dot &amp; Gouge Pattern</td>
<td>MISC</td>
<td>Friable</td>
<td>1,2</td>
<td>None Detected</td>
<td>5,000 Square Feet</td>
</tr>
<tr>
<td>B</td>
<td>Drywall, Tape, &amp; Joint Compound</td>
<td>MISC</td>
<td>Friable</td>
<td>3,4,5</td>
<td>None Detected</td>
<td>5,000 Square Feet</td>
</tr>
<tr>
<td>C</td>
<td>Linoleum - Beige, Green, &amp; Black</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>6,7</td>
<td>None Detected</td>
<td>6,400 Square Feet</td>
</tr>
<tr>
<td>D</td>
<td>3'' Baseboard - Black</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>8,9</td>
<td>None Detected</td>
<td>500 Linear Feet</td>
</tr>
<tr>
<td>E</td>
<td>Mud Joint Fittings</td>
<td>MISC</td>
<td>Friable</td>
<td>10,11,12</td>
<td>None Detected</td>
<td>150 Square Feet</td>
</tr>
<tr>
<td>F</td>
<td>HVAC Caulking - Carmel Color</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>13,14</td>
<td>None Detected</td>
<td>250 Linear Feet</td>
</tr>
<tr>
<td>G</td>
<td>12''x12'' Floor Tile &amp; Mastic-Pepper Pattern</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>15,16</td>
<td>None Detected</td>
<td>3,050 Square Feet</td>
</tr>
<tr>
<td>H</td>
<td>Black Mastic</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>17,18</td>
<td>3% Chrysotile</td>
<td>3,400 Square Feet</td>
</tr>
<tr>
<td>I</td>
<td>3'' Baseboard - Light Green</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>19,20</td>
<td>None Detected</td>
<td>300 Linear Feet</td>
</tr>
<tr>
<td>J</td>
<td>3'' Baseboard - Black</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>21,22</td>
<td>None Detected</td>
<td>500 Linear Feet</td>
</tr>
<tr>
<td>K</td>
<td>12''x12'' Floor Tile &amp; Mastic-White with Blue &amp; Gray Spots</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>23,24</td>
<td>None Detected</td>
<td>3,685 Square Feet</td>
</tr>
<tr>
<td>L</td>
<td>HVAC Caulking - Gray</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>25,26</td>
<td>None Detected</td>
<td>250 Linear Feet</td>
</tr>
</tbody>
</table>
## Summary of Findings for Suspect Asbestos-Containing Materials

**Site Information:**
Johnston Recreation Center  
172 South Circle Avenue  
Bloomingdale, IL 60108

**Client Information:**
Bloomingdale Park District  
172 South Circle Avenue  
Bloomingdale, IL 60108

**Survey Performed By:**
True North Consultants, Inc.

**Inspector:**
Steven J. Fleisher (IDPH# 100-07745)

**Inspection Date:**
8/4/2017

**Job Number:**
T117492

<table>
<thead>
<tr>
<th>Space ID</th>
<th>Floors</th>
<th>Comments</th>
<th>Square Feet</th>
<th>Linear Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>Stair Treads</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>27,28</td>
</tr>
<tr>
<td></td>
<td>Material Comments: Located on the stairs.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>Mud Joint Fittings</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>29,30,31</td>
</tr>
<tr>
<td></td>
<td>Material Comments: Located on the roof drains within the original structure.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>O</td>
<td>Roof Field</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>32,33</td>
</tr>
<tr>
<td></td>
<td>Material Comments: Located in gymnasium and gymnastics area.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>Roof Field</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Material Comments: Located on the original structure.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td>Caulking - White</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>35,36</td>
</tr>
<tr>
<td></td>
<td>Material Comments: Located on the exterior gymnasium wall panels.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td>Roof Field</td>
<td>MISC</td>
<td>Non-Friable</td>
<td>37</td>
</tr>
<tr>
<td></td>
<td>Material Comments: Located on the east addition.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX A

Laboratory Reports and Chain of Custody Records
August 8, 2017

True North Consultants, Inc.
1240 Iroquois Avenue, Suite 206
Naperville, IL 60563

CLIENT PROJECT: Bloomingdale; T117492
CEI LAB CODE: A17-11184

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on August 7, 2017. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director
ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for
True North Consultants, Inc.

CLIENT PROJECT:  Bloomingdale; T117492

CEI LAB CODE:  A17-11184

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

REPORT DATE:  08/08/17

TOTAL SAMPLES ANALYZED:  36

# SAMPLES >1% ASBESTOS:  1
### Asbestos Report Summary

**By: POLARIZING LIGHT MICROSCOPY**

**PROJECT:** Bloomingdale; T117492  
**CEI LAB CODE:** A17-11184

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

<table>
<thead>
<tr>
<th>Client ID</th>
<th>Layer</th>
<th>Lab ID</th>
<th>Color</th>
<th>Sample Description</th>
<th>ASBESTOS %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>A2466416</td>
<td>Gray,White</td>
<td>Ceiling Tile</td>
<td>None Detected</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>A2466417</td>
<td>Gray,White</td>
<td>Ceiling Tile</td>
<td>None Detected</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>A2466418</td>
<td>Off-white,Tan</td>
<td>Drywall/Joint Compound &amp; Tape</td>
<td>None Detected</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>A2466419</td>
<td>Off-white,Tan</td>
<td>Drywall/Joint Compound &amp; Tape</td>
<td>None Detected</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>A2466420</td>
<td>Off-white,Tan</td>
<td>Drywall/Joint Compound &amp; Tape</td>
<td>None Detected</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>A2466421</td>
<td>Tan</td>
<td>Linoleum</td>
<td>None Detected</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>A2466422</td>
<td>Gray</td>
<td>Linoleum</td>
<td>None Detected</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>A2466423A</td>
<td>Black</td>
<td>3&quot; Baseboard</td>
<td>None Detected</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>A2466423B</td>
<td>Tan</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>A2466424A</td>
<td>Black</td>
<td>3&quot; Baseboard</td>
<td>None Detected</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>A2466424B</td>
<td>Tan</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>A2466425</td>
<td>Gray</td>
<td>Mud Joint Fittings</td>
<td>None Detected</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td>A2466426</td>
<td>Gray</td>
<td>Mud Joint Fittings</td>
<td>None Detected</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>A2466427</td>
<td>Gray</td>
<td>Mud Joint Fittings</td>
<td>None Detected</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>A2466428</td>
<td>Tan,Gray</td>
<td>Hvac Caulking</td>
<td>None Detected</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>A2466429</td>
<td>Tan,Gray</td>
<td>Hvac Caulking</td>
<td>None Detected</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td>A2466430A</td>
<td>Off-white,Black</td>
<td>Floor Tile</td>
<td>None Detected</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>A2466430B</td>
<td>Black</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>A2466431A</td>
<td>Off-white,Black</td>
<td>Floor Tile</td>
<td>None Detected</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>A2466431B</td>
<td>Black</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>A2466432</td>
<td>Black,Green</td>
<td>Mastics</td>
<td>Chrysotile 3%</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>A2466433</td>
<td>Sample Not Analyzed per COC</td>
<td>None Detected</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td></td>
<td>A2466434A</td>
<td>Green</td>
<td>3&quot; Baseboard</td>
<td>None Detected</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td>A2466434B</td>
<td>Off-white</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td>A2466435A</td>
<td>Green</td>
<td>3&quot; Baseboard</td>
<td>None Detected</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td>A2466435B</td>
<td>Off-white</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td>A2466436A</td>
<td>Black</td>
<td>3&quot; Baseboard</td>
<td>None Detected</td>
</tr>
<tr>
<td>28</td>
<td></td>
<td>A2466436B</td>
<td>Tan</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td>A2466437A</td>
<td>Black</td>
<td>3&quot; Baseboard</td>
<td>None Detected</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td>A2466437B</td>
<td>Tan</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>31</td>
<td></td>
<td>A2466438A</td>
<td>Off-white</td>
<td>Floor Tile</td>
<td>None Detected</td>
</tr>
</tbody>
</table>
Asbestos Report Summary
By: POLARIZING LIGHT MICROSCOPY

PROJECT: Bloomingdale; T117492  
CEI LAB CODE: A17-11184

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

<table>
<thead>
<tr>
<th>Client ID</th>
<th>Layer</th>
<th>Lab ID</th>
<th>Color</th>
<th>Sample Description</th>
<th>ASBESTOS %</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2466438B</td>
<td></td>
<td></td>
<td>Black</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>24</td>
<td></td>
<td>A2466439A</td>
<td>Off-white</td>
<td>Floor Tile</td>
<td>None Detected</td>
</tr>
<tr>
<td>A2466439B</td>
<td></td>
<td></td>
<td>Black</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>25</td>
<td></td>
<td>A2466440</td>
<td>Gray</td>
<td>Hvac Caulking</td>
<td>None Detected</td>
</tr>
<tr>
<td>26</td>
<td></td>
<td>A2466441</td>
<td>Gray</td>
<td>Hvac Caulking</td>
<td>None Detected</td>
</tr>
<tr>
<td>27</td>
<td></td>
<td>A2466442A</td>
<td>Black</td>
<td>Stair Tread</td>
<td>None Detected</td>
</tr>
<tr>
<td>A2466442B</td>
<td></td>
<td></td>
<td>Tan</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>28</td>
<td></td>
<td>A2466443A</td>
<td>Black</td>
<td>Stair Tread</td>
<td>None Detected</td>
</tr>
<tr>
<td>A2466443B</td>
<td></td>
<td></td>
<td>Tan</td>
<td>Mastic</td>
<td>None Detected</td>
</tr>
<tr>
<td>29</td>
<td></td>
<td>A2466444</td>
<td>Gray</td>
<td>Mud Joint Fittings</td>
<td>None Detected</td>
</tr>
<tr>
<td>30</td>
<td></td>
<td>A2466445</td>
<td>Gray</td>
<td>Mud Joint Fittings</td>
<td>None Detected</td>
</tr>
<tr>
<td>31</td>
<td></td>
<td>A2466446</td>
<td>Gray</td>
<td>Mud Joint Fittings</td>
<td>None Detected</td>
</tr>
<tr>
<td>32</td>
<td>Layer 1</td>
<td>A2466447</td>
<td>Gray</td>
<td>Roof Field (felt)</td>
<td>None Detected</td>
</tr>
<tr>
<td>Layer 2</td>
<td></td>
<td>A2466447</td>
<td>Yellow</td>
<td>Roof Field (foam)</td>
<td>None Detected</td>
</tr>
<tr>
<td>33</td>
<td>Layer 1</td>
<td>A2466448</td>
<td>Gray</td>
<td>Roof Field (felt)</td>
<td>None Detected</td>
</tr>
<tr>
<td>Layer 2</td>
<td></td>
<td>A2466448</td>
<td>Yellow</td>
<td>Roof Field (foam)</td>
<td>None Detected</td>
</tr>
<tr>
<td>Layer 3</td>
<td></td>
<td>A2466448</td>
<td>Black</td>
<td>Roof Field (tar)</td>
<td>None Detected</td>
</tr>
<tr>
<td>34</td>
<td>Layer 1</td>
<td>A2466449</td>
<td>Gray</td>
<td>Roof Field (felt)</td>
<td>None Detected</td>
</tr>
<tr>
<td>Layer 2</td>
<td></td>
<td>A2466449</td>
<td>Yellow</td>
<td>Roof Field (foam)</td>
<td>None Detected</td>
</tr>
<tr>
<td>Layer 3</td>
<td></td>
<td>A2466449</td>
<td>Black,Gray</td>
<td>Roof Field (membrane)</td>
<td>None Detected</td>
</tr>
<tr>
<td>35</td>
<td></td>
<td>A2466450</td>
<td>Off-white</td>
<td>Caulking</td>
<td>None Detected</td>
</tr>
<tr>
<td>36</td>
<td></td>
<td>A2466451</td>
<td>Off-white</td>
<td>Caulking</td>
<td>None Detected</td>
</tr>
<tr>
<td>37</td>
<td>Layer 1</td>
<td>A2466452</td>
<td>Gray</td>
<td>Roof Field (felt)</td>
<td>None Detected</td>
</tr>
<tr>
<td>Layer 2</td>
<td></td>
<td>A2466452</td>
<td>Yellow</td>
<td>Roof Field (foam)</td>
<td>None Detected</td>
</tr>
<tr>
<td>Layer 3</td>
<td></td>
<td>A2466452</td>
<td>White</td>
<td>Roof Field (decking)</td>
<td>None Detected</td>
</tr>
</tbody>
</table>
# ASBESTOS BULK ANALYSIS

**By: POLARIZING LIGHT MICROSCOPY**

**CEI Lab Code:** A17-11184  
**Date Received:** 08-07-17  
**Date Analyzed:** 08-08-17  
**Date Reported:** 08-08-17

**Client:** True North Consultants, Inc.  
1240 Iroquois Avenue, Suite 206  
Naperville, IL 60563

**Project:** Bloomingdale; T117492

## ASBESTOS BULK PLM, EPA 600 METHOD

<table>
<thead>
<tr>
<th>Client ID</th>
<th>Lab ID</th>
<th>Lab Description</th>
<th>Lab Attributes</th>
<th>NON-ASBESTOS COMPONENTS</th>
<th>ASBESTOS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td>Non-Fibrous</td>
<td>%</td>
</tr>
<tr>
<td>1</td>
<td>A2466416</td>
<td>Ceiling Tile</td>
<td>Heterogeneous</td>
<td>Cellulose</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gray,White</td>
<td>35%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td>25%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bound</td>
<td>10%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20%</td>
<td>Detected</td>
</tr>
<tr>
<td>2</td>
<td>A2466417</td>
<td>Ceiling Tile</td>
<td>Heterogeneous</td>
<td>Cellulose</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gray,White</td>
<td>35%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td>25%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bound</td>
<td>10%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>20%</td>
<td>Detected</td>
</tr>
<tr>
<td>3</td>
<td>A2466418</td>
<td>Drywall/Joint Compound &amp; Tape</td>
<td>Heterogeneous</td>
<td>Cellulose</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Off-white, Tan</td>
<td>20%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td>65%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bound</td>
<td>10%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5%</td>
<td>Detected</td>
</tr>
<tr>
<td>4</td>
<td>A2466419</td>
<td>Drywall/Joint Compound &amp; Tape</td>
<td>Heterogeneous</td>
<td>Cellulose</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Off-white, Tan</td>
<td>20%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td>65%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bound</td>
<td>10%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5%</td>
<td>Detected</td>
</tr>
<tr>
<td>5</td>
<td>A2466420</td>
<td>Drywall/Joint Compound &amp; Tape</td>
<td>Heterogeneous</td>
<td>Cellulose</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Off-white, Tan</td>
<td>20%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td>65%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bound</td>
<td>10%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5%</td>
<td>Detected</td>
</tr>
<tr>
<td>6</td>
<td>A2466421</td>
<td>Linoleum</td>
<td>Heterogeneous</td>
<td>Cellulose</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tan</td>
<td>20%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td>65%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bound</td>
<td>10%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5%</td>
<td>Detected</td>
</tr>
<tr>
<td>7</td>
<td>A2466422</td>
<td>Linoleum</td>
<td>Heterogeneous</td>
<td>Cellulose</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gray</td>
<td>20%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td>65%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bound</td>
<td>10%</td>
<td>Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5%</td>
<td>Detected</td>
</tr>
</tbody>
</table>

Page 1 of 9
# ASBESTOS BULK ANALYSIS

**By: POLARIZING LIGHT MICROSCOPY**

**Client:** True North Consultants, Inc.  
1240 Iroquois Avenue, Suite 206  
Naperville, IL 60563

**CEI Lab Code:** A17-11184  
**Date Received:** 08-07-17  
**Date Analyzed:** 08-08-17  
**Date Reported:** 08-08-17

**Project:** Bloomingdale; T117492

## ASBESTOS BULK PLM, EPA 600 METHOD

<table>
<thead>
<tr>
<th>Client ID</th>
<th>Lab ID</th>
<th>Lab Description</th>
<th>Lab Attributes</th>
<th>NON-ASBESTOS COMPONENTS</th>
<th>ASBESTOS %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Non-Fibrous</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Asbestos</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>A2466423A</td>
<td>3&quot; Baseboard</td>
<td>Heterogeneous</td>
<td>95%</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Black</td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tightly Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A2466423B</td>
<td>Mastic</td>
<td>Heterogeneous</td>
<td>2%</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tan</td>
<td>98%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>A2466424A</td>
<td>3&quot; Baseboard</td>
<td>Heterogeneous</td>
<td>95%</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Black</td>
<td>5%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tightly Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>A2466424B</td>
<td>Mastic</td>
<td>Heterogeneous</td>
<td>2%</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Tan</td>
<td>98%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>A2466425</td>
<td>Mud Joint Fittings</td>
<td>Heterogeneous</td>
<td>15%</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gray</td>
<td>25%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Loosely Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>A2466426</td>
<td>Mud Joint Fittings</td>
<td>Heterogeneous</td>
<td>15%</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gray</td>
<td>25%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Loosely Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>A2466427</td>
<td>Mud Joint Fittings</td>
<td>Heterogeneous</td>
<td>15%</td>
<td>None Detected</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gray</td>
<td>25%</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Loosely Bound</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**ASBESTOS BULK ANALYSIS**

*By: POLARIZING LIGHT MICROSCOPY*

---

**Client:** True North Consultants, Inc.  
1240 Iroquois Avenue, Suite 206  
Naperville, IL 60563

**CEI Lab Code:** A17-11184  
**Date Received:** 08-07-17  
**Date Analyzed:** 08-08-17  
**Date Reported:** 08-08-17

**Project:** Bloomingdale; T117492

---

**ASBESTOS BULK PLM, EPA 600 METHOD**

<table>
<thead>
<tr>
<th>Client ID</th>
<th>Lab ID</th>
<th>Lab Description</th>
<th>Lab Attributes</th>
<th>Non-Asbestos Components</th>
<th>Asbestos %</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>A2466428</td>
<td>Hvac Caulking</td>
<td>Heterogeneous</td>
<td>Fibrous: Tan, Gray</td>
<td>2%</td>
<td>85%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fibrous Bound</td>
<td></td>
<td>13%</td>
</tr>
</tbody>
</table>

| 14        | A2466429 | Hvac Caulking | Heterogeneous  | Fibrous: Tan, Gray     | 2%         | 85%   | None Detected |
|           |         |                 |                | Fibrous Bound           |            | 13%   |            |

| 15        | A2466430A| Floor Tile    | Heterogeneous  | Fibrous: Off-white, Black | <1%       | 90%   | None Detected |
|           |         |                 |                | Fibrous Tightly Bound    |            | 10%   |            |

|           | A2466430B| Mastic        | Heterogeneous  | Fibrous                | 2%         | 98%   | None Detected |
|           |         |                 |                | Black Bound             |            |       |            |

| 16        | A2466431A| Floor Tile    | Heterogeneous  | Fibrous: Off-white, Black | <1%       | 90%   | None Detected |
|           |         |                 |                | Fibrous Tightly Bound    |            | 10%   |            |

|           | A2466431B| Mastic        | Heterogeneous  | Fibrous                | 2%         | 98%   | None Detected |
|           |         |                 |                | Black Bound             |            |       |            |

| 17        | A2466432 | Mastics       | Heterogeneous  | Fibrous: Black, Green   | 7%         | 90%   | 3% Chrysotile |
|           |         |                 |                | Fibrous Bound            |            |       |            |

Lab Notes: Unable to separate mastics.

| 18        | A2466433 | Sample Not Analyzed | per COC | | | | |
# ASBESTOS BULK ANALYSIS

**By: POLARIZING LIGHT MICROSCOPY**

**Client:** True North Consultants, Inc.  
1240 Iroquois Avenue, Suite 206  
Naperville, IL 60563

**CEI Lab Code:** A17-11184  
**Date Received:** 08-07-17  
**Date Analyzed:** 08-08-17  
**Date Reported:** 08-08-17

**Project:** Bloomingdale; T117492

## ASBESTOS BULK PLM, EPA 600 METHOD

<table>
<thead>
<tr>
<th>Client ID</th>
<th>Lab Description</th>
<th>Lab Attributes</th>
<th>Non-Asbestos Components</th>
<th>Asbestos %</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lab ID</strong></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td>Non-Fibrous</td>
</tr>
<tr>
<td><strong>19</strong></td>
<td>3&quot; Baseboard</td>
<td>Heterogeneous</td>
<td>Celulose &lt;1%</td>
<td>Vinyl 90%</td>
</tr>
<tr>
<td>A2466434A</td>
<td></td>
<td>Green</td>
<td>Cellulose 10%</td>
<td>Calc Carb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tightly Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>20</strong></td>
<td>3&quot; Baseboard</td>
<td>Heterogeneous</td>
<td>Celulose &lt;1%</td>
<td>Vinyl 90%</td>
</tr>
<tr>
<td>A2466435A</td>
<td></td>
<td>Green</td>
<td>Cellulose 10%</td>
<td>Calc Carb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tightly Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>21</strong></td>
<td>3&quot; Baseboard</td>
<td>Heterogeneous</td>
<td>Celulose &lt;1%</td>
<td>Vinyl 95%</td>
</tr>
<tr>
<td>A2466436A</td>
<td></td>
<td>Black</td>
<td>Cellulose 5%</td>
<td>Calc Carb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tightly Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>22</strong></td>
<td>3&quot; Baseboard</td>
<td>Heterogeneous</td>
<td>Celulose &lt;1%</td>
<td>Vinyl 95%</td>
</tr>
<tr>
<td>A2466437A</td>
<td></td>
<td>Black</td>
<td>Cellulose 5%</td>
<td>Calc Carb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tightly Bound</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## ASBESTOS BULK PLM, EPA 600 METHOD

<table>
<thead>
<tr>
<th>Client ID</th>
<th>Lab ID</th>
<th>Lab Description</th>
<th>Lab Attributes</th>
<th>NON-ASBESTOS COMPONENTS</th>
<th>ASBESTOS %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cellulose</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Non-Fibrous</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| A2466437B | Mastic  | Heterogeneous Tan Fibrous Bound | 2% | Cellulose | 98% | Mastic | None Detected |
| A2466438A | Floor Tile | Heterogeneous Off-white Fibrous Tightly Bound | <1% | Cellulose | 90% | Vinyl Calc Carb | None Detected |
| A2466438B | Mastic  | Heterogeneous Black Fibrous Bound | 2% | Cellulose | 98% | Mastic | None Detected |
| A2466439A | Floor Tile | Heterogeneous Off-white Fibrous Tightly Bound | <1% | Cellulose | 90% | Vinyl Calc Carb | None Detected |
| A2466439B | Mastic  | Heterogeneous Black Fibrous Bound | 2% | Cellulose | 98% | Mastic | None Detected |
| A2466440  | Hvac Caulking | Heterogeneous Gray Fibrous Bound | 2% | Cellulose | 93% | Caulk Binder | None Detected |
| A2466441  | Hvac Caulking | Heterogeneous Gray Fibrous Bound | 2% | Cellulose | 93% | Caulk Binder | None Detected |
# ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

## Client:
True North Consultants, Inc.
1240 Iroquois Avenue, Suite 206
Naperville, IL 60563

CEI Lab Code: A17-11184
Date Received: 08-07-17
Date Analyzed: 08-08-17
Date Reported: 08-08-17

## Project:
Bloomingdale; T117492

## ASBESTOS BULK PLM, EPA 600 METHOD

<table>
<thead>
<tr>
<th>Client ID</th>
<th>Lab Description</th>
<th>Lab Attributes</th>
<th>Non-Asbestos Components</th>
<th>Asbestos %</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cellulose</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Vinyl</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Calc Carb</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mastic</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>None Detected</td>
<td></td>
</tr>
</tbody>
</table>

| 27        | Stair Tread     | Heterogeneous Black Fibrous Tightly Bound | <1% | Cellulose | 95% | Vinyl | 5% | Calc Carb | None Detected |
| A2466442A |                 |                                           |     |          |     |       |   |          |               |

| 28        | Stair Tread     | Heterogeneous Black Fibrous Tightly Bound | <1% | Cellulose | 95% | Vinyl | 5% | Calc Carb | None Detected |
| A2466443A |                 |                                           |     |          |     |       |   |          |               |

| 29        | Mud Joint Fittings | Heterogeneous Gray Fibrous Loosely Bound | 15% | Cellulose Fiberglass | 50% | Calc Carb Binder | None Detected |
| A2466444 |                 |                                           |     |          |     |       |   |          |               |

| 30        | Mud Joint Fittings | Heterogeneous Gray Fibrous Loosely Bound | 15% | Cellulose Fiberglass | 50% | Calc Carb Binder | None Detected |
| A2466445 |                 |                                           |     |          |     |       |   |          |               |

| 31        | Mud Joint Fittings | Heterogeneous Gray Fibrous Loosely Bound | 15% | Cellulose Fiberglass | 50% | Calc Carb Binder | None Detected |
| A2466446 |                 |                                           |     |          |     |       |   |          |               |
## ASBESTOS BULK ANALYSIS

**By: POLARIZING LIGHT MICROSCOPY**

**Client:** True North Consultants, Inc.
1240 Iroquois Avenue, Suite 206
Naperville, IL 60563

**CEI Lab Code:** A17-11184

**Date Received:** 08-07-17

**Date Analyzed:** 08-08-17

**Date Reported:** 08-08-17

**Project:** Bloomingdale; T117492

## ASBESTOS BULK PLM, EPA 600 METHOD

<table>
<thead>
<tr>
<th>Client ID</th>
<th>Lab Description</th>
<th>Lab Attributes</th>
<th>NON-ASBESTOS COMPONENTS</th>
<th>ASBESTOS %</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>32</strong></td>
<td>Roof Field (felt)</td>
<td>Heterogeneous</td>
<td>55% Cellulose 30% Binder</td>
<td>None Detected</td>
</tr>
<tr>
<td>Layer 1</td>
<td></td>
<td>Gray</td>
<td>15% Fiberglass</td>
<td></td>
</tr>
<tr>
<td>A2466447</td>
<td></td>
<td>Fibrous Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Layer 2</td>
<td>Roof Field (foam)</td>
<td>Heterogeneous</td>
<td>100% Foam</td>
<td>None Detected</td>
</tr>
<tr>
<td>A2466447</td>
<td></td>
<td>Yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-fibrous Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>33</strong></td>
<td>Roof Field (felt)</td>
<td>Heterogeneous</td>
<td>55% Cellulose 30% Binder</td>
<td>None Detected</td>
</tr>
<tr>
<td>Layer 1</td>
<td></td>
<td>Gray</td>
<td>15% Fiberglass</td>
<td></td>
</tr>
<tr>
<td>A2466448</td>
<td></td>
<td>Fibrous Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Layer 2</td>
<td>Roof Field (foam)</td>
<td>Heterogeneous</td>
<td>100% Foam</td>
<td>None Detected</td>
</tr>
<tr>
<td>A2466448</td>
<td></td>
<td>Yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-fibrous Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Layer 3</td>
<td>Roof Field (tar)</td>
<td>Heterogeneous</td>
<td>3% Cellulose 97% Tar</td>
<td>None Detected</td>
</tr>
<tr>
<td>A2466448</td>
<td></td>
<td>Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fibrous Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>34</strong></td>
<td>Roof Field (felt)</td>
<td>Heterogeneous</td>
<td>55% Cellulose 30% Binder</td>
<td>None Detected</td>
</tr>
<tr>
<td>Layer 1</td>
<td></td>
<td>Gray</td>
<td>15% Fiberglass</td>
<td></td>
</tr>
<tr>
<td>A2466449</td>
<td></td>
<td>Fibrous Bound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Layer 2</td>
<td>Roof Field (foam)</td>
<td>Heterogeneous</td>
<td>100% Foam</td>
<td>None Detected</td>
</tr>
<tr>
<td>A2466449</td>
<td></td>
<td>Yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-fibrous Bound</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## ASBESTOS BULK ANALYSIS

**By:** POLARIZING LIGHT MICROSCOPY

---

**Client:** True North Consultants, Inc.  
1240 Iroquois Avenue, Suite 206  
Naperville, IL 60563

CEI Lab Code: A17-11184  
Date Received: 08-07-17  
Date Analyzed: 08-08-17  
Date Reported: 08-08-17

**Project:** Bloomingdale; T117492

---

### ASBESTOS BULK PLM, EPA 600 METHOD

<table>
<thead>
<tr>
<th>Client ID</th>
<th>Lab ID</th>
<th>Lab Description</th>
<th>Lab Attributes</th>
<th>Non-Asbestos Components</th>
<th>Asbestos</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Fibrous</td>
<td>%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Non-Fibrous</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ASBESTOS</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Layer 3</th>
<th>A2466449</th>
<th>Roof Field (membrane)</th>
<th>Heterogeneous Black,Gray Fibrous Bound</th>
<th>Synthetic Fiber 25% 40%</th>
<th>Tar Gravel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Cellulose 93%</td>
<td>Caulk Binder</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>None Detected</td>
<td>Pass</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Layer 3</th>
<th>A2466450</th>
<th>Caulking</th>
<th>Heterogeneous Off-white Fibrous Bound</th>
<th>Cellulose 93%</th>
<th>Caulk Binder</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>None Detected</td>
<td>Pass</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Layer 3</th>
<th>A2466451</th>
<th>Caulking</th>
<th>Heterogeneous Off-white Fibrous Bound</th>
<th>Cellulose 93%</th>
<th>Caulk Binder</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>None Detected</td>
<td>Pass</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Layer 1</th>
<th>A2466452</th>
<th>Roof Field (felt)</th>
<th>Heterogeneous Gray Fibrous Bound</th>
<th>Cellulose 55%</th>
<th>Foam</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>None Detected</td>
<td>Pass</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Layer 2</th>
<th>A2466452</th>
<th>Roof Field (foam)</th>
<th>Heterogeneous Yellow Non-fibrous Bound</th>
<th>Cellulose 100%</th>
<th>Foam</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>None Detected</td>
<td>Pass</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Layer 3</th>
<th>A2466452</th>
<th>Roof Field (decking)</th>
<th>Heterogeneous White Fibrous Bound</th>
<th>Cellulose 20%</th>
<th>Gypsum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>None Detected</td>
<td>Pass</td>
</tr>
</tbody>
</table>
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: Scott Minyard

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director
**ASBESTOS CHAIN OF CUSTODY**

**COMPANY INFORMATION**
- **CEI CLIENT #:** True North Consultants
- **Company:** True North Consultants
- **Address:** 1240 Iroquois Ave, Suite 206
  Naperville, IL 60563
- **Email:** sfleisher@consulttruenorth.com
- **Tel:** 630-717-2880

**PROJECT INFORMATION**
- **Job Contact:** Steven Fleisher
- **Email / Tel:** 630-219-9862
- **Project Name:** Bloomingdale
- **Project ID#:** TII7492
- **STATE SAMPLES COLLECTED IN:**

**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.**

<table>
<thead>
<tr>
<th>ASBESTOS</th>
<th>METHOD</th>
<th>TURN AROUND TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLM BULK</td>
<td>EPA 600</td>
<td>4 HR</td>
</tr>
<tr>
<td>PLM POINT COUNT (400)</td>
<td>EPA 600</td>
<td>8 HR</td>
</tr>
<tr>
<td>PLM POINT COUNT (1000)</td>
<td>EPA 600</td>
<td>24 HR</td>
</tr>
<tr>
<td>PLM GRAV w POINT COUNT</td>
<td>EPA 600</td>
<td>2 DAY</td>
</tr>
<tr>
<td>PCM AIR</td>
<td>NIOSH 7400</td>
<td>3 DAY</td>
</tr>
<tr>
<td>TEM AIR AHERA</td>
<td>EPA AHERA</td>
<td>5 DAY</td>
</tr>
<tr>
<td>TEM AIR NIO SH</td>
<td>NIOSH 7402</td>
<td></td>
</tr>
<tr>
<td>TEM BULK</td>
<td>CHATFIELD</td>
<td></td>
</tr>
<tr>
<td>TEM DUST WIPE</td>
<td>ASTM D6480-05</td>
<td></td>
</tr>
<tr>
<td>TEM DUST MICR O VAC</td>
<td>ASTM D5755-09</td>
<td></td>
</tr>
<tr>
<td>TEM SOIL</td>
<td>ASTM D7521-13</td>
<td></td>
</tr>
<tr>
<td>TEM VERMICULITE</td>
<td>CINCINNATI METHOD</td>
<td></td>
</tr>
<tr>
<td>OTHER:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS:**
- **Accept Samples** ✓
- **Reject Samples** /

<table>
<thead>
<tr>
<th>Relinquished By:</th>
<th>Date/Time</th>
<th>Received By:</th>
<th>Date/Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steven Fleisher</td>
<td>8/4/17 4:15 pm</td>
<td>A</td>
<td>8/7/17 9:30</td>
</tr>
</tbody>
</table>

Samples will be disposed of 30 days after analysis.
<table>
<thead>
<tr>
<th>SAMPLE ID#</th>
<th>DESCRIPTION / LOCATION</th>
<th>VOLUME/AREA</th>
<th>TEST</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>2'x4' Ceiling Tile - Dot &amp; Gouge Pattern</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>3, 4, 5</td>
<td>Drywall, Tape, &amp; Joint Compound</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>6, 7</td>
<td>Linoleum - Beige, Green, &amp; Black</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>8, 9</td>
<td>3&quot; Baseboard - Black</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>10, 11, 12</td>
<td>Mud Joint Fittings</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>13, 14</td>
<td>HVAC Caulking - Carmel Color</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>15, 16</td>
<td>12&quot;x12&quot; Floor Tile &amp; Mastic-Pepper</td>
<td>Pattern</td>
<td>TEM</td>
</tr>
<tr>
<td>17, 18</td>
<td>Black Mastic</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>19, 20</td>
<td>3&quot; Baseboard - Light Green</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>21, 22</td>
<td>3&quot; Baseboard - Black</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>23, 24</td>
<td>12&quot;x12&quot; Floor Tile &amp; Mastic-White with Blue &amp; Gray</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>25, 26</td>
<td>HVAC Caulking - Gray</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>27, 28</td>
<td>Stair Tred</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>29, 30, 31</td>
<td>Mud Joint Fitting</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>32, 33</td>
<td>Roof Field</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>34</td>
<td>Roof Field</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>35, 36</td>
<td>Caulking - White</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td>37</td>
<td>Roof Field</td>
<td>PLM</td>
<td>TEM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX B
Asbestos Location Diagrams
BASEMENT—NO ACM IDENTIFIED
APPENDIX C
Consultant Licenses
APPENDIX D

Laboratory Accreditation
IDPH ASBESTOS PROFESSIONAL LICENSE

ID NUMBER 100 - 07745
ISSUED 2/23/2017
EXPIRES 05/15/2018

STEVEN J FLEISHER 2132 WHITEHORN DRIVE AURORA, IL 60504

ENDORSEMENTS
INSPECTOR

TC EXPIRES
1/6/2018

PROJECT MANAGER
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
Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Steven Fleisher

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: 1/6/2017
Exam Date: 1/6/2017
Expiration Date: 1/6/2018
Certificate Number: BIR1701060082

Kathy DeSalvo, Director
ATTACHMENT B

References
REFERENCE FORM

JOHNSTON RECREATION CENTER
172 SOUTH CIRCLE AVENUE, BLOOMINGDALE, ILLINOIS
ASBESTOS ABATEMENT

Reference No. 1

Project Name: ___________________________________________________________
Project Location: _________________________________________________________
Project Contact: __________________________________________________________

Name: ___________________________________________________________
Phone: ___________________________________________________________
Email: ___________________________________________________________
Address: ___________________________________________________________
City, State, Zip Code: _______________________________________________
Brief Description of Project inclusive of scope of work: _________________________
_______________________________________________________________________
_______________________________________________________________________

Reference No. 2

Project Name: ___________________________________________________________
Project Location: _________________________________________________________
Project Contact: __________________________________________________________

Name: ___________________________________________________________
Phone: ___________________________________________________________
Email: ___________________________________________________________
Address: ___________________________________________________________
City, State, Zip Code: _______________________________________________
Brief Description of Project inclusive of scope of work: _________________________
_______________________________________________________________________

Reference No. 3

Project Name: ___________________________________________________________
Project Location: _________________________________________________________
Project Contact: __________________________________________________________

Name: ___________________________________________________________
Phone: ___________________________________________________________
Email: ___________________________________________________________
Address: ___________________________________________________________
City, State, Zip Code: _______________________________________________
Brief Description of Project inclusive of scope of work: _________________________
_______________________________________________________________________
_______________________________________________________________________
ATTACHMENT C

Bloomingdale Park District Sample Contract Document
CONTRACT FOR PROJECT

This agreement, made this XXth day of Month, 2018 between the Bloomingdale Park District, hereinafter referred to as "Park District" and Contractor, hereinafter referred to as "Contractor."

WITNESSETH

That the Park District and Contractor, for the consideration hereinafter named, agree as follows:

Section I-Contract Documents

The Contract documents consist of this document ("the Contract"), the Project Manual issued by the Park District dated Month XX, 2018, and the completed proposal packet, including the completed bid form and any addenda thereto. These documents represent the entire agreement between the parties, and no statement, promise or inducement made by either party to the other that is not contained therein shall be binding. The terms or conditions of this contract may not be modified, except in writing signed by all the parties.

Section II- Contract Work

The Contractor shall provide the materials, services, and equipment to fully execute the Work described in the Contract Documents. The Work shall be furnished and completed in accordance with the Contract Documents.

Section III- Date of Commencement and Final Completion

The Work shall commence upon issuance of Notice to Proceed, expected to be released in Month 2018.

The Contractor shall be completed with the work by Month XX, 2018.

Time is of the essence for all matters concerning this Contract.

Section IV- Contract Sum

The Park District agrees to pay the Contractor for the performance of the Contract Work the sum of dollar amount in words ($X,XXX.XX). Payment shall be made to the Contractor by the Park District only after the Contractor has fully performed the Contract Work.

Section V- Additional Terms

1. The contractor, subcontractors, and suppliers shall perform all work required for the Project in a good and workmanlike manner.
2. To the extent that the Prevailing Wage Act applies, Contractor shall pay and require every Subcontractor to pay prevailing wages as established by the Illinois Department of Labor for each craft or type of work needed to execute the contract in accordance with 820 ILCS 130/.01 et seq. The Contractor shall prominently post the current schedule of prevailing wages at the Contract site and shall notify immediately in writing all of its Subcontractors, of all changes in the schedule of prevailing wages. Any increases in costs to the Contractor due to changes in the prevailing rate of wage during the terms of any contract shall be at the expense of the Contractor and not at the expense of the Owner. The change order shall be computed using the prevailing wage rates applicable at the time the change order work is scheduled to be performed. The Contractor shall be solely responsible to maintain accurate records as required by the prevailing wage statute and to obtain and furnish all such certified records to the District as required by Statute. The Contractor shall be solely liable for paying the difference between prevailing wages and any wages actually received by laborers, workmen and/or mechanics engaged in the Work and in every way defend and indemnify the District against any claims arising under or related to the payment of wages in accordance with the Prevailing Wage Act. The Contractor agrees that, prior to making any payments to its own laborers, workers or mechanics or to any subcontractor that it will determine and pay the then-current prevailing rate of wage as determined by the Illinois Department of Labor and posted at: http://www.illinois.gov/idol/Laws-Rules/CONMED/Pages/Rates.aspx.

3. Contractor shall comply with all applicable laws, regulations, and rules promulgated by any Federal, State, County, Municipal and or other governmental unit or regulatory body now in effect during the performance of the work, and the orders and decrees of any courts or administrative bodies or tribunals in any manner affecting the performance of this Contract. By way of example, the following are included within the scope of the laws, regulations and rules referred to in this paragraph, but in no way to operate as a limitation on the laws, regulations and rules with which Contractor must comply, are all forms of Workers Compensation Laws, all terms of the Equal Employment Opportunity Clause of the Illinois Fair Employment Practices Commission, the Illinois Preference Act, Illinois Substance Abuse Prevention on Works Projects Act, the Social Security Act, Statutes relating to contracts let by units of government, all applicable Civil Rights and Anti-Discrimination Laws and Regulations, and traffic and public utility regulations.

4. Contractor shall contact J.U.L.I.E. (1-800-892-0123) and have the worksite checked for buried utility lines prior to work.

5. Any and all documents and improvements subject to this agreement are, at all times, property of the Park District.

6. Contractor will be required to file a written substance abuse prevention program with the Park District for the prevention of substance abuse among its employees prior to the commencement of work.
7. **(DELETE PARAGRAPH IF VALUE OF PROJECT IS UNDER $50,000, OR IF YOU PREFER TO KEEP THE PERFORMANCE BOND REQUIREMENT)** For all projects where the contract sum is $50,000 or greater, Contractor shall provide a Surety Bond (guaranteeing both faithful performance and payment to subcontractors and material suppliers for labor and materials), naming the Bloomingdale Park District as Obligee, for not less than one hundred percent (100%) of the contract amount will be required prior to beginning construction and in a form approved by the Park District Attorney. Such bonds shall include the provision guaranteeing the faithful performance of the Prevailing Wage Act. The surety on the bond shall be a company that is licensed by the Department of Insurance authorizing it to execute surety bonds and the company shall have a financial strength rating of at least A- as rated by A.M. Best Company, Inc., Moody’s Investors Service, Standard & Poor’s Corporation, or a similar rating agency.

8. Contractor shall submit a Certificate of Insurance complying with the terms, per the Project Manual dated Month XX, 2018, prior to mobilization.

**Section VI- Insurance**

1. Contractor shall procure and maintain for the duration of this Agreement, insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the contractor’s operation and use of the premises. The cost of such insurance shall be borne by the Contractor.

2. **Minimum Scope of Insurance.**
   
   a. Coverage shall be at least as broad as:
      
      i. Broad Form Comprehensive General Liability, or the most recent revision.
      
      ii. Worker’s Compensation insurance as required by statute and Employers Liability insurance.
      
      iii. Contractors’ Pollution Legal Liability and/or Asbestos Legal Liability and/or Errors and Omissions (if project involves environmental hazards).

3. **Minimum Limits of Insurance.**
   
   Provider shall maintain limits no less than:
   
   a. General Liability: $1,000,000 combined single limit per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this location or shall be twice the required occurrence limit.
b. Workers’ Compensation and Employers Liability: Workers’ Compensation limits as required by statute and Employers Liability limits of $1,000,000 per accident and $1,000,000 per disease.

c. Contractors’ Pollution Legal Liability and/or Asbestos Legal Liability and/or Errors and Omissions (if project involves environmental hazards) with limits no less than $1,000,000 per occurrence or claim, and $2,000,000 policy aggregate.

Any deductible or self-insured retentions must be declared to, and approved by, the Park District. At the option of the Park District, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the Park District, its officers, elected and appointed officials, employees, volunteers, and agents; or the contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

The policies are to contain, or be endorsed to contain, the following provisions:
   a. General Liability.
      i. The Park District, its officers, elected and appointed officials, employees, volunteers and agents are to be covered as additional insureds as respects: liability arising out of premises owned, occupied, or used by the contractor and/or arising out of activities performed on or on behalf of the contractor. The coverage shall contain no special limitations on the scope of protection afforded to the Park District, its officers, elected and appointed officials, employees, volunteers, or agents.
      ii. The contractor’s insurance coverage shall be primary insurance as respects the Park District, its officers, elected and appointed officials, employees, volunteers, and agents. Any insurance or self-insurance maintained by the Park District, its officer, elected and appointed officials, employees, volunteers, or agents shall be excess of the Contractor’s insurance and shall not contribute with it.
      iii. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the Park District, its officers, elected and appointed officials, employees, volunteers, or agents.
      iv. Coverage shall state that the contractor’s insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer’s liability.

6. Worker’s Compensation and Employers Liability Coverage.
The insurer shall agree to waive all rights of subrogation against the Park District, its officers, elected and appointed officials, employees, volunteers, and agents for losses
arising from the use of the premises.

7. All Coverages.
   Each insurance policy required by this clause shall not be suspended, voided, canceled, reduced in coverage or in limits except after thirty (30) days prior written notice by certified mail, return receipt required, has been given to the Park District.

8. Acceptability of Insurers.
   Insurance is to be placed with insurers licensed to do business in Illinois.

9. Verification of Coverage.
   Contractor shall furnish the Park District with certificates of insurance and with original endorsements if applicable effecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.
   All certificates and endorsements are to be received and approved by the Park District before the premises are occupied. The Park District reserves the right to require complete certified copies of all required policies, at any time.

10. Indemnification Clause.
    Contractor shall, to the fullest extent permitted by law, waive any and all rights of contribution against the Park District and shall indemnify and hold harmless the Park District and its officers, elected and appointed officials, employees, volunteers and agents from and against all claims, damages, losses and expenses, including, but not limited to, legal fees (attorney’s and paralegal’s fees, expert fees and court costs) arising out of or resulting from the performance of the Contractor’s work, provided that any such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or injury to or destruction of property, other than the work itself, including the loss of use resulting therefrom, or is attributable to misuse or improper use of trademark or copyright protected material or otherwise protected intellectual property, to the extent it is caused in whole or in part by any wrongful or negligent act or omission of the Contractor, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable. Such obligation shall not be construed to negate, abridge or otherwise reduce any other right to indemnity that the Park District would otherwise have. The Contractor shall similarly, protect, indemnify and hold and save harmless, the Park District, its officers, elected and appointed officials, employees, volunteers and agents against and from any and all claims, costs, causes, actions and expenses, including, but not limited to, legal fees, incurred by reason of Contractor’s breach of any of its obligations under, or Contractor’s default of any provisions of the Contract. The indemnification obligations under this paragraph shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Contractor or any subcontractor under Workers’ Compensation or Disability Benefit Acts or Employee Benefit Acts. The rights and obligations of this Subsection 10 shall survive the voluntary or involuntary termination of this Contract.
Section VII- Assignment

This Contract is nonassignable in whole or in part by either party, and an assignment shall be void without the prior written consent of Park District, whose consent shall not be unreasonably withheld.

Section VIII- Contractor Status

Contractor acknowledges that it is an independent contractor; that it alone retains control of the manner of conducting its activities in furtherance of this Contract; that it as well as any persons or agents as it may employ are not employees of the Park District; and that neither this Contract, nor the administration thereof, shall operate to render or deem either party hereto the agent or employee of the other.

Section IX- Waiver of Terms

Waiver of any of the terms of this Contract shall not be valid unless it is in writing and signed by all parties. The failure of claimant to enforce the provisions of this Contract or require performance by opponent of any of the provisions shall not be construed as a waiver of such provisions or affect the right of claimant to thereafter enforce the provisions of this Contract. Waiver of any breach of this Contract shall not be held to be a waiver of any other or subsequent breach of the Contract.

Section X- Compliance with Freedom of Information Act.

Contractor agrees to maintain, without charge to the Park District, all records and documents for projects of the Park District in compliance with the Freedom of Information Act, 5 ILCS 140/1 et seq. In addition, Contractor shall produce records which are responsive to a request received by the Park District under the Freedom of Information Act so that the Park District may provide records to those requesting them within the time frames required. If additional time is necessary to compile records in response to a request, then Contractor shall so notify the Park District and if possible, the Park District shall request an extension so as to comply with the Act. In the event that the Park District is found to have not complied with the Freedom of Information Act due to Contractor’s failure to produce documents or otherwise appropriately respond to a request under the Act, then Contractor shall indemnify and hold the Park District harmless, and pay all amounts determined to be due including but not limited to fines, costs, attorneys’ fees and penalties.

Section XI – Human Rights Act (if project financed by funds from State of Illinois)

Pursuant to Section 2-105 of the Illinois Human Rights Act (775 ILCS 5/1-101 et seq.) (“Rights Act”), all Contractors/Contractors and Subcontractors must have in force and effect a written sexual harassment policy which includes at a minimum the following provisions:

1. a statement of illegality of sexual harassment;
2. the definition of sexual harassment under Illinois law;
3. a description of sexual harassment utilizing examples;
4. an internal complaint process, including penalties;
6. directions on how to contact the Department and the Commission; and
7. protection against retaliation as provided by Section 6-101 of the Rights Act.

The Contractor understands, represents and warrants to the Park District that Contractor and its subcontractors (for which the Contractor takes responsibility to ensure that they comply with the Rights Act) are in compliance with Section 2-105 of the Rights Act and will remain in compliance with Section 2-105 of the Rights Act for the entirety of the work. A violation of Section 2-105 is cause for the immediate cancellation of this Contract. However, any forbearance or delay by the Park District in canceling this Contract shall not be construed as, and does not constitute, Park District’s consent to such violation and a waiver of any rights the Park District may have, including without limitation, cancellation of this Contract.

Section XII - Other Applicable Laws

This contract shall be governed by the laws of the State of Illinois, which are incorporated herein. Any suit brought to enforce the provisions of this suit shall be filed in the Sixteenth Judicial Circuit, DuPage County, Illinois, but only after exhausting all possible administrative remedies. In any suit or action arising under this Contract, the prevailing party shall be entitled to an award of reasonable attorney’s fees and costs of litigation. No suit or action shall be maintained by the Contractor, its successors or assigns, against the Park District on any claim based upon or arising out of this Contract or out of anything done in connection with this Contract unless such action shall be commenced within one year of the voluntary or involuntary termination of this Contract.

Section XIII – Further Assurances

Contractor agrees to sign, execute and deliver, or cause to be signed, executed and delivered, and to do or make, or cause to be done or made, upon written request of the Park District, all agreements, instruments, papers, acts or things, supplemental, confirmatory or otherwise, as may be reasonably required by the Park District for the purpose of or in connection with goods and services described in the Contract.

IT IS MUTUALLY UNDERSTOOD AND AGREED that the Contractor shall have the full control of the ways and means of performing the work referred to above and that the Contractor or its employees, representatives or subcontractors are in no sense employees of the District, it being specifically agreed that the Contractor bears the relationship of an independent contractor to the District.
IN WITNESS WHEREOF the parties hereto have set their respective hands and seals the day and year first above written.

BLOOMINGDALE PARK DISTRICT  CONTRACTOR

By: ___________________________          By:____________________________