Poettker Construction

PARKWAY SCHOOL DISTRICT

WEST CAMPUS - WEH, WEM, ECC

BUILDING RENOVATION, SITE IMPROVEMENTS AND ABATEMENT

VOLUME ONE: GENERAL AND CONTRACT REQUIREMENTS

ISSUE FOR PERMIT/BID

PROJECT MANUAL

05 NOVEMBER 2026

PARKWAY SCHOOLS

BID NUMBER: 27-60

Owner's Project Number: PN542501B, PN652501B, PN432502B
Architect's Project Number: 26022, 26023, 26021

bond architects

Bond Architects, Inc.
222 South Central Avenue, Suite 501
St. Louis, MO 63105
314.863.4994
c-314-574-2193

SECTION 000107
SEALS PAGE

SEALS

1.01 OWNER'S PROJECT NUMBER: PN652501B

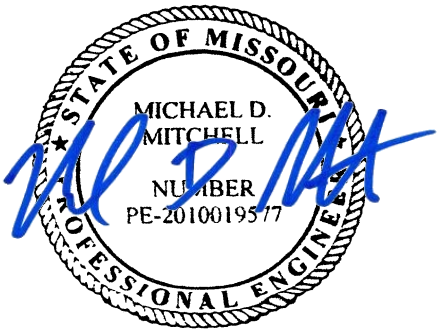
1.02 PROJECT TITLE: ECC WEST BUILDING RENOVATION AND SITE IMPROVEMENTS

1.03 PROJECT LOCATION: TRANSPORTATION BUILDING | 347 N. WOODS MILL RLOAD | CHESTERFIELD, MO 63017

1.04 THE SEALS THAT FOLLOW APPLY TO THE PROJECT MANUAL IN WHICH THIS SEALS PAGE IS BOUND FOR THE PROJECT IDENTIFIED ABOVE.



10/26/2026



10/27/2026



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END OF SECTION 000110

SECTION 001100
INVITATION TO BID

THE FACILITIES DEPARTMENT OF THE PARKWAY SCHOOL DISTRICT INVITES YOU TO BID ON THE FOLLOWING PROJECT:

1.01 PARKWAY WEST CAMPUS BUILDING RENOVATIONS AND SITE IMPROVEMENTS

A. **PN542501B, PN652501B, PN432502B - West Campus - WEH, WEM, ECC Building Renovations, Site Improvements, and Abatement AT West High | 14653 Clayton Road, Chesterfield, MO 63011**

B. **PN432502B - WEM Building Renovation and Abatement AT West Middle | 2312 Baxter Road, Chesterfield, MO 63017**

C. **PN652501B - ECC WEST Building Renovations and Site Improvements AT Early Childhood Center | 14605 Clayton Road, Chesterfield, MO 63011**

1.02 BIDS WILL BE RECEIVED AT:

A. Parkway School District

B. South High School

C. Library

D. 801 Hanna Rd.

E. Manchester, MO 63021

1.03 BIDS WILL BE RECEIVED ON OR BEFORE:

A. Thursday, December 3, 2025, at 3:30 p.m. CDT

1.04 ALL BIDS WILL BE PUBLICLY OPENED ON THE AFOREMENTIONED DATE AT THE SPECIFIED TIME AND PLACE.

A. Bids may not be withdrawn for at least sixty (60) days after the closing date for receipt of Bids.

B. Bids will be based on multiple Bid Packages. See Section 011010 for specific inclusion and responsibility.

1.05 THE OWNER FOR THE PROJECT IS:

A. Parkway School District
455 North Woods Mill Road
Chesterfield, Missouri 63017

1.06 THE OWNER'S REPRESENTATIVE FOR THE PROJECT IS:

A. Ben Betts
Construction Manager
Parkway School District
363 North Woods Mill Road
Chesterfield, Missouri 63017
Telephone: (314) 415-8279
E-mail: bbetts@parkwayschools.net

1.07 THE ARCHITECT FOR THE PROJECT IS:

A. Bond Architects
222 South Central Avenue, Suite 501
St. Louis, Missouri 63105
Tel: (314) 863-4994, Fax: (314) 863-4995

1.08 NOTE: BIDDERS SHALL DIRECT ALL QUESTIONS AND CLARIFICATIONS TO THE CONSTRUCTION MANAGER.

1.09 COPIES OF THE BIDDING DOCUMENTS MAY BE OBTAINED FROM 8:00 A.M. TO 5:00 P.M., MONDAY THROUGH FRIDAY COMMENCING ON TUESDAY, NOVEMBER 5, 2026, AT 12:00 P.M. CDT, THROUGH DOCUMENT IMAGING SYSTEMS, INC., 1463 SOUTH VANDEVENTER AVENUE, ST. LOUIS, MISSOURI, 63110 (TELEPHONE NUMBER 314-531-0167).

A. The bid package can be viewed and ordered 24/7 through their website at https://parkwayschools.bonfirehub.com/portal/?tab=openOpportunities.
   1. Cick on "Open Public Opportunities" tab at top of page.
   2. Click on "View Opportunity" for "Ref # 27-60".

B. The bid package is available for purchase and there will be no deposit or refund.

1.10 BIDDING DOCUMENTS ARE ON FILE AT:

A. Associated General Contractors of Missouri, 6330 Knox Industrial Drive, St. Louis, Missouri, 63139, www.agcmo.org

B. Dodge Construction Network, www.construction.com

C. ConstructConnect, https://projects.constructconnect.com

1.11 A RECOMMENDED ATTENDANCE PRE-BID CONFERENCE IS SCHEDULED FOR WEDNESDAY, NOVEMBER 11, 2026, AT 1:00 P.M. CST. MEET AT THE FRONT ENTRANCE TO WEST HIGH SCHOOL

A. Directions to the pre-bid conference may be obtained by contacting the Construction Manager.

1.12 A BID BOND WILL BE REQUIRED IN THE AMOUNT OF TEN PERCENT (10%) OF THE AMOUNT OF THE BIDDER'S BID.

A. The Bid Bond must accompany the Bid in order for the Bid to be accepted.

1.13 AN EXECUTED CONTRACTOR'S QUALIFICATION STATEMENT, AIA DOCUMENT A305 INCLUDING A QUARTERLY OR ANNUAL FINANCIAL STATEMENT NOT OVER 12 MONTHS OLD MUST BE DELIVERED UPON OWNER'S REQUEST.

A. Financial statements will be returned to the Bidder upon request received prior to the Notice To Proceed Date.

B. All financial statements not requested to be returned shall be shredded and disposed of following the Notice To Proceed Date.

1.14 IT IS ANTICIPATED THAT THE SUCCESSFUL BIDDER WILL BE GIVEN NOTICE TO PROCEED ON JANUARY 14, 2027 WITH SUBSTANTIAL COMPLETION TO OCCUR ON OR BEFORE AUGUST 18, 2028.

A. The Bidder for each bid package will be allowed to order equipment, materials, and supplies as necessary upon entering into the Agreement Between Construction Manager and Contractor.

1.15 IT IS ANTICIPATED THAT A CONTINGENT AGREEMENT WILL BE PRESENTED TO THE SUCCESSFUL BIDDER FOR SIGNATURE ON DECEMBER 10, 2027 PENDING FORMAL BOARD APPROVAL AT THE FOLLOWING MONTH'S BOARD MEETING.

1.16 PAYMENTS WILL BE MADE BY THE CONSTRUCTION MANAGER WITHIN APPROXIMATELY TEN (10) BUSINESS DAYS, BUT NOT LATER THAN THIRTY (30) CALENDAR DAYS AFTER RECEIPT OF AN APPLICATION AND CERTIFICATE FOR PAYMENT WHICH RECEIVES APPROVAL.

1.17 NOT LESS THAN THE PREVAILING HOURLY RATES OF WAGES FOR WORK OF A SIMILAR CHARACTER IN THE LOCALITY IN WHICH THE WORK IS PERFORMED, ALL AS MORE FULLY SET OUT IN THE DETAILED SPECIFICATIONS FOR THIS PROJECT, SHALL BE PAID TO ALL WORKERS EMPLOYED ON SAID PROJECT.

1.18 CONTRACTOR AND SUBCONTRACTORS SHALL PROVIDE A OCCUPATIONAL SAFETY AND HEALTH (OSHA) TEN-HOUR CONSTRUCTION SAFETY AND HEALTH PROGRAM FOR THEIR ON-SITE EMPLOYEES WHICH INCLUDES A COURSE IN CONSTRUCTION SAFETY AND HEALTH APPROVED BY OSHA OR A SMILILAR PROGRAM APPROVED BY THE MISSOURI DEPATMENT OF LABOR WHICH IS AT LEAST AS STRINGENT AS AN APPROVED OSHA PROGRAM, UNLESS SUCH EMPLOYEES HAVE PREVIOUSLY COMPLETED THE REQUIRED PROGRAM.

END OF INVITATION TO BID

SECTION 002000
INSTRUCTION TO BIDDERS

PART 1 GENERAL

1.01 SUMMARY

A. Document Includes:
   1. Instructions to Bidders.
   2. Site examination.
   3. Bidding Schedule.

B. Related Documents:
   1. Document 000010 – Bid Solicitation.
   2. Document 004100 – Bid Form - Stipulated Sum
   3. Document 004300 – Procurement Form Supplements
   4. Document 007210 – General Conditions

1.02 INSTRUCTIONS TO BIDDERS

A. See AIA document A701-2018, INSTRUCTIONS TO BIDDERS is hereby made part of these bidding documents.

B. These Instructions to Bidders amend or supplement AIA Document A701-1997 - Instructions to Bidders and other provisions of Bidding Documents and Contract Documents.

C. To be considered all bids must in accordance with these Instructions to Bidders.

D. Those interested parties may obtain sets of Drawings and Specifications from the Architects/Engineer.

1.03 SITE EXAMINATION

A. Bidders shall carefully examine documents and construction site to obtain first-hand knowledge of existing conditions. Contractors will not be given extra payments for conditions which can be determined by examining site and these documents.

B. Contact the Construction Manager at the following address and phone number to arrange a date and time to visit the Project Site:
   1. Address: 400 South Germantown Rd., Breese, IL 62230
   2. Telephone: 618-526-7213

1.04 THE SCHEDULE FOR BIDDING THIS PROJECT IS AS FOLLOWS

A. Plans Available
   1. November 5, 2026 @ 400 PM CST

B. Pre-Bid Meeting
   1. November 11, 2026 @ 1 00 PM CST
      a. West High | 14653 Clayton Road, Chesterfield, MO 63011

C. Latest Time to Submit Request for Interpretation:
   1. November 26, 2026 @ 3 00 PM CST

D. Latest Time to Issue an Addendum
   1. December 1, 2026 @ 12 00 PM CST

E. Bid Opening
   1. December 3, 2026 @ 3 30 PM CST
   2. Parkway School District
      a. South High | 801 Hanna Road, Manchester, MO 63021

1.05 BIDDING INSTRUCTIONS

A. All requests for interpretations shall be in writing via e-mail and addressed to the Construction Manager and must be received by the date and time identified in Article 1.4 of this section in order to be given consideration. All questions must be submitted/titled as “Request for Clarification Pre-Bid Question and Comment Form” or e-mailed using the name and “Request for Clarification Pre-Bid Question” in the subject line of the e-mail. The form is included at the end of this section. Questions not submitted in accordance with this form and specified time frame will not be accepted. Any and all interpretations and supplemental instructions will be made by addendum to the Drawings and Specifications and forwarded to all bidders on plan room distribution lists via email. All responses will also be posted to plan rooms listed in section 000010 – Bid Solicitation. All responses by the Construction Manager must be in writing to be binding. Any response general in nature or affecting these Instructions to Bidders shall be sent via addendum as previously described. All bidders are required to return the signature page of the addendum signed to the Construction Manager within 24 hours after receipt. Failure of any bidder to receive any such addendum or interpretations shall not relieve such bidder from an obligation under the bid as submitted. All addenda so issued shall become part of the Contract Documents. No addendum will be issued later than the date and time identified in Article 1.4 of this section except one withdrawing the request for Bids or one postponing date for receiving Bids. Oral interpretations, changes or corrections will not be binding and Bidders shall not rely upon such interpretations, changes and corrections. Each Bidder shall ascertain prior to submitting Bid that all addenda issued have been received and shall acknowledge receipt in Bid.
   1. Questions shall be directed to:
      a. Chris Funston
      b. cfunston@poettkerconstruction.com

B. Materials products and equipment described in Bidding Documents establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution. No substitution will be considered prior to receipt of Bids unless written request for approval has been received by the Architect at least ten days prior to the date for receipt of Bids. Each such request shall include name of material or equipment for which it is to be substituted and a complete description of the proposed substitute including drawings, cuts, performance and test data and any other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment or other work that incorporation of the substitute would require shall be included. The burden of proof of the merit of proposed substitute is upon the proposer. Architect's decision of approval or disapproval of a proposed substitution shall be final. If the Architect approves any proposed substitution prior to receipt of Bids, such approval will be set forth in an addendum. Bidders shall not rely upon approvals made in any other manner. No substitutions will be considered after the contract award unless specifically provided in the Contract Documents.

C. Bids shall be made on unaltered Bid Forms furnished by the Construction Manager. Fill in all blank spaces and submit one (1) copy. Bids shall be signed with name typed below signature. Where bidder is a corporation, bids must be signed with legal name of corporation followed by name of state of incorporation and legal signature of an officer authorized to bind the corporation to a contract.

D. Each bidder submitting a bid shall submit on form provided a list of any subcontractors and major suppliers proposed to use with the bid. Failure to do so could disqualify the bid.

E. Each bidder shall designate on the attached bid form one person who shall serve as the bidder’s contact person for all matters pertaining to the bid. In absence of such designation, the person who signs the bid shall be deemed the bidder contact.

F. Each bid shall be accompanied by bid bond made payable to the Owner, in the amount of ten percent (10%) of the bid sum. Security shall be either certified check, cashier's check, bank money order or bid bond issued by surety licensed to conduct business in the State of Missouri. Successful bidder's security will be retained until he has signed the contract and furnished required payment and performance bonds. Owner reserves the right to retain security of the next two (2) lowest bidders until the lowest bidder enters into contract or until sixty (60) days after bid opening, whichever is shorter. All other bid security will be returned as soon as practicable. If any bidder refuses to enter into a contract, Owner will retain bid security as liquidated damages, but not as a penalty.

G. All costs associated with the preparation and submission of a bid is the sole responsibility of the bidder. These costs shall not be chargeable to the Owner by any successful or unsuccessful bidder. All bids become the property of the Owner and shall not be returned except in the case of a late submission.

H. Simultaneously, with delivery of the executed contract, the successful bidder, at its own expense, shall furnish surety in the form of a performance bond and a labor and material payment bond in the amount of One Hundred Percent (100%) of the contract amount. Surety for such bonds shall be a company duly authorized and licensed in the State of Missouri and acceptable to the Owner. The Attorney-In-Fact who signs bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

I. All copies of the bid and any other documents required to be submitted with bid shall be enclosed in a sealed opaque envelope. Envelope shall be identified with "_____"- Bid Package # (Number as required)", bidder's name and address. Mailed bid envelopes shall be enclosed in a separate mailing envelope with the notation "SEALED BID ENCLOSED" on the face thereof. Oral, telephonic or telegraphic bids are invalid and will not receive consideration. Bids shall be deposited at the location designated in the Bid Solicitation prior to time and date designated for opening, or any extension thereof made by addendum. Bidder shall assume full responsibility for timely delivery at location designated for receipt of Bids. Bids received after time and date for receipt of bids will be returned unopened.

J. A bid may not be modified, withdrawn or canceled during the Sixty (60) Days immediately following bid opening, and each bidder so agrees in submitting his Bid. Any bidder may withdraw, cancel or modify its bid, at any time prior to scheduled time for opening of bids, by letter or telegram actually received by Owner prior to bid time, or, with proper identification, by personally securing bid submitted; if by telegram, written confirmation over signature of bidder shall be mailed and postmarked on or before date and time of bid opening. Withdrawn bids may be resubmitted up to bid opening time provided that they are in full compliance with these Instructions to Bidders.

K. Protests
   1. Any bidder who submitted a bid and believes the bid was improperly rejected or that the bid selected by the Owner is not in the best interest of the Owner may submit a written notice of intent to protest the bid to the Owner within two (2) days. The Owner shall consider all protests before execution of a contract. Each protest must specify the reasons supporting the protest. The Owner may require that additional information be provided. Failure to supply such required information shall be cause for dismissal of the protest.
   2. The Owner shall immediately investigate the allegations against the Owners actions and shall issue a written response to the protest.
   3. This provision allowing for the submission of protest shall not confer any right on any bidder but is intended solely to assist the Owner in determining the best responsible bid.

L. Any complaint or protest of the bidding procedure must be filed by the bidder to the Owner. Within 2 days of bid opening the bidder shall notify the Owner in writing of his intent to protest bidding. The bidder shall perfect this notice of intent within 3 days.

M. Whenever in its opinion it is in the best interest of the Owner, the Owner reserves the right to accept any bid, reject any or all bids, waive technical deficiencies and irregularities, allow bidder to remedy technical deficiencies or irregularities within a stated time, rescind any notice of award if the owner determines the notice of award was issued in error, rebid any contract, disqualify bids and bidders, before or after opening, upon evidence of collusion with intent to defraud or other illegal practices upon part of bidder, lack of responsibility as evidenced by poor workmanship and progress of past work, incomplete work which, in judgment of Owner, might hinder or prevent prompt completion of additional work if awarded, for being in arrears on existing contracts, in litigation with the Owner, or having defaulted on a previous contract.

N. Bidder's attention is directed to the fact that all Federal and Missouri State Laws, municipal ordinances and regulations of any and all authority having jurisdiction over construction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full.

O. Owner is exempt from payment of Federal & Missouri Department of Revenue’s Use and Sales Tax on material entering permanently into structure. Retail sales tax shall not be included in the bid amount. Tax identification number(s) will be provided in conjunction with execution of the Agreement.

P. Bids will be opened as announced in Bid Solicitation.

Q. Owner reserves the right to reject any or all bids or any part thereof, to waive any informalities in bidding and to accept bids deemed most favorable to the Owner.

R. Notwithstanding any delay in preparation and execution of the formal Contract Agreement, each bidder shall be prepared, upon written notice of bid acceptance, to commence work on dates stipulated in such notice.

S. Any work in providing or preparing to provide the services specified herein that is commenced by the successful bidder prior to execution of a written contract agreement shall be at the bidder’s expense.

T. Accepted bidder shall assist and cooperate with the Owner in preparing the formal Contract Agreement, and within two (2) days following its presentation shall execute same and return it to Owner.

U. Contract Time: Work performed under this Contract shall be commenced on the date stipulated in written Notice to Proceed and, subject to authorized adjustments; all work at the site shall be Substantially Complete no later than the date identified on the milestone schedule.

V. The Owner requires background screening to be completed on all contractor/subcontractor employees. All employees must have documentation that a background screening has been completed on them prior to working on any district projects. The background screening is to be conducted by a firm approved to conduct background checks in the State of Missouri. Each employee must complete, sign, and date the Consent and Waiver Release form. These forms will be submitted and the applicant cleared before the applicant may work on any part of the school grounds. The Contractor is responsible for submitting the forms to a firm approved to conduct background checks in the State of Missouri, and for any costs involved in the screening. All information received as a result of a background check will be strictly confidential. A notice of automatic disqualification will be sent to the hiring or using entity. After the screenings, the Contractor is also responsible for sending the Construction Manager copies of approved background checks for their records.

W. Combination bids will be accepted. If providing a combination bid, bidder must ALSO submit a bid for each respective individual bid package that is included with the combination bid. Individual bids and combination bids shall be on the same bid form. Bidders must be able to self -perform a minimum of 15% of each individual bid package unless noted otherwise.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 002000

AIA® Document A701® – 2018

Instructions to Bidders

for the following Project:
(Name, location, and detailed description)

PN432502B – West Middle School
2312 Baxter Road
Chesterfield, Missouri 63017

PN542501B – West High School
14653 Clayton Road
Ballwin, Missouri 63011

PN652501B – Early Childhood Center West
14605 Clayton Road
Ballwin, Missouri 63011

Bid No. 27-60

THE OWNER:
(Name, legal status, address, and other information)

THE ARCHITECT:
(Name, legal status, address, and other information)

Bond Architect, Inc.
222 South Central Avenue; Suite 501
Clayton, Missouri 63105
Telephone Number: 314-863-4994

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

FEDERAL, STATE, AND LOCAL LAWS MAY IMPOSE REQUIREMENTS ON PUBLIC PROCUREMENT CONTRACTS. CONSULT LOCAL AUTHORITIES OR AN ATTORNEY TO VERIFY REQUIREMENTS APPLICABLE TO THIS PROCUREMENT BEFORE COMPLETING THIS FORM.

It is intended that AIA Document G612™–2017, Owner's Instructions to the Architect, Parts A and B will be completed prior to using this document.

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ARTICLE 1 DEFINITIONS

§ 1.1 Bidding Documents include the Bidding Requirements and the Proposed Contract Documents. The Bidding Requirements consist of the advertisement or invitation to bid, Instructions to Bidders, supplementary instructions to bidders, the bid form, and any other bidding forms. The Proposed Contract Documents consist of the unexecuted form of Agreement between the Owner and Contractor and that Agreement's Exhibits, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, all Addenda, and all other documents enumerated in Article 8 of these Instructions.

§ 1.2 Definitions set forth in the General Conditions of the Contract for Construction, or in other Proposed Contract Documents apply to the Bidding Documents.

§ 1.3 Addenda are written or graphic instruments issued by the Architect, which, by additions, deletions, clarifications, or corrections, modify or interpret the Bidding Documents.

§ 1.4 A Bid is a complete and properly executed proposal to do the Work for the sums stipulated therein, submitted in accordance with the Bidding Documents.

§ 1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents, to which Work may be added or deleted by sums stated in Alternate Bids.

§ 1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from, or that does not change, the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

§ 1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, as described in the Bidding Documents.

§ 1.8 A Bidder is a person or entity who submits a Bid and who meets the requirements set forth in the Bidding Documents.

§ 1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials, equipment, or labor for a portion of the Work.

ARTICLE 2 BIDDER'S REPRESENTATIONS

§ 2.1 By submitting a Bid, the Bidder represents that:

- **.1** the Bidder has read and understands the Bidding Documents;
- **.2** the Bidder understands how the Bidding Documents relate to other portions of the Project, if any, being bid concurrently or presently under construction;
- **.3** the Bid complies with the Bidding Documents;
- **.4** the Bidder has visited the site, become familiar with local conditions under which the Work is to be performed, and has correlated the Bidder's observations with the requirements of the Proposed Contract Documents;
- **.5** the Bid is based upon the materials, equipment, and systems required by the Bidding Documents without exception; and
- **.6** the Bidder has read and understands the provisions for liquidated damages, if any, set forth in the form of Agreement between the Owner and Contractor.

ARTICLE 3 BIDDING DOCUMENTS

§ 3.1 Distribution

§ 3.1.1 Bidders shall obtain complete Bidding Documents, as indicated below, from the issuing office designated in the advertisement or invitation to bid, for the deposit sum, if any, stated therein.
(Indicate how, such as by email, website, host site/platform, paper copy, or other method Bidders shall obtain Bidding Documents.)

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§ 3.1.2 Any required deposit shall be refunded to Bidders who submit a bona fide Bid and return the paper Bidding Documents in good condition within ten days after receipt of Bids. The cost to replace missing or damaged paper documents will be deducted from the deposit. A Bidder receiving a Contract award may retain the paper Bidding Documents, and the Bidder's deposit will be refunded.

§ 3.1.3 Bidding Documents will not be issued directly to Sub-bidders unless specifically offered in the advertisement or invitation to bid, or in supplementary instructions to bidders.

§ 3.1.4 Bidders shall use complete Bidding Documents in preparing Bids. Neither the Owner nor Architect assumes responsibility for errors or misinterpretations resulting from the use of incomplete Bidding Documents.

§ 3.1.5 The Bidding Documents will be available for the sole purpose of obtaining Bids on the Work. No license or grant of use is conferred by distribution of the Bidding Documents.

§ 3.2 Modification or Interpretation of Bidding Documents

§ 3.2.1 The Bidder shall carefully study the Bidding Documents, shall examine the site and local conditions, and shall notify the Architect of errors, inconsistencies, or ambiguities discovered and request clarification or interpretation pursuant to Section 3.2.2.

§ 3.2.2 Requests for clarification or interpretation of the Bidding Documents shall be submitted by the Bidder in writing and shall be received by the Architect at least seven days prior to the date for receipt of Bids.
(Indicate how, such as by email, website, host site/platform, paper copy, or other method Bidders shall submit requests for clarification and interpretation.)

§ 3.2.3 Modifications and interpretations of the Bidding Documents shall be made by Addendum. Modifications and interpretations of the Bidding Documents made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3 Substitutions

§ 3.3.1 The materials, products, and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.

§ 3.3.2 Substitution Process

§ 3.3.2.1 Written requests for substitutions shall be received by the Architect at least ten days prior to the date for receipt of Bids. Requests shall be submitted in the same manner as that established for submitting clarifications and interpretations in Section 3.2.2.

§ 3.3.2.2 Bidders shall submit substitution requests on a Substitution Request Form if one is provided in the Bidding Documents.

§ 3.3.2.3 If a Substitution Request Form is not provided, requests shall include (1) the name of the material or equipment specified in the Bidding Documents; (2) the reason for the requested substitution; (3) a complete description of the proposed substitution including the name of the material or equipment proposed as the substitute, performance and test data, and relevant drawings; and (4) any other information necessary for an evaluation. The request shall include a statement setting forth changes in other materials, equipment, or other portions of the Work, including changes in the work of other contracts or the impact on any Project Certifications (such as LEED), that will result from incorporation of the proposed substitution.

§ 3.3.3 The burden of proof of the merit of the proposed substitution is upon the proposer. The Architect's decision of approval or disapproval of a proposed substitution shall be final.

§ 3.3.4 If the Architect approves a proposed substitution prior to receipt of Bids, such approval shall be set forth in an Addendum. Approvals made in any other manner shall not be binding, and Bidders shall not rely upon them.

§ 3.3.5 No substitutions will be considered after the Contract award unless specifically provided for in the Contract Documents.

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§ 3.4 Addenda

§ 3.4.1 Addenda will be transmitted to Bidders known by the issuing office to have received complete Bidding Documents.

(Indicate how, such as by email, website, host site/platform, paper copy, or other method Addenda will be transmitted.)

§ 3.4.2 Addenda will be available where Bidding Documents are on file.

§ 3.4.3 Addenda will be issued no later than ***two*** days prior to the date for receipt of Bids, except an Addendum withdrawing the request for Bids or one which includes postponement of the date for receipt of Bids.

§ 3.4.4 Prior to submitting a Bid, each Bidder shall ascertain that the Bidder has received all Addenda issued, and the Bidder shall acknowledge their receipt in the Bid.

ARTICLE 4 BIDDING PROCEDURES

§ 4.1 Preparation of Bids

§ 4.1.1 Bids shall be submitted on the forms included with or identified in the Bidding Documents.

§ 4.1.2 All blanks on the bid form shall be legibly executed. Paper bid forms shall be executed in a non-erasable medium.

§ 4.1.3 Sums shall be expressed in both words and numbers, unless noted otherwise on the bid form. In case of discrepancy, the amount entered in words shall govern.

§ 4.1.4 Edits to entries made on paper bid forms must be initialed by the signer of the Bid.

§ 4.1.5 All requested Alternates shall be bid. If no change in the Base Bid is required, enter "No Change" or as required by the bid form.

§ 4.1.6 Where two or more Bids for designated portions of the Work have been requested, the Bidder may, without forfeiture of the bid security, state the Bidder's refusal to accept award of less than the combination of Bids stipulated by the Bidder. The Bidder shall neither make additional stipulations on the bid form nor qualify the Bid in any other manner.

§ 4.1.7 Each copy of the Bid shall state the legal name and legal status of the Bidder. As part of the documentation submitted with the Bid, the Bidder shall provide evidence of its legal authority to perform the Work in the jurisdiction where the Project is located. Each copy of the Bid shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A Bid by a corporation shall further name the state of incorporation and have the corporate seal affixed. A Bid submitted by an agent shall have a current power of attorney attached, certifying the agent's authority to bind the Bidder.

§ 4.1.8 A Bidder shall incur all costs associated with the preparation of its Bid.

§ 4.2 Bid Security

§ 4.2.1 Each Bid shall be accompanied by the following bid security:

(Insert the form and amount of bid security.)

§ 4.2.2 The Bidder pledges to enter into a Contract with the Owner on the terms stated in the Bid and shall, if required, furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder. Should the Bidder refuse to enter into such Contract or fail to furnish such bonds if required, the amount of the bid security shall be forfeited to the Owner as liquidated damages, not as a penalty. In the event the Owner fails to comply with Section 6.2, the amount of the bid security shall not be forfeited to the Owner.

§ 4.2.3 If a surety bond is required as bid security, it shall be written on AIA Document A310™, Bid Bond, unless otherwise provided in the Bidding Documents. The attorney-in-fact who executes the bond on behalf of the surety shall

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affix to the bond a certified and current copy of an acceptable power of attorney. The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 4.2.4 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until (a) the Contract has been executed and bonds, if required, have been furnished; (b) the specified time has elapsed so that Bids may be withdrawn; or (c) all Bids have been rejected. However, if no Contract has been awarded or a Bidder has not been notified of the acceptance of its Bid, a Bidder may, beginning days after the opening of Bids, withdraw its Bid and request the return of its bid security.

§ 4.3 Submission of Bids

§ 4.3.1 A Bidder shall submit its Bid as indicated below:
(Indicate how, such as by website, host site/platform, paper copy, or other method Bidders shall submit their Bid.)

§ 4.3.2 Bids shall be submitted by the date and time and at the place indicated in the invitation to bid. Bids submitted after the date and time for receipt of Bids, or at an incorrect place, will not be accepted.

§ 4.3.3 The Bidder shall assume full responsibility for timely delivery at the location designated for receipt of Bids.

§ 4.3.4 A Bid submitted by any method other than as provided in this Section 4.3 will not be accepted.

(Paragraph deleted)

§ 4.4 Modification or Withdrawal of Bid

§ 4.4.1 Prior to the date and time designated for receipt of Bids, a Bidder may submit a new Bid to replace a Bid previously submitted, or withdraw its Bid entirely, by notice to the party designated to receive the Bids. Such notice shall be received and duly recorded by the receiving party on or before the date and time set for receipt of Bids. The receiving party shall verify that replaced or withdrawn Bids are removed from the other submitted Bids and not considered. Notice of submission of a replacement Bid or withdrawal of a Bid shall be worded so as not to reveal the amount of the original Bid.

§ 4.4.2 Withdrawn Bids may be resubmitted up to the date and time designated for the receipt of Bids in the same format as that established in Section 4.3, provided they fully conform with these Instructions to Bidders. Bid security shall be in an amount sufficient for the Bid as resubmitted.

§ 4.4.3 After the date and time designated for receipt of Bids, a Bidder who discovers that it made a clerical error in its Bid shall notify the Architect of such error within two days, or pursuant to a timeframe specified by the law of the jurisdiction where the Project is located, requesting withdrawal of its Bid. Upon providing evidence of such error to the reasonable satisfaction of the Architect, the Bid shall be withdrawn and not resubmitted. If a Bid is withdrawn pursuant to this Section 4.4.3, the bid security will be attended to as follows:
(State the terms and conditions, such as Bid rank, for returning or retaining the bid security.)

ARTICLE 5 CONSIDERATION OF BIDS

§ 5.1 Opening of Bids

If stipulated in an advertisement or invitation to bid, or when otherwise required by law, Bids properly identified and received within the specified time limits will be publicly opened and read aloud. A summary of the Bids may be made available to Bidders.

§ 5.2 Rejection of Bids

Unless otherwise prohibited by law, the Owner shall have the right to reject any or all Bids.

§ 5.3 Acceptance of Bid (Award)

§ 5.3.1 It is the intent of the Owner to award a Contract to the lowest responsive and responsible Bidder, provided the Bid has been submitted in accordance with the requirements of the Bidding Documents. Unless otherwise prohibited by law, the Owner shall have the right to waive informalities and irregularities in a Bid received and to accept the Bid which, in the Owner's judgment, is in the Owner's best interests.

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§ 5.3.2 Unless otherwise prohibited by law, the Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in the Bidding Documents, and to determine the lowest responsive and responsible Bidder on the basis of the sum of the Base Bid and Alternates accepted.

ARTICLE 6 POST-BID INFORMATION

§ 6.1 Contractor's Qualification Statement

Bidders to whom award of a Contract is under consideration shall submit to the Architect, upon request and within the timeframe specified by the Architect, a properly executed AIA Document A305™, Contractor's Qualification Statement, unless such a Statement has been previously required and submitted for this Bid.

§ 6.2 Owner's Financial Capability

A Bidder to whom award of a Contract is under consideration may request in writing, fourteen days prior to the expiration of the time for withdrawal of Bids, that the Owner furnish to the Bidder reasonable evidence that financial arrangements have been made to fulfill the Owner's obligations under the Contract. The Owner shall then furnish such reasonable evidence to the Bidder no later than seven days prior to the expiration of the time for withdrawal of Bids. Unless such reasonable evidence is furnished within the allotted time, the Bidder will not be required to execute the Agreement between the Owner and Contractor.

§ 6.3 Submittals

§ 6.3.1 After notification of selection for the award of the Contract, the Bidder shall, as soon as practicable or as stipulated in the Bidding Documents, submit in writing to the Owner through the Architect:

.1 a designation of the Work to be performed with the Bidder's own forces;

.2 names of the principal products and systems proposed for the Work and the manufacturers and suppliers of each; and

.3 names of persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.

§ 6.3.2 The Bidder will be required to establish to the satisfaction of the Architect and Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

§ 6.3.3 Prior to the execution of the Contract, the Architect will notify the Bidder if either the Owner or Architect, after due investigation, has reasonable objection to a person or entity proposed by the Bidder. If the Owner or Architect has reasonable objection to a proposed person or entity, the Bidder may, at the Bidder's option, withdraw the Bid or submit an acceptable substitute person or entity. The Bidder may also submit any required adjustment in the Base Bid or Alternate Bid to account for the difference in cost occasioned by such substitution. The Owner may accept the adjusted bid price or disqualify the Bidder. In the event of either withdrawal or disqualification, bid security will not be forfeited.

§ 6.3.4 Persons and entities proposed by the Bidder and to whom the Owner and Architect have made no reasonable objection must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and Architect.

ARTICLE 7 PERFORMANCE BOND AND PAYMENT BOND

§ 7.1 Bond Requirements

§ 7.1.1 If stipulated in the Bidding Documents, the Bidder shall furnish bonds covering the faithful performance of the Contract and payment of all obligations arising thereunder.

§ 7.1.2 If the furnishing of such bonds is stipulated in the Bidding Documents, the cost shall be included in the Bid. If the furnishing of such bonds is required after receipt of bids and before execution of the Contract, the cost of such bonds shall be added to the Bid in determining the Contract Sum.

§ 7.1.3 The Bidder shall provide surety bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 7.1.4 Unless otherwise indicated below, the Penal Sum of the Payment and Performance Bonds shall be the amount of the Contract Sum.

(If Payment or Performance Bonds are to be in an amount other than 100% of the Contract Sum, indicate the dollar amount or percentage of the Contract Sum.)

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§ 7.2 Time of Delivery and Form of Bonds

§ 7.2.1 The Bidder shall deliver the required bonds to the Owner not later than three days following the date of execution of the Contract. If the Work is to commence sooner in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished and delivered in accordance with this Section 7.2.1.

§ 7.2.2 Unless otherwise provided, the bonds shall be written on AIA Document A312, Performance Bond and Payment Bond.

§ 7.2.3 The bonds shall be dated on or after the date of the Contract.

§ 7.2.4 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix to the bond a certified and current copy of the power of attorney.

ARTICLE 8 ENUMERATION OF THE PROPOSED CONTRACT DOCUMENTS

§ 8.1 Copies of the proposed Contract Documents have been made available to the Bidder and consist of the following documents:

.1 AIA Document A101™–2017, Standard Form of Agreement Between Owner and Contractor, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)

.2 AIA Document A101™–2017, Exhibit A, Insurance and Bonds, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)

.3 AIA Document A201™–2017, General Conditions of the Contract for Construction, unless otherwise stated below.
(Insert the complete AIA Document number, including year, and Document title.)

.4 Building Information Modeling Exhibit, if completed:

.5 Drawings

Number	**Title**	**Date**

.6 Specifications

Section	**Title**	**Date**	**Pages**

.7 Addenda:

Number	**Date**	**Pages**

.8 Other Exhibits:

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(Check all boxes that apply and include appropriate information identifying the exhibit where required.)

[ ] AIA Document E204™–2017, Sustainable Projects Exhibit, dated as indicated below:
(Insert the date of the E204-2017.)

[ ] The Sustainability Plan:

Title	Date	Pages

[ ] Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages

.9 Other documents listed below:
(List here any additional documents that are intended to form part of the Proposed Contract Documents.)

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SECTION 003100
AVAILABLE PROJECT INFORMATION

PART 1 GENERAL

1.01 EXISTING CONDITIONS

A. Certain information relating to existing surface and subsurface conditions and structures is available to bidders but will not be part of Contract Documents, as follows:

B. Geotechnical Report: Entitled PARKWAY SCHOOL DISTRICT EARLY CHILDHOOD CENTER WEST ADDITION, dated SEPTEMBER 4, 2026 is attached following this document.
   1. This report identifies properties of below grade conditions and offers recommendations for the design of foundations, prepared primarily for the use of Architect.
   2. The recommendations described shall not be construed as a requirement of this Contract, unless specifically referenced in Contract Documents.
   3. This report, by its nature, cannot reveal all conditions that exist on the site. Should subsurface conditions be found to vary substantially from this report, changes in the design and construction of foundations will be made, with resulting credits or expenditures to the Contract Sum accruing to Owner.

C. Asbestos Management Plans: Available for interiors of facilities only.
   1. Original copy is available for inspection at Owner's offices during normal business hours.
   2. Asbestos containing material location drawings excerpted from the asbestos management plans are attached following this document.
   3. All asbestos abatement required to accomplish the Work shall be performed by the Owner's asbestos abatement contractor.

D. Lead Management Plans: Available for interiors and exteriors of facilities.
   1. Original copy is available for inspection at Owner's offices during normal business hours.
   2. Lead containing material location drawings excerpted from the leadmanagement plans are attached following this document.
   3. All lead abatement required to accomplish the Work shall be performed by the Owner's lead abatement contractor.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 003100

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SCI ENGINEERING, INC.
EARTH • SCIENCE • SOLUTIONS
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

September 4, 2026

Dennis Martin
Parkway School District
363 North Woods Mill Road
Chesterfield, Missouri 63017

RE: Geotechnical Report
Parkway School District Early Childhood Center West Addition
Chesterfield, Missouri
SCI No. 2024-0556.13

Dear Dennis Martin:

At your request, SCI Engineering, Inc. (SCI) conducted a geotechnical exploration for the referenced project. Our services were provided in general accordance with our proposal, dated June 25, 2026, and authorized by you via Purchase Order #70625027-00 on July 15, 2026.

PROJECT DESCRIPTION

Improvements are planned for the existing Parkway School District Early Childhood Center – West, located at 14605 Clayton Road in Chesterfield, Missouri. The location of the site is shown on the *Vicinity and Topographic Map*, Figure 1. Based on the plans provided, the improvements include replacement of asphalt pavement to the east and south of the building and replacement of the playground surface south of the building. In addition, potential groundwater issues have been noted in areas located east and west of the building in areas that are currently green space. The existing site conditions are shown on the *Aerial Photograph*, Figure 2, and the existing building plan is shown on the *Site Plan*, Figure 3.

SUBSURFACE CONDITIONS

Six borings (B-1 through B-6) and one hand auger (HA-1) were advanced at the approximate locations shown on the *Site Plan.* The boring locations were staked in the field by SCI personnel using a handheld global positioning system. Approximate ground surface elevations at the boring locations were estimated from publicly available LiDAR data and therefore should not be used for construction. Detailed information regarding the nature and thickness of the soils and rock encountered, and the results of the field sampling and laboratory testing, are shown on the Boring Logs in Appendix A.

Surficial Material and Existing Fill

Four borings were drilled in the existing pavement areas with the pavement and crushed rock thicknesses detailed in Table 1. Additionally, 14 inches of topsoil, likely existing playground mulch, was encountered at the surface at B-2. Finally, 2 inches of topsoil was encountered at the surface at HA-1.

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Existing fill consisting of lean clay was encountered in B-3 to a depth of 3 feet, as summarized in Table 1 below. The Standard Penetration Test (SPT) N-value within the fill was 8 blows per foot (bpf), indicating that the consistency was medium stiff. The moisture content in the fill was 19 percent. Existing fill was not encountered in the remainder of the borings.

Table 1 – Pavement and Existing Fill Summary

Boring	Approximate Ground Surface Elevation (feet)*	Approximate Asphaltic Concrete Thickness (inch)	Approximate Crushed Rock Subgrade Thickness (inch)	Approximate Existing Fill Depth (feet)	Approximate Bottom of Existing Fill Elevation (feet)*
B-1	635	3	4	NE	NE
B-2	642	NE	NE	NE	NE
B-3	650	4	4	3	647
B-4	643	4	5	NE	NE
B-5	649	3	4	NE	NE
B-6	661	NE	NE	NE	NE
HA-1	630	NE	NE	NE	NE

NE = Not Encountered
*Approximate ground surface elevations interpolated from public LiDAR data and should not be used for construction.

Native Soil Profile

The native soils consisted of interbedded lean clay (CL in accordance with the Unified Soil Classification System and ASTM D 2487) and fat clay (CH), with varying amounts of sand, overlying sandy shale at depths of 5.5 to 12 feet, which extended to the depth of auger refusal on sandy shale. As exceptions, sandy shale was encountered at a depth of 1 foot at B-2; lean clay was not encountered at B-4; fat clay was not encountered at B-6; and HA-1 was terminated in the native clay at a depth of 5 feet.

SPT N-values within the native clays ranged from 4 to 12 bpf, averaging 6 bpf, indicating the consistency ranged from soft to stiff, but was generally medium stiff. Moisture contents in the clays ranged from 11 to 27 percent, with an average value of 19 percent.

Bedrock Geology

Documented geology, including the *Bedrock Geologic Map of the St. Louis Quadrangle, Missouri and Illinois* indicates that bedrock at the site consists of the Salem Formation. The Salem Formation is typically fossiliferous calcarenite (limestone) with cycles of limestone, sandstone, chert, and evaporites. The formation is typically 70 to 180 feet thick.

Auger refusal on sandy shale was encountered in all six borings at the depths summarized in Table 2 below. Shale was encountered prior to refusal at depths ranging from 1 to 12 feet. Refusal is a designation applied to any material that cannot be further penetrated by the soil auger without extraordinary effort and is indicative of a very hard or very dense material, usually boulders or bedrock. SPT N-values within the sandy shale ranged from 23 to 50 blows per 2 inches of penetration, and moisture contents in the shale ranged from 7 to 14 percent, averaging 10 percent.

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Table 2 – Shale Summary

Boring	Approximate Ground Surface Elevation (feet)*	Approximate Top of Shale Depth (feet)	Approximate Top of Shale Elevation (feet)*	Approximate Auger Refusal Depth (feet)	Approximate Auger Refusal Elevation (feet)*
B-1	635	12	623	14	621
B-2	642	1	641	7	635
B-3	650	8	642	14.5	635.5
B-4	643	5.5	637.5	14	629
B-5	649	8	641	14	635
B-6	661	12	649	24	637

*Approximate ground surface elevations interpolated from public LiDAR data and should not be used for construction.

Groundwater

Groundwater was not observed in any of the borings during drilling. However, piezometers were installed in B-1 and B-6 to the full depth of the boreholes and readings conducted 19 days after drilling indicated groundwater in B-1 and B-6 at depths of 5 and 6 feet (approximate elevations 630 and 655) respectively.

The groundwater level depends on seasonal and climatic variations and may be present at different depths in the future. In addition, without extended periods of observation, accurate groundwater level measurements may not be possible, particularly in low permeability soils.

DESIGN RECOMMENDATIONS

Groundwater Concern Areas

An SCI engineer visited the site on August 25, 2026, and observed the two areas of reported groundwater concern. The reported groundwater concern locations are shown on Figures 2 and 3.

The first area was in the vicinity of B-6, which is at a low spot within a steep slope with the tennis courts at the crest and the parking lot at the toe. This slope is reportedly often wet and soggy, even during dry periods. While no groundwater was observed in B-6 during drilling, the piezometer reading (taken 19 days after drilling) indicated groundwater at a depth of 6 feet, although no major rainfall event had occurred prior to the reading. The most recent rainfall event occurred on August 24, 2026, when 0.03 inches of rain was recorded by the St. Louis National Weather Service station.

Based on the topography of the site, this portion of the slope appears to be the drainage path for much of the greenspace, roadway, and tennis courts that lie at the crest of the slope to the south. This can lead to wet conditions due to sheet flow immediately after rainfall events, as well as elevated groundwater levels throughout the year, as groundwater flow slowly travels downhill to the north.

Due to the variability between the depth of water observed during drilling and during piezometer readings, we recommend additional piezometer readings at B-6 to further evaluate the groundwater level over time. However, regrading the slope, by filling in the low spot, would convey runoff to storm sewer outlets along the pavement to the north could improve the wet conditions after rainfall events. If future piezometer readings suggest that the groundwater level is continuously high in this area, then a French drain that discharges into a down-gradient storm sewer could be considered to provide additional drainage.

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The second area of concern is a washout area in the vicinity of HA-1. This area originates along the northern wall of the building and slopes downward to the northwest to a parking lot. The face of the slope has undergone erosion for several years, depositing sandy soils at the toe of the slope and has resulted in a void adjacent to the building foundation wall. However, no tilting, cracking, or other signs of movement were observed in the building, nor did the slope itself exhibit signs of sloughing, tension cracking, or excessive settlement. Further, washout has been noted to immediately follow rainfall events.

Based on our observations and conversations with school personnel, the erosion is most likely caused by a break in roof drain piping underneath the foundation in this area. School personnel indicated that there is a roof drain that passes underneath the foundation immediately adjacent to the washout area. While the piezometer reading at B-1 did indicate relatively shallow groundwater, it is unlikely that groundwater flow would cause significant erosion in one specific spot immediately after rainfall events. We recommend camera observation of the roof drain at this location to check its integrity and repair of the pipe if a break is observed. Coring of the floor slab inside the building above the washout, or potentially a ground penetrating radar (GPR) survey could be conducted to evaluate whether the floor slab has been undermined.

Pavements

Selection of the replacement pavement sections for the drive lane and paved playground is dependent on the design life, traffic loads, subgrade strength, drainage characteristics, and the desired level of maintenance. We have assumed that routine traffic for the drive lane will consist of automobiles, light trucks, and deliveries via panel trucks.

Neither California Bearing Ratio testing nor formal pavement design was part of our scope for this project. However, for planning purposes, the following recommendations typically result in pavements that perform satisfactorily on similar subgrades under automobile and truck loads. They are intended to roughly provide a pavement requiring routine maintenance for a 5-year period, minor repair and maintenance during the 5- to 20-year life of the pavement, and possibly major repairs and restoration after a 20-year service life.

The recommended minimum pavement sections are listed in Table 3 with material references to Missouri Department of Transportation (MoDOT) standards. Care should be taken to provide drains or drainable transition at locations where pavement sections of varying thickness abut, so as not to trap water within the crushed stone base, which could saturate and soften the subgrade.

Table 3 – Flexible Pavement Sections

Pavement Section	Parking Stalls for Autos and Light Trucks (inches)	Drive Lanes for Autos and Light Trucks (inches)
Asphaltic Concrete (BP-1)	3	3
Aggregate Base (Type 5)	6	8

Alternately, a rigid concrete pavement section may be used with less anticipated long-term maintenance. The recommended minimum rigid pavement sections are listed in Table 4.

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Table 4 – Rigid Pavement Sections

Pavement Section	Parking Stalls for Autos and Light Trucks (inches)*	Drive Lanes for Autos and Light Trucks (inches)
Portland Cement Concrete	6	6
Aggregate Base (Type 5)	0	4

*Alternately, a 5-inch concrete section may be used with 4 inches of Type 5 crushed rock.

To provide resistance against salt and freeze-thaw cycles, we recommend the concrete have a minimum 28-day compressive strength of 4,000 pounds per square inch and air entrainment of 5 to 7 percent by volume. We also recommend that the maximum joint spacing be approximately 15 feet.

The existing fill encountered in B-3, as well as the shallow expansive clay encountered in B-4, could cause some distress in the pavement; however, the risk associated with the fill is judged to be low and the school district may find that benefits of remediating the expansive clay may not offset the costs. To reduce long-term maintenance, consideration could be given to remediating the upper 12 inches of subgrade. Alternatives include removal and replacement with crushed stone or low plastic soil, or geogrid reinforcement. At a minimum, the pavement subgrade should be proofrolled and any soft areas repaired prior to the placement of the aggregate base. Any soft areas identified during the proofroll should be removed to firmer soils and backfilled with engineered fill in accordance with the recommendations below.

SITE DEVELOPMENT AND CONSTRUCTION CONSIDERATIONS

Site Preparation

After stripping, the pavement areas should be proofrolled by systematically passing over the subgrade to achieve complete coverage with proper compaction or loaded construction equipment, and observing the subgrade for pockets of excessively soft, wet, or disturbed soil, or otherwise unacceptable materials.

Soft areas or otherwise unacceptable materials, if encountered, should be removed and replaced with structural fill or stabilized prior to placing additional fill. If removal of soft soils is impractical due to their excessive depth, they should be stabilized in a manner approved by SCI. Stabilization of the soft soils can often be accomplished by placing a geofabric or geogrid supplied by Mirafi or Tensar, respectively, topped with minus crushed limestone. The appropriate geofabric or grid as well as the thickness and gradation of the crushed rock should be determined by SCI personnel on a case-specific basis depending on the allowable rut depth, the measured subgrade strength, and material availability; however, sections thicknesses of 1 to 2 feet are common.

Slopes to receive fill, which are steeper than 5 horizontal to 1 vertical (5H:1V), should be benched prior to the placement of fill. Benching will provide level surfaces for compaction and reduce the potential for development of inclined planes of weakness between the natural soil and compacted fill. The benches should be spaced such that the height of the cut at the up-slope end of the bench is less than 5 feet.

Fill Materials and Compaction

Prior to fill placement and compaction, the upper 8 inches of the exposed subgrade should be scarified, moisture conditioned and recompacted. Structural fill should be placed in maximum 8-inch-thick loose lifts and mechanically compacted in accordance with Table 5. Acceptable non-organic fill soils include materials designated CL, ML, CL-ML, GP, and GW by ASTM D 2487-11.

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Table 5 – Typical Compaction Requirements for Fill

Material Tested	Proctor Type	Minimum Percentage Dry Density
Structural Fill (Cohesive)	Modified (ASTM D 1557)	90
	Standard (ASTM D 698)	95
Structural Fill (Granular)	Modified	95
	Standard	98
Landscaped Areas (Non-load Bearing)	Modified	88
	Standard	92
Utility Trench Backfill	Modified	90
	Standard	95

Prior to compaction, the soil may require moisture adjustment. During warm weather, moisture reduction can generally be accomplished by disking or otherwise aerating the soil. When air drying is not feasible, a moisture reducing chemical additive, such as hydrated lime, could be incorporated into the soil. During dry weather, some addition of moisture may be required to facilitate compaction. This should also be done in a controlled manner using a tank truck with a spray bar. The moistened soil should be thoroughly blended with a disk or pulverizer to produce a uniform moisture content. If construction is performed during the winter season, fill materials should be carefully observed to see that no frozen soil is placed as fill or remains in the base materials upon which fill is placed.

In addition to the minimum density requirements listed above, the soil must be stable, i.e., not “pumping” or rutting excessively under construction traffic, prior to placing additional fill or constructing foundations, floor slabs or pavements. Field density tests should be performed on each lift of fill to document that proper compaction is achieved.

Underground Utilities

Groundwater is not anticipated to significantly influence utility installations. In most situations, small amounts of groundwater seepage into the excavations can be handled by means of gravity ditching and a sump pump. If greater flows are experienced, SCI should be retained to review our recommendations and provide additional recommendations regarding dewatering.

Excavation Bracing Requirements

In the *Federal Register*, Volume 54, No. 209 (October 1989), the United States Department of Labor, Occupational Safety and Health Administration (OSHA) amended its "Construction Standards for Excavations, 29 CFR, Part 1926, Subpart P." This document was issued to provide for the safety of workers entering excavations, including utility trenches, basements, footings, and others. All operations should be performed under the supervision of qualified site personnel in accordance with OSHA regulations.

CONSTRUCTION MONITORING PROGRAM

The following list summarizes SCI’s recommendations for a construction monitoring program. These services are recommended to provide quality assurance in assessing design assumptions and to document earth-related construction procedures for compliance with plans, specifications, and good engineering practice. SCI should be retained to:

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- Take additional piezometer readings to monitor groundwater levels.
- Participate in a formal preconstruction meeting with the Owner's Representative, Civil Engineer, and Contractor, prior to construction at the site.
- Observe site preparation activities prior to construction, including proofrolling.
- Assess the suitability of potential fill materials, including both on-site and off-site sources.
- Monitor the placement and compaction of fill material.
- Observe pavement subgrade preparation and provide observation and testing services for the base course and pavement section.
- Check the thickness of pavement sections and, for asphaltic concrete, its density.
- Observe backfilling of below-grade utility excavations.
- Provide quality assurance testing of pavement materials and structural concrete.

LIMITATIONS

The recommendations provided herein are for the exclusive use of the Parkway School District. It is imperative that SCI be contacted by any third-party interests to evaluate the applicability of this report relative to use by anyone other than the Parkway School District. Our recommendations are specific only to the project described and are not meant to supersede more stringent requirements of local ordinances. They are based on subsurface information obtained at six boring locations within the project area; our understanding of the project as presented above; and geotechnical engineering practice consistent with the standard of care. No other warranty is expressed or implied. SCI should be contacted if conditions encountered are not consistent with those described.

The final part of our geotechnical service should consist of direct observation during construction, to observe that conditions actually encountered are consistent with those described in this report, and to assess the appropriateness of the analyses and recommendations contained herein. SCI cannot assume responsibility or liability for the adequacy of its recommendations without being retained to observe construction.

We appreciate the opportunity to be of service and look forward to working with you during the construction phase of the project. If you have any questions or comments, please do not hesitate to contact me.

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I can be reached at (636) 949-8200 or mmartin@sciengineering.com.

Respectfully,

SCI ENGINEERING, INC.

Matthew G. Martin, P.E., MSCE
Project Engineer

STATE OF MISSOURI
TIMOTHY J. BARRETT
9/4/2026
NUMBER PE-2011015698
PROFESSIONAL ENGINEER

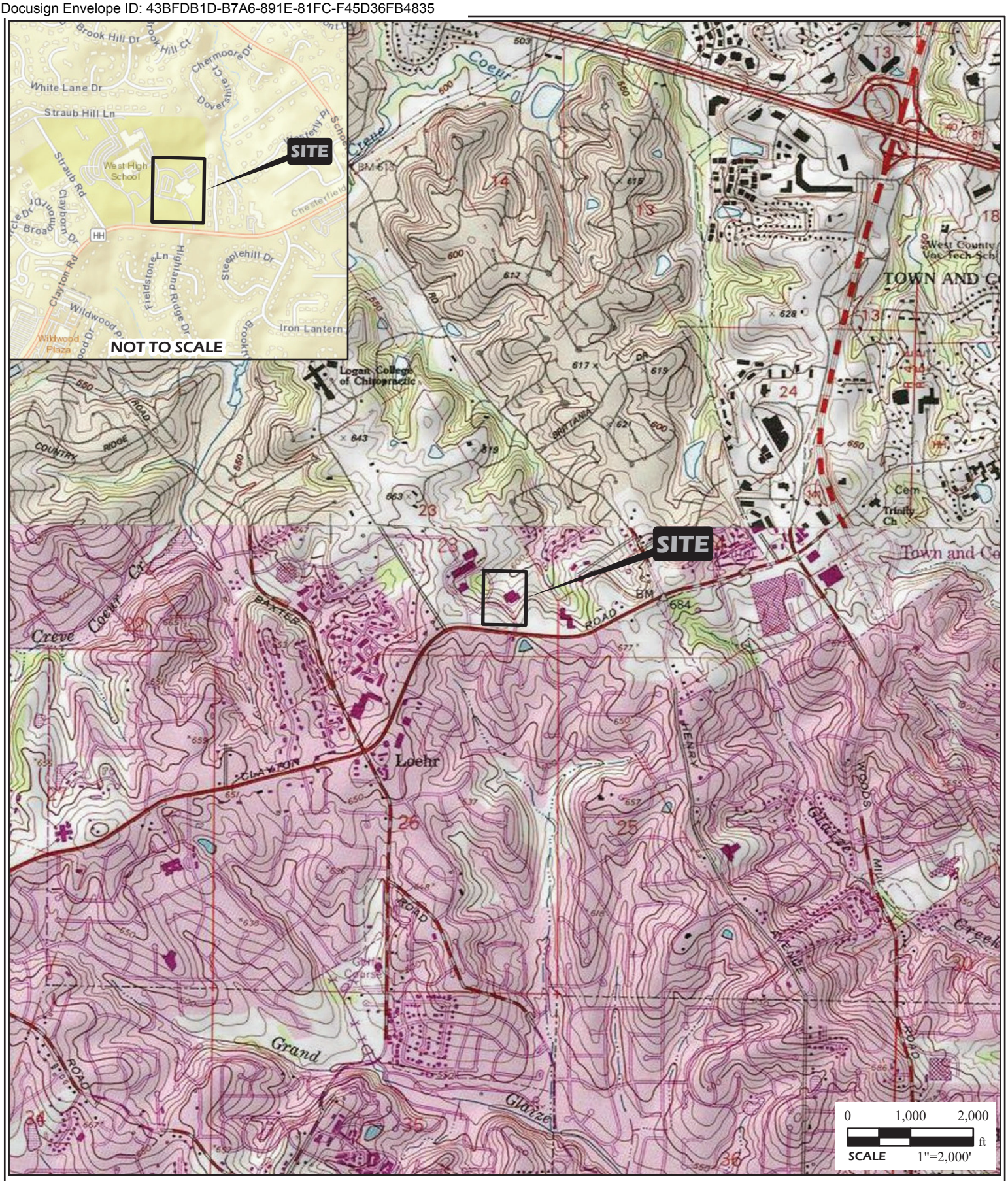
Timothy J. Barrett, P.E., CFM
Geotechnical Services Manager

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MGM/TJB/snp/tkh

Enclosures
- Figure 1 – Vicinity and Topographic Map
- Figure 2 – Aerial Photograph
- Figure 3 – Site Plan
- Appendix A – Boring Log Legend and Nomenclature Sheet, Boring Logs

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SCI	**PROJECT NAME** PARKWAY SCHOOL DISTRICT EARLY CHILDHOOD CENTER WEST ADDITION CHESTERFIELD, MISSOURI			**GENERAL NOTES/LEGEND** USGS TOPOGRAPHIC MAP CHESTERFIELD, MISSOURI QUADRANGLE DATED 1994 10' CONTOURS MANCHESTER MISSOURI QUADRANGLE DATED 1954, REVISED 1993 10' CONTOURS STREET MAP HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_STREET_MAP	N W E S
	VICINITY AND TOPOGRAPHIC MAP				
	DRAWN BY EML	**FIGURE DATE**	**JOB NUMBER**		**FIGURE**
	CHECKED BY MGM	09/04/2026	2024-0556.13		1

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PROJECT NAME
PARKWAY SCHOOL DISTRICT
EARLY CHILDHOOD CENTER WEST ADDITION
CHESTERFIELD, MISSOURI

AERIAL PHOTOGRAPH

DRAWN BY	EML	FIGURE DATE	JOB NUMBER
CHECKED BY	MGM	09/04/2026	2024-0556.13

GENERAL NOTES/LEGEND

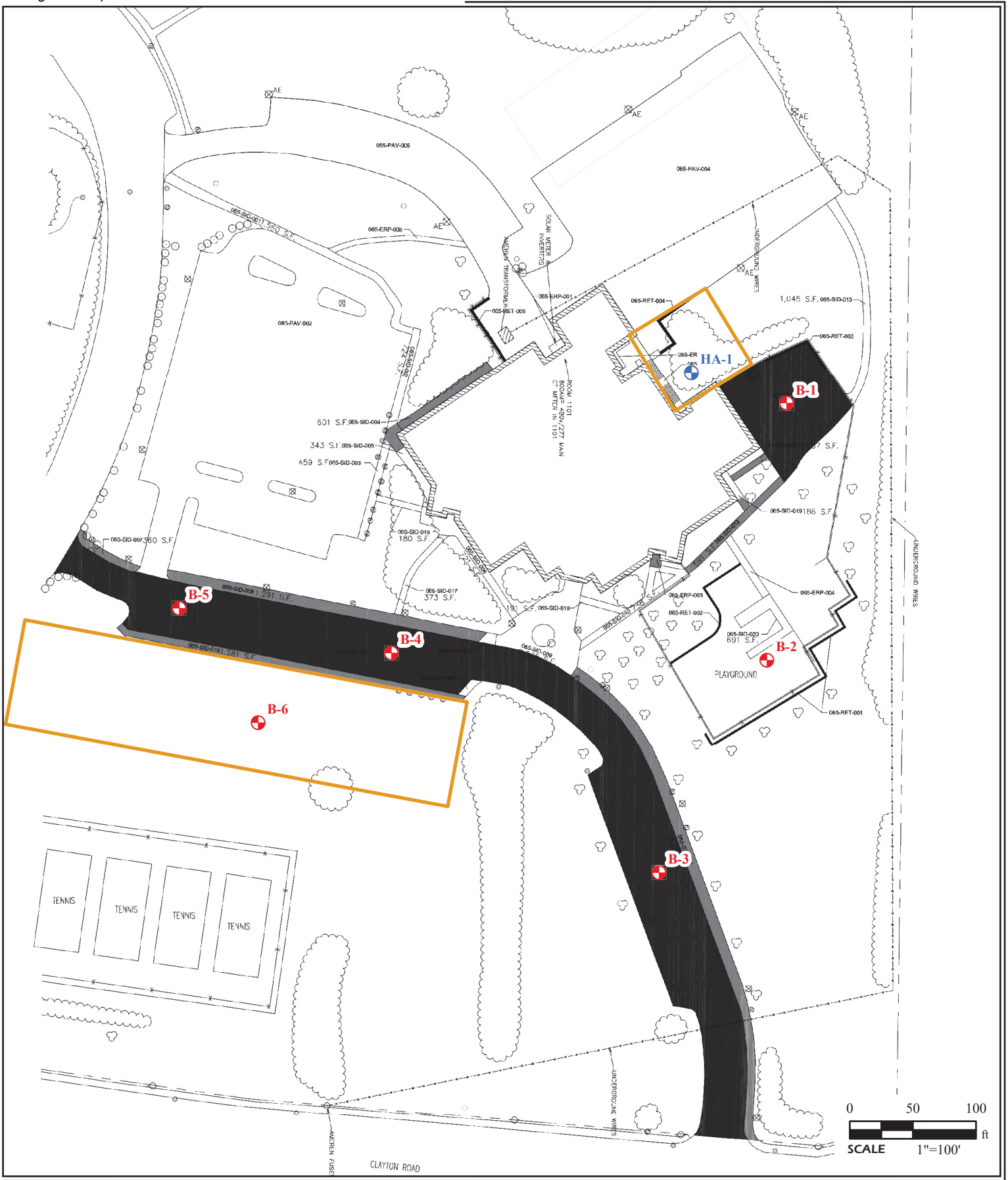
- APPROXIMATE HAND AUGER LOCATIONS
- APPROXIMATE SOIL BORING LOCATIONS
- GROUNDWATER CONCERN AREAS

AERIAL PHOTOGRAPH OBTAINED FROM ARCGIS ONLINE, WORLD IMAGERY.
DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY.
DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED.

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FIGURE
2

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PROJECT NAME

PARKWAY SCHOOL DISTRICT
EARLY CHILDHOOD CENTER WEST ADDITION
CHESTERFIELD, MISSOURI

SITE PLAN

DRAWN BY	EML	FIGURE DATE	JOB NUMBER
CHECKED BY	MGM	09/04/2026	2024-0556.13

GENERAL NOTES/LEGEND

- APPROXIMATE HAND AUGER LOCATIONS
- APPROXIMATE SOIL BORING LOCATIONS
- GROUNDWATER CONCERN AREAS

PLAN DATED 07/07/2022 BY PARKWAY SCHOOLS
DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY.
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FIGURE
3

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Appendix A

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SCI ENGINEERING, INC.
130 Point West Boulevard
St. Charles, Missouri 63301
636-949-8200
www.sciengineering.com

BORING LOG LEGEND AND NOMENCLATURE

Depth is in feet below ground surface. **Elevation** is in feet in reference to sea level, site datum, or as otherwise noted.

Sample Type

- **SS** Split-spoon sample, disturbed, obtained by driving a 2-inch-O.D. split-spoon sampler (ASTM D1586).
- **NX** Diamond core bit, nominal 2-inch-diameter rock sample (ASTM D2113).
- **NQ** Diamond core bit, nominal 1 7/8-inch diameter rock sample
- **ST** Thin-walled (Shelby) tube sample, relatively undisturbed, obtained by pushing a 3-inch-diameter, tube (ASTM D1587).
- **CS** Continuous sample tube system, relatively undisturbed, obtained by split-barrel sampler in conjunction with auger advancement.
- **SV** Shear vane, field test to determine strength of cohesive soil by pushing or driving a 2-inch-diameter vane, and then shearing by torquing soil in existing and remolded states (ASTM D2573).
- **BS** Bag sample, disturbed, obtained from cuttings.
- **MC** Modified California Sampler, disturbed, obtained by driving a 2.5-inch O.D. ring-lined split-barrel sampler (ASTM D3550).

Recovery is expressed as the sample length recovered / the total length pushed, driven, or cored.

Blows Numbers indicate blows per 6 inches of split-spoon sampler penetration when driven with a 140-pound hammer falling freely 30 inches. The number of total blows obtained for the second and third 6-inch increments is the N value (Standard Penetration Test or SPT) in blows per foot (ASTM D1586). Practical refusal is considered to be 50 or more blows without achieving 6 inches of penetration and is expressed as a ratio of 50 to actual penetration, e.g., 50/2 (50 blows for 2 inches).

For analysis, the N value is used when obtained by a cathead and rope system. When obtained by an automatic hammer, the N value may be increased by a factor of 1.3.

Vane Shear Strength is expressed as the peak strength (existing state) / the residual strength (remolded state).

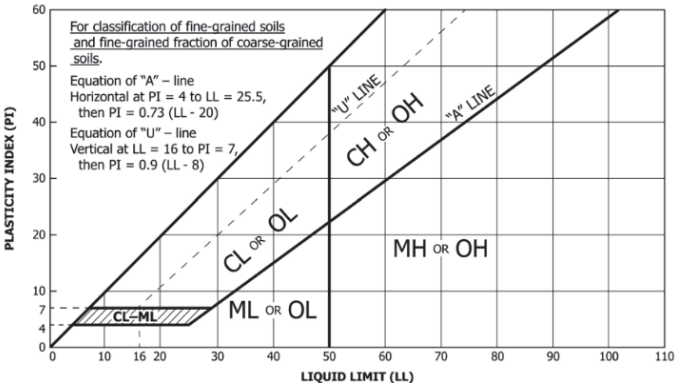
Description indicates soil constituents and other classification characteristics (ASTM D2488) and the Unified Soil Classification (ASTM D2487).

SOIL GRAIN SIZE

Soil Component	Particle Size Range
Boulders	> 12 in.
Cobbles	12 in. -3 in.
Gravel	3 in. - #4 sieve (4.75 mm)
Coarse Gravel	3 in. - ¾ in.
Fine Gravel	¾ in. - #4 sieve (4.75 mm)
Sand	#4 sieve (4.75 mm) - #200 sieve (0.075 mm)
Coarse Sand	#4 sieve (4.75 mm) - #10 sieve (2 mm)
Medium Sand	#10 sieve (2 mm) - #40 sieve (0.425 mm)
Fine Sand	#40 sieve (0.425 mm) - #200 sieve (0.075 mm)
Fines (Silt & Clay)	< #200 sieve (0.075 mm)

in – inches
mm – millimeters

PLASTICITY CHART



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BORING LOG LEGEND AND NOMENCLATURE

Strength of Cohesive Soils		
Consistency	*N-Value*	*Unconfined Comp. Strength (ksf)*
Very Soft	0 – 2	< 0.50
Soft	3 – 4	0.50 – 1.00
Medium Stiff	5 – 8	1.0 – 2.0
Stiff	9 – 15	2.0 – 4.0
Very Stiff	16 – 30	4.0 – 6.0
Hard	Over 30	> 8.0

Density of Granular Soils	
Descriptive Term	*N-Value*
Very Loose	0 – 4
Loose	5 – 10
Medium Dense	11 – 29
Dense	30 – 49
Very Dense	Over 50

ksf – kips per square foot

USCS SOIL CLASSIFICATION

		Major Divisions		Group Symbol	Typical Names
Coarse-Grained Soils (Less than 50% Passing the #200 Sieve)	Gravels	Clean Gravels		GW	Well graded gavels, gravel-sand mixture
				GP	Poorly graded gravels, gravel-sand mixture
		Gravels with fines	Limits plot below "A" line on plasticity chart	GM	Silty gravels, gravel-sand-silt mixture
			Limits plot above "A" line on plasticity chart	GC	Clayey gravels, gravel-sand-clay mixture
	Sands	Clean Sands		SW	Well graded sands, gravelly sands
				SP	Poorly graded sands, gravelly sands
		Sands with fines	Limits plot below "A" line on plasticity chart	SM	Silty sands, sand-silt mixture
			Limits plot above "A" line on plasticity chart	SC	Clayey sands, sand-clay mixture
Fine-Grained Soils (50% or More Passing #200 Sieve)	Silts	Silts of low plasticity (LL<50)		ML	Inorganic silts, clayey silts
		Silts of high plasticity (LL≥50)		MH	Inorganic silts, elastic silts
	Clays	Clays of low plasticity (LL<50)		CL	Inorganic lean clays, sandy and silty clays
		Clays of high plasticity (LL≥50)		CH	Inorganic fat clays, sandy clays
	Organic Silts and Clays	Organic silts and clays of low plasticity (LL<50)		OL	Organic silts and lean clays
		Organic silts and clays of high plasticity (LL≥50)		OH	Organic silts and fat clays
Organic Soils		Primarily organic matter		PT	Peat

*Table per Unified Soil Classification System (USCS)

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BORING LOG LEGEND AND NOMENCLATURE

SECONDARY SOIL CONSTITUENT RELATIVE COMPOSITION

If Primary Soil Constituent is	Clay or Silt		Sand or Gravel	
	Trace	0-5%	Trace	0-5%
	Few	6-15%	With	6-12%
	With	>15%	Silty/Clayey/Gravelly/Sandy	>12%
	Sandy/Gravelly	>30%		

Stratigraphic Breaks may be observed or interpreted and are indicated by a dashed line (inferred) or solid line (observed). Transition between described materials may be gradual.

Laboratory Test Results

- Natural moisture content (ASTM D2216) in percent.
- Dry density in pounds per cubic foot (pcf).
- Hand penetrometer value of apparently intact cohesive sample in kips per square foot (ksf).
- Unconfined compressive strength (ASTM D2166) in ksf.
- Liquid and Plastic Limits (ASTM D4318) in percent.

Rock Quality Designation (RQD) is the ratio between the total length of core segments 4 inches or more and the total length of core drilled. RQD indicates in-situ rock quality as follows:

Excellent	90 - 100%
Good	75 – 90%
Fair	50 – 75%
Poor	25 – 50%
Very Poor	0 – 25%

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BORING LOG

PROJECT Parkway School District Early Childhood Center West Addition **BORING NUMBER** B-1
LOCATION Chesterfield, Missouri **SHEET** 1 **of** 1
DRILLER Geo Drill **HAMMER** Automatic **PROJECT NO.** 2024-0556.13
EQUIPMENT Geoprobe 7822DT w/HSA **ELEVATION** 635± **DATE DRILLED** 08/06/2026

DEPTH (ft)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE RECOVERY (in/in)	SAMPLE BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LAB: MOISTURE CONTENT (%)	LAB: DRY DENSITY (pcf)	LAB: HAND PENETROMETER (ksf)	LAB: UNCONFINED COMPRESSIVE STRENGTH (ksf)	LAB: LIQUID LIMIT	LAB: PLASTICITY INDEX	ELEVATION (ft)
					3" ASPHALTIC CONCRETE		1							
					4" CRUSHED ROCK									
					LEAN CLAY (CL): Brown									
	1	SS	17/18	2 3 3				23						633
3														
	2	SS	16/18	1 2 2				22				32	13	630
6														
	3	SS	16/18	1 2 3				22						
					FAT CLAY (CH): Brown									627
9	4	SS	12/18	1 3 5				21						
														624
12					SANDY SHALE: Brown, sand is fine-grained									
	5	SS	9/9	33 50/3"				9						
					Auger refusal on shale at 14 feet.									621
15														
														618
18														

WATER LEVEL:

X		NONE OBSERVED WHILE DRILLING
	ft	WHILE DRILLING
	ft	___ HRS AFTER DRILLING
5.0	ft	19 DAYS AFTER DRILLING

REMARKS:

1) Piezometer installed to full depth

Docusign Envelope ID: 43BFDB1D-B7A6-891E-81FC-F45D36FB4835

BORING LOG

PROJECT Parkway School District Early Childhood Center West Addition **BORING NUMBER** B-2
LOCATION Chesterfield, Missouri **SHEET** 1 **of** 1
DRILLER Geo Drill **HAMMER** Automatic **PROJECT NO.** 2024-0556.13
EQUIPMENT Geoprobe 7822DT w/HSA **ELEVATION** 642± **DATE DRILLED** 08/10/2026

DEPTH (ft)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE RECOVERY (in/in)	SAMPLE BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS: MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	ELEVATION (ft)
					14" TOPSOIL									
	1	SS	16/17	4 37 50/5"	SANDY SHALE: Brown, sand is fine-grained			11						
3														639
	2	SS	10/11	8 50/5"				9						
6														636
	3	SS	9/9	46 50/3"				7						
					Auger refusal on shale at 7 feet.									
9														633
12														630
15														627
18														624

WATER LEVEL:

X	NONE OBSERVED WHILE DRILLING
	ft WHILE DRILLING
	ft ___ HRS AFTER DRILLING
	ft ___ DAYS AFTER DRILLING

REMARKS:

Docusign Envelope ID: 43BFDB1D-B7A6-891E-81FC-F45D36FB4835

BORING LOG

PROJECT Parkway School District Early Childhood Center West Addition **BORING NUMBER** B-3
LOCATION Chesterfield, Missouri **SHEET** 1 **of** 1
DRILLER Geo Drill **HAMMER** Automatic **PROJECT NO.** 2024-0556.13
EQUIPMENT Geoprobe 7822DT w/HSA **ELEVATION** 650± **DATE DRILLED** 08/06/2026

DEPTH (ft)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE RECOVERY (in/in)	SAMPLE BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS: MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	ELEVATION (ft)
					4" ASPHALTIC CONCRETE									
					4" CRUSHED ROCK									
					FILL: Gray, lean clay									
	1	SS	12/18	2 4 4				19						648
3					LEAN CLAY (CL): Gray									
	2	ST	19/24					24	100		3.1	45	25	645
					FAT CLAY (CH): Brown, few sand									
6	3	SS	12/18	1 2 3			1	26						
					SANDY SHALE: Brown, sand is fine-grained									642
9	4	SS	11/12	8 50/5.5"				12						
12														639
	5	SS	5/6	50/5.5"				11						636
15					Auger refusal on shale at 14.5 feet.									
														633
18														

WATER LEVEL:

X	NONE OBSERVED WHILE DRILLING
	ft WHILE DRILLING
	ft ___ HRS AFTER DRILLING
	ft ___ DAYS AFTER DRILLING

REMARKS:

1) Percent passing the number 200 sieve: 90.0%

Docusign Envelope ID: 43BFDB1D-B7A6-891E-81FC-F45D36FB4835

BORING LOG

PROJECT Parkway School District Early Childhood Center West Addition **BORING NUMBER** B-4
LOCATION Chesterfield, Missouri **SHEET** 1 **of** 1
DRILLER Geo Drill **HAMMER** Automatic **PROJECT NO.** 2024-0556.13
EQUIPMENT Geoprobe 7822DT w/HSA **ELEVATION** 643± **DATE DRILLED** 08/06/2026

DEPTH (ft)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE RECOVERY (in/in)	SAMPLE BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LAB: MOISTURE CONTENT (%)	LAB: DRY DENSITY (pcf)	LAB: HAND PENETROMETER (ksf)	LAB: UNCONFINED COMPRESSIVE STRENGTH (ksf)	LAB: LIQUID LIMIT	LAB: PLASTICITY INDEX	ELEVATION (ft)
					4" ASPHALTIC CONCRETE									
					5" CRUSHED ROCK									
					FAT CLAY (CH): Brown									642
	1	SS	14/18	3 3 4				20						
3														
	2	SS	0/18	2 3 5										639
					SANDY SHALE: Brown, sand is fine-grained									
6														
	3	ST	8/24				1	14	109.6			28	9	636
9	4	SS	9/9	14 50/3"				8						
														633
12														
	5	SS	9/9	33 50/3"				8						630
					Auger refusal on shale at 14 feet.									
15														
														627
18														
														624

WATER LEVEL:

X	NONE OBSERVED WHILE DRILLING
	ft WHILE DRILLING
	ft ___ HRS AFTER DRILLING
	ft ___ DAYS AFTER DRILLING

REMARKS:

1) Insufficient cohesive sample for meaningful strength testing.

Docusign Envelope ID: 43BFDB1D-B7A6-891E-81FC-F45D36FB4835

BORING LOG

PROJECT Parkway School District Early Childhood Center West Addition **BORING NUMBER** B-5
LOCATION Chesterfield, Missouri **SHEET** 1 **of** 1
DRILLER Geo Drill **HAMMER** Automatic **PROJECT NO.** 2024-0556.13
EQUIPMENT Geoprobe 7822DT w/HSA **ELEVATION** 649± **DATE DRILLED** 08/06/2026

DEPTH (ft)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE RECOVERY (in/in)	SAMPLE BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LAB: MOISTURE CONTENT (%)	LAB: DRY DENSITY (pcf)	LAB: HAND PENETROMETER (ksf)	LAB: UNCONFINED COMPRESSIVE STRENGTH (ksf)	LAB: LIQUID LIMIT	LAB: PLASTICITY INDEX	ELEVATION (ft)
					3" ASPHALTIC CONCRETE									
					4" CRUSHED ROCK									
					LEAN CLAY (CL): Brown									648
	1	SS	12/18	2 2 2				23						
3														
	2	ST	18/24					23	101.4		1.7	46	29	645
					FAT CLAY (CH): Brown									
6														
	3	SS	13/18	2 4 8				21						642
					SANDY SHALE: Brown, sand is fine-grained									
9	4	SS	9/12	9 50/5.5"				12						
														639
12														
	5	SS	8/8	32 50/2"				8						636
					Auger refusal on shale at 14 feet.									
15														633
18														630

WATER LEVEL:

X NONE OBSERVED WHILE DRILLING
____ ft WHILE DRILLING
____ ft ____ HRS AFTER DRILLING
____ ft ____ DAYS AFTER DRILLING

REMARKS:

Docusign Envelope ID: 43BFDB1D-B7A6-891E-81FC-F45D36FB4835

BORING LOG

PROJECT Parkway School District Early Childhood Center West Addition **BORING NUMBER** B-6
LOCATION Chesterfield, Missouri **SHEET** 1 **of** 2
DRILLER Geo Drill **HAMMER** Automatic **PROJECT NO.** 2024-0556.13
EQUIPMENT Geoprobe 7822DT w/HSA **ELEVATION** 661± **DATE DRILLED** 08/06/2026

DEPTH (ft)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE RECOVERY (in/in)	SAMPLE BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS: MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	ELEVATION (ft)
					LEAN CLAY (CL): Brown		1							661
	1	SS	13/18	1 2 3				24						660
3														
	2	SS	17/18	1 2 3				27						657
6														
	3	SS	18/18	1 3 4				22						654
9														
	4	SS	17/18	1 2 3				22				41	24	651
12					SANDY SHALE: Brown, sand is fine-grained									648
	5	SS	15/18	5 10 13			2	13						645
15														
18														
	6	SS	9/9	28 50/3"				8						642

WATER LEVEL:

X	NONE OBSERVED WHILE DRILLING
	ft WHILE DRILLING
	ft ___ HRS AFTER DRILLING
6.0	ft 19 DAYS AFTER DRILLING

REMARKS:

1) Piezometer installed to full depth
2) Percent passing the number 200 sieve: 67.3%

Docusign Envelope ID: 43BFDB1D-B7A6-891E-81FC-F45D36FB4835

BORING LOG

PROJECT Parkway School District Early Childhood Center West Addition **BORING NUMBER** B-6
LOCATION Chesterfield, Missouri **SHEET** 2 **of** 2
DRILLER Geo Drill **HAMMER** Automatic **PROJECT NO.** 2024-0556.13
EQUIPMENT Geoprobe 7822DT w/HSA **ELEVATION** 661± **DATE DRILLED** 08/06/2026

DEPTH (ft)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE RECOVERY (in/in)	SAMPLE BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS: MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	ELEVATION (ft)
21					SANDY SHALE: Brown, sand is fine-grained *(Continued)*									639
24	7	SS	6/6	50/5.5"				11						
					Auger refusal on shale at 24 feet.									636
27														633
30														630
33														627
36														624
39														

WATER LEVEL:

X	NONE OBSERVED WHILE DRILLING
	ft WHILE DRILLING
	ft ___ HRS AFTER DRILLING
6.0	ft 19 DAYS AFTER DRILLING

REMARKS:

Docusign Envelope ID: 43BFDB1D-B7A6-891E-81FC-F45D36FB4835

BORING LOG

PROJECT Parkway School District Early Childhood Center West Addition **BORING NUMBER** HA-1
LOCATION Chesterfield, Missouri **SHEET** 1 **of** 1
DRILLER SCI Engineering, Inc. **HAMMER** N/A **PROJECT NO.** 2024-0556.13
EQUIPMENT Geoprobe 7822DT w/HSA **ELEVATION** 630± **DATE DRILLED** 08/05/2026

DEPTH (ft)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE RECOVERY (in/in)	SAMPLE BLOWS (per 6 in)	DESCRIPTION (UNIFIED SOIL CLASSIFICATION)	GRAPHIC	SEE REMARK NO.	LABORATORY TEST RESULTS: MOISTURE CONTENT (%)	DRY DENSITY (pcf)	HAND PENETROMETER (ksf)	UNCONFINED COMPRESSIVE STRENGTH (ksf)	LIQUID LIMIT	PLASTICITY INDEX	ELEVATION (ft)
	1	BS			2" TOPSOIL			13						
	2	BS			LEAN CLAY (CL): Brown, trace sand		1	12						
	3	BS			Few gravel			15						
	4	BS			No gravel, trace sand			19						
	5	BS						13						
3	6	BS						11				34	12	627
	7	BS						14						
	8	BS						17						
	9	BS						15						
	10	BS						15						
					Boring terminated at 5 feet.									
6														624
9														621
12														618
15														615
18														612

WATER LEVEL:

X	NONE OBSERVED WHILE DRILLING
	ft WHILE DRILLING
	ft ___ HRS AFTER DRILLING
	ft ___ DAYS AFTER DRILLING

REMARKS:

1) Percent passing the number 200 sieve: 94.6%

Certificate Of Completion

Envelope Id: 43BFDB1D-B7A6-891E-81FC-F45D36FB4835
Status: Completed
Subject: Complete with Docusign: 2024-0556.13 PSD ECC West - GS Letter.pdf
Source Envelope:
Document Pages: 23
Signatures: 1
Envelope Originator:
Certificate Pages: 1
Initials: 0
Tim Barrett
AutoNav: Enabled
aa
EnvelopeId Stamping: Enabled
aa, AL 00000
Time Zone: (UTC-08:00) Pacific Time (US & Canada)
tbarrett@sciengineering.com
IP Address: 151.186.191.84

Record Tracking

Status: Original
9/4/2026 11:54:45 AM
Holder: Tim Barrett
tbarrett@sciengineering.com
Location: DocuSign

Signer Events	Signature	Timestamp
Tim Barrett tbarrett@sciengineering.com SCI Engineering, Inc. Security Level: Email, Account Authentication (None)	DocuSigned by:  7C4EB73EF381454... Signature Adoption: Uploaded Signature Image Using IP Address: 151.186.191.84	Sent: 9/4/2026 11:55:17 AM Viewed: 9/4/2026 11:55:22 AM Signed: 9/4/2026 11:56:15 AM Freeform Signing

Electronic Record and Signature Disclosure:
Not Offered via Docusign

In Person Signer Events	Signature	Timestamp

Editor Delivery Events	Status	Timestamp

Agent Delivery Events	Status	Timestamp

Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp

Carbon Copy Events	Status	Timestamp

Witness Events	Signature	Timestamp

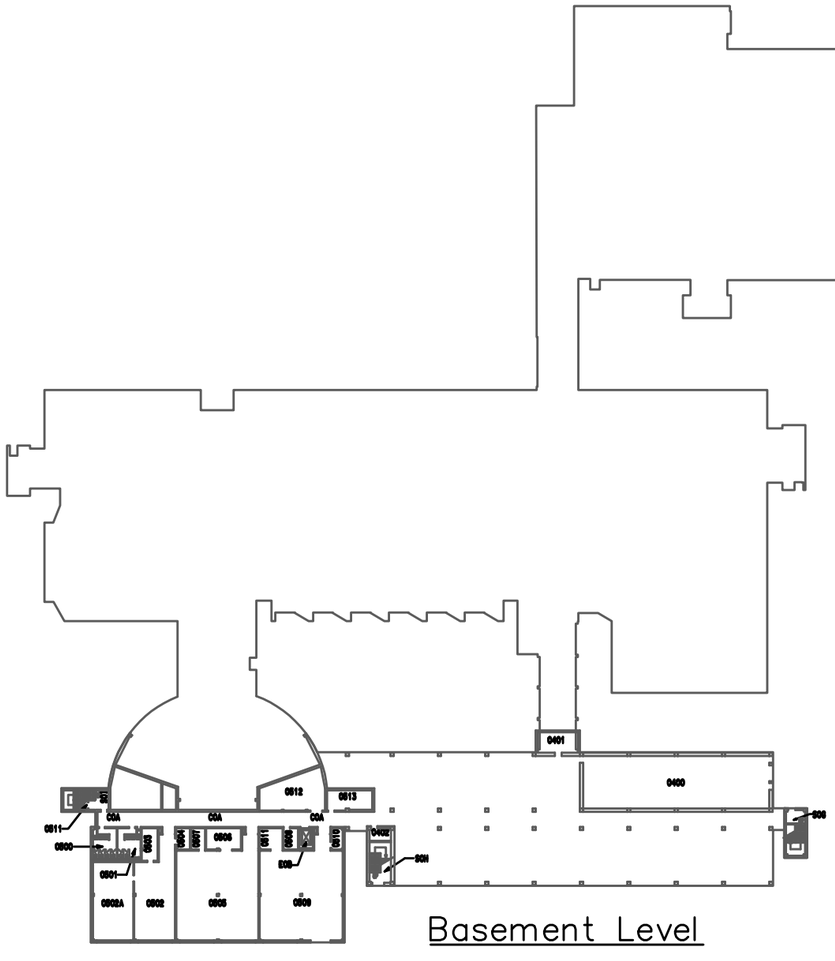
Notary Events	Signature	Timestamp

Envelope Summary Events	Status	Timestamps
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Certified Delivered	Security Checked	9/4/2026 11:55:22 AM
Signing Complete	Security Checked	9/4/2026 11:56:15 AM
Completed	Security Checked	9/4/2026 11:56:15 AM

Payment Events	Status	Timestamps

DRAWING INDEX BASEMENT LEVEL

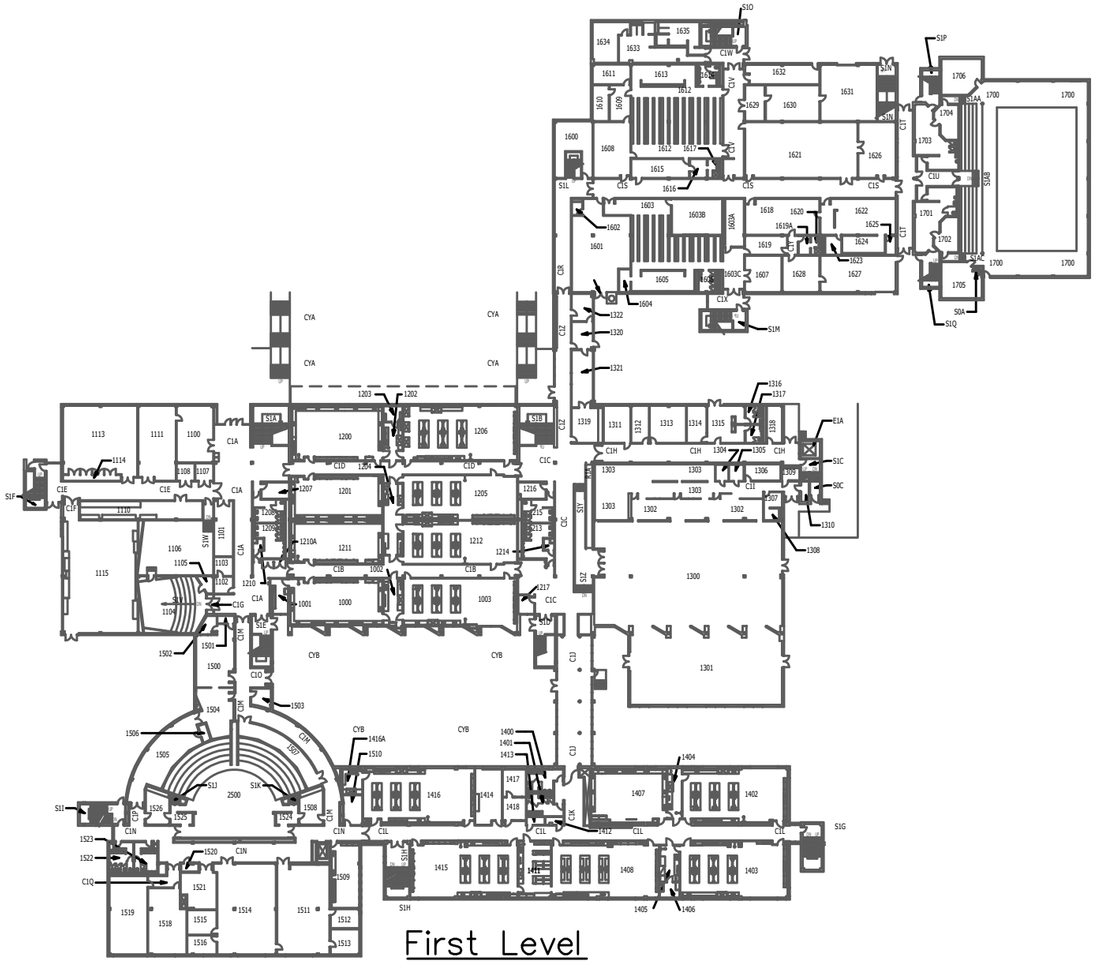
A4-00 = ASBESTOS - MISC. MATERIAL - OTHER
A6-00 = ASBESTOS - MISC. MATERIAL - VERMICULITE
B1-00 = ASBESTOS - BULK SAMPLE LOCATIONS
F1-00 = ASBESTOS - FUNCTIONAL SPACES
L1-00 = LEAD BASED PAINT



Basement Level

DRAWING INDEX FIRST LEVEL

A1-01 = ASBESTOS - SURFACING MATERIAL
A2-01 = ASBESTOS - THERMAL SYSTEMS INSULATION
A3-01 = ASBESTOS - MISC. MATERIAL - FLOORING
A4-01 = ASBESTOS - MISC. MATERIAL - OTHER
A5-01 = ASBESTOS - MISC. MATERIAL - JOINT COMPOUND
A6-01 = ASBESTOS - MISC. MATERIAL - VERMICULITE
A8-01 = ASBESTOS - MISC. MATERIAL - CAULK
B2-01 = ASBESTOS - BULK SAMPLE LOCATIONS
B2.1-01 = ASBESTOS - BULK SAMPLE LOCATIONS
F1-01 = ASBESTOS - FUNCTIONAL SPACES
L1-01 = LEAD BASED PAINT



First Level

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TITLE:

HAZARDOUS MATERIALS DRAWINGS
WEST HIGH SCHOOL – BASEMENT AND FIRST LEVELS
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

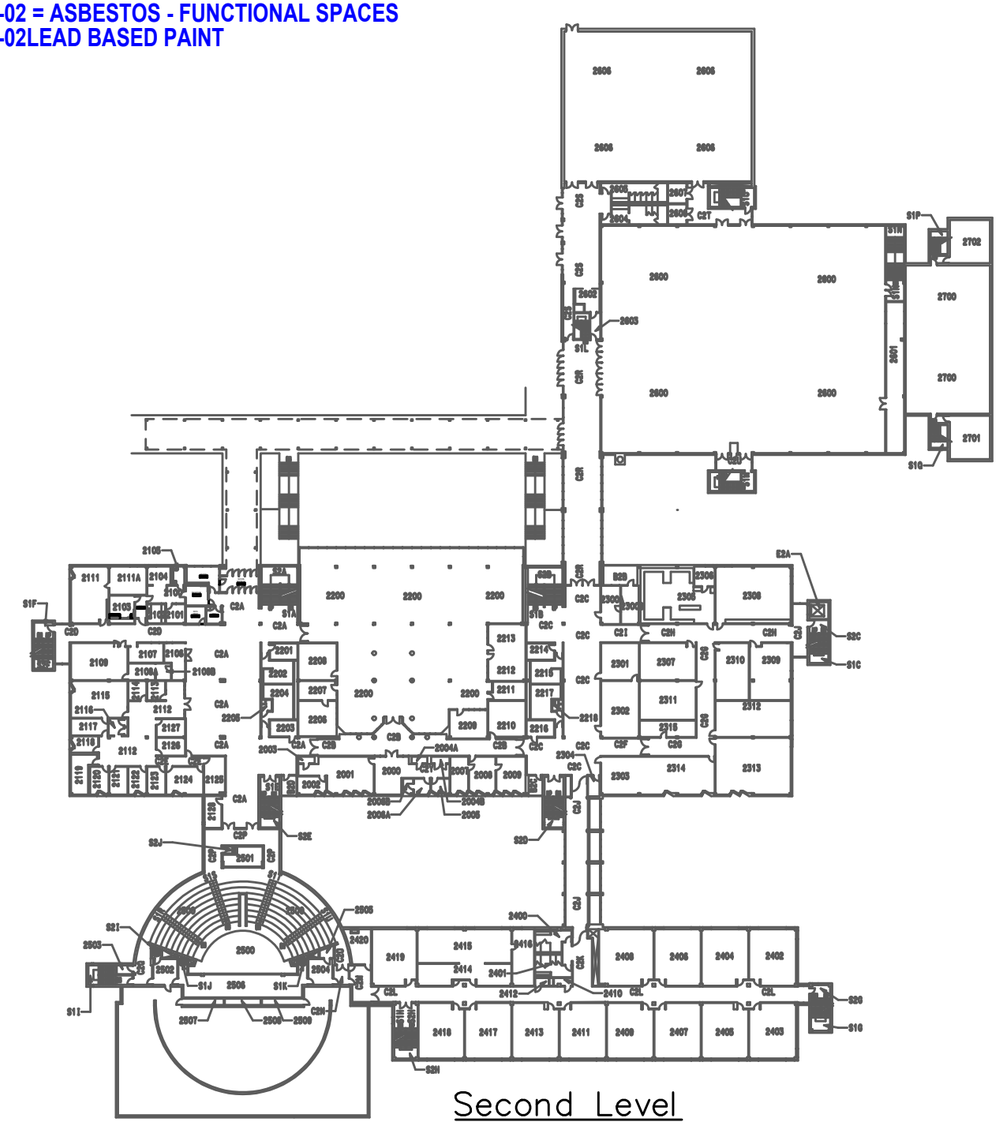
DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
ASSEMBLED: 11–09–21	REV: 0

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

HMD–1.0

DRAWING INDEX SECOND LEVEL

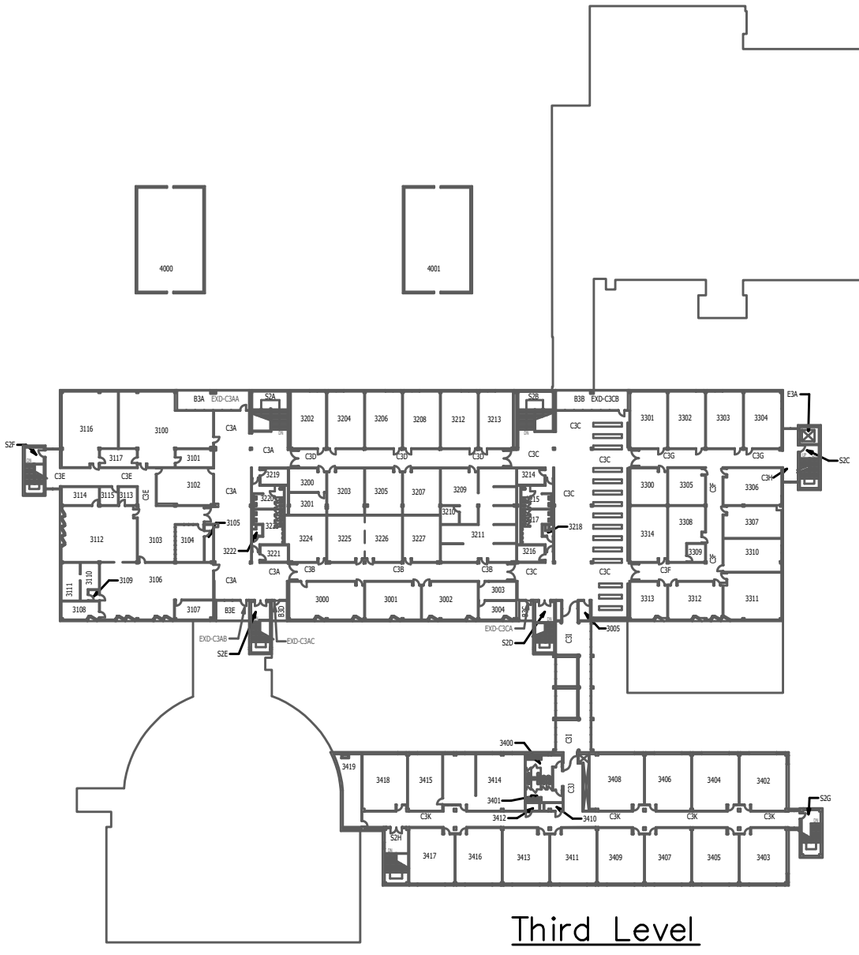
A2-02 = ASBESTOS - THERMAL SYSTEMS INSULATION
A3-02 = ASBESTOS - MISC. MATERIAL - FLOORING
A4-02 = ASBESTOS - MISC. MATERIAL - OTHER
A5-02 = ASBESTOS - MISC. MATERIAL - JOINT COMPOUND
A6-02 = ASBESTOS - MISC. MATERIAL - VERMICULITE
A8-02 = ASBESTOS - MISC. MATERIAL - CAULK
B3-02 = ASBESTOS - BULK SAMPLE LOCATIONS
B3.1-02 = ASBESTOS - BULK SAMPLE LOCATIONS
F1-02 = ASBESTOS - FUNCTIONAL SPACES
L1-02LEAD BASED PAINT



Second Level

DRAWING INDEX THIRD LEVEL

A1-03 = ASBESTOS - SURFACING MATERIAL
A2-03 = ASBESTOS - THERMAL SYSTEMS INSULATION
A3-03 = ASBESTOS - MISC. MATERIAL - FLOORING
A4-03 = ASBESTOS - MISC. MATERIAL - OTHER
A5-03 = ASBESTOS - MISC. MATERIAL - JOINT COMPOUND
B4-03 = ASBESTOS - BULK SAMPLE LOCATIONS
F1-03 = ASBESTOS - FUNCTIONAL SPACES
L1-03 = LEAD BASED PAINT



Third Level

DRAWING INDEX ROOF LEVEL

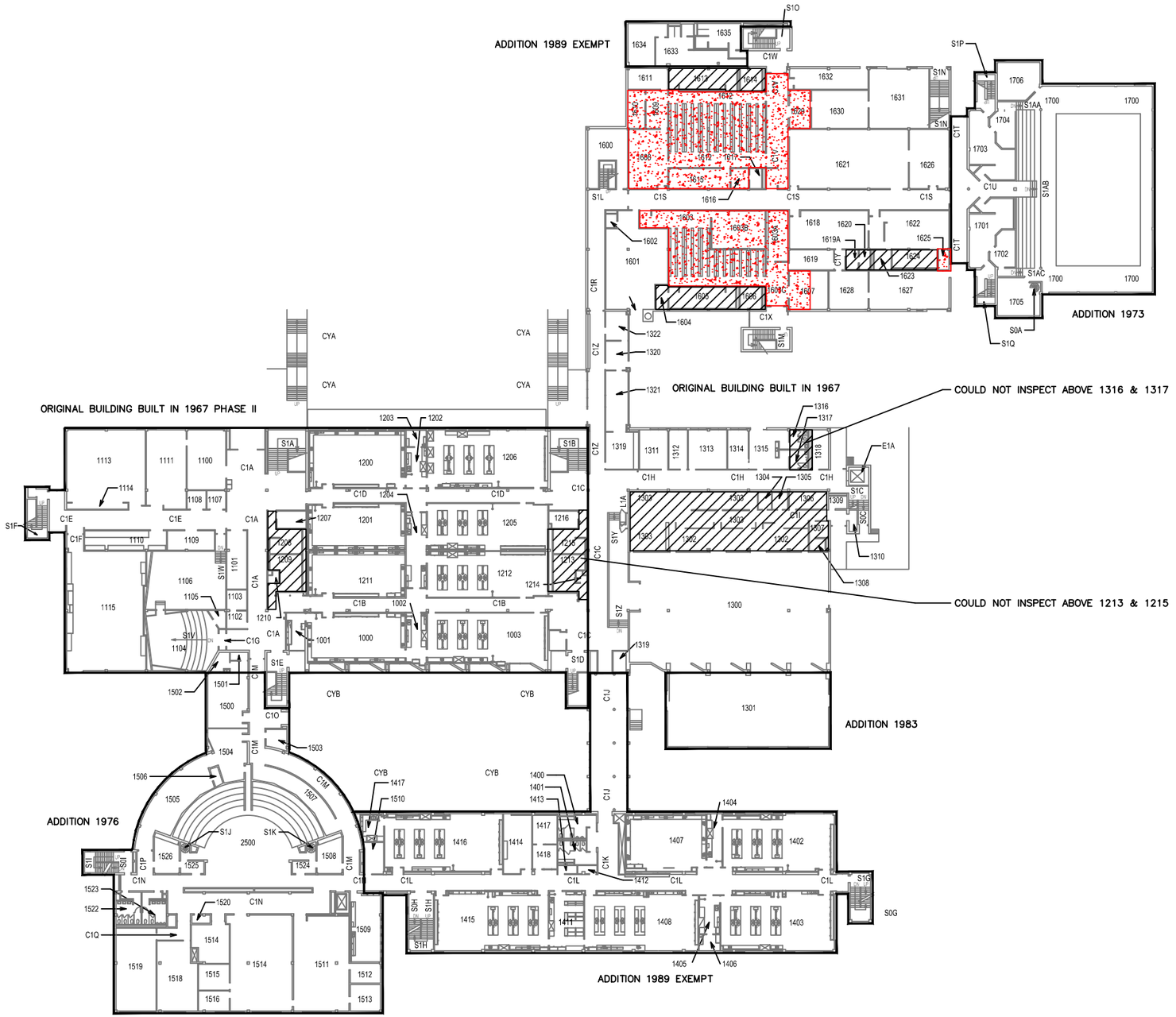
A4-RF = ASBESTOS - MISC. MATERIAL ROOFING
B5-RF = ASBESTOS - BULK SAMPLE LOCATIONS
F1-RF = ASBESTOS - FUNCTIONAL SPACES

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TITLE:
HAZARDOUS MATERIALS DRAWINGS
WEST HIGH SCHOOL –SECOND AND THIRD LEVELS
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
ASSEMBLED: 11–09–21	REV: 0	HMD–1.1



0 60
FEET

LEGEND

- SPRAY–APPLIED ACOUSTICAL CEILING MATERIAL POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #1
- AREA NOT ACCESSIBLE TO INSPECT ABOVE CEILING
- BUILDING ADDITION YEAR OF COMPLETION

NOTES:
1. Locations of asbestos–containing material (ACM) are approximate.
2. PSI was unable to inspect above plaster or gypsum board ceilings. The concrete deck above these types of ceilings may have a spray applied acoustical material.
3. 2012 Floor plan revisions reflected on this drawing.

psi Information To Build On
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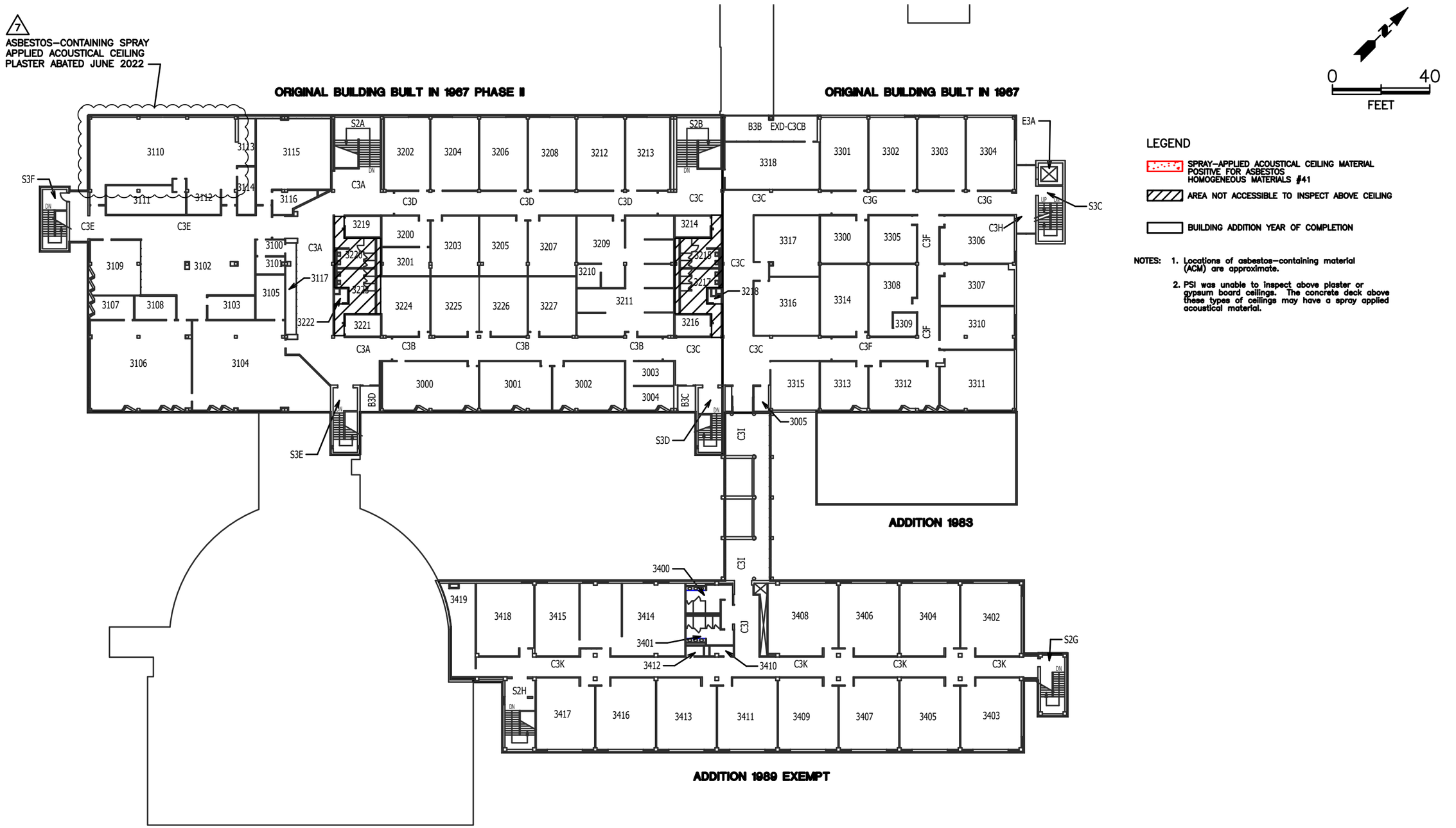
TITLE:
ASBESTOS – SURFACING MATERIAL
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
10–17–14	7

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A1–01



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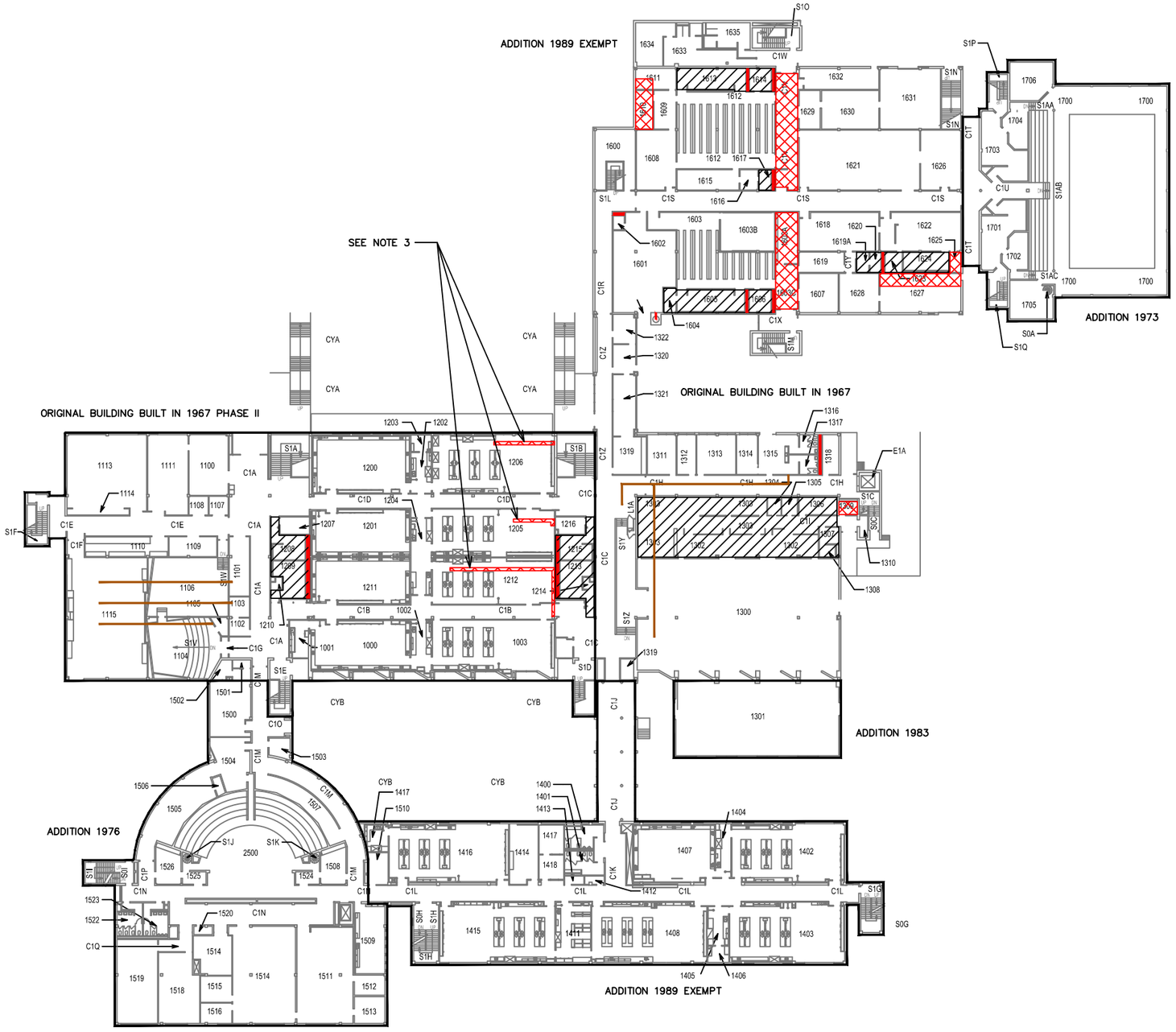
TITLE:
ASBESTOS – SURFACING MATERIAL
WEST HIGH SCHOOL – THIRD LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 09–21–22	REV: 7

PROJECT NO: 00291604
PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

A1–03



0 60
FEET

LEGEND

- CEMENTITOUS (MUDDED) PIPE FITTING INSULATION POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #2, #3 & #42
- CEMENTITIOUS (MUDDED) PIPE FITTING INSULATION POSITIVE FOR ASBESTOS PRESUMED TO BE IN PIPE CHASE HOMOGENEOUS MATERIALS #2, #3 & #42
- BOILER FLUE BREACHING POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #6
- TAN MASTIC ON DUCTWORK INSULATION POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #73 – ABOVE CEILING
- AREA NOT ACCESSIBLE TO INSPECT ABOVE CEILING
- BUILDING ADDITION YEAR OF COMPLETION

NOTES:

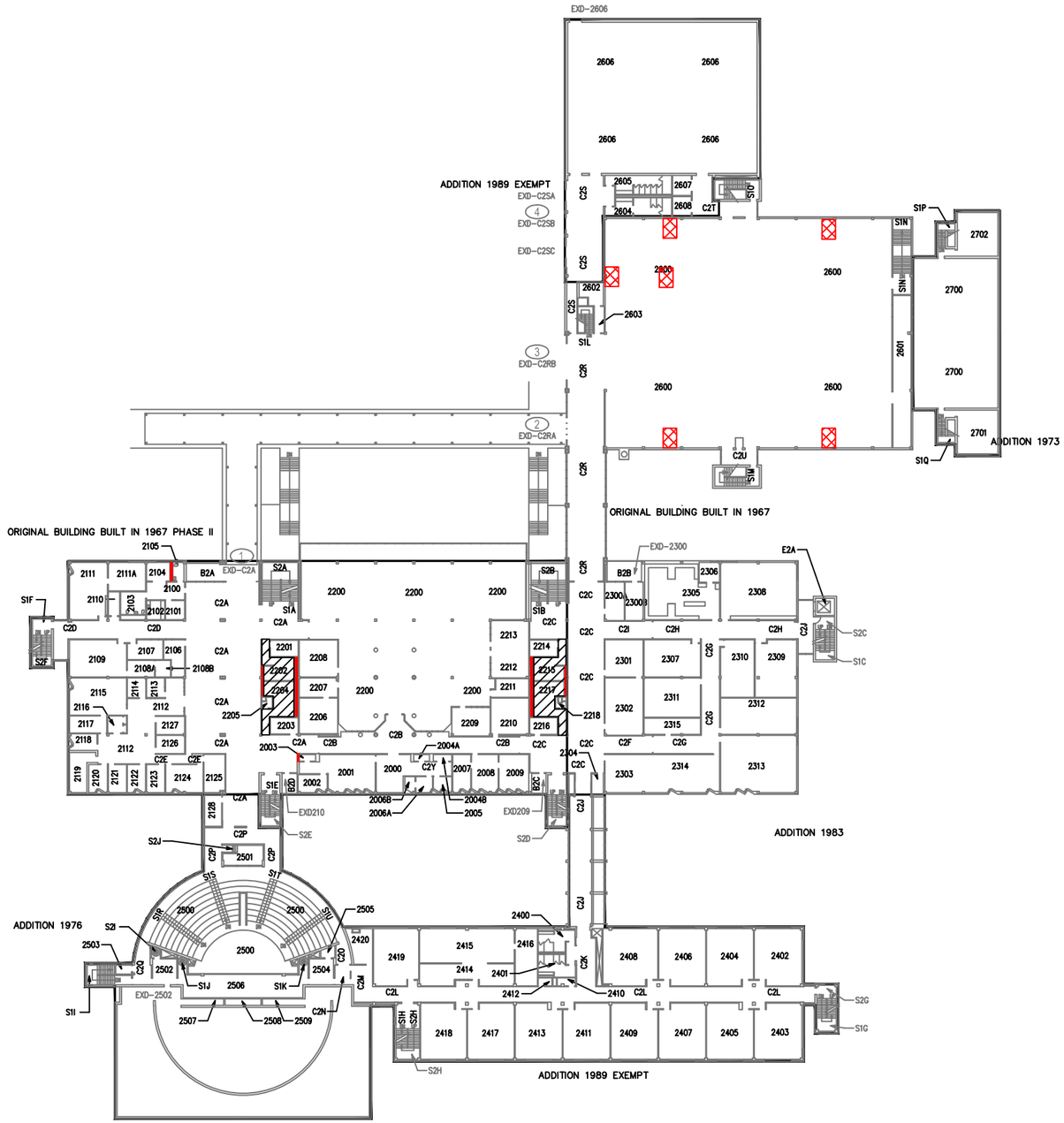
1. Locations of asbestos–containing material (ACM) are approximate.
2. PSI was unable to inspect above plaster or gypsum board ceilings. These areas may contain cementitious pipe fitting insulation, that was not abated in June 2003. Homogeneous Materials #2, #3, & #42.
3. There are cementitious pipe fittings in a portion of the pipe trenches in the science, biology and chemistry area. This portion of the trenches were not opened in the 2012 renovations.
4. The thermal system insulation (TSI) on the hot water tank and boiler flue breeching in 1601 were abated in March 2002. Breeching remains where it exits the room and enters chimney / stack.
5. 2012 Floor plan revisions reflected on this drawing.

psi Information To Build On
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TITLE:
ASBESTOS – THERMAL SYSTEM INSULATION
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 10–17–14	REV: 8	A2–01



LEGEND

- CEMENTITOUS (MUDDED) PIPE FITTING INSULATION POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #2, #3 & #42
- CEMENTITIOUS (MUDDED) PIPE FITTING INSULATION POSITIVE FOR ASBESTOS PRESUMED TO BE IN PIPE CHASE HOMOGENEOUS MATERIALS #2, #3 & #42
- AREA NOT ACCESSIBLE TO INSPECT ABOVE CEILING
- BUILDING ADDITION YEAR OF COMPLETION

0 70
FEET

NOTES:
1. Locations of asbestos-containing material (ACM) are approximate.
2. PSI was unable to inspect above plaster or gypsum board ceilings. These areas may contain cementitious pipe fitting insulation, that was not abated in June 2003 Homogeneous Materials #2, #3, & #42.

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TITLE:
ASBESTOS – THERMAL SYSTEM INSULATION
WEST HIGH SCHOOL – SECOND LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 10-17-14	REV: 4

PROJECT NO: 00291604
PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

A2-02



NOTES:
1. Locations of asbestos-containing material (ACM) are approximate.
2. PSI was unable to inspect above plaster or gypsum board ceilings. These areas may contain cementitious pipe fitting insulation, that was not abated in June 2003. Homogeneous Materials #2, #3, & #42.

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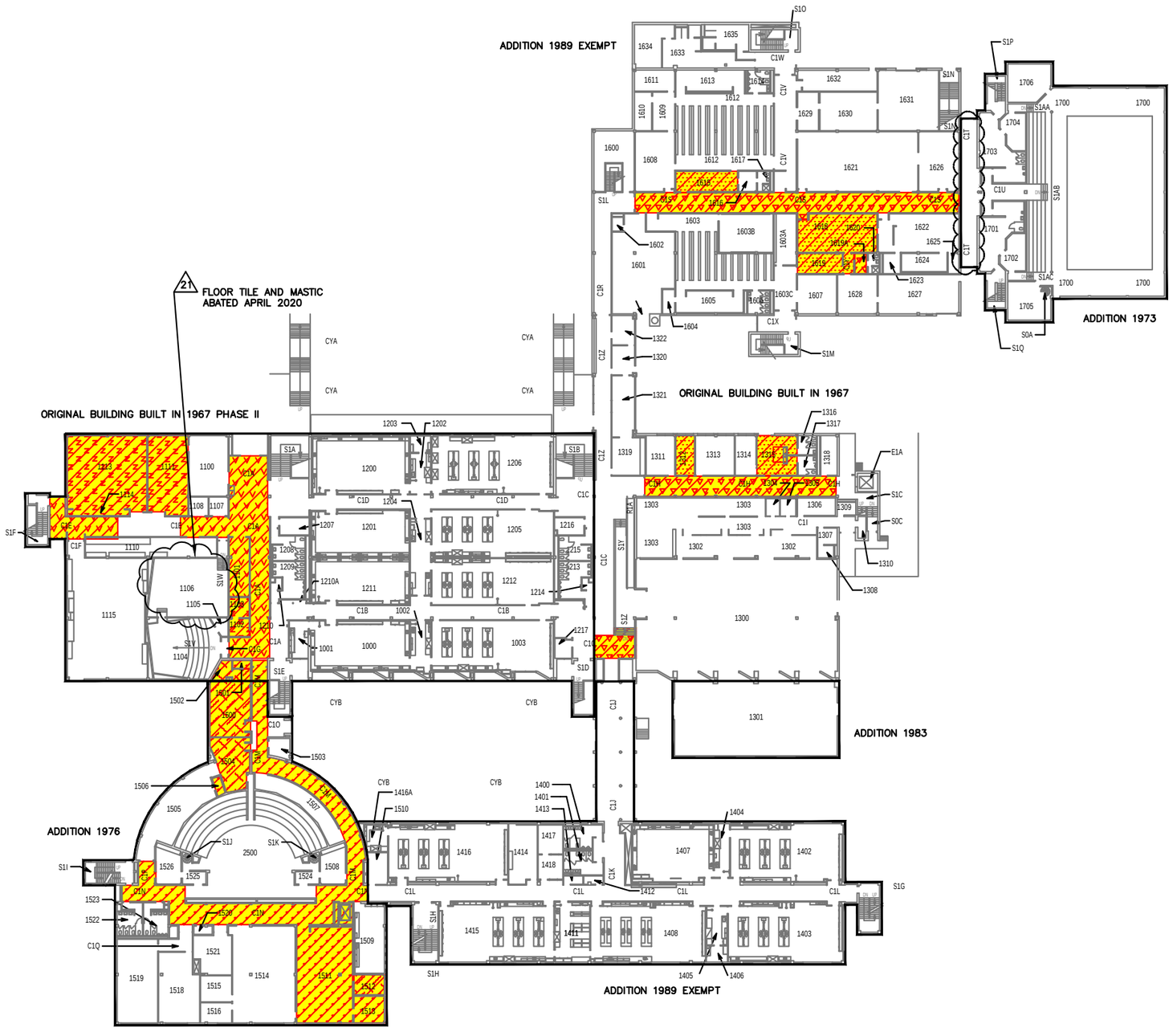
TITLE:
ASBESTOS – THERMAL SYSTEM INSULATION
WEST HIGH SCHOOL – THIRD LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
10-17-14	3

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A2-03



0 60
FEET

LEGEND

- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #12 EXPOSED
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #12 UNDER CARPET
- FLOOR TILE NEGATIVE FOR ASBESTOS / MASTIC POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #13 EXPOSED
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #54 EXPOSED
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #54 UNDER CARPET
- CARPET WITH YELLOW MASTIC OVER BLACK MASTIC POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #66 UNDER CARPET
- FLOOR TILE NEGATIVE FOR ASBESTOS / MASTIC POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #94 EXPOSED
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #95 EXPOSED
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #112 EXPOSED
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #112 UNDER CARPET
- FLOOR TILE NEGATIVE FOR ASBESTOS / MASTIC POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #138 EXPOSED
- BUILDING ADDITION YEAR OF COMPLETION

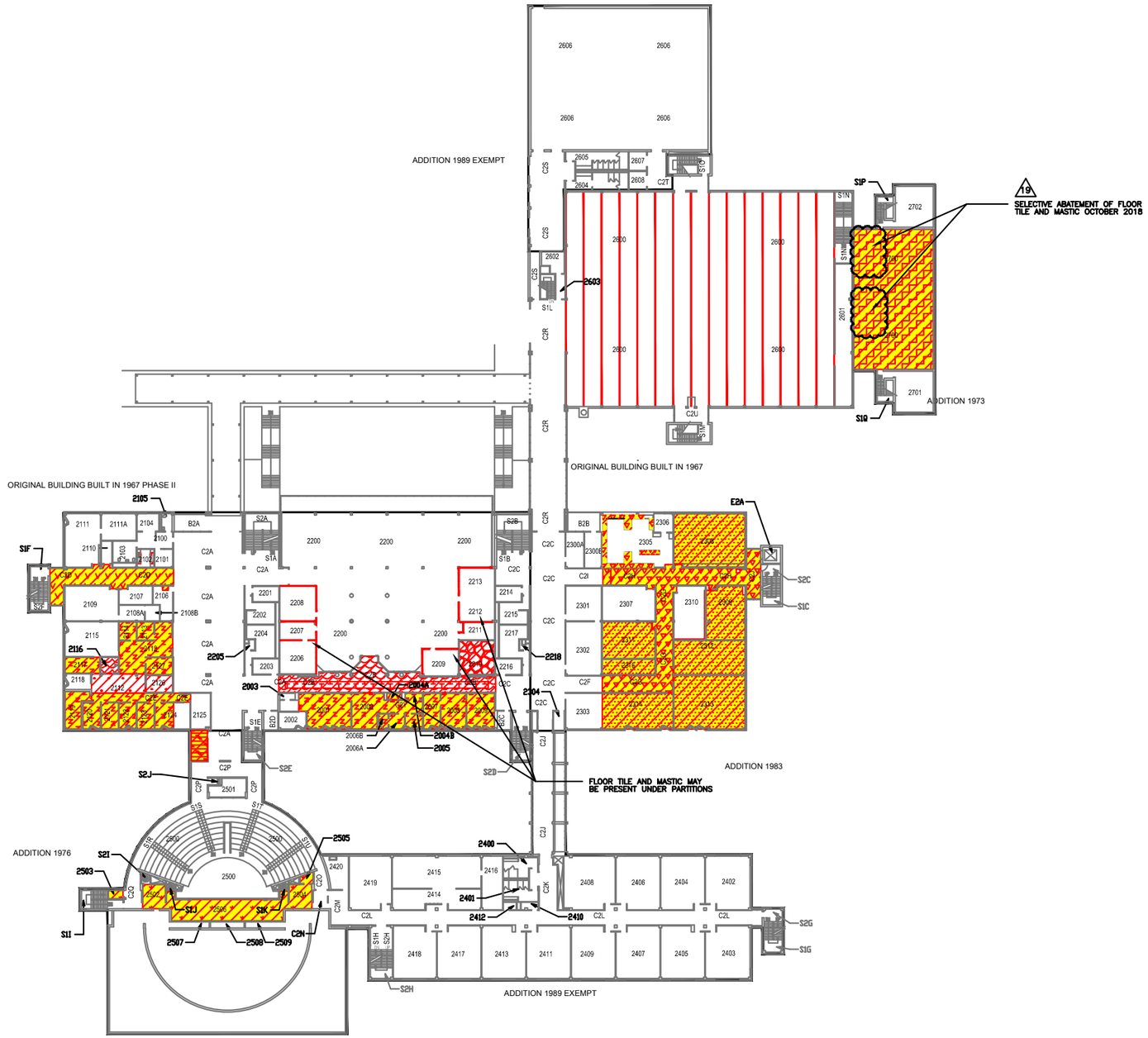
NOTES:
1. Locations of asbestos–containing material (ACM) are approximate.
2. 2012 Floor plan revisions reflected on this drawing.

psi Information To Build On
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TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – FLOORING
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 04–15–2020	REV: 21	A3–01



LEGEND

- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #12 EXPOSED
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #12 UNDER CARPET
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #54 EXPOSED
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #54 UNDER CARPET
- FLOOR TILE NEGATIVE FOR ASBESTOS / MASTIC POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #56 EXPOSED
- FLOOR TILE NEGATIVE FOR ASBESTOS / MASTIC POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #56 UNDER CARPET
- CARPET WITH YELLOW MASTIC OVER BLACK MASTIC POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #66
- FLOOR TILE NEGATIVE FOR ASBESTOS / MASTIC POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #57 EXPOSED
- TOP LAYER OF FLOOR TILE AND MASTIC BOTH NEGATIVE FOR ASBESTOS BOTTOM LAYER OF FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #58 EXPOSED
- TOP LAYER OF FLOOR TILE AND MASTIC BOTH NEGATIVE FOR ASBESTOS BOTTOM LAYER OF FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #59 EXPOSED
- FLOOR TILE NEGATIVE FOR ASBESTOS / MASTIC POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #60 EXPOSED
- TOP LAYER OF FLOOR TILE AND MASTIC BOTH NEGATIVE FOR ASBESTOS BOTTOM LAYER OF FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #61 EXPOSED
- TOP LAYER OF FLOOR TILE AND MASTIC BOTH NEGATIVE FOR ASBESTOS BOTTOM LAYER OF FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #61 UNDER CARPET
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #95 EXPOSED
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #112 EXPOSED
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #112 UNDER CARPET
- FLOOR TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #168 UNDER CARPET
- MASTIC – BLACK (APPLIED TO WOOD SLEEPERS AND VAPOR BARRIER UNDER GYM FLOOR POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #39 – SEE NOTE #3
- BUILDING ADDITION YEAR OF COMPLETION
- FLOOR TILE AND/OR MASTIC MAY BE PRESENT UNDER PARTITION

0 70
FEET

NOTES:
1. Locations of asbestos–containing material (ACM) are approximate.
2. Floor tile and mastic remain under the counters in room 2102.
3. A 4" wide strip of mastic is present in room 2600. It is spaced approximately every 30 inches starting at the west doors proceeding east (63 rows of 4" x 120"). Material is under a Non–ACM "Float", wood sleepers & the gym floor.

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TITLE:
ASBESTOS – MISCELLANEOUS MATERIALS – FLOORING
WEST HIGH SCHOOL – SECOND LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 01–04–19	REV: 19

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A3–02

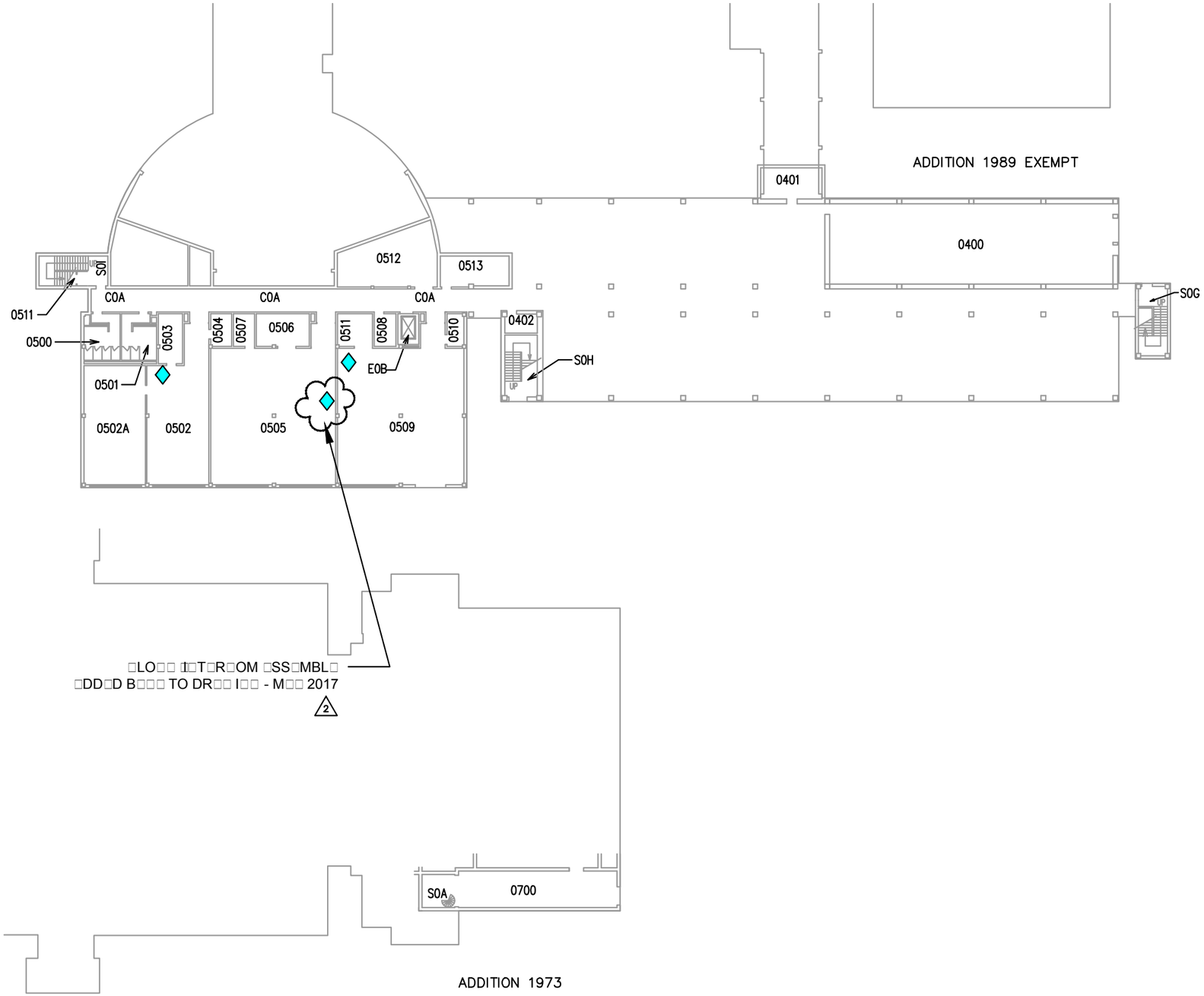


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TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – FLOORING
WEST HIGH SCHOOL – THIRD LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 09-21-22	REV: 10	A3-03



0 40
FEET

LEGEND

- SINK MASTIC/SEALANT – POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #24, #25, #26, #67, #68, #82 & #116
- SLATE CHALKBOARDS
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIALS #30, #84, #127 & #139
- MASTIC/SEALANT ON CLOCK/INTERCOM ASSEMBLY
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIALS #34, #79, #100 & #121
- BLACK MASTIC BEHIND WALL PANELING
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #77
- MASTIC ASSUMED TO BE BEHIND FIBERBOARD WALL PANELS
  ASSUMED TO CONTAIN ASBESTOS
  HOMOGENEOUS MATERIAL #83
- BUILDING ADDITION YEAR OF COMPLETION
  1982

NOTES:

1. Locations of asbestos–containing material (ACM) are approximate.
2. All chalkboards, metal or slate, are assumed to have an Asbestos–Containing mastic behind them. (Mastic=Homogeneous Materials #33, #85, #128 & #141)
3. All solid core, metal or wooden doors, are assumed to be Asbestos–Containing unless noted otherwise. (Homogeneous Material #35, #86, #103, #129 & #142)
4. Vibration joint cloth (VJC) sampled in the following additions, was negative for asbestos: 1967–Phase 1, 1973 and 1976.
5. Bulletin boards in the original building (1967–Phase 1) and the 1973 addition are assumed to have an asbestos–containing mastic behind them (Homogeneous Materials #38, #104 & #132)

2

6. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.
7. All mirrors are assumed to have an asbestos–containing mastic behind them.

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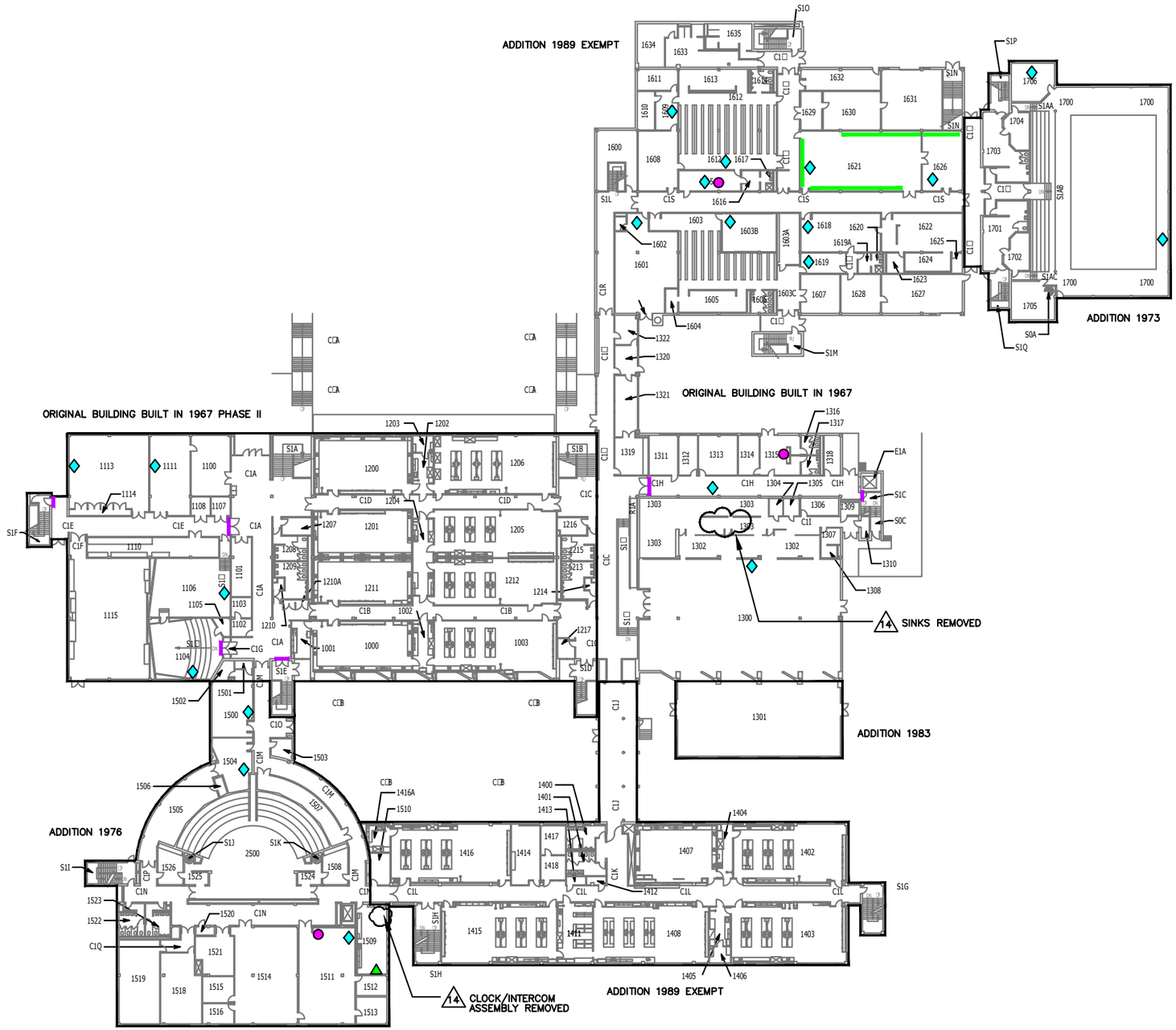
TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – OTHER
WEST HIGH SCHOOL – BASEMENT LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
05–03–17	2

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A4–00



0 60
FEET

LEGEND

- SINK MASTIC/SEALANT – POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #24, #25, #26, #67, #68, #82 & #116
- SLATE CHALKBOARDS
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIALS #30, #84, #127 & #139
- MASTIC/SEALANT ON CLOCK/INTERCOM ASSEMBLY
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIALS #34, #79, #100 & #121
- BLACK MASTIC BEHIND WALL PANELING
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #77
- MASTIC ASSUMED TO BE BEHIND FIBERBOARD WALL PANELS
  ASSUMED TO CONTAIN ASBESTOS
  HOMOGENEOUS MATERIAL #83
- MASTIC ASSUMED TO BE BEHIND MIRRORS
  ASSUMED TO CONTAIN ASBESTOS
  HOMOGENEOUS MATERIAL #145
- HEADER ABOVE FIRE DOORS
  HOMOGENEOUS MATERIAL #167
- BUILDING ADDITION YEAR OF COMPLETION

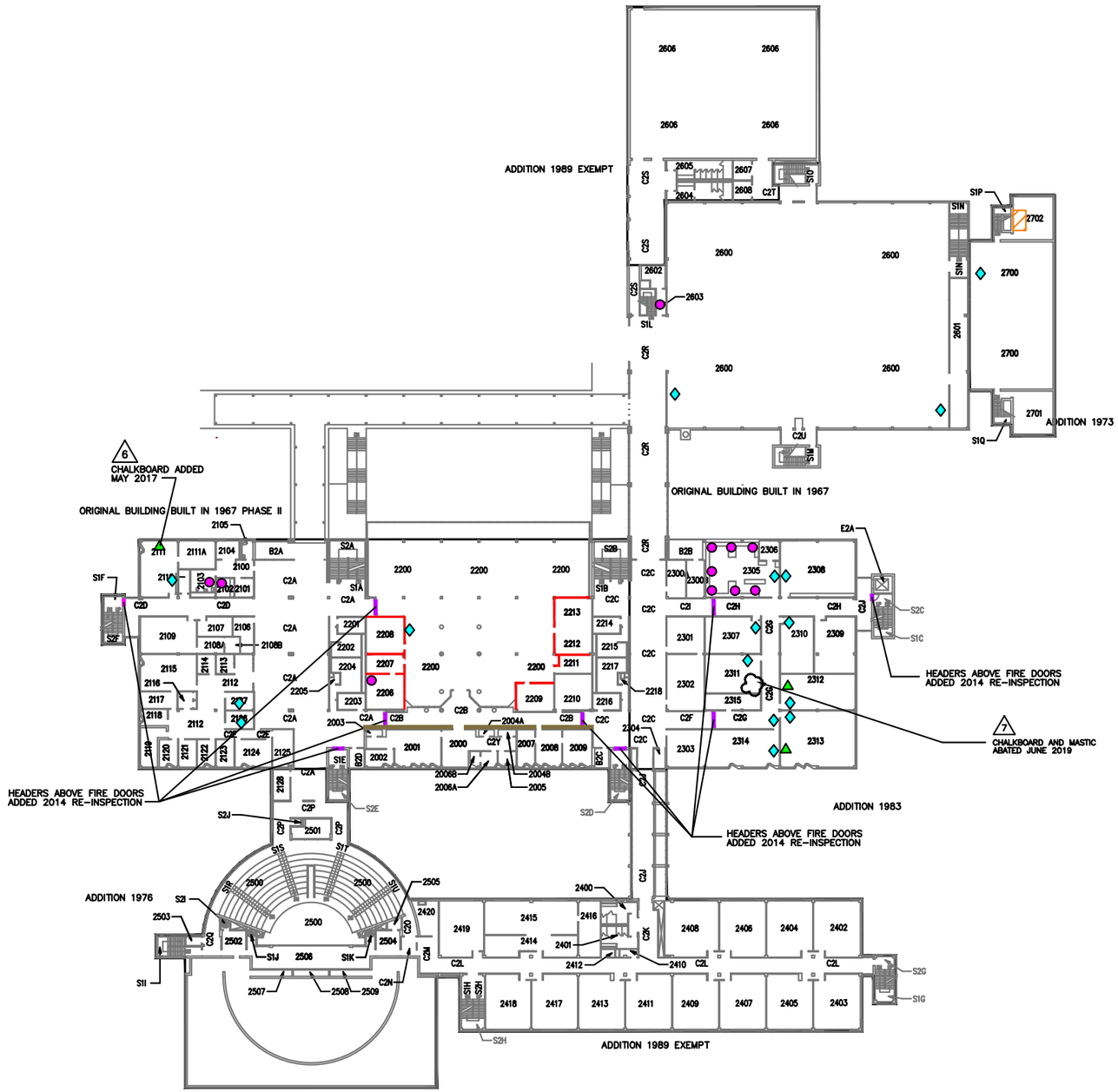
NOTES:
1. Locations of asbestos–containing material (ACM) are approximate.
2. All chalkboards, metal or slate, are assumed to have an Asbestos–Containing mastic behind them. (Mastic=Homogeneous Materials #33, #85, #128 & #141)
3. All solid core, metal or wooden doors, are assumed to be Asbestos–Containing unless noted otherwise. (Homogeneous Material #35, #86, #103, #129 & #142)
4. Vibration joint cloth (VJC) sampled in the following additions, was negative for asbestos: 1967–Phase 1, 1973 and 1976.
5. Bulletin boards in the original building (1967–Phase 1) and the 1973 addition are assumed to have an asbestos–containing mastic behind them (Homogeneous Materials #38, #104 & #132)
14 6. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.
7. All mirrors are assumed to have an asbestos–containing mastic behind them.

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TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – OTHER
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 05–03–17	REV: 14	A4–01



LEGEND

- SINK MASTIC/SEALANT – POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #24, #25, #26, #67, #68, #82 & #116
- SLATE CHALKBOARDS
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIALS #30, #84, #127 & #139
- MASTIC/SEALANT ON CLOCK/INTERCOM ASSEMBLY
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIALS #34, #79, #100 & #121
- BLACK MASTIC BEHIND WALL PANELING
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #77
- MASTIC ASSUMED TO BE BEHIND FIBERBOARD WALL PANELS
  ASSUMED TO CONTAIN ASBESTOS
  HOMOGENEOUS MATERIAL #83
- GREY MASTIC ON DUCT SEAMS
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #101
- HEADER ABOVE FIRE DOORS
  HOMOGENEOUS MATERIAL #167
- BUILDING ADDITION YEAR OF COMPLETION

0 70
FEET

NOTES:
1. Locations of asbestos–containing material (ACM) are approximate.
2. All chalkboards, metal or slate, are assumed to have an Asbestos–Containing mastic behind them. (Mastic=Homogeneous Materials #33, #85, #128 & #141)
3. All solid core, metal or wooden doors, are assumed to be Asbestos–Containing unless noted otherwise. (Homogeneous Material #35, #86, #103, #129 & #142)
4. Vibration joint cloth (VJC) sampled in the following additions, was negative for asbestos: 1967–Phase 1, 1973 and 1976.
5. Bulletin boards in the original building (1967–Phase 1) and the 1973 addition are assumed to have an asbestos–containing mastic behind them (Homogeneous Materials #38, #104 & #132)
6. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.
7. All mirrors are assumed to have an asbestos–containing mastic behind them.

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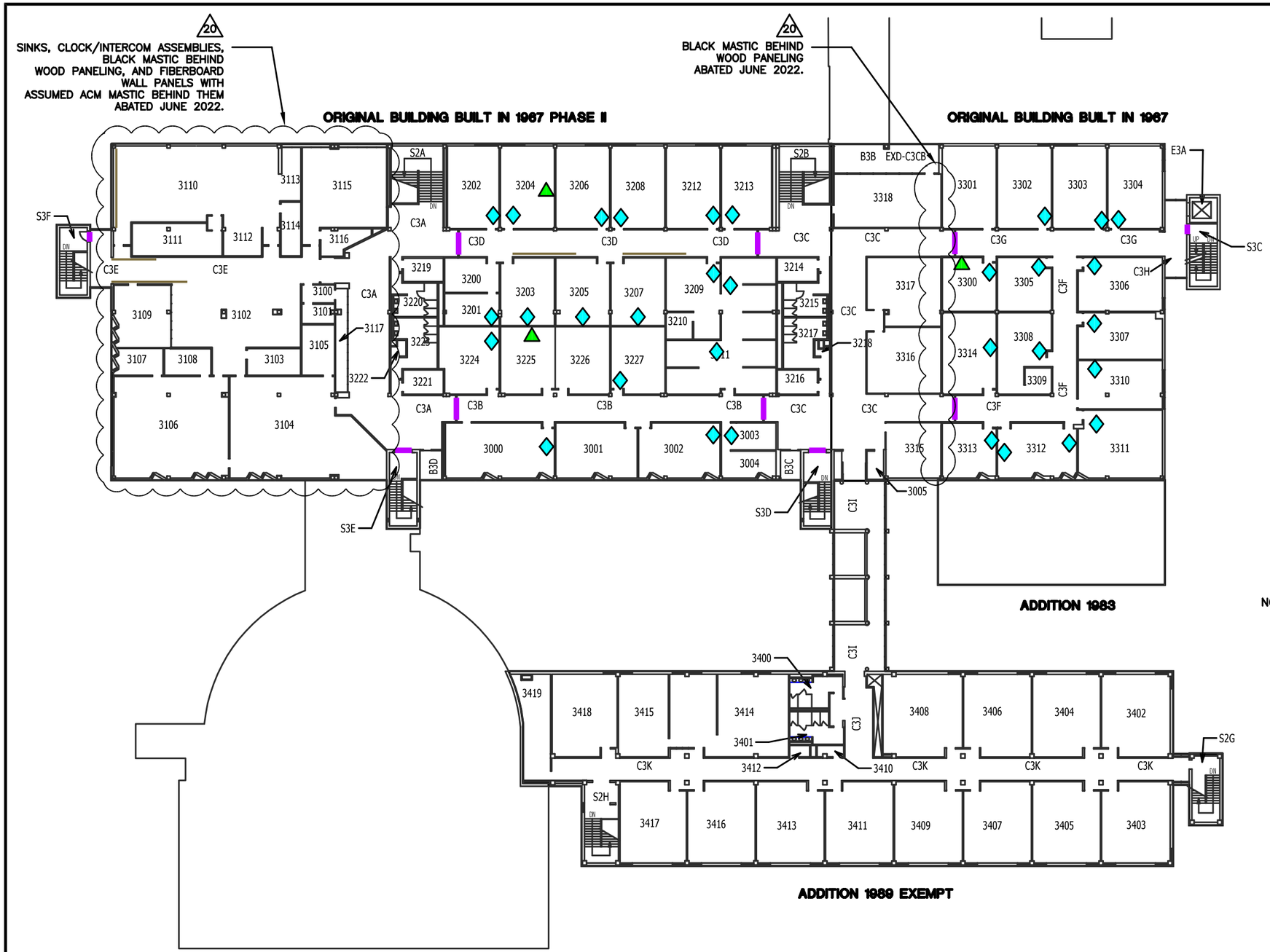
TITLE:
ASBESTOS – MISCELLANEOUS MATERIALS – OTHER
WEST HIGH SCHOOL – SECOND LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
10–14–19	7

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A4–02



LEGEND

- SINK MASTIC/SEALANT – POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #24, #25, #26, #67, #68, #82 & #116
- SLATE CHALKBOARDS
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIALS #30, #84, #127 & #139
- MASTIC/SEALANT ON CLOCK/INTERCOM ASSEMBLY
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIALS #34, #79, #100 & #121
- BLACK MASTIC BEHIND WALL PANELING
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #77
- MASTIC ASSUMED TO BE BEHIND FIBERBOARD WALL PANELS
  ASSUMED TO CONTAIN ASBESTOS
  HOMOGENEOUS MATERIAL #83
- HEADER ABOVE FIRE DOORS
  HOMOGENEOUS MATERIAL #167
- BUILDING ADDITION YEAR OF COMPLETION

NOTES:

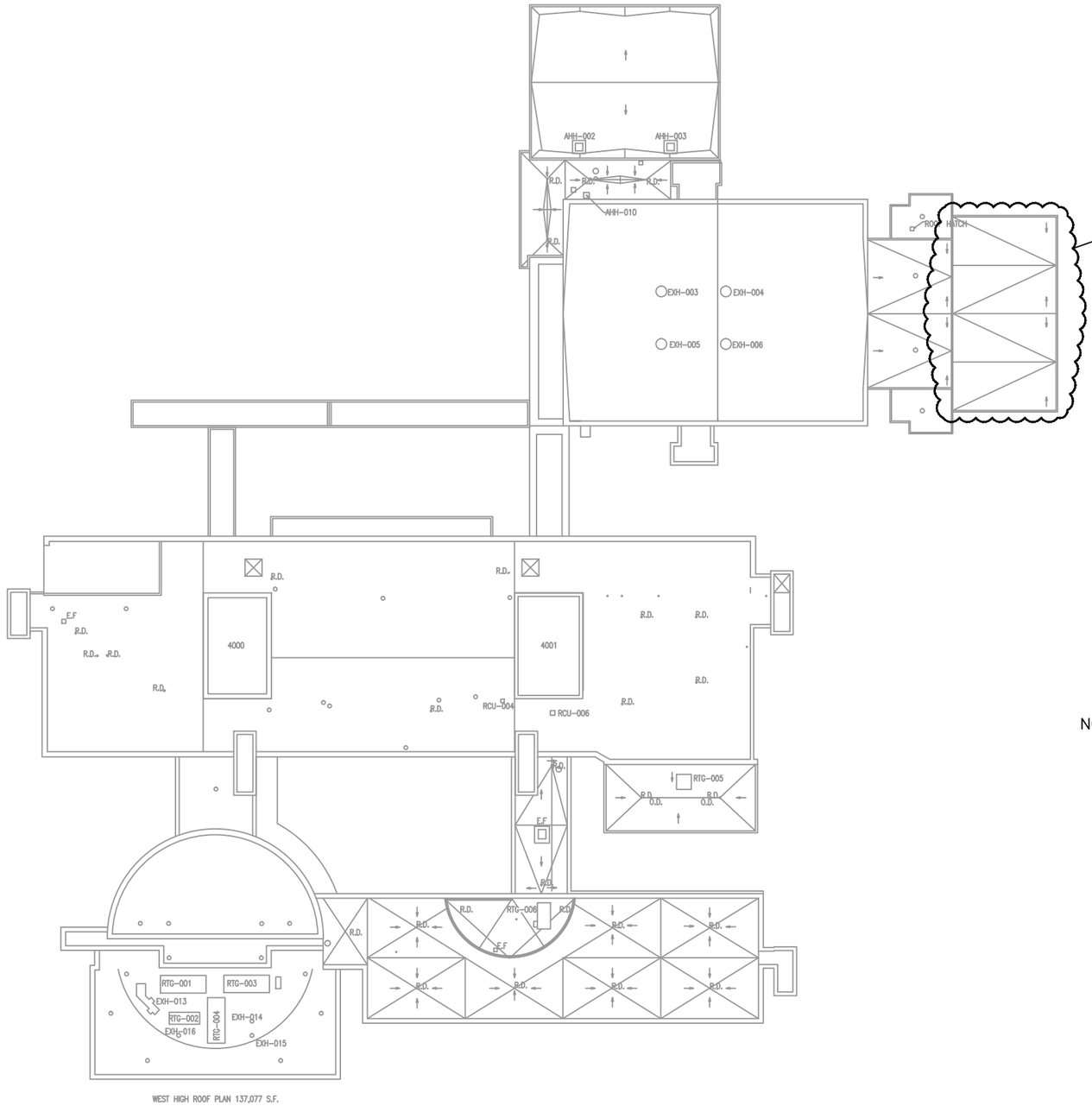
1. Locations of asbestos–containing material (ACM) are approximate.
2. All chalkboards, metal or slate, are assumed to have an Asbestos–Containing mastic behind them. (Mastic=Homogeneous Materials #33, #85, #128 & #141)
3. All solid core, metal or wooden doors, are assumed to be Asbestos–Containing unless noted otherwise. (Homogeneous Material #35, #86, #103, #129 & #142)
4. Vibration joint cloth (VJC) sampled in the following additions, was negative for asbestos: 1967–Phase 1, 1973 and 1976.
5. Bulletin boards in the original building (1967–Phase 1) and the 1973 addition are assumed to have an asbestos–containing mastic behind them (Homogeneous Materials #38, #104 & #132)
6. Tables with possible ACM table tops (laboratory tables) are found in room 3100, 3116 & 3112.
7. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.
8. All mirrors are assumed to have an asbestos–containing mastic behind them.

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TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – OTHER
WEST HIGH SCHOOL – THIRD LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 09–21–22	REV: 20	A4–03



WEST HIGH ROOF PLAN 137,077 S.F.

0 40
FEET

1 ASBESTOS–CONTAINING ROOFING MATERIALS REPLACED AUGUST 2011.

LEGEND

APPROXIMATE LOCATION OF ASBESTOS–CONTAINING ROOF FLASHING

APPROXIMATE LOCATION OF ASBESTOS–CONTAINING ROOFING MATERIALS

NOTES:
1. Locations of asbestos–containing materials are approximate.
2. On roofs were the perimeter flashing contains asbestos, the flashing around all equipment, curbs, and penetrations is also assumed to contain asbestos, even if not depicted on this drawing.

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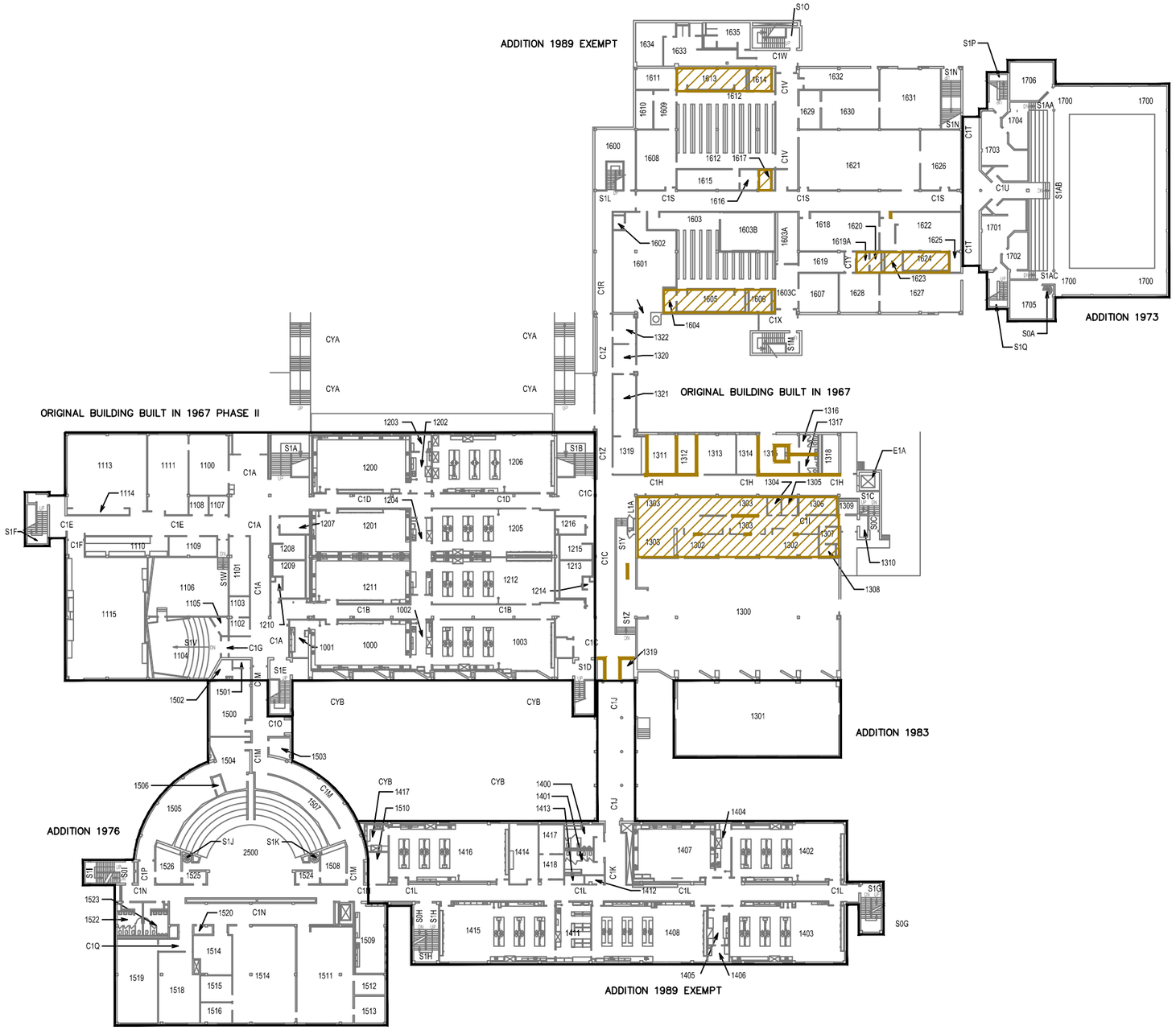
TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – ROOFING
WEST HIGH SCHOOL – ROOF LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
05–05–15	1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A4–RF



0 60
FEET

LEGEND

- DRYWALL TAPE AND JOINT COMPOUND (WALLS) POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #8
- CEILINGS OR SOFFITS THAT HAVE DRYWALL TAPE AND JOINT COMPOUND POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #8
- BUILDING ADDITION YEAR OF COMPLETION

NOTES: 1. Locations of asbestos-containing material (ACM) are approximate.

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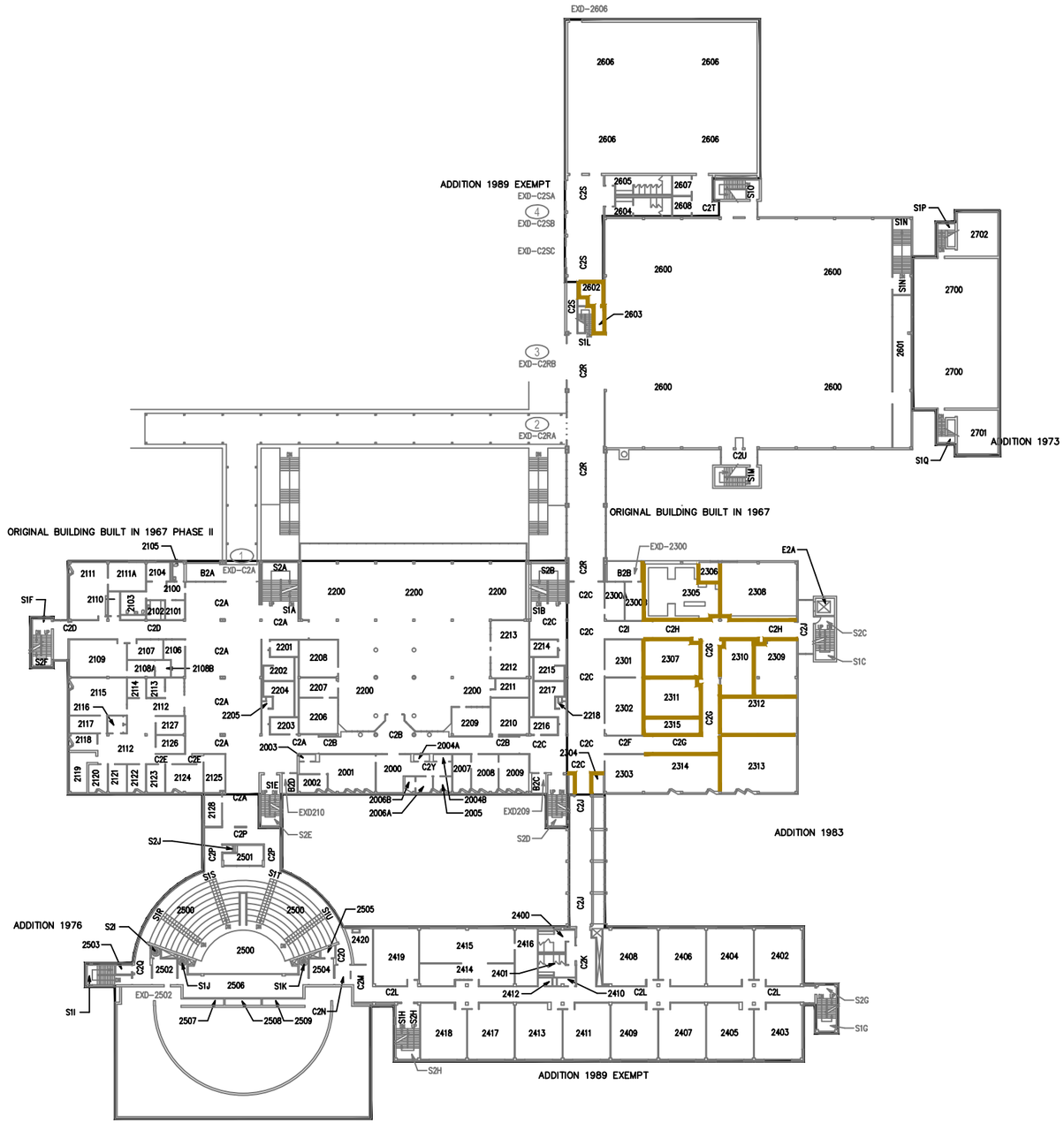
TITLE:
ASBESTOS – MISC. MATERIAL – JOINT COMPOUND
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 10-17-14	REV: 4

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A5-01



LEGEND

DRYWALL TAPE AND JOINT COMPOUND (WALLS) POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #8

BUILDING ADDITION YEAR OF COMPLETION

NOTES: 1. Locations of asbestos-containing material (ACM) are approximate.

0 70
FEET

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TITLE:

ASBESTOS – MISCELLANEOUS MATERIALS – JOINT COMPOUND
WEST HIGH SCHOOL – SECOND LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 10-17-14	REV: 5

PROJECT NO: 00291604
PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

A5-02



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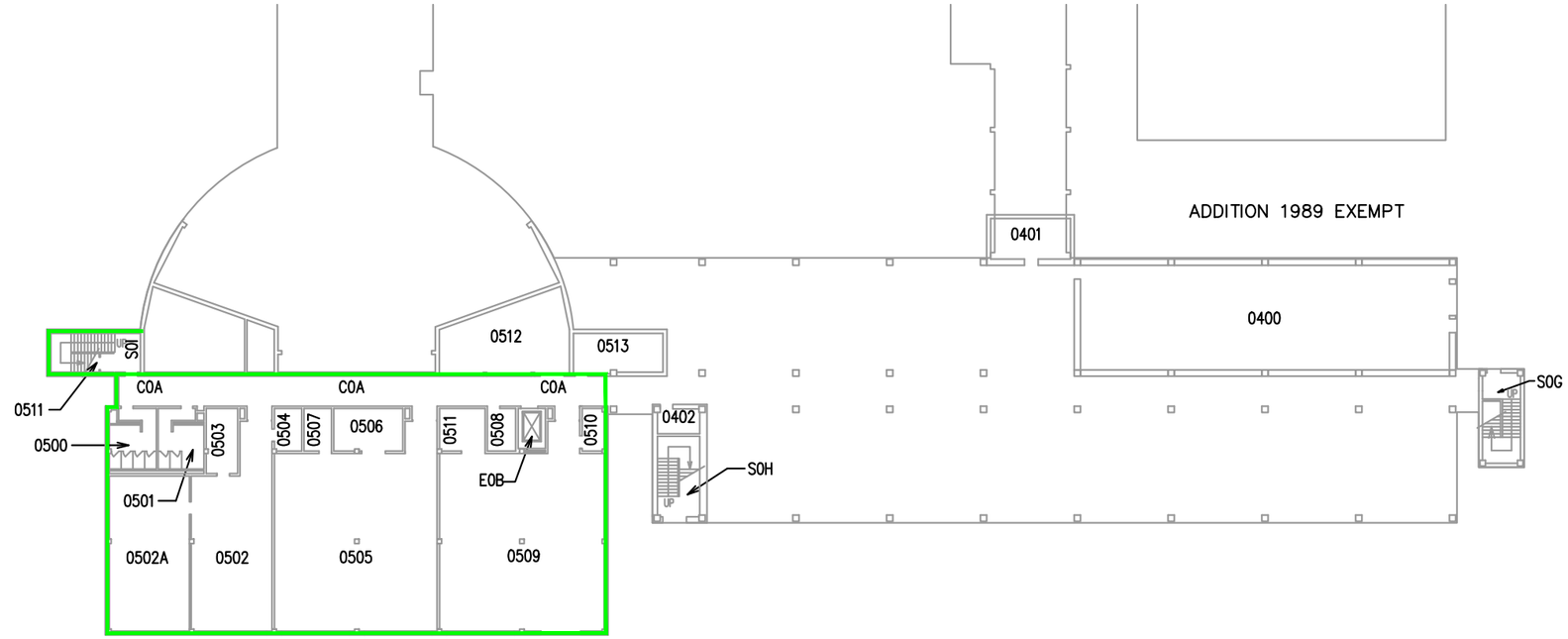
TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – JOINT COMPOUND
WEST HIGH SCHOOL – THIRD LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

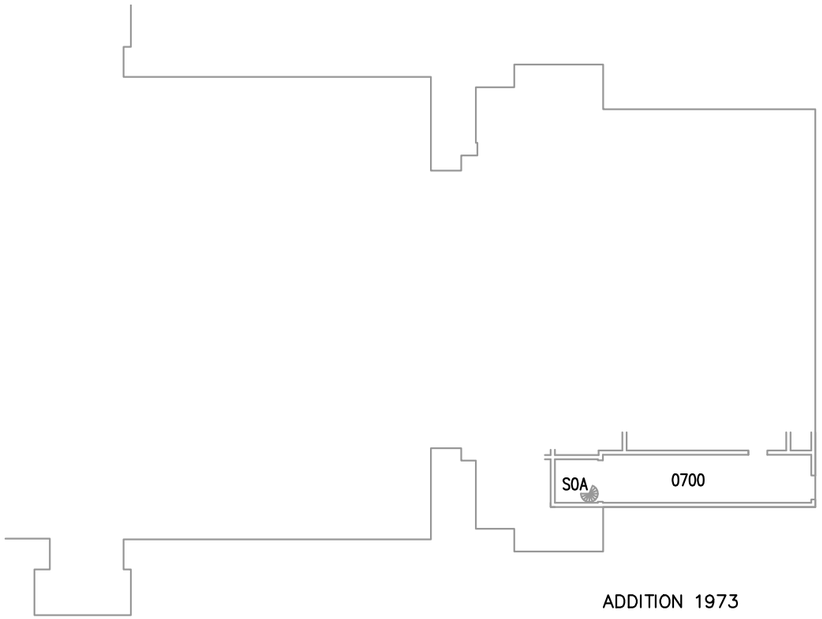
PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 09-21-22	REV: 7

PROJECT NO: 00291604
PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

A5-03





0 40
FEET

LEGEND

- CONCRETE BLOCK WALLS BELIEVED TO CONTAIN VERMICULITE INSULATION – HOMOGENEOUS MATERIAL #112
- CONCRETE BLOCK WALLS CONFIRMED TO CONTAIN VERMICULITE INSULATION – HOMOGENEOUS MATERIAL #112
- BUILDING ADDITION WITH MONTH AND YEAR OF COMPLETION

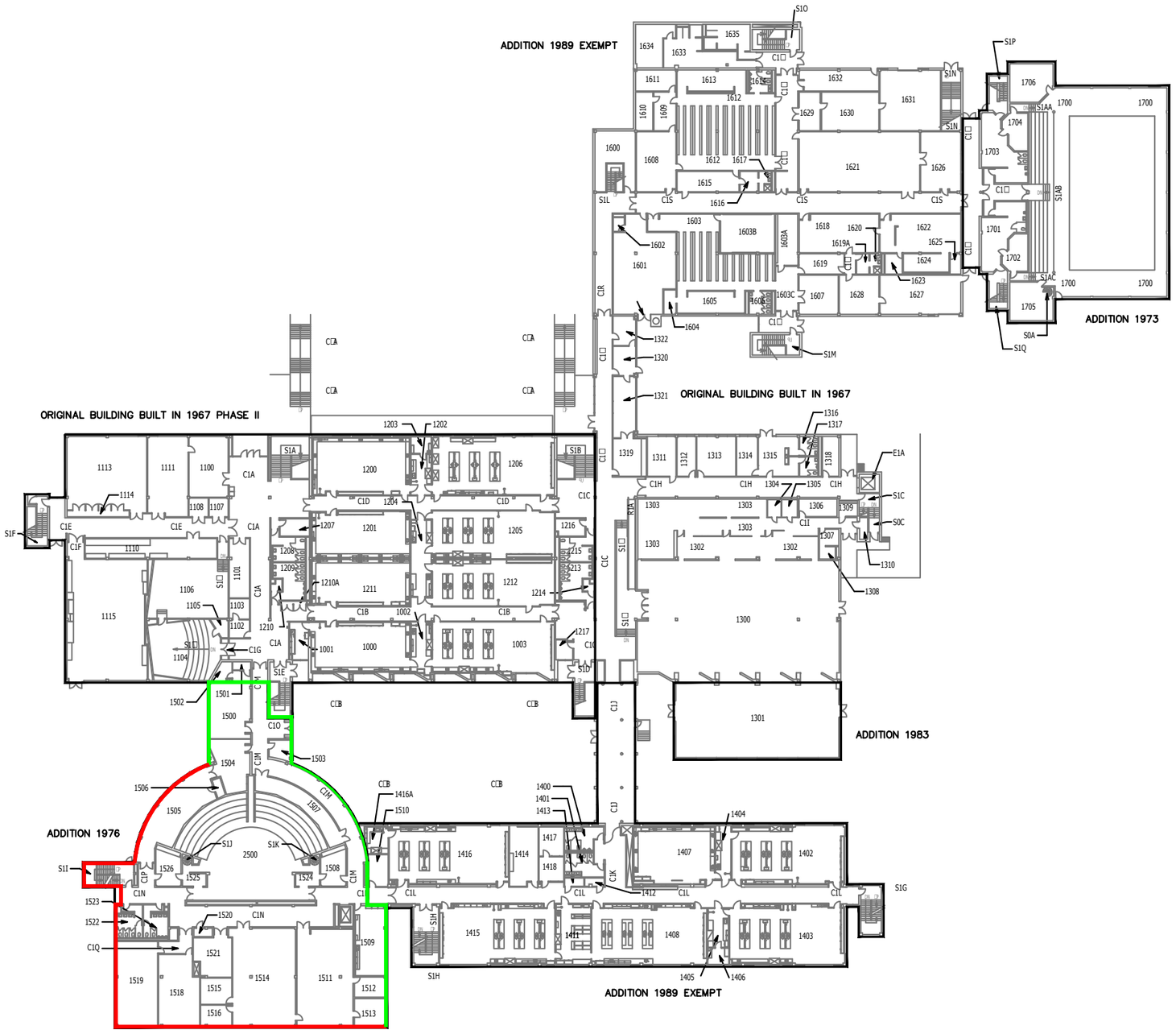
NOTES:
1. This drawing includes floor plan revisions through August 2012
2. Asbestos–containing vermiculite insulation is believed to be contained in the concrete block walls.
2. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.
4. Basement walls are poured concrete at the base with concrete blocks at the upper portion of wall.

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TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – VERMICULITE
WEST HIGH SCHOOL – BASEMENT LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 05–03–17	REV: 2	A6–00



0 60
FEET

LEGEND

- CONCRETE BLOCK WALLS BELIEVED TO CONTAIN VERMICULITE INSULATION – HOMOGENEOUS MATERIAL #153
- CONCRETE BLOCK WALLS CONFIRMED TO CONTAIN VERMICULITE INSULATION – HOMOGENEOUS MATERIAL #153
- BUILDING ADDITION WITH MONTH AND YEAR OF COMPLETION

NOTES:
1. This drawing includes floor plan revisions through August 2012
2. Asbestos–containing vermiculite insulation is believed to be contained in the concrete block walls.
3. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

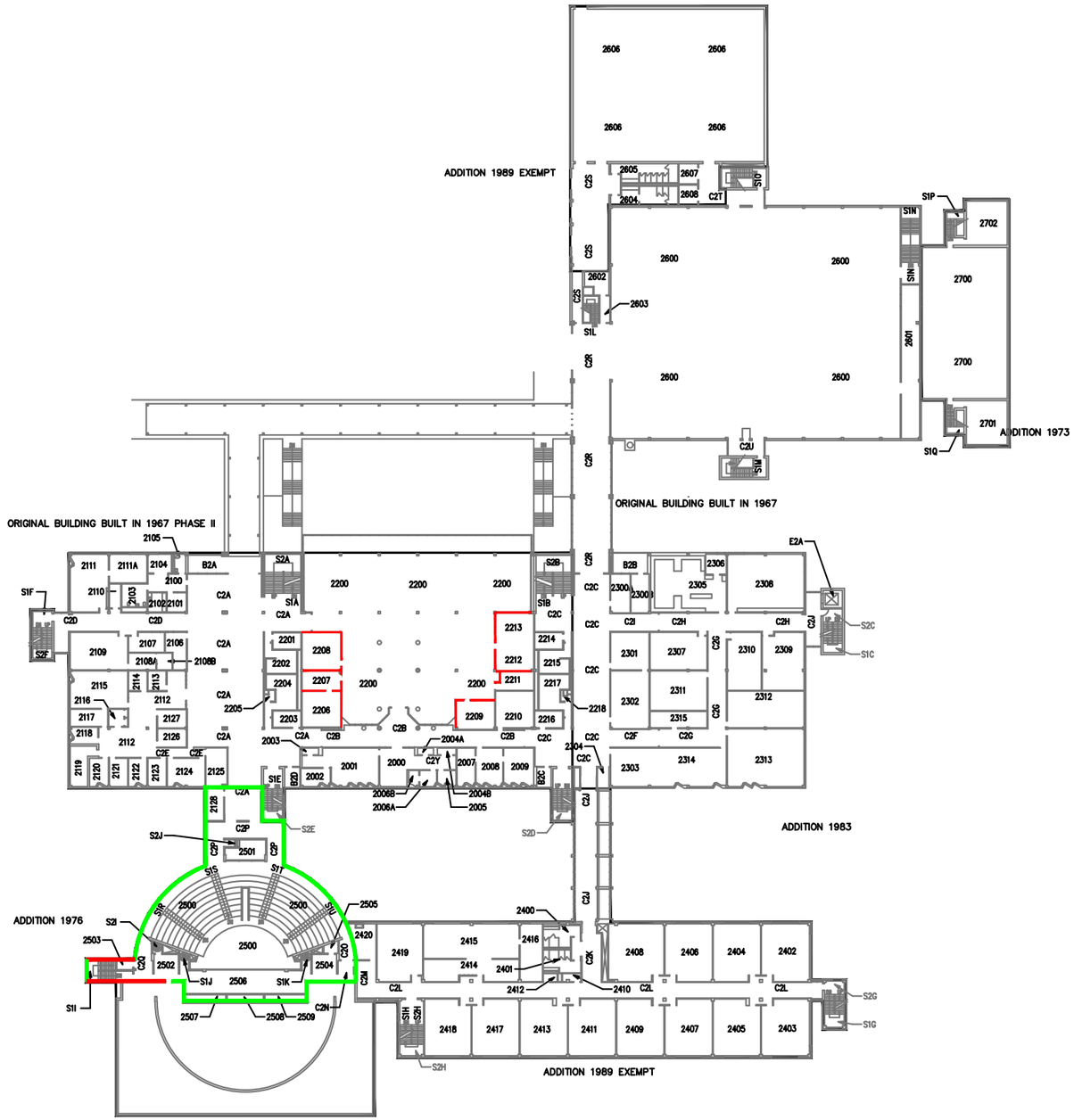
TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – VERMICULITE
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
05–03–17	2

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A6–01



LEGEND

- CONCRETE BLOCK WALLS BELIEVED TO CONTAIN VERMICULITE INSULATION – HOMOGENEOUS MATERIAL #153
- CONCRETE BLOCK WALLS CONFIRMED TO CONTAIN VERMICULITE INSULATION – HOMOGENEOUS MATERIAL #153
- BUILDING ADDITION WITH MONTH AND YEAR OF COMPLETION

0 70
FEET

NOTES:
1. This drawing includes floor plan revisions through August 2012
2. Asbestos–containing vermiculite insulation is believed to be contained in the concrete block walls.
3. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.

psi Information To Build On
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Tel (314) 432-8073 Fax (314) 432-5119

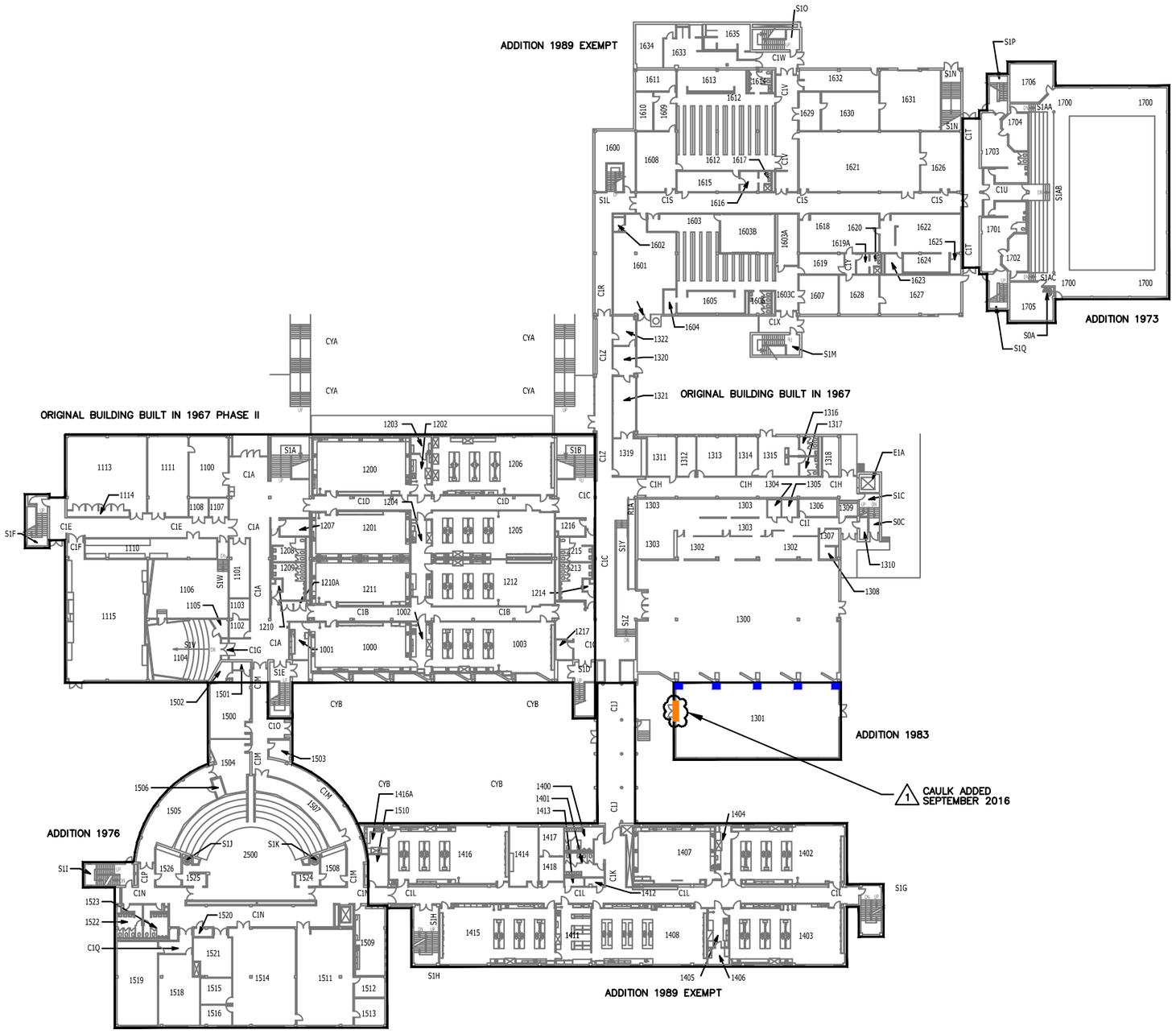
TITLE:
ASBESTOS – MISCELLANEOUS MATERIALS – VERMICULITE
WEST HIGH SCHOOL – SECOND LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
05–03–17	2

PROJECT NO: 00291604
PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

A6–02



0 60
FEET

LEGEND

BROWN CAULK
POSITIVE FOR ASBESTOS
HOMOGENEOUS MATERIAL #36 & #143

1 DOOR FRAME CAULK – GREY
POSITIVE FOR ASBESTOS
HOMOGENEOUS MATERIAL #183

BUILDING ADDITION YEAR OF COMPLETION

NOTES: 1. Locations of asbestos–containing material (ACM) are approximate.

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Tel (314) 432-8073 Fax (314) 432-5119

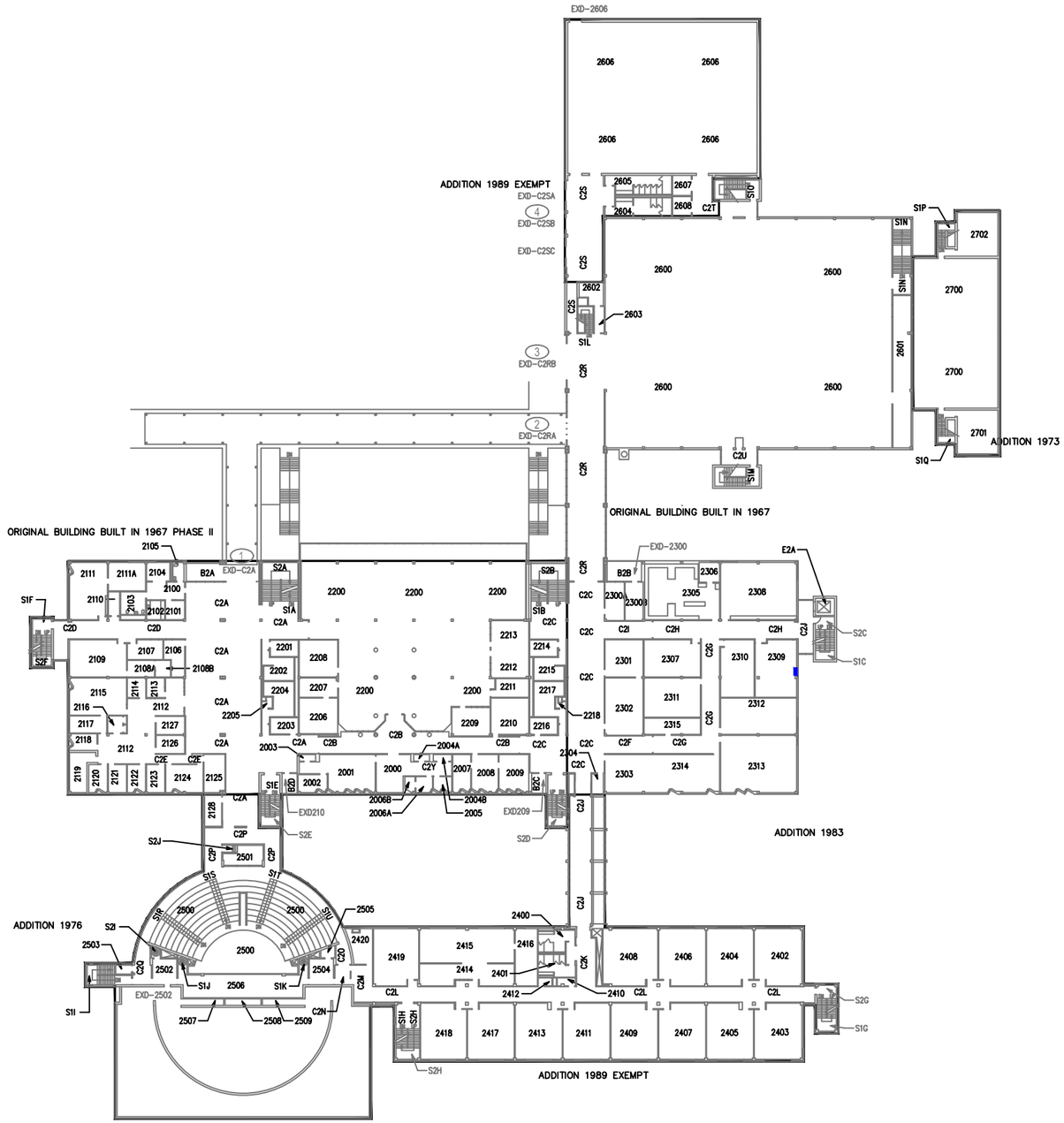
TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – CAULK
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
09–16–16	1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A8–01



LEGEND

BROWN CAULK
POSITIVE FOR ASBESTOS
HOMOGENEOUS MATERIAL #36 & #143

BUILDING ADDITION YEAR OF COMPLETION

0 70
FEET

NOTES: 1. Locations of asbestos-containing material (ACM) are approximate.

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

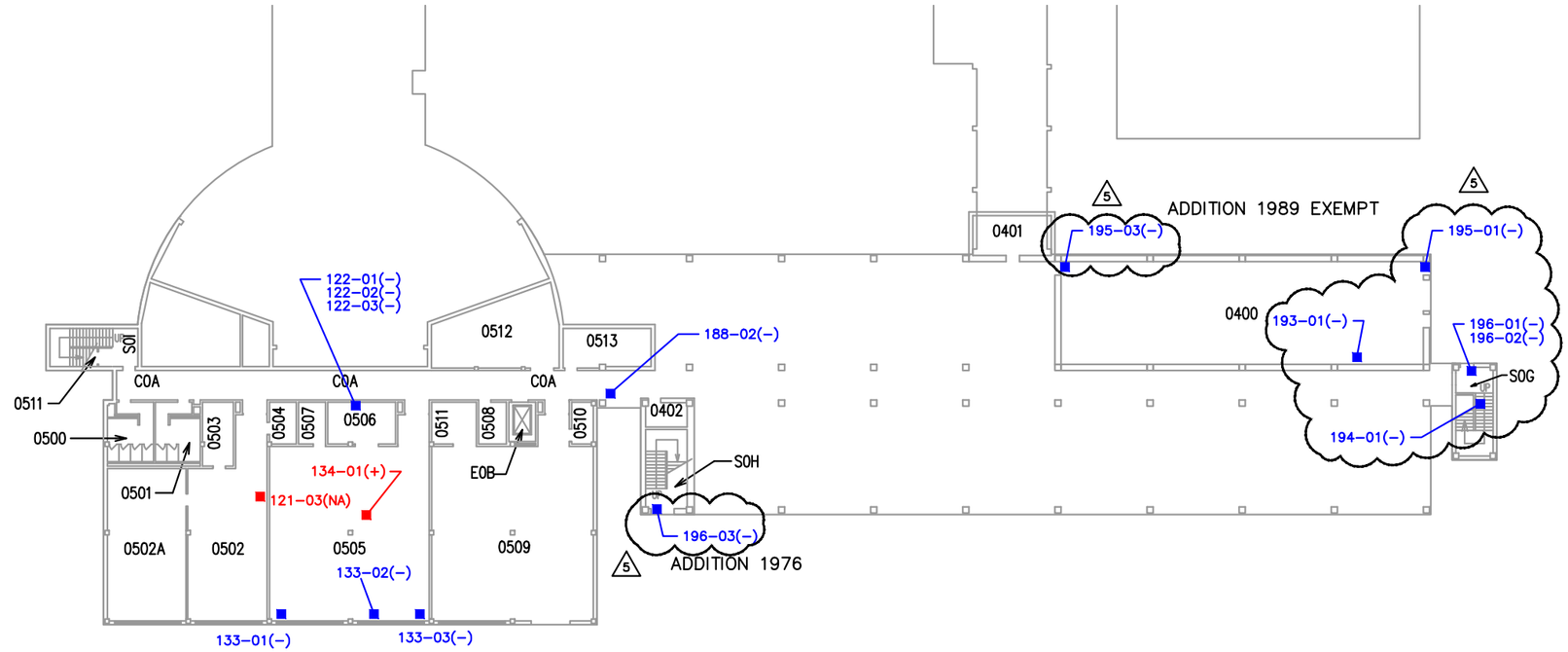
ASBESTOS – MISCELLANEOUS MATERIALS – CAULK
WEST HIGH SCHOOL – SECOND LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 10-17-14	REV: 5

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A8-02





0 40
FEET

LEGEND

- 01(+) — APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
- 01(−) — APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
- 01(NA) — APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)
- ✖ — APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE — NO VERMICULITE DISCOVERED
- ✖ — APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE — VERMICULITE IDENTIFIED

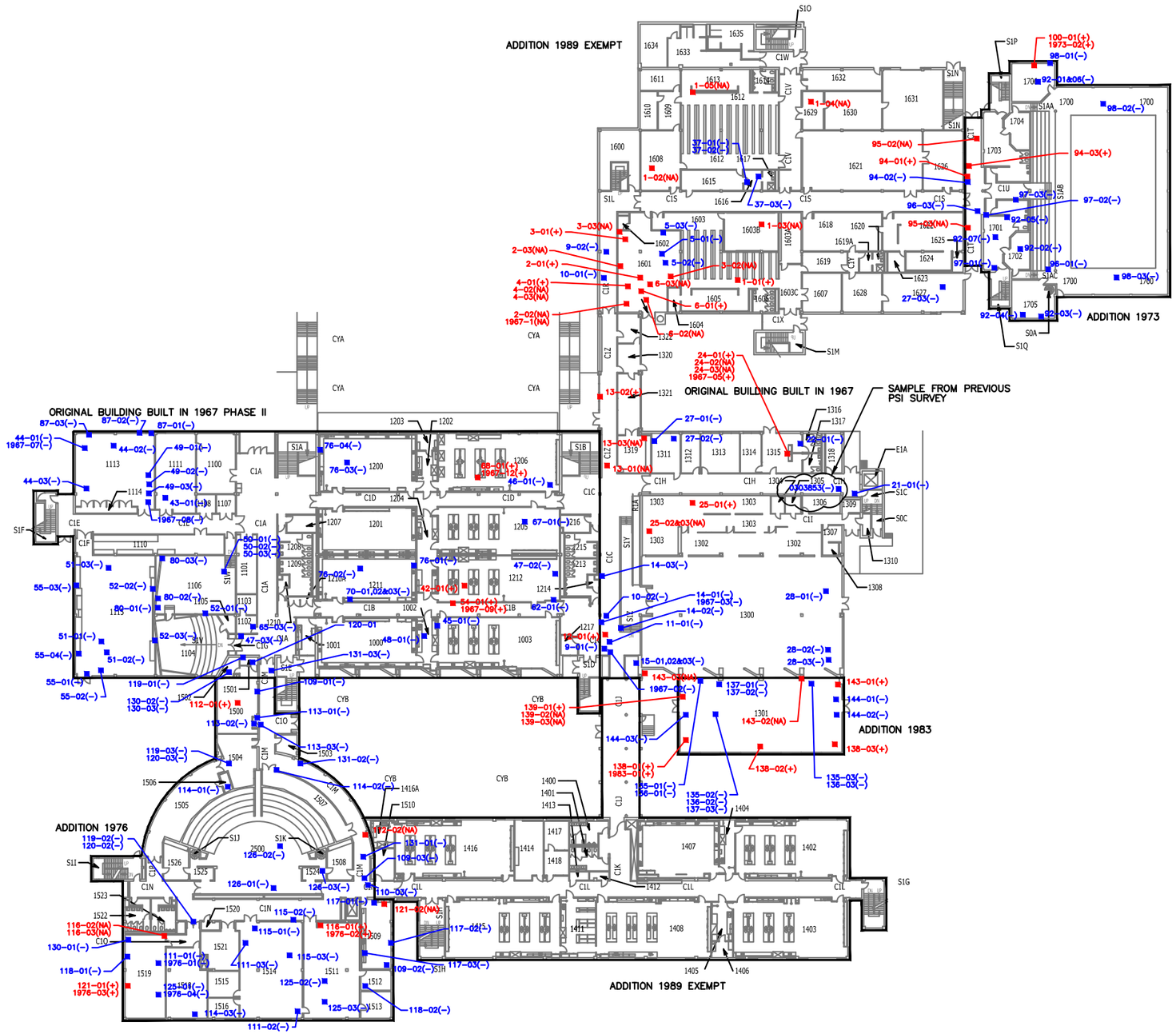
NOTES:
1. Hyphenated samples number / locations such as 8-03, have a prefix of "PWH" in the analysis report.
2. As part of Parkway's 2012 3-Year re-inspections, PSC randomly inspected exterior concrete block walls of the building erected prior to 1990 for the presence of vermiculite. Exterior concrete block walls behind gypsum board or other finished surfaces were not inspected for the presence of vermiculite. PSC did not inspect interior concrete block walls.

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
WEST HIGH SCHOOL – BASEMENT LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 04-12-17	REV: 5	B1-00



0 60
FEET

LEGEND

- ■ 01(+) APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
- ■ 01(–) APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
- ■ 01(NA) APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)

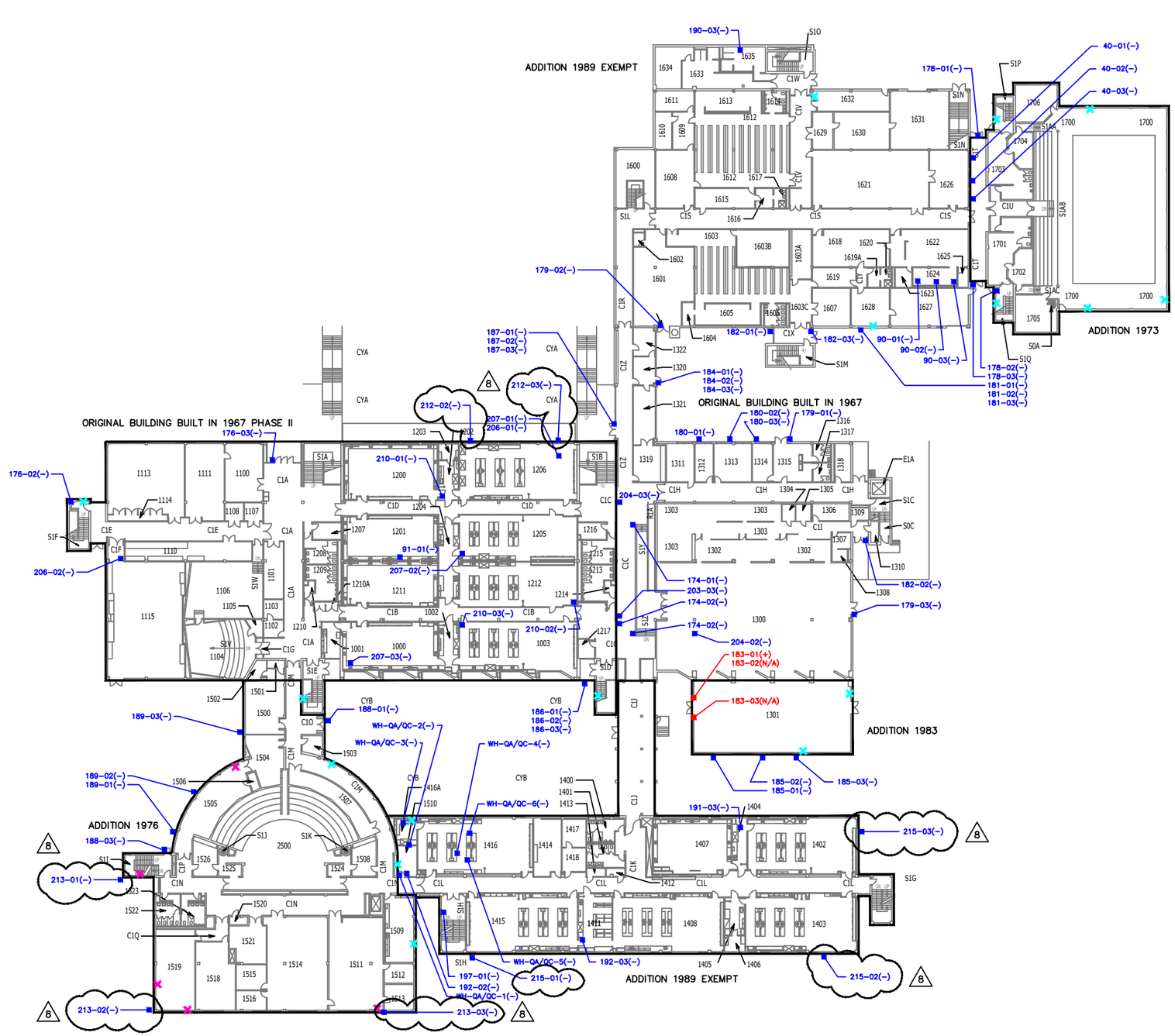
NOTES: 1. Hyphenated samples number / locations such as 8–03, have a prefix of "PWH" in the analysis report.

psi Information To Build On
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 10–17–14	REV: 1	B2–01



LEGEND

- ■ 01(+) — APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
- ■ 01(–) — APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
- ■ 01(NA) — APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)
- × — APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE – NO VERMICULITE DISCOVERED
- × — APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE – VERMICULITE IDENTIFIED

NOTES:

1. Sample number/location shown on this drawing are from the 2004 & 2007 re-inspection.
2. As part of Parkway's 2012 3-Year re-inspections, PSC randomly inspected exterior concrete block walls of the building erected prior to 1990 for the presence of vermiculite. Exterior concrete block walls behind gypsum board or other finished surfaces were not inspected for the presence of vermiculite. PSC did not inspect interior concrete block walls.

psi Information To Build On
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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

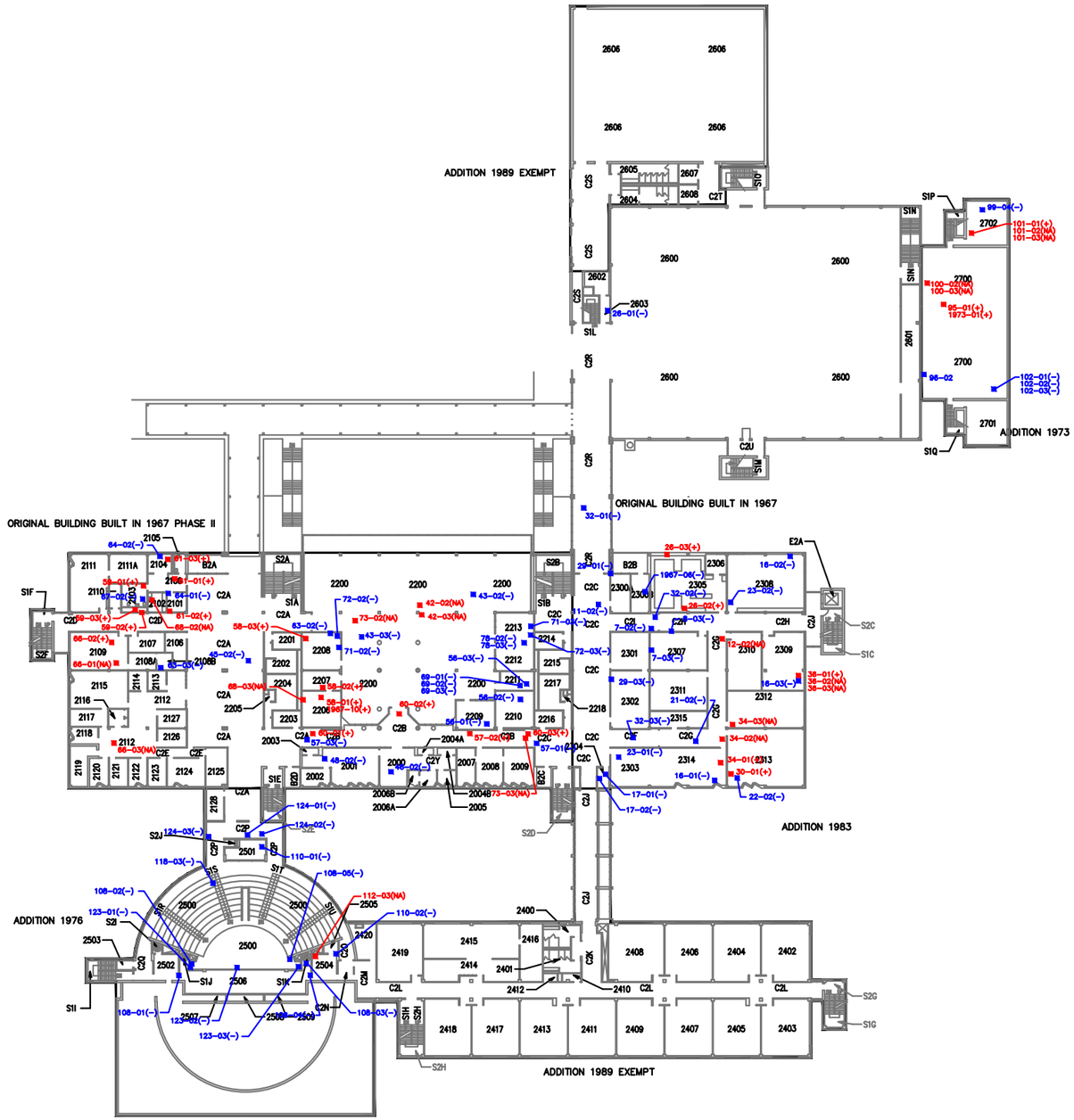
ASBESTOS – BULK SAMPLE LOCATIONS
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: MCG	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 04-30-20	REV: 8

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

B2.1-01



LEGEND

■ 01(+)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
■ 01(–)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
■ 01(NA)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)

0 70
FEET

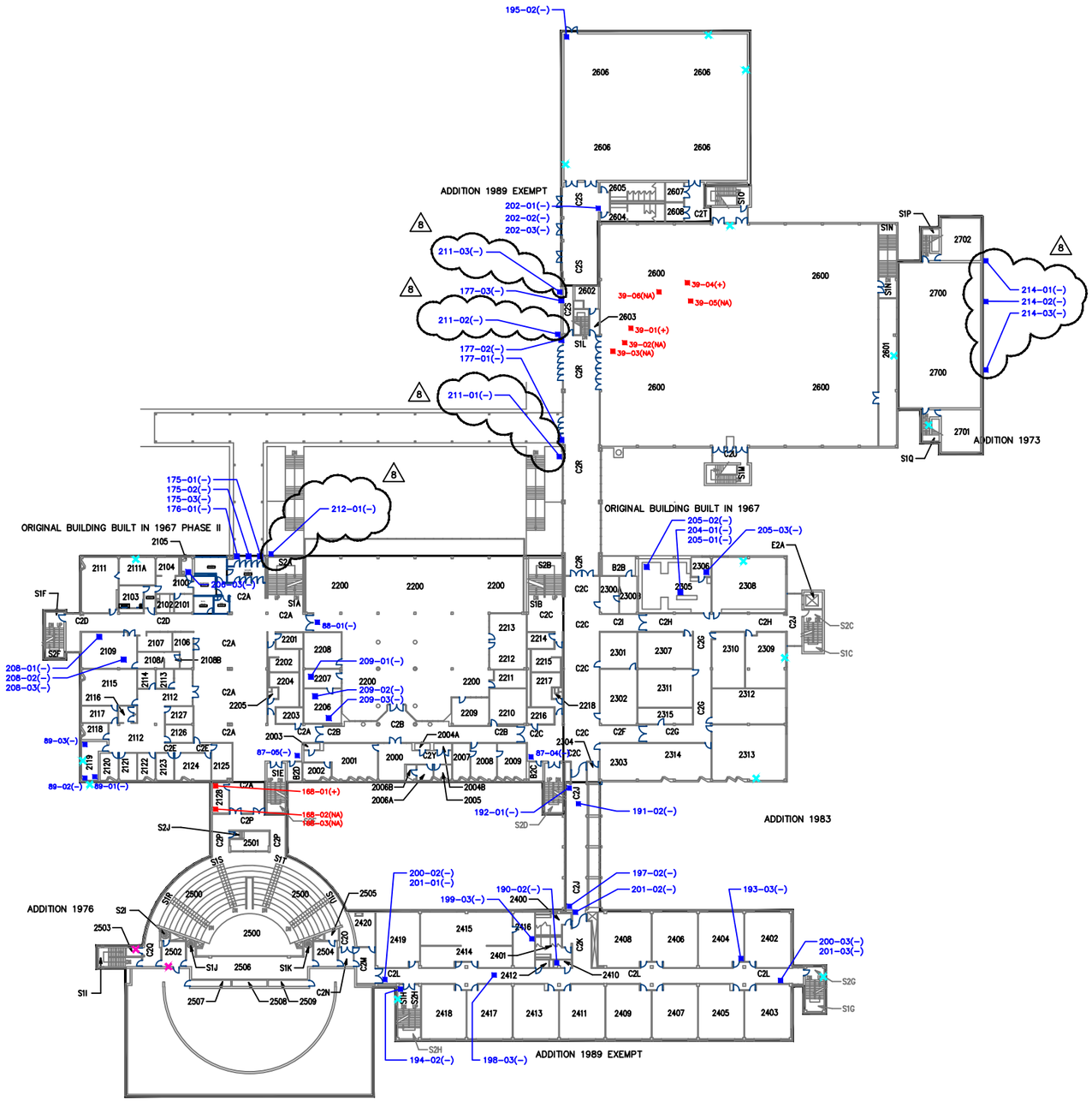
NOTES: 1. Hyphenated samples number / locations such as 8–03, have a prefix of "PWH" in the analysis report.

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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
WEST HIGH SCHOOL – SECOND LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 10–17–14	REV: 1	B3–02	



LEGEND

■ 01(+)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
■ 01(–)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
■ 01(NA)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)
✕	APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE – NO VERMICULITE DISCOVERED
✕	APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE – VERMICULITE IDENTIFIED

0 70
FEET

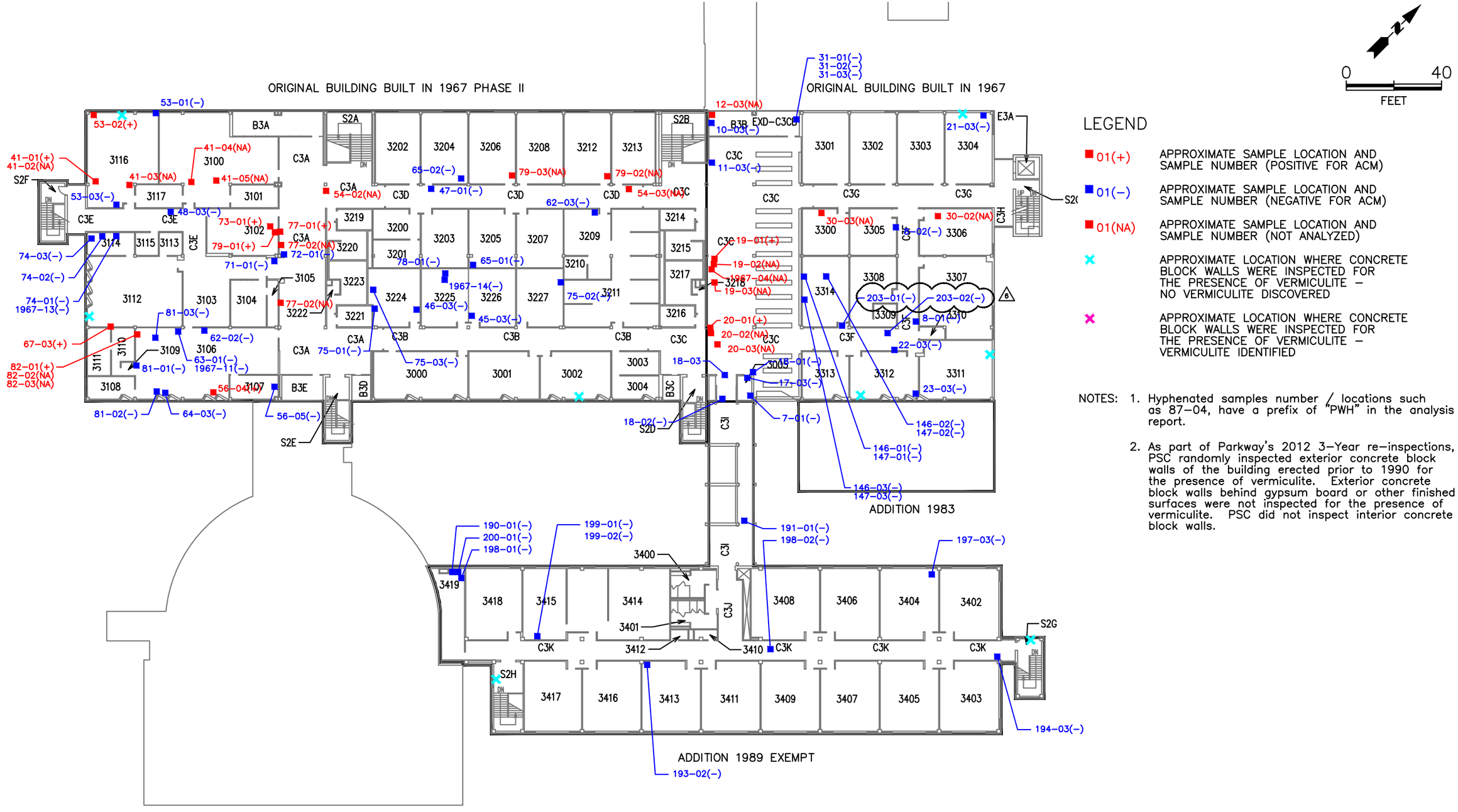
NOTES:
1. Sample number/location shown on this drawing are from the 2004 and subsequent re-inspection.
2. Hyphenated samples number / locations such as 87-04, have a prefix of "PWH" in the analysis report.
3. As part of Parkway's 2012 3-Year re-inspections, PSC randomly inspected exterior concrete block walls of the building erected prior to 1990 for the presence of vermiculite. Exterior concrete block walls behind gypsum board or other finished surfaces were not inspected for the presence of vermiculite. PSC did not inspect interior concrete block walls.

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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
WEST HIGH SCHOOL – SECOND LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: MCG	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 04-30-20	REV: 8	B3.1-02	



psi Information To Build On
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Tel (314) 432-8073 Fax (314) 432-5119

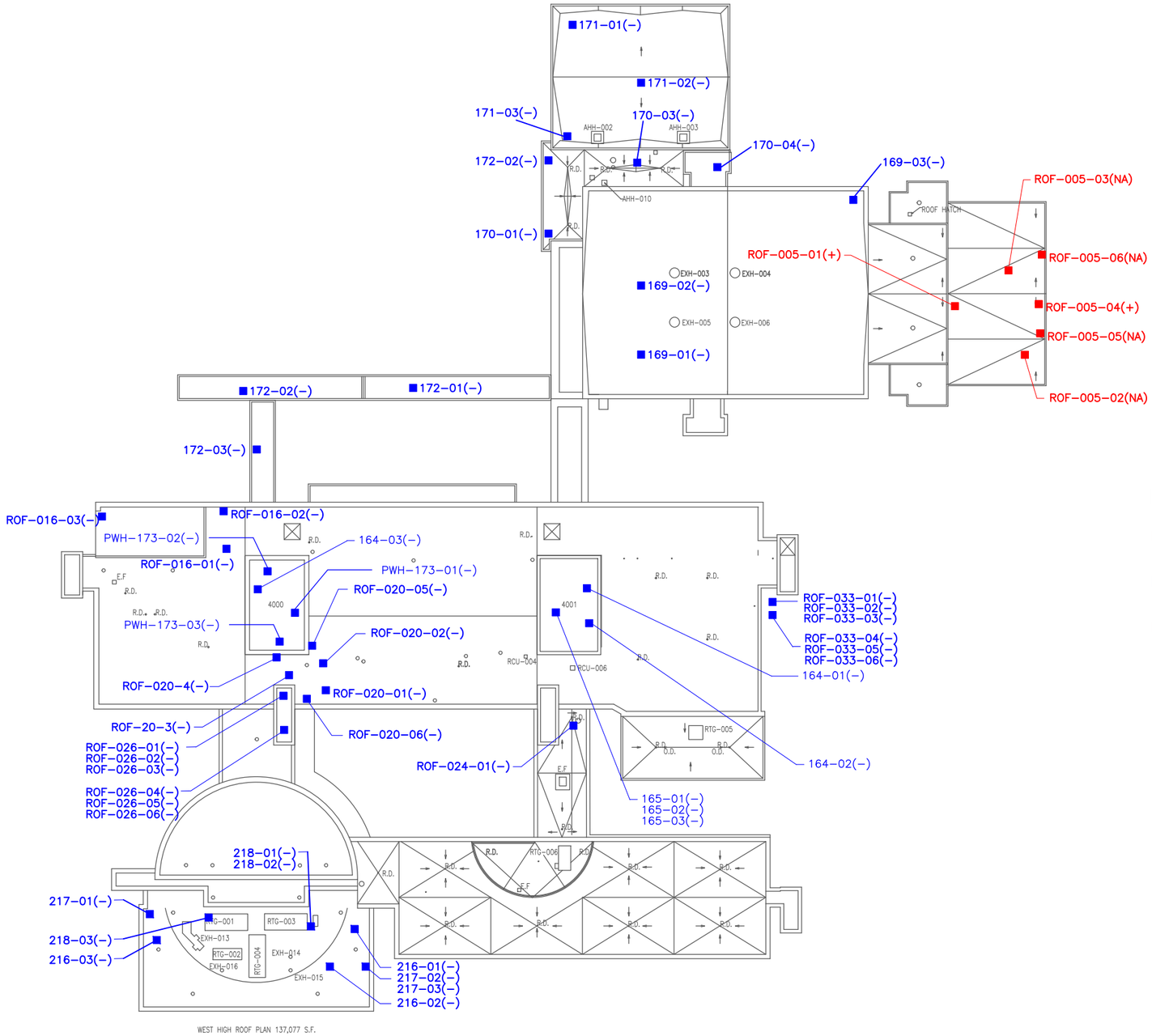
TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
WEST HIGH SCHOOL – THIRD LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 05–03–17	REV: 6

PROJECT NO: 00291604
PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

B4–03



WEST HIGH ROOF PLAN 137,077 S.F.

0 40
FEET

LEGEND

■ 01(+)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ASBESTOS)
■ 01(-)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ASBESTOS)
■ 01(NA)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)

NOTES: 1. Hyphenated sample numbers / locations such as 8-03, have a prefix of "PWH" in the analytical report.

intertek psi Information To Build On
Engineering • Consulting • Testing
11826 Borman Dr. Maryland Heights, MO 63146
Tel (314) 432-8073 Fax (314) 432-5119

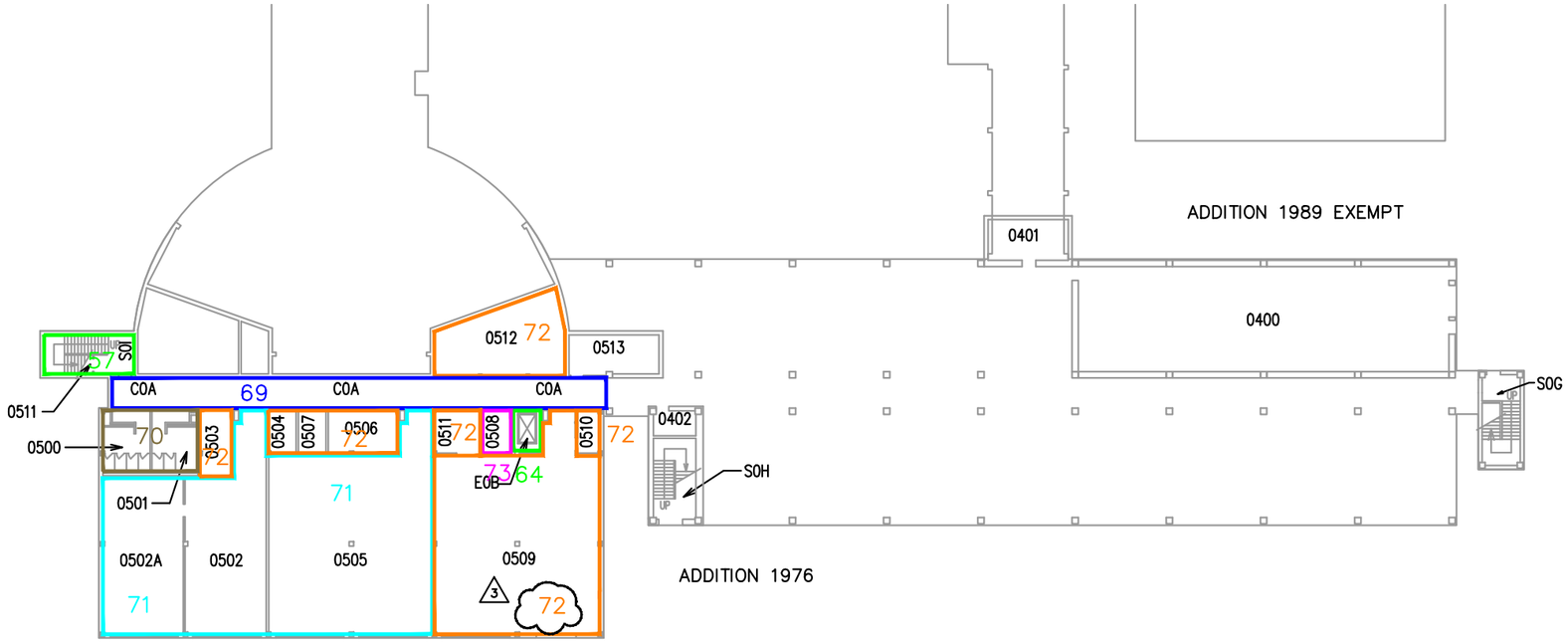
TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
WEST HIGH SCHOOL – ROOF LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 10-13-21	REV: 4

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

B5-ROOF





0 40
FEET

LEGEND

57	STAIRWELL
64	ELEVATOR
69	HALLWAYS
70	RESTROOMS
71	INDUSTRIAL ARTS SHOPS
72	SHOP STORAGE CLOSETS
73	ELEVATOR HYDRAULIC ROOM
122	POOL MECHANICAL ROOM

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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

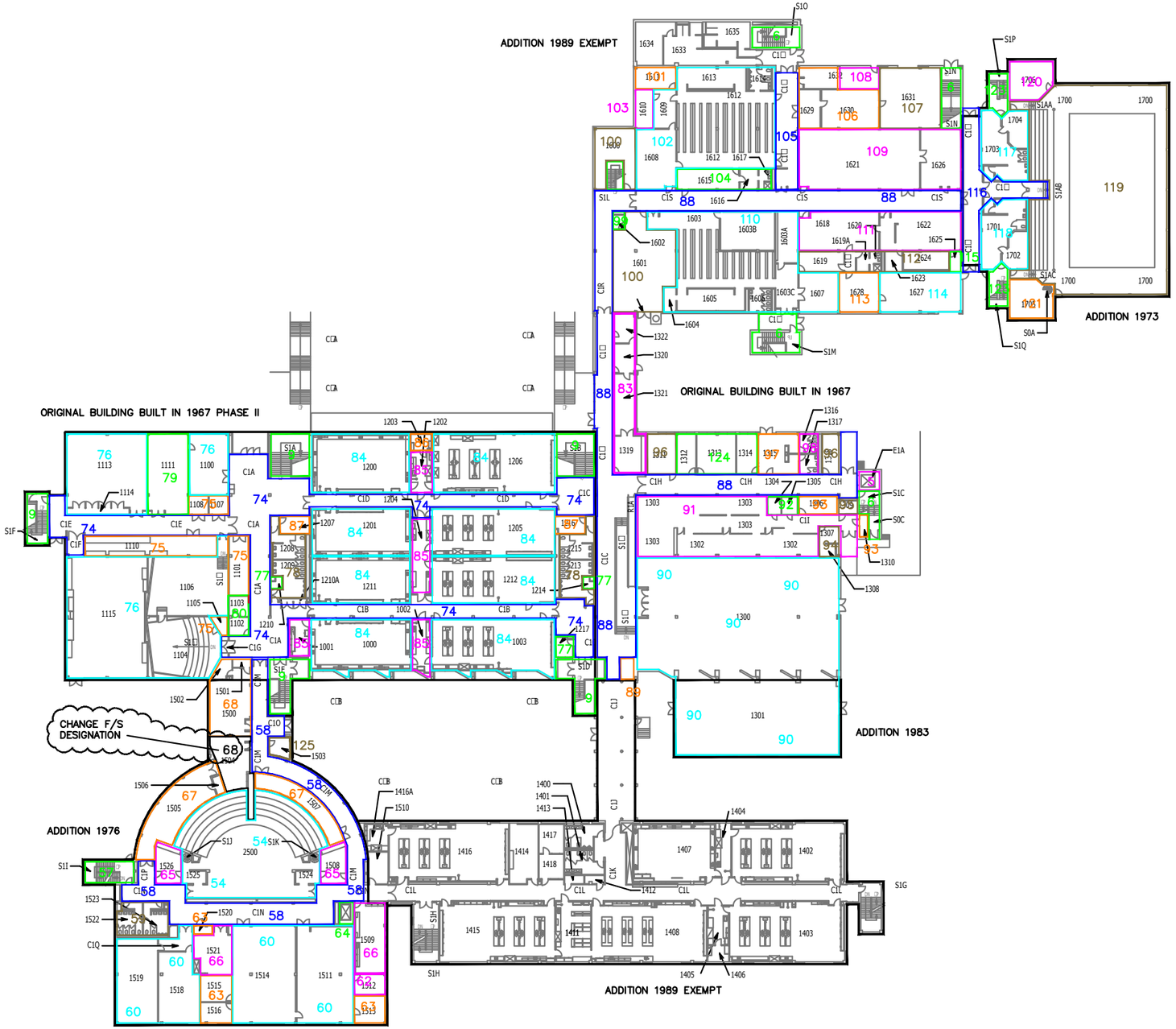
ASBESTOS – FUNCTIONAL SPACES
WEST HIGH SCHOOL – BASEMENT LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 05–03–17	REV: 3

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

F1–00



0 60
FEET

LEGEND

5	ELEVATOR	97	BREAK ROOM
6	STAIRWELLS	98	RESTROOMS
9	STAIRWELLS	99	CUSTODIAL CLOSET
54	THEATER	100	MECHANICAL ROOM
57	STAIRWELLS	101	ELECTRICAL ROOM
58	HALLWAYS	102	MEN'S LOCKER / SHOWER ROOMS
59	RESTROOMS	103	LAUNDRY ROOM
60	CLASSROOMS	104	SPORTS MEDICINE
62	OFFICES	105	HALLWAY
63	STORAGE CLOSET	106	STORAGE CLOSET
64	ELEVATOR	107	MECHANICAL ROOM / GARAGE
65	DRESSING ROOMS	108	OFFICES
66	THEATER CAST LOUNGE	109	WEIGHT ROOM
67	STAGE PROP STORAGE	110	WOMEN'S LOCKER / SHOWER ROOMS
68	THEATER STORAGE	111	MEN'S ATHLETICS OFFICE
69	HALLWAYS	112	COACHING STAFF LOCKER / SHOWER ROOMS
70	RESTROOMS	113	ATHLETIC STORAGE
71	INDUSTRIAL ARTS SHOPS	114	MECHANICAL ROOM / GARAGE
72	SHOP STORAGE AREA	115	STORAGE CLOSET
73	ELEVATOR HYDRAULIC ROOM	116	HALLWAYS
74	HALLWAYS	117	WOMEN'S LOCKER / SHOWER ROOM
75	MUSIC STORAGE CLOSET	118	MEN'S LOCKER / SHOWER ROOMS
76	MUSIC CLASSROOMS	119	POOL AREA
77	CUSTODIAL CLOSET	120	POOL OFFICE
78	RESTROOMS	121	POOL STORAGE
79	TEACHER PREPARATION AREA	122	POOL MECHANICAL ROOM
80	OFFICES	123	STAIRWELL
81	RESERVED	124	OFFICE
82	RESERVED	125	CUSTODIAL CLOSET
83	OFFICES		
84	SCIENCE CLASSROOMS		
85	SCIENCE HALL / STORAGE		
86	SCIENCE STORAGE CLOSET		
87	MECHANICAL ROOM / AIR SHAFT		
88	HALLWAYS		
89	STORAGE CLOSET		
90	CAFETERIA		
91	FOOD PREPARATION / SERVING		
92	REFRIGERATION UNITS		
93	CAFETERIA STORAGE		
94	LOCKER / RESTROOMS		
95	ELEVATOR HYDRAULIC ROOM		
96	MECHANICAL ROOMS		

psi Information To Build On
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

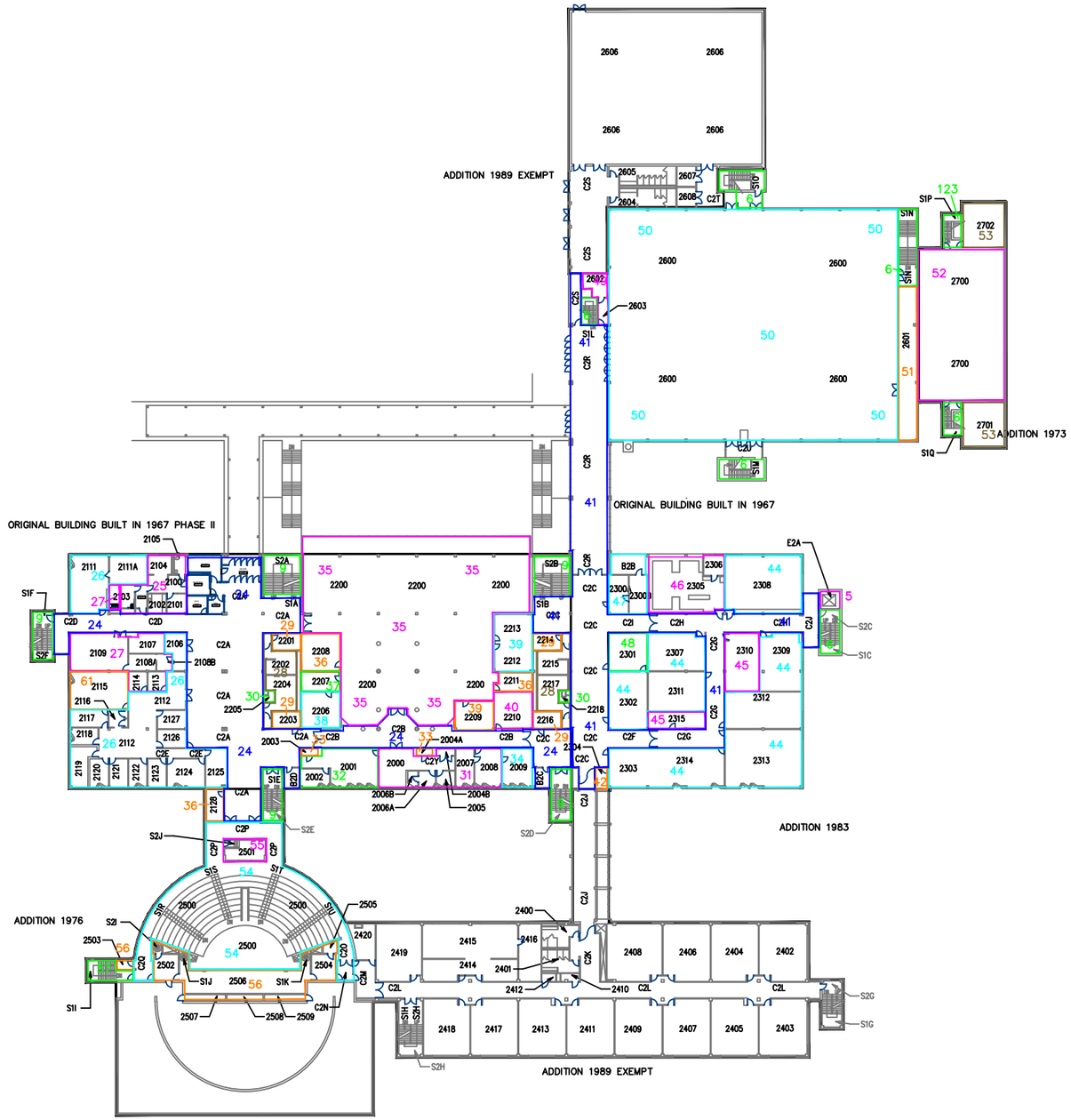
TITLE:
ASBESTOS – FUNCTIONAL SPACES
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

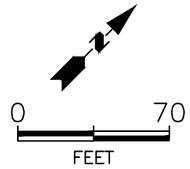
PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 05-04-17	REV: 4

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

F1-01





LEGEND

5	ELEVATOR
6	STAIRWELLS
9	STAIRWELLS
24	HALLWAYS
25	NURSES OFFICES
26	OFFICES
27	CLASSROOMS
28	RESTROOMS
29	MECHANICAL ROOMS / AIR SHAFT
30	CUSTODIAL CLOSETS
31	OFFICES
32	COPY / PRINT ROOM
33	RESTROOMS
34	CONFERENCE ROOM
35	LIBRARY
36	STORAGE ROOMS
37	OFFICES
38	TEACHERS BREAKROOM
39	LIBRARY RESEARCH ROOM
40	TELECOMMUNICATIONS ROOM
41	HALLWAYS
42	STORAGE CLOSETS
43	RESERVED
44	CLASSROOMS
45	TEACHERS PREPARATION AREA
46	CLASSROOM – HOME ECONOMICS
47	OFFICE
48	SCHOOL STORE
49	CONCESSION STAND
50	MAIN GYMNASIUM
51	GYMNASIUM STORAGE
52	WRESTLING GYMNASIUM
53	MECHANICAL ROOMS
54	THEATER
55	THEATER CONTROL BOOTH
56	THEATER STORAGE
57	STAIRWELL
61	STUDENT RESEARCH AREA
123	STAIRWELL

4

psi Information To Build On
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

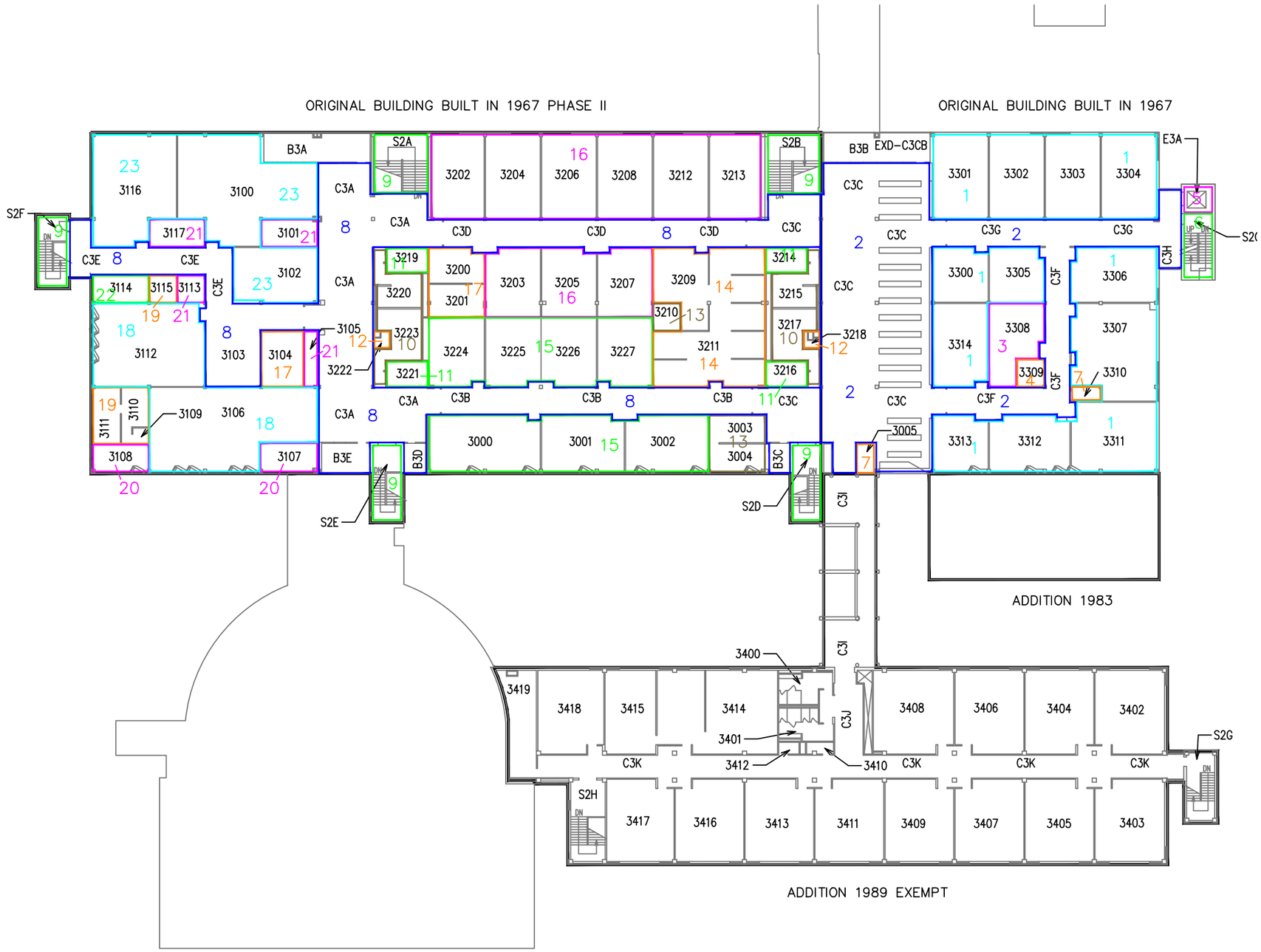
ASBESTOS – FUNCTIONAL SPACES
WEST HIGH SCHOOL – SECOND LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: MCG	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 04-30-20	REV: 4

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

F1-02



psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

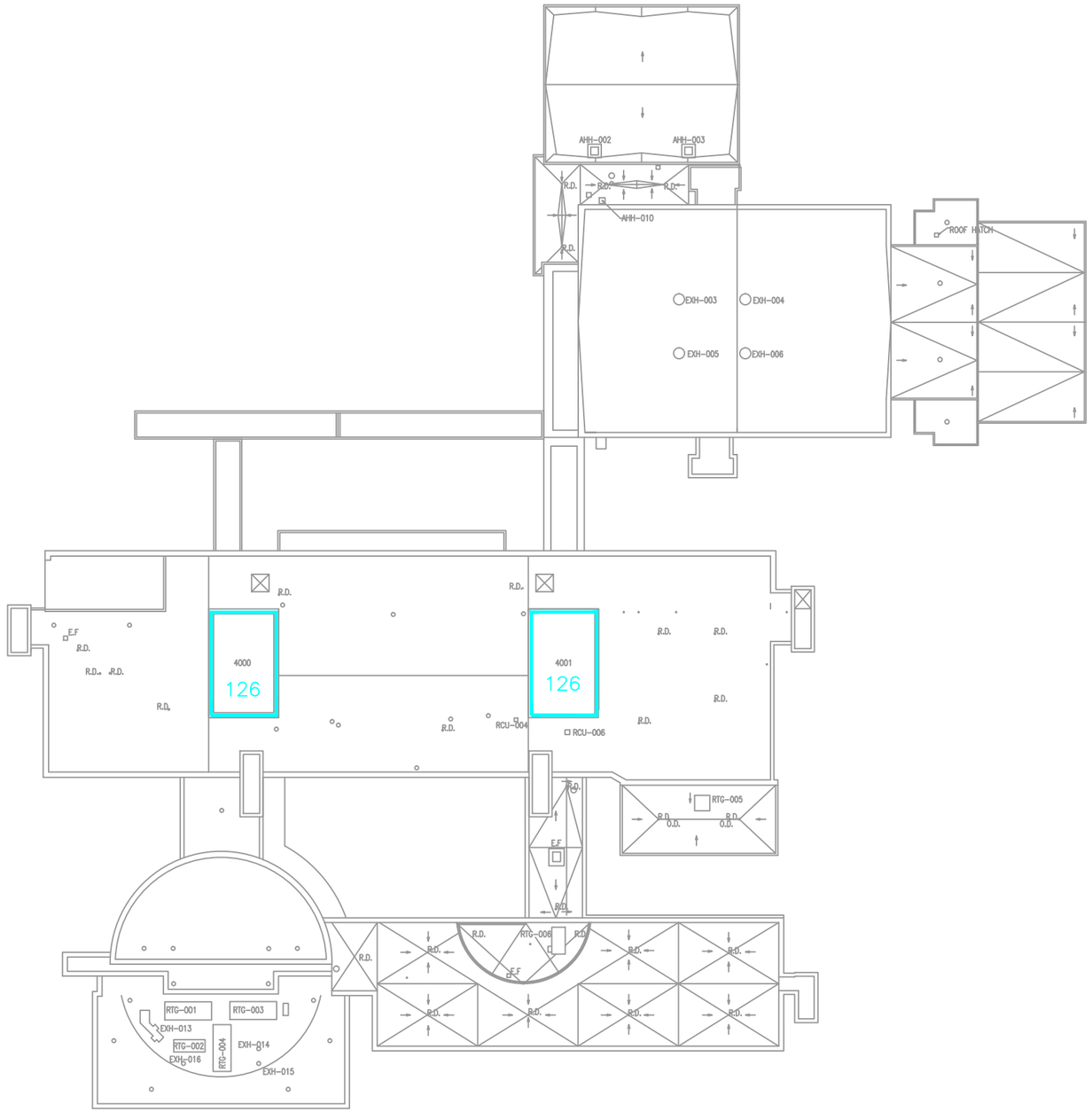
ASBESTOS – FUNCTIONAL SPACES
WEST HIGH SCHOOL – THIRD LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
10-17-14	3

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

F1-03



WEST HIGH ROOF PLAN 137,077 S.F.

9-13-02 (28)

0 40
FEET

LEGEND

126 MECHANICAL ROOM

psi Information To Build On
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

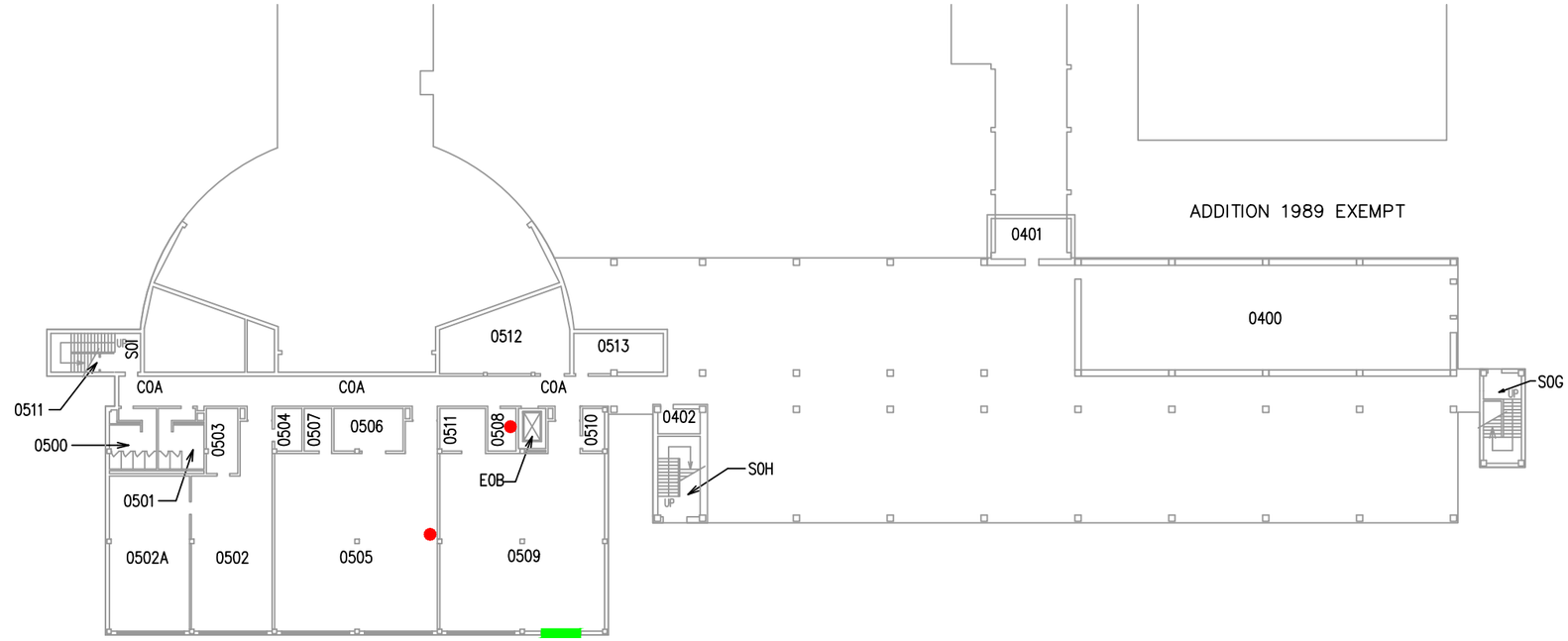
TITLE:
ASBESTOS – FUNCTIONAL SPACES
WEST HIGH SCHOOL – ROOF LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

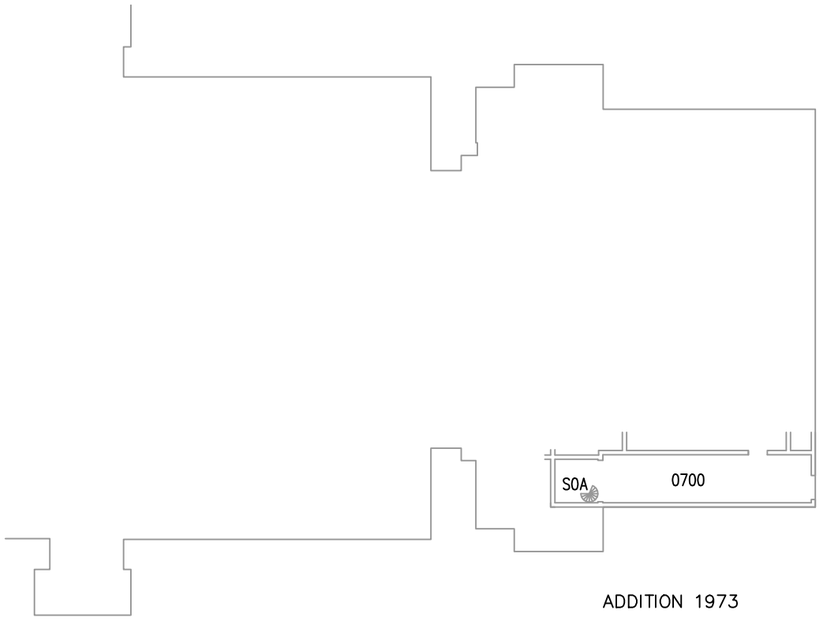
PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 10-17-14	REV: 1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

F1-ROOF





ADDITION 1973

0 40
FEET

LEGEND

- CLAYTON ROAD IS ON "A" SIDE
- BUILDING ADDITION YEAR OF COMPLETION
- AREA NOT INCLUDED IN LBP INSPECTION POST 1978
- WALL
- DOOR / DOOR FRAME
- DRAIN PIPE
- HANDRAILS
- PARTITION
- LINTEL
- WINDOW PANEL
- CATWALK SUPPORT STEEL (BLACK)

NOTE: This drawing must be used in conjunction with the LBP Testing Data Sheet. Do not disturb LBP materials without reviewing the LBP Inspection Report.

psi Information To Build On
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

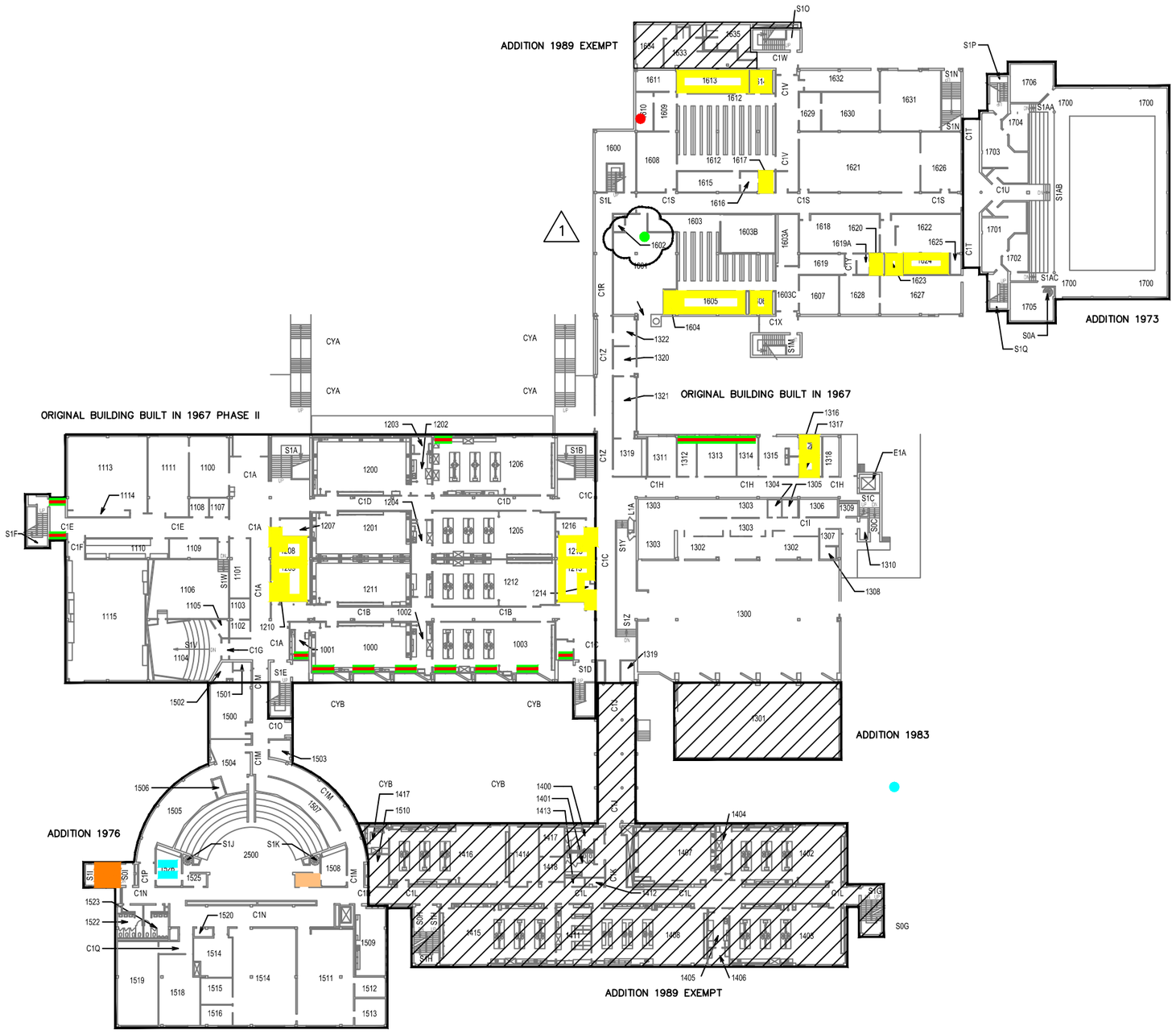
TITLE:
APPROXIMATE LOCATION OF LEAD BASED PAINT (LBP)
WEST HIGH SCHOOL – BASEMENT LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
10–17–14	1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

L1–00



0 60
FEET

LEGEND

- CLAYTON ROAD IS ON "A" SIDE
- BUILDING ADDITION YEAR OF COMPLETION
- AREA NOT INCLUDED IN LBP INSPECTION POST 1978
- WALL
- DOOR / DOOR FRAME
- DRAIN PIPE
- UTILITY PIPELINE
- PUMP HOUSING
- HANDRAILS
- PARTITION
- LINTEL
- WINDOW PANEL
- CATWALK SUPPORT STEEL (BLACK)
- FLOOR

NOTE: This drawing must be used in conjunction with the LBP Testing Data Sheet. Do not disturb LBP materials without reviewing the LBP Inspection Report.

psi Information To Build On
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

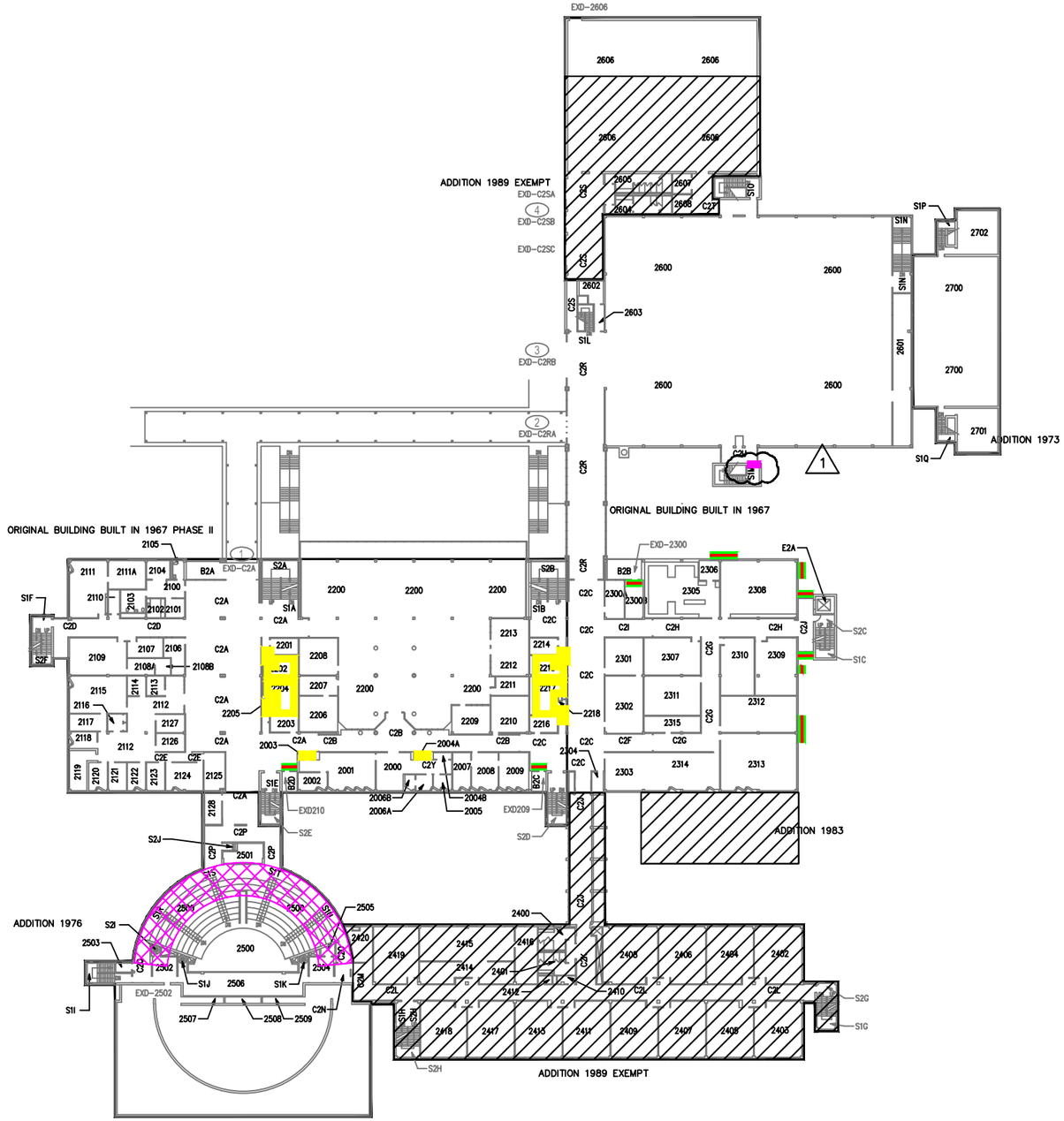
TITLE:
APPROXIMATE LOCATION OF LEAD BASED PAINT (LBP)
WEST HIGH SCHOOL – FIRST LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 10–17–14	REV: 1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

L1–01



0 70
FEET

LEGEND

- CLAYTON ROAD IS ON "A" SIDE
- BUILDING ADDITION YEAR OF COMPLETION
- AREA NOT INCLUDED IN LBP INSPECTION POST 1978
- WALL
- DOOR / DOOR FRAME
- DRAIN PIPE
- HANDRAILS
- PARTITION
- LINTEL
- WINDOW PANEL
- CATWALK SUPPORT STEEL (BLACK)
- FLOOR

NOTE: This drawing must be used in conjunction with the LBP Testing Data Sheet. Do not disturb LBP materials without reviewing the LBP Inspection Report.

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

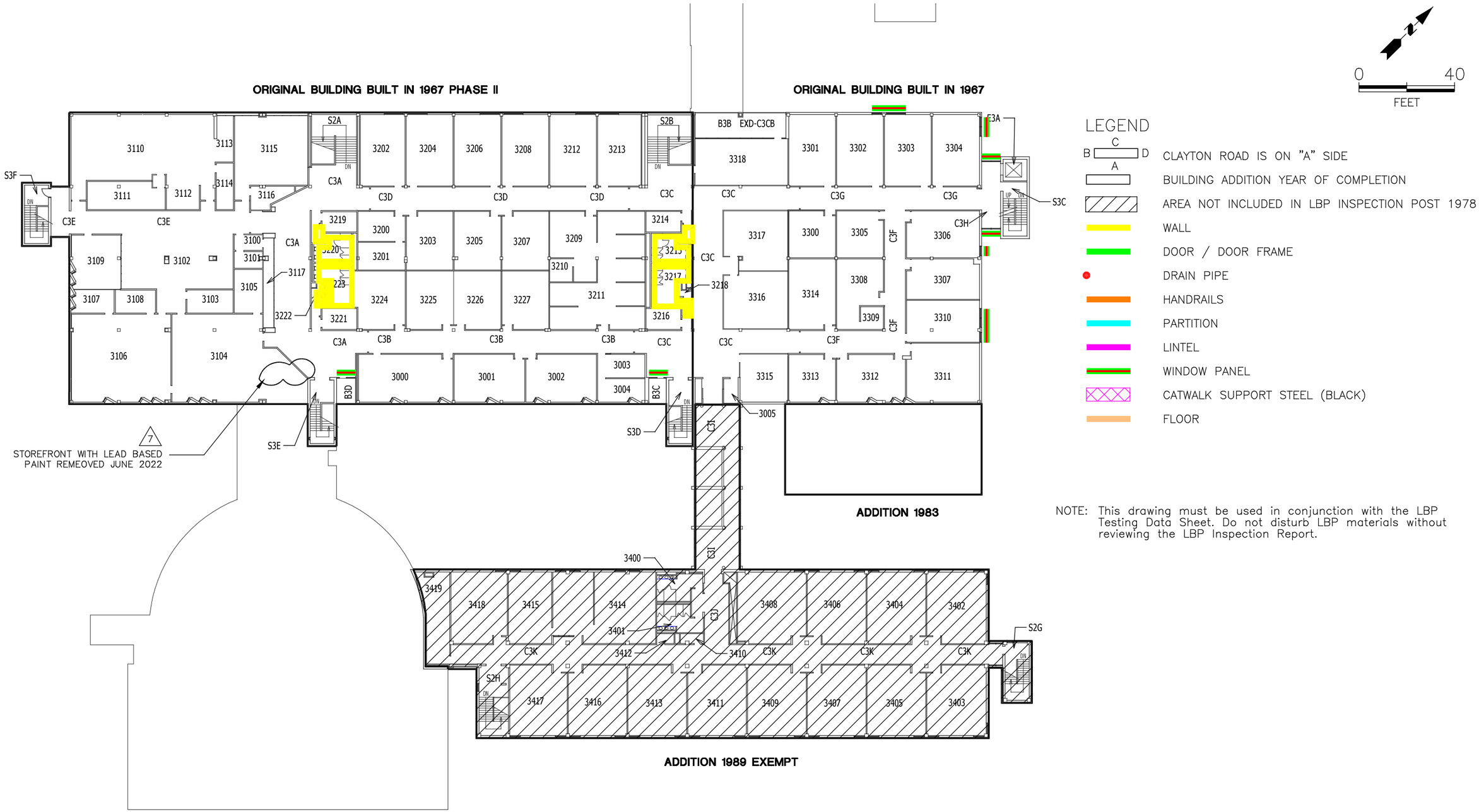
APPROXIMATE LOCATION OF LEAD BASED PAINT (LBP)
WEST HIGH SCHOOL – SECOND LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 10-17-14	REV: 1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

L1-02



NOTE: This drawing must be used in conjunction with the LBP Testing Data Sheet. Do not disturb LBP materials without reviewing the LBP Inspection Report.

intertek psi Information To Build On
Engineering • Consulting Testing
11826 Borman Dr. Maryland Heights, MO 63146
Tel (314) 432-8073 Fax (314) 432-5119

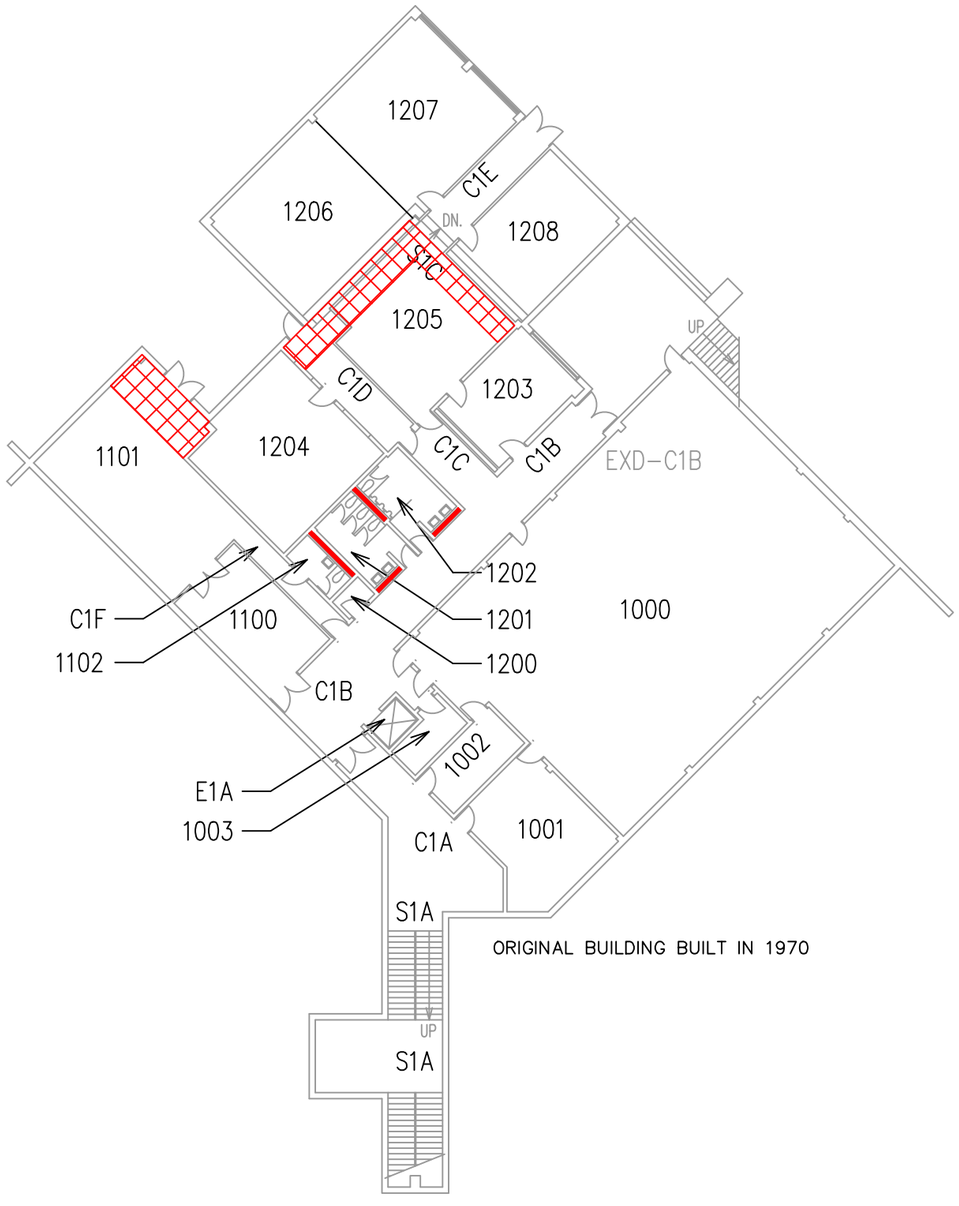
TITLE:
APPROXIMATE LOCATION OF LEAD BASED PAINT (LBP)
WEST HIGH SCHOOL – THIRD LEVEL
14653 CLAYTON ROAD – BALLWIN, MO. 63011

PARKWAY SCHOOLS

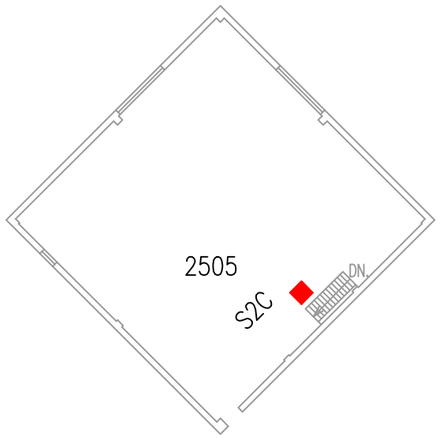
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TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
09–21–22	7

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

L1–03

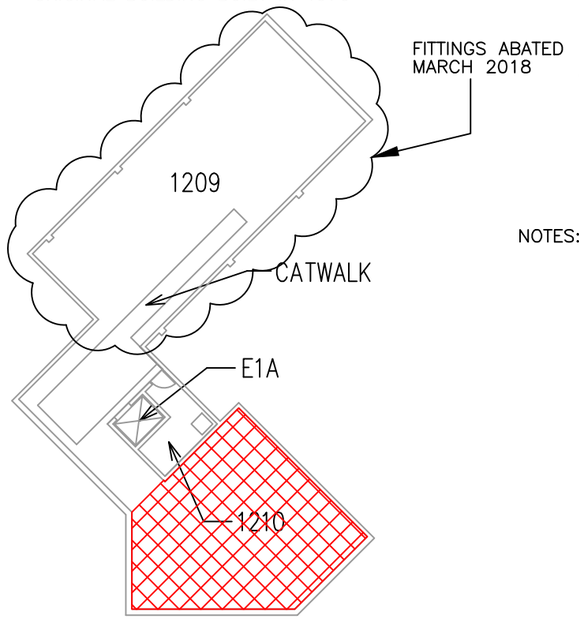


ORIGINAL BUILDING BUILT IN 1970



PENTHOUSE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970



MEZZANINE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970

LEGEND

- TSI BOILER EXHAUST DUCT INSULATION (AT ROOF PENETRATION)
- CEMENTITOUS (MUDDED) PIPE FITTING INSULATION EXPOSED OR CONCEALED ABOVE CEILING POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #6, #7, #8, #9 AND #14
- CEMENTITIOUS (MUDDED) PIPE FITTING INSULATION POSITIVE FOR ASBESTOS PRESUMED TO BE IN CHASE HOMOGENEOUS MATERIALS #6 AND #9
- BUILDING ADDITION YEAR OF COMPLETION

NOTES:

1. Locations of asbestos–containing material (ACM) are approximate.
2. PSI was unable to inspect above plaster or gypsum board ceilings. These areas may contain cementitious pipe fitting insulation Homogeneous Material #6, #7, #8, #9 AND #14.

N

0 25

FEET

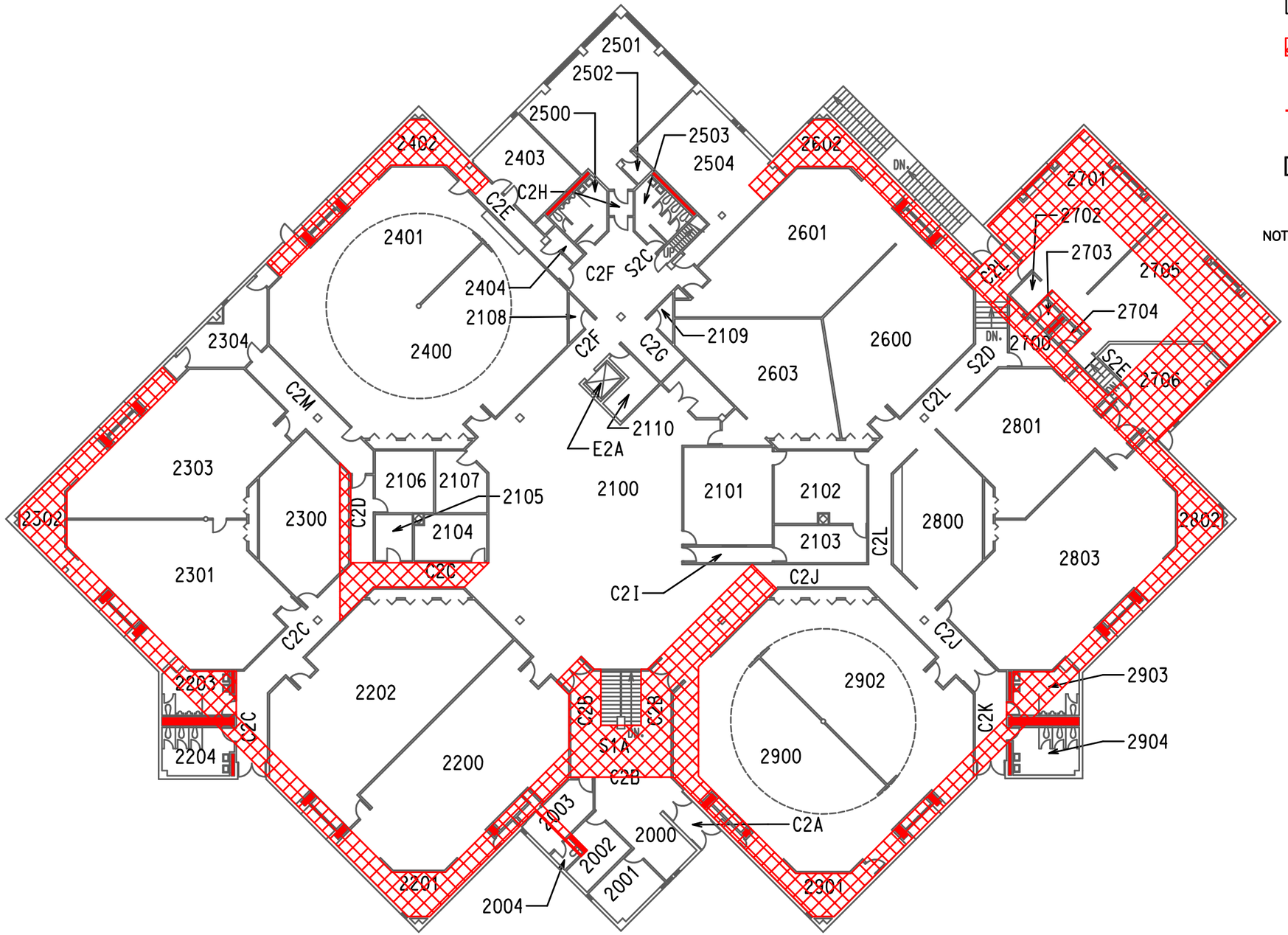
psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

ASBESTOS – THERMAL SYSTEM INSULATION
EARLY CHILDHOOD CENTER – FIRST LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 04–12–18	REV: 8	A2–01



LEGEND

- CEMENTITOUS (MUDDED) PIPE FITTING INSULATION EXPOSED OR CONCEALED ABOVE CEILING POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #6, #7, #8, #9 AND #14
- CEMENTITIOUS (MUDDED) PIPE FITTING INSULATION POSITIVE FOR ASBESTOS PRESUMED TO BE IN CHASE HOMOGENEOUS MATERIALS #6 AND #9
- BUILDING ADDITION YEAR OF COMPLETION

NOTES:
1. Locations of asbestos–containing material (ACM) are approximate.
2. PSI was unable to inspect above plaster or gypsum board ceilings. These areas may contain cementitious pipe fitting insulation Homogeneous Material #6, #7, #8, #9 AND #14.

N

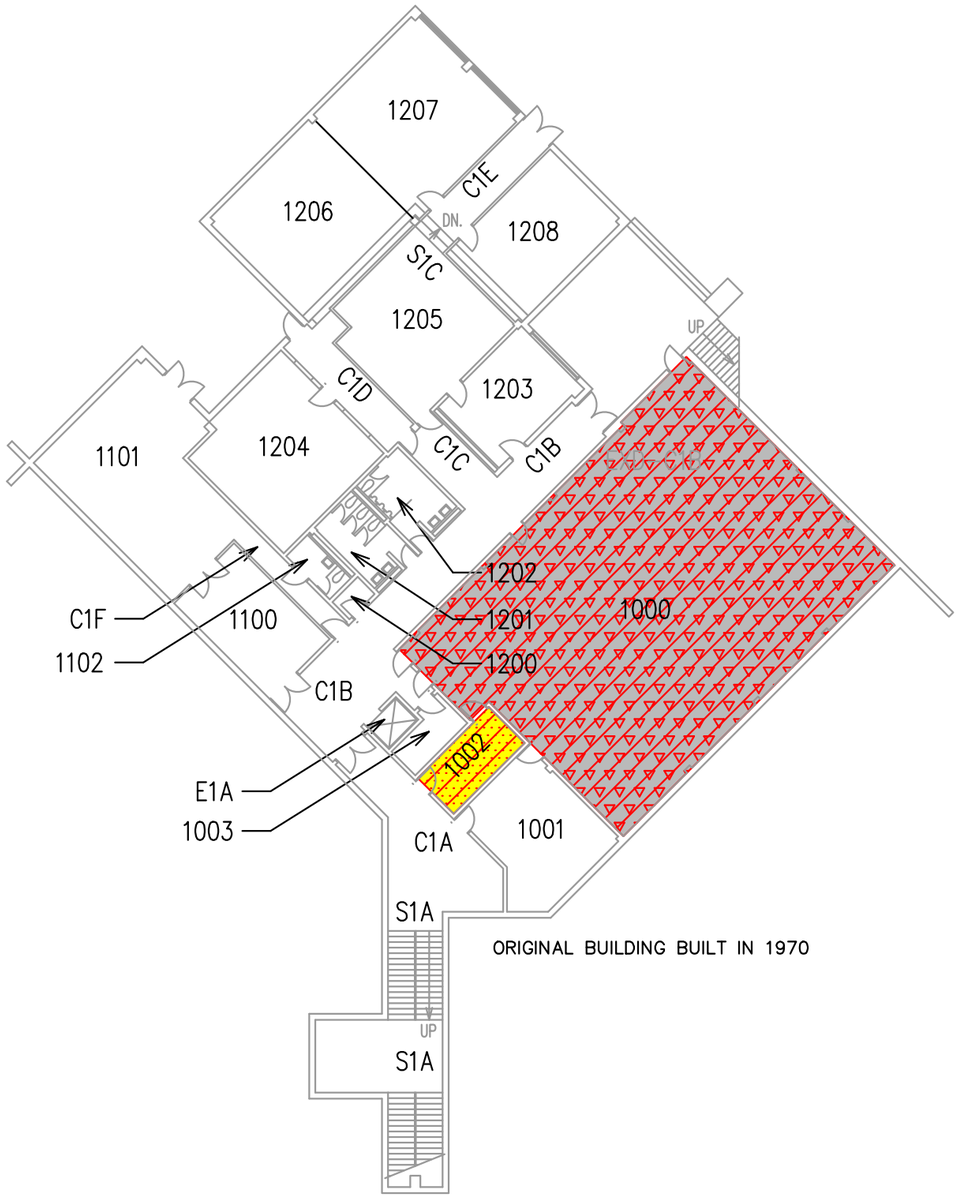
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

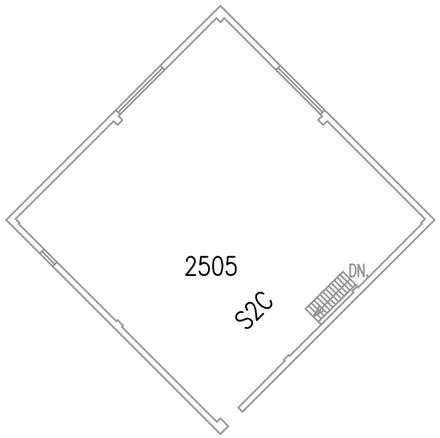
TITLE:
ASBESTOS – THERMAL SYSTEM INSULATION
EARLY CHILDHOOD CENTER – SECOND LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	A2–02
DATE: 12–16–14	REV: 7	

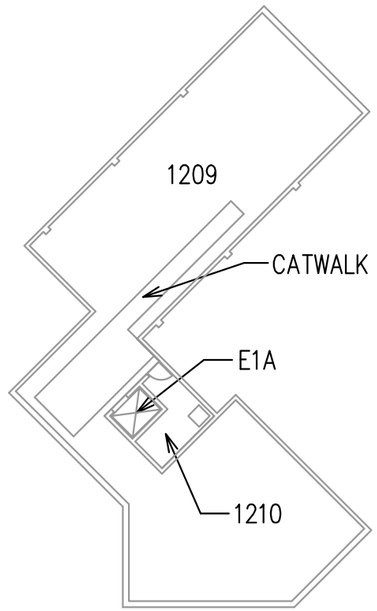


ORIGINAL BUILDING BUILT IN 1970



PENTHOUSE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970



MEZZANINE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970

LEGEND

- TILE AND MASTIC BOTH POSITIVE FOR ASBESTOS – HOMOGENEOUS MATERIAL #43 UNDER CARPET
- TOP LAYER OF TILE AND MASTIC NEGATIVE FOR ASBESTOS
  BOTTOM LAYER OF TILE AND MASTIC POSITIVE FOR ASBESTOS
  ASBESTOS – HOMOGENEOUS MATERIAL #1

NOTE: 1. Locations of asbestos containing materials (ACM) are approximate.

N

0 25

FEET

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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

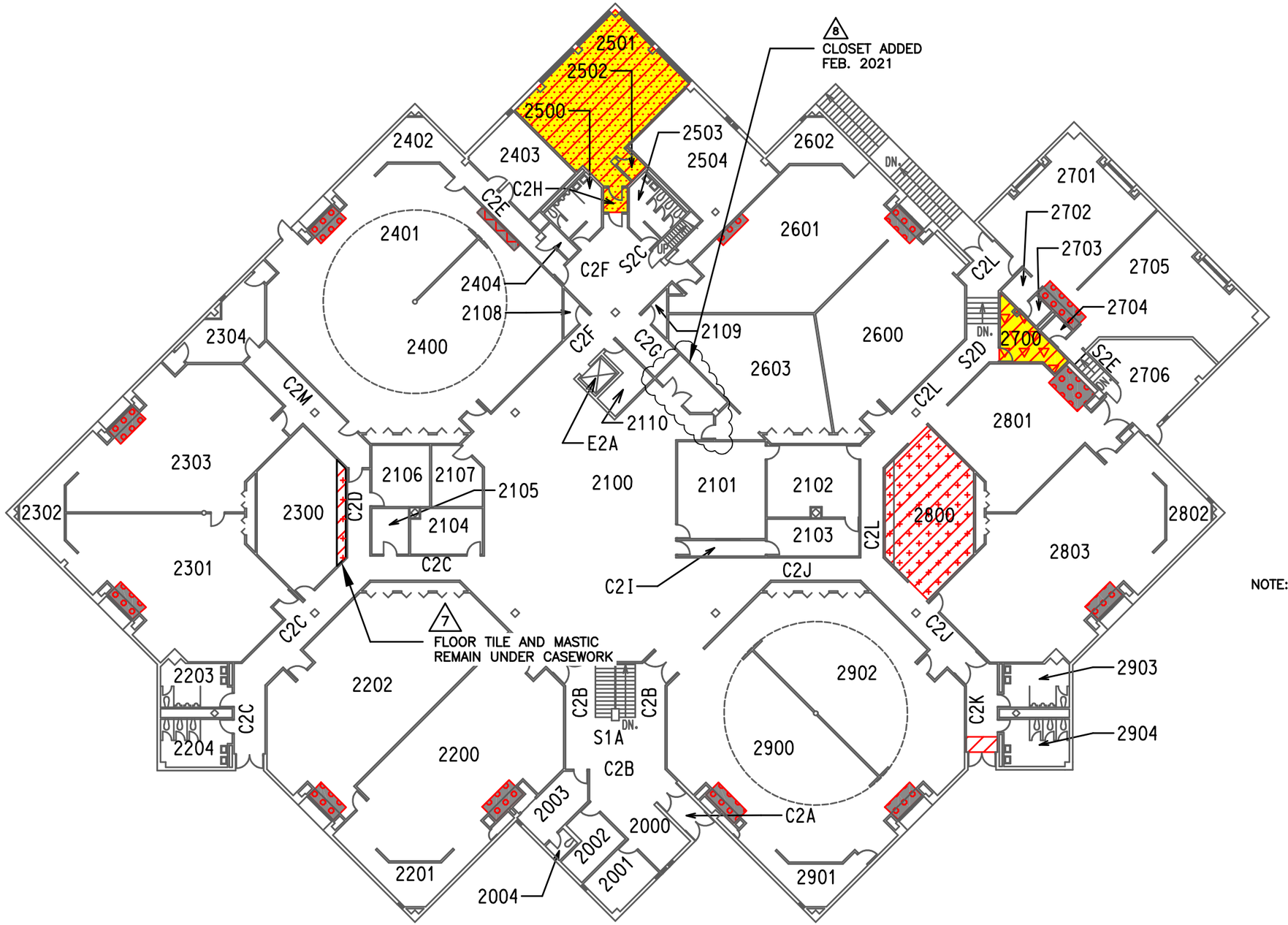
ASBESTOS – MISCELLANEOUS MATERIAL – FLOORING
EARLY CHILDHOOD CENTER – FIRST LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
12–16–14	3

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A3–01



LEGEND

- TILE NEGATIVE FOR ASBESTOS
  MASTIC POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #41 UNDER CARPET
- TWO LAYERS OF TILE AND MASTIC
  TOP LAYER OF TILE AND MASTIC
  NEGATIVE FOR ASBESTOS, BOTTOM
  LAYER OF TILE AND MASTIC
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #42 UNDER CARPET
- TILE AND MASTIC BOTH POSITIVE FOR
  ASBESTOS – HOMOGENEOUS
  MATERIAL #43 UNDER CARPET
- TILE AND MASTIC BOTH POSITIVE FOR
  ASBESTOS – HOMOGENEOUS
  MATERIAL #43 EXPOSED
- THREE LAYERS OF TILE AND MASTIC
  TOP TWO LAYERS OF TILE AND MASTIC
  NEGATIVE FOR ASBESTOS, BOTTOM
  LAYER OF TILE AND MASTIC
  POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #44 EXPOSED
- TILE NEGATIVE FOR ASBESTOS
  MASTIC POSITIVE FOR ASBESTOS
  HOMOGENEOUS MATERIAL #46 EXPOSED

NOTE: 1. Locations of asbestos containing material (ACM) are approximate.

N

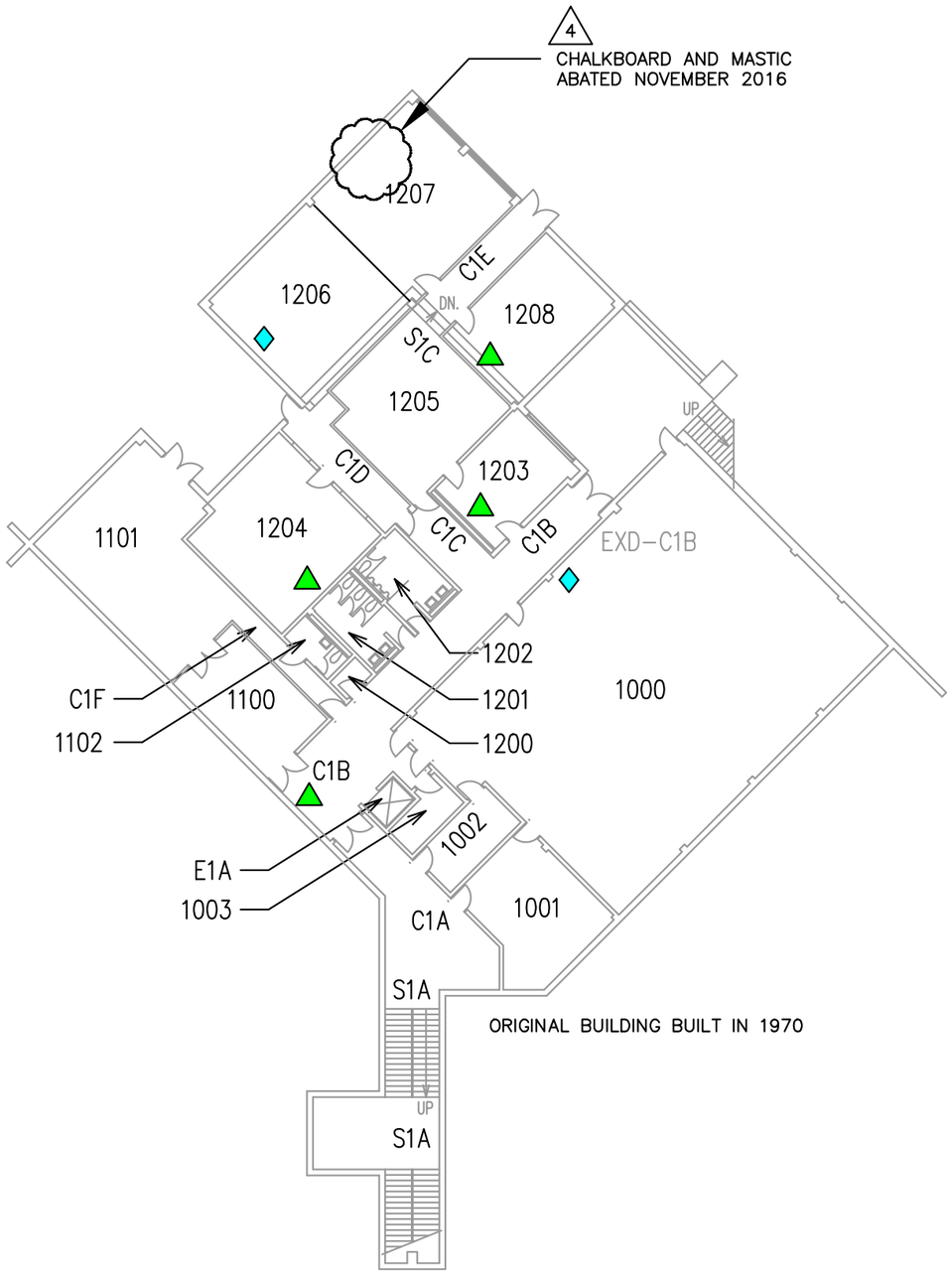
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FEET

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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

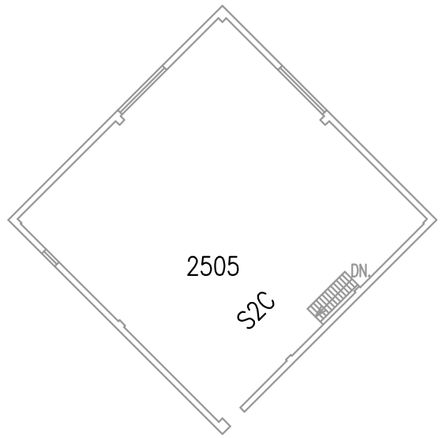
TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – FLOORING
EARLY CHILDHOOD CENTER – SECOND LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 02–09–21	REV: 8	A3–02

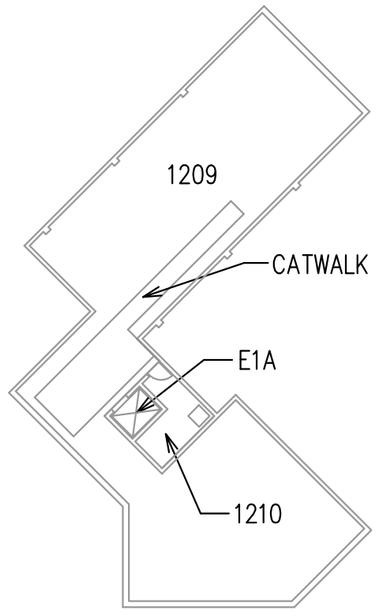


ORIGINAL BUILDING BUILT IN 1970



PENTHOUSE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970



MEZZANINE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970

LEGEND

- CHALK BOARD – CHALKBOARD MASTIC ASSUMED TO CONTAIN ASBESTOS HOMOGENEOUS MATERIALS #17
- MASTIC/SEALANT ON CLOCK/INTERCOM ASSEMBLY POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #32

NOTE:

1. All solid core metal or wood doors (homogeneous material #16) and chalkboard mastics (homogeneous material #17) are assumed ACM and not shown on this drawing unless noted otherwise.
2. All bulletin boards are assumed to have asbestos–containing mastic behind them, (homogeneous material #40) and are not shown on this drawing unless noted otherwise.
3. Locations of asbestos containing materials (ACM) are approximate.

4 4. All mirrors are assumed to have an asbestos–containing mastic behind them.

5. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.

N

0 25

FEET

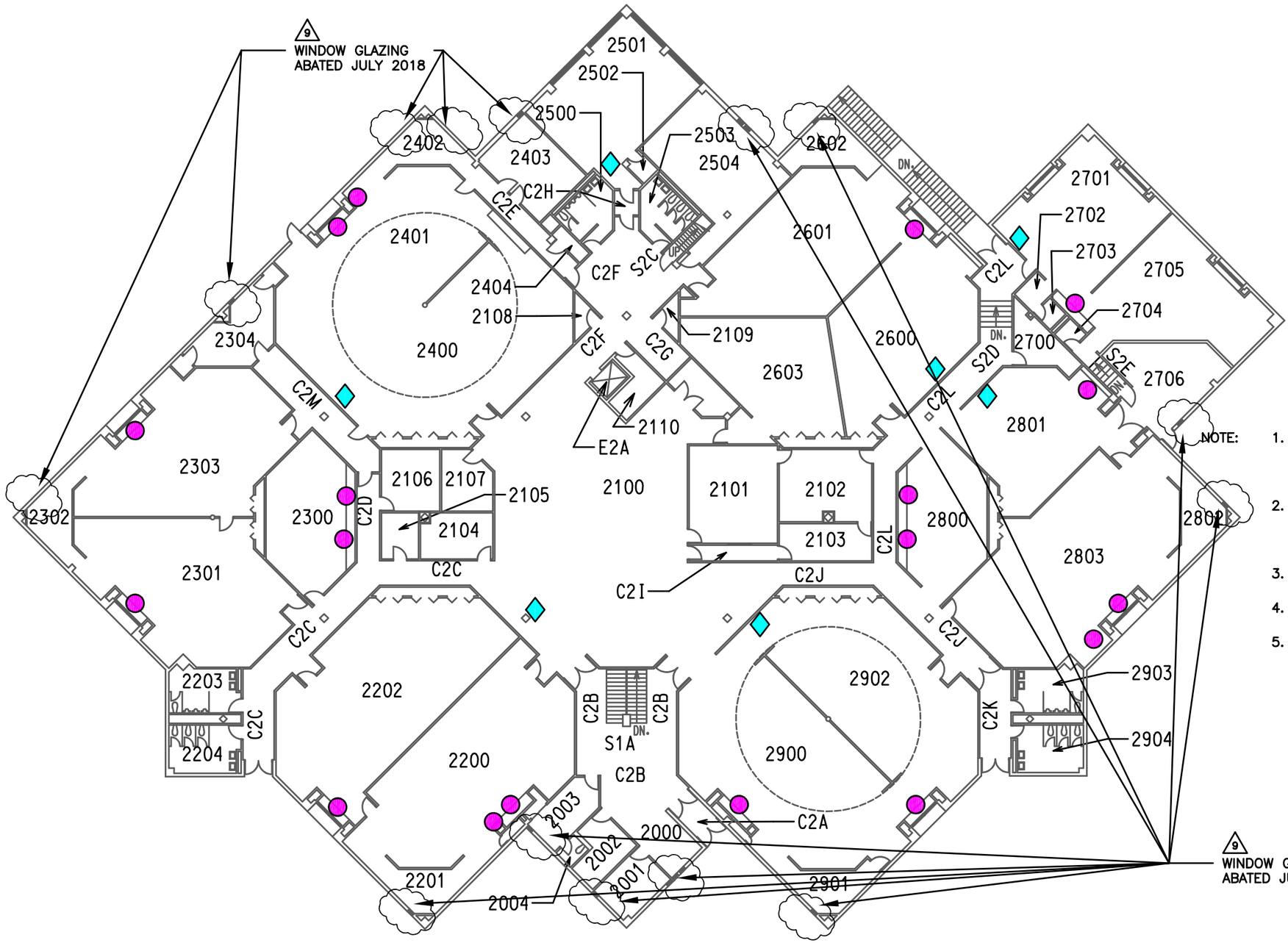
psi Information To Build On
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

ASBESTOS – MISCELLANEOUS MATERIAL – OTHER
EARLY CHILDHOOD CENTER – FIRST LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 11–10–16	REV: 4	A4–01



LEGEND

- CHALK BOARD – CHALKBOARD MASTIC ASSUMED TO CONTAIN ASBESTOS HOMOGENEOUS MATERIALS #17
- MASTIC/SEALANT ON CLOCK/INTERCOM ASSEMBLY POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIAL #32
- SINK MASTIC / SEALANT POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #36 & #38
- WINDOW GLAZING POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #49

NOTE:

1. All solid core metal or wood doors (homogeneous material #16) and chalkboard mastics (homogeneous material #17) are assumed ACM and not shown on this drawing unless noted otherwise.
2. All bulletin boards are assumed to have asbestos–containing mastic behind them, (homogeneous material #40) and are not shown on this drawing unless noted otherwise.
3. Locations of asbestos containing material (ACM) are approximate.
4. All mirrors are assumed to have an Asbestos–Containing mastic behind them.
5. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.

N

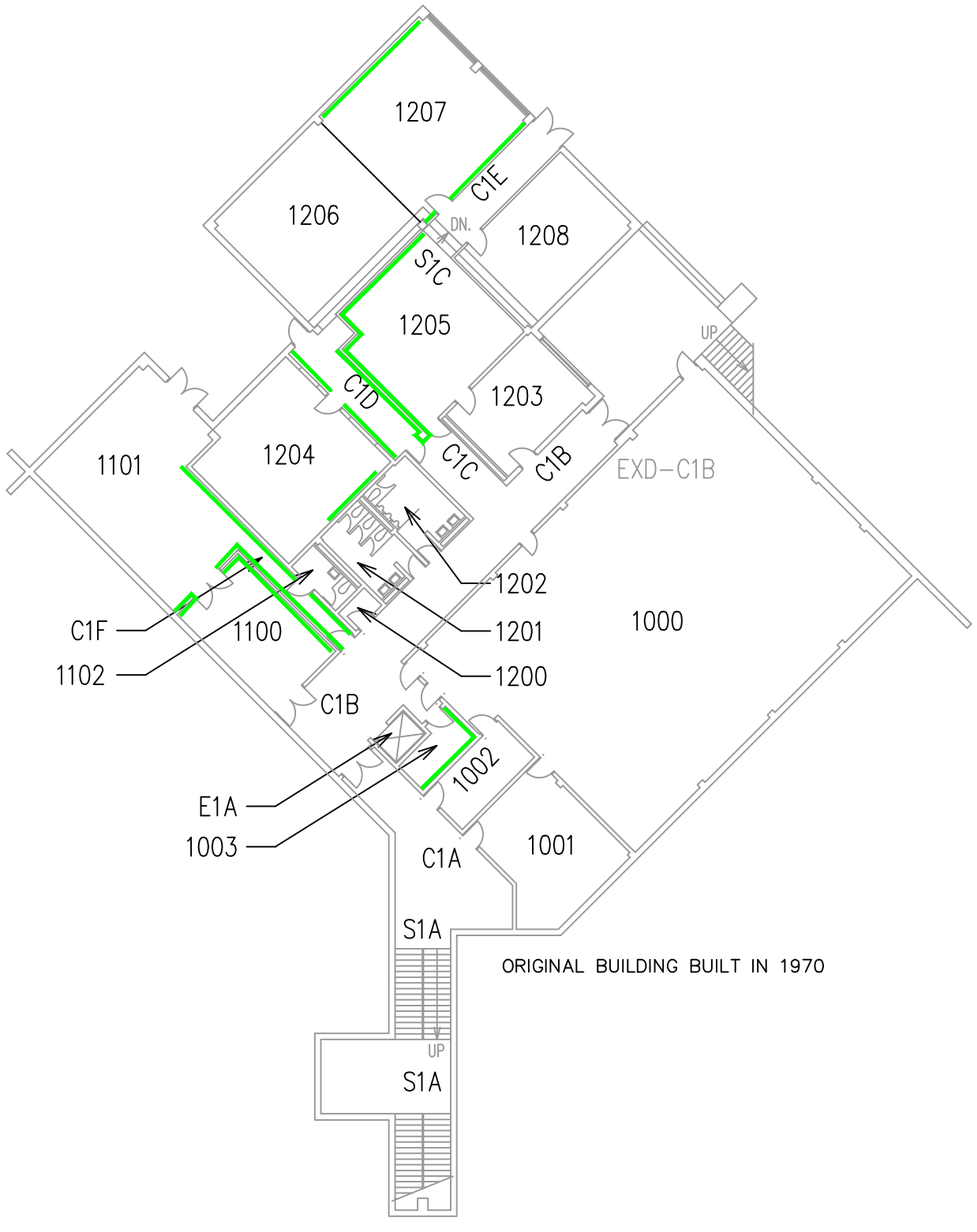
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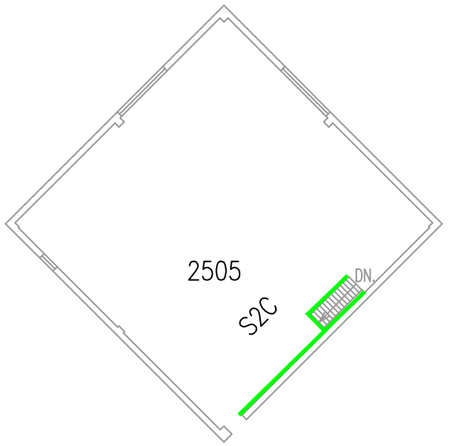
psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – OTHER
EARLY CHILDHOOD CENTER – SECOND LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

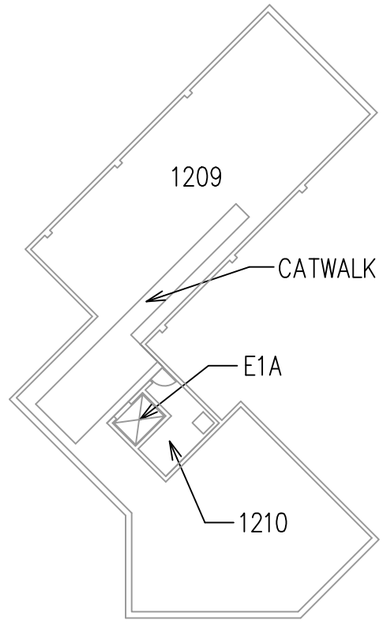
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TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 08–21–18	REV: 9	A4–02





PENTHOUSE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970



MEZZANINE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970

LEGEND

CEILINGS THAT HAVE DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #29.

DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #29.

NOTES:
1. Locations of materials with asbestos containing joint compound are approximate.
2. Unless specifically noted otherwise, all drywall in the original 1970 building, including soffits, is assumed to have asbestos containing joint compound.

N

0 25

FEET

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

ASBESTOS – MISCELLANEOUS MATERIAL – JOINT

EARLY CHILDHOOD CENTER – FIRST LEVEL

14605 CLAYTON RD. – BALLWIN, MO. 63011

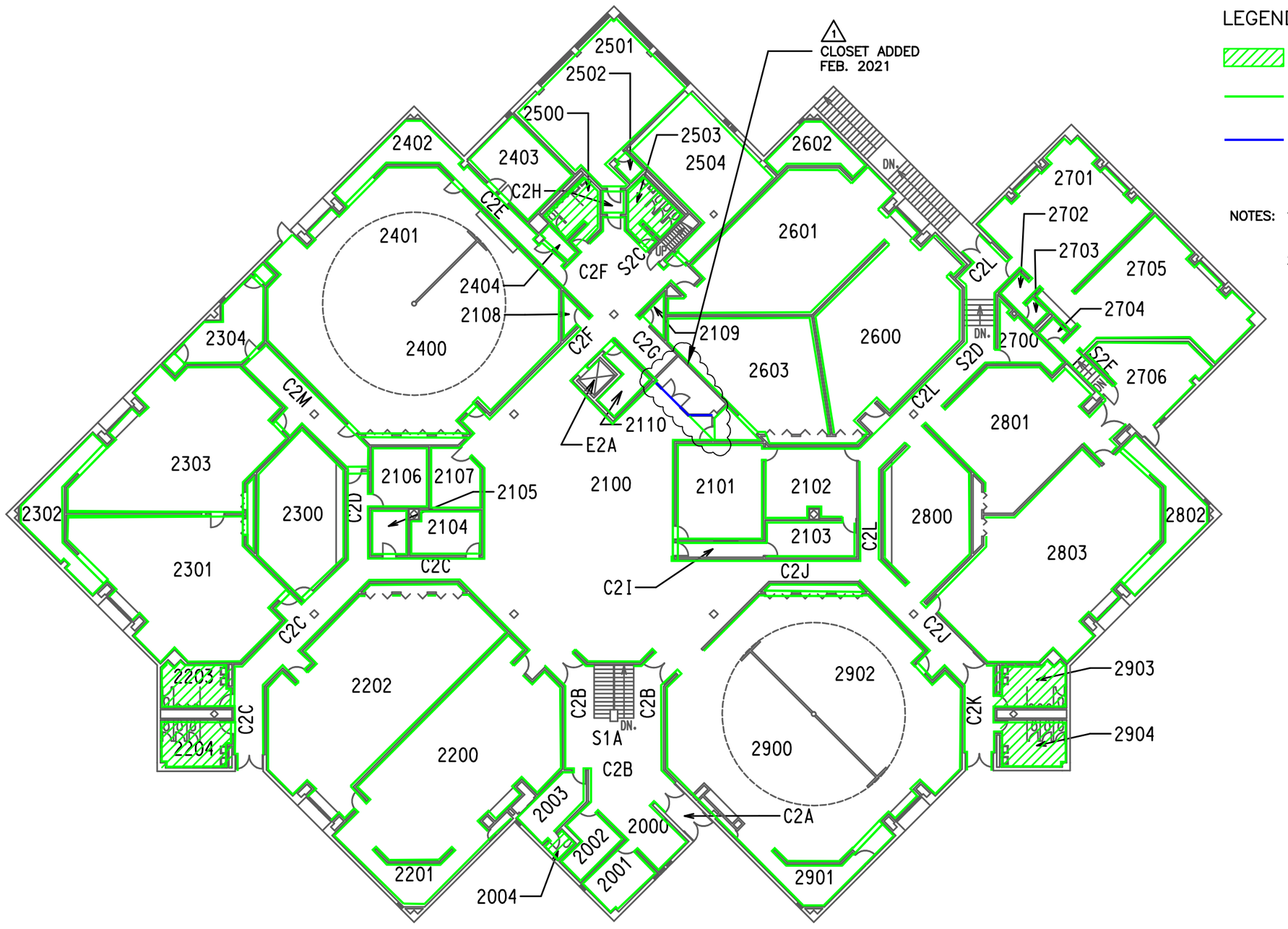
PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 03–30–18	REV: 0

PROJECT NO: 00291604

PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

A5–01



LEGEND

CEILINGS THAT HAVE DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #29.

DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #29.

SOFFIT HAS DRYWALL WITH ASBESTOS–CONTAINING JOINT COMPOUND. GYPSUM BOARD WALL BELOW SOFFIT HAS NON–ASBESTOS JOINT COMPOUND.

NOTES:
1. Locations of materials with asbestos containing joint compound are approximate.
2. Unless specifically noted otherwise, all drywall in the original 1970 building, including soffits, is assumed to have asbestos containing joint compound.

N

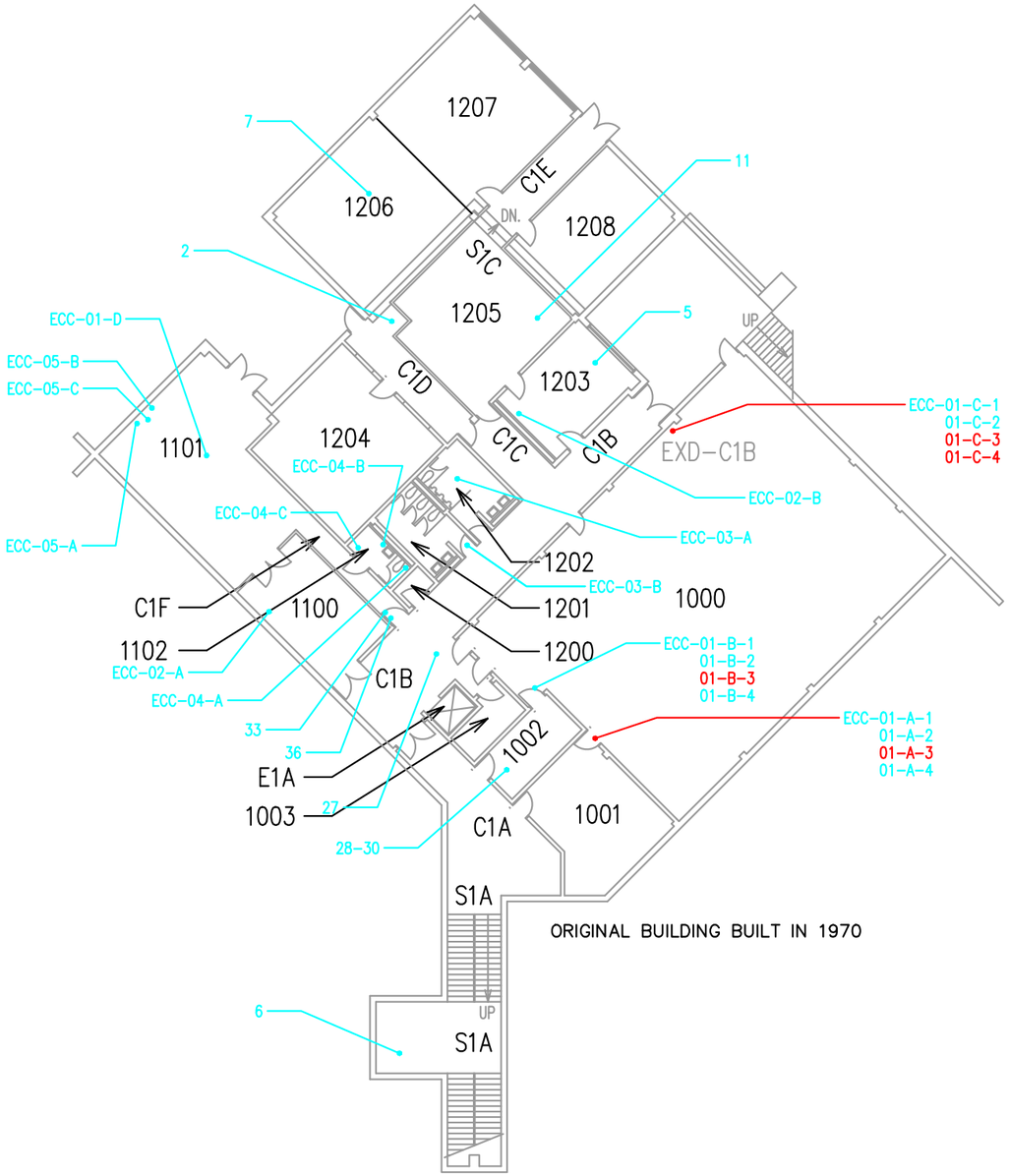
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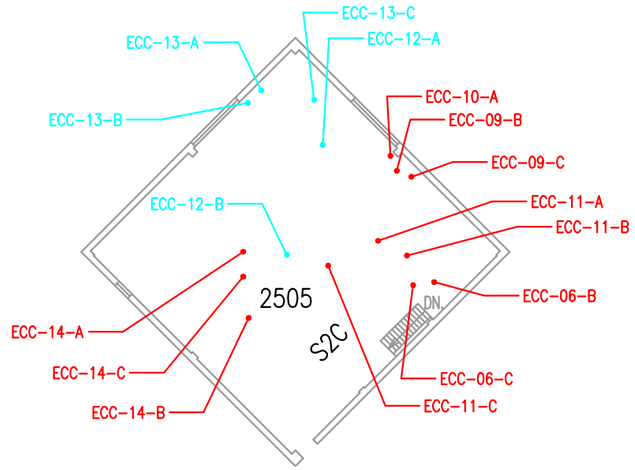
psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – JOINT COMPOUND
EARLY CHILDHOOD CENTER – SECOND LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

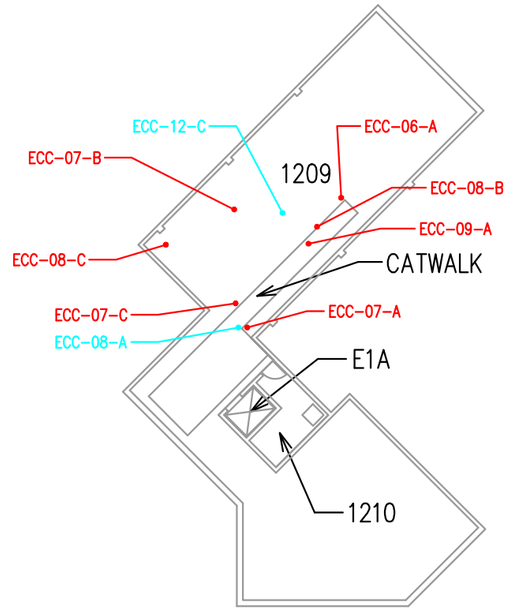
DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 02–09–21	REV: 1	A5–02





PENTHOUSE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970



MEZZANINE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970

LEGEND

ECC-01-A	Asbestos or Not Analyzed
ECC-01-B	Non-Asbestos

NOTES: 1. Locations of samples are approximate.

N

0 25

FEET

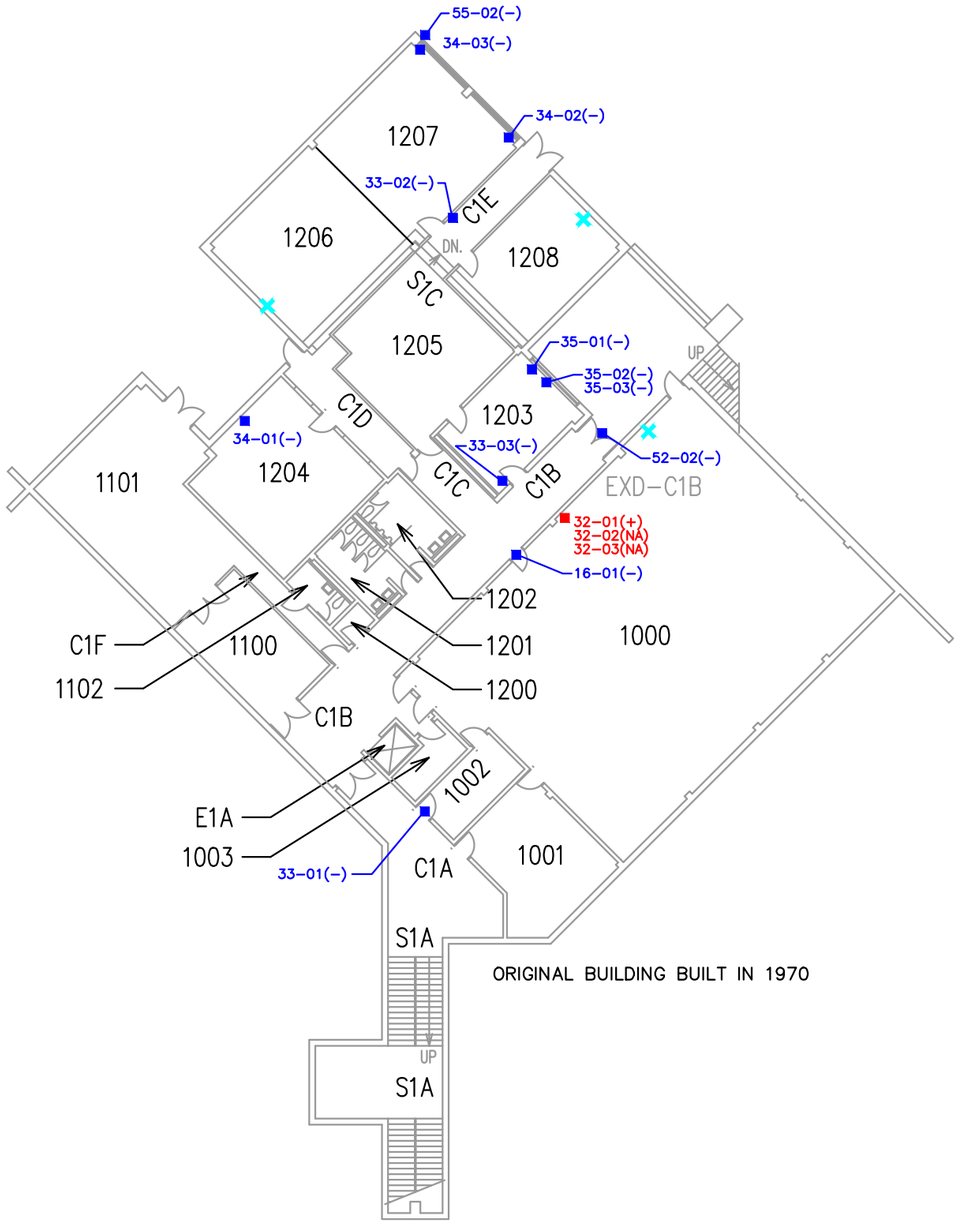
psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

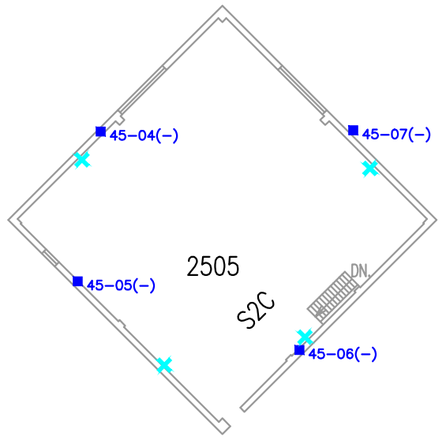
ASBESTOS – BULK SAMPLE LOCATIONS
EARLY CHILDHOOD CENTER – FIRST LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 12-16-14	REV: 1	B1-01	

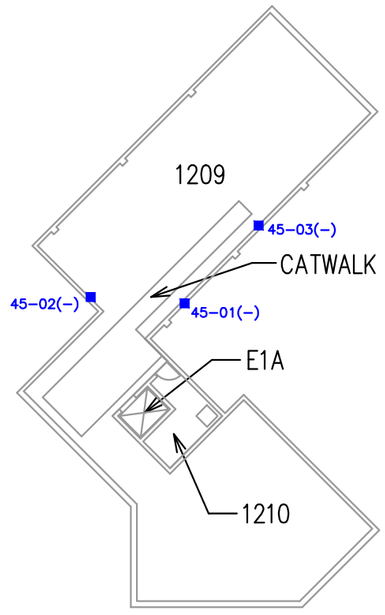


ORIGINAL BUILDING BUILT IN 1970



PENTHOUSE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970



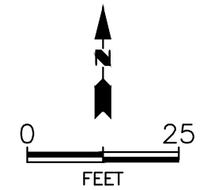
MEZZANINE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970

LEGEND

■ 01(+)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
■ 01(–)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
■ 01(NA)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)
×	APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE – NO VERMICULITE DISCOVERED
×	APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE – VERMICULITE IDENTIFIED

NOTES:
1. Sample numbers that have a hyphen (65–01+), are preceeded with a prefix of "ECC" in the analytical report.
2. Sample number / locations shown on this drawing are from the 2003 re–inspection.
3. As part of Parkway's 2012 3–Year re–inspections, PSC randomly inspected exterior concrete block walls of the building erected prior to 1990 for the presence of vermiculite. Exterior concrete block walls behind gypsum board or other finished surfaces were not inspected for the presence of vermiculite. PSC did not inspect interior concrete block walls.

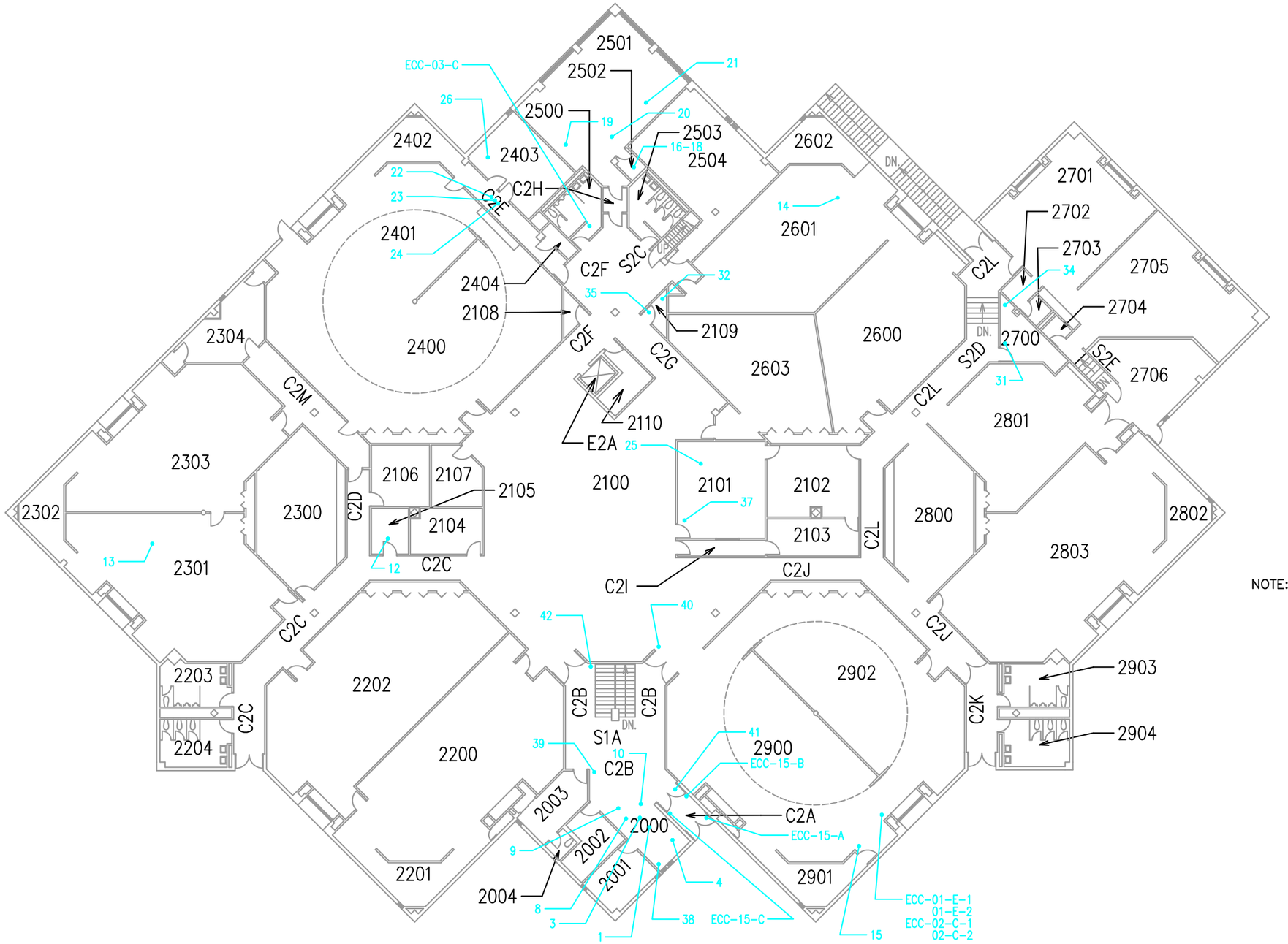


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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
EARLY CHILDHOOD CENTER – FIRST LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 11–28–17	REV: 4	B1.1–01	



LEGEND

ECC-01-A	Asbestos or Not Analyzed
ECC-02-C	Non-Asbestos

NOTE: 1. Locations of bulk samples are approximate.

0 25
FEET

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Tel (314) 432-8073 Fax (314) 432-5119

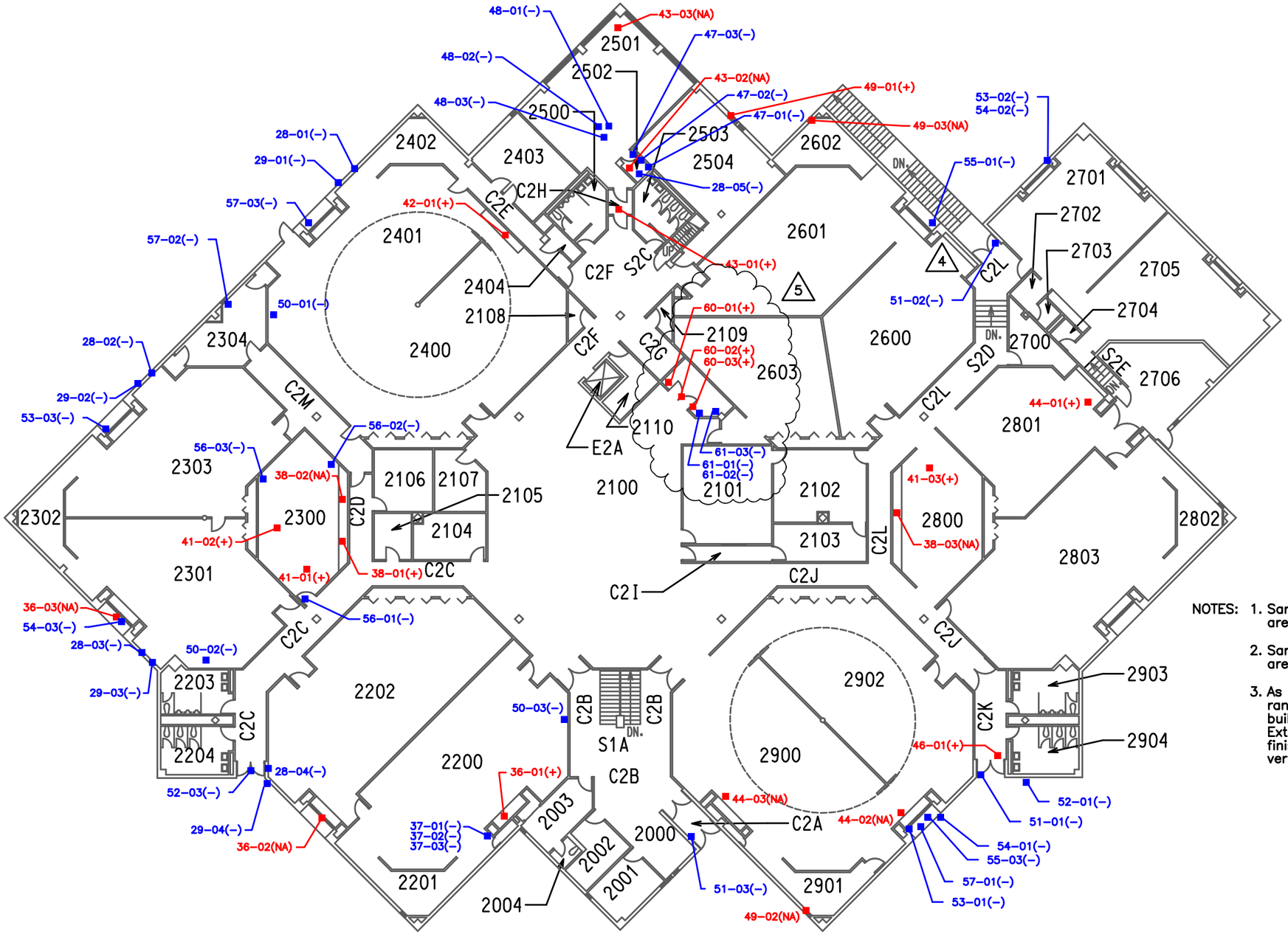
TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
EARLY CHILDHOOD CENTER – SECOND LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 12-16-14	REV: 1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

B2-02



LEGEND

■ 01(+)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
■ 01(–)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
■ 01(NA)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)
×	APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE – NO VERMICULITE DISCOVERED
×	APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE – VERMICULITE IDENTIFIED

NOTES:
1. Sample numbers that have a hyphen (65–01+), are preceeded with a prefix of "ECC" in the analytical report.
2. Sample number / locations shown on this drawing are from the 2003 and subsequent re–inspections.
3. As part of Parkway's 2012 3–Year re–inspections, PSC randomly inspected exterior concrete block walls of the building erected prior to 1990 for the presence of vermiculite. Exterior concrete block walls behind gypsum board or other finished surfaces were not inspected for the presence of vermiculite. PSC did not inspect interior concrete block walls.

N

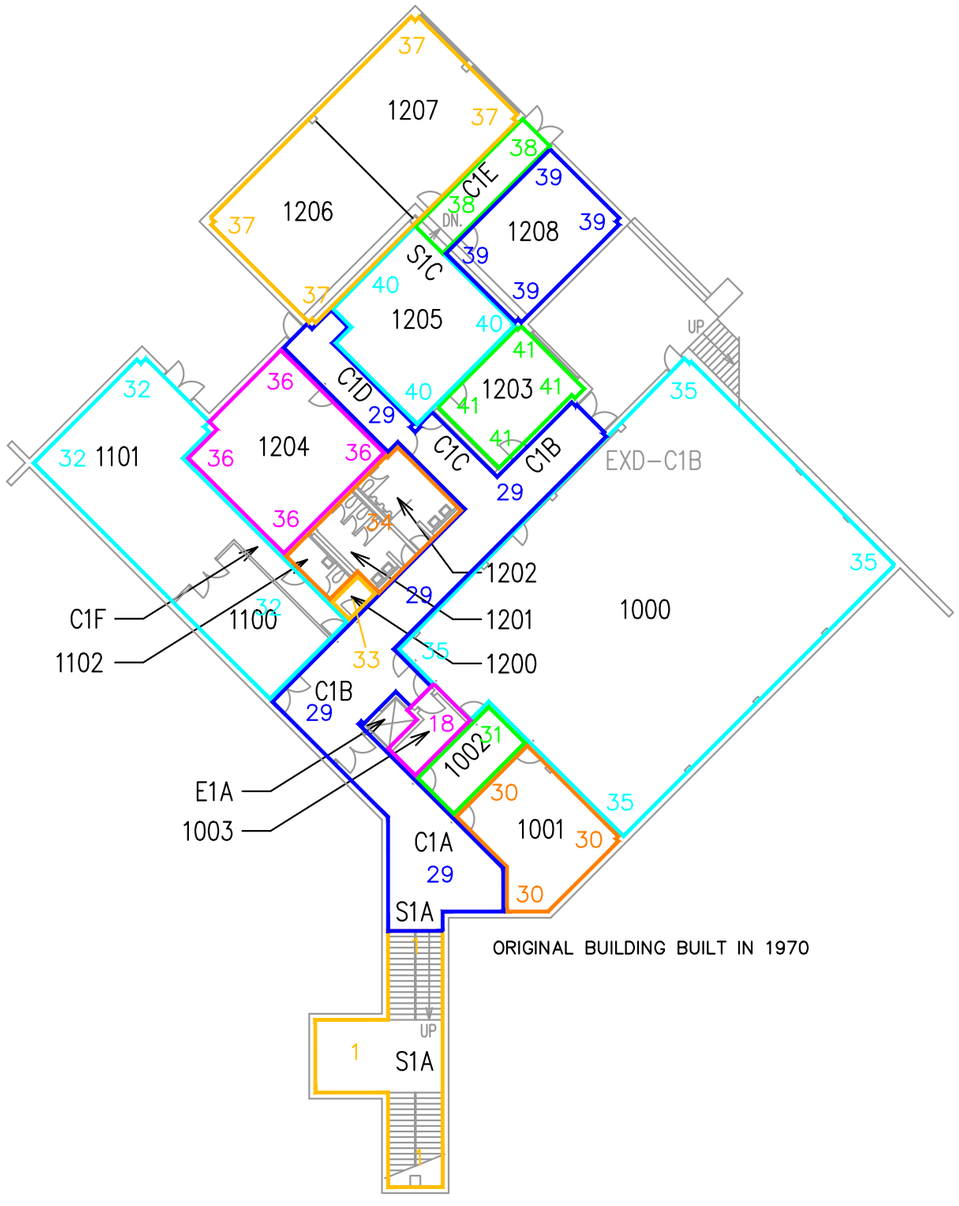
0 25
FEET

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Tel (314) 432-8073 Fax (314) 432-5119

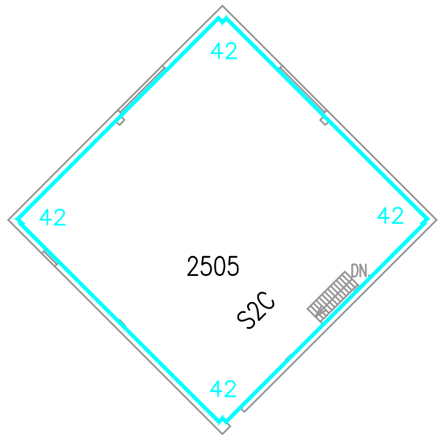
TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
EARLY CHILDHOOD CENTER – SECOND LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 02–09–21	REV: 6	B2.1–02	

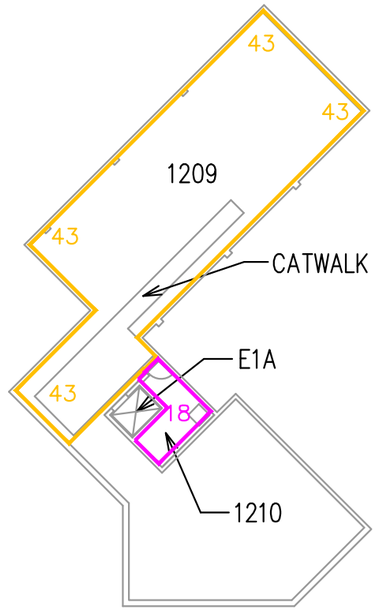


ORIGINAL BUILDING BUILT IN 1970



PENTHOUSE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970



MEZZANINE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970

LEGEND

1	HALLWAYS/CORRIDORS
18	STORAGE
29	HALLWAYS/CORRIDORS
30	STORAGE ROOM
31	OFFICE
32	MECHANICAL ROOM/STORAGE
33	CUSTODIAL CLOSET
34	RESTROOMS
35	GYMNASIUM
36	CLASSROOM
37	CLASSROOMS
38	HALLWAY/CORRIDOR
39	CLASSROOM/STORAGE
40	CLASSROOM
41	OFFICE
42	MECHANICAL ROOM
43	MECHANICAL ROOM

N

0 25

FEET

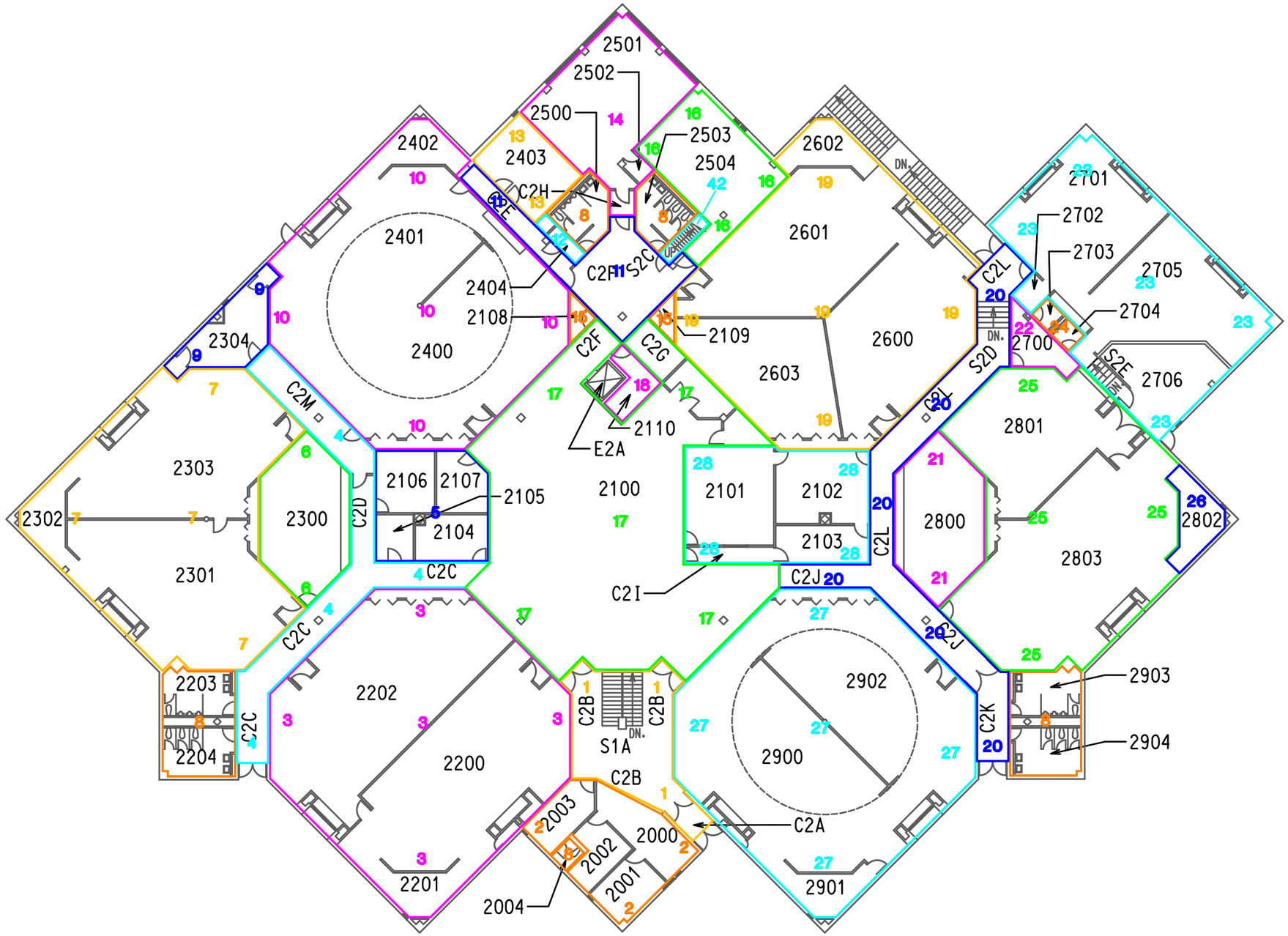
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

ASBESTOS – FUNCTIONAL SPACES
EARLY CHILDHOOD CENTER – FIRST LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 12–16–14	REV: 4	F1–01	



LEGEND

1	HALLWAYS/CORRIDORS
2	ADMINISTRATIVE OFFICE
3	CLASSROOMS
4	HALLWAYS/CORRIDORS
5	COUNSELING OFFICES
6	CLASSROOMS
7	CLASSROOMS
8	RESTROOMS
9	STORAGE ROOMS
10	CLASSROOMS
11	HALLWAYS/CORRIDORS
12	CUSTODIAL CLOSET
13	NURSES OFFICE
14	CONFERENCE ROOM
15	STORAGE ROOM
16	CLASSROOM
17	COMMONS AREA
18	STORAGE
19	CLASSROOMS
20	HALLWAYS/CORRIDORS
21	STAFF LOUNGE
22	CUSTODIAL OFFICE
23	CLASSROOMS
24	RESTROOMS
25	CLASSROOMS
26	STORAGE ROOM
27	CLASSROOM
28	CLASSROOM
42	MECHANICAL ROOM

N

0 25

FEET

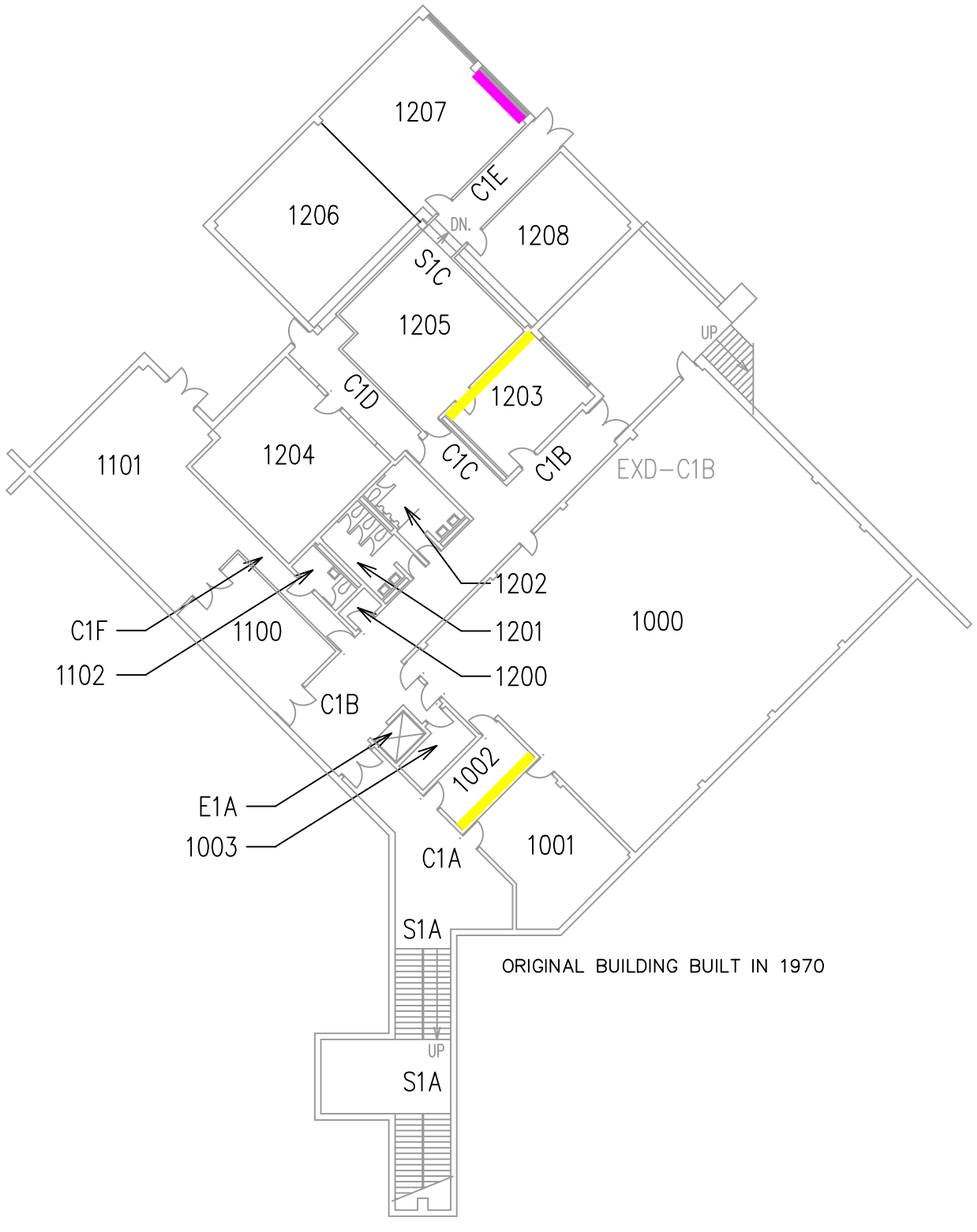
psi Information To Build On
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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

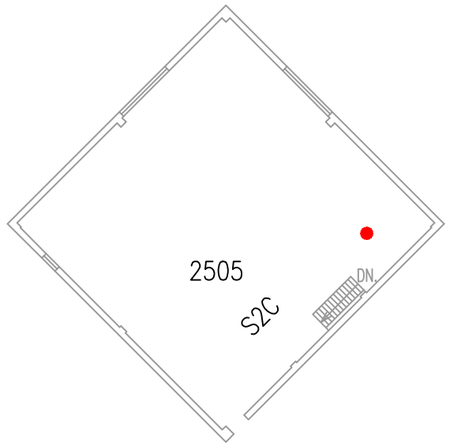
ASBESTOS – FUNCTIONAL SPACES
EARLY CHILDHOOD CENTER – SECOND LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN: TDA	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 12–16–14	REV: 3	F1–02	

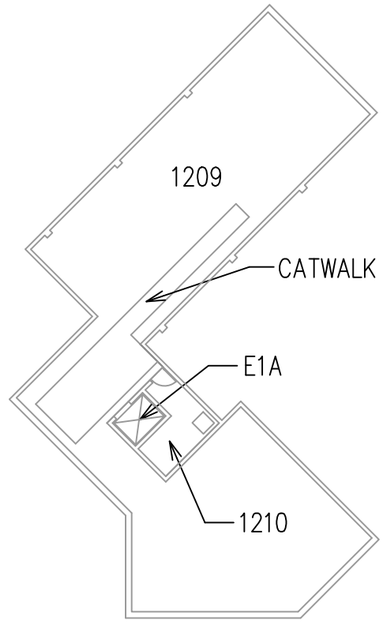


ORIGINAL BUILDING BUILT IN 1970



PENTHOUSE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970



MEZZANINE FLOOR PLAN

ORIGINAL BUILDING BUILT IN 1970

LEGEND

- C D A B — CLAYTON ROAD IS ON "A" SIDE
- BUILDING ADDITION YEAR OF COMPLETION
- WALL
- LINTEL
- PIPE FITTING

NOTE: This drawing must be used in conjunction with the LBP Testing Data Sheet. Do not disturb LBP materials without reviewing the LBP Inspection Report.

0 25
FEET

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Tel (314) 432-8073 Fax (314) 432-5119

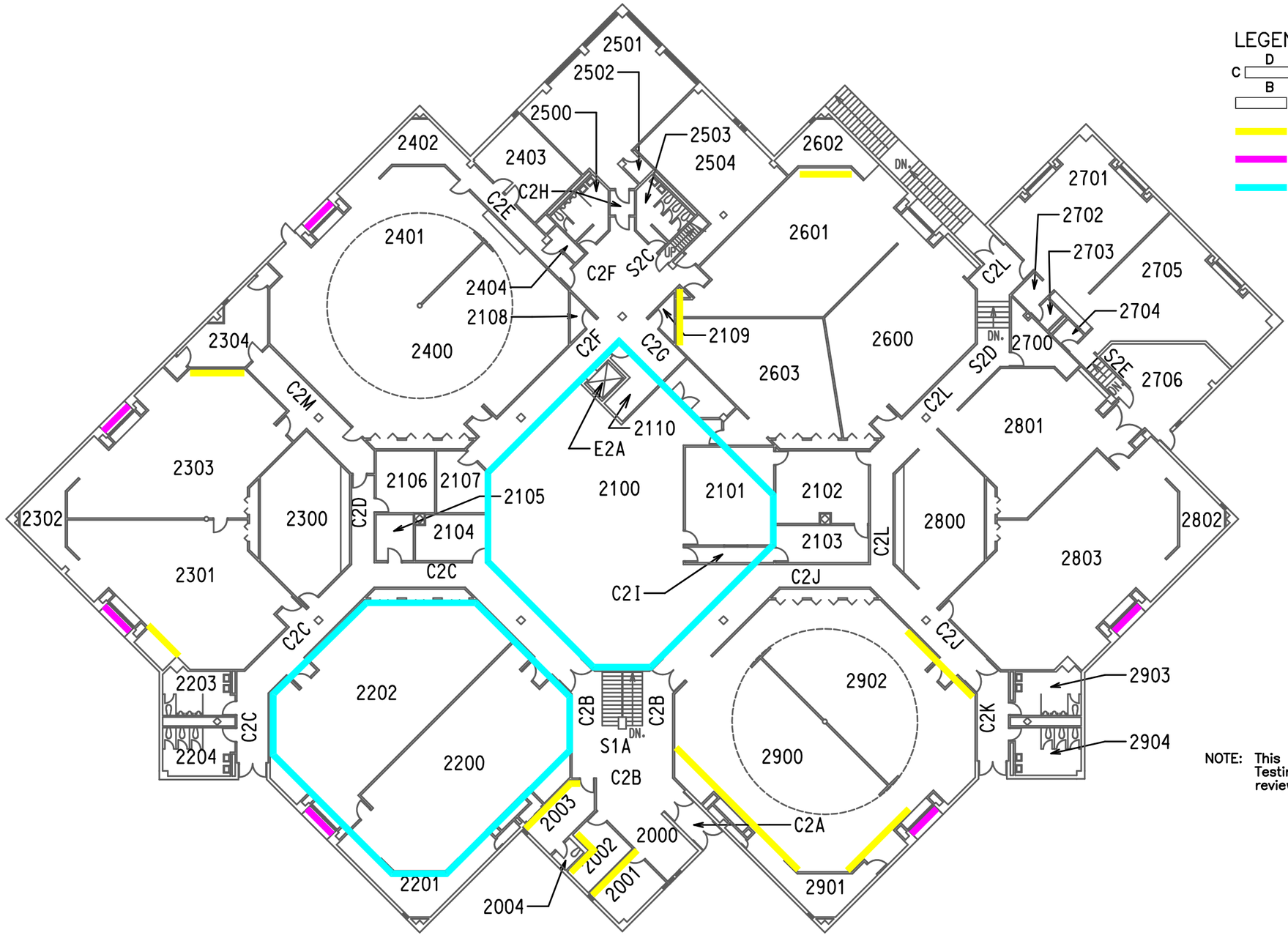
TITLE:
APPROXIMATE LOCATION OF LEAD BASED PAINT (LBP)
EARLY CHILDHOOD CENTER – FIRST LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
12–16–14	0

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

L1–01



NOTE: This drawing must be used in conjunction with the LBP Testing Data Sheet. Do not disturb LBP materials without reviewing the LBP Inspection Report.

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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

APPROXIMATE LOCATION OF LEAD BASED PAINT (LBP)– UPPER LEVEL
EARLY CHILDHOOD CENTER – SECOND LEVEL
14605 CLAYTON RD. – BALLWIN, MO. 63011

PARKWAY SCHOOLS

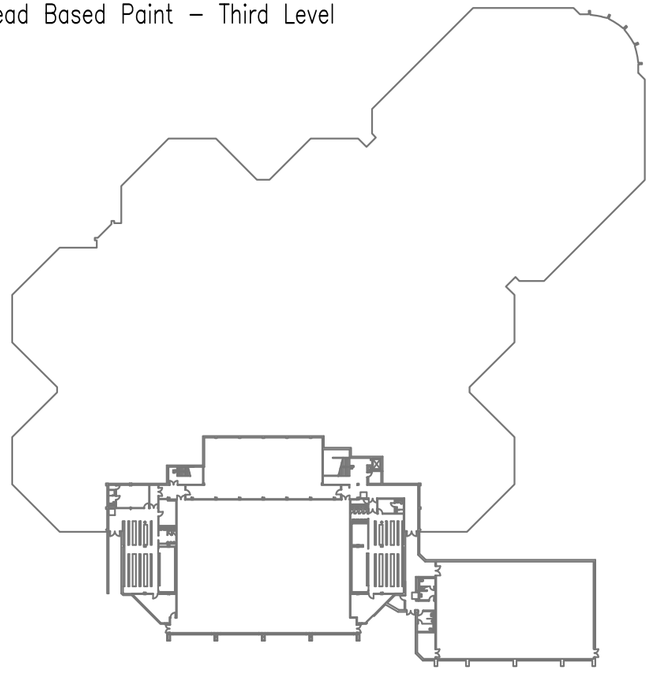
DWN: TDA	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 12–16–14	REV: 0	L1–02	

DRAWING INDEX

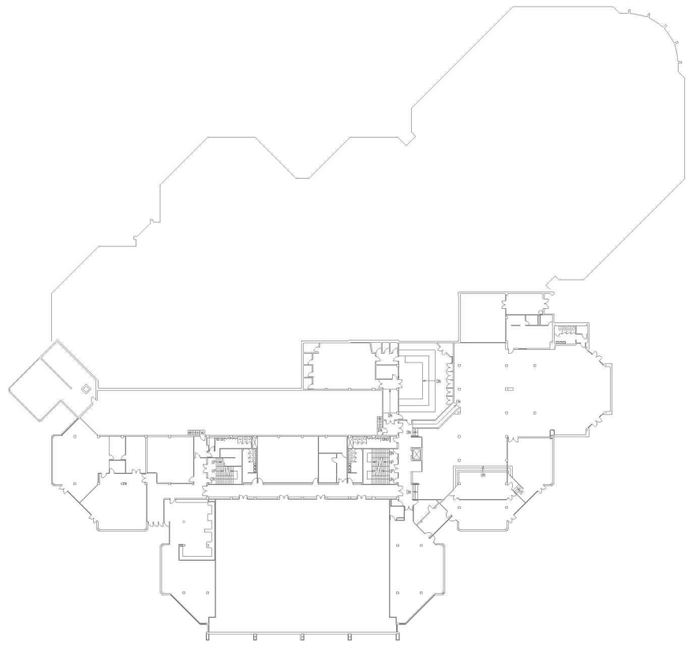
HMD–1.0 Cover Sheet
A2–01 Asbestos – Thermal System Insulation – First Level
A2–02 Asbestos – Thermal System Insulation – Second Level
A2–03 Asbestos – Thermal System Insulation – Third Level
A3–01 Asbestos – Miscellaneous Material – Flooring – First Level
A3–02 Asbestos – Miscellaneous Material – Flooring – Second Level
A3–03 Asbestos – Miscellaneous Material – Flooring – Third Level
A4–01 Asbestos – Miscellaneous Material – Other – First Level
A4–02 Asbestos – Miscellaneous Material – Other – Second Level
A4–03 Asbestos – Miscellaneous Material – Other – Third Level
A5–01 Asbestos – Miscellaneous Material – Joint Compound – First Level
A5–02 Asbestos – Miscellaneous Material – Joint Compound – Second Level
A5–03 Asbestos – Miscellaneous Material – Joint Compound – Third Level
A8–01 Asbestos – Miscellaneous Material – Caulk – First Level
A8–02 Asbestos – Miscellaneous Material – Caulk – Second Level
A8–03 Asbestos – Miscellaneous Material – Caulk – Third Level
L1–01 Lead Based Paint – First Level
L1–02 Lead Based Paint – Second Level
L1–03 Lead Based Paint – Third Level

DRAWING INDEX

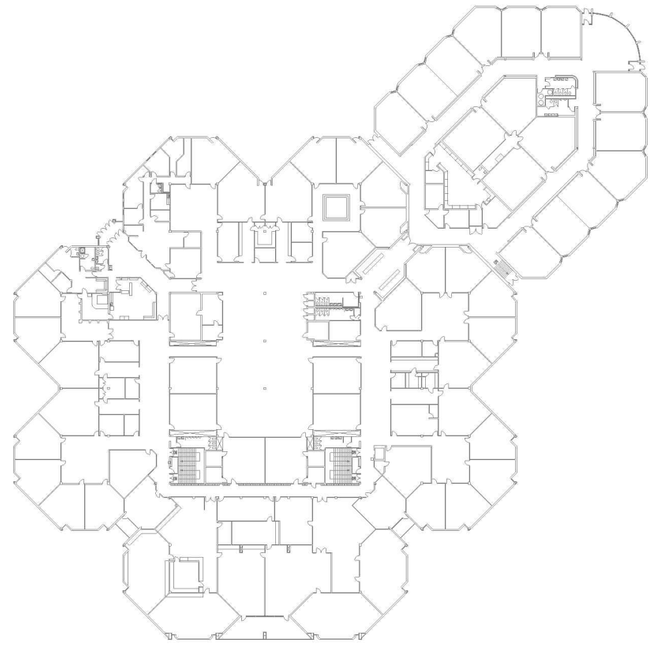
B1-01 Asbestos - Bulk Sample Locations - First Level
B1.1-01 Asbestos - Bulk Sample Locations - First Level
B2-02 Asbestos - Bulk Sample Locations - Second Level
B2.1-02 Asbestos - Bulk Sample Locations - Second Level
B3-03 Asbestos - Bulk Sample Locations - Third Level
B3.1-03 Asbestos - Bulk Sample Locations - Third Level
B3.2-03 Asbestos - Bulk Sample Locations - Third Level
B4-Roof Asbestos - Bulk Sample Locations - Roof Level
F1-01 Asbestos - Functional Spaces - First Level
F1-02 Asbestos - Functional Spaces - Second Level
F1-03 Asbestos - Functional Spaces - Third Level



First Level



Second Level



Third Level

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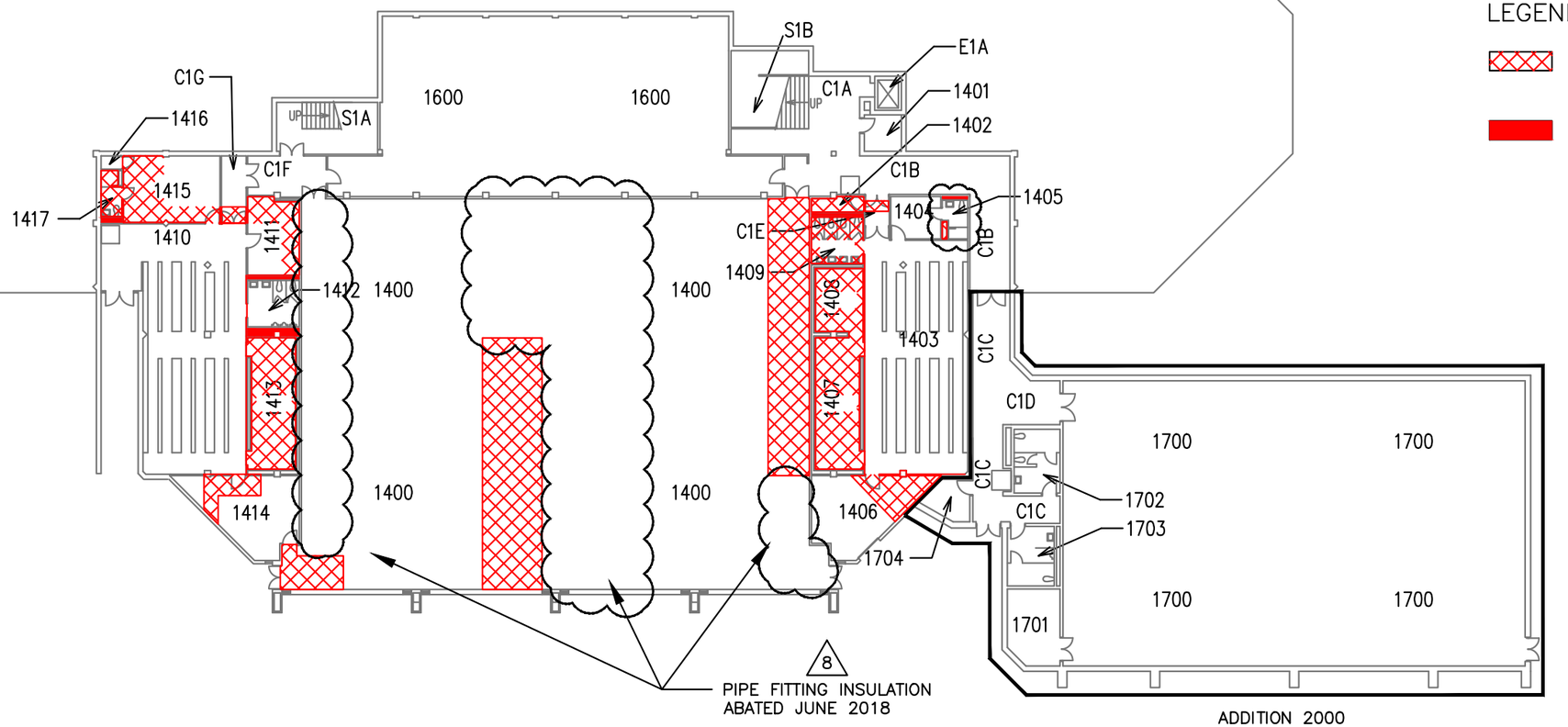
TITLE:
HAZARDOUS MATERIALS DRAWINGS
WEST MIDDLE SCHOOL – SCIENCE RENOVATIONS
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
ASSEMBLED: 2–5–18	REV:

PARKWAY PROJECT NO.: 431701B
PARKWAY SCHOOL DISTRICT

HMD–1.0



ADDITION 2000

LEGEND

APPROXIMATE LOCATION OF TSI FITTINGS HOMOGENEOUS MATERIALS #11, #12, #13, #14, #15 & #16

APPROXIMATE LOCATION OF TSI FITTING PRESUMED TO BE IN PIPE CHASE HOMOGENEOUS MATERIALS #11, #12 & #13

NOTES:
1. The drawing for this material, originally produced by NPN Environmental for P.S.D.
2. Locations of ACM material are approximate.
3. Revisions 1–4 prepared by PSC Industrial Outsourcing, LP.

N

0 30

FEET

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Tel (314) 432-8073 Fax (314) 432-5119

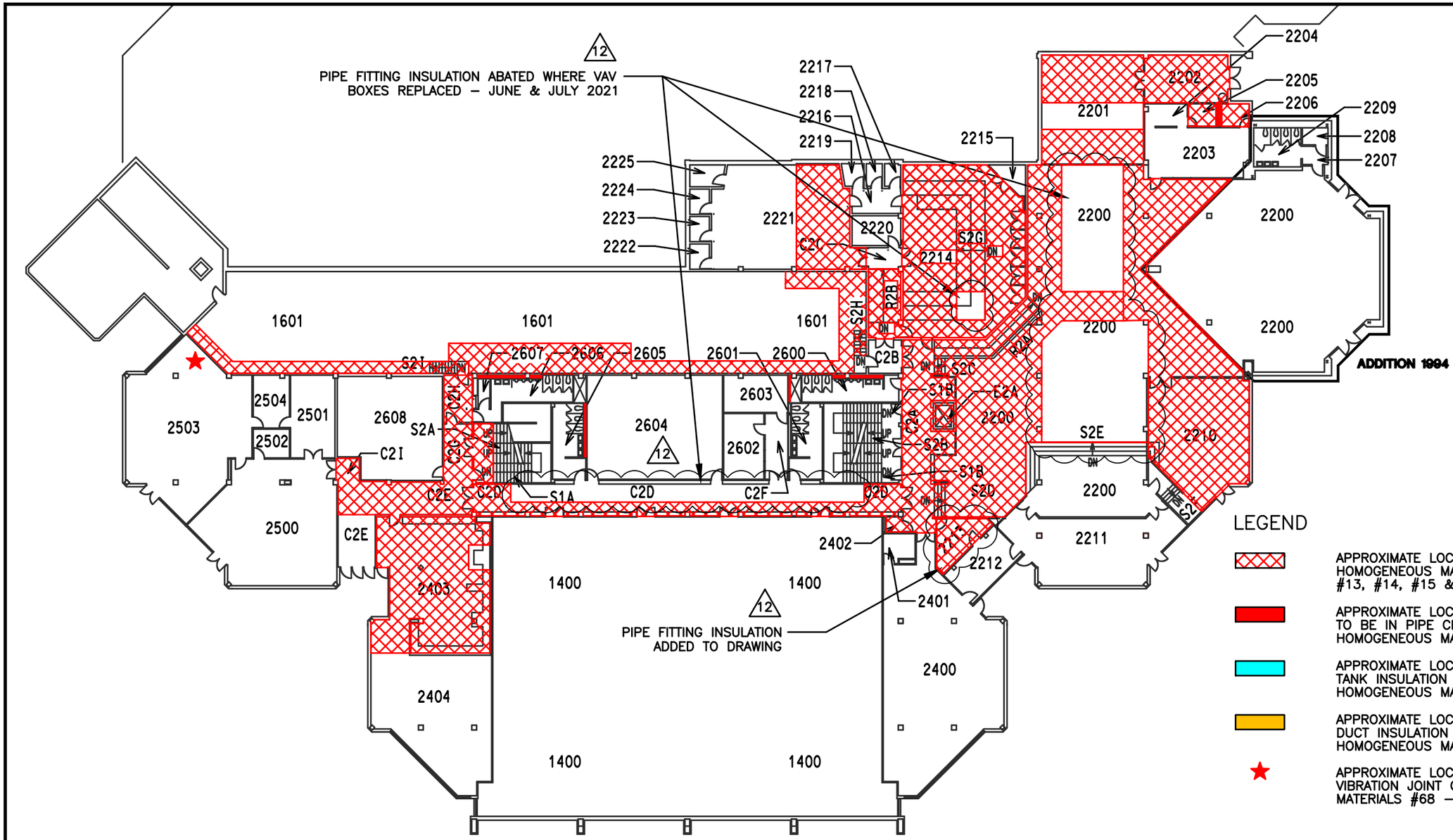
TITLE:
ASBESTOS – THERMAL SYSTEM INSULATION
WEST MIDDLE SCHOOL – FIRST LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 08–21–18	REV: 8

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A2–01



ORIGINAL BUILDING BUILT IN 1969

LEGEND

- APPROXIMATE LOCATION OF TSI FITTINGS HOMOGENEOUS MATERIALS #11, #12, #13, #14, #15 & #16
- APPROXIMATE LOCATION OF TSI FITTING PRESUMED TO BE IN PIPE CHASE HOMOGENEOUS MATERIALS #11, #12 & #13
- APPROXIMATE LOCATION OF HOT WATER TANK INSULATION HOMOGENEOUS MATERIALS #17
- APPROXIMATE LOCATION OF BOILER EXHAUST DUCT INSULATION HOMOGENEOUS MATERIALS #18
- ★ APPROXIMATE LOCATION OF ASBESTOS–CONTAINING VIBRATION JOINT CLOTH – HOMOGENEOUS MATERIALS #68 – POSITIVE FOR ASBESTOS.

NOTES: 1. Locations of ACM material are approximate.

N

0 30

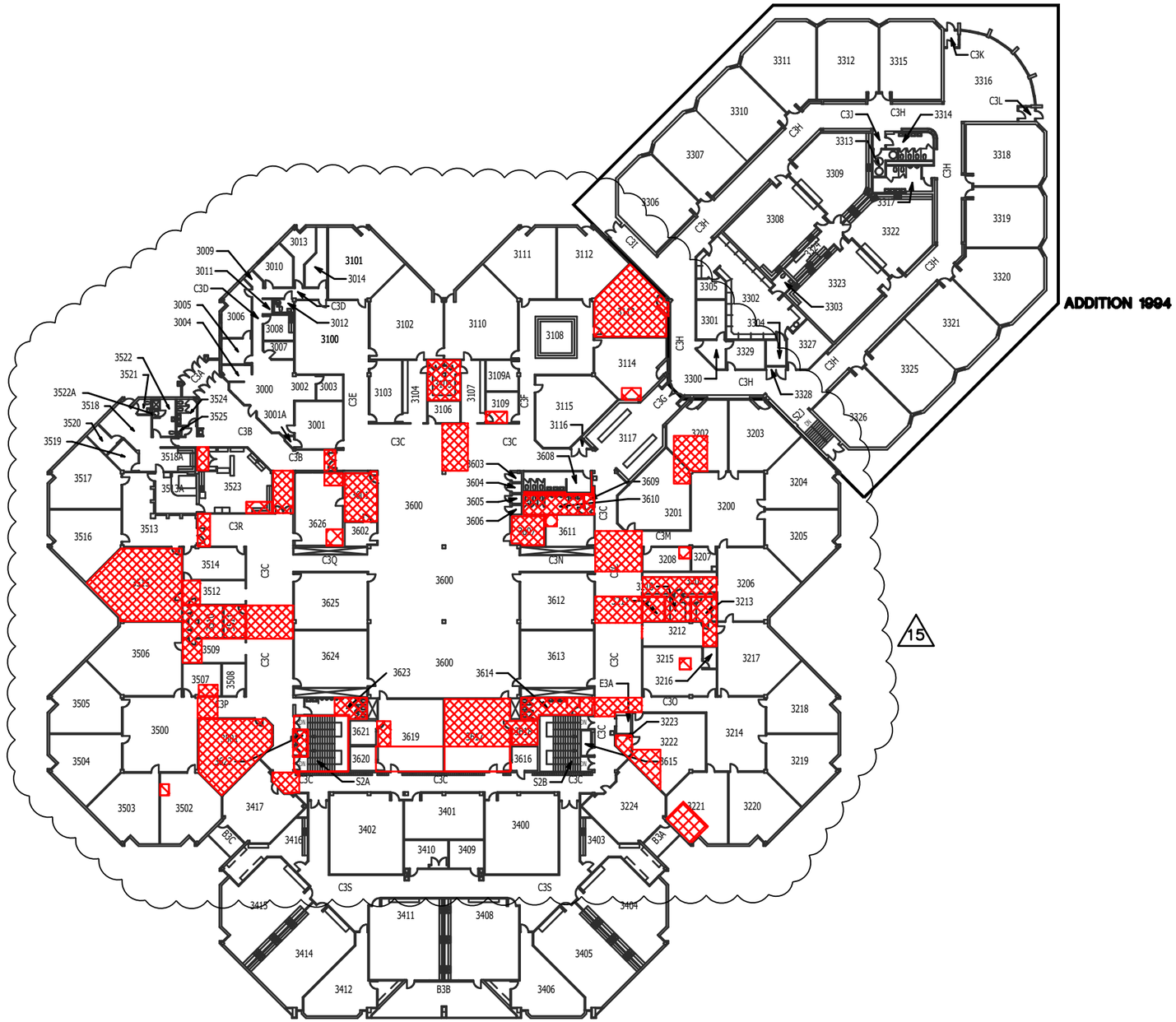
FEET

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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – THERMAL SYSTEM INSULATION
WEST MIDDLE SCHOOL – SECOND LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
DRB	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 09–01–21	REV: 12	A2–02



LEGEND

APPROXIMATE LOCATION OF TSI FITTINGS HOMOGENEOUS MATERIALS #11, #12, #13, #14, #15 & #16

APPROXIMATE LOCATION OF TSI FITTING PRESUMED TO BE IN PIPE CHASE HOMOGENEOUS MATERIALS #11, #12 & #13

NOTES:
1. The drawing for this material, originally produced by NPN Environmental for P.S.D.
2. Revisions 1–9 prepared by PSC Industrial Outsourcing, LP.

N

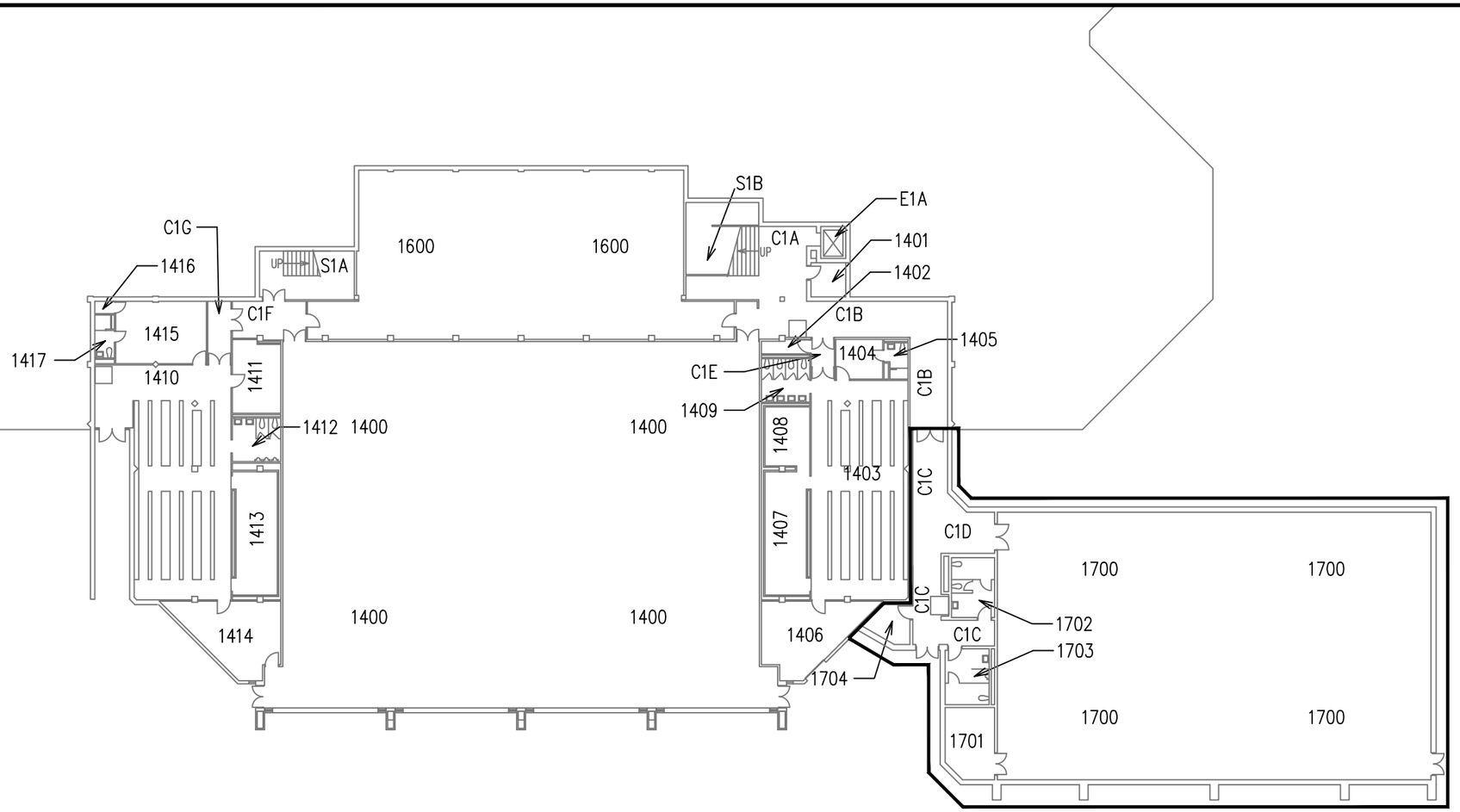
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FEET

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TITLE:
ASBESTOS – THERMAL SYSTEM INSULATION
WEST MIDDLE SCHOOL – THIRD LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 09–01–21	REV: 15	A2–03



ADDITION 2000

NOTES:
1. The drawing for this material originally produced by NPN Environmental for P.S.D.
2. Locations of ACM material are approximate.

2 3. Revision 1 prepared by PSC Industrial Outsourcing, LP.

N

0 30

FEET

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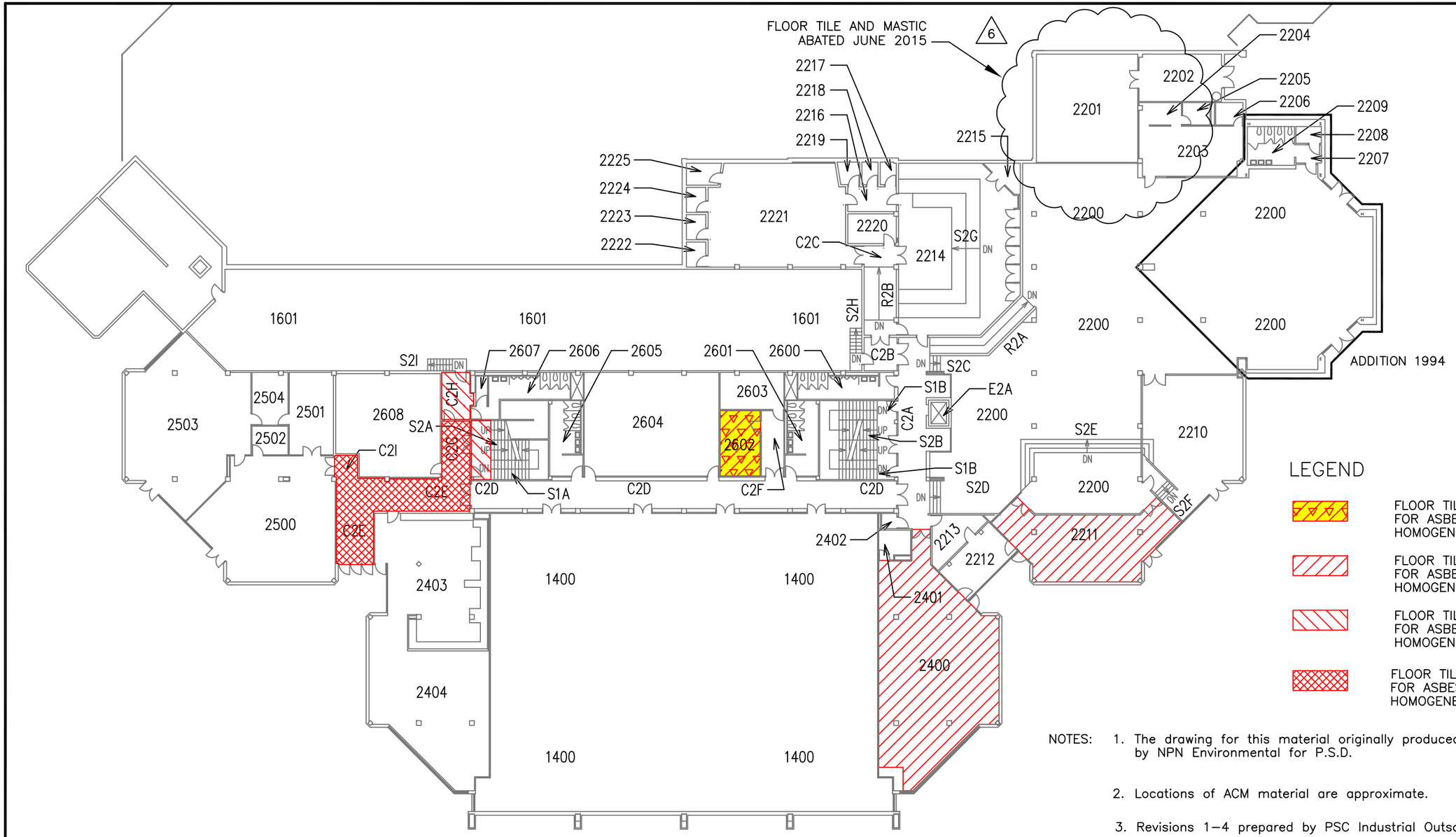
TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – FLOORING
WEST MIDDLE SCHOOL – FIRST LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
05-08-14	2

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A3-01



ORIGINAL BUILDING BUILT IN 1969

LEGEND

- FLOOR TILE & MASTIC BOTH POSITIVE FOR ASBESTOS – EXPOSED HOMOGENEOUS MATERIAL WM–02
- FLOOR TILE NEGATIVE, MASTIC POSITIVE FOR ASBESTOS – EXPOSED HOMOGENEOUS MATERIAL WM–05
- FLOOR TILE NEGATIVE, MASTIC POSITIVE FOR ASBESTOS – EXPOSED HOMOGENEOUS MATERIAL WM–07
- FLOOR TILE NEGATIVE, MASTIC POSITIVE FOR ASBESTOS – UNDER CARPET HOMOGENEOUS MATERIAL WM–07

NOTES:

1. The drawing for this material originally produced by NPN Environmental for P.S.D.
2. Locations of ACM material are approximate.
3. Revisions 1–4 prepared by PSC Industrial Outsourcing, LP.

N

0 30

FEET

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

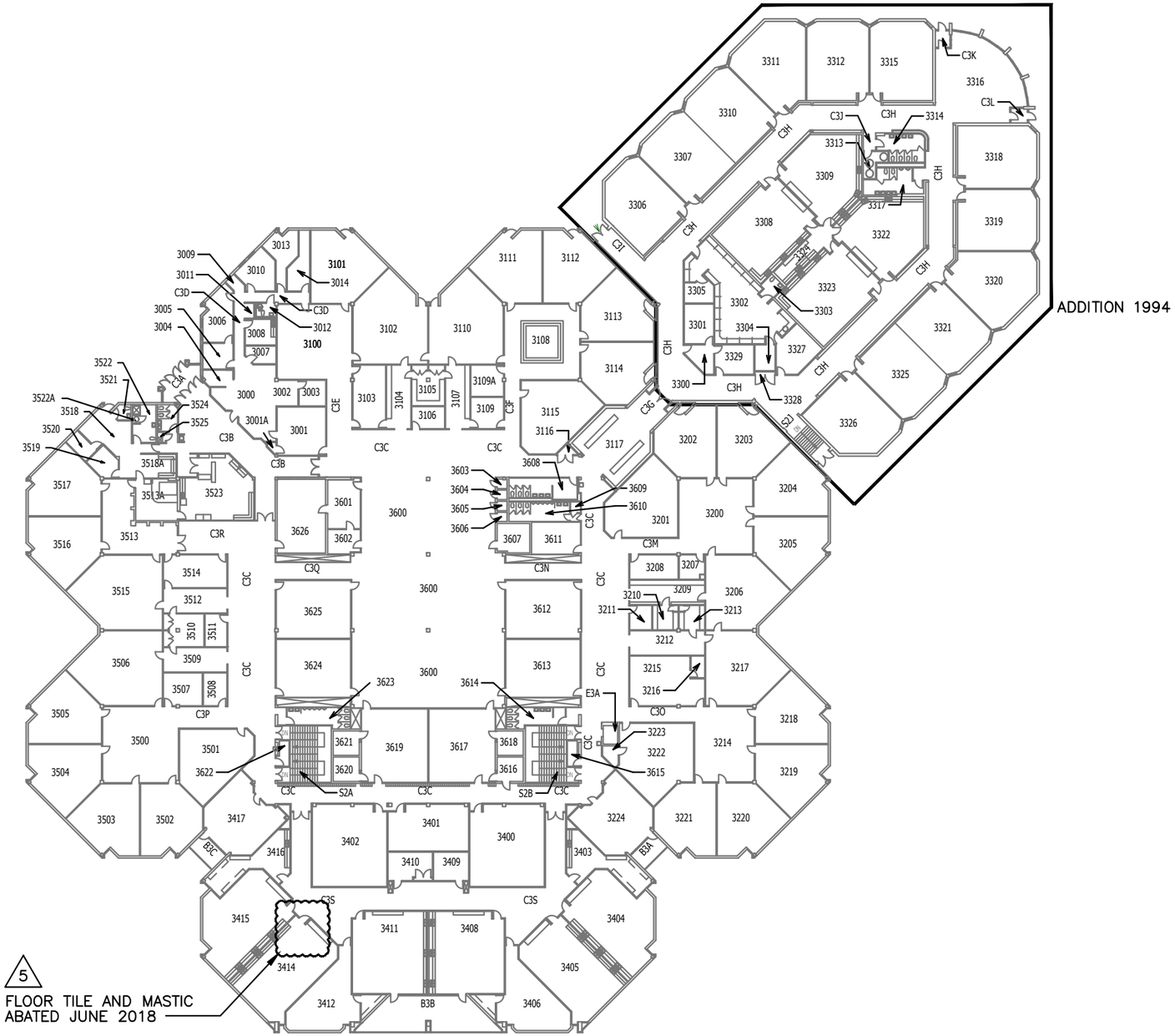
ASBESTOS – MISCELLANEOUS MATERIAL – FLOORING
WEST MIDDLE SCHOOL – SECOND LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: DRB	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 08–10–15	REV: 6

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A3–02



LEGEND

FLOOR TILE & MASTIC BOTH POSITIVE FOR ASBESTOS – EXPOSED HOMOGENEOUS MATERIAL WM–02

NOTES:

1. The drawing for this material originally produced by NPN Environmental for P.S.D.
2. Locations of ACM material are approximate.
3. Revisions 1–3 prepared by PSC Industrial Outsourcing, LP.

N

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FEET

psi Information To Build On
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

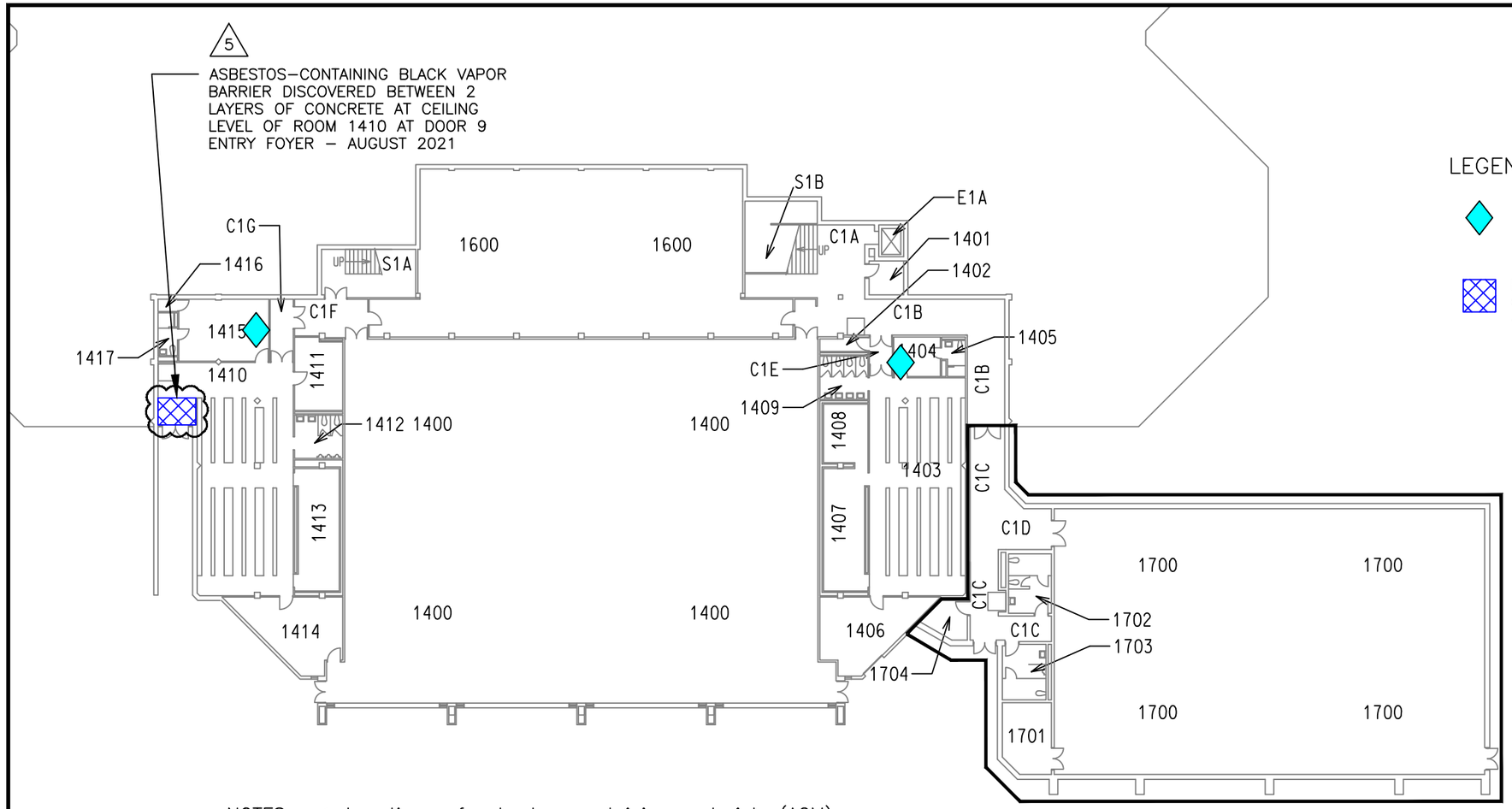
ASBESTOS – MISCELLANEOUS MATERIAL – FLOORING
WEST MIDDLE SCHOOL – THIRD LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
08–21–18	5

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A3–03



ADDITION 2000

LEGEND

MASTIC/SEALANT ON CLOCK/INTERCOM ASSEMBLY HOMOGENEOUS MATERIAL WM–38 POSITIVE FOR ASBESTOS

BLACK VAPOR BARRIER BETWEEN 2 LAYERS OF CONCRETE – HOMOGENEOUS MATERIAL WM–152 – POSITIVE FOR ASBESTOS.

NOTES:

1. Locations of asbestos–containing materials (ACM) are approximate.
2. All solid core, metal or wooden doors, are assumed to be Asbestos–Containing unless noted otherwise. Homogeneous Material #21.
3. All chalkboards, metal or slate, are assumed to have an Asbestos–Containing mastic behind them. Homogeneous Material #33.
4. All bulletin boards are assumed to have an Asbestos–Containing mastic behind them. Homogeneous Material #41.
5. All mirrors are assumed to have an Asbestos–Containing mastic behind them.
6. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.

N

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FEET

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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

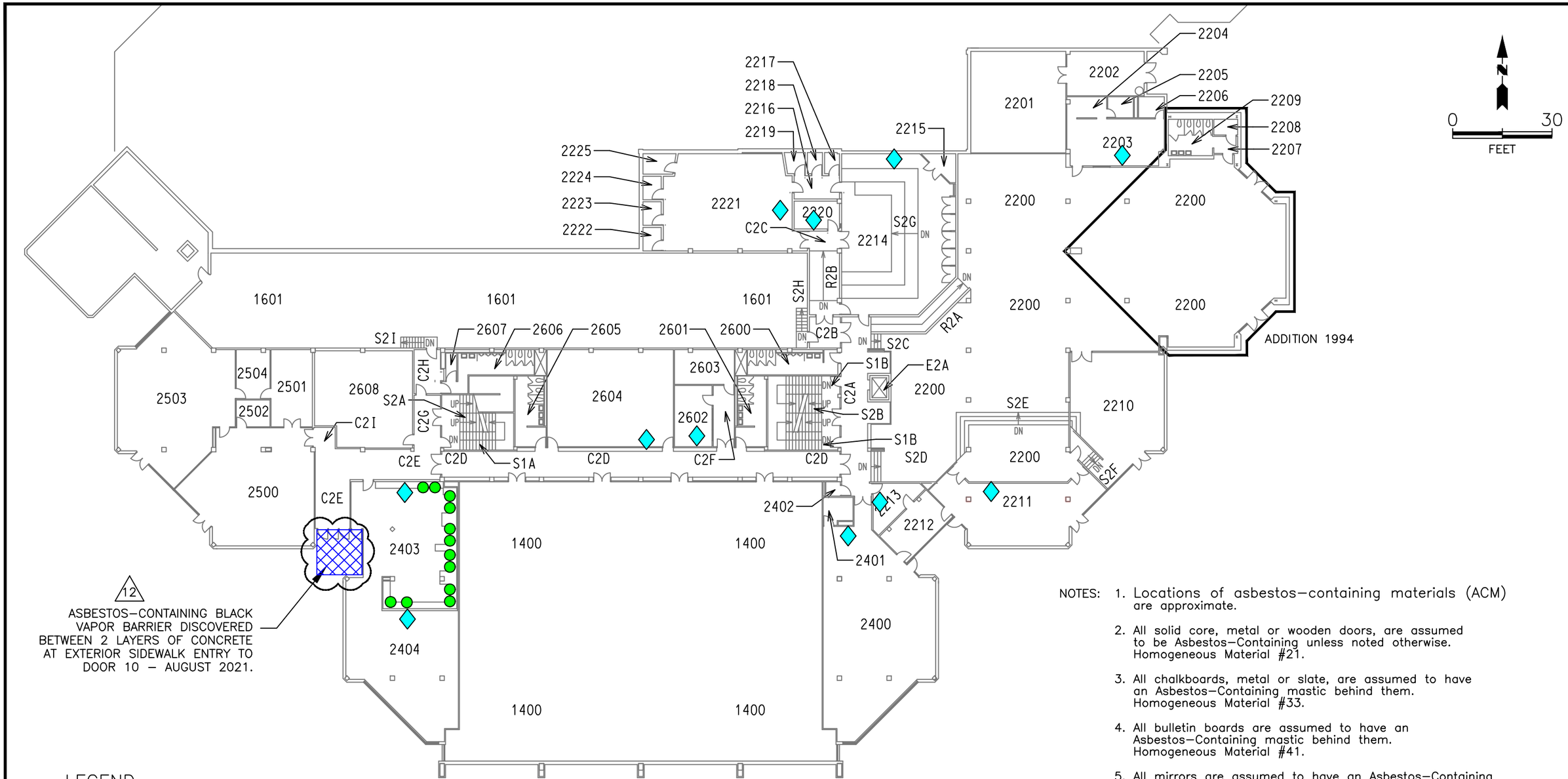
ASBESTOS – MISCELLANEOUS MATERIAL – OTHER
WEST MIDDLE SCHOOL – FIRST LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
09–01–21	5

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A4–01



NOTES:

1. Locations of asbestos–containing materials (ACM) are approximate.
2. All solid core, metal or wooden doors, are assumed to be Asbestos–Containing unless noted otherwise. Homogeneous Material #21.
3. All chalkboards, metal or slate, are assumed to have an Asbestos–Containing mastic behind them. Homogeneous Material #33.
4. All bulletin boards are assumed to have an Asbestos–Containing mastic behind them. Homogeneous Material #41.
5. All mirrors are assumed to have an Asbestos–Containing mastic behind them.
6. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.

LEGEND

- WM–08 PINK SINK LINERS POSITIVE FOR ASBESTOS
- MASTIC/SEALANT ON CLOCK/INTERCOM ASSEMBLY HOMOGENEOUS MATERIALS WM–38 POSITIVE FOR ASBESTOS
- BLACK VAPOR BARRIER BETWEEN 2 LAYERS OF CONCRETE – HOMOGENEOUS MATERIAL – WM–152 – POSITIVE FOR ASBESTOS.

psi Information To Build On
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

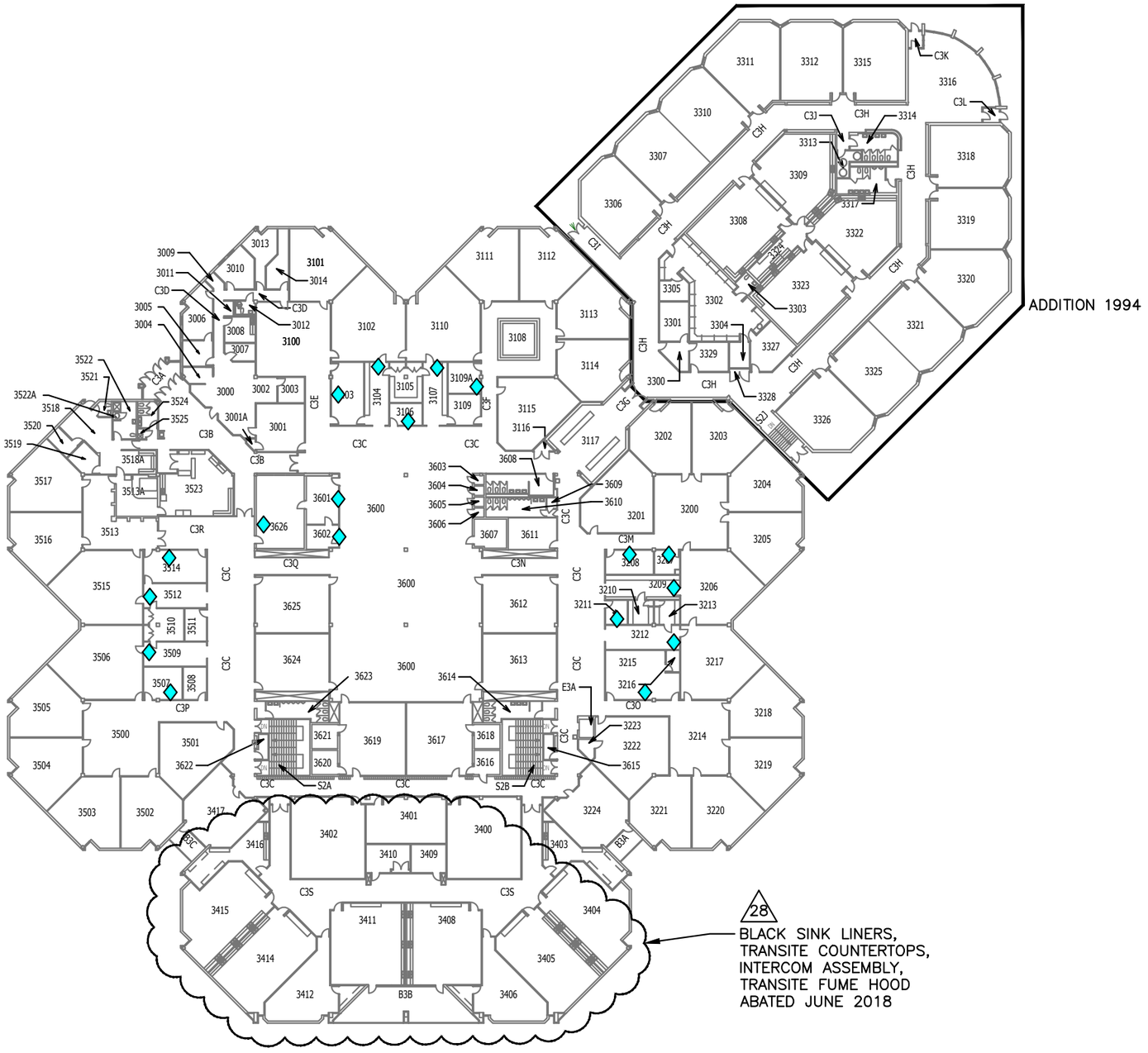
ASBESTOS – MISCELLANEOUS MATERIAL – OTHER
WEST MIDDLE SCHOOL – SECOND LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:
DRB	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
09–01–21	12

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A4–02



LEGEND

- WM–01 BLACK SINK LINERS ON STAINLESS STELL SINKS POSITIVE FOR ASBESTOS
- WM–20 TRANSITE TABLES/COUNTERTOPS ASSUMED TO CONTAIN ASBESTOS
- MASTIC/SEALANT ON CLOCK/INTERCOM ASSEMBLY HOMOGENEOUS MATERIAL WM–38 POSITIVE FOR ASBESTOS
- WM–42 TRANSITE FUME HOOD ASSUMED TO CONTAIN ASBESTOS

NOTES:

1. Locations of asbestos–containing materials (ACM) are approximate.
2. All solid core, metal or wooden doors, are assumed to be Asbestos–Containing unless noted otherwise. Homogeneous Material #21.
3. All chalkboards, metal or slate, are assumed to have an Asbestos–Containing mastic behind them. Homogeneous Material #33.
4. All bulletin boards are assumed to have an Asbestos–Containing mastic behind them. Homogeneous Material #41.
5. All mirrors are assumed to have an Asbestos–Containing mastic behind them.
6. Consult with Parkway Environmental Department prior to drilling into or demolishing concrete block walls.

N

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FEET

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Tel (314) 432-8073 Fax (314) 432-5119

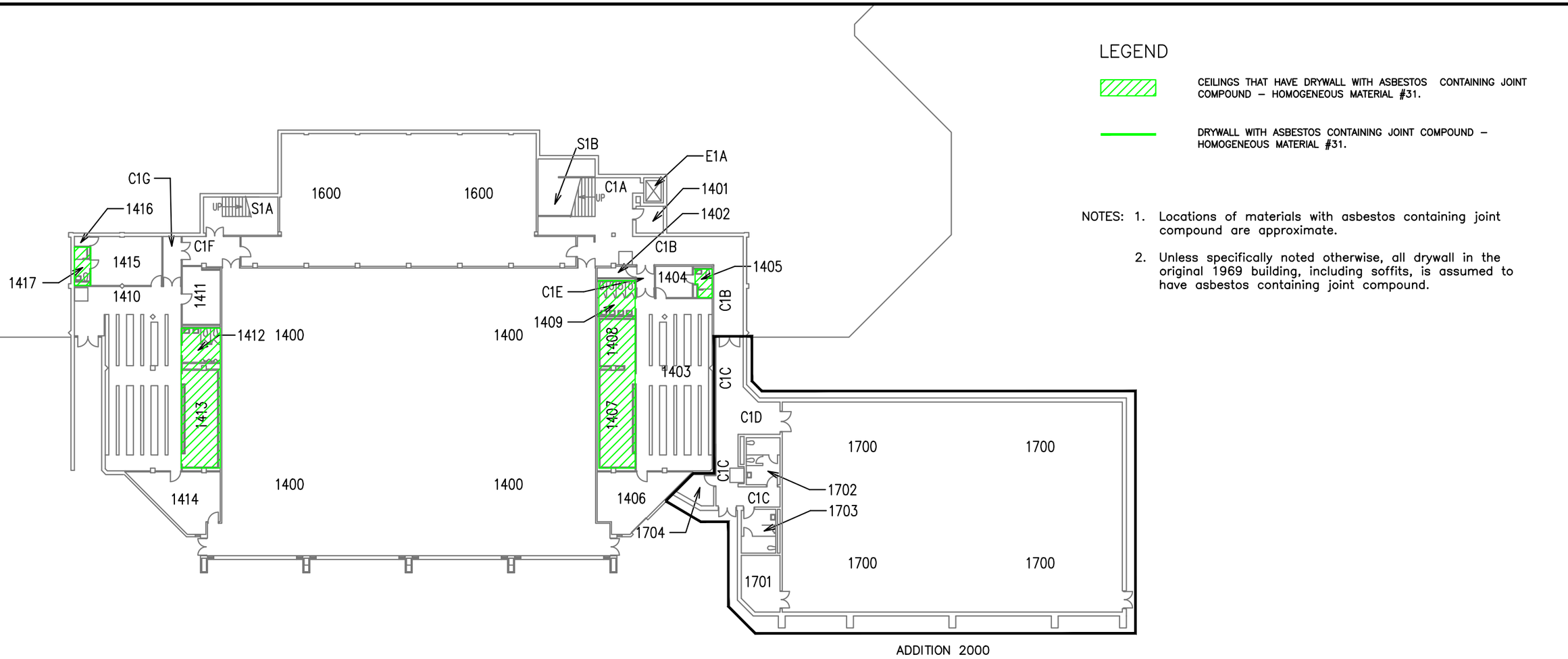
TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – OTHER
WEST MIDDLE SCHOOL – THIRD LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
08–21–18	28

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A4–03



LEGEND

CEILINGS THAT HAVE DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #31.

DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #31.

NOTES:
1. Locations of materials with asbestos containing joint compound are approximate.
2. Unless specifically noted otherwise, all drywall in the original 1969 building, including soffits, is assumed to have asbestos containing joint compound.

N

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FEET

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Tel (314) 432-8073 Fax (314) 432-5119

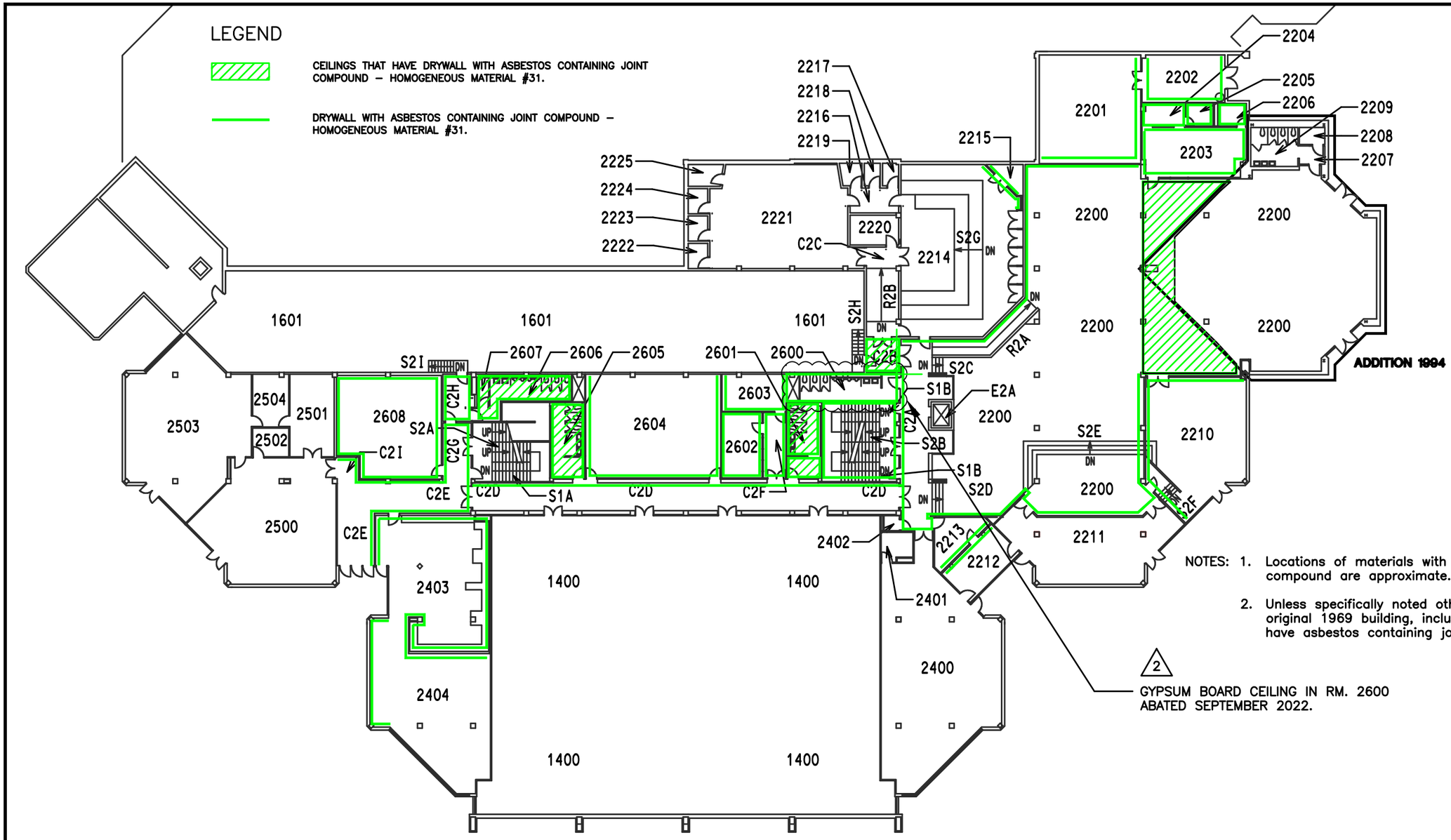
TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – JOINT COMPOUND
WEST MIDDLE SCHOOL – FIRST LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 11-27-17	REV: 1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A5-01



intertek psi Information To Build On
Engineering • Consulting • Testing
11826 Borman Dr. Maryland Heights, MO 63146
Tel (314) 432-8073 Fax (314) 432-5119

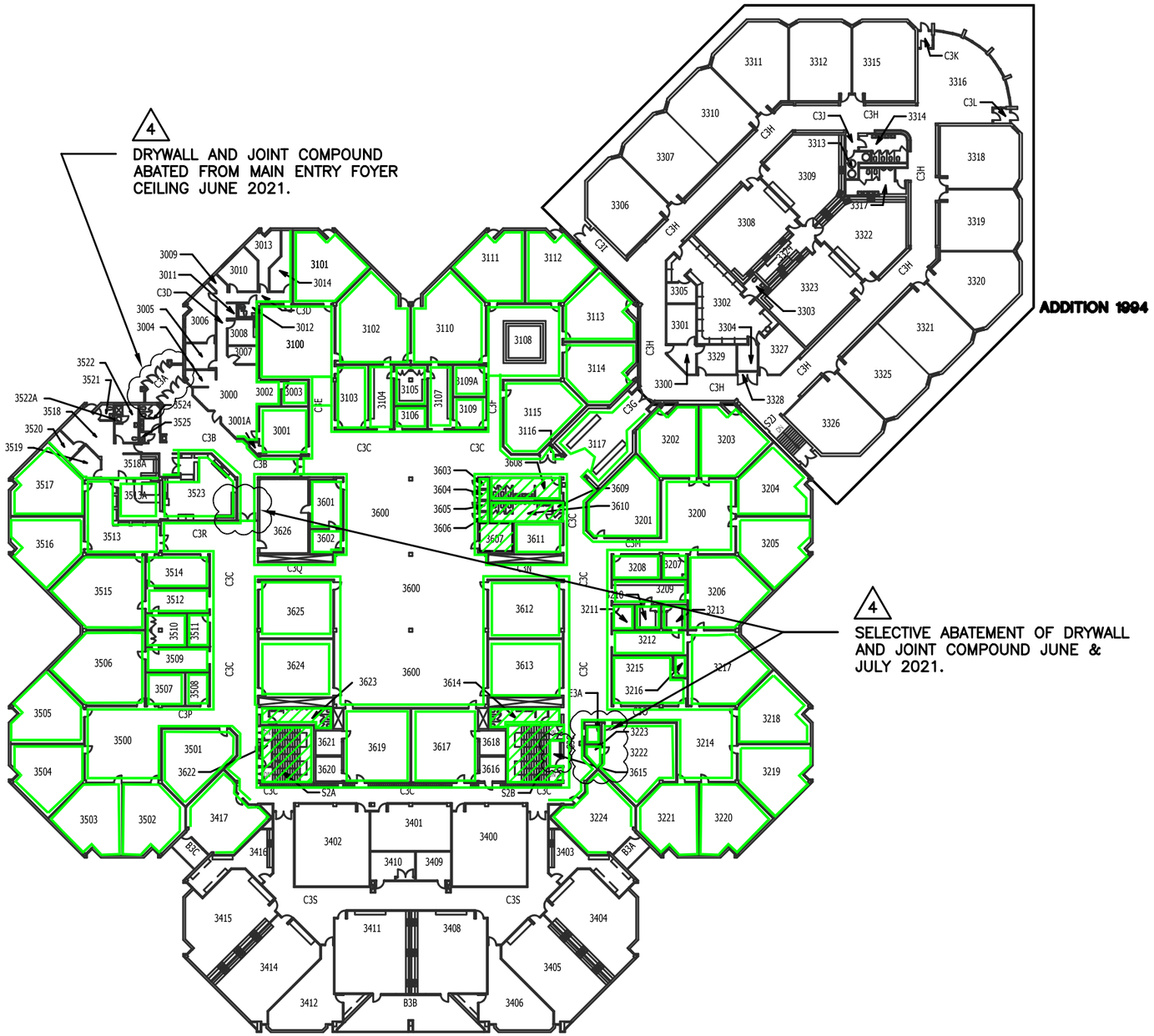
TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – JOINT COMPOUND
WEST MIDDLE SCHOOL – SECOND LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: DRB	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 11–03–22	REV: 2

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A5–02



LEGEND

CEILINGS THAT HAVE DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #31.

DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #31.

NOTES:
1. Locations of materials with asbestos containing joint compound are approximate.
2. Unless specifically noted otherwise, all drywall in the original 1969 building, including soffits, is assumed to have asbestos containing joint compound.

N

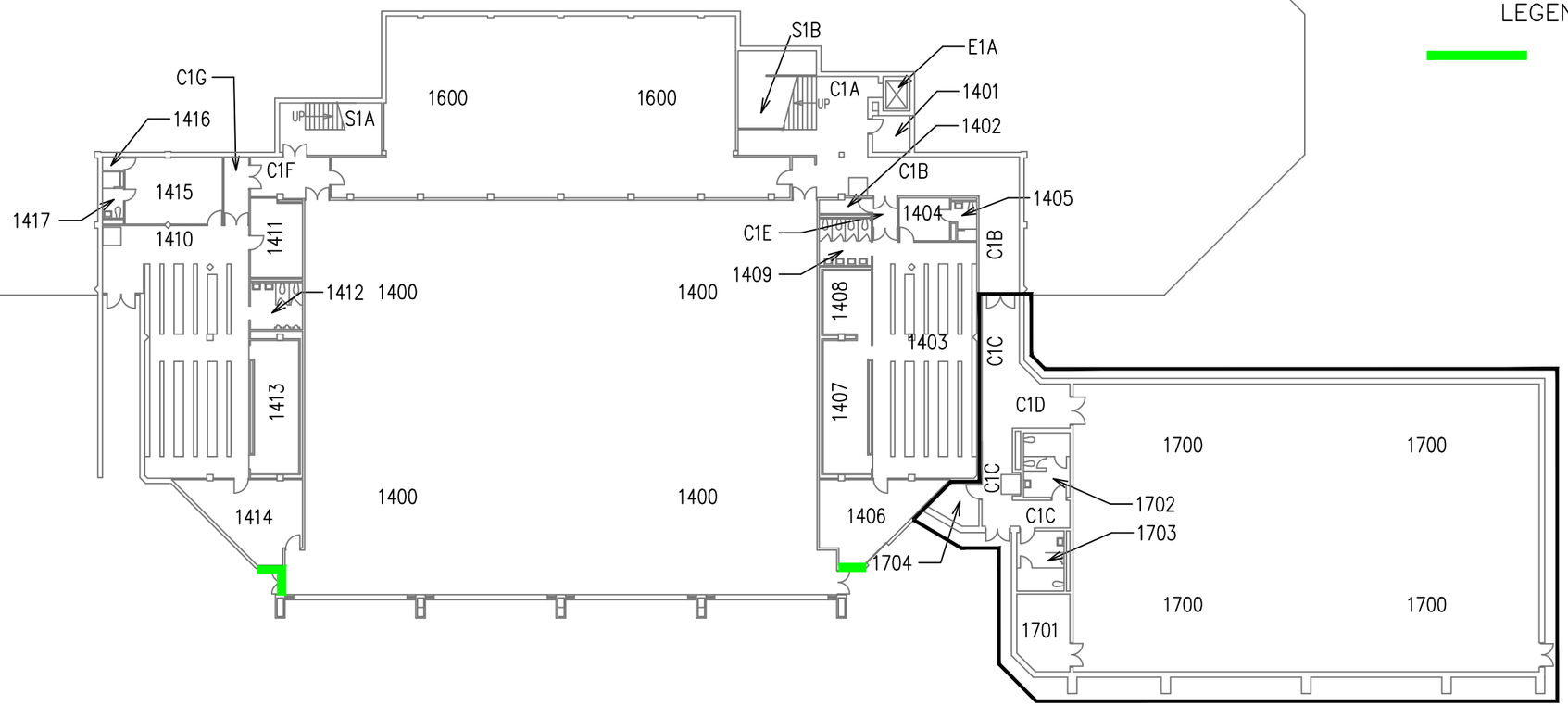
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FEET

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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – MISCELLANEOUS MATERIAL – JOINT COMPOUND
WEST MIDDLE SCHOOL – THIRD LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 09-01-21	REV: 4	A5-03



ADDITION 2000

LEGEND

LOUVER CAULK – HOMOGENEOUS MATERIAL
WM–81 POSITIVE FOR ASBESTOS.

NOTES: 1. Locations of ACM material are approximate.

N

0 30

FEET

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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

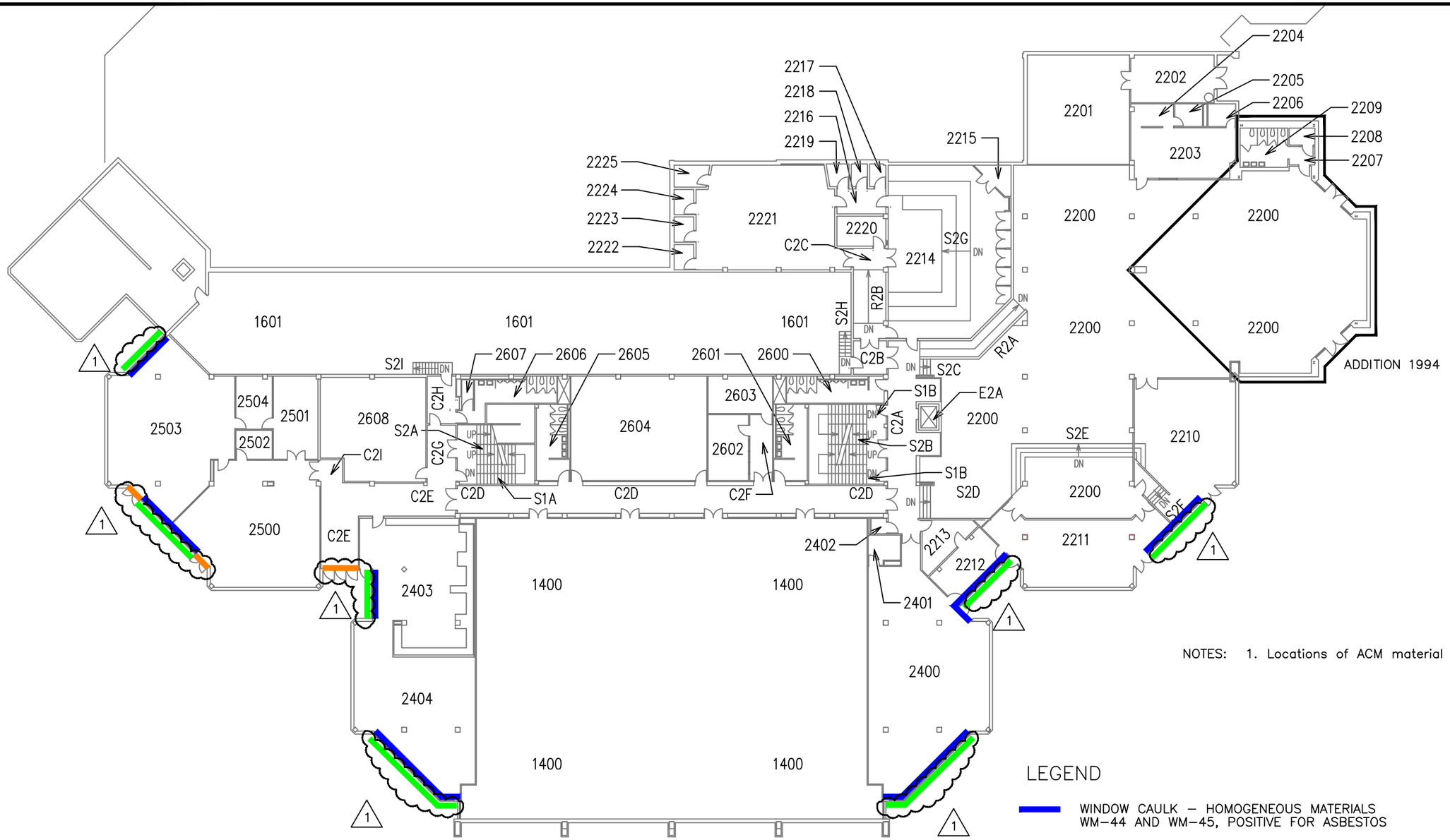
ASBESTOS – MISCELLANEOUS MATERIAL – CAULK
WEST MIDDLE SCHOOL – FIRST LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 02–06–17	REV: 0

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A8–01



ORIGINAL BUILDING BUILT IN 1969

NOTES: 1. Locations of ACM material are approximate.

LEGEND

- WINDOW CAULK – HOMOGENEOUS MATERIALS WM–44 AND WM–45, POSITIVE FOR ASBESTOS
- DOOR FRAME CAULK – HOMOGENEOUS MATERIALS WM–79, POSITIVE FOR ASBESTOS.
- WINDOW GLAZING – HOMOGENEOUS MATERIALS WM–43 AND WM–47, POSITIVE FOR ASBESTOS.

N

0 30

FEET

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

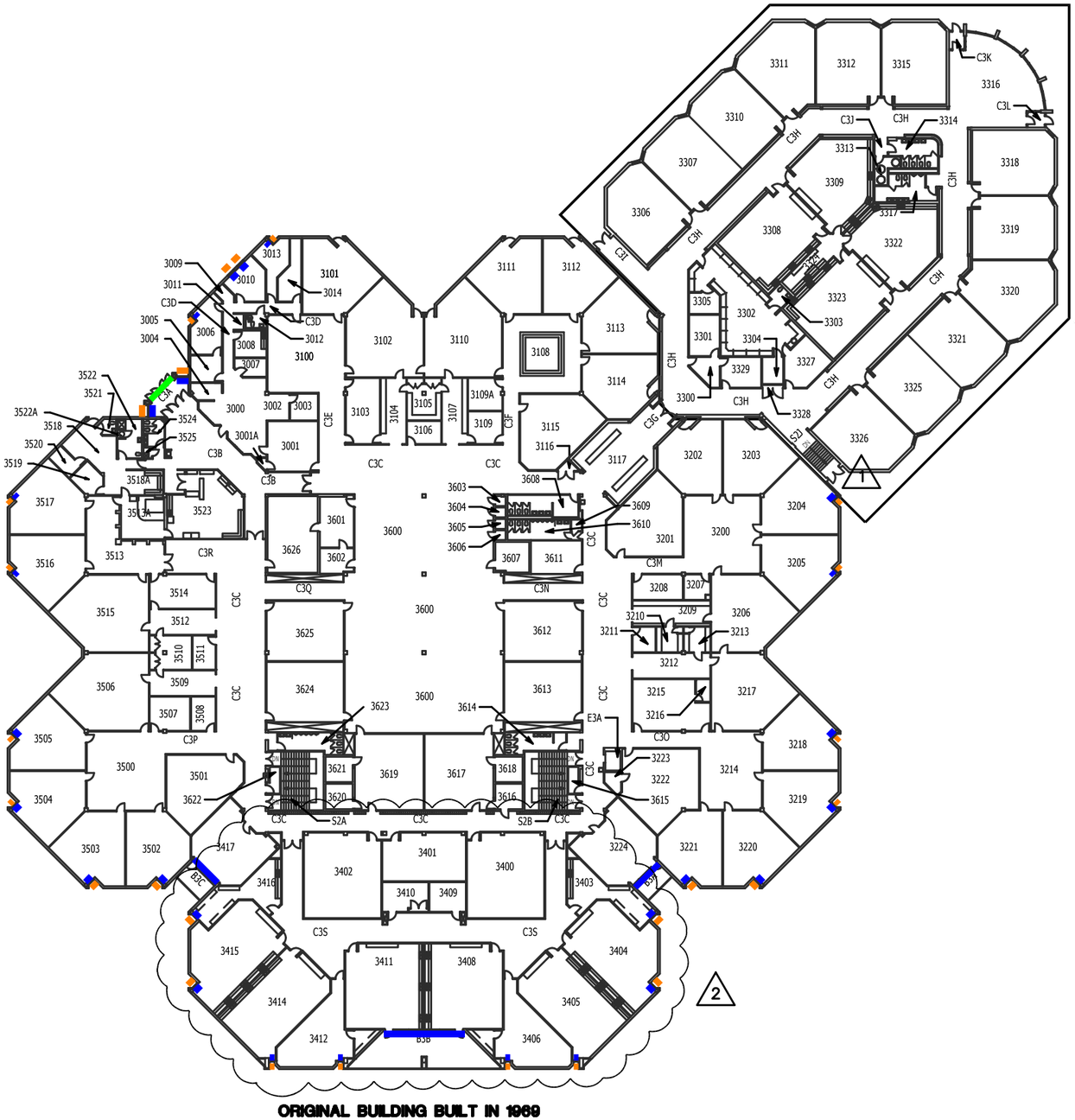
ASBESTOS – MISCELLANEOUS MATERIAL – CAULK
WEST MIDDLE SCHOOL – SECOND LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:
DRB	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
02–06–17	1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

A8–02



LEGEND

- WINDOW CAULK – HOMOGENEOUS MATERIALS WM–44 AND WM–45, POSITIVE FOR ASBESTOS
- WINDOW GLAZING – HOMOGENEOUS MATERIALS WM–43 AND WM–47, POSITIVE FOR ASBESTOS
- DOOR FRAME CAULK – HOMOGENEOUS MATERIALS WM–79, POSITIVE FOR ASBESTOS

NOTES: 1. Locations of ACM material are approximate.

N

0 50

FEET

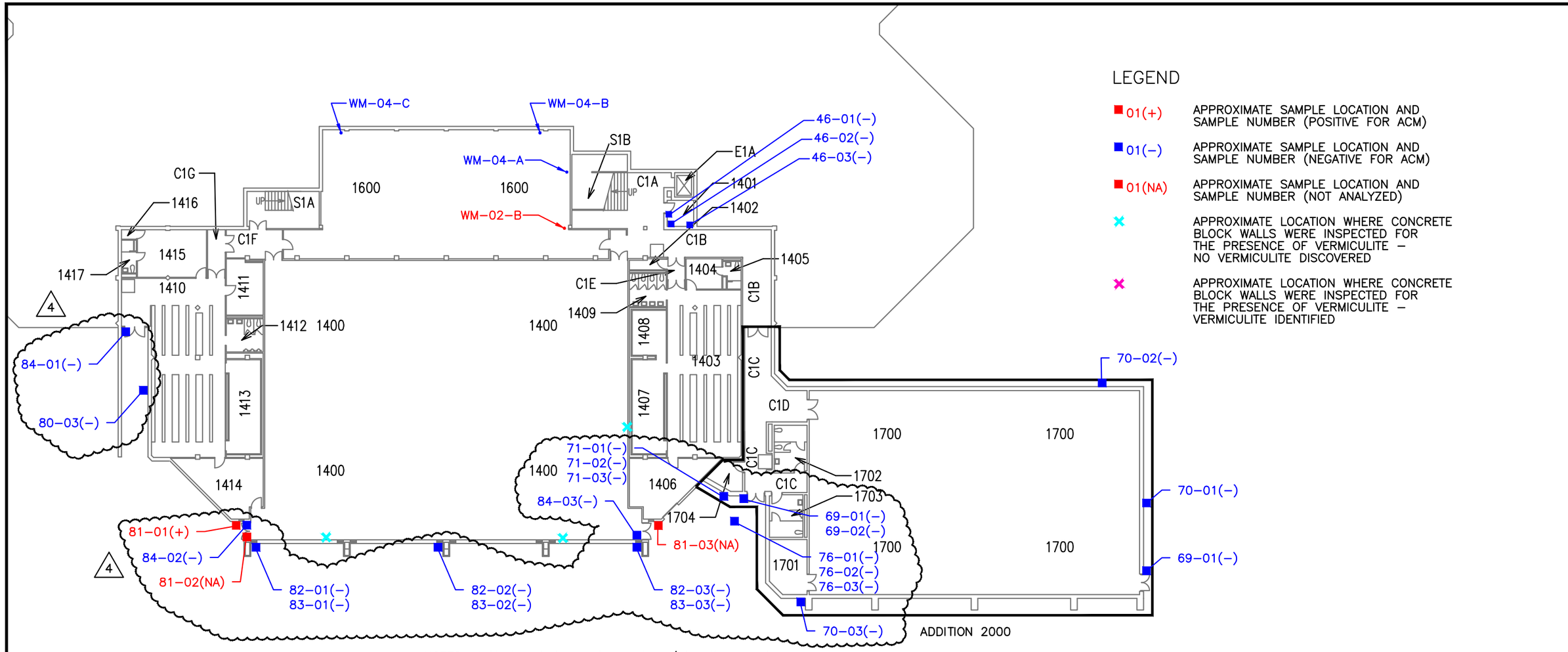
psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

ASBESTOS – MISCELLANEOUS MATERIAL – CAULK
WEST MIDDLE SCHOOL – THIRD LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 04–09–20	REV: 2	A8–03



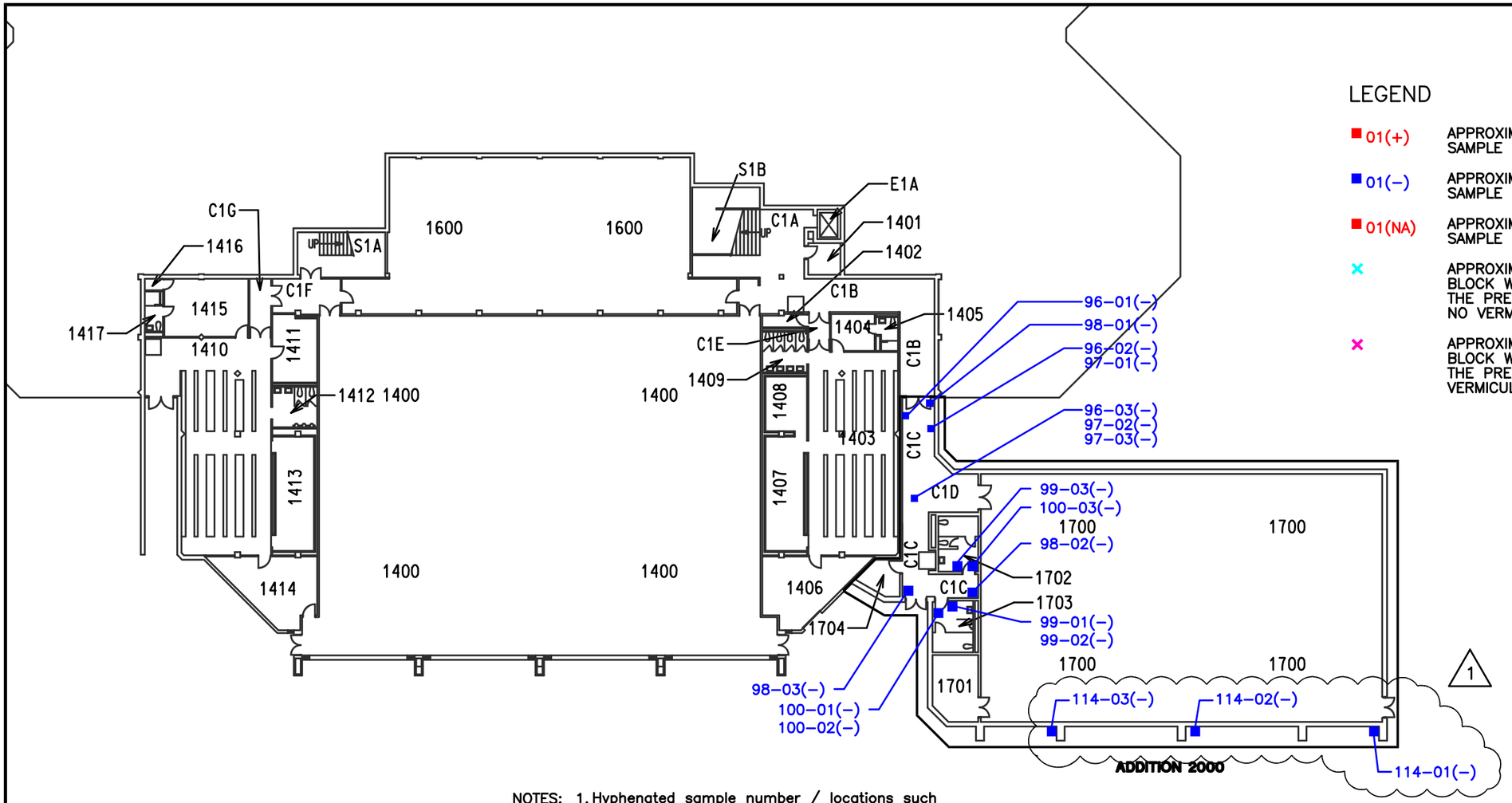
NOTES:
1. Hyphenated sample number / locations such as 38–01 have a prefix "WM" in the analysis report.
2. As part of Parkway's 2012 3–Year re–inspections, PSC randomly inspected exterior concrete block walls of the building erected prior to 1990 for the presence of vermiculite. Exterior concrete block walls behind gypsum board or other finished surfaces were not inspected for the presence of vermiculite. PSC did not inspect interior concrete block walls.
3. Revisions 1 and 2 prepared by PSC Industrial Outsourcing, LP.

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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
WEST MIDDLE SCHOOL – FIRST LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 02–06–17	REV: 4	B1–01



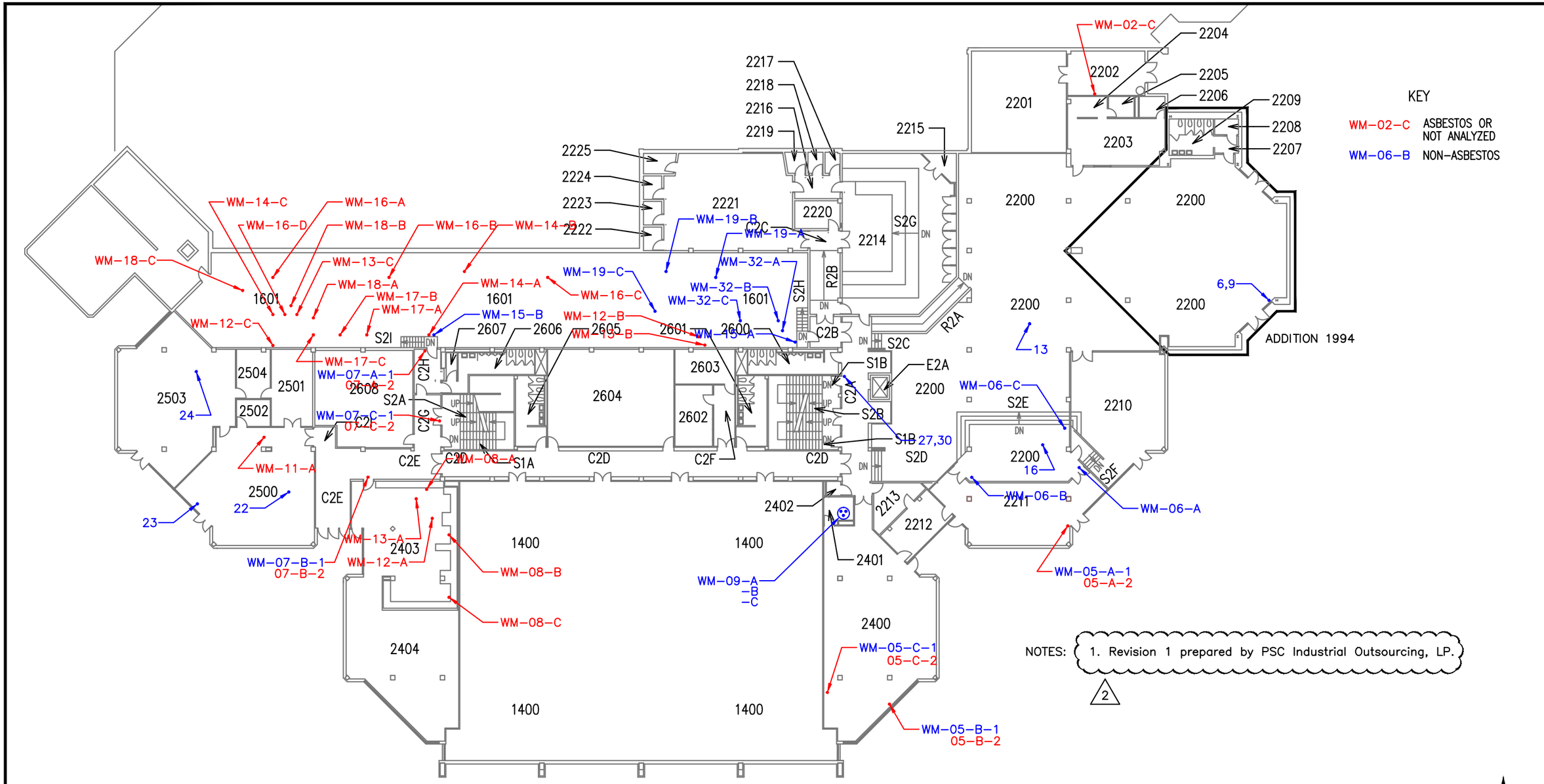
NOTES:
1. Hyphenated sample number / locations such as 38–01 have a prefix "WM" in the analysis report.
2. As part of Parkway's 2012 3–Year re–inspections, PSC randomly inspected exterior concrete block walls of the building erected prior to 1990 for the presence of vermiculite. Exterior concrete block walls behind gypsum board or other finished surfaces were not inspected for the presence of vermiculite. PSC did not inspect interior concrete block walls.
3. Revisions 1 and 2 prepared by PSC Industrial Outsourcing, LP.

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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
WEST MIDDLE SCHOOL – FIRST LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:	PROJECT NO: 00291604
TDA	MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.
CHKD: MCD	APPD: MCD	
DATE: 04–09–20	REV: 1	B1.1–01



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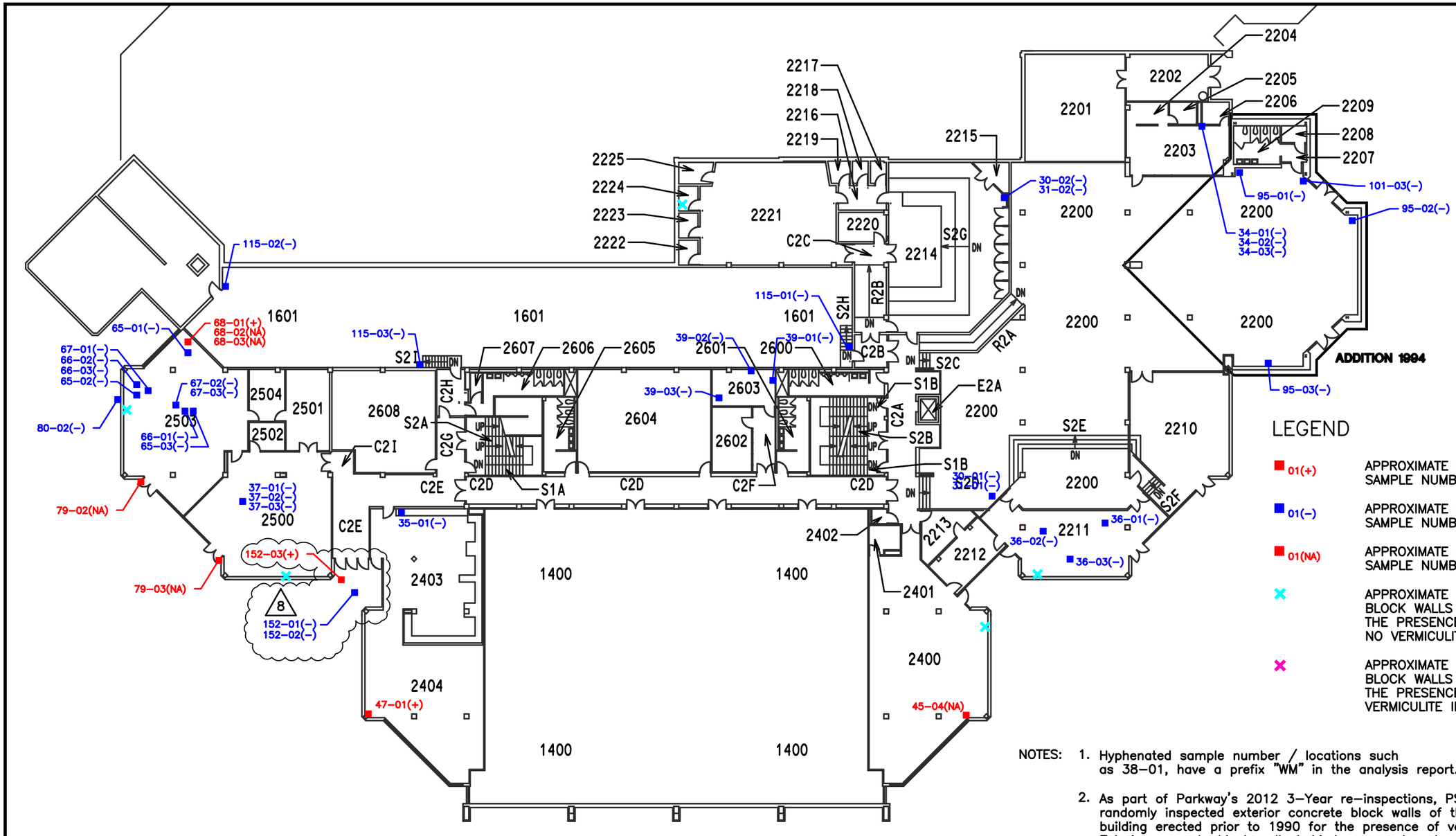
TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
WEST MIDDLE SCHOOL – SECOND LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: DRB	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 05-08-14	REV: 2

PROJECT NO: 00291604
PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

B2-02



ORIGINAL BUILDING BUILT IN 1969

LEGEND

■ 01(+)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
■ 01(-)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
■ 01(NA)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)
×	APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE – NO VERMICULITE DISCOVERED
×	APPROXIMATE LOCATION WHERE CONCRETE BLOCK WALLS WERE INSPECTED FOR THE PRESENCE OF VERMICULITE – VERMICULITE IDENTIFIED

NOTES:

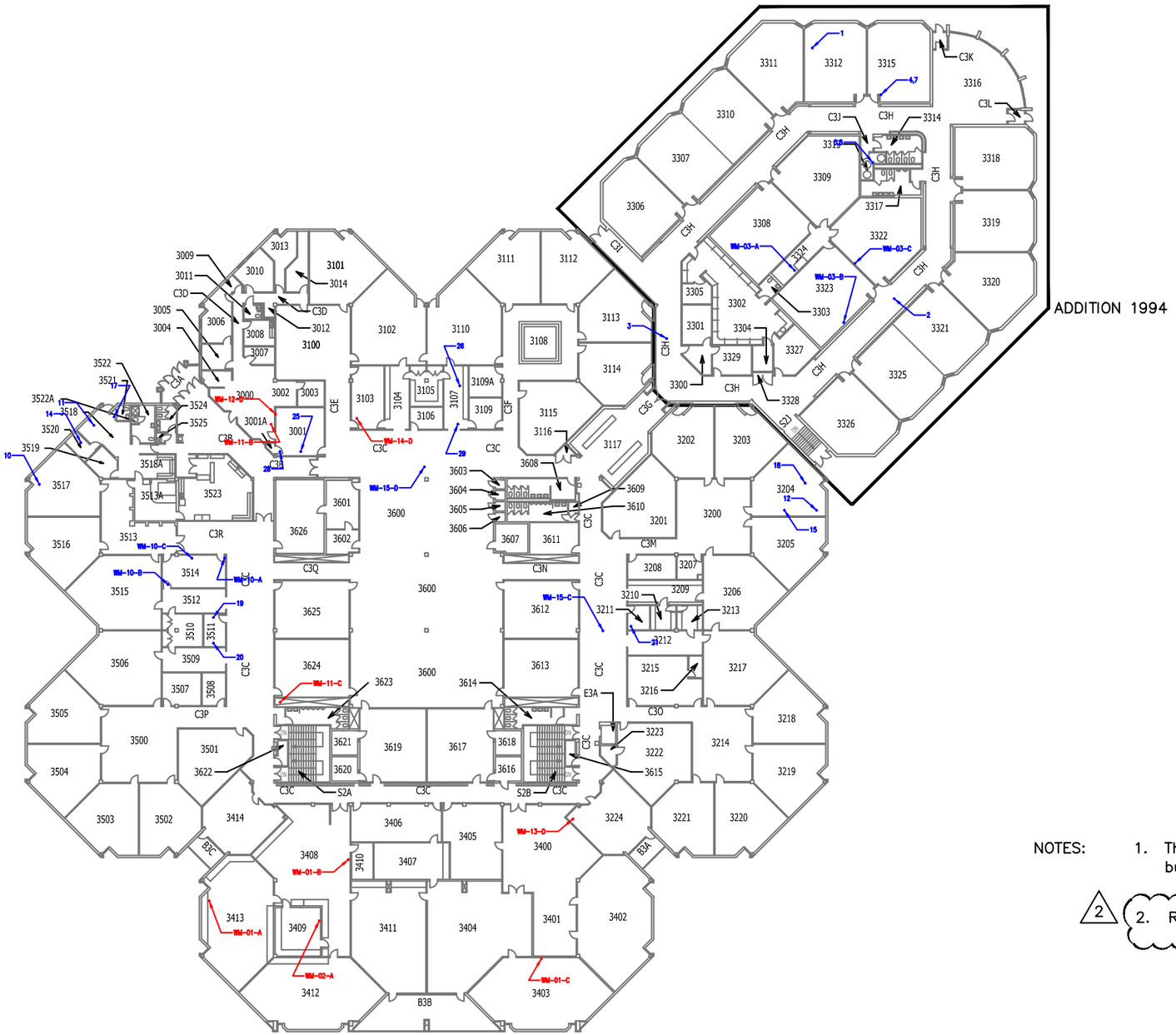
1. Hyphenated sample number / locations such as 38–01, have a prefix "WM" in the analysis report.
2. As part of Parkway's 2012 3–Year re–inspections, PSC randomly inspected exterior concrete block walls of the building erected prior to 1990 for the presence of vermiculite. Exterior concrete block walls behind gypsum board or other finished surfaces were not inspected for the presence of vermiculite. PSC did not inspect interior concrete block walls.
3. Revisions 1 and 2 prepared by PSC Industrial Outsourcing, LP.

psi Information To Build On
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8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – BULK SAMPLE LOCATIONS
WEST MIDDLE SCHOOL – SECOND LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: DRB	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 09–01–21	REV: 8	B2.1–02	



ORIGINAL BUILDING BUILT IN 1969

KEY

WM-01-C ASBESTOS OR NOT ANALYZED

WM-10-A NON-ASBESTOS

NOTES:

1. This drawing shows the locations of bulk samples taken by NPN Environmental.

2. Revision 1 prepared by PSC Industrial Outsourcing, LP.

N

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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

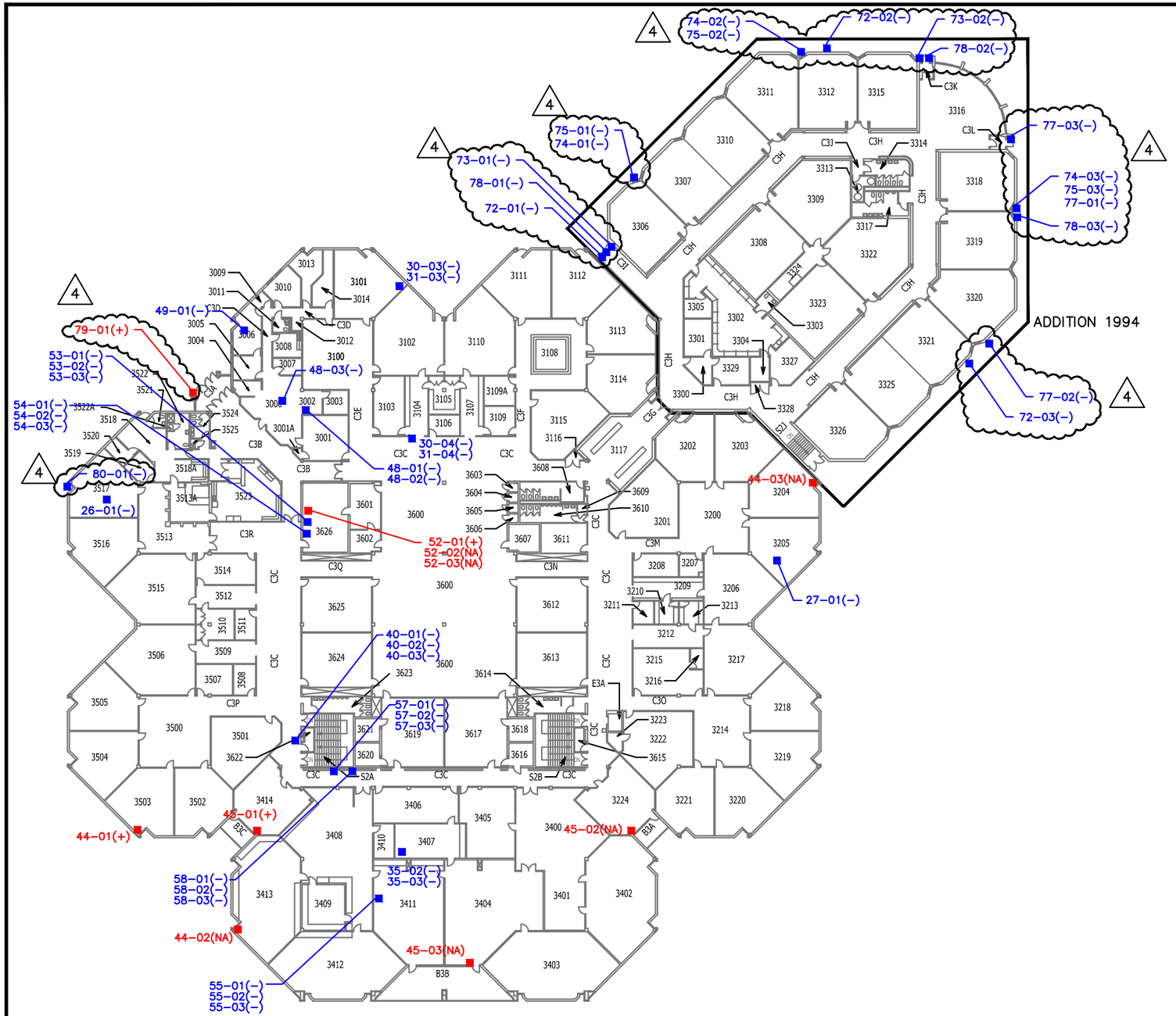
ASBESTOS – BULK SAMPLE LOCATIONS
WEST MIDDLE SCHOOL – THIRD LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 05-08-14	REV: 2

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

B3-03



LEGEND

■ 01(+)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
■ 01(–)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
■ 01(NA)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)

NOTES:

1. Hyphenated sample number / locations such as 38–01, have a prefix "WM" in the analysis report.
2. Revisions 1 and 2 prepared by PSC Industrial Outsourcing, LP.

N

0 50

FEET

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

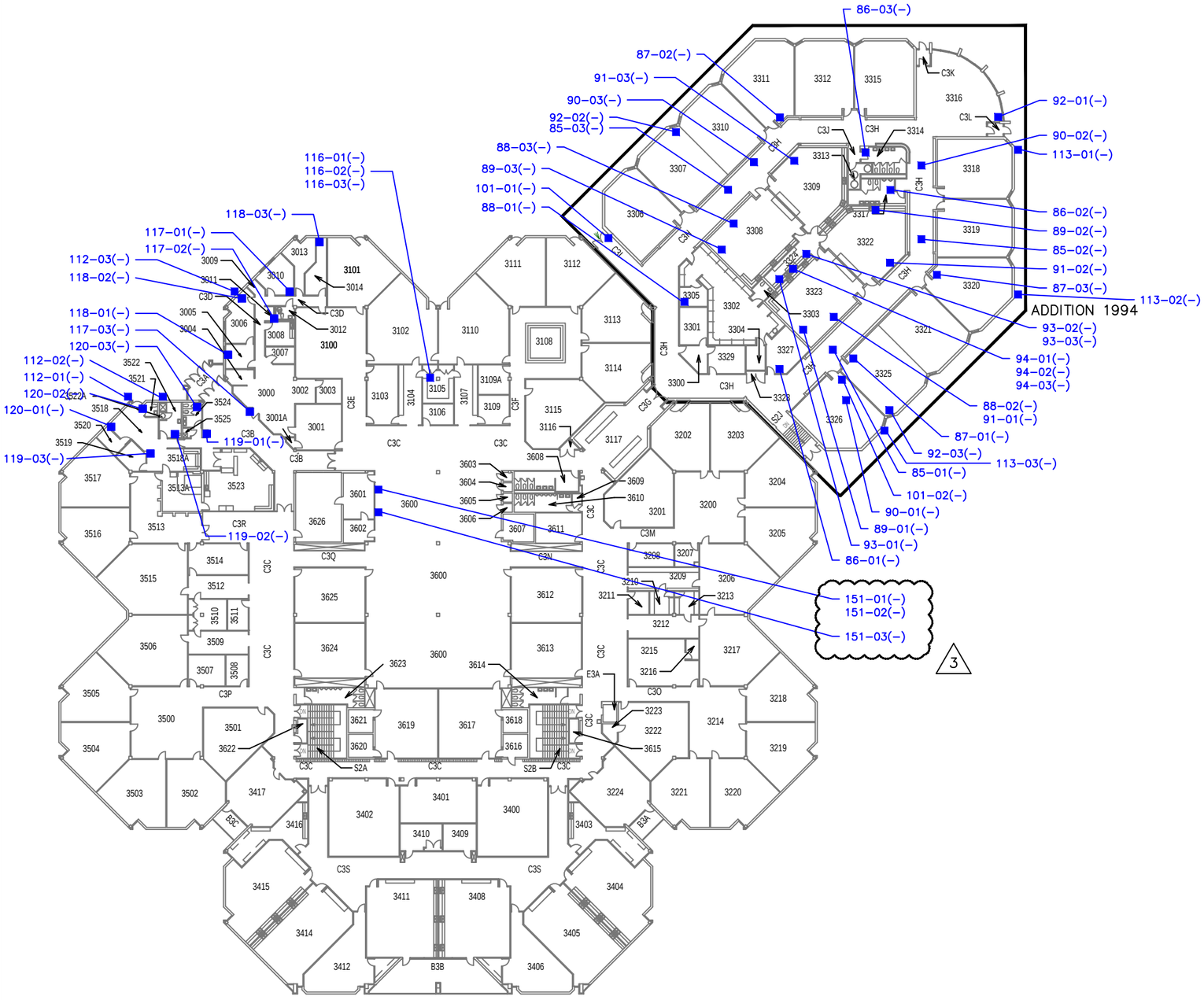
ASBESTOS –BULK SAMPLE LOCATIONS
WEST MIDDLE SCHOOL – THIRD LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 04–04–17	REV: 4

PROJECT NO: 00291604
PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.

B3.1–03



LEGEND

01(+)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
01(–)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
01(NA)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)

NOTES:

1. Hyphenated sample number / locations such as 38–01, have a prefix "WM" in the analysis report.
2. Revisions 1 and 2 prepared by PSC Industrial Outsourcing, LP.

N

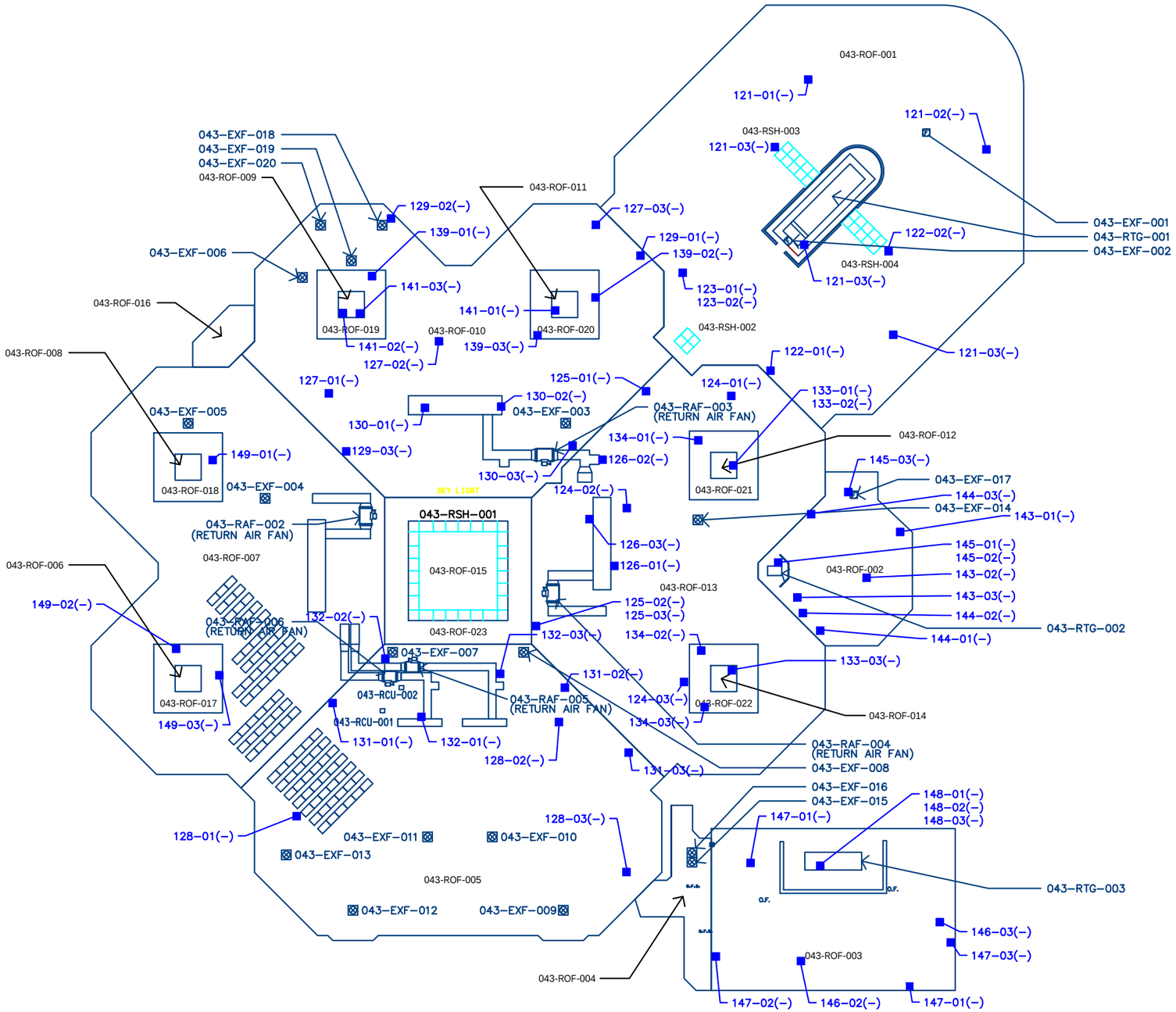
0 50
FEET

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS –BULK SAMPLE LOCATIONS
WEST MIDDLE SCHOOL – THIRD LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 09–01–21	REV: 3	B3.2–03	



LEGEND

01(+)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (POSITIVE FOR ACM)
01(–)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NEGATIVE FOR ACM)
01(NA)	APPROXIMATE SAMPLE LOCATION AND SAMPLE NUMBER (NOT ANALYZED)

NOTES:
1. PSI has not conducted an asbestos survey of all building materials on the roof. This material was added to the management plan after PSD had roofing materials analyzed for asbestos.
2. All samples are preceded with a prefix of "CT–".
3. Locations of ACM material are approximate.

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TITLE:

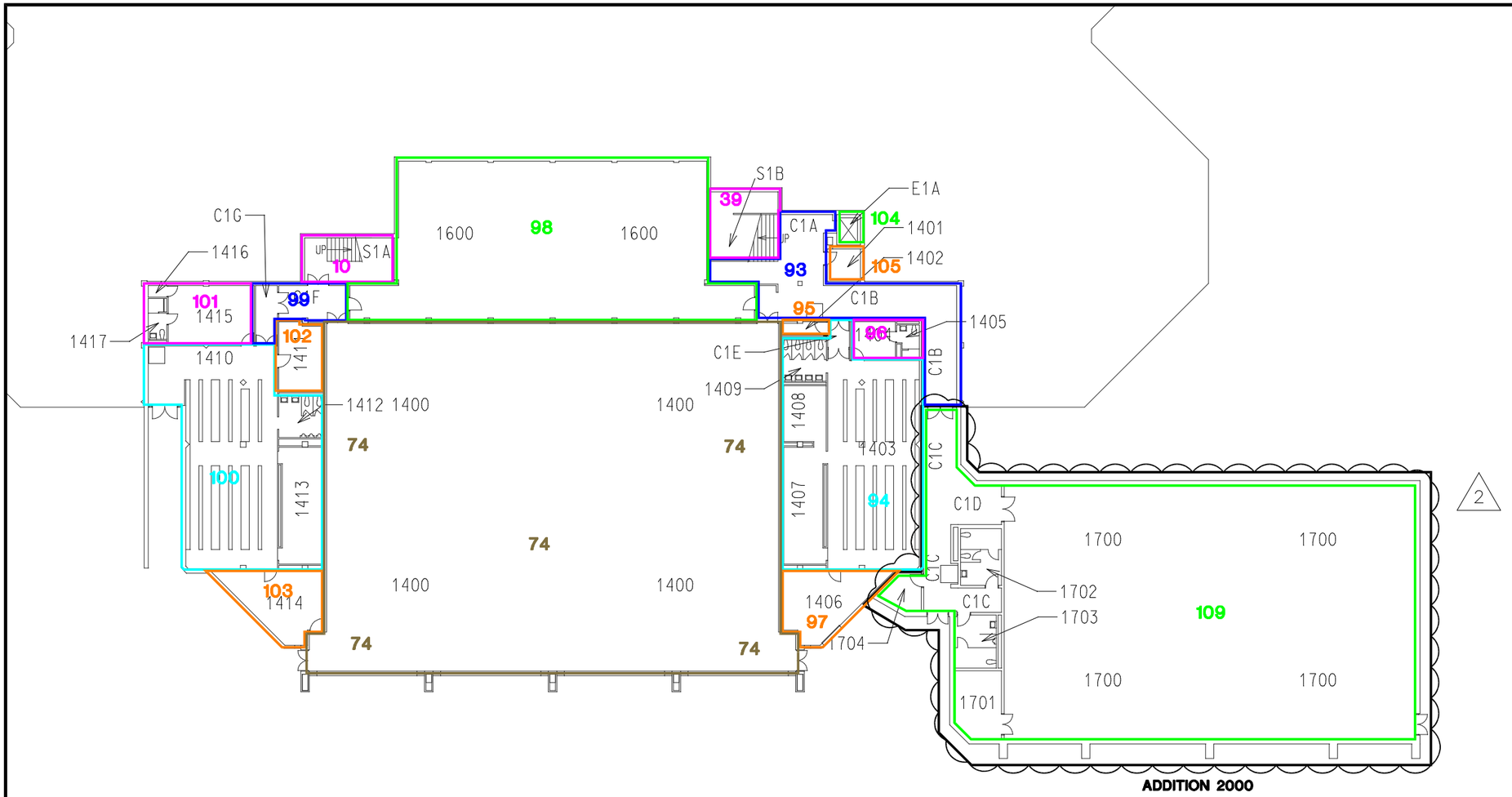
ASBESTOS – BULK SAMPLE LOCATIONS
WEST MIDDLE SCHOOL – ROOF
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 08–17–20	REV: 0

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

B4–ROOF



LEGEND

10	STAIRWELL	97	STORAGE ROOM	104	ELEVATOR
39	STAIRWELL	98	WEIGHT ROOM	105	ELEVATOR HYDRAULIC ROOM
74	GYMNASIUM	99	HALLWAYS/CORRIDORS	109	2000 ADDITION
93	HALLWAYS/CORRIDORS	100	BOYS LOCKER ROOM		
94	GIRLS LOCKER ROOM	101	COACH'S OFFICE		
95	STORAGE ROOM	102	STORAGE ROOM		
96	COACH'S OFFICE	103	STORAGE ROOM		

NOTE:

1. Original drawing prepared by PSC Industrial Outsourcing, LP.

N

0 30

FEET

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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

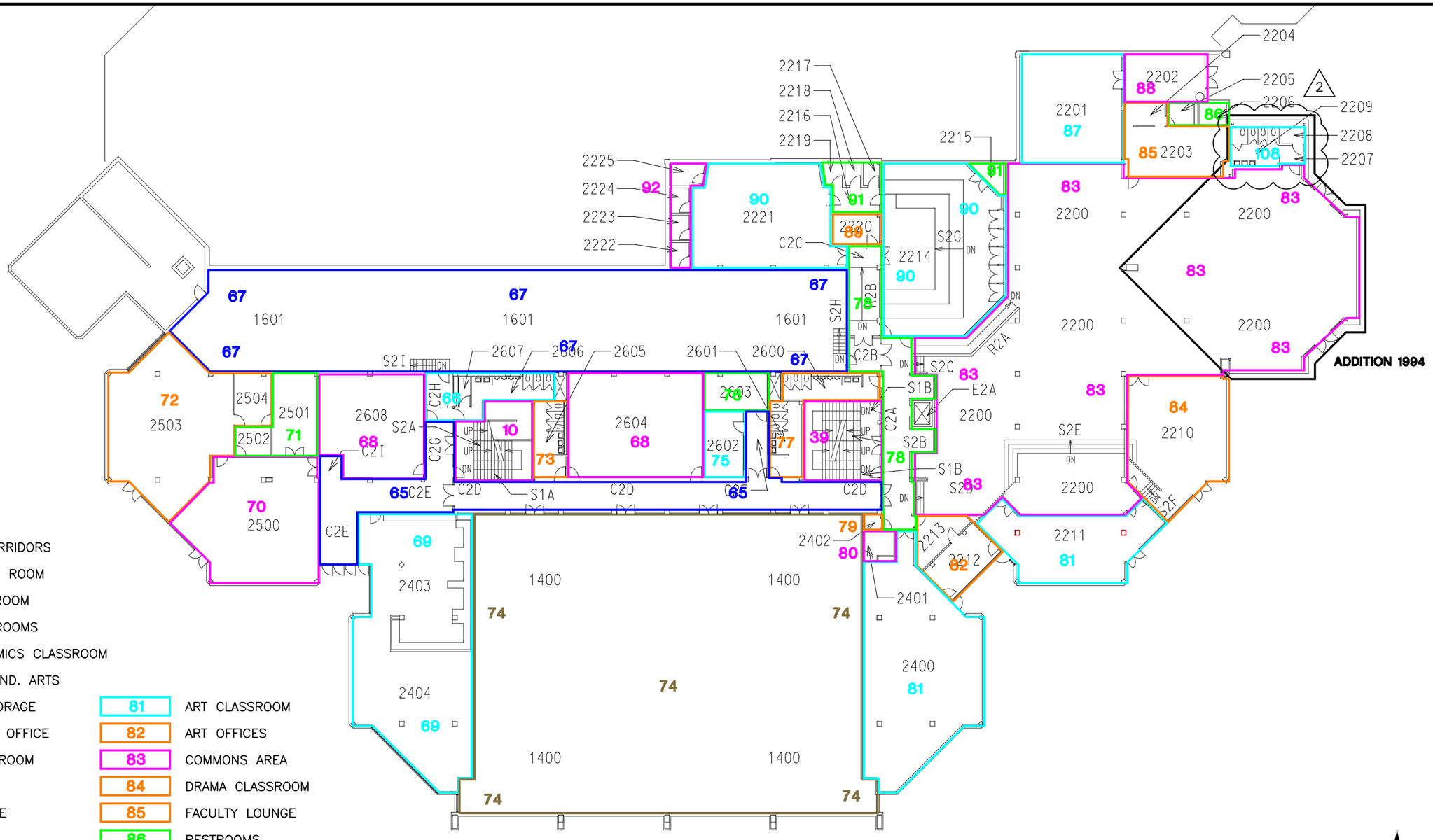
ASBESTOS – FUNCTIONAL SPACES
WEST MIDDLE SCHOOL – FIRST LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 04-09-20	REV: 2

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

F1-01



ORIGINAL BUILDING BUILT IN 1969

LEGEND

10	STAIRWELL	81	ART CLASSROOM		
39	STAIRWELL	82	ART OFFICES		
65	HALLWAYS/CORRIDORS	83	COMMONS AREA		
66	MENS LOCKER ROOM	84	DRAMA CLASSROOM		
67	MECHANICAL ROOM	85	FACULTY LOUNGE		
68	MUSIC CLASSROOMS	86	RESTROOMS		
69	HOME ECONOMICS CLASSROOM	87	FOOD SERVICE AREA		
70	WOOD SHOP/IND. ARTS	88	CAFETERIA OFFICE	91	INSTRUMENT STORAGE
71	IND. ARTS STORAGE	89	MUSIC OFFICE	92	PRACTICE ROOM
72	WOODSHOP & OFFICE	90	MUSIC CLASSROOMS	108	1994 ADDITION
73	FORMER RESTROOM				
74	GYMNASIUM				
75	SCHOOL STORE				
76	OFFICE				
77	RESTROOM				
78	HALLWAYS/CORRIDORS				
79	CUSTODIAL CLOSET				
80	KILN ROOM				

NOTE: 1. Original drawing prepared by PSC Industrial Outsourcing, LP.

N

0 30

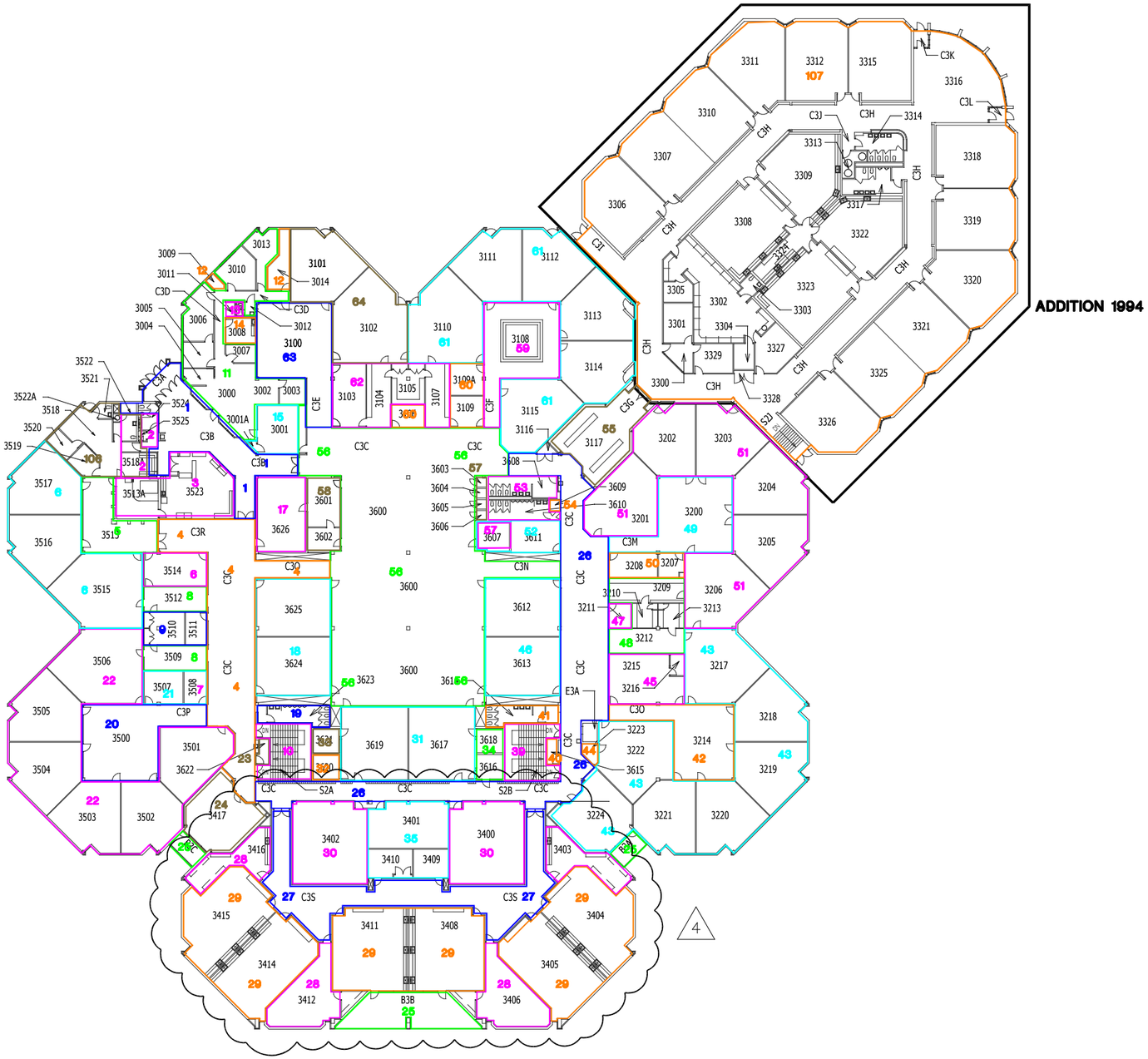
FEET

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:
ASBESTOS – FUNCTIONAL SPACES
WEST MIDDLE SCHOOL – SECOND LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: DRB	DES: MCD	PROJECT NO: 00291604	
CHKD: MCD	APPD: MCD	PARKWAY SCHOOL DIST. ST.LOUIS COUNTY, MO.	
DATE: 04-09-20	REV: 2	F1-02	



LEGEND

1	HALLWAYS/CORRIDORS
2	RESTROOMS
3	SPECIAL EDUCATION
4	HALLWAYS/CORRIDORS
5	COMMON AREA
6	CLASSROOMS
7	COPY ROOM
8	TEACHER PREPARATION AREA
9	OFFICES
10	STAIRWELL
11	OFFICES
12	OFFICE STORAGE
13	RESTROOMS
14	KITCHENETTE
15	CONFERENCE ROOMS
16	RESERVED
17	AUDIO/VISUAL ROOM
18	CLASSROOMS
19	RESTROOM
20	COMMON AREA
21	OFFICES
22	CLASSROOMS
23	CUSTODIAL CLOSET
24	LOCKER AREA
25	EXTERIOR BALCONY'S
26	HALLWAYS/CORRIDORS
27	CORRIDOR
28	STORAGE
29	CLASSROOMS
30	CLASSROOM
31	CLASSROOMS
32	COMPUTER ROOM
33	OFFICE
34	OFFICES
35	STORAGE
36	RESERVED
37	RESERVED
38	RESERVED
39	STAIRWELL
40	CUSTODIAL CLOSET
41	RESTROOM
42	COMMON AREA
43	CLASSROOMS
44	STORAGE CLOSET
45	INDIVIDUAL INSTRUCTION
46	CLASSROOMS
47	COUNSELORS OFFICE
48	TEACHER PREPARATION AREA
49	COMMON AREA
50	OFFICES
51	CLASSROOMS
52	SPEECH ROOMS
53	RESTROOMS
54	CUSTODIAL CLOSET
55	LOCKER AREA
56	LIBRARY
57	STORAGE CLOSETS
58	LIBRARY OFFICES
59	COMMON AREA
60	INDIVIDUAL INSTRUCTION
61	CLASSROOMS
62	TEACHER PREPARATION AREA
63	COMMON AREA
64	CLASSROOMS
106	NURSES OFFICE (3518/3520)
107	1994 ADDITION

NOTE:

1. Revision 1 prepared by PSC Industrial Outsourcing, LP.

N

0 50

FEET

psi Information To Build On
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Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

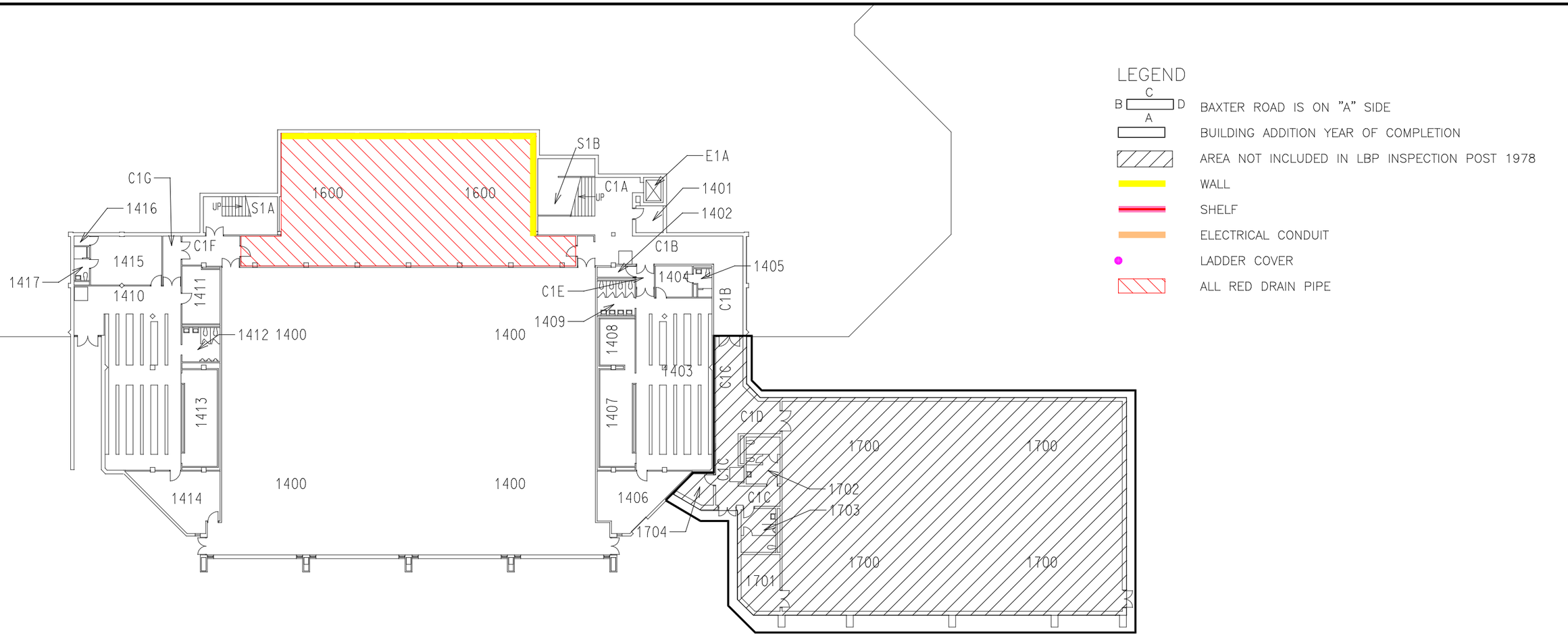
ASBESTOS – FUNCTIONAL SPACES
WEST MIDDLE SCHOOL – THIRD LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 04-09-20	REV: 4

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

F1-03



ADDITION 2000

LEGEND

- BAXTER ROAD IS ON "A" SIDE
- BUILDING ADDITION YEAR OF COMPLETION
- AREA NOT INCLUDED IN LBP INSPECTION POST 1978
- WALL
- SHELF
- ELECTRICAL CONDUIT
- LADDER COVER
- ALL RED DRAIN PIPE

NOTES:

1. This drawing must be used in conjunction with the LBP Testing Data Sheet. Do not disturb LBP materials without reviewing the LBP Inspection Report.
2. Building components with surface coatings/paints that have lead content equal to or greater than 1.0 milligrams of lead per square centimeter (1.0 mg/cm2) or 0.5% by weight are considered Lead Based Paint (LBP) by the United States Environmental Protection Agency (USEPA) and the Department of Housing and Urban Development (HUD). The Occupational Health and Safety Administration (OSHA) considers surface coatings/paints with any detectable level of lead to be "lead containing coatings or paint" having regulatory requirements.

N

0 30

FEET

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

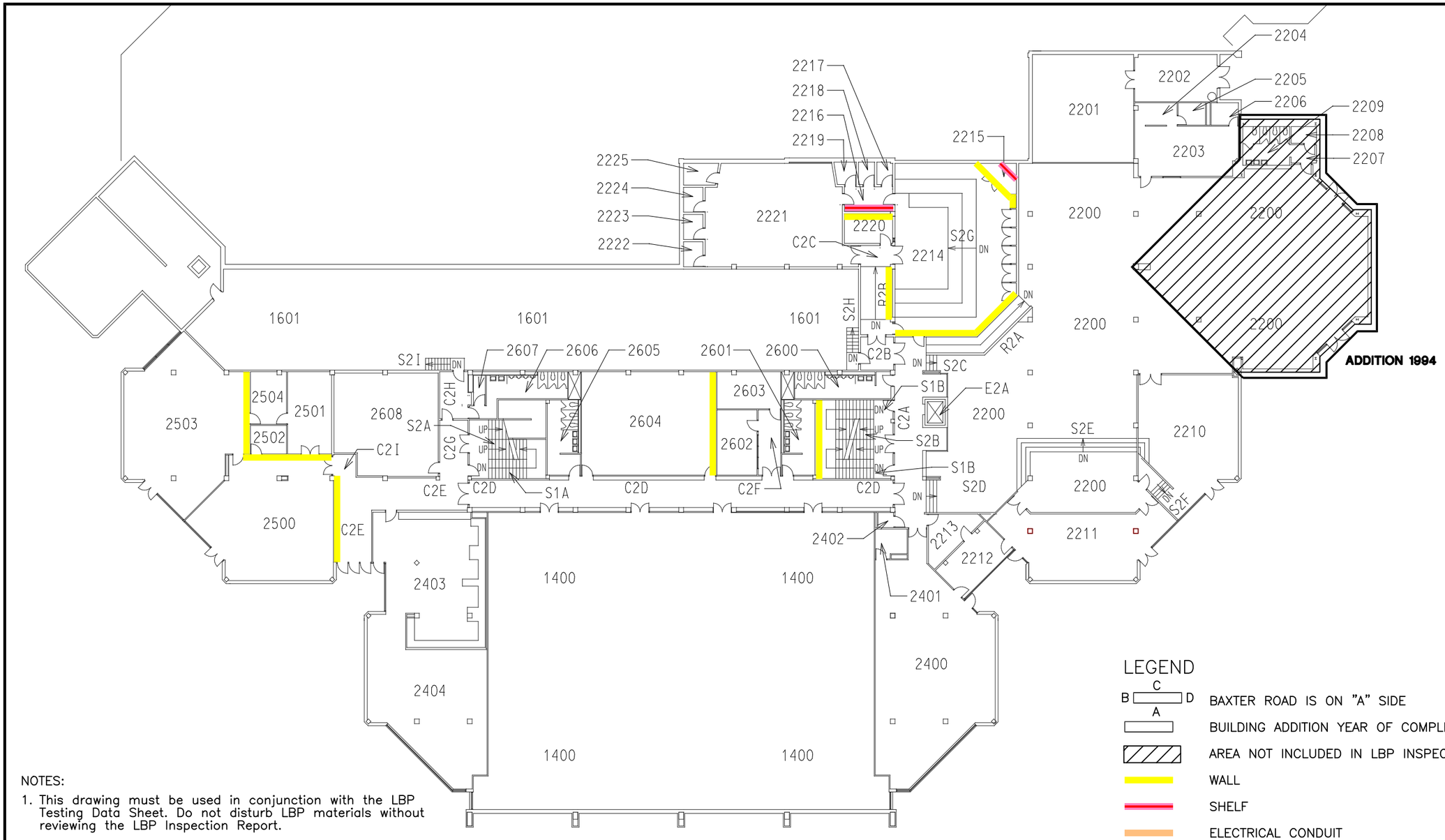
APPROXIMATE LOCATION OF LEAD BASED PAINT (LBP) – LOWER LEVEL
WEST MIDDLE SCHOOL – FIRST LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN: TDA	DES: MCD
CHKD: MCD	APPD: MCD
DATE: 05-08-14	REV: 1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

L1-01



NOTES:

1. This drawing must be used in conjunction with the LBP Testing Data Sheet. Do not disturb LBP materials without reviewing the LBP Inspection Report.
2. Building components with surface coatings/paints that have lead content equal to or greater than 1.0 milligrams of lead per square centimeter (1.0 mg/cm2) or 0.5% by weight are considered Lead Based Paint (LBP) by the United States Environmental Protection Agency (USEPA) and the Department of Housing and Urban Development (HUD). The Occupational Health and Safety Administration (OSHA) considers surface coatings/paints with any detectable level of lead to be "lead containing coatings or paint" having regulatory requirements.

ORIGINAL BUILDING BUILT IN 1969

LEGEND

- BAXTER ROAD IS ON "A" SIDE (B / C / A / D)
- BUILDING ADDITION YEAR OF COMPLETION
- AREA NOT INCLUDED IN LBP INSPECTION POST 1978
- WALL
- SHELF
- ELECTRICAL CONDUIT
- LADDER COVER
- ALL RED DRAIN PIPE

N

0 30

FEET

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

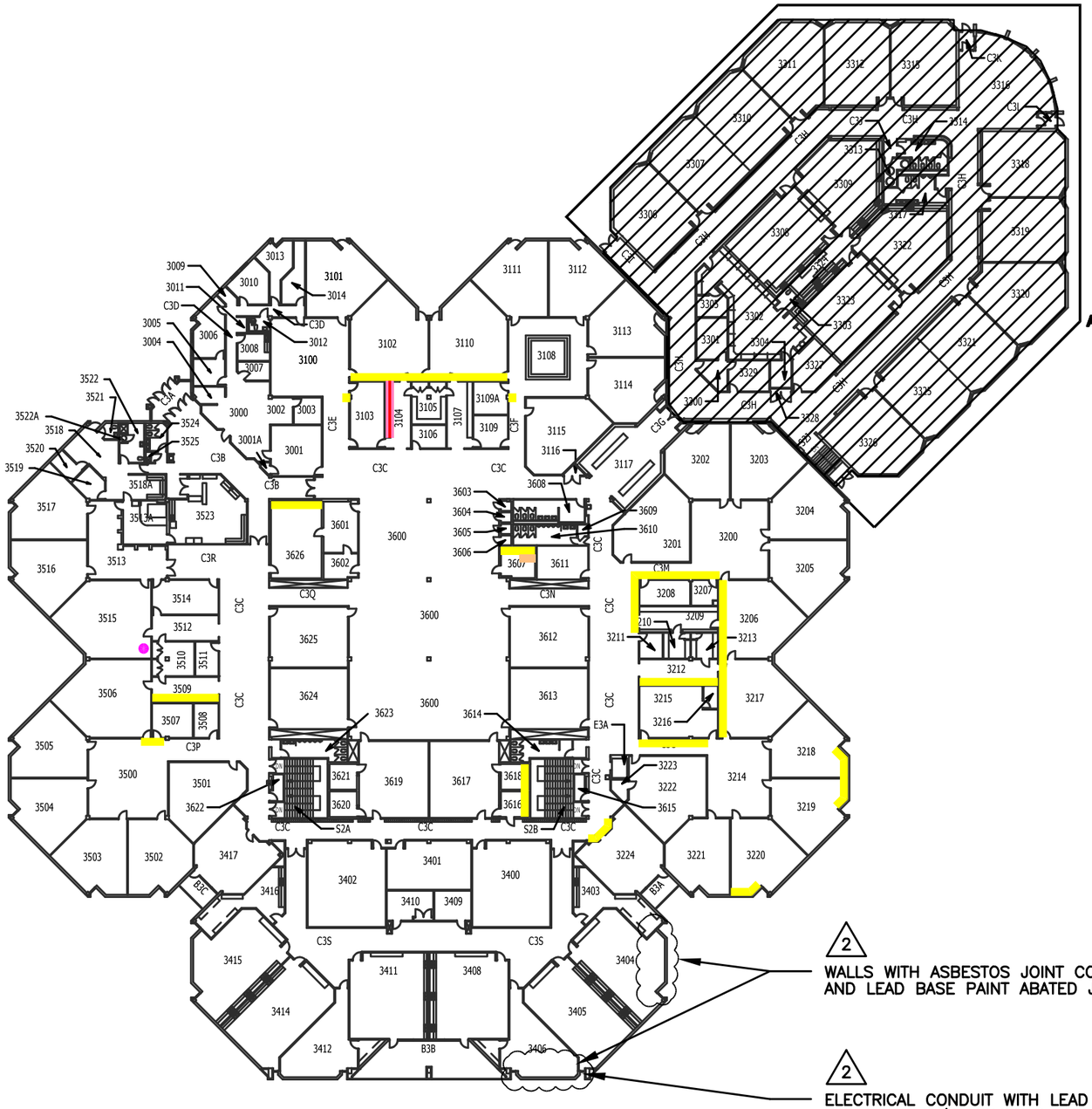
APPROXIMATE LOCATION OF LEAD BASED PAINT (LBP) – LOWER LEVEL
WEST MIDDLE SCHOOL – SECOND LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:
DRB	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
05–08–14	1

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

L1–02



2 WALLS WITH ASBESTOS JOINT COMPOUND AND LEAD BASE PAINT ABATED JUNE 2018

2 ELECTRICAL CONDUIT WITH LEAD BASE PAINT ABATED/DEMOLISHED JUNE 2018

LEGEND

- BAXTER ROAD IS ON "A" SIDE
- BUILDING ADDITION YEAR OF COMPLETION
- AREA NOT INCLUDED IN LBP INSPECTION POST 1978
- WALL
- SHELF
- ELECTRICAL CONDUIT
- LADDER COVER
- ALL RED DRAIN PIPE

NOTES:

1. This drawing must be used in conjunction with the LBP Testing Data Sheet. Do not disturb LBP materials without reviewing the LBP Inspection Report.
2. Building components with surface coatings/paints that have lead content equal to or greater than 1.0 milligrams of lead per square centimeter (1.0 mg/cm2) or 0.5% by weight are considered Lead Based Paint (LBP) by the United States Environmental Protection Agency (USEPA) and the Department of Housing and Urban Development (HUD). The Occupational Health and Safety Administration (OSHA) considers surface coatings/paints with any detectable level of lead to be "lead containing coatings or paint" having regulatory requirements.

N

0 50

FEET

psi Information To Build On
Engineering • Consulting • Testing
8669 Olive Boulevard St. Louis, MO 63132
Tel (314) 432-8073 Fax (314) 432-5119

TITLE:

APPROXIMATE LOCATION OF LEAD BASED PAINT (LBP)
WEST MIDDLE SCHOOL – THIRD LEVEL
2312 BAXTER ROAD – CHESTERFIELD, MO. 63017

PARKWAY SCHOOLS

DWN:	DES:
TDA	MCD
CHKD:	APPD:
MCD	MCD
DATE:	REV:
08–21–18	2

PROJECT NO: 00291604
PARKWAY SCHOOL DIST.
ST.LOUIS COUNTY, MO.

L1–03

SECTION 004000
PROCUREMENT FORMS AND SUPPLEMENTS

PART 1 GENERAL

1.01 CONTRACTOR IS RESPONSIBLE FOR OBTAINING A VALID LICENSE TO USE ALL COPYRIGHTED DOCUMENTS SPECIFIED BUT NOT INCLUDED IN THE PROJECT MANUAL.

1.02 FORMS

A. Use the following forms for the specified purposes unless otherwise indicated elsewhere in the procurement requirements.

B. Instructions to Bidders: AIA A701.

C. Substitution Request Form (During Procurement): Bidder's Discretion.

D. Bid Form: Section 004100 - Bid Form.

E. Procurement Form Supplements:
   1. Bid Security Form: AIA A310.
      a. Form AIA A310 is attached at end of Section 006000.
   2. Proposed Subcontractors Form: Section 004336 - Proposed Subcontractors Form.

F. Representations and Certifications:
   1. Bidder's Qualifications: AIA A305.
      a. Form AIA A305 is attached at end of Section 006000.

1.03 REFERENCE STANDARDS

A. AIA A305 - Contractor's Qualification Statement.

B. AIA A310 - Bid Bond.

C. AIA A701 - Instructions to Bidders; 2018.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 004000

SECTION 004100
BID FORM

THE PROJECT AND THE PARTIES

1.01 TO:

A. Parkway School District
   1. 363 North Woods Mill Road
   2. Chesterfield Missouri 63017

1.02 FOR:

A. The Parkway West Campus Project:
   1. WEH: West High School Building Renovation & Site Improvements (PN542501B)
   2. WEM: West Middle School Building Renovation (PN432502B)
   3. ECC: ECC West Building Renovation and Site Improvements (PN652501B)

B. Bid Number 27-60

1.03 DATE: _____ (BIDDER TO ENTER DATE)

1.04 SUBMITTED BY: (BIDDER TO ENTER COMPANY NAME, ADDRESS, AND CONTACT INFORMATION)

A. Bidder's Full Name:
   _____

   1. Address:
      _____
   2. City, State, Zip:
      _____
   3. Telephone Number:
      _____
   4. Fax Number:
      _____
   5. E-mail Address:
      _____

1.05 ACKNOWLEDGEMENTS:

A. We acknowledge:
   1. Examination of the site and all Bidding Documents and familiarity with the conditions pertaining to the site of the work and the requirements of the Bidding Documents as they pertain to the work has been made.
   2. Responsibility for performing all the work required of the Bidding Documents.
   3. Understanding that the Owner may reserve the right to reject any or all bids and to waive any informalities in the bidding.
   4. Understanding that by submitting a bid the representations in Article 2 of the Instructions to Bidders have been made.

1.06 OFFER

A. Bidders must show bid amount in both words and figures. In case of discrepancy, amount in words shall govern.

B. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Contract Documents prepared by Architect and Owner for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work. Modifications to this bid form will not be accepted. Qualifications to the scope of work for each bid package bid will not be accepted. By submitting a bid, Bidder is agreeing to perform the complete scope of work for the bid package being bid as outlined in the project documents for the Sum:

C. Combination Bid (*please note all bid package numbers included in combined bid*)
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package Nos. _____, exclusive of alternate bids, for the Sum:

      _____
      dollars ($_____), in lawful money of the United States of America.

D. Bid Package No. 1A - GENERAL TRADES
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 01A, exclusive of alternate bids,for the Sum:

      _____
      dollars ($_____), in lawful money of the United States of America.

E. Bid Package No. 02A - DEMOLITION & ABATEMENT
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 02A, exclusive of alternate bids, for the Sum :

      _____
      dollars ($_____), in lawful money of the United States of America.

F. Bid Package No. 04A - MASONRY
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 04A, exclusive of alternate bids, for the Sum:

      _____
      dollars ($_____), in lawful money of the United States of America.

G. Bid Package No. 09A - METAL STUDS / DRYWALL / CEILINGS
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 09A, exclusive of alternate bids, for the Sum :

      _____
      dollars ($_____), in lawful money of the United States of America.

H. Bid Package No. 09B - FLOORING
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 09B, exclusive of alternate bids, for the Sum :

      _____
      dollars ($_____), in lawful money of the United States of America.

I. Bid Package No. 09D - RESINOUS FLOORING
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 09D, exclusive of alternate bids, for the Sum :

      _____

J. Bid Package No. 21A - FIRE SUPPRESSION
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 21A, exclusive of alternate bids, for the Sum :

      _____

K. Bid Package No. 22A - PLUMBING SYSTEMS
   1. BASE BID:

Bidder agrees to perform all work for Bid Package No. 22A, exclusive of alternate bids, for the Sum :

_____

L. Bid Package No. 23A - MECHANICAL
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 23A, exclusive of alternate bids, for the Sum :

      _____

M. Bid Package No. 26A - ELECTRICAL SYSTEMS
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 26A, exclusive of alternate bids, for the Sum :

      _____

N. Bid Package No. 31A - SITEWORK & UTILITIES
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 31A, exclusive of alternate bids, for the Sum :

      _____

O. Bid Package No. 32A - ASHPALT PAVING
   1. BASE BID:
      Bidder agrees to perform all work for Bid Package No. 32A, exclusive of alternate bids, for the Sum :

      _____

P. We have included the required security Bid Bond or cashier's check at 5 percent of the Bid Sum as required by the Instruction to Bidders.

Q. All applicable federal taxes are included and State of Missouri taxes are included in the Bid Sum except those exempted by Missouri statutes.

1.07 ACCEPTANCE

A. This offer shall be open to acceptance and is irrevocable for sixty days from the bid closing date.

B. If this bid is accepted by Owner within the time period stated above, we will:
   1. Execute the Agreement in the form available to Contractor as part of the Bidding Documents without further modifications within seven days of receipt of Notice of Award.
   2. Furnish the required bonds within seven days of receipt of Notice of Award.
   3. Commence work within three days after written Notice to Proceed of this bid.

C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to Owner by reason of our failure.

D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.08 CONTRACT TIME

A. If this Bid is accepted, we will:

B. If awarded the Contract for Work bid upon herein, work will start on date designated in the project schedule issued by the Construction Manager and will be completed in accordance with the contract documents, with all phass of work completed and operatinal and ready for acceptance by the Owner no later than as required by the Contract Agreement.

C. Substantially complete the Work by ____.

1.09 ADDENDA

A. The following Addenda have been received. The modifications to the Bid Documents noted below have been considered and all costs are included in the Bid Sum.
   1. Addendum # _____ Dated _____.
   2. Addendum # _____ Dated _____.
   3. Addendum # _____ Dated _____.
   4. Addendum # _____ Dated _____.

1.10 BID FORM SUPPLEMENTS

A. The following Supplements are attached to this Bid Form and are considered an integral part of this Bid Form:
   1. Document 004322 - Unit Prices Form: Include a listing of unit prices specifically requested by Contract Documents.
   2. Document 004323 - Alternates Form: Include the cost variations to the Bid Sum applicable to the Work as described in Section 012300 - Alternates.
   3. Document 004336 - Proposed Subcontractors Form: Include the names of all Subcontractors and the portions of the Work they will perform.

1.11 BID FORM SIGNATURE(S)

A. The Corporate Seal of

B. _____

(Bidder - print the full name of your Proprietorship, Partnership, or Corporation)

C. was hereunto affixed in the presence of:

D. _____

(Authorized signing officer, Title)

E. (Seal)

F. _____

G. (Typed or printed name of authorized signing officer)

1.12 IF THE BID IS A JOINT VENTURE OR PARTNERSHIP, ADD ADDITIONAL FORMS OF EXECUTION FOR EACH MEMBER OF THE JOINT VENTURE IN THE APPROPRIATE FORM OR FORMS AS ABOVE.

END OF SECTION 004100

SECTION 004301
BID FORM SUPPLEMENTS COVER SHEET

PARTICULARS

1.01 PARKWAY SCHOOL DISTRICT

A. 363 North Woods Mill Road

B. Chesterfield, Missouri 63017

1.02 BID NUMBER 27-60

1.03 PROJECT NUMBER: PN542501B, PN652501B, PN432502B / PN432502B / PN652501

1.04 PROJECT NAME: PARKWAY WEST CAMPUS PROJECTS

A. WEH: West High School Building Renovation & Site Improvements (PN542501B)

B. WEM: West Middle School Building Renovation (PN432502B)

C. ECC: ECC West Building Renovation and Site Improvements (PN652501B)

1.05 PROJECT LOCATION:

A. WEH: 14653 Clayton Rd., Ballwin, MO 63011

B. WEM: 2312 Baxter Road, Chesterfield, MO 63017

C. ECC: 14605 Clayton Rd., Ballwin, MO 63011

1.06 DATE: _____

1.07 SUBMITTED BY: (BIDDER TO INSERT FULL COMPANY NAME AND ADDRESS)

A. _____

B. _____

C. _____

D. _____

E. In accordance with Section 002113 - Instructions to Bidders and Section 004100 - Bid Form - , we include the Supplements To Bid Form listed below. The information provided shall be considered an integral part of the Bid Form.

1.08 SUPPLEMENTS TO BID FORM

A. Section 004322 - Unit Prices Form

B. Section 004323 - Alternates Form

C. Section 004336 - Proposed Subcontractors Form

SIGNATURE(S)

2.01 THE CORPORATE SEAL OF

2.02 _____

2.03 (BIDDER - PRINT THE FULL NAME OF YOUR PROPRIETORSHIP, PARTNERSHIP, OR CORPORATION)

2.04 WAS HEREUNTO AFFIXED IN THE PRESENCE OF:

2.05 _____

2.06 (AUTHORIZED SIGNING OFFICER, TITLE)

2.07 (SEAL)

2.08 _____

2.09 (TYPED OR PRINTED NAME OF AUTHORIZED SIGNING OFFICER)

2.10 (SEAL)

END OF SECTION 004301

SECTION 004322
UNIT PRICES FORM

PARTICULARS

1.01 THE FOLLOWING IS THE LIST OF UNIT PRICES REFERENCED IN THE BID:

A. SUBMITTED BY: (Bidder Name)_____

B. TO: PARKWAY SCHOOL DISTRICT
   1. 363 North Woods Mill Road
   2. Chesterfield, Missouri 63017

C. dated _____ and which is an integral part of the Bid Form.

1.02 THE FOLLOWING ARE UNIT PRICES FOR SPECIFIC PORTIONS OF THE WORK AS LISTED, AND ARE APPLICABLE TO AUTHORIZED VARIATIONS FROM THE CONTRACT DOCUMENTS.

A. Quantities indicated below are for bid evaluation purposes only.

B. The unit quantity will be multiplied by the unit price and the product added to the base bid and any accepted alternate bids to determine the low bidder.

C. Actual quantities supplied or placed in the Work shall determine actual adjustment to the Contract Sum.

1.03 UNIT PRICE LIST:

A. ITEM DESCRIPTION : UNIT QUANTITY : UNIT PRICE

B. Item I Asbestos Abatement
   1. Labor Categories
      a. General Foreman
         1) Regular time per hour at $_____
         2) Time and one half per hour at $_____
      b. Foreman
         1) Regular time per hour at $_____
         2) Time and one half per hour at $_____
      c. Journeyman
         1) Regular time per hour at $_____
         2) Time and one half per hour at $_____
      d. Apprentice
         1) Regular time per hour at $_____
         2) Time and one half per hour at $_____
   2. Additional Charges:
      a. Additional charges, as listed below, shall be invoiced separately from labor rates.
      b. Description – Charge (includes abatement and disposal):
         1) Erect & Dismantle a Full, Negative: ADD $ _____ /ea DEDUCT $ _____ /ea
            Pressure Containment 12ft x10ft x10ft
         2) Floor Tile and Mastic ADD $ _____ /sf DEDUCT $ _____ /sf
         3) Floor Filler/Leveling Compound: ADD $ _____ /sf DEDUCT $ _____ /sf

END OF SECTION 004322

SECTION 004323
ALTERNATES FORM

PARTICULARS

1.01 THE FOLLOWING IS THE LIST OF ALTERNATES REFERENCED IN THE BID SUBMITTED BY:

1.02 (BIDDER) _____

1.03 TO: PARKWAY SCHOOL DISTRICT

1.04 DATED _____ AND WHICH IS AN INTEGRAL PART OF THE BID FORM.

ALTERNATES LIST

2.01 THE FOLLOWING AMOUNTS SHALL BE ADDED TO OR DEDUCTED FROM THE BID AMOUNT. REFER TO SECTION 012300 - ALTERNATES.

ALTERNATE # 1: ADD / (DEDUCT) $ _____

A. **WEH ALTERNATE NO. 1 – POOL GUTTER TILE**

1. Base Bid: Provide the specified Ramuc high-build epoxy coating (RF-6/RF-7) at the pool gutter, including required surface preparation, patching and repair of the gutter substrate, markings, and transitions, complete as indicated.
2. Alternate: In lieu of the Base Bid Ramuc coating at the pool gutter, provide the complete tile-and-grout finish indicated, including tile removal and substrate preparation, setting materials, grout, trims and transitions, depth and distance markings, removal, cleaning and reinstallation of existing gutter drain covers and fasteners, and coordination with adjacent finishes.
3. Bid Packages Affected: Bid Package 09D – Resinous Flooring (omit the Base Bid Ramuc coating at the pool gutter where replaced by tile) and Bid Package 09B – Flooring (pool-gutter tile removal, substrate preparation, tile, grout, trims, and accessories).
4. For Reference Only: WEH Drawings 0.0 (Alternate Scope Notes), A2.1B, A10.12, and A13.1 (RF-6/RF-7, T-2, TS-1, TS-4); Section 093000.

ALTERNATE # 2: ADD / (DEDUCT) $ _____

A. **WEH ALTERNATE NO. 2 – AREA E MULTIPURPOSE ROOM 2700 RENOVATION**

1. Base Bid: Perform no renovation or hazardous-material abatement work in Area E Multipurpose Room 2700; existing construction and finishes shall remain and be protected.
2. Alternate: Provide all work shown or specified for Area E and designated Alternate across all disciplines, including asbestos abatement of existing floor tile and mastic under full negative-pressure containment; selective demolition of existing VCT, wall base, and wall pads; substrate preparation; RF-5 resilient athletic flooring, WB-1 wall base, and transitions; WP-1 wall pads; painting of walls, exposed roof deck, structure, ductwork, piping, and conduits; cleaning existing mechanical grates; and protection of existing MEP and fire-suppression components during the work. No new plumbing, electrical, technology, or fire-alarm work is shown in Room 2700 unless subsequently added by the Project Documents.
3. Bid Packages Affected: Bid Package 01A – General Trades; Bid Package 02a – Demolition & Abatement; Bid Package 09B – Flooring; Bid Package 21a – Fire Suppression, limited to protection of sprinkler components during painting; and Bid Package 23a – Mechanical, limited to cleaning existing mechanical grates and coordination/protection of existing mechanical components.
4. For Reference Only: WEH Drawings AD2.3A, AD4.2A, A2.2A, A4.2A, A10.14, A10.15, A13.1, A14.2A, and MD2.2; WEH Hazardous Materials Information Packet, Area E; Section 096566.

END OF SECTION 004323

SECTION 004336
PROPOSED SUBCONTRACTORS FORM

PARTICULARS

1.01 HEREWITH IS THE LIST OF SUBCONTRACTORS REFERENCED IN THE BID:

A. SUBMITTED BY:

(Bidder Name)_____

B. TO: PAKRWAY SCHOOL DISTRICT
   1. 363 North Woods Mill Road
   2. Chesterfield, Missouri 63017

C. dated _____ (Bidder to enter date), which is an integral part of the Bid Form.

1.02 BIDDER AGREES THAT THE FOLLOWING SUBCONTRACTORS SHALL NOT BE CHANGED WITHOUT THE WRITTEN CONSENT OF THE OWNER PRIOR TO AWARD OF THE CONTRACT.

1.03 THE FOLLOWING WORK WILL BE PERFORMED (OR PROVIDED) BY SUBCONTRACTORS AND COORDINATED BY US.

1.04 LIST OF SUBCONTRACTORS:

A. WORK SUBJECT -- SUBCONTRACTOR NAME

B. Earthwork -- _____

C. Site Concrete -- _____

D. Asphalt -- _____

E. Segmental Block Retaining Walls -- _____

F. Landscaping -- _____

G. Structural Concrete -- _____

H. Steel Erection -- _____

I. Roofing -- _____

J. Glazing -- _____

K. Painting -- _____

L. Flooring -- _____

END OF SECTION 004336

SECTION 005000
CONTRACTING FORMS AND SUPPLEMENTS

PART 1 GENERAL

1.01 CONTRACTOR IS RESPONSIBLE FOR OBTAINING A VALID LICENSE TO USE ALL COPYRIGHTED DOCUMENTS SPECIFIED BUT NOT INCLUDED IN THE PROJECT MANUAL.

1.02 AGREEMENT AND CONDITIONS OF THE CONTRACT

A. See Section 005200 - Agreement Form for the Agreement and General Conditions.

B. The Agreement is based on AIA A101.

C. The Building Information Modeling and Digital Data Exhibit attachment to the Agreement is based on AIA E203.

D. The General Conditions are based on AIA A201.

1.03 FORMS

A. Use the following forms for the specified purposes unless otherwise indicated elsewhere in Contract Documents.

B. See Section 0060000 - Project Forms for forms specifically required following.

C. Bond Forms:
   1. Bid Bond Form: AIA A310.
   2. Performance and Payment Bond Form: AIA A312.

D. Post-Award Certificates and Other Forms:
   1. Submittal Transmittal Form: Owner's electronic document management system form.
   2. Certificate of Insurance Form: ACORD Certificate of Insurance 25.
   3. Schedule of Values Form: Owner's standard form.
   4. Application for Payment Form: Owner's standard form.
   5. Sales Tax Exemption Form: State of Missouri standard form.
   6. Consent of Surety to Reduction of Retainage Form: Surety's standard form.
   7. Stored Material Form: CM/Contractor's discretion.
   8. Contractor's Daily Report Form: Owner's electronic document management system form.

E. Clarification and Modification Forms:
   1. Request for Information Form: Owner's electronic document management system form.
   2. Supplemental Instruction Form: Owner's electronic document management system form.
   3. Written Amendment Form: Owner's standard form.
   4. Proposal Worksheet Summary Form: CM/Contractor's discretion.
   5. Proposal Worksheet Detail Form: CM/Contractor's discretion
   6. Claim Request Form: Owner's electronic document management system form.
   7. Change Order Form: Owner's electronic document management system form.

F. Closeout Forms:
   1. Certificate of Substantial Completion Form: AIA G704-2017
   2. Affidavit of Release of Liens Form: CM/Contractor's discretion
   3. Affidavit of Compliance With the Prevailing Wage Law: State of Missouri standard form.
   4. OSHA 10-Hour Construction Safety Training Log: Owner's standard form.
   5. Consent of Surety to Final Payment Form: Surety's standard form.

1.04 REFERENCE STANDARDS

A. AIA A101 - Standard Form of Agreement Between Owner and Contractor where the basis of Payment is a Stipulated Sum.

B. AIA A201 - General Conditions of the Contract for Construction.

C. AIA A305 - Contractor's Qualification Statement.

D. AIA A310 - Bid Bond.
E. AIA A312 - Performance Bond and Payment Bond.
F. AIA E203 - Building Information Modeling and Digital Data Exhibit; 2013.
G. AIA G201 - Project Digital Data Protocol, 2013
H. AIA G704-2017 - Certificate of Substantial.
I. AIA G714 - Construction Change Directive.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 005000

SECTION 005200
AGREEMENT FORM

PART 1 GENERAL

1.01 FORM OF AGREEMENT

A. The Agreement to be executed and Exhibits are attached at the end of this document.

1.02 RELATED DOCUMENTS

A. Document 007200 - General Conditions.

B. Section 014216 - Definitions.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 005200

Poettker Construction

TRADE CONTRACT

Missouri (Construction Manager)

This Document has important legal and insurance consequences; consultation with an attorney and insurance consultants and/or carriers is encouraged with respect to its completion or modification.

THIS AGREEMENT, made as of [MONTH] [DATE], [YEAR]:

Between the
Construction Manager: **POETTKER CONSTRUCTION COMPANY**
As Assignee of Owner **400 S. Germantown Road**
Breese, Illinois 62230

And the Trade Contractor: **«CONTRACTOR_NAME»**
«CONTRACTOR_ADDRESS1»
«CONTRACTOR_ADDRESS2»
«CONTRACTOR_CITY», «CONTRACTOR_STATE»
«CONTRACTOR_POSTAL_CODE»

The Construction Manager has entered into a contract with Owner whereby Construction Manager is to provide construction management services. Said contract is referred to herein as the "Construction Manager Contract".

For the Project: **«PROJECT_DESCRIPTION»**
«PROJECT_DESCRIPTION_2»
«PROJECT_ADDRESS1»
«PROJECT_ADDRESS2»
«PROJECT_CITY»«PROJECT_STATE» «PROJECT_POSTAL_CODE»

Owner: **«OWNER_NAME»**
«OWNER_ADDRESS1»
«OWNER_ADDRESS2»
«OWNER_CITY» «OWNER_STATE» «OWNER_POSTAL_CODE»

The design team representatives include:

The Project Architect: **«ARCHITECT_NAME»**
« ARCHITECT_ADDRESS1»
« ARCHITECT_ADDRESS2»
« ARCHITECT_CITY» « ARCHITECT_STATE»
«ARCHITECT_POSTAL_CODE»

Introduction

For the purpose of this Trade Contract (hereinafter sometimes referred to as the "Contract" or "Agreement"), **POETTKER CONSTRUCTION COMPANY** is hereinafter referred to as the "**Construction Manager**", and **«CONTRACTOR_NAME»,** the trade contractor, is hereinafter referred to as "**Contractor**".

The Construction Manager and Contractor agree as follows.

TABLE OF ARTICLES

1 THE CONTRACT DOCUMENTS

2 SCOPE OF WORK

3 PAYMENTS

4 PROSECUTION OF THE WORK

5 CHANGES IN THE WORK

6 INSURANCE AND INDEMNITY

7 RESERVED

8 WARRANTY

9 CONTRACTORS OBLIGATIONS

10 TERMINATION

11 CLAIMS

12 PREVAILING LAW

13 INVALID PROVISION

14 DEFINITIONS

15 Article 1

THE CONTRACT DOCUMENTS

1.1. This Trade Contract has been awarded to Contractor by the Owner and Construction Manager after advertisement for bids. By submitting its bid and being awarded this Trade Contract, Contractor acknowledges and agrees that (i) Contactor is signing this Trade Contract as a trade contractor of the Construction Manager; and (ii) upon signing this Trade Contract, Contractor shall be a trade contractor of Construction Manager pursuant to this Trade Contract and Contractor will not have any rights under the Trade Contract against the Owner; all of Contractor's obligations under this Contract shall be enforceable by Construction Manager; and any claims of Contractor shall be against the Construction Manager.

1.2. The "Contract Documents" consist of (1) this Agreement; (2) the agreement between Construction Manager and Owner, (3) Invitation to Bid; (4) Instructions to Bidders; (5) Bid Specifications; (6) Addenda, if any; (7) Architectural and/or Engineering Drawings; (8) Change Directives; (9) Change Orders; (10) other documents listed by Exhibits attached to this Agreement; (11) the Construction Manager Contract; and (12) Modifications to this Agreement made or issued after execution of this Agreement. These documents form this Agreement, and are as fully a part of this Agreement as if attached to this Agreement or repeated herein. This Agreement represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral.

1.3. The Contractor agrees anything that may be called for in the specifications and not shown on the drawings, or shown on the drawings and not called for by the specifications, shall be of like effect as if called for and shown in both. In the event of any discrepancies or conflicts in the Contract Documents, the Contractor shall perform or include the most stringent requirement. If Contractor discovers any ambiguities or discrepancies, Contractor shall immediately submit the matter to Construction Manager for determination.

1.4. Notwithstanding anything to the contrary herein, the obligations of the parties under this Agreement are expressly conditioned on the approval of this Agreement and countersignature by the Parkway School District Board of Education.

Article 2

SCOPE OF WORK

2.1 The Construction Manager engages Contractor as an independent contractor, to perform the «DETAIL_DESCRIPTION» scope of the work (hereinafter called "Contractor's Work").

2.2 Contractor's Work includes, but is not limited to the following: «SCOPE_OF_WORK_DESCRIPTION »

2.3 The following Exhibits are attached and part of this Agreement with the Contractor:

N/A

2.4 The following items are specifically excluded from this Agreement, as they are performed by other trade contractors on the Project: «SCOPE_OF_WORK_EXCLUSIONS»

2.5 Contractor shall complete the Contractor's Work per the plans and specifications. Contractor represents and warrants that the Contract Sum includes all labor, equipment, tools, supplies and materials furnished, fabricated, delivered, unloaded, stored, distributed, and installed, with all freight, surcharges, taxes, insurance, and cost escalation included.

2.6 The Contractor agrees to perform the Contractor's Work under the general direction of the Construction Manager and subject to the final approval of the Architect/Engineer and/or such additional or other specified representative(s) of the Owner, in accordance with the Contract Documents.

2.7 Contractor shall furnish competent onsite supervision when Contractor's Work is performed at the site, and as necessary to complete the Contractor's Work.

2.8 Completion of all work related to Contractor's scope of work in accordance with applicable specified codes, state and federal regulations and safety requirements, and all local governing ordinances and authorities.

2.9 Contractor shall inspect existing conditions in areas of their work prior to mobilization and start-up. Commencing the Contractor's Work shall be deemed Contractor's acceptance of existing conditions.

2.10 Contractor is responsible for clean-up and disposal of all debris created under this scope of work into dumpsters provided by others, or as specified in paragraph 2.2 of this Agreement.

2.11 Contractor shall begin to procure submittals at the earlier of: (a) the time of formal Notice of Intent, or (b) upon receipt of this Agreement. Submission of all required shop drawings, product data, and other submittals required by the specifications will be required within two (2) weeks of contract date, or as noted in paragraph 2.2. Any costs incurred by the Contractor related to submittal procurement will not be paid if this Agreement is not executed for any reason.

2.12 Contractor shall coordinate the Contractor's Work with other affected trades prior to beginning work in this Agreement.

2.13 Contractor is responsible for all applicable sales tax applicable to Contractor's Work. If the Project is tax exempt, a certificate will be made available to the Contractor, and sales, use and other exempt tax should be excluded from the Contract Sum.

2.14 Contractor shall coordinate execution of work with jurisdictional agencies and Construction Manager's superintendent for testing required by the Contract Documents for Contractor's Work. Contractor shall provide adequate notice to Construction Manager as required to coordinate said inspections and testing procedures without delay to the Project Schedule.

2.15 Contractor is responsible for providing all required equipment for hoisting, setting, cutting, anchoring and all other required installation activities related to this scope of work, including coordinating, handling and receiving of material shipments supplied by others to be installed under this Agreement.

2.16 Contractor shall coordinate with all utility companies, both existing and proposed, in order to prevent elevation interference conflicts.

2.17 If deemed necessary by Construction Manager's superintendent or if Contractor is on the weekly Detail Schedule in order to coordinate work, Contractor shall have a representative attend coordination meetings, job-site safety meetings and all related project meetings as necessary to coordinate their scope of work with other trades. Should Contractor fail to have a representative with authority present at these meetings, Construction Manager may fine Contractor $500 per offense.

2.18 Contractor shall comply with all requirements of the National Pollutant Discharge Elimination System (NPDES) Permit and governing laws, Storm Water Pollution Prevention Plan (SWPPP) as defined in the Contract Documents, Best Management Practices (BMP's) as defined by the governing authority. Contractor will be held accountable for deficiencies in these areas as it relates to its scope of work, which could involve fines or penalties imposed by the Owner or jurisdictional agencies.

2.19 Contractor shall comply with all immigration enforcement rules and regulations pertaining to their labor, including, cooperation and participation in an employee identity verification and security badge system. Failure to cooperate and participate in this program could involve fines assessed by the Construction Manager against Contractor, of which, the Contractor will be held responsible for reimbursement.

2.20 By bidding the project, the Contractor understands that this is a schedule driven project. The Contractor is hereby committing adequate forces as well as night shift work and/or overtime as may be required to meet the construction start date, the date for substantial completion and date for final completion of all construction indicated in the Contract Documents, and Construction Manager's Project Schedule. The Contractor agrees to complete punch lists work in a timely manner and on or before the date of final completion established by the Construction Manager. The Contractor agrees it has sole responsibility to provide all necessary labor, equipment materials, tools, and whatever else is necessary to perform the Contractor's Work without interruption and on or before the stipulated dates indicated in the Contract Documents and Project Schedule provided by the Construction Manager. Failure to do so may subject the Contractor to liquidated damages as specified in the Contract Documents.

2.21 Should any questions arise with respect to the interpretation of the drawings and specifications, they shall be referred to the Construction Manager. If the Construction Manager and Contractor cannot mutually agree upon the correct interpretations of such questions, they shall be submitted to the Architect/Engineer and their decision shall be final and binding. If there is no Architect/Engineer for this Project, the Construction Manager's decision shall be followed by the Contractor. Each party shall at all times during the work have a duly appointed representative on the job site who is authorized to act for the respective party concerning this Contract.

2.22 Contractor shall require everyone on the project site wear a hard hat at all times. Additionally, all of Contractor's subcontractors shall comply with all applicable regulations and requirements for safety and health including but not limited to federal, state, municipal, and with Construction Manager's safety policies. The most stringent requirement takes precedence.

2.23 The Contractor represents and warrants to the Construction Manager that the Contractor is financially solvent, able to pay its debts as they mature, and possessed of sufficient working capital to complete the Contractor's Work; that the Contractor is able to furnish the tools,

materials, supplies, equipment and labor, and is experienced in and competent to perform Contractor's Work; that the Contractor is qualified to do the Contractor's Work herein and is licensed and authorized to do business in the State where the Project is located; and that the Contractor holds a license, permit, or other special license to perform the Contractor's Work as required by law.

2.24 The Contractor warrants that the Contract Documents are full, complete and sufficient to have enabled the Contractor to determine the price of the Contractor's Work, to enter into this Agreement and that the Contract Documents are sufficient to enable it to complete the Contractor's Work outlined herein and the Contract Documents and otherwise to complete all of its obligations hereunder for an amount not in excess of the price herein on or before the date of completion established in the Contract Documents.

2.25 The Contractor has visited the site and is fully familiar with all conditions affecting the Project. Further, the Contractor warrants that it has satisfied itself as to the nature, location and character of the job site, including without limitation the surface and subsurface conditions of the job site and all structures and obstructions thereon and thereunder, the nature, location and character of the area in which the Project is located, including its climatic conditions, available labor supply and labor costs, available equipment supply and equipment costs and the quality and quantity of all materials, supplies, tools, equipment, labor and professional services necessary to complete the Contractor's Work in the manner and within the cost and timeframe required by the Contract Documents.

2.26 The Contractor represents that it has no knowledge of any discrepancies, omissions, ambiguities or conflicts in the Contract Documents as they pertain to the Contractor's Work.

2.27 Contractor binds itself to the Construction Manager for the performance of Contractor's Work in the same manner as the Construction Manager is bound to the Owner for such performance under Construction Manager's Contract with the Owner such that Contractor will meet and comply with all requirements, responsibilities, obligations and restrictions of the Construction Manager under Construction Manager's Contract with the Owner. The pertinent parts of the Construction Manager Contract will be made available upon Contractor's request. The Construction Manager shall have the benefit of all rights, remedies, and redress against the Contractor that the Owner has against the Construction Manager.

2.28 All representations, indemnifications, and warranties made in, required by or given in accordance with this Agreement, as well as all continuing obligations indicated in the Agreement, will survive Final Payment, completion and Final Acceptance of the Work and termination or completion of the Agreement, and any task orders there under.

Article 3

PAYMENTS

3.1 Provided that no reason exists for withholding payment pursuant to paragraph 3.10 or otherwise under the provisions of this Agreement, the Construction Manager agrees to pay to the Contractor for the satisfactory completion of Contractor's Work, the sum of **$«SCOPE_OF_WORK_CONTRACT_AMOUNT»** ("Contract Sum").

3.2 Subject to the other terms and conditions of this contract, payment shall be made in monthly payments of 95% of the value of the work performed in any preceding month, in accordance with estimates prepared by the Contractor and approved by the Construction Manager and Owner. The remaining 5% value of work shall be retained until Final Payment, unless otherwise provided in the Contract Documents.

3.3 Unless otherwise provided in the Contract Documents, applications for payment may include materials and equipment not yet incorporated into the Project but delivered to and suitably stored onsite or offsite at a location agreed upon in writing, including applicable insurance, storage and costs incurred in transporting to an offsite storage facility. Approval of payment applications for stored materials and equipment stored offsite shall be conditioned on submission by the Contractor of bills of sale and proof of required insurance, or such other procedures satisfactory to the Construction Manager to establish the proper valuation of the stored materials and equipment, the Owner's title to such materials and equipment, and to otherwise protect the Construction Manager and Owner's interests therein, including transportation to the site.

3.4 Contractor shall provide completed lien waivers and supplier affidavit forms, in a form satisfactory to the Construction Manager with each estimate.

3.5 Payment of the approved portion of the Contractor's monthly estimate shall be conditioned upon receipt by the Construction Manager of its payment from the Owner, and Contractor agrees that payment by the Owner is a condition precedent to the Construction Manager's obligation to pay the Contractor. After Construction Manager receives payment from Owner for the approved portion of Contractor's monthly estimate, Construction Manager will make payment to Contractor within 15 days of its receipt of Owner's payment for Contractor's approved amount, provided no reason exists for Construction Manager to withhold payment from Contractor pursuant to this Contract.

3.6 Approval and payment of Contractor's monthly estimate is specifically agreed not to constitute or imply acceptance by the Construction Manager or Owner of any portion of the Contractor's Work. In no case shall the Construction Manager be held responsible for payment to the Contractor for work not paid by the Owner to the Construction Manager.

3.7 Contractor shall submit monthly estimates to the Construction Manager by the 20th of each month. All such estimates shall be sent electronically to ap@poettkerconstruction.com, copying the Construction Manager's Project Manager by email. In the event the Contractor does not submit such monthly estimates to the Construction Manager by the 20th of the month, then the Construction Manager may, at its option, include in its monthly estimate to the Owner, for Contractor's Work performed during the preceding month, such amount as

Construction Manager may deem proper for the work of the Contractor for the preceding month; and the Contractor agrees to accept such approved portion thereof in lieu of monthly payment based upon the Contractor's estimate.

3.8 In the event it appears to the Construction Manager that the labor, material and other bills incurred in the performance of Contractor's Work are not being currently paid, the Construction Manager, may take such steps as Construction Manager deems necessary to insure that the money paid with any progress payment will be utilized to pay such bills, including directing that any amounts due to the Contractor under this Agreement be paid jointly to both the Contractor and the unpaid vendor or subcontractor.

3.9 The Construction Manager may deduct from any amounts due or to become due to the Contractor any sum or sums owing by the Contractor to the Construction Manager pursuant to this Agreement or any other agreement between Construction Manager and Contractor. In the event of any breach by the Contractor of any provision or obligation of this Agreement or any other agreement between Construction Manager and Contractor, or in the event of the assertion or threat by other parties of any claim or lien against the Owner, the Construction Manager, Construction Manager's Surety, or the Project, which claim or lien arises out of the Contractor's performance of this Agreement or any other agreement between Construction Manager and Contractor, the Construction Manager shall have the right, but is not required, to retain out of any payments due or to become due to this Contractor an amount sufficient to completely protect (and if necessary, reimburse) the Construction Manager from any and all loss, damage or expense therefrom, until the claim or lien has been adjusted by the Contractor to the satisfaction of the Construction Manager. This paragraph shall be applicable even if the Contractor has posted a full payment and performance bond.

3.10 For the purpose of evaluating partial billings and payment, an itemized Schedule of values (SOV) of the various portions of the Contractor's Work, aggregating the total Contract Sum, shall be submitted for approval prior to the first payment application. This SOV shall include as separate and distinctive items, the various subcontractors, equipment suppliers, major material suppliers, and major labor items. Any materials listed from Contractor's stock, shall not exceed $10,000 unless approved by Construction Manager. The approved SOV shall then be used by the Contractor on all monthly estimates. The Contractor shall include a line item in the SOV labeled "Close out and Close out Documents" of not less than five percent (5%) of the Contract Sum.

3.11 Prior to making any payments to the Contractor, the Construction Manager must receive and approve proof of insurance as required in Article 6 of this Agreement.

3.12 Payments otherwise due may be withheld by Construction Manager when defective Contractor Work has not been remedied, a claim has been, or it is reasonably anticipated that a claim may be submitted to Contractor, Contractor has failed to make payments to its subcontractors for materials or labor, or it is reasonably anticipated that the this Agreement cannot be completed for the balance remaining unpaid. If the foregoing causes are rectified, the withheld payment shall be made promptly. If any lien or claim arises after final payment is made, Contractor shall pay the claim and obtain a release of the lien or claim, or provide a bond that fully discharges and fully protects Construction Manager and Owner from the claim or lien. If Contractor fails to do so within a reasonable time, Construction Manager may pay the amount, which will be reimbursed by the Contractor.

3.13 The Contractor shall submit a separate retention only final estimate upon completion and Final Acceptance of Contractor's Work. This shall be considered the Final Payment estimate.

3.13.1 Final Payment shall be paid to the Contractor upon approval by the Owner, Architect and the Construction Manager of the Contractor's Work and no later than fifteen (15) days after payment having been received by the Construction Manager for all of Contractor's Work and satisfactory evidence having been received by the Construction Manager that all payrolls, including customary fringe benefits and payments due under collective bargaining agreements, bills for materials and equipment, all known indebtedness related to Contractor's Work, and all subcontractors and suppliers have been paid to date and are waiving their lien rights upon the final payment of a specific balance due. Acceptance of final payment by the Contractor shall constitute a waiver of claims by the Contractor, except those previously made in writing and identified by the Contractor as unsettled at the time of final application for payment.

3.13.2 All final lien waivers, manufacturer and supplier warranties and other final project documents required by the Contract Documents and this Agreement in relation to the Contractor's Work shall be submitted and approved prior to Contractor's Final Payment estimate. Final Payment will not be issued until all required final documentation is approved by the Construction Manager, Owner, and Architect.

Article 4

PROSECUTION OF THE WORK

4.1 Time is of the essence for both parties, and they mutually agree to see to the performance of their work and the work of their subcontractors so that the entire project may be completed promptly, in a good and workmanlike manner and in accordance with the Contract Documents. The Contractor shall, at all times, provide the materials, equipment, shoring, scaffolding, tools, labor and competent supervision necessary to complete Contractor's work in a timely manner. The Contractor shall provide the Construction Manager with scheduling information and Contractor's proposed weekly schedule for the Contractor's Work, including durations and manpower. The Construction Manager shall then prepare the Detail Schedule of the Contractor's Work as it relates to the overall Project Schedule and, as may be necessary, revise such Detail Schedule as the Contractor's Work progresses. Contractor acknowledges that revisions may be made in the Project Schedule and Detail Schedule and agrees to make no claim

for acceleration or delay by reason of such revisions so long as such revisions are of the type normally experienced in the scope and complexity of Contractor's Work.

4.2 The Contractor shall prosecute Contractor's Work in a prompt and diligent manner in accordance with the Project Schedule and/or Detail Schedule without hindering the work or progress of the Construction Manager or any trade contractor. If work of others is damaged by Contractor, the Contractor will cause such damage to be corrected to the satisfaction of and without cost to the Construction Manager and Owner. If Contractor's Work is damaged by others, then Contractor waives any right to recover overhead or profit in connection with the repair or replacement of such Contractor's Work unless and to the extent such overhead or profit is paid by any applicable insurance proceeds. In the event Contractor fails to maintain its part of the Project Schedule and/or Detail Schedule, it shall, without additional compensation, work such overtime as the Construction Manager may direct until Contractor's Work is in accordance with such schedules. Additionally, any costs required to bring Contractor's Work into conformity with such schedules shall be without additional compensation.

4.3 The Contractor shall be responsible for and will prepare for performance of Contractor's Work, including without limitation thereto, the submission of shop drawings, samples, tests, field dimensions, determination of labor requirements and ordering of materials as required to meet the Project and/or Detail Schedules. Contractor shall notify Construction Manager when portions of the Contractor's Work are ready for inspection.

4.4 The Contractor shall keep and maintain daily progress logs of the Contractor's Work, including labor, equipment, material, and deliveries of own forces and any subcontractor forces; as well as progress of materials or equipment to be provided under this Agreement that may be in the course of preparation or manufacture. Contractor shall furnish such logs to Construction Manager as requested.

4.5 The Contractor shall cooperate with the Construction Manager and other trade contractors whose work may interfere with the Contractor's Work and participate in the preparation of coordinated drawings and work schedules in areas of congestion, specifically noting and advising the Construction Manager of any interference by other trade contractors or subcontractors. If the Contractor's Work includes the installation of materials or equipment not supplied by Contractor, then Contractor shall be responsible for requesting copies of all shop drawings, samples or other submittals relating to such materials or equipment and approving such submittals prior to commencement of Contractor's Work. Commencement of Contractor's Work shall be deemed to be an approval of all such shop drawings, samples and/or other submittals.

4.6 The Contractor shall keep the job site orderly and clean at all times. The Contractor's tools and materials shall only be stored on the job site at such locations and in such manner as is approved by the Construction Manager. If the Contractor fails to clean and organize the job site contrary to provisions hereof, the Construction Manager shall be permitted to perform such necessary clean-up and deduct the cost of such work from amounts due to the Contractor.

4.7 The Contractor shall give adequate notices pertaining to the Contractor's Work to proper authorities and secure and pay for all necessary licenses, permits and royalty fees to carry on Contractor's Work; the furnishing of which is required by the Contract Documents. The Contractor shall defend all suits or claims for infringement of any patent rights involved in the work of the Contractor.

4.8 The Contractor shall comply and cause all of its subcontractors to comply with all Federal, State and local laws and regulations, Social Security Laws and Unemployment Compensation Laws, Immigration Laws, Workers' Compensation Laws, Safety Laws and wage, salary and price regulations insofar as applicable to the performance of this Agreement. Contractor shall also maintain its own safety program for compliance with such laws and shall further comply with the Construction Manager's safety requirements and the Construction Manager's compliance plans regarding any such laws to the extent they are brought to its attention.

4.8.1 Contractor agrees it will comply with Missouri's prevailing wage statutes at Chapter 290 of the Revised Statutes of Missouri and any implementing regulations in Missouri's Code of State Regulations, and any county-wide, local, or contract document requirement for payment of prevailing wages. Contractor agrees that for any laborer engaged in construction of public work as defined by statute, regulation, ordinance, or contract document, it will pay not less than the general prevailing rate of hourly wages for Work of a similar character in the locality where the Work is performed and not less than the general prevailing rate of hourly wages for legal holiday and overtime Work each as set forth in Wage Order 29, or the most recent Wage Order in effect as of the date hereof, as promulgated by the Missouri Department of Labor. Contractor shall ensure that its subcontractors comply with the requirements of the laws referenced in this section and any contract documents regarding prevailing wages and shall indemnify, defend and hold harmless Construction Manager and Owner from and against any damage, claim, cost or expense incurred as a result of Contractor's failure to so comply.

4.8.2. Contractor agrees that it shall abide by and comply with all applicable local, State and Federal laws relating to fair employment practices and prohibiting discrimination in employment contracts involving public funds, the construction or development of public Works, buildings, or facilities. The Contractor shall not discriminate on the basis of age, race, color, national origin, religion, sex, sexual orientation, or sexual identity, in the performance of this Contract.

4.9 Any duty on the part of Construction Manager in connection with the safety of persons or property at or near the job site is intended solely to benefit the Owner and is not intended to benefit Contractor or any third person or entity who may be injured or damaged as a result of the Work. Construction Manager and Contractor specifically state that they do not intend to confer any third-party beneficiary status on any other person or entity nor do they intend, by this

Agreement or their activities on the job site, to create any duty on the part of the Construction Manager as to any person or entity on the job site. The Contractor agrees that Contractor is the most knowledgeable as to how to safely perform the Contractor's Work. Although the Construction Manager may advise the Contractor if the Construction Manager believes there is some unsafe condition or activity on the job site, the sole responsibility for preventing injuries and accidents to Contractor's employees shall rest upon the Contractor.

4.10 The Contractor will not assign this Agreement, nor subcontract the whole or any part of the Contractor's Work to be performed hereunder, without the prior written consent of the Construction Manager, with the exception of those subcontractors listed by the Contractor and furnished to the Construction Manager at the time this Agreement is executed.

4.11 If the Contractor's Work includes the furnishing of architect's, engineer's or other design services, Contractor shall cause such services to be provided by a properly licensed design professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, shop drawings and other submittals prepared by such professional. The Construction Manager and the Owner shall be entitled to rely upon the adequacy, accuracy and completeness of the services performed by such design professional. The Contractor shall be responsible to the Construction Manager and the Owner for the acts and omissions of such design professional. Further, the Contractor shall be responsible for providing or causing such professional to carry and maintain professional liability insurance for claims arising from the performance of such professional services, all as set forth in Article 6 hereof. Any fees or expenses of such services are included in the Contract Sum.

4.12 The Contractor agrees that no labor dispute of any kind involving the Contractor, or its employees or agents, shall be suffered or permitted to occur or be manifested on the Project and the Contractor agrees to that end to only employ persons on the Project who will work at all times in harmony with other persons employed on the Project.

4.12.1 The Contractor agrees that its employees shall not participate in or accede to any interference with the performance of work by other persons on the project, including but not limited to work stoppages, slow downs, or other job actions, whether or not such interference is the result of any labor dispute.

4.12.2. Should there be a work stoppage, slow down or any type of interference with the performance of Contractor's Work involving the Contractor or its employees, including but not limited to informational or other picketing or hand billing, strikes, slowdowns, or other interference with work directed to or involving Contractor or its employees or operations, resulting from a labor dispute and which in the judgment of the Construction Manager will cause, or threatens to cause delay in the progress of construction, then upon twenty-four (24) hours written notice the Construction Manager shall have the right to declare the Contractor in default under this Contract and take such steps as are necessary to finish the uncompleted portion of the Contractor's Work. In such event the Construction Manager shall have the right to take possession of and use all of the Contractor's materials (exclusive of tools) intended for use on the Contractor's Work. The cost of completion including all expenses, attorneys' fees and costs incurred in resolving the labor dispute shall be charged against any money then due or thereafter to become due to Contractor under this Agreement. If such cost of completion and other charges exceed the balance due Contractor, Contractor agrees to promptly pay the difference to the Construction Manager.

4.13 The parties recognize that the employment, discipline and discharge of the Contractor's employees are the sole and exclusive province and responsibility of Contractor. Nothing herein shall be understood or construed as a request or requirement on the part of the Construction Manager that Contractor hire, discipline, or discharge any person; provided, however, that if the Owner requires the Construction Manager to remove any individual or subcontractor from the Project, then Contractor shall promptly remove such individual or subcontractor from the Project.

4.14 The Contractor, including but not limited to its agents, representatives, employees, subcontractors and suppliers (collectively "Contractor") acknowledges that the terms of this Agreement and the Contract Documents provided by the Owner may contain non-public proprietary information including without limitation, trade secrets, patented or proprietary processes of the Construction Manager or Owner, pricing and completion terms, overall project costs and general conditions all of which the Contractor agrees to keep confidential (the "Confidential Information"). Contractor shall protect the Confidential Information from disclosure except as necessary for the completion of its Work, or the work of Contractor's accountants, tax preparers and agents or as may be ordered disclosed by a court of law. For purposes of this Agreement, the term "Confidential Information" will also mean design and/or performance criteria, applications for payments, financial data, business and marketing plans, sales and pricing strategies, and any other information marked as Confidential Information. Accordingly, Contractor shall not disclose to third parties nor use any Confidential Information, except in the limited instance that such Confidential Information at the time of receipt from Construction Manager or Owner, was in Contractor's prior possession, or thereafter becomes a matter of public knowledge other than by reason of breach of this Agreement, or that may thereafter be obtained by Contractor from a third party who is not under the obligation of secrecy or confidentiality to Construction Manager or Owner; and that unless approved by Construction Manager, Contractor shall not at any time publish or otherwise disclose engagement by Construction Manager under this Agreement except as is necessary in the performance of the Work.

Article 5

CHANGES IN THE WORK

5.1 The Contractor agrees that the Construction Manager may add to or deduct from the amount of the Contractor's Work covered by this Agreement, and any changes so made in the amount of Contractor's Work involved, or any other parts of this Agreement, shall be by a written amendment (Change Order) hereto setting forth in detail the changes involved and the value thereof which shall be mutually agreed upon in signed writing between the Construction Manager and Contractor. The Contractor agrees to proceed with the Contractor's Work as changed when so ordered in writing by the Construction Manager so as not to delay the progress of the Contractor's Work, pending any determination of the value thereof, unless Construction Manager first requests a proposal of cost before the change is affected. If the Construction Manager requests a proposal of cost for a change, the Contractor shall promptly comply within 5 business days of such request.

5.2 Contractor shall be entitled to receive no extra compensation for extra work or materials or changes of any kind regardless of whether the same was ordered by the Construction Manager or any of its representatives unless a Change Order therefore has been issued in writing by the Construction Manager. If extra work was ordered by the Construction Manager and the Contractor performed same but did not receive a written order therefore, the Contractor shall be deemed to have waived any claim for extra compensation, regardless of any written or verbal protests of claims by the Contractor. The Contractor shall be responsible for any costs incurred by the Construction Manager for changes of any kind made by the Contractor that increase the cost of the work for either the Construction Manager or other trade contractors when the Contractor proceeds with such changes without a written order therefore.

5.3 The Contractor agrees that no claim for additional services rendered or materials furnished by the Contractor to the Construction Manager shall be valid unless notice is given to the Construction Manager prior to the furnishing of the services or material or unless written notice of the claim and amount thereof is given by the Contractor to the Construction Manager on approved form not later than the last day of the calendar month following that in which the claim originated.

5.4 The Contractor will make all claims for extra compensation and for extension of time to the Construction Manager promptly in accordance with this Article and consistent with the Contract Documents.

5.5 Notwithstanding any other provision, if the work for which the Contractor claims extra compensation is determined by the Owner or Architect not to entitle the Construction Manager to a Change Order or extra compensation, then the Construction Manager shall not be liable to the Contractor for any extra compensation for such work, unless Construction Manager agrees in writing to extra compensation.

5.6 Contractor agrees that there shall be no backcharges or change orders submitted for work which is shown on the Contract Documents as work to be completed under the Contractor's Work.

5.7 Contractor agrees to submit change order proposals per Construction Manager's requirements and forms. The Construction Manager may, at any time during the progress of the Contractor's Work, alter, change, subtract from or add to the plans and specifications or scope of work without violating the contract terms thereof.

Article 6

INSURANCE AND INDEMNITY

6.1 The Contractor shall file with the Construction Manager copies of completed certificates of insurance, satisfactory to Construction Manager, to afford protection against all claims for damages to public or private property and injury to persons arising out of Contractor's Work as stated below or as provided in the Contract Documents, whichever is greater:

6.1.1. Contractor shall require all of its subcontractors providing equipment, materials or services directly to Contractor in connection with this Agreement to obtain, maintain and keep in force coverages in accordance with the greater of insurance requirements set forth in this Agreement and the Contract Documents during the time they are involved in performance of services or other work hereunder. Contractor shall obtain certificates of insurance evidencing such coverage prior to performing any of the Contractor's Work, and provide such certificates upon request of Construction Manager. Contractor shall not be excused from its obligations to cause its subcontractors of any tier to meet the greater of the insurance coverage requirements set forth in this Agreement or the Contract Documents unless Contractor shall have obtained in writing from Construction Manager a written waiver, which shall be effective only to such requirements and for such subcontractor specifically identified therein.

6.1.2. Employers' Liability and Workers' Compensation: The Contractor shall furnish evidence that it carries employers' liability and workers' compensation insurance. Employers' liability insurance limits shall not be less than $1,000,000 per accident, $1,000,000 per person for occupational disease, and $1,000,000 policy aggregate for occupational disease.

6.1.3. Commercial General Liability: Contractor shall furnish evidence that Contractor carries Commercial General Liability insurance providing for a limit of not less than $1,000,000 per occurrence/per project for all damages arising out of bodily injuries including death to persons and for all damages arising out of injury or destruction of property in any one accident, and subject to total or aggregate limit of $2,000,000 (per project) for all damages arising out of injuries to person or destruction of property during the policy period. General Liability insurance must include premises/operations, underground explosion and collapse, products and completed operations for at least three (3) years after final payment or longer if required by the Contract

Documents, as well as contractual liability coverage for the Contractor's indemnity obligations hereunder. If Contractor is required to furnish an external insulating finish system or deal with asbestos or any hazardous materials or pollutants or if specified by Construction Manager or required by the Contract Documents, Contractor shall carry environmental impairment/pollution liability insurance providing coverage on an occurrence basis for environmental hazards, including without limitation, lead, mold, asbestos and external insulating finish systems and to include sudden and accidental and environmental clean up with a combined single limit of $1,000,000. Such insurance shall be maintained at least three (3) years after final payment.

6.1.4. Automobile Liability: Contractor shall furnish evidence that Contractor carries automobile liability insurance providing a limit of not less than $1,000,000 for bodily injury, including death to persons and injury or destruction of property in any one accident. Automobile liability insurance must include owned, non-owned and hired car liability.

6.1.5. Umbrella Liability: Contractor shall furnish evidence that Contractor carries Umbrella liability insurance providing a limit of not less than $2,000,000 for bodily injury, including death to persons, and injury or destruction of property, in any one accident. The policy shall follow form with Contractor's other liability policies and shall not require horizontal exhaustion of any primary insurance carried by Owner or Construction Manager or their respective consultants or subcontractors.

6.1.6. Additional Insured and Waiver of Subrogation: The above policies of insurance shall include Construction Manager, the Owner and the Architect/Engineer as additional insured parties on a primary and non-contributory basis, including without limitation completed operations coverage, as respects all work performed by Contractor and shall include coverage for the contributory negligence of the additional insured parties. The Contractor's liability insurance and umbrella insurance coverage shall be exhausted before any of the Owner's or Construction Manager's insurance shall be available. Additional insured endorsement should be CG2010 (11/85) or equivalent, and a copy of such endorsement shall be furnished with the certificate of insurance. Contractor must waive all rights against Construction Manager, Owner and Architect/Engineer and their agents, officers, directors and employees for recovery of damages to the extent these damages are covered by commercial general liability, commercial umbrella liability, business auto liability or workers' compensation and employers' liability insurance maintained, per requirements stated above. Certificates of insurance must provide for said waiver of rights of subrogation to the extent permitted by law and must provide for 30 days written notice to Construction Manager prior to change or cancellation of any insurance policy coverage evidenced by said certificate.

6.1.7. Professional Liability: If the Contractor's work includes the furnishing of architect's, engineer's or other design services, then the Contractor or such architect, engineer or design professional, shall carry and maintain professional liability insurance for claims arising from the performance of such services with a minimum limit of Two Million Dollars ($2,000,000.00) per claim and in the aggregate and with a deductible not to exceed Twenty Five Thousand Dollars ($25,000.00). Such insurance shall be maintained until at least one (1) year after final payment.

6.2 Insurance Form and Duration: All of insurance herein specified shall be in a form acceptable to Construction Manager and shall be carried until all Contractor's Work is satisfactory as evidenced by Final Acceptance. Coverage must be commercial general liability "occurrence" form. "Claims-made" form will not be accepted. Minimum required limits can be a combination of Primary and Umbrella policies. Prior to starting work, the Contractor shall obtain and until final payment is made, maintain and pay for such insurance coverages of the types and with the minimum limits set forth herein. Products and completed operations insurance shall be maintained until at least three years after final payment. Contractor shall furnish certificates of insurance required hereunder to the Construction Manager before beginning work. However, the failure to provide such certificates of insurance prior to beginning Contractor's Work, shall, in no manner, be deemed a waiver of the requirement to provide such insurance and the failure of the Construction Manager to insist upon the providing of such certificates of insurance shall, in no manner, be deemed to be a waiver of the requirement of providing such insurance. Contractor acknowledges that the cost of the insurance required under this Agreement is included in the Contract Sum. The foregoing policies shall contain a provision that coverages afforded under the policies will not be canceled or not renewed until at least thirty (30) days' prior written notice has been given to the Construction Manager.

6.3 In the event Contractor fails to obtain or maintain the greater of any insurance coverage required under this Agreement or the Contract Documents, Construction Manager may purchase such coverage and charge the expense thereof to Contractor or terminate this Agreement.

6.4 Indemnity: To the fullest extent permitted by law, the Contractor shall indemnify, defend (with counsel satisfactory to the Construction Manager) and hold harmless the Construction Manager, Owner, Architect/Engineer and the consultants, agents, board members, officers, and employees of any of them from and against claims, damages, losses and expenses, including, but not limited to, attorneys' fees, expert witness fees, investigation costs and related expenses arising directly or indirectly out of the obligations herein undertaken or arising out of operations conducted by the Contractor, the Contractor's subcontractors, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, except claims, damages or litigation to the extent caused by or resulting from the gross negligence, recklessness or intentional misconduct of the party indemnified hereunder, including claims or litigation caused by or resulting from the sole negligence of any such indemnified party. Such obligation shall not negate, abridge or otherwise reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this Paragraph. The parties intend that Contractor shall be obligated to indemnify the Construction Manager, Owner, Architect/Engineer and the consultants, agents and

employees of any of them for such parties' contributory negligence and the Contractor's commercial general liability insurance shall provide coverage for such indemnity obligations as well as coverage for the indemnified parties' contributory negligence as provided above. If the required insurance is not maintained as required, then the Contractor's indemnity obligation shall apply as though the required insurance were in effect. In any and all claims against the Owner and/or Construction Manager or any of their respective agents, board members, officers, directors, shareholders or employees by any employee of the Contractor, anyone directly or indirectly employed by him or anyone for whose acts Contractor may be liable, the indemnification obligation under this Paragraph 6.4 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 under Worker's Compensation acts, disability benefit acts or other employee benefit acts. The obligations of the Contractor under this Paragraph 6.4 shall not extend to the liability of the Architect/Engineer, its agents or employees, arising out of (1) the preparation or approval of maps, drawings, opinions, reports, surveys, Change Orders, designs or specifications, or (2) the giving of or failure to give directions or instructions by the Architect/Engineer, its agents or employees.

Article 7

BONDS

7.1 A Performance Bond and a Labor and Material Payment Bond in forms satisfactory to the Owner shall be furnished in the full amount of this Agreement.

Article 8

WARRANTY

8.1 The Contractor agrees to promptly make good without cost to the Owner or Construction Manager any and all defects due to faulty workmanship and/or materials which may appear within the greater of (1) one year from the date of completion and Final Acceptance of the entire Project by the Owner or (2) as otherwise specified and established in the Contract Documents. If there is no limitation on the guaranty or warranty period established in the Contract Documents, then no limitation shall apply. The Contractor further agrees to execute any special guarantees as provided by the terms of the Contract Documents and included in Contractors Work, prior to final payment.

Article 9

CONTRACTOR'S OBLIGATIONS

9.1 Contractor binds itself to the Construction Manager such that Contractor's performance of Contractor's Work shall be such as Contractor will meet and comply with all requirements, responsibilities, obligations and restrictions of the Construction Manager under Construction Manager's contract with the Owner.

9.2 Reserved.

9.3 Construction Manager shall not issue or give any instruction, order or directions directly to employees or workmen of the Contractor other than to the persons designated as the authorized representative(s) of the Contractor.

9.4 Liquidated damages for delay, if provided for in the Contract Documents, may be assessed against the Contractor to the extent caused by the Contractor or any person or entity for whose acts the Contractor may be liable. The Construction Manager shall make no demand for liquidated damages in any sum in excess of the amount specifically named in this Agreement or the Contract Documents. This provision does not preclude any claim the Construction Manager may have for direct damages under law.

9.5 The Contractor will furnish those temporary facilities and services required by the Contractor, including but not limited to, drinking water, office and any other shelter, engineered layout, necessary temporary construction utilities including hook-ups, items not specifically identified as Construction Manager-furnished items in Article 9, and as noted in paragraph 2.2. Adequate storage area, if available, will be allocated by the Construction Manager for the Contractor's materials and equipment during the course of the Project. The Contractor is responsible for safe and secure storage of materials and equipment, including enclosures and/or containers to be located onsite.

9.6 Reserved.

9.7 The Construction Manager shall have no obligation to make payment to Contractor for its work hereunder until Construction Manager has received payment therefore from Owner or its agent.

Article 10

TERMINATION

10.1 Should the Contractor fail at any time to supply a sufficient number of properly skilled workmen or sufficient materials and equipment of the proper quality, or fail in any respect to prosecute the Contractor's Work with promptness and diligence, or fail to promptly correct defective work or fail in the performance of any of the agreements herein contained, the Construction Manager may, at its option, perform the Contractor's obligations and utilize the Contractor's equipment and materials on the job site in connection therewith. The Construction Manager may provide such labor, materials and equipment and deduct the cost thereof, together with all loss or damage occasioned thereby, from any money then due or thereafter to become due to the Contractor under this Agreement.

10.2 If the Contractor at any time shall refuse or neglect to supply sufficient properly skilled workmen, or materials or equipment of the proper quality and quantity, or fail in any respect to prosecute Contractor's Work with promptness and diligence, or cause by any action or omissions the stoppage

or interference with the work of the Construction Manager or other trade contractors, or fail in the performance of any of the covenants herein contained, or in any other agreement between Contractor and Construction Manager, or be unable to meet its debts as they mature, the Construction Manager may at its option at any time after serving written notice of such default with direction to cure in a specific period, but not less than two (2) working days, and the Contractor fails to cure the default, terminate the Contractor's employment by delivering written notice of termination to the Contractor. Thereafter, the Construction Manager may take possession of the plant and work, materials, tools, appliances and equipment of the Contractor at the building site, and through himself or others provide labor, equipment and materials to prosecute Contractor's Work on such terms and conditions as shall be deemed necessary, and shall deduct the cost thereof, including without restriction thereto all charges, expenses, losses, costs, damages, and attorney's fees, incurred as a result of the Contractor's failure to perform, from any money then due or thereafter to become due to the Contractor under this Agreement. Such charges and expenses shall include the time spent by Construction Manager's administrative personnel including without limitation company executives and Project Managers.

10.3 If the Construction Manager so terminates the employment of the Contractor, the Contractor shall not be entitled to any further payments under this Agreement until Contractor's Work has been completed and accepted by the Owner and Construction Manager with respect thereto and Construction manager has received payment for such Work from Owner. In the event that the cost of completion and other charges provided in paragraph 10.2 above exceed the balance due to the Contractor, the Contractor agrees promptly to pay the difference to the Construction Manager.

10.4 Construction Manager shall have the right to terminate this Contract with no further obligation to Contractor beyond fair compensation for such Contractor's actual services rendered through the date of termination if (a) Contractor files for protection under the federal bankruptcy laws or if any involuntary bankruptcy proceeding is filed against it which is not dismissed within 10 days after filing; (b) Contractor makes a transfer or assignment of its assets for benefits of creditors; (c) the Owner requires Construction Manager to remove Contractor from the Project; or (d) the Owner terminates its contract with the Construction Manager for any reason, with or without cause.

Article 11

CLAIMS

11.1 The Contractor shall make all claims in writing to the Construction Manager not later than the last day of the calendar month following that in which the claim originated.

11.2 All claims, disputes and other matters arising out of, or relating to, this Agreement or the breach thereof where the claimant seeks to recover less than Two Hundred and Fifty Thousand Dollars ($250,000)(not including interest and attorney's fees) shall be decided through arbitration in accordance with the Construction Industry Arbitration Rules of American Arbitration Association then in force, as modified herein, unless the parties mutually agree otherwise. All claims, disputes and other matters where the claimant seeks more than Two Hundred and Fifty Thousand Dollars ($250,000) (not including interest and attorney's fees) arising out of, or relating to, this Agreement or the breach thereof shall be decided through litigation commenced and pursued in the Circuit Court of St. Louis County, Missouri. The prevailing party in any such arbitration or court action shall be entitled to recover its attorneys' fees, expert witness fees, investigation costs and related expenses from the other party.

11.3 Should the Construction Manager enter into arbitration or litigation with the Owner or others regarding disputes arising out of or relating to this Agreement, the Contractor consents to being joined as a party to such arbitration or litigation. Contractor shall be bound by the result of any arbitration or litigation to the same degree as the Construction Manager.

11.4 Contractor represents, warrants, stipulates, and agrees that it is solely and exclusively in charge of and responsible for its own equipment, scaffolds, working structures and machinery, and is solely and exclusively responsible for the maintenance and safe working operations and conditions of said equipment, scaffolds, working structures and machinery. Contractor represents, warrants, stipulates, and agrees that it is solely and exclusively responsible for notifying its employees of the proper and safe utilization of all equipment, scaffolds, working structures and machinery; for notifying its employees of safe operating conditions and procedures, and that Construction Manager does not assume any responsibility for any such equipment, scaffolds, working structures or machinery, or such notification.

11.4.1 Contractor hereby represents, warrants, stipulates, and agrees that any and all equipment, scaffolds, working structures and machinery furnished by Contractor and/or used by Contractor's employees are in compliance with, and at all times will be kept in compliance with, any and all applicable federal, state, and local laws, ordinances, regulations, statutes, codes and safety standards, including, but not limited to, all of the Rules, Regulations and Safety Standards under the Federal Occupational Safety and Health Act and any applicable state Safety and Health Act. Contractor expressly assumes any and all liability for any and all claims or damages resulting from a violation of any such standards.

11.5 Contractor shall indemnify and hold Owner, Construction Manager and their respective officers, directors, shareholders, members, servants, agents, and employees harmless from any and all liability, penalties, demands, claims, causes of action, expenses, suits, damages or injury of any kind (including the cost of defense, settlement, and attorney's fees, expert witness fees, investigation costs and related expenses), which any or all of them may hereafter suffer, incur, be responsible for or pay out as a result of any breach by Contractor of any representation, warranty, stipulation or agreement of Contractor hereunder.

11.6 In any action by any employee of Contractor against Construction Manager or Owner under any state or municipal statute or law, Contractor shall assume the defense of such action, retain counsel of Construction Manager's and Owner's choosing, and pay all of the expenses of such defense, whether or not Contractor is obligated to indemnify Construction Manager or Owner under the provisions of Article 6 hereof.

11.7 The Contractor shall carry on Contractor's Work and maintain its progress during any mediation or litigation .

Article 12

PREVAILING LAW

12.1 This Agreement shall be governed by the laws of the State of Missouri.

Article 13

INVALID PROVISION

13.1 If any provision of this Agreement or the application thereof to any parties hereunder or any other persons shall to any extent be held by a court of competent jurisdiction to be invalid or unenforceable, the remainder of this Agreement or the application of such provision to the parties or such persons or circumstances other than those to which it is held invalid or unenforceable shall not be affected thereby, and each other provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

Article 14

DEFINITIONS

14.1 As used throughout this Agreement, the following terms and expressions have the meanings and interpretation set forth below.

- "**Agreement**" and "**Contract**" mean this written Trade Contract executed between Construction Manager and Contractor.
- "**Construction Manager**" means the entity identified as such on the face page of this Agreement.
- "**Contractor**" means the entity identified as such on the face page of this Agreement.
- "**Detail Schedule**" refers to the weekly look-ahead schedule providing greater detail to the work to be performed in the Project Schedule.
- "**Estimate**" refers to the Contractor's estimate of Work completed to date, as submitted monthly to the Construction Manager for review and approval.
- "**Exhibit**" refers to additional requirements as attached to this Agreement.
- "**Final Acceptance**" refers to the Owner's complete and final acceptance of the Project as a whole.
- "**Final Payment**" refers to the payment based on the Contractor's final Estimate, including only the sum of the reserved balance from previous payments.
- "**Owner**" refers to the entity identified as Owner on the face page of this Agreement.
- "**Project Schedule**" means the overall schedule identifying all scopes of work for the entire Project, including the Work provided by Contractor.
- "**Site**", "**Worksite**" and/or "**Jobsite**" refer to Owner's premises.
- "**Contractor**" means the entity identified as such on the face page of this Agreement.
- The "**Work**" shall mean all services, labor, material, equipment and actions necessary for the Contractor's performance of this Agreement. In certain context, the Work may also include the entire completed construction or the various separately identifiable parts thereof required to be performed or furnished in accordance with this Agreement.

THIS AGREEMENT CONTAINS A BINDING ARBITRATION CLAUSE WHICH MAY BE ENFORCED BY THE PARTIES.

[SIGNATURES APPEAR ON NEXT PAGE]

IN WITNESS WHEREOF the parties hereto have executed this Agreement the day and year first above written.

«CONTRACTOR_NAME»

By_____ Date_____

*Printed Name:*_____

*Title:*_____

POETTKER CONSTRUCTION COMPANY,
CONSTRUCTION MANAGER, AS ASSIGNEE OF THE OWNER

By_____ Date_____

*Printed Name:*_____

*Title:*_____

PARKWAY SCHOOL DISTRICT,
OWNER

By_____ Date_____

*Printed Name:*_____

*Title:*_____

SECTION 006000
PROJECT FORMS

PART 1 GENERAL

1.01 PROJECT FORMS

A. The Forms to be executed that are referenced in Section 005000 - Contracting Forms and Supplements and in the various sections of this Project Manual are attached at the end of this document.

B. The forms attached are as follows:
   1. Contractor's Qualification Statement: AIA A305
   2. Bid Bond: AIA A310
   3. Performance and Payment Bond: AIA A312
   4. Owner's Standard Schedule of Values Form
   5. Owner's Standard Application for Payment Form
   6. Substance Abuse and Safety Program Supplier/Vendor/Visitor Acknowledgement Form
   7. OSHA 10-Hour Construction Safety And Health Training Log Form
   8. Affidavit of Compliance With the Prevailing Wage Law
   9. Affidavit of Record Document Completion

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 006000

AIA® Document A305® – 2020

Contractor's Qualification Statement

THE PARTIES SHOULD EXECUTE A SEPARATE CONFIDENTIALITY AGREEMENT IF THEY INTEND FOR ANY OF THE INFORMATION IN THIS A305-2020 TO BE HELD CONFIDENTIAL.

SUBMITTED BY:
(Organization name and address.)

SUBMITTED TO:
(Organization name and address.)

TYPE OF WORK TYPICALLY PERFORMED
(Indicate the type of work your organization typically performs, such as general contracting, construction manager as constructor services, HVAC contracting, electrical contracting, plumbing contracting, or other.)

THIS CONTRACTOR'S QUALIFICATION STATEMENT INCLUDES THE FOLLOWING:
(Check all that apply.)

- [X] Exhibit A – General Information
- [X] Exhibit B – Financial and Performance Information
- [X] Exhibit C – Project-Specific Information
- [X] Exhibit D – Past Project Experience
- [ ] Exhibit E – Past Project Experience (Continued)

CONTRACTOR CERTIFICATION
The undersigned certifies under oath that the information provided in this Contractor's Qualification Statement is true and sufficiently complete so as not to be misleading.

Organization's Authorized Representative Signature

Date

Printed Name and Title

NOTARY
State of:
County of:
Signed and sworn to before me this day of

Notary Signature

My commission expires:

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AIA® Document A305® – 2020 Exhibit A

General Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by and dated the day of in the year
(In words, indicate day, month and year.)

§ A.1 ORGANIZATION
§ A.1.1 Name and Location
§ A.1.1.1 Identify the full legal name of your organization.

§ A.1.1.2 List all other names under which your organization currently does business and, for each name, identify jurisdictions in which it is registered to do business under that trade name.

§ A.1.1.3 List all prior names under which your organization has operated and, for each name, indicate the date range and jurisdiction in which it was used.

§ A.1.1.4 Identify the address of your organization's principal place of business and list all office locations out of which your organization conducts business. If your organization has multiple offices, you may attach an exhibit or refer to a website.

§ A.1.2 Legal Status
§ A.1.2.1 Identify the legal status under which your organization does business, such as sole proprietorship, partnership, corporation, limited liability corporation, joint venture, or other.

.1 If your organization is a corporation, identify the state in which it is incorporated, the date of incorporation, and its four highest-ranking corporate officers and their titles, as applicable.

.2 If your organization is a partnership, identify its partners and its date of organization.

.3 If your organization is individually owned, identify its owner and date of organization.

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User Notes: (1198815333)

.4 If the form of your organization is other than those listed above, describe it and identify its individual leaders:

§ A.1.2.2 Does your organization own, in whole or in part, any other construction-related businesses? If so, identify and describe those businesses and specify percentage of ownership.

§ A.1.3 Other Information

§ A.1.3.1 How many years has your organization been in business?

§ A.1.3.2 How many full-time employees work for your organization?

§ A.1.3.3 List your North American Industry Classification System (NAICS) codes and titles. Specify which is your primary NAICS code.

§ A.1.3.4 Indicate whether your organization is certified as a governmentally recognized special business class, such as a minority business enterprise, woman business enterprise, service disabled veteran owned small business, woman owned small business, small business in a HUBZone, or a small disadvantaged business in the 8(a) Business Development Program. For each, identify the certifying authority and indicate jurisdictions to which such certification applies.

§ A.2 EXPERIENCE

§ A.2.1 Complete Exhibit D to describe up to four projects, either completed or in progress, that are representative of your organization's experience and capabilities.

§ A.2.2 State your organization's total dollar value of work currently under contract.

§ A.2.3 Of the amount stated in Section A.2.2, state the dollar value of work that remains to be completed:

§ A.2.4 State your organization's average annual dollar value of construction work performed during the last five years.

§ A.3 CAPABILITIES

§ A.3.1 List the categories of work that your organization typically self-performs.

§ A.3.2 Identify qualities, accreditations, services, skills, or personnel that you believe differentiate your organization from others.

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§ **A.3.3** Does your organization provide design collaboration or pre-construction services? If so, describe those services.

§ **A.3.4** Does your organization use building information modeling (BIM)? If so, describe how your organization uses BIM and identify BIM software that your organization regularly uses.

§ **A.3.5** Does your organization use a project management information system? If so, identify that system.

§ A.4 REFERENCES

§ **A.4.1** Identify three client references:
(Insert name, organization, and contact information)

§ **A.4.2** Identify three architect references:
(Insert name, organization, and contact information)

§ **A.4.3** Identify one bank reference:
(Insert name, organization, and contact information)

§ **A.4.4** Identify three subcontractor or other trade references:
(Insert name, organization, and contact information)

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AIA® Document A305® – 2020 Exhibit B

Financial and Performance Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by and dated the day of in the year
(In words, indicate day, month and year.)

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§ B.1 FINANCIAL

§ B.1.1 Federal tax identification number:

§ B.1.2 Attach financial statements for the last three years prepared in accordance with Generally Accepted Accounting Principles, including your organization's latest balance sheet and income statement. Also, indicate the name and contact information of the firm that prepared each financial statement.

§ B.1.3 Has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, been the subject of any bankruptcy proceeding within the last ten years?

§ B.1.4 Identify your organization's preferred credit rating agency and identification information.
(Identify rating agency, such as Dun and Bradstreet or Equifax, and insert your organization's identification number or other method of searching your organization's credit rating with such agency.)

§ B.2 DISPUTES AND DISCIPLINARY ACTIONS

§ B.2.1 Are there any pending or outstanding judgments, arbitration proceedings, bond claims, or lawsuits against your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, or any of the individuals listed in Exhibit A, Section 1.2, in which the amount in dispute is more than $75,000?
(If the answer is yes, provide an explanation.)

§ B.2.2 In the last five years has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management:
(If the answer to any of the questions below is yes, provide an explanation.)

.1 failed to complete work awarded to it?

.2 been terminated for any reason except for an owners' convenience?

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.3 had any judgments, settlements, or awards pertaining to a construction project in which your organization was responsible for more than $75,000?

.4 filed any lawsuits or requested arbitration regarding a construction project?

§ B.2.3 In the last five years, has your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management; or any of the individuals listed in Exhibit A Section 1.2:
(If the answer to any of the questions below is yes, provide an explanation.)

.1 been convicted of, or indicted for, a business-related crime?

.2 had any business or professional license subjected to disciplinary action?

.3 been penalized or fined by a state or federal environmental agency?

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AIA® Document A305® – 2020 Exhibit C

Project Specific Information

This Exhibit is part of the Contractor's Qualification Statement, submitted by and dated the day of in the year
(In words, indicate day, month and year.)

PROJECT:
(Name and location or address.)

PN432502B – West Middle School
2312 Baxter Road
Chesterfield, Missouri 63017

PN542501B – West High School
14653 Clayton Road
Ballwin, Missouri 63011

PN652501B – Early Childhood Center West
14605 Clayton Road
Ballwin, Missouri 63011

Bid No. 27-60

CONTRACTOR'S PROJECT OFFICE:
(Identify the office out of which the contractor proposes to perform the work for the Project.)

TYPE OF WORK SOUGHT
(Indicate the type of work you are seeking for this Project, such as general contracting, construction manager as constructor, design-build, HVAC subcontracting, electrical subcontracting, plumbing subcontracting, etc.)

CONFLICT OF INTEREST
Describe any conflict of interest your organization, its parent, or a subsidiary, affiliate, or other entity having common ownership or management, or any of the individuals listed in Exhibit A Section 1.2, may have regarding this Project.

§ C.1 PERFORMANCE OF THE WORK
§ C.1.1 When was the Contractor's Project Office established?

§ C.1.2 How many full-time field and office staff are respectively employed at the Contractor's Project Office?

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§ **C.1.3** List the business license and contractor license or registration numbers for the Contractor's Project Office that pertain to the Project.

§ **C.1.4** Identify key personnel from your organization who will be meaningfully involved with work on this Project and indicate (1) their position on the Project team, (2) their office location, (3) their expertise and experience, and (4) projects similar to the Project on which they have worked.

§ **C.1.5** Identify portions of work that you intend to self-perform on this Project.

§ **C.1.6** To the extent known, list the subcontractors you intend to use for major portions of work on the Project.

§ C.2 EXPERIENCE RELATED TO THE PROJECT

§ **C.2.1** Complete Exhibit D to describe up to four projects performed by the Contractor's Project Office, either completed or in progress, that are relevant to this Project, such as projects in a similar geographic area or of similar project type. If you have already completed Exhibit D, but want to provide further examples of projects that are relevant to this Project, you may complete Exhibit E.

§ **C.2.2** State the total dollar value of work currently under contract at the Contractor's Project Office:

§ **C.2.3** Of the amount stated in Section C.2.2, state the dollar value of work that remains to be completed:

§ **C.2.4** State the average annual dollar value of construction work performed by the Contractor's Project Office during the last five years.

§ **C.2.5** List the total number of projects the Contractor's Project Office has completed in the last five years and state the dollar value of the largest contract the Contractor's Project Office has completed during that time.

§ C.3 SAFETY PROGRAM AND RECORD

§ **C.3.1** Does the Contractor's Project Office have a written safety program?

§ **C.3.2** List all safety-related citations and penalties the Contractor's Project Office has received in the last three years.

§ **C.3.3** Attach the Contractor's Project Office's OSHA 300a Summary of Work-Related Injuries and Illnesses form for the last three years.

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§ **C.3.4** Attach a copy of your insurance agent's verification letter for your organization's current workers' compensation experience modification rate and rates for the last three years.

§ C.4 INSURANCE

§ **C.4.1** Attach current certificates of insurance for your commercial general liability policy, umbrella insurance policy, and professional liability insurance policy, if any. Identify deductibles or self-insured retentions for your commercial general liability policy.

§ **C.4.2** If requested, will your organization be able to provide property insurance for the Project written on a builder's risk "all-risks" completed value or equivalent policy form and sufficient to cover the total value of the entire Project on a replacement cost basis?

§ **C.4.3** Does your commercial general liability policy contain any exclusions or restrictions of coverage that are prohibited in AIA Document A101-2017, Exhibit A, Insurance A.3.2.2.2? If so, identify.

§ C.5 SURETY

§ **C.5.1** If requested, will your organization be able to provide a performance and payment bond for this Project?

§ **C.5.2** Surety company name:

§ **C.5.3** Surety agent name and contact information:

§ **C.5.4** Total bonding capacity:

§ **C.5.5** Available bonding capacity as of the date of this qualification statement:

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AIA® Document A305® – 2020 Exhibit D

Contractor's Past Project Experience

	1	2	3	4
PROJECT NAME				
PROJECT LOCATION				
PROJECT TYPE				
OWNER				
ARCHITECT				
CONTRACTOR'S PROJECT EXECUTIVE				
KEY PERSONNEL (include titles)				
PROJECT DETAILS	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work	Contract Amount Completion Date % Self-Performed Work
PROJECT DELIVERY METHOD	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:	☐ Design-bid-build ☐ Design-build ☐ CM constructor ☐ CM advisor ☐ Other:
SUSTAINABILITY CERTIFICATIONS				

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AIA® Document A310™ – 2010

Bid Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
(Name, legal status and address)

BOND AMOUNT: $

PROJECT:
(Name, location or address, and Project number, if any)
PN432502B – West Middle School
2312 Baxter Road
Chesterfield, Missouri 63017

PN542501B – West High School
14653 Clayton Road
Ballwin, Missouri 63011

PN652501B – Early Childhood Center West
14605 Clayton Road
Ballwin, Missouri 63011

Bid No. 27-60

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

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Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

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User Notes: (793003076)

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this day of ,

	(Contractor as Principal) *(Seal)*
(Witness)	*(Title)*
	(Surety) *(Seal)*
(Witness)	*(Title)*

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User Notes: (793003076)

AIA® Document A312® – 2010

Performance Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
(Name, legal status and address)
Obligee 1:
Parkway School District
455 North Woods Mill Road
Chesterfield, Missouri 63017

Obligee 2:
Poettker Construction Company
Construction Manager: As Assignee of Owner
400 South Germantown Road
Breese, Illinois 62230

CONSTRUCTION CONTRACT
Date:
Amount: $ 0.00
Description:
(Name and location)
PN432502B – West Middle School
2312 Baxter Road
Chesterfield, Missouri 63017

PN542501B – West High School
14653 Clayton Road
Ballwin, Missouri 63011

PN652501B – Early Childhood Center West
14605 Clayton Road
Ballwin, Missouri 63011

Bid No. 27-60

BOND
Date:
(Not earlier than Construction Contract Date)

Amount: $
Modifications to this Bond: ☐ None ☐ See Section 16

CONTRACTOR AS PRINCIPAL
Company: *(Corporate Seal)*

SURETY
Company: *(Corporate Seal)*

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Init.
/
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User Notes: (946624825)

Signature: _____	Signature: _____
Name and Title:	Name and Title:

(Any additional signatures appear on the last page of this Performance Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)

AGENT or **BROKER:**	**OWNER'S REPRESENTATIVE:**
	(Architect, Engineer or other party:)

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User Notes: (946624825)

§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

§ 2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Section 3.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond shall arise after

.1 the Owner first provides notice to the Contractor and the Surety that the Owner is considering declaring a Contractor Default. Such notice shall indicate whether the Owner is requesting a conference among the Owner, Contractor and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Section 3.1 shall be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default;

.2 the Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and

.3 the Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.

§ 4 Failure on the part of the Owner to comply with the notice requirement in Section 3.1 shall not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.

§ 5 When the Owner has satisfied the conditions of Section 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

§ 5.1 Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;

§ 5.2 Undertake to perform and complete the Construction Contract itself, through its agents or independent contractors;

§ 5.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Section 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or

§ 5.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:

.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or

.2 Deny liability in whole or in part and notify the Owner, citing the reasons for denial.

§ 6 If the Surety does not proceed as provided in Section 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Section 5.4, and the Owner refuses the payment or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

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User Notes: (946624825)

§ 7 If the Surety elects to act under Section 5.1, 5.2 or 5.3, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication, for

.1 the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;

.2 additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Section 5; and

.3 liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

§ 8 If the Surety elects to act under Section 5.1, 5.3 or 5.4, the Surety's liability is limited to the amount of this Bond.

§ 9 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, successors and assigns.

§ 10 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 11 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 12 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears.

§ 13 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 14 Definitions

§ 14.1 Balance of the Contract Price. The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

§ 14.2 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.

§ 14.3 Contractor Default. Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.

§ 14.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 14.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.

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User Notes: (946624825)

§ 15 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 16 Modifications to this bond are as follows:

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:	_____	Signature:	_____
Name and Title:		Name and Title:	
Address:		Address:	

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AIA® Document A312® – 2010

Payment Bond

CONTRACTOR:
(Name, legal status and address)

SURETY:
(Name, legal status and principal place of business)

OWNER:
(Name, legal status and address)
Obligee 1:
Parkway School District
455 North Woods Mill Road
Chesterfield, Missouri 63017

Obligee 2:
Poettker Construction Company
Construction Manager: As Assignee of Owner
400 South Germantown Road
Breese, Illinois 62230

Bid No. 27-60

CONSTRUCTION CONTRACT
Date:
Amount: $ 0.00
Description:
(Name and location)
PN432502B – West Middle School
2312 Baxter Road
Chesterfield, Missouri 63017

PN542501B – West High School
14653 Clayton Road
Ballwin, Missouri 63011

PN652501B – Early Childhood Center West
14605 Clayton Road
Ballwin, Missouri 63011

Bid No. 27-60

BOND
Date:
(Not earlier than Construction Contract Date)

Amount: $
Modifications to this Bond: ☐ None ☐ See Section 18

CONTRACTOR AS PRINCIPAL
Company: *(Corporate Seal)*

SURETY
Company: *(Corporate Seal)*

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

Init.
/

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User Notes: (1467430257)

Signature: _____ Signature: _____
Name and Title: Name and Title:
(Any additional signatures appear on the last page of this Payment Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)

AGENT or **BROKER:**

OWNER'S REPRESENTATIVE:
(Architect, Engineer or other party:)

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User Notes: (1467430257)

§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner to pay for labor, materials and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.

§ 2 If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies and holds harmless the Owner from claims, demands, liens or suits by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Section 13) of claims, demands, liens or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract and tendered defense of such claims, demands, liens or suits to the Contractor and the Surety.

§ 4 When the Owner has satisfied the conditions in Section 3, the Surety shall promptly and at the Surety's expense defend, indemnify and hold harmless the Owner against a duly tendered claim, demand, lien or suit.

§ 5 The Surety's obligations to a Claimant under this Bond shall arise after the following:

§ 5.1 Claimants, who do not have a direct contract with the Contractor,

.1 have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and

.2 have sent a Claim to the Surety (at the address described in Section 13).

§ 5.2 Claimants, who are employed by or have a direct contract with the Contractor, have sent a Claim to the Surety (at the address described in Section 13).

§ 6 If a notice of non-payment required by Section 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Section 5.1.1.

§ 7 When a Claimant has satisfied the conditions of Sections 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:

§ 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and

§ 7.2 Pay or arrange for payment of any undisputed amounts.

§ 7.3 The Surety's failure to discharge its obligations under Section 7.1 or Section 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Section 7.1 or Section 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.

§ 8 The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Section 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.

§ 9 Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.

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User Notes: (1467430257)

§ 10 The Surety shall not be liable to the Owner, Claimants or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to, or give notice on behalf of, Claimants or otherwise have any obligations to Claimants under this Bond.

§ 11 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 12 No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Section 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 13 Notice and Claims to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, shall be sufficient compliance as of the date received.

§ 14 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 15 Upon request by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.

§ 16 Definitions

§ 16.1 Claim. A written statement by the Claimant including at a minimum:

- **.1** the name of the Claimant;
- **.2** the name of the person for whom the labor was done, or materials or equipment furnished;
- **.3** a copy of the agreement or purchase order pursuant to which labor, materials or equipment was furnished for use in the performance of the Construction Contract;
- **.4** a brief description of the labor, materials or equipment furnished;
- **.5** the date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
- **.6** the total amount earned by the Claimant for labor, materials or equipment furnished as of the date of the Claim;
- **.7** the total amount of previous payments received by the Claimant; and
- **.8** the total amount due and unpaid to the Claimant for labor, materials or equipment furnished as of the date of the Claim.

§ 16.2 Claimant. An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.

§ 16.3 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.

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§ 16.4 Owner Default. Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 16.5 Contract Documents. All the documents that comprise the agreement between the Owner and Contractor.

§ 17 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 18 Modifications to this bond are as follows:

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL		**SURETY**	
Company:	*(Corporate Seal)*	Company:	*(Corporate Seal)*
Signature:	_____	Signature:	_____
Name and Title:		Name and Title:	
Address:		Address:	

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User Notes: (1467430257)

SCHEDULE OF VALUES - CONTINUATION SHEET

PAGE NO: 1 TO:

FROM: 0
0
0

APPLICATION NUMBER: 0

PERIOD TO: 1/0/1900

PROJECT NO.: 0

CONTRACT NO.: 0

PROJECT NAME: 0

CONTRACT FOR: 0

A	B	C	D	E	F	G		H	I
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED			TOTAL COMPLETE AND STORED TO DATE (D+E+F)	% GC	BALANCE TO FINISH (C-G)	RETAINAGE 5%
			PREVIOUS APPLICATIONS	THIS APPLICATION					
				WORK IN PLACE	STORED MATERIALS				
001	Project Closeouts	-				-	#DIV/0!	-	-
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Contract Totals or Page 1 Total		$ -	$ -	$ -	$ -	$ -	#DIV/0!	$ -	$ -

Application and Certificate for Payment

TO: Poettker Construction Company	PROJECT NO.:		APPLICATION NO:
400 S Germantown Rd.	PROJECT NAME:		
Breese, IL 62230			PERIOD TO:
FROM:	ARCHITECT:		CONTRACT FOR:
			CONTRACT DATE:
			CONTRACT NO.:

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment, as shown below, in connection with the Contract.

Schedule of Values - Continuation Sheet is attached.

1. Original Contract Sum		
2. Net Change by Change Order	$	-
3. Contract Sum to Date (Line 1 & 2)	$	-
4. Total Completed & Stored to Date (Column G on SOV)	$	-
5. Retainage		
a. 5 % of Completed Work (Column D + Column E on SOV)	$ -	
b. 5 % of Stored Material (Column F on SOV)	$ -	
Total Retainage (Lines 5a + 5b or Total in Column I of SOV)	$	-
6. Total Earned Less Retainage (Line 4 Less Line 5 Total)	$	-
7. Less Previous Certificates for Payment (Line 6 from prior certificates)	$	-
8. Current Payment Due	$	-
9. Balance to Finish, Including Retainage (Line 3 less Line 6)	$	-

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work coverd by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certifictes for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR:

By: _____ Date: _____

State of

County

Subscribed and sworn to before me this day of

Notary Public _____

My Commission expires:

CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on evaluations of the Work and the data comprising this application, the Construction Manager and Architect certify to the Owner that to the best of the thier knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED . . . . . .

(Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and in the Schedule of Values - Continuation Sheet that are changed to conform with the amount certified.)

CONSTRUCTION MANAGER

By: _____ Date:

ARCHITECT

By: _____ Date:

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only ot the Contrator named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS
Total changes approved in previous months by Owner	$0.00	$0.00
Total approved this month	$0.00	$0.00
TOTALS:	$0.00	$0.00
NET CHANGES BY CHANGE ORDER:	**$0.00**	

Substance Abuse and Safety Program
Supplier/Vendor/Visitor Acknowledgement

I,_____, acknowledge and understand that a Substance Abuse and Safety Program is in effect on this job site and that I will be expected to abide by these job site rules.

I agree not to use, possess, sell or distribute alcoholic beverages, drugs, or drug paraphernalia, drug look-alikes, firearms, weapons, explosives, ammunition, or other prohibited items on this job site. I understand that violations will result in expulsion from this job site.

I understand my involvement in an accident or other circumstances may cause the Owner, Contractor or Subcontractor to require me to have urine, blood, or saliva drug and/or alcohol test as called for in the Program. While my cooperation is voluntary, I understand that failure to cooperate will result in expulsion from this job site. This document does not supersede other job site rules, but is in addition to them.

ACKNOWLEDGEMENT AND ACCEPTANCE:

Signature _____ Date_____

Print Name _____

Company _____

FIRE ALARM SYSTEM
RECORD OF COMPLETION

Name of protected property: _____
Address: _____
Representative of protected property (name/phone): _____
Authority having jurisdiction: _____
Address/telephone number: _____

Organization name / phone *Representative name / phone*

Installer _____
Supplier _____
Service organization _____
Location of record (as-built) drawings: _____
Location of operation and maintenance manuals: _____
Location of test reports: _____
A contract for test and inspection in accordance with NFPA standard(s)
Contract No(s): _____ Effective date: _____ Expiration date: _____

System Software
(a) Operating system (executive) software revision level(s): _____
(b) Site-specific software revision date: _____
(c) Revision completed by: _____
(name) (firm)

1. Type(s) of System or Service

_____ *NFPA 72,* Chapter 6 — Local
If alarm is transmitted to location(s) off premises, list where received: _____
_____

_____ *NFPA 72,* Chapter 8 — Remote Station
Telephone numbers of the organization receiving alarm:
Alarm: _____
Supervisory: _____
Trouble: _____
If alarms are retransmitted to public fire service communications centers or others, indicate location and telephone numbers of the organization receiving alarm: _____
_____
Indicate how alarm is retransmitted: _____

_____ *NFPA 72,* Chapter 8 — Proprietary
Telephone numbers of the organization receiving alarm:
Alarm: _____
Supervisory: _____
Trouble: _____
If alarms are retransmitted to public fire service communications centers or others, indicate location and telephone numbers of the organization receiving alarm: _____
_____
Indicate how alarm is retransmitted: _____

_____ *NFPA 72,* Chapter 8 — Central Station
Prime contractor: _____
Central station location: _____

Copyright NFPA

Means of transmission of signals from the protected premises to the central station:

_____ McCulloh _____ Multiplex _____ One-way radio

_____ Digital alarm communicator _____ Two-way radio _____ Others

Means of transmission of alarms to the public fire service communications center:

(a) _____

(b) _____

System location: _____

_____ *NFPA 72,* Chapter 9 — Auxillary

Indicate type of connection: _____ Local energy _____ Shunt _____ Parallel telephone

Location of telephone number for receipt of signals: _____

2. Record of System Installation

(Fill out after installation is complete and wiring is checked for opens, shorts, ground faults, and improper branching, but prior to conducting operational acceptance tests.)

This system has been installed in accordance with the NFPA standards as shown below, was inspected by _____ on _____ , includes the devices shown in 5 and 6, and has been in service since _____ .

____ *NFPA 72,* Chapters 1 2 3 4 5 6 7 8 9 10 11 (circle all that apply)

____ NFPA 70, *National Electrical Code*, Article 760

____ Manufacturer's instructions

____ Other (specify): _____

Signed: _____ Date: _____

Organization: _____

3. Record of System Operation

Documentation in accordance with Inspection Testing Form, Figure 10.6.2.3, is attached _____ .

All operational features and functions of this system were tested by _____ date _____ and found to be operating properly in accordance with the requirements of:

____ *NFPA 72,* Chapters 1 2 3 4 5 6 7 8 9 10 11 (circle all that apply)

____ NFPA 70, *National Electrical Code*, Article 760

____ Manufacturer's instructions

____ Other (specify): _____

Signed: _____ Date: _____

Organization: _____

4. Signaling Line Circuits

Quantity and class of signaling line circuits connected to system *(see NFPA 72, Table 6.6.1)*:

Quantity: _____ Style: _____ Class: _____

Copyright NFPA

5. Alarm-Initiating Devices and Circuits

Quantity and class of initiating device circuits *(see NFPA 72, Table 6.5)*:
Quantity:_____ Style:_____ Class:_____

MANUAL
(a) Manual stations Noncoded_____ Transmitters_____ Coded_____ Addressable_____
(b) Combination manual fire alarm and guard's tour coded stations _____

AUTOMATIC
Coverage: Complete _____ Partial_____
Selective _____ Nonrequired _____

(a) Smoke detectors_____ Ion _____ Photo _____ Addressable_____
(b) Duct detectors_____ Ion _____ Photo _____ Addressable_____
(c) Heat detectors_____ FT _____ RR _____ FT/RR _____ RC_____ Addressable _____
(d) Sprinkler waterflow indicators: Transmitters_____ Noncoded_____ Coded _____ Addressable_____
(e) The alarm verification feature is disabled _____ or enabled _____ , changed from _____ seconds to _____ seconds.
(f) Other (list): _____

_____

6. Supervisory Signal-Initiating Devices and Circuits (use blanks to indicate quantity of devices)

GUARD'S TOUR
(a)_____ Coded stations
(b)_____ Noncoded stations
(c) _____ Compulsory guard's tour system comprised of_____ transmitter stations and intermediate stations
Note: Combination devices are recorded under 5(b), Manual, and 6(a), Guard's Tour.

SPRINKLER SYSTEM
Check if provided
(a)_____ Valve supervisory switches
(b)_____ Building temperature points
(c) _____ Site water temperature points
(d)_____ Site water supply level points

Electric fire pump:
(e)_____ Fire pump power
(f) _____ Fire pump running
(g)_____ Phase reversal

Engine-driven fire pump:
(h)_____ Selector in auto position
(i) _____ Engine or control panel trouble
(j) _____ Fire pump running

ENGINE-DRIVEN GENERATOR:
(a)_____ Selector in auto position
(b)_____ Control panel trouble
(c) _____ Transfer switches
(d)_____ Engine running
Other supervisory function(s) (specify):_____

_____

_____

Copyright NFPA

7. Annunciator(s)

Number:_____ Type:_____ Location:_____

8. Alarm Notification Appliances and Circuits

NFPA 72, Chapter 6 — Emergency Voice/Alarm Service

Quantity of voice/alarm channels:_____ Single:_____ Multiple:_____

Quantity of speakers installed:_____ Quantity of speaker zones:_____

Quantity of telephones or telephone jacks included in system:_____

Quantity and the class of notification appliance circuits connected to system *(see NFPA 72, Table 6.7)*:

Quantity:_____ Style:_____ Class:_____

Types and quantities of notification appliances installed:

(a) Bells _____ With Visible _____

(b) Speakers_____ With Visible _____

(c) Horns_____ With Visible _____

(d) Chimes_____ With Visible _____

(e) Other:_____ With Visible _____

(f) Visible appliances without audible:_____

9. System Power Supplies

(a) Fire Alarm Control Panel: Nominal voltage:_____ Current rating:_____

Overcurrent protection: Type:_____ Current rating:_____

Location:_____

(b) Secondary (standby):

Storage battery:_____ Amp-hour rating:_____

Calculated capacity to drive system, in hours:_____

Engine-driven generator dedicated to fire alarm system:_____

Location of fuel storage:_____

(c) Emergency system used as backup to primary power supply:_____

Emergency system described in NFPA 70, Article 700:_____

10. Comments

Frequency of routine tests and inspections, if other than in accordance with the referenced NFPA standard(s):

_____

System deviations from the referenced NFPA standard(s) are:_____

_____

_____

_____

(signed) for installation contractor/supplier (title) (date)

_____

(signed) for alarm service company (title) (date)

_____

(signed) for central station (title) (date)

Upon completion of the system(s) satisfactory test(s) witnessed (if required by the authority having jurisdiction):

_____

(signed) representative of the authority having jurisdiction (title) (date)

Copyright NFPA

Contractor Information and Licensing Input Form

Parkway School District Refrigerant Management System

This form must be completed for each project performed by the Contractor and returned to Parkway School District. Enter the information requested in the boxes below. Complete all boxes. Enter "N/A" if the information requested is not applicable.

Company:			
Address 1:			
Address 2:			
Contact:			
Phone No.:		**Fax No.:**	
Owner's Project No.:			
Owner's Project Title:			
Project Start Date:		**Project Stop Date:**	

Enter the refrigerant technician certification information for each technician that will work on this project. Attach a copy of each technician's certificate.

Technician's Full Name	Certification Level	Certification Number

Ser□ice Order □orm

Ser□ice ID□	**O□ner□**
□ or□ Order □□	**□acilit□□**
Date□Issued□ **Completed□**	**□ppliance ID□**
Technicians□	**Location□** **Model□**
	Manu□act□ **Serial □□**
	Re□rigerant T□pe□ **Charge□** **l□s** **o□**

Ser□ice Re□uest

Ser□ice Description

☐ Confirm Charge ☐ Upgrades Installed ☐ Minor Maintenance Vacuum: _____

☐ Dispose of Unit ☐ Refrigerant Conversion ☐ Major Maintenance inches ☐ microns ☐

Re□rigerant	C□linder ID	T□pe	Condition	□uantit□
Reco□ered				**L□s** **o□**
				L□s **o□**
				L□s **o□**
	Reco□er□ □nit ID □ □□□□□□□			
□dded				**L□s** **o□**
				L□s **o□**
				L□s **o□**
	☐ **Startup Charge**		**□et Re□rigerant □dded□**	**L□s** **o□**

Parts □sed

Parts □o	Description	□uantit□

Material □otes

Total Hours on this Service: _____

Lea□s

☐ Leak Found Date: _____

☐ Leak Repaired Date: _____

☐ Initial Leak Test Method: _____

☐ Follow-up Test Method: _____

☐ AQMD Leak Audit Date: _____

Leak Notes:

Trace Gas Used _____ Cylinder ID _____ Quantity _____ Lbs _____ oz

☐ Accidental Release Occurred

Description:

Estimated Amount Released _____ lbs _____oz

Oil Removed _____ gallons Type of Oil _____

Accumulation Drum # oil put In _____

□□uipment Installation□Remo□al Input □orm

Par□□a□ School District Re□rigerant Management S□stem

Complete this form and return it to Parkway School District for each piece of equipment containing refrigerant that is removed or installed. Enter <u>all</u> the information requested in the form below. ***Complete page 1 for removal and complete page 1 and 2 for installation. Double outlined boxes are check boxes.***

R□MO□□L		Remo□al Date		I□ST□LL□TIO□		Installation Date	
□our Compan□ □ame				**□nit □ield Tag □um□er**			
Technician□s □ame				**□nit Manu□acturer**			
□uilding □ame				**□nit Model □um□er**			
O□ner□s Pro□ect □o				**□nit Serial □um□er**			
O□ner□s Pro□ect □ame							
General Location□	Classroom		Mechanical Room		Rooftop		Site
Detailed □□uipment Location □Room □o□, Roo□□rea □o□, □tc□□							
□P□ □ppro□ed Method □sed to Determine Charge□			Measurement (Weight)		Manufacturer's Data		
Re□rigerant Reco□ered □rom □□uipment				Yes		No	
□□uipment Tagged "Re□rigerant Reco□ered"				Yes		No	
Re□rigerant Charge □See □elo□ □□		**Re□rigerant T□pe**					

Compressor 1		Lbs.		Ozs.	Compressor 2		Lbs.		Ozs.
Compressor 3		Lbs.		Ozs.	Compressor 4		Lbs.		Ozs.

□ppliance T□pe □chec□ one □elo□ □			
	□ir Handling □nit□Cooling		**□ree□er □ □ al□in**
	Chiller □Centri□ugal		**Heat Pump**
	Chiller □Reciprocating		**Ice Machine**
	Chiller □Scre□		**Re□rigerated □ir Dr□er**
	Condensing □nit□□nit □entilator		**Re□rigerator**
	□dpac □nit □Mc□el□e□□		**Roo□Top □nit**
	□lectric □ ater Cooler		**Sel□Contained □nit □entilator**
	□ood Case		**□ al□in cooler**
	□ree□er		**□ indo□ □nit**
	□ree□er □Stand □p		**Other □descri□e in notes □elo□ □**

□otes□

□e□ □□uipment Data □complete □elo□ □or ne□ installations□												
Dut□T□pe□	Comfort		Under 50 Lbs.		Other Refrigeration							
Capacit□ □uantit□		**Capacit□ □nits□**	BTUH		Tons							
Lu□ricant		**□nit □oltage□Phase□Hert□**										
Comp□□ M□r□												
Serial □um□er		**Model □o□**										
Pressure□	Head		Suction		**□mps□**	L1		L2		L3		
Comp□□ M□r□												
Serial □um□er		**Model □o□**										
Pressure□	Head		Suction		**□mps□**	L1		L2		L3		
Comp□□ M□r□												
Serial □um□er		**Model □o□**										
Pressure□	Head		Suction		**□mps□**	L1		L2		L3		
Comp□□ M□r□												
Serial □um□er		**Model □o□**										
Pressure□	Head		Suction		**□mps□**	L1		L2		L3		
Suppl□ □an M□r□												
Serial □um□er		**Model □o□**										
□mps□	L1		L2		L3							
Return □an M□r□												
Serial □um□er		**Model □o□**										
□mps□	L1		L2		L3							
Cond□□an □M□r□												
Serial □um□er		**Model □o□**										
□mps□	L1		L2		L3							
Cond□□an □M□r□												
Serial □um□er		**Model □o□**										
□mps□	L1		L2		L3							
Cond□□an □M□r□												
Serial □um□er		**Model □o□**										
□mps□	L1		L2		L3							
Cond□□an □M□r□												
Serial □um□er		**Model □o□**										
□mps□	L1		L2		L3							

SECURITY BADGE & OSHA 10 HOUR CONSTRUCTION SAFETY & HEALTH TRAINING LOG

Parkway Project Number _____

The undersigned certify that they have obtained a security badge from the Owner's security office and that they have successfully completed the OSHA 10 Hour Safety Training program pursuant to Section 292.675 RSMo and understand that they shall carry the issued security badge and documentation of successful completion of the OSHA 10 Hour Safety Training program at all times while working on the Project site.

Print Name	Signature	First Date On Site	Company	Owner's Security Badge Number	OSHA 10 Hour Training Certification Number

DIVISION OF LABOR STANDARDS

MISSOURI DEPARTMENT OF LABOR AND INDUSTRIAL RELATIONS

AFFIDAVIT
COMPLIANCE WITH THE PREVAILING WAGE LAW

I, _____, upon being duly sworn upon my oath state that: (1) I am the
(Name)

_____ of _____; (2) all requirements of
(Title) *(Name of Company)*

§§ 290.210 to 290.340, RSMo, pertaining to the payment of wages to workers employed on public works projects have been fully satisfied with regard to this company's work on _____;
(Name of Project)

(3) I have reviewed and am familiar with the prevailing wage rules in 8 CSR 30-3.010 to 8 CSR 30-3.060; (4) based upon my knowledge of these rules, including the occupational titles set out in 8 CSR 30-3.060, I have completed full and accurate records clearly indicating (a) the names, occupations, and crafts of every worker employed by this company in connection with this project together with an accurate record of the number of hours worked by each worker and the actual wages paid for each class or type of work performed, (b) the payroll deductions that have been made for each worker, and (c) the amounts paid to provide fringe benefits, if any, for each worker; (5) the amounts paid to provide fringe benefits, if any, were irrevocably made to a fund, plan, or program on behalf of the workers; (6) these payroll records are kept and have been provided for inspection to the authorized representative of the contracting public body and will be available, as often as may be necessary, to such body and the Missouri Department of Labor and Industrial Relations; (7) such records shall not be destroyed or removed from the state for one year following the completion of this company's work on this project; and (8) there has been no exception to the full and complete compliance with the provisions and requirements of Annual Wage Order No. _____ Section _____ issued by the Missouri Division of Labor Standards and applicable to this project located in _____ County, Missouri, and completed on the ____ day of _____, _____.

The matters stated herein are true to the best of my information, knowledge, and belief. I acknowledge that the falsification of any information set out above may subject me to criminal prosecution pursuant to §§290.340, 570.090, 575.040, 575.050, or 575.060, RSMo.

_____
Signature

Subscribed and sworn to me this ____ day of _____, _____.

My commission expires _____, _____.

_____
Notary Public

_____
Receipt by Authorized Public Representative

Missouri Department of Labor and Industrial Relations is an equal opportunity employer/program.

AFFIDAVIT
RECORD DOCUMENT COMPLETION

Before me, the undersigned Notary Public, in and for the County of _____, in the State of _____, personally came and appeared (Name), _____-(Title)_____ of the (Name of Company)_____ (a corporation)(a partnership)(a proprietorship) and after being duly sworn did depose and say that the Record (Drawings)(Specifications) have been marked-up in the Owner's electronic document management system with all known as-constructed variations from the Bid Documents, with the exception of those variations officially issued in the form of sketches, drawings, or specification changes by the Architect and Owner through Supplemental Instructions, Change Directives, or Change Orders, which variations have been completed by the Architect in the performance of their contractual services to the Owner, as required in the Specifications for the Project known as:

(Owner's Project Number)_____

(Project Title)_____

(Project Facility Name)_____

Signature: _____ Date: _____

Subscribed and sworn to me this _____ day of _____ , _____

My commission expires _____ , _____

Notary seal and signature:

ASBESTOS AND LEAD BASED PAINT
NOTIFICATION TO CONTRACTORS
At
Parkway School District
Building: *#*, *Name of Building/School*
Address of Building/School
Address of Building
Date

Contact Name
Name of Contractor
Address
Address

Dear *Contact Name*:

As a contractor for the Parkway School District (PSD), your employees and subcontractors have access to and will be working in the PSD building (*School Name*) All PSD buildings, except for Early Childhood North, Southwest Middle and Oakbrook Elementary contain some amount of asbestos containing building materials. All Parkway School District Buildings built in or previous to 1978 were tested for the presence of lead based paint. In compliance with U.S. Environmental Protection Agency asbestos notification requirements (40 CFR 763.84), and the Lead Renovation Repair and Painting Rule (40 CFR 745) the PSD is submitting this notification package to *Name of Contractor*. Attached is the *Name of Building/School* asbestos and lead based paint information package for you to review with your employees and subcontractors prior to beginning work in *Name of Building/School*. The asbestos materials identified in this notification are for interior building materials only. Exterior and inaccessible building materials may not have been sampled or identified as asbestos or lead containing. Should exterior or hidden suspect building materials be encountered, work in this area should not begin until additional sampling and materials identification is performed by PSD. This package includes asbestos and lead based paint summary sheet(s) for *Name of Building/School* and the Contractor Notification Signature Sheet that must be signed by all *Name of Contractor* personnel and subcontractor personnel that will be working at *Name of Building/School*. Each employee must sign the signature sheet to be able to conduct work in the buildings. Employees are required to sign signature sheet only one time.

Asbestos & Lead Based Paint Notification
Name of Contractor
Name of Building/School
Date

Asbestos and lead based paint materials denoted on the asbestos and lead based paint summaries are not to be disturbed. Only Certified Lead Renovators can perform work with lead based paint using approved renovation, repair and painting practices. If your employees should discover any disturbed asbestos containing materials or lead based paint; or if they disturb these materials while they are in the building; all work must stop and *Name of Contractor* must notify me (573-201-5067) immediately. Additional notification must be made to the district construction supervisor or maintenance supervisor that manages the project. If your employees discover a material that they are unsure of its asbestos or lead based paint content, they must not disturb it without authorization form PSD.

Original signed signature sheets must be submitted to the District Construction Supervisor on a weekly basis. Copies of the signature sheet may be made as needed for each successive week. A copy of the signature sheet and the asbestos and lead based paint material summaries must be available on site during any work within a specific building so that *Name of Contractor* employees, subcontractor employees, and PSD can review them at any time. PSD reserves the right to review these documents when *Name of Contractor* employees or subcontractors are working in a building. If these documents are not available, or *Name of Contractor* personnel working in the building have not signed the signature sheet, PSD can stop work until the required documents and signatures are available. If you have any questions concerning the asbestos and lead based paint summary sheets or the contractor notification signature sheets that we have included in this package please call me at 314-415-8260.

Stephanie Kline-Tissi, ASP
Safety Manager, District Operations
Parkway School District
Phone: 314-415-8260
24-Hour Emergency Number: 314-415-8200

CONTRACTOR NOTIFICATION OF ASBESTOS AND LEAD BASED PAINT CONTAINING BUILDING MATERIALS

Retain Copy in Asbestos Files

Month Ending Date: _____

Company Name: _____*Name of Contractor*_____.

Parkway Building: _____*Name of Building/School*_____

Name & Title of
Company Representative: _____*Name of Contact*_____

Type of Work to be Performed: *Type of Work to be Performed* Bid No. *Project #*

I have reviewed the Asbestos information for *Name of Building/School* and have been advised of the types and locations of asbestos materials that I may potentially come into contact with while performing my work. I have been given the opportunity to review the Asbestos Management Plan for this facility, if requested. I will perform my work without disturbing the asbestos containing materials or will inform the Construction Supervisor and the Asbestos Program Manager if unable to do so. In such case, the Asbestos Program Manager will give instructions as required prior to any work that may potentially disturb asbestos-containing materials. If asbestos-containing materials are inadvertently disturbed or if disturbed materials are discovered, work will cease immediately, and the Construction Supervisor and Safety Manager, Stephanie Kline-Tissi (573-201-5067) will be contacted. The Construction or Maintenance Supervisor managing the project will also be contacted if the Parkway supervisor is not available.

COMPANY NAME	**PRINTED NAME & SIGNATURE**	**DATE**
_____	_____	_____
	_____	
_____	_____	_____
	_____	

Asbestos & Lead Based Paint Notification
Name of Contractor
Name of Building/School
Date

COMPANY NAME	PRINTED NAME & SIGNATURE	DATE

CERTIFICATION OF VISUAL INSPECTION

Project Number: _____ Project Name: _____

Building Name: _____

Building Owner: _____

Specific Area: _____

In accordance with customary work practices, the Contractor hereby certifies that he has visually inspected the work area (all surfaces including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc.) and has found no dust, debris, or residue.

By: (Signature) _____ Date: _____

(Print Name) _____ Title: _____

Company Name: _____

OWNER REPRESENTATIVE'S COMPLETION OF VISUAL INSPECTION __ Pass __Fail

The Owner's Representative has performed a visual inspection in accordance with ASTM E1368-14 and hereby verifies that he has visually inspected the work area (all surfaces including pipes, beams, ledges, walls, ceiling and floor, decontamination unit, sheet plastic, etc.) and has found no dust, debris, or residue.

___ The contractor will apply a lock down encapsulant and clearance will be ran when dry

___ Lockdown encapsulation is not being applied - clearances to be ran now

Clearance sampling to be performed: __ Visual Inspection Only __ In-Progress __ TEM __ PCM-5 __ PCM-2

Comments: _____

_____

_____

By: (Signature) _____ Date: _____

(Print Name) _____ Time: _____

Client#: 10295 POETTKER

ACORD™ CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Insurance Agent's Name Insurance Agent's Mailing Address Insurance Agent's City, State & Zip	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	
	PRODUCER CUSTOMER ID #:	

INSURED	INSURER(S) AFFORDING COVERAGE	NAIC #
Subcontractor's Name Subcontractor's Address Subcontractor's City, State, Zip	INSURER A : Insurance Company Name	
	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**GENERAL LIABILITY**			**Policy Number**	**Eff Date**	**Exp Date**	EACH OCCURRENCE	$**1,000,000**
	X COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	$**50,000**
	CLAIMS-MADE X OCCUR						MED EXP (Any one person)	$**5,000**
							PERSONAL & ADV INJURY	$**1,000,000**
							GENERAL AGGREGATE	$**2,000,000**
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG	$**2,000,000**
	POLICY X PRO-JECT LOC							$
A	**AUTOMOBILE LIABILITY**			**Policy Number**	**Eff Date**	**Exp Date**	COMBINED SINGLE LIMIT (Ea accident)	$ **1,000,000**
	X ANY AUTO						BODILY INJURY (Per person)	$
	ALL OWNED AUTOS						BODILY INJURY (Per accident)	$
	SCHEDULED AUTOS						PROPERTY DAMAGE (Per accident)	$
	X HIRED AUTOS							$
	X NON-OWNED AUTOS							$
A	X **UMBRELLA LIAB** X OCCUR			**Policy Number**	**Eff Date**	**Exp Date**	EACH OCCURRENCE	$**2,000,000**
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$**2,000,000**
	DEDUCTIBLE							$
	RETENTION $							$
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N			**Policy Number**	**Eff Date**	**Exp Date**	X WC STATU-TORY LIMITS OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? N **(Mandatory in NH)**	N/A					E.L. EACH ACCIDENT	$**1,000,000**
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$**1,000,000**
							E.L. DISEASE - POLICY LIMIT	$**1,000,000**

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

RE:

Poettker Construction Company, owner and architect/engineer are added as additional insureds on a primary
(See Attached Descriptions)

CERTIFICATE HOLDER

Poettker Construction Company
400 South Germantown Road
Breese, IL 62230

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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DESCRIPTIONS (Continued from Page 1)

and non-contributory basis including completed operations, under all policies listed above except Workers Compensation and Employers Liability. A waiver of subrogation applies in favor of Poettker Construction Company, owner and architect/engineer under all policies listed above where permitted by law.

Ameren MISSOURI | BizSavers

Business Energy Efficiency Programs

2026 STANDARD INCENTIVES PROGRAM

The BizSavers program offers several standard measures that can take your energy savings even further. These measures include VFDs, rooftop HVAC units, air cooled chillers, among many more. Incentive amounts are predetermined and paid on a per-unit basis. These HVAC equipment upgrades are incentivized based on the amount of energy saved and must receive pre-approval prior to purchase or installation.

To get started with a Standard Pre-Approval project, contact the BizSavers team or learn more at AmerenMissouri.com/GetStarted.

BUILDING CONDITIONING

Chillers [1, 2, 3, 4, 5, 6]

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Baseline IPLV: 0.88 kW/ton	High-Efficiency Air-Cooled (AC) Chiller	$167 Per Ton
Baseline IPLV: 0.54 kW/ton	High-Efficiency Water-Cooled (WC) Chiller	$58 Per Ton

- IPLV_base: AC Chiller Baseline IPLV assumes the 13.7 EER Minimum Requirement for < 150 ton unit.
- WC Chiller Baseline IPLV assumes the 0.54 kW/ton Minimum Requirement for 150-300 ton WC Chiller.

Controls [7]

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Space with no demand control capability	Demand Controlled Ventillation (Electric Heat)	$0.57 Per Controlled Sq. Ft
	Demand Controlled Ventillation (Gas Heat)	$0.18 Per Controlled Sq. Ft
	Demand Controlled Ventillation (Heat Pump)	$0.32 Per Controlled Sq. Ft
Constant speed supply fan on packaged heating and cooling equipment	Advanced RTU Controls	$1500 Per HP

Heat Pumps [8]

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
12.1 EER	GSHP Retrofit	$80 Per HP
13.4 SEER2	ASHP <65kBTUh	$108 Per Ton
13.9 IEER	ASHP ≥65kBTUh and <135 kBTUh	$110 Per Ton
13.3 IEER	ASHP ≥135kBTUh and <240 kBTUh	$153 Per Ton
12.3 IEER	ASHP >240kBTUh	$214 Per Ton
12.2 EER	WSHP <17 kBTUh	$120 Per Ton
13 EER	WSHP ≥17 kBTUh and <65 kBTUh	$130 Per Ton
13 EER	WSHP ≥65kBTUh and <135 kBTUh	$140 Per Ton

High Volume Fans [9]

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Multiple non-high volume low speed fans	High Volume Low Speed Fan, 16	$700 Per Fan
	High Volume Low Speed Fan, 18	$1,100 Per Fan
	High Volume Low Speed Fan, 20	$1,450 Per Fan
	High Volume Low Speed Fan, 22	$1,850 Per Fan
	High Volume Low Speed Fan, 24	$2,200 Per Fan

Unitary AC/DX [4, 5, 6, 8]

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
13.4 SEER2	Single Package or Split System Unitary AC/DX <65kbtu	$149 Per Ton
14.6 IEER	Single Package or Split System Unitary AC/DX 65 -135kbtu	$102 Per Ton
14.0 IEER	Single Package or Split System Unitary AC/DX 135 - 240kbtu	$117 Per Ton
13.0 IEER	Single Package or Split System Unitary AC/DX 240 - 760kbtu	$175 Per Ton
11.0 IEER	Single Package or Split System Unitary AC/DX >760kbtu	$10 Per Ton

Variable Frequency Drives (VFDs) [10, 11, 12, 13]

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
No VFD Installed	VFD on Chilled Water Pump >=1HP	$270 Per HP
	VFD on Condenser Water Pump >= 1HP	
	VFD on Cooling Tower Fan >= 1HP	$350 Per HP
	VFD on Hot Water Pump >= 1HP	$250 Per HP
	VFD on HVAC Fans >= 1HP	$200 Per HP

COMPRESSED AIR

Air Nozzle

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Inefficient Air Nozzle	Compressed Air Nozzle (Reciprocating - Load/Unload)	$100 Per Nozzle
	Compressed Air Nozzle (Reciprocating - On/off Control)	
	Compressed Air Nozzle (Screw - Inlet Modulation w/ blowdown)	
	Compressed Air Nozzle (Screw - Inlet Modulation)	
	Compressed Air Nozzle (Screw - Load/Unload)	
	Compressed Air Nozzle (Screw - Variable Displacement)	
	Compressed Air Nozzle (Screw - VFD)	

No Loss Drain

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Open Valve or Timer Condensate Drain	No Loss Condensate Drain (Reciprocating - Load/Unload)	$240 Per Drain
	No Loss Condensate Drain (Reciprocating - On/off Control)	
	No Loss Condensate Drain (Screw - Inlet Modulation w/ Unloading)	
	No Loss Condensate Drain (Screw - Inlet Modulation)	
	No Loss Condensate Drain (Screw - Load/Unload)	
	No Loss Condensate Drain (Screw - Variable Displacement)	
	No Loss Condensate Drain (Screw - VFD)	

VSD Compressor

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Constant speed air compressor	VSD Air Compressor 5-40 HP	$120 Per HP
Constant speed air compressor	VSD Air Compressor >40-<50 HP	
Constant speed air compressor	VSD Air Compressor 50-200 HP	$107 Per HP

COOKING

Demand Control Ventilation

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Kitchen ventilation with constant speed motor	Kitchen Demand Ventilation Controls, Retrofit	$450 Per HP

- System should include installation of a new temperature sensor in the hood exhaust collar and/or a an optic sensor on the end of the hood that senses cooking conditions which allows the system to automatically vary the rate of exhaust to what is needed by adjusting the fan speed accordingly

Hot Food Holding Cabinet

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Non-ENERGY STAR equivalent size unit	ENERGY STAR Hot Holding Cabinet (0 < V <13)	$75 Per Cabinet
	ENERGY STAR Hot Holding Cabinet (13 ≤ V <28)	$350 Per Cabinet
	ENERGY STAR Hot Holding Cabinet (28 ≤ V)	$530 Per Cabinet

Steam Cooker

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Non-ENERGY STAR equivalent size unit	3 Pan ENERGY STAR Steam Cooker	$900 Per Cooker
	4 Pan ENERGY STAR Steam Cooker	$980 Per Cooker
	5 Pan ENERGY STAR Steam Cooker	$1,000 Per Cooker
	6 Pan ENERGY STAR Steam Cooker	$1,200 Per Cooker

POOL PUMP

Pool Pump with VFD [10, 11, 12, 13]

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Pool pump with no VFD installed	Pool Pump w/ Variable Frequency Drive	$134 Per HP

REFRIGERATION

Anti-Sweat Heater Controls

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Non-ENERGY STAR equivalent size unit	Anti-Sweat Heater Controls Freezer	$90 Per Controller
	Anti-Sweat Heater Controls Refrigerator	$65 Per Controller

Vertical Closed Freezers and Refrigerators

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Non-ENERGY STAR equivalent size unit	0 < V < 15 - Vertical Closed - Glass Door Freezer	$105 Per Freezer
	15 ≤ V < 30 - Vertical Closed - Glass Door Freezer	$210 Per Freezer
	30 ≤ V < 50 - Vertical Closed - Glass Door Freezer	$360 Per Freezer
	V ≥ 50 - Vertical Closed - Glass Door Freezer	$570 Per Freezer
	15 ≤ V < 30 - Vertical Closed - Solid Door Freezer	$90 Per Freezer
	30 ≤ V < 50 - Vertical Closed - Solid Door Freezer	$160 Per Freezer
	V ≥ 50 - Vertical Closed - Solid Door Freezer	$300 Per Freezer
	0 < V < 15 - Vertical Closed - Solid Door Refrigerator	$35 Per Refrigerator

Horizontal Closed Refrigerators

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Non-ENERGY STAR equivalent size unit	Horizontal Closed - Solid Door Refrigerator - All Volumes	$85 Per Refrigerator
	Horizontal Closed - Glass Door Refrigerator - All Volumes	$50 Per Refrigerator

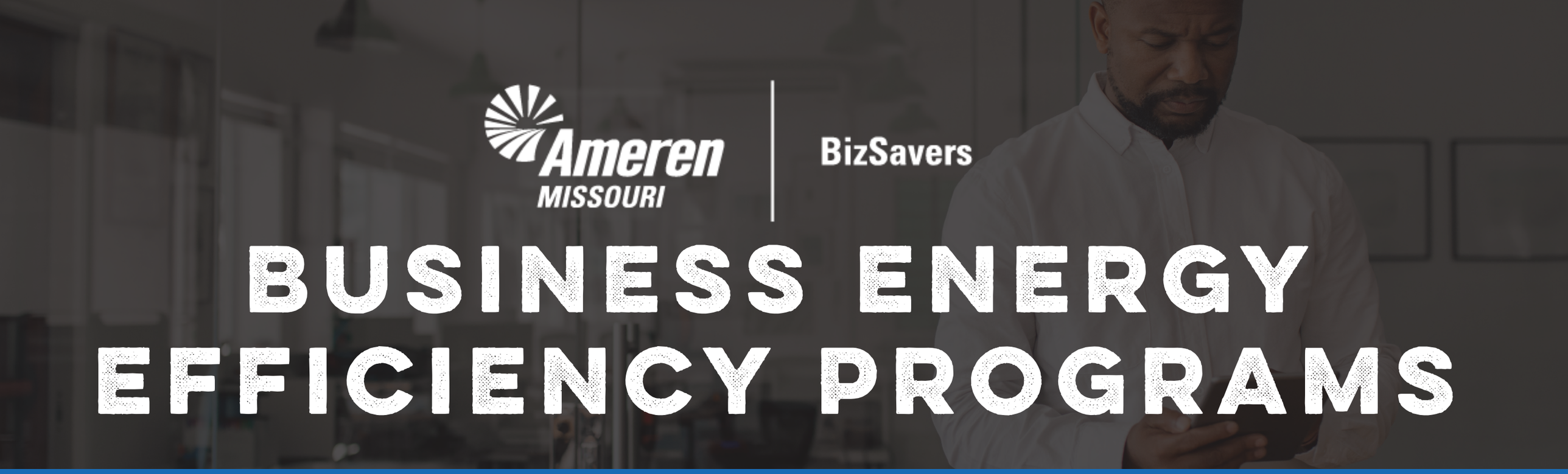
WATER HEATING

Heat Pump

Inefficient Equipment Condition/ Equipment	Efficient Equipment	Incentive
Electric resistance commercial water heater	Heat Pump Water Heater 2.9-14.6 kW (10 to 50 MBH)	$1,400 Per Heater
	Heat Pump Water Heater 14.7-29.3 kW (50 to 100 MBH)	$3,500 Per Heater
	Heat Pump Water Heater 29.4-87.9 kW (100 to 300 MBH)	$9,000 Per Heater
	Heat Pump Water Heater 88-146.5 kW (300 to 500 MBH)	$19,000 Per Heater
	Heat Pump Water Heater >146.6 kW (above 500 MBH)	$25,000 Per Heater
	Heat Pump Water Heater ≤55 gal, medium draw	$220 Per Heater
	Heat Pump Water Heater >55 gal and ≤ 120 gal, medium draw	$360 Per Heater

PROGRAM GUIDELINE NOTES:

1. "High Efficiency" is considered a unit more efficient than IECC 2018.
2. All chiller measures are intended for single chiller systems (back-up chillers will not qualify).
3. To qualify for the chiller measure, the chiller must be able to serve 100% of the zone's cooling load.
4. Equipment being replaced must be less than or equal to the inefficient equipment baseline.
5. Tons are defined as the Net Cooling Capacity of a unit.
6. In the case where the HVAC equipment is not replacing an existing unit, the higher of the inefficient equipment baseline in the table above or local code baseline will be used.
7. Advanced Roof Top Controls must integrate air-side economization, supply-fan speed control (by installing a variable speed drive), and demand controlled ventilation. This measure is for retrofit of an existing HVAC unit.
8. EER = Full Load Efficiency, IEER = Part Load Efficiency
9. HVLS fan must have VFD.
10. Existing motor must not already have a VFD.
11. System must have a variable or reduced load.
12. In systems with lead/lag setups or redundant equipment, the number of VFDs incented cannot exceed the number of motors needed to perform the work.
13. Installation to have necessary control points and parameters.



Ameren MISSOURI | BizSavers

BUSINESS ENERGY EFFICIENCY PROGRAMS

2026 CUSTOM INCENTIVES PROGRAM

The Ameren Missouri BizSavers® program provides Custom Incentives for energy-efficient equipment that is not eligible for Standard Incentives. Custom Incentives are calculated based on the estimated annual energy savings of the proposed energy efficiency measures. Some of the most popular Custom Incentive projects include air compressor upgrades, building control systems and chiller upgrades. Customers must provide calculations quantifying energy savings and all equipment purchases must receive pre-approval prior to purchase and installation to qualify for Custom Incentives. Visit **AmerenMissouri.com/GetStarted** for more details on starting your project.

End Use (Savings Type)	Unit of Measure	Incentive Per Unit
Cooling	kWh reduced	35¢
Building Shell	kWh reduced	24¢
HVAC	kWh reduced	29¢
Cooking	kWh reduced	15¢
Water Heating	kWh reduced	15¢
Facility – Grow Conditioning	kWh reduced	16¢
Lighting Controls	kWh reduced	16¢
Compressed Air	kWh reduced	13¢
Miscellaneous	kWh reduced	12¢
Motors	kWh reduced	12¢
Process	kWh reduced	12¢
Refrigeration	kWh reduced	12¢

Start saving today at AmerenMissouri.com/GetStarted.

SECTION 007200
GENERAL CONDITIONS

PART 1 GENERAL

1.01 FORM OF GENERAL CONDITIONS

A. The General Conditions applicable to this contract is attached at the end of this document.

1.02 RELATED DOCUMENTS

A. Document 005200 - Agreement Form.

B. Section 014216 - Definitions.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 007200

AIA® Document A201® – 2017

General Conditions of the Contract for Construction

for the following PROJECT:
(Name and location or address)

PN432502B – West Middle School
2312 Baxter Road
Chesterfield, Missouri 63017

PN542501B – West High School
14653 Clayton Road
Ballwin, Missouri 63011

PN652501B – Early Childhood Center West
14605 Clayton Road
Ballwin, Missouri 63011

Bid No. 27-60

THE OWNER:
(Name, legal status and address)

THE ARCHITECT:
(Name, legal status and address)

ADDITIONS AND DELETIONS:
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

For guidance in modifying this document to include supplementary conditions, see AIA Document A503™, Guide for Supplementary Conditions.

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ARTICLE 1 GENERAL PROVISIONS

§ 1.1 Basic Definitions

§ 1.1.1 The Contract Documents

The Contract Documents are enumerated in the Agreement between the Owner and Contractor (hereinafter the Agreement) and consist of the Agreement, Conditions of the Contract (General, Supplementary and other Conditions), Drawings, Specifications, Addenda issued prior to execution of the Contract, other documents listed in the Agreement, and Modifications issued after execution of the Contract. A Modification is (1) a written amendment to the Contract signed by both parties, (2) a Change Order, (3) a Construction Change Directive, or (4) a written order for a minor change in the Work issued by the Architect. Unless specifically enumerated in the Agreement, the Contract Documents do not include the advertisement or invitation to bid, Instructions to Bidders, sample forms, other information furnished by the Owner in anticipation of receiving bids or proposals, the Contractor's bid or proposal, or portions of Addenda relating to bidding or proposal requirements.

§ 1.1.2 The Contract

The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants, or (4) between any persons or entities other than the Owner and the Contractor. The Architect shall, however, be entitled to performance and enforcement of obligations under the Contract intended to facilitate performance of the Architect's duties.

§ 1.1.3 The Work

The term "Work" means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or a part of the Project.

§ 1.1.4 The Project

The Project is the total construction of which the Work performed under the Contract Documents may be the whole or a part and which may include construction by the Owner and by Separate Contractors.

§ 1.1.5 The Drawings

The Drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.

§ 1.1.6 The Specifications

The Specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

§ 1.1.7 Instruments of Service

Instruments of Service are representations, in any medium of expression now known or later developed, of the tangible and intangible creative work performed by the Architect and the Architect's consultants under their respective professional services agreements. Instruments of Service may include, without limitation, studies, surveys, models, sketches, drawings, specifications, and other similar materials.

§ 1.1.8 Initial Decision Maker

The Initial Decision Maker is the person identified in the Agreement to render initial decisions on Claims in accordance with Section 15.2. The Initial Decision Maker shall not show partiality to the Owner or Contractor and shall not be liable for results of interpretations or decisions rendered in good faith.

§ 1.2 Correlation and Intent of the Contract Documents

§ 1.2.1 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

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§ 1.2.1.1 The invalidity of any provision of the Contract Documents shall not invalidate the Contract or its remaining provisions. If it is determined that any provision of the Contract Documents violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Contract Documents shall be construed, to the fullest extent permitted by law, to give effect to the parties' intentions and purposes in executing the Contract.

§ 1.2.2 Organization of the Specifications into divisions, sections and articles, and arrangement of Drawings shall not control the Contractor in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

§ 1.2.3 Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings.

§ 1.3 Capitalization

Terms capitalized in these General Conditions include those that are (1) specifically defined, (2) the titles of numbered articles, or (3) the titles of other documents published by the American Institute of Architects.

§ 1.4 Interpretation

In the interest of brevity the Contract Documents frequently omit modifying words such as "all" and "any" and articles such as "the" and "an," but the fact that a modifier or an article is absent from one statement and appears in another is not intended to affect the interpretation of either statement.

§ 1.5 Ownership and Use of Drawings, Specifications, and Other Instruments of Service

§ 1.5.1 The Architect and the Architect's consultants shall be deemed the authors and owners of their respective Instruments of Service, including the Drawings and Specifications, and retain all common law, statutory, and other reserved rights in their Instruments of Service, including copyrights. The Contractor, Subcontractors, Sub-subcontractors, and suppliers shall not own or claim a copyright in the Instruments of Service. Submittal or distribution to meet official regulatory requirements or for other purposes in connection with the Project is not to be construed as publication in derogation of the Architect's or Architect's consultants' reserved rights.

§ 1.5.2 The Contractor, Subcontractors, Sub-subcontractors, and suppliers are authorized to use and reproduce the Instruments of Service provided to them, subject to any protocols established pursuant to Sections 1.7 and 1.8, solely and exclusively for execution of the Work. All copies made under this authorization shall bear the copyright notice, if any, shown on the Instruments of Service. The Contractor, Subcontractors, Sub-subcontractors, and suppliers may not use the Instruments of Service on other projects or for additions to the Project outside the scope of the Work without the specific written consent of the Owner, Architect, and the Architect's consultants.

§ 1.6 Notice

§ 1.6.1 Except as otherwise provided in Section 1.6.2, where the Contract Documents require one party to notify or give notice to the other party, such notice shall be provided in writing to the designated representative of the party to whom the notice is addressed and shall be deemed to have been duly served if delivered in person, by mail, by courier, or by electronic transmission if a method for electronic transmission is set forth in the Agreement.

§ 1.6.2 Notice of Claims as provided in Section 15.1.3 shall be provided in writing and shall be deemed to have been duly served only if delivered to the designated representative of the party to whom the notice is addressed by certified or registered mail, or by courier providing proof of delivery.

§ 1.7 Digital Data Use and Transmission

The parties shall agree upon written protocols governing the transmission and use of, and reliance on, Instruments of Service or any other information or documentation in digital form.

§ 1.8 Building Information Models Use and Reliance

Any use of, or reliance on, all or a portion of a building information model without agreement to written protocols governing the use of, and reliance on, the information contained in the model shall be at the using or relying party's sole risk and without liability to the other party and its contractors or consultants, the authors of, or contributors to, the building information model, and each of their agents and employees.

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ARTICLE 2 OWNER

§ 2.1 General

§ 2.1.1 The Owner is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Owner shall designate in writing a representative who shall have express authority to bind the Owner with respect to all matters requiring the Owner's approval or authorization. Except as otherwise provided in Section 4.2.1, the Architect does not have such authority. The term "Owner" means the Owner or the Owner's authorized representative.

§ 2.1.2 The Owner shall furnish to the Contractor, within fifteen days after receipt of a written request, information necessary and relevant for the Contractor to evaluate, give notice of, or enforce mechanic's lien rights. Such information shall include a correct statement of the record legal title to the property on which the Project is located, usually referred to as the site, and the Owner's interest therein.

§ 2.2 Evidence of the Owner's Financial Arrangements

§ 2.2.1 Prior to commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract. The Contractor shall have no obligation to commence the Work until the Owner provides such evidence. If commencement of the Work is delayed under this Section 2.2.1, the Contract Time shall be extended appropriately.

§ 2.2.2 Following commencement of the Work and upon written request by the Contractor, the Owner shall furnish to the Contractor reasonable evidence that the Owner has made financial arrangements to fulfill the Owner's obligations under the Contract only if (1) the Owner fails to make payments to the Contractor as the Contract Documents require; (2) the Contractor identifies in writing a reasonable concern regarding the Owner's ability to make payment when due; or (3) a change in the Work materially changes the Contract Sum. If the Owner fails to provide such evidence, as required, within fourteen days of the Contractor's request, the Contractor may immediately stop the Work and, in that event, shall notify the Owner that the Work has stopped. However, if the request is made because a change in the Work materially changes the Contract Sum under (3) above, the Contractor may immediately stop only that portion of the Work affected by the change until reasonable evidence is provided. If the Work is stopped under this Section 2.2.2, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided in the Contract Documents.

§ 2.2.3 After the Owner furnishes evidence of financial arrangements under this Section 2.2, the Owner shall not materially vary such financial arrangements without prior notice to the Contractor.

§ 2.2.4 Where the Owner has designated information furnished under this Section 2.2 as "confidential," the Contractor shall keep the information confidential and shall not disclose it to any other person. However, the Contractor may disclose "confidential" information, after seven (7) days' notice to the Owner, where disclosure is required by law, including a subpoena or other form of compulsory legal process issued by a court or governmental entity, or by court or arbitrator(s) order. The Contractor may also disclose "confidential" information to its employees, consultants, sureties, Subcontractors and their employees, Sub-subcontractors, and others who need to know the content of such information solely and exclusively for the Project and who agree to maintain the confidentiality of such information.

§ 2.3 Information and Services Required of the Owner

§ 2.3.1 Except for permits and fees that are the responsibility of the Contractor under the Contract Documents, including those required under Section 3.7.1, the Owner shall secure and pay for necessary approvals, easements, assessments and charges required for construction, use or occupancy of permanent structures or for permanent changes in existing facilities.

§ 2.3.2 The Owner shall retain an architect lawfully licensed to practice architecture, or an entity lawfully practicing architecture, in the jurisdiction where the Project is located. That person or entity is identified as the Architect in the Agreement and is referred to throughout the Contract Documents as if singular in number.

§ 2.3.3 If the employment of the Architect terminates, the Owner shall employ a successor to whom the Contractor has no reasonable objection and whose status under the Contract Documents shall be that of the Architect.

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§ 2.3.4 The Owner shall furnish surveys describing physical characteristics, legal limitations and utility locations for the site of the Project, and a legal description of the site. The Contractor shall be entitled to rely on the accuracy of information furnished by the Owner but shall exercise proper precautions relating to the safe performance of the Work.

§ 2.3.5 The Owner shall furnish information or services required of the Owner by the Contract Documents with reasonable promptness. The Owner shall also furnish any other information or services under the Owner's control and relevant to the Contractor's performance of the Work with reasonable promptness after receiving the Contractor's written request for such information or services.

§ 2.3.6 Unless otherwise provided in the Contract Documents, the Owner shall furnish to the Contractor one copy of the Contract Documents for purposes of making reproductions pursuant to Section 1.5.2.

§ 2.4 Owner's Right to Stop the Work

If the Contractor fails to correct Work that is not in accordance with the requirements of the Contract Documents as required by Section 12.2 or repeatedly fails to carry out Work in accordance with the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Section 6.1.3.

§ 2.5 Owner's Right to Carry Out the Work

If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a ten-day period after receipt of notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may, without prejudice to other remedies the Owner may have, correct such default or neglect. Such action by the Owner and amounts charged to the Contractor are both subject to prior approval of the Architect and the Architect may, pursuant to Section 9.5.1, withhold or nullify a Certificate for Payment in whole or in part, to the extent reasonably necessary to reimburse the Owner for the reasonable cost of correcting such deficiencies, including Owner's expenses and compensation for the Architect's additional services made necessary by such default, neglect, or failure. If current and future payments are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner. If the Contractor disagrees with the actions of the Owner or the Architect, or the amounts claimed as costs to the Owner, the Contractor may file a Claim pursuant to Article 15.

ARTICLE 3 CONTRACTOR

§ 3.1 General

§ 3.1.1 The Contractor is the person or entity identified as such in the Agreement and is referred to throughout the Contract Documents as if singular in number. The Contractor shall be lawfully licensed, if required in the jurisdiction where the Project is located. The Contractor shall designate in writing a representative who shall have express authority to bind the Contractor with respect to all matters under this Contract. The term "Contractor" means the Contractor or the Contractor's authorized representative.

§ 3.1.2 The Contractor shall perform the Work in accordance with the Contract Documents.

§ 3.1.3 The Contractor shall not be relieved of its obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the Architect in the Architect's administration of the Contract, or by tests, inspections or approvals required or performed by persons or entities other than the Contractor.

§ 3.2 Review of Contract Documents and Field Conditions by Contractor

§ 3.2.1 Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed, and correlated personal observations with requirements of the Contract Documents.

§ 3.2.2 Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner pursuant to Section 2.3.4, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These

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obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

§ 3.2.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.

§ 3.2.4 If the Contractor believes that additional cost or time is involved because of clarifications or instructions the Architect issues in response to the Contractor's notices or requests for information pursuant to Sections 3.2.2 or 3.2.3, the Contractor shall submit Claims as provided in Article 15. If the Contractor fails to perform the obligations of Sections 3.2.2 or 3.2.3, the Contractor shall pay such costs and damages to the Owner, subject to Section 15.1.7, as would have been avoided if the Contractor had performed such obligations. If the Contractor performs those obligations, the Contractor shall not be liable to the Owner or Architect for damages resulting from errors, inconsistencies or omissions in the Contract Documents, for differences between field measurements or conditions and the Contract Documents, or for nonconformities of the Contract Documents to applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities.

§ 3.3 Supervision and Construction Procedures

§ 3.3.1 The Contractor shall supervise and direct the Work, using the Contractor's best skill and attention. The Contractor shall be solely responsible for, and have control over, construction means, methods, techniques, sequences, and procedures, and for coordinating all portions of the Work under the Contract. If the Contract Documents give specific instructions concerning construction means, methods, techniques, sequences, or procedures, the Contractor shall evaluate the jobsite safety thereof and shall be solely responsible for the jobsite safety of such means, methods, techniques, sequences, or procedures. If the Contractor determines that such means, methods, techniques, sequences or procedures may not be safe, the Contractor shall give timely notice to the Owner and Architect, and shall propose alternative means, methods, techniques, sequences, or procedures. The Architect shall evaluate the proposed alternative solely for conformance with the design intent for the completed construction. Unless the Architect objects to the Contractor's proposed alternative, the Contractor shall perform the Work using its alternative means, methods, techniques, sequences, or procedures.

§ 3.3.2 The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons or entities performing portions of the Work for, or on behalf of, the Contractor or any of its Subcontractors.

§ 3.3.3 The Contractor shall be responsible for inspection of portions of Work already performed to determine that such portions are in proper condition to receive subsequent Work.

§ 3.4 Labor and Materials

§ 3.4.1 Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.

§ 3.4.2 Except in the case of minor changes in the Work approved by the Architect in accordance with Section 3.12.8 or ordered by the Architect in accordance with Section 7.4, the Contractor may make substitutions only with the consent of the Owner, after evaluation by the Architect and in accordance with a Change Order or Construction Change Directive.

§ 3.4.3 The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Work. The Contractor shall not permit employment of unfit persons or persons not properly skilled in tasks assigned to them.

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§ 3.5 Warranty

§ 3.5.1 The Contractor warrants to the Owner and Architect that materials and equipment furnished under the Contract will be of good quality and new unless the Contract Documents require or permit otherwise. The Contractor further warrants that the Work will conform to the requirements of the Contract Documents and will be free from defects, except for those inherent in the quality of the Work the Contract Documents require or permit. Work, materials, or equipment not conforming to these requirements may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, alterations to the Work not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear and normal usage. If required by the Architect, the Contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.

§ 3.5.2 All material, equipment, or other special warranties required by the Contract Documents shall be issued in the name of the Owner, or shall be transferable to the Owner, and shall commence in accordance with Section 9.8.4.

§ 3.6 Taxes

The Contractor shall pay sales, consumer, use and similar taxes for the Work provided by the Contractor that are legally enacted when bids are received or negotiations concluded, whether or not yet effective or merely scheduled to go into effect.

§ 3.7 Permits, Fees, Notices and Compliance with Laws

§ 3.7.1 Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time bids are received or negotiations concluded.

§ 3.7.2 The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.

§ 3.7.3 If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.

§ 3.7.4 Concealed or Unknown Conditions

If the Contractor encounters conditions at the site that are (1) subsurface or otherwise concealed physical conditions that differ materially from those indicated in the Contract Documents or (2) unknown physical conditions of an unusual nature that differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed and in no event later than 14 days after first observance of the conditions. The Architect will promptly investigate such conditions and, if the Architect determines that they differ materially and cause an increase or decrease in the Contractor's cost of, or time required for, performance of any part of the Work, will recommend that an equitable adjustment be made in the Contract Sum or Contract Time, or both. If the Architect determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the Architect shall promptly notify the Owner and Contractor, stating the reasons. If either party disputes the Architect's determination or recommendation, that party may submit a Claim as provided in Article 15.

§ 3.7.5 If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect. Upon receipt of such notice, the Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. The Contractor shall continue to suspend such operations until otherwise instructed by the Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Article 15.

§ 3.8 Allowances

§ 3.8.1 The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. Items covered by allowances shall be supplied for such amounts and by such persons or entities as the Owner may direct, but the Contractor shall not be required to employ persons or entities to whom the Contractor has reasonable objection.

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§ 3.8.2 Unless otherwise provided in the Contract Documents,

.1 allowances shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;

.2 Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit, and other expenses contemplated for stated allowance amounts shall be included in the Contract Sum but not in the allowances; and

.3 whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect (1) the difference between actual costs and the allowances under Section 3.8.2.1 and (2) changes in Contractor's costs under Section 3.8.2.2.

§ 3.8.3 Materials and equipment under an allowance shall be selected by the Owner with reasonable promptness.

§ 3.9 Superintendent

§ 3.9.1 The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site during performance of the Work. The superintendent shall represent the Contractor, and communications given to the superintendent shall be as binding as if given to the Contractor.

§ 3.9.2 The Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the name and qualifications of a proposed superintendent. Within 14 days of receipt of the information, the Architect may notify the Contractor, stating whether the Owner or the Architect (1) has reasonable objection to the proposed superintendent or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 3.9.3 The Contractor shall not employ a proposed superintendent to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not change the superintendent without the Owner's consent, which shall not unreasonably be withheld or delayed.

§ 3.10 Contractor's Construction and Submittal Schedules

§ 3.10.1 The Contractor, promptly after being awarded the Contract, shall submit for the Owner's and Architect's information a Contractor's construction schedule for the Work. The schedule shall contain detail appropriate for the Project, including (1) the date of commencement of the Work, interim schedule milestone dates, and the date of Substantial Completion; (2) an apportionment of the Work by construction activity; and (3) the time required for completion of each portion of the Work. The schedule shall provide for the orderly progression of the Work to completion and shall not exceed time limits current under the Contract Documents. The schedule shall be revised at appropriate intervals as required by the conditions of the Work and Project.

§ 3.10.2 The Contractor, promptly after being awarded the Contract and thereafter as necessary to maintain a current submittal schedule, shall submit a submittal schedule for the Architect's approval. The Architect's approval shall not be unreasonably delayed or withheld. The submittal schedule shall (1) be coordinated with the Contractor's construction schedule, and (2) allow the Architect reasonable time to review submittals. If the Contractor fails to submit a submittal schedule, or fails to provide submittals in accordance with the approved submittal schedule, the Contractor shall not be entitled to any increase in Contract Sum or extension of Contract Time based on the time required for review of submittals.

§ 3.10.3 The Contractor shall perform the Work in general accordance with the most recent schedules submitted to the Owner and Architect.

§ 3.11 Documents and Samples at the Site

The Contractor shall make available, at the Project site, the Contract Documents, including Change Orders, Construction Change Directives, and other Modifications, in good order and marked currently to indicate field changes and selections made during construction, and the approved Shop Drawings, Product Data, Samples, and similar required submittals. These shall be in electronic form or paper copy, available to the Architect and Owner, and delivered to the Architect for submittal to the Owner upon completion of the Work as a record of the Work as constructed.

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§ 3.12 Shop Drawings, Product Data and Samples

§ 3.12.1 Shop Drawings are drawings, diagrams, schedules, and other data specially prepared for the Work by the Contractor or a Subcontractor, Sub-subcontractor, manufacturer, supplier, or distributor to illustrate some portion of the Work.

§ 3.12.2 Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Contractor to illustrate materials or equipment for some portion of the Work.

§ 3.12.3 Samples are physical examples that illustrate materials, equipment, or workmanship, and establish standards by which the Work will be judged.

§ 3.12.4 Shop Drawings, Product Data, Samples, and similar submittals are not Contract Documents. Their purpose is to demonstrate how the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents for those portions of the Work for which the Contract Documents require submittals. Review by the Architect is subject to the limitations of Section 4.2.7. Informational submittals upon which the Architect is not expected to take responsive action may be so identified in the Contract Documents. Submittals that are not required by the Contract Documents may be returned by the Architect without action.

§ 3.12.5 The Contractor shall review for compliance with the Contract Documents, approve, and submit to the Architect, Shop Drawings, Product Data, Samples, and similar submittals required by the Contract Documents, in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the Owner or of Separate Contractors.

§ 3.12.6 By submitting Shop Drawings, Product Data, Samples, and similar submittals, the Contractor represents to the Owner and Architect that the Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and (3) checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

§ 3.12.7 The Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples, or similar submittals, until the respective submittal has been approved by the Architect.

§ 3.12.8 The Work shall be in accordance with approved submittals except that the Contractor shall not be relieved of responsibility for deviations from the requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples, or similar submittals, unless the Contractor has specifically notified the Architect of such deviation at the time of submittal and (1) the Architect has given written approval to the specific deviation as a minor change in the Work, or (2) a Change Order or Construction Change Directive has been issued authorizing the deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals, by the Architect's approval thereof.

§ 3.12.9 The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by the Architect on previous submittals. In the absence of such notice, the Architect's approval of a resubmission shall not apply to such revisions.

§ 3.12.10 The Contractor shall not be required to provide professional services that constitute the practice of architecture or engineering unless such services are specifically required by the Contract Documents for a portion of the Work or unless the Contractor needs to provide such services in order to carry out the Contractor's responsibilities for construction means, methods, techniques, sequences, and procedures. The Contractor shall not be required to provide professional services in violation of applicable law.

§ 3.12.10.1 If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of the Contractor by the Contract Documents, the Owner and the Architect will specify all performance and design criteria that such services must satisfy. The Contractor shall be entitled to rely upon the adequacy and accuracy of the performance and design criteria provided in the Contract Documents. The Contractor shall cause such services or certifications to be provided by an appropriately licensed design professional,

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whose signature and seal shall appear on all drawings, calculations, specifications, certifications, Shop Drawings, and other submittals prepared by such professional. Shop Drawings, and other submittals related to the Work, designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to the Architect. The Owner and the Architect shall be entitled to rely upon the adequacy and accuracy of the services, certifications, and approvals performed or provided by such design professionals, provided the Owner and Architect have specified to the Contractor the performance and design criteria that such services must satisfy. Pursuant to this Section 3.12.10, the Architect will review and approve or take other appropriate action on submittals only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents.

§ 3.12.10.2 If the Contract Documents require the Contractor's design professional to certify that the Work has been performed in accordance with the design criteria, the Contractor shall furnish such certifications to the Architect at the time and in the form specified by the Architect.

§ 3.13 Use of Site

The Contractor shall confine operations at the site to areas permitted by applicable laws, statutes, ordinances, codes, rules and regulations, lawful orders of public authorities, and the Contract Documents and shall not unreasonably encumber the site with materials or equipment.

§ 3.14 Cutting and Patching

§ 3.14.1 The Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly. All areas requiring cutting, fitting, or patching shall be restored to the condition existing prior to the cutting, fitting, or patching, unless otherwise required by the Contract Documents.

§ 3.14.2 The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the Owner or Separate Contractors by cutting, patching, or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter construction by the Owner or a Separate Contractor except with written consent of the Owner and of the Separate Contractor. Consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold, from the Owner or a Separate Contractor, its consent to cutting or otherwise altering the Work.

§ 3.15 Cleaning Up

§ 3.15.1 The Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract. At completion of the Work, the Contractor shall remove waste materials, rubbish, the Contractor's tools, construction equipment, machinery, and surplus materials from and about the Project.

§ 3.15.2 If the Contractor fails to clean up as provided in the Contract Documents, the Owner may do so and the Owner shall be entitled to reimbursement from the Contractor.

§ 3.16 Access to Work

The Contractor shall provide the Owner and Architect with access to the Work in preparation and progress wherever located.

§ 3.17 Royalties, Patents and Copyrights

The Contractor shall pay all royalties and license fees. The Contractor shall defend suits or claims for infringement of copyrights and patent rights and shall hold the Owner and Architect harmless from loss on account thereof, but shall not be responsible for defense or loss when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents, or where the copyright violations are contained in Drawings, Specifications, or other documents prepared by the Owner or Architect. However, if an infringement of a copyright or patent is discovered by, or made known to, the Contractor, the Contractor shall be responsible for the loss unless the information is promptly furnished to the Architect.

§ 3.18 Indemnification

§ 3.18.1 To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the Owner, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work,

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provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), but only to the extent caused by the negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity that would otherwise exist as to a party or person described in this Section 3.18.

§ 3.18.2 In claims against any person or entity indemnified under this Section 3.18 by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, the indemnification obligation under Section 3.18.1 shall not be limited by a limitation on amount or type of damages, compensation, or benefits payable by or for the Contractor or a Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

ARTICLE 4 ARCHITECT

§ 4.1 General

§ 4.1.1 The Architect is the person or entity retained by the Owner pursuant to Section 2.3.2 and identified as such in the Agreement.

§ 4.1.2 Duties, responsibilities, and limitations of authority of the Architect as set forth in the Contract Documents shall not be restricted, modified, or extended without written consent of the Owner, Contractor, and Architect. Consent shall not be unreasonably withheld.

§ 4.2 Administration of the Contract

§ 4.2.1 The Architect will provide administration of the Contract as described in the Contract Documents and will be an Owner's representative during construction until the date the Architect issues the final Certificate for Payment. The Architect will have authority to act on behalf of the Owner only to the extent provided in the Contract Documents.

§ 4.2.2 The Architect will visit the site at intervals appropriate to the stage of construction, or as otherwise agreed with the Owner, to become generally familiar with the progress and quality of the portion of the Work completed, and to determine in general if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the Contract Documents. However, the Architect will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. The Architect will not have control over, charge of, or responsibility for the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely the Contractor's rights and responsibilities under the Contract Documents.

§ 4.2.3 On the basis of the site visits, the Architect will keep the Owner reasonably informed about the progress and quality of the portion of the Work completed, and promptly report to the Owner (1) known deviations from the Contract Documents, (2) known deviations from the most recent construction schedule submitted by the Contractor, and (3) defects and deficiencies observed in the Work. The Architect will not be responsible for the Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. The Architect will not have control over or charge of, and will not be responsible for acts or omissions of, the Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

§ 4.2.4 Communications

The Owner and Contractor shall include the Architect in all communications that relate to or affect the Architect's services or professional responsibilities. The Owner shall promptly notify the Architect of the substance of any direct communications between the Owner and the Contractor otherwise relating to the Project. Communications by and with the Architect's consultants shall be through the Architect. Communications by and with Subcontractors and suppliers shall be through the Contractor. Communications by and with Separate Contractors shall be through the Owner. The Contract Documents may specify other communication protocols.

§ 4.2.5 Based on the Architect's evaluations of the Contractor's Applications for Payment, the Architect will review and certify the amounts due the Contractor and will issue Certificates for Payment in such amounts.

§ 4.2.6 The Architect has authority to reject Work that does not conform to the Contract Documents. Whenever the Architect considers it necessary or advisable, the Architect will have authority to require inspection or testing of the

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Work in accordance with Sections 13.4.2 and 13.4.3, whether or not the Work is fabricated, installed or completed. However, neither this authority of the Architect nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Architect to the Contractor, Subcontractors, suppliers, their agents or employees, or other persons or entities performing portions of the Work.

§ 4.2.7 The Architect will review and approve, or take other appropriate action upon, the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents. The Architect's action will be taken in accordance with the submittal schedule approved by the Architect or, in the absence of an approved submittal schedule, with reasonable promptness while allowing sufficient time in the Architect's professional judgment to permit adequate review. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the Contractor as required by the Contract Documents. The Architect's review of the Contractor's submittals shall not relieve the Contractor of the obligations under Sections 3.3, 3.5, and 3.12. The Architect's review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

§ 4.2.8 The Architect will prepare Change Orders and Construction Change Directives, and may order minor changes in the Work as provided in Section 7.4. The Architect will investigate and make determinations and recommendations regarding concealed and unknown conditions as provided in Section 3.7.4.

§ 4.2.9 The Architect will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; issue Certificates of Substantial Completion pursuant to Section 9.8; receive and forward to the Owner, for the Owner's review and records, written warranties and related documents required by the Contract and assembled by the Contractor pursuant to Section 9.10; and issue a final Certificate for Payment pursuant to Section 9.10.

§ 4.2.10 If the Owner and Architect agree, the Architect will provide one or more Project representatives to assist in carrying out the Architect's responsibilities at the site. The Owner shall notify the Contractor of any change in the duties, responsibilities and limitations of authority of the Project representatives.

§ 4.2.11 The Architect will interpret and decide matters concerning performance under, and requirements of, the Contract Documents on written request of either the Owner or Contractor. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness.

§ 4.2.12 Interpretations and decisions of the Architect will be consistent with the intent of, and reasonably inferable from, the Contract Documents and will be in writing or in the form of drawings. When making such interpretations and decisions, the Architect will endeavor to secure faithful performance by both Owner and Contractor, will not show partiality to either, and will not be liable for results of interpretations or decisions rendered in good faith.

§ 4.2.13 The Architect's decisions on matters relating to aesthetic effect will be final if consistent with the intent expressed in the Contract Documents.

§ 4.2.14 The Architect will review and respond to requests for information about the Contract Documents. The Architect's response to such requests will be made in writing within any time limits agreed upon or otherwise with reasonable promptness. If appropriate, the Architect will prepare and issue supplemental Drawings and Specifications in response to the requests for information.

ARTICLE 5 SUBCONTRACTORS

§ 5.1 Definitions

§ 5.1.1 A Subcontractor is a person or entity who has a direct contract with the Contractor to perform a portion of the Work at the site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a Separate Contractor or the subcontractors of a Separate Contractor.

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§ 5.1.2 A Sub-subcontractor is a person or entity who has a direct or indirect contract with a Subcontractor to perform a portion of the Work at the site. The term "Sub-subcontractor" is referred to throughout the Contract Documents as if singular in number and means a Sub-subcontractor or an authorized representative of the Sub-subcontractor.

§ 5.2 Award of Subcontracts and Other Contracts for Portions of the Work

§ 5.2.1 Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the persons or entities proposed for each principal portion of the Work, including those who are to furnish materials or equipment fabricated to a special design. Within 14 days of receipt of the information, the Architect may notify the Contractor whether the Owner or the Architect (1) has reasonable objection to any such proposed person or entity or (2) requires additional time for review. Failure of the Architect to provide notice within the 14-day period shall constitute notice of no reasonable objection.

§ 5.2.2 The Contractor shall not contract with a proposed person or entity to whom the Owner or Architect has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.

§ 5.2.3 If the Owner or Architect has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner or Architect has no reasonable objection. If the proposed but rejected Subcontractor was reasonably capable of performing the Work, the Contract Sum and Contract Time shall be increased or decreased by the difference, if any, occasioned by such change, and an appropriate Change Order shall be issued before commencement of the substitute Subcontractor's Work. However, no increase in the Contract Sum or Contract Time shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

§ 5.2.4 The Contractor shall not substitute a Subcontractor, person, or entity for one previously selected if the Owner or Architect makes reasonable objection to such substitution.

§ 5.3 Subcontractual Relations

By appropriate written agreement, the Contractor shall require each Subcontractor, to the extent of the Work to be performed by the Subcontractor, to be bound to the Contractor by terms of the Contract Documents, and to assume toward the Contractor all the obligations and responsibilities, including the responsibility for safety of the Subcontractor's Work that the Contractor, by these Contract Documents, assumes toward the Owner and Architect. Each subcontract agreement shall preserve and protect the rights of the Owner and Architect under the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights, and shall allow to the Subcontractor, unless specifically provided otherwise in the subcontract agreement, the benefit of all rights, remedies, and redress against the Contractor that the Contractor, by the Contract Documents, has against the Owner. Where appropriate, the Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. The Contractor shall make available to each proposed Subcontractor, prior to the execution of the subcontract agreement, copies of the Contract Documents to which the Subcontractor will be bound, and, upon written request of the Subcontractor, identify to the Subcontractor terms and conditions of the proposed subcontract agreement that may be at variance with the Contract Documents. Subcontractors will similarly make copies of applicable portions of such documents available to their respective proposed Sub-subcontractors.

§ 5.4 Contingent Assignment of Subcontracts

§ 5.4.1 Each subcontract agreement for a portion of the Work is assigned by the Contractor to the Owner, provided that

- **.1** assignment is effective only after termination of the Contract by the Owner for cause pursuant to Section 14.2 and only for those subcontract agreements that the Owner accepts by notifying the Subcontractor and Contractor; and
- **.2** assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

When the Owner accepts the assignment of a subcontract agreement, the Owner assumes the Contractor's rights and obligations under the subcontract.

§ 5.4.2 Upon such assignment, if the Work has been suspended for more than 30 days, the Subcontractor's compensation shall be equitably adjusted for increases in cost resulting from the suspension.

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§ 5.4.3 Upon assignment to the Owner under this Section 5.4, the Owner may further assign the subcontract to a successor contractor or other entity. If the Owner assigns the subcontract to a successor contractor or other entity, the Owner shall nevertheless remain legally responsible for all of the successor contractor's obligations under the subcontract.

ARTICLE 6 CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

§ 6.1 Owner's Right to Perform Construction and to Award Separate Contracts

§ 6.1.1 The term "Separate Contractor(s)" shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner's own forces, and with Separate Contractors retained under Conditions of the Contract substantially similar to those of this Contract, including those provisions of the Conditions of the Contract related to insurance and waiver of subrogation.

§ 6.1.2 When separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate Owner-Contractor Agreement.

§ 6.1.3 The Owner shall provide for coordination of the activities of the Owner's own forces and of each Separate Contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall participate with any Separate Contractors and the Owner in reviewing their construction schedules. The Contractor shall make any revisions to its construction schedule deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, Separate Contractors, and the Owner until subsequently revised.

§ 6.1.4 Unless otherwise provided in the Contract Documents, when the Owner performs construction or operations related to the Project with the Owner's own forces or with Separate Contractors, the Owner or its Separate Contractors shall have the same obligations and rights that the Contractor has under the Conditions of the Contract, including, without excluding others, those stated in Article 3, this Article 6, and Articles 10, 11, and 12.

§ 6.2 Mutual Responsibility

§ 6.2.1 The Contractor shall afford the Owner and Separate Contractors reasonable opportunity for introduction and storage of their materials and equipment and performance of their activities, and shall connect and coordinate the Contractor's construction and operations with theirs as required by the Contract Documents.

§ 6.2.2 If part of the Contractor's Work depends for proper execution or results upon construction or operations by the Owner or a Separate Contractor, the Contractor shall, prior to proceeding with that portion of the Work, promptly notify the Architect of apparent discrepancies or defects in the construction or operations by the Owner or Separate Contractor that would render it unsuitable for proper execution and results of the Contractor's Work. Failure of the Contractor to notify the Architect of apparent discrepancies or defects prior to proceeding with the Work shall constitute an acknowledgment that the Owner's or Separate Contractor's completed or partially completed construction is fit and proper to receive the Contractor's Work. The Contractor shall not be responsible for discrepancies or defects in the construction or operations by the Owner or Separate Contractor that are not apparent.

§ 6.2.3 The Contractor shall reimburse the Owner for costs the Owner incurs that are payable to a Separate Contractor because of the Contractor's delays, improperly timed activities or defective construction. The Owner shall be responsible to the Contractor for costs the Contractor incurs because of a Separate Contractor's delays, improperly timed activities, damage to the Work or defective construction.

§ 6.2.4 The Contractor shall promptly remedy damage that the Contractor wrongfully causes to completed or partially completed construction or to property of the Owner or Separate Contractor as provided in Section 10.2.5.

§ 6.2.5 The Owner and each Separate Contractor shall have the same responsibilities for cutting and patching as are described for the Contractor in Section 3.14.

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§ 6.3 Owner's Right to Clean Up

If a dispute arises among the Contractor, Separate Contractors, and the Owner as to the responsibility under their respective contracts for maintaining the premises and surrounding area free from waste materials and rubbish, the Owner may clean up and the Architect will allocate the cost among those responsible.

ARTICLE 7 CHANGES IN THE WORK

§ 7.1 General

§ 7.1.1 Changes in the Work may be accomplished after execution of the Contract, and without invalidating the Contract, by Change Order, Construction Change Directive or order for a minor change in the Work, subject to the limitations stated in this Article 7 and elsewhere in the Contract Documents.

§ 7.1.2 A Change Order shall be based upon agreement among the Owner, Contractor, and Architect. A Construction Change Directive requires agreement by the Owner and Architect and may or may not be agreed to by the Contractor. An order for a minor change in the Work may be issued by the Architect alone.

§ 7.1.3 Changes in the Work shall be performed under applicable provisions of the Contract Documents. The Contractor shall proceed promptly with changes in the Work, unless otherwise provided in the Change Order, Construction Change Directive, or order for a minor change in the Work.

§ 7.2 Change Orders

§ 7.2.1 A Change Order is a written instrument prepared by the Architect and signed by the Owner, Contractor, and Architect stating their agreement upon all of the following:

- **.1** The change in the Work;
- **.2** The amount of the adjustment, if any, in the Contract Sum; and
- **.3** The extent of the adjustment, if any, in the Contract Time.

§ 7.3 Construction Change Directives

§ 7.3.1 A Construction Change Directive is a written order prepared by the Architect and signed by the Owner and Architect, directing a change in the Work prior to agreement on adjustment, if any, in the Contract Sum or Contract Time, or both. The Owner may by Construction Change Directive, without invalidating the Contract, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, the Contract Sum and Contract Time being adjusted accordingly.

§ 7.3.2 A Construction Change Directive shall be used in the absence of total agreement on the terms of a Change Order.

§ 7.3.3 If the Construction Change Directive provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods:

- **.1** Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation;
- **.2** Unit prices stated in the Contract Documents or subsequently agreed upon;
- **.3** Cost to be determined in a manner agreed upon by the parties and a mutually acceptable fixed or percentage fee; or
- **.4** As provided in Section 7.3.4.

§ 7.3.4 If the Contractor does not respond promptly or disagrees with the method for adjustment in the Contract Sum, the Architect shall determine the adjustment on the basis of reasonable expenditures and savings of those performing the Work attributable to the change, including, in case of an increase in the Contract Sum, an amount for overhead and profit as set forth in the Agreement, or if no such amount is set forth in the Agreement, a reasonable amount. In such case, and also under Section 7.3.3.3, the Contractor shall keep and present, in such form as the Architect may prescribe, an itemized accounting together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this Section 7.3.4 shall be limited to the following:

- **.1** Costs of labor, including applicable payroll taxes, fringe benefits required by agreement or custom, workers' compensation insurance, and other employee costs approved by the Architect;
- **.2** Costs of materials, supplies, and equipment, including cost of transportation, whether incorporated or consumed;

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.3 Rental costs of machinery and equipment, exclusive of hand tools, whether rented from the Contractor or others;

.4 Costs of premiums for all bonds and insurance, permit fees, and sales, use, or similar taxes, directly related to the change; and

.5 Costs of supervision and field office personnel directly attributable to the change.

§ 7.3.5 If the Contractor disagrees with the adjustment in the Contract Time, the Contractor may make a Claim in accordance with applicable provisions of Article 15.

§ 7.3.6 Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Architect of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Sum or Contract Time.

§ 7.3.7 A Construction Change Directive signed by the Contractor indicates the Contractor's agreement therewith, including adjustment in Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

§ 7.3.8 The amount of credit to be allowed by the Contractor to the Owner for a deletion or change that results in a net decrease in the Contract Sum shall be actual net cost as confirmed by the Architect. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for overhead and profit shall be figured on the basis of net increase, if any, with respect to that change.

§ 7.3.9 Pending final determination of the total cost of a Construction Change Directive to the Owner, the Contractor may request payment for Work completed under the Construction Change Directive in Applications for Payment. The Architect will make an interim determination for purposes of monthly certification for payment for those costs and certify for payment the amount that the Architect determines, in the Architect's professional judgment, to be reasonably justified. The Architect's interim determination of cost shall adjust the Contract Sum on the same basis as a Change Order, subject to the right of either party to disagree and assert a Claim in accordance with Article 15.

§ 7.3.10 When the Owner and Contractor agree with a determination made by the Architect concerning the adjustments in the Contract Sum and Contract Time, or otherwise reach agreement upon the adjustments, such agreement shall be effective immediately and the Architect will prepare a Change Order. Change Orders may be issued for all or any part of a Construction Change Directive.

§ 7.4 Minor Changes in the Work

The Architect may order minor changes in the Work that are consistent with the intent of the Contract Documents and do not involve an adjustment in the Contract Sum or an extension of the Contract Time. The Architect's order for minor changes shall be in writing. If the Contractor believes that the proposed minor change in the Work will affect the Contract Sum or Contract Time, the Contractor shall notify the Architect and shall not proceed to implement the change in the Work. If the Contractor performs the Work set forth in the Architect's order for a minor change without prior notice to the Architect that such change will affect the Contract Sum or Contract Time, the Contractor waives any adjustment to the Contract Sum or extension of the Contract Time.

ARTICLE 8 TIME

§ 8.1 Definitions

§ 8.1.1 Unless otherwise provided, Contract Time is the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

§ 8.1.2 The date of commencement of the Work is the date established in the Agreement.

§ 8.1.3 The date of Substantial Completion is the date certified by the Architect in accordance with Section 9.8.

§ 8.1.4 The term "day" as used in the Contract Documents shall mean calendar day unless otherwise specifically defined.

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§ 8.2 Progress and Completion

§ 8.2.1 Time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

§ 8.2.2 The Contractor shall not knowingly, except by agreement or instruction of the Owner in writing, commence the Work prior to the effective date of insurance required to be furnished by the Contractor and Owner.

§ 8.2.3 The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

§ 8.3 Delays and Extensions of Time

§ 8.3.1 If the Contractor is delayed at any time in the commencement or progress of the Work by (1) an act or neglect of the Owner or Architect, of an employee of either, or of a Separate Contractor; (2) by changes ordered in the Work; (3) by labor disputes, fire, unusual delay in deliveries, unavoidable casualties, adverse weather conditions documented in accordance with Section 15.1.6.2, or other causes beyond the Contractor's control; (4) by delay authorized by the Owner pending mediation and binding dispute resolution; or (5) by other causes that the Contractor asserts, and the Architect determines, justify delay, then the Contract Time shall be extended for such reasonable time as the Architect may determine.

§ 8.3.2 Claims relating to time shall be made in accordance with applicable provisions of Article 15.

§ 8.3.3 This Section 8.3 does not preclude recovery of damages for delay by either party under other provisions of the Contract Documents.

ARTICLE 9 PAYMENTS AND COMPLETION

§ 9.1 Contract Sum

§ 9.1.1 The Contract Sum is stated in the Agreement and, including authorized adjustments, is the total amount payable by the Owner to the Contractor for performance of the Work under the Contract Documents.

§ 9.1.2 If unit prices are stated in the Contract Documents or subsequently agreed upon, and if quantities originally contemplated are materially changed so that application of such unit prices to the actual quantities causes substantial inequity to the Owner or Contractor, the applicable unit prices shall be equitably adjusted.

§ 9.2 Schedule of Values

Where the Contract is based on a stipulated sum or Guaranteed Maximum Price, the Contractor shall submit a schedule of values to the Architect before the first Application for Payment, allocating the entire Contract Sum to the various portions of the Work. The schedule of values shall be prepared in the form, and supported by the data to substantiate its accuracy, required by the Architect. This schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment. Any changes to the schedule of values shall be submitted to the Architect and supported by such data to substantiate its accuracy as the Architect may require, and unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's subsequent Applications for Payment.

§ 9.3 Applications for Payment

§ 9.3.1 At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2, for completed portions of the Work. The application shall be notarized, if required, and supported by all data substantiating the Contractor's right to payment that the Owner or Architect require, such as copies of requisitions, and releases and waivers of liens from Subcontractors and suppliers, and shall reflect retainage if provided for in the Contract Documents.

§ 9.3.1.1 As provided in Section 7.3.9, such applications may include requests for payment on account of changes in the Work that have been properly authorized by Construction Change Directives, or by interim determinations of the Architect, but not yet included in Change Orders.

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§ 9.3.1.2 Applications for Payment shall not include requests for payment for portions of the Work for which the Contractor does not intend to pay a Subcontractor or supplier, unless such Work has been performed by others whom the Contractor intends to pay.

§ 9.3.2 Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and equipment delivered and suitably stored at the site for subsequent incorporation in the Work. If approved in advance by the Owner, payment may similarly be made for materials and equipment suitably stored off the site at a location agreed upon in writing. Payment for materials and equipment stored on or off the site shall be conditioned upon compliance by the Contractor with procedures satisfactory to the Owner to establish the Owner's title to such materials and equipment or otherwise protect the Owner's interest, and shall include the costs of applicable insurance, storage, and transportation to the site, for such materials and equipment stored off the site.

§ 9.3.3 The Contractor warrants that title to all Work covered by an Application for Payment will pass to the Owner no later than the time of payment. The Contractor further warrants that upon submittal of an Application for Payment all Work for which Certificates for Payment have been previously issued and payments received from the Owner shall, to the best of the Contractor's knowledge, information, and belief, be free and clear of liens, claims, security interests, or encumbrances, in favor of the Contractor, Subcontractors, suppliers, or other persons or entities that provided labor, materials, and equipment relating to the Work.

§ 9.4 Certificates for Payment

§ 9.4.1 The Architect will, within seven days after receipt of the Contractor's Application for Payment, either (1) issue to the Owner a Certificate for Payment in the full amount of the Application for Payment, with a copy to the Contractor; or (2) issue to the Owner a Certificate for Payment for such amount as the Architect determines is properly due, and notify the Contractor and Owner of the Architect's reasons for withholding certification in part as provided in Section 9.5.1; or (3) withhold certification of the entire Application for Payment, and notify the Contractor and Owner of the Architect's reason for withholding certification in whole as provided in Section 9.5.1.

§ 9.4.2 The issuance of a Certificate for Payment will constitute a representation by the Architect to the Owner, based on the Architect's evaluation of the Work and the data in the Application for Payment, that, to the best of the Architect's knowledge, information, and belief, the Work has progressed to the point indicated, the quality of the Work is in accordance with the Contract Documents, and that the Contractor is entitled to payment in the amount certified. The foregoing representations are subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to results of subsequent tests and inspections, to correction of minor deviations from the Contract Documents prior to completion, and to specific qualifications expressed by the Architect. However, the issuance of a Certificate for Payment will not be a representation that the Architect has (1) made exhaustive or continuous on-site inspections to check the quality or quantity of the Work; (2) reviewed construction means, methods, techniques, sequences, or procedures; (3) reviewed copies of requisitions received from Subcontractors and suppliers and other data requested by the Owner to substantiate the Contractor's right to payment; or (4) made examination to ascertain how or for what purpose the Contractor has used money previously paid on account of the Contract Sum.

§ 9.5 Decisions to Withhold Certification

§ 9.5.1 The Architect may withhold a Certificate for Payment in whole or in part, to the extent reasonably necessary to protect the Owner, if in the Architect's opinion the representations to the Owner required by Section 9.4.2 cannot be made. If the Architect is unable to certify payment in the amount of the Application, the Architect will notify the Contractor and Owner as provided in Section 9.4.1. If the Contractor and Architect cannot agree on a revised amount, the Architect will promptly issue a Certificate for Payment for the amount for which the Architect is able to make such representations to the Owner. The Architect may also withhold a Certificate for Payment or, because of subsequently discovered evidence, may nullify the whole or a part of a Certificate for Payment previously issued, to such extent as may be necessary in the Architect's opinion to protect the Owner from loss for which the Contractor is responsible, including loss resulting from acts and omissions described in Section 3.3.2, because of

- **.1** defective Work not remedied;
- **.2** third party claims filed or reasonable evidence indicating probable filing of such claims, unless security acceptable to the Owner is provided by the Contractor;
- **.3** failure of the Contractor to make payments properly to Subcontractors or suppliers for labor, materials or equipment;
- **.4** reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;

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.5 damage to the Owner or a Separate Contractor;
.6 reasonable evidence that the Work will not be completed within the Contract Time, and that the unpaid balance would not be adequate to cover actual or liquidated damages for the anticipated delay; or
.7 repeated failure to carry out the Work in accordance with the Contract Documents.

§ 9.5.2 When either party disputes the Architect's decision regarding a Certificate for Payment under Section 9.5.1, in whole or in part, that party may submit a Claim in accordance with Article 15.

§ 9.5.3 When the reasons for withholding certification are removed, certification will be made for amounts previously withheld.

§ 9.5.4 If the Architect withholds certification for payment under Section 9.5.1.3, the Owner may, at its sole option, issue joint checks to the Contractor and to any Subcontractor or supplier to whom the Contractor failed to make payment for Work properly performed or material or equipment suitably delivered. If the Owner makes payments by joint check, the Owner shall notify the Architect and the Contractor shall reflect such payment on its next Application for Payment.

§ 9.6 Progress Payments

§ 9.6.1 After the Architect has issued a Certificate for Payment, the Owner shall make payment in the manner and within the time provided in the Contract Documents, and shall so notify the Architect.

§ 9.6.2 The Contractor shall pay each Subcontractor, no later than seven days after receipt of payment from the Owner, the amount to which the Subcontractor is entitled, reflecting percentages actually retained from payments to the Contractor on account of the Subcontractor's portion of the Work. The Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to Sub-subcontractors in a similar manner.

§ 9.6.3 The Architect will, on request, furnish to a Subcontractor, if practicable, information regarding percentages of completion or amounts applied for by the Contractor and action taken thereon by the Architect and Owner on account of portions of the Work done by such Subcontractor.

§ 9.6.4 The Owner has the right to request written evidence from the Contractor that the Contractor has properly paid Subcontractors and suppliers amounts paid by the Owner to the Contractor for subcontracted Work. If the Contractor fails to furnish such evidence within seven days, the Owner shall have the right to contact Subcontractors and suppliers to ascertain whether they have been properly paid. Neither the Owner nor Architect shall have an obligation to pay, or to see to the payment of money to, a Subcontractor or supplier, except as may otherwise be required by law.

§ 9.6.5 The Contractor's payments to suppliers shall be treated in a manner similar to that provided in Sections 9.6.2, 9.6.3 and 9.6.4.

§ 9.6.6 A Certificate for Payment, a progress payment, or partial or entire use or occupancy of the Project by the Owner shall not constitute acceptance of Work not in accordance with the Contract Documents.

§ 9.6.7 Unless the Contractor provides the Owner with a payment bond in the full penal sum of the Contract Sum, payments received by the Contractor for Work properly performed by Subcontractors or provided by suppliers shall be held by the Contractor for those Subcontractors or suppliers who performed Work or furnished materials, or both, under contract with the Contractor for which payment was made by the Owner. Nothing contained herein shall require money to be placed in a separate account and not commingled with money of the Contractor, create any fiduciary liability or tort liability on the part of the Contractor for breach of trust, or entitle any person or entity to an award of punitive damages against the Contractor for breach of the requirements of this provision.

§ 9.6.8 Provided the Owner has fulfilled its payment obligations under the Contract Documents, the Contractor shall defend and indemnify the Owner from all loss, liability, damage or expense, including reasonable attorney's fees and litigation expenses, arising out of any lien claim or other claim for payment by any Subcontractor or supplier of any tier. Upon receipt of notice of a lien claim or other claim for payment, the Owner shall notify the Contractor. If approved by the applicable court, when required, the Contractor may substitute a surety bond for the property against which the lien or other claim for payment has been asserted.

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§ 9.7 Failure of Payment

If the Architect does not issue a Certificate for Payment, through no fault of the Contractor, within seven days after receipt of the Contractor's Application for Payment, or if the Owner does not pay the Contractor within seven days after the date established in the Contract Documents, the amount certified by the Architect or awarded by binding dispute resolution, then the Contractor may, upon seven additional days' notice to the Owner and Architect, stop the Work until payment of the amount owing has been received. The Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable costs of shutdown, delay and start-up, plus interest as provided for in the Contract Documents.

§ 9.8 Substantial Completion

§ 9.8.1 Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use.

§ 9.8.2 When the Contractor considers that the Work, or a portion thereof which the Owner agrees to accept separately, is substantially complete, the Contractor shall prepare and submit to the Architect a comprehensive list of items to be completed or corrected prior to final payment. Failure to include an item on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents.

§ 9.8.3 Upon receipt of the Contractor's list, the Architect will make an inspection to determine whether the Work or designated portion thereof is substantially complete. If the Architect's inspection discloses any item, whether or not included on the Contractor's list, which is not sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work or designated portion thereof for its intended use, the Contractor shall, before issuance of the Certificate of Substantial Completion, complete or correct such item upon notification by the Architect. In such case, the Contractor shall then submit a request for another inspection by the Architect to determine Substantial Completion.

§ 9.8.4 When the Work or designated portion thereof is substantially complete, the Architect will prepare a Certificate of Substantial Completion that shall establish the date of Substantial Completion; establish responsibilities of the Owner and Contractor for security, maintenance, heat, utilities, damage to the Work and insurance; and fix the time within which the Contractor shall finish all items on the list accompanying the Certificate. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof unless otherwise provided in the Certificate of Substantial Completion.

§ 9.8.5 The Certificate of Substantial Completion shall be submitted to the Owner and Contractor for their written acceptance of responsibilities assigned to them in the Certificate. Upon such acceptance, and consent of surety if any, the Owner shall make payment of retainage applying to the Work or designated portion thereof. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents.

§ 9.9 Partial Occupancy or Use

§ 9.9.1 The Owner may occupy or use any completed or partially completed portion of the Work at any stage when such portion is designated by separate agreement with the Contractor, provided such occupancy or use is consented to by the insurer and authorized by public authorities having jurisdiction over the Project. Such partial occupancy or use may commence whether or not the portion is substantially complete, provided the Owner and Contractor have accepted in writing the responsibilities assigned to each of them for payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work and insurance, and have agreed in writing concerning the period for correction of the Work and commencement of warranties required by the Contract Documents. When the Contractor considers a portion substantially complete, the Contractor shall prepare and submit a list to the Architect as provided under Section 9.8.2. Consent of the Contractor to partial occupancy or use shall not be unreasonably withheld. The stage of the progress of the Work shall be determined by written agreement between the Owner and Contractor or, if no agreement is reached, by decision of the Architect.

§ 9.9.2 Immediately prior to such partial occupancy or use, the Owner, Contractor, and Architect shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

§ 9.9.3 Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

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§ 9.10 Final Completion and Final Payment

§ 9.10.1 Upon receipt of the Contractor's notice that the Work is ready for final inspection and acceptance and upon receipt of a final Application for Payment, the Architect will promptly make such inspection. When the Architect finds the Work acceptable under the Contract Documents and the Contract fully performed, the Architect will promptly issue a final Certificate for Payment stating that to the best of the Architect's knowledge, information and belief, and on the basis of the Architect's on-site visits and inspections, the Work has been completed in accordance with the Contract Documents and that the entire balance found to be due the Contractor and noted in the final Certificate is due and payable. The Architect's final Certificate for Payment will constitute a further representation that conditions listed in Section 9.10.2 as precedent to the Contractor's being entitled to final payment have been fulfilled.

§ 9.10.2 Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Architect (1) an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which the Owner or the Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, (2) a certificate evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect, (3) a written statement that the Contractor knows of no reason that the insurance will not be renewable to cover the period required by the Contract Documents, (4) consent of surety, if any, to final payment, (5) documentation of any special warranties, such as manufacturers' warranties or specific Subcontractor warranties, and (6) if required by the Owner, other data establishing payment or satisfaction of obligations, such as receipts and releases and waivers of liens, claims, security interests, or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner. If a Subcontractor refuses to furnish a release or waiver required by the Owner, the Contractor may furnish a bond satisfactory to the Owner to indemnify the Owner against such lien, claim, security interest, or encumbrance. If a lien, claim, security interest, or encumbrance remains unsatisfied after payments are made, the Contractor shall refund to the Owner all money that the Owner may be compelled to pay in discharging the lien, claim, security interest, or encumbrance, including all costs and reasonable attorneys' fees.

§ 9.10.3 If, after Substantial Completion of the Work, final completion thereof is materially delayed through no fault of the Contractor or by issuance of Change Orders affecting final completion, and the Architect so confirms, the Owner shall, upon application by the Contractor and certification by the Architect, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed, corrected, and accepted. If the remaining balance for Work not fully completed or corrected is less than retainage stipulated in the Contract Documents, and if bonds have been furnished, the written consent of the surety to payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by the Contractor to the Architect prior to certification of such payment. Such payment shall be made under terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

§ 9.10.4 The making of final payment shall constitute a waiver of Claims by the Owner except those arising from

- **.1** liens, Claims, security interests, or encumbrances arising out of the Contract and unsettled;
- **.2** failure of the Work to comply with the requirements of the Contract Documents;
- **.3** terms of special warranties required by the Contract Documents; or
- **.4** audits performed by the Owner, if permitted by the Contract Documents, after final payment.

§ 9.10.5 Acceptance of final payment by the Contractor, a Subcontractor, or a supplier, shall constitute a waiver of claims by that payee except those previously made in writing and identified by that payee as unsettled at the time of final Application for Payment.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

§ 10.1 Safety Precautions and Programs

The Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Contract.

§ 10.2 Safety of Persons and Property

§ 10.2.1 The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to

- **.1** employees on the Work and other persons who may be affected thereby;

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.2 the Work and materials and equipment to be incorporated therein, whether in storage on or off the site, under care, custody, or control of the Contractor, a Subcontractor, or a Sub-subcontractor; and

.3 other property at the site or adjacent thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction.

§ 10.2.2 The Contractor shall comply with, and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities, bearing on safety of persons or property or their protection from damage, injury, or loss.

§ 10.2.3 The Contractor shall implement, erect, and maintain, as required by existing conditions and performance of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards; promulgating safety regulations; and notifying the owners and users of adjacent sites and utilities of the safeguards.

§ 10.2.4 When use or storage of explosives or other hazardous materials or equipment, or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under supervision of properly qualified personnel.

§ 10.2.5 The Contractor shall promptly remedy damage and loss (other than damage or loss insured under property insurance required by the Contract Documents) to property referred to in Sections 10.2.1.2 and 10.2.1.3 caused in whole or in part by the Contractor, a Subcontractor, a Sub-subcontractor, or anyone directly or indirectly employed by any of them, or by anyone for whose acts they may be liable and for which the Contractor is responsible under Sections 10.2.1.2 and 10.2.1.3. The Contractor may make a Claim for the cost to remedy the damage or loss to the extent such damage or loss is attributable to acts or omissions of the Owner or Architect or anyone directly or indirectly employed by either of them, or by anyone for whose acts either of them may be liable, and not attributable to the fault or negligence of the Contractor. The foregoing obligations of the Contractor are in addition to the Contractor's obligations under Section 3.18.

§ 10.2.6 The Contractor shall designate a responsible member of the Contractor's organization at the site whose duty shall be the prevention of accidents. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the Owner and Architect.

§ 10.2.7 The Contractor shall not permit any part of the construction or site to be loaded so as to cause damage or create an unsafe condition.

§ 10.2.8 Injury or Damage to Person or Property

If either party suffers injury or damage to person or property because of an act or omission of the other party, or of others for whose acts such party is legally responsible, notice of the injury or damage, whether or not insured, shall be given to the other party within a reasonable time not exceeding 21 days after discovery. The notice shall provide sufficient detail to enable the other party to investigate the matter.

§ 10.3 Hazardous Materials and Substances

§ 10.3.1 The Contractor is responsible for compliance with any requirements included in the Contract Documents regarding hazardous materials or substances. If the Contractor encounters a hazardous material or substance not addressed in the Contract Documents and if reasonable precautions will be inadequate to prevent foreseeable bodily injury or death to persons resulting from a material or substance, including but not limited to asbestos or polychlorinated biphenyl (PCB), encountered on the site by the Contractor, the Contractor shall, upon recognizing the condition, immediately stop Work in the affected area and notify the Owner and Architect of the condition.

§ 10.3.2 Upon receipt of the Contractor's notice, the Owner shall obtain the services of a licensed laboratory to verify the presence or absence of the material or substance reported by the Contractor and, in the event such material or substance is found to be present, to cause it to be rendered harmless. Unless otherwise required by the Contract Documents, the Owner shall furnish in writing to the Contractor and Architect the names and qualifications of persons or entities who are to perform tests verifying the presence or absence of the material or substance or who are to perform the task of removal or safe containment of the material or substance. The Contractor and the Architect will promptly reply to the Owner in writing stating whether or not either has reasonable objection to the persons or entities

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proposed by the Owner. If either the Contractor or Architect has an objection to a person or entity proposed by the Owner, the Owner shall propose another to whom the Contractor and the Architect have no reasonable objection. When the material or substance has been rendered harmless, Work in the affected area shall resume upon written agreement of the Owner and Contractor. By Change Order, the Contract Time shall be extended appropriately and the Contract Sum shall be increased by the amount of the Contractor's reasonable additional costs of shutdown, delay, and start-up.

§ 10.3.3 To the fullest extent permitted by law, the Owner shall indemnify and hold harmless the Contractor, Subcontractors, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages, losses, and expenses, including but not limited to attorneys' fees, arising out of or resulting from performance of the Work in the affected area if in fact the material or substance presents the risk of bodily injury or death as described in Section 10.3.1 and has not been rendered harmless, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself), except to the extent that such damage, loss, or expense is due to the fault or negligence of the party seeking indemnity.

§ 10.3.4 The Owner shall not be responsible under this Section 10.3 for hazardous materials or substances the Contractor brings to the site unless such materials or substances are required by the Contract Documents. The Owner shall be responsible for hazardous materials or substances required by the Contract Documents, except to the extent of the Contractor's fault or negligence in the use and handling of such materials or substances.

§ 10.3.5 The Contractor shall reimburse the Owner for the cost and expense the Owner incurs (1) for remediation of hazardous materials or substances the Contractor brings to the site and negligently handles, or (2) where the Contractor fails to perform its obligations under Section 10.3.1, except to the extent that the cost and expense are due to the Owner's fault or negligence.

§ 10.3.6 If, without negligence on the part of the Contractor, the Contractor is held liable by a government agency for the cost of remediation of a hazardous material or substance solely by reason of performing Work as required by the Contract Documents, the Owner shall reimburse the Contractor for all cost and expense thereby incurred.

§ 10.4 Emergencies

In an emergency affecting safety of persons or property, the Contractor shall act, at the Contractor's discretion, to prevent threatened damage, injury, or loss. Additional compensation or extension of time claimed by the Contractor on account of an emergency shall be determined as provided in Article 15 and Article 7.

ARTICLE 11 INSURANCE AND BONDS

§ 11.1 Contractor's Insurance and Bonds

§ 11.1.1 The Contractor shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Contractor shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located. The Owner, Architect, and Architect's consultants shall be named as additional insureds under the Contractor's commercial general liability policy or as otherwise described in the Contract Documents.

§ 11.1.2 The Contractor shall provide surety bonds of the types, for such penal sums, and subject to such terms and conditions as required by the Contract Documents. The Contractor shall purchase and maintain the required bonds from a company or companies lawfully authorized to issue surety bonds in the jurisdiction where the Project is located.

§ 11.1.3 Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract, the Contractor shall promptly furnish a copy of the bonds or shall authorize a copy to be furnished.

§ 11.1.4 Notice of Cancellation or Expiration of Contractor's Required Insurance. Within three (3) business days of the date the Contractor becomes aware of an impending or actual cancellation or expiration of any insurance required by the Contract Documents, the Contractor shall provide notice to the Owner of such impending or actual cancellation or expiration. Upon receipt of notice from the Contractor, the Owner shall, unless the lapse in coverage arises from an act or omission of the Owner, have the right to stop the Work until the lapse in coverage has been cured by the

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procurement of replacement coverage by the Contractor. The furnishing of notice by the Contractor shall not relieve the Contractor of any contractual obligation to provide any required coverage.

§ 11.2 Owner's Insurance

§ 11.2.1 The Owner shall purchase and maintain insurance of the types and limits of liability, containing the endorsements, and subject to the terms and conditions, as described in the Agreement or elsewhere in the Contract Documents. The Owner shall purchase and maintain the required insurance from an insurance company or insurance companies lawfully authorized to issue insurance in the jurisdiction where the Project is located.

§ 11.2.2 Failure to Purchase Required Property Insurance. If the Owner fails to purchase and maintain the required property insurance, with all of the coverages and in the amounts described in the Agreement or elsewhere in the Contract Documents, the Owner shall inform the Contractor in writing prior to commencement of the Work. Upon receipt of notice from the Owner, the Contractor may delay commencement of the Work and may obtain insurance that will protect the interests of the Contractor, Subcontractors, and Sub-Subcontractors in the Work. When the failure to provide coverage has been cured or resolved, the Contract Sum and Contract Time shall be equitably adjusted. In the event the Owner fails to procure coverage, the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent the loss to the Owner would have been covered by the insurance to have been procured by the Owner. The cost of the insurance shall be charged to the Owner by a Change Order. If the Owner does not provide written notice, and the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain the required insurance, the Owner shall reimburse the Contractor for all reasonable costs and damages attributable thereto.

§ 11.2.3 Notice of Cancellation or Expiration of Owner's Required Property Insurance. Within three (3) business days of the date the Owner becomes aware of an impending or actual cancellation or expiration of any property insurance required by the Contract Documents, the Owner shall provide notice to the Contractor of such impending or actual cancellation or expiration. Unless the lapse in coverage arises from an act or omission of the Contractor: (1) the Contractor, upon receipt of notice from the Owner, shall have the right to stop the Work until the lapse in coverage has been cured by the procurement of replacement coverage by either the Owner or the Contractor; (2) the Contract Time and Contract Sum shall be equitably adjusted; and (3) the Owner waives all rights against the Contractor, Subcontractors, and Sub-subcontractors to the extent any loss to the Owner would have been covered by the insurance had it not expired or been cancelled. If the Contractor purchases replacement coverage, the cost of the insurance shall be charged to the Owner by an appropriate Change Order. The furnishing of notice by the Owner shall not relieve the Owner of any contractual obligation to provide required insurance.

§ 11.3 Waivers of Subrogation

§ 11.3.1 The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents, and employees, each of the other; (2) the Architect and Architect's consultants; and (3) Separate Contractors, if any, and any of their subcontractors, sub-subcontractors, agents, and employees, for damages caused by fire, or other causes of loss, to the extent those losses are covered by property insurance required by the Agreement or other property insurance applicable to the Project, except such rights as they have to proceeds of such insurance. The Owner or Contractor, as appropriate, shall require similar written waivers in favor of the individuals and entities identified above from the Architect, Architect's consultants, Separate Contractors, subcontractors, and sub-subcontractors. The policies of insurance purchased and maintained by each person or entity agreeing to waive claims pursuant to this section 11.3.1 shall not prohibit this waiver of subrogation. This waiver of subrogation shall be effective as to a person or entity (1) even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, (2) even though that person or entity did not pay the insurance premium directly or indirectly, or (3) whether or not the person or entity had an insurable interest in the damaged property.

§ 11.3.2 If during the Project construction period the Owner insures properties, real or personal or both, at or adjacent to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project during the construction period, to the extent permissible by such policies, the Owner waives all rights in accordance with the terms of Section 11.3.1 for damages caused by fire or other causes of loss covered by this separate property insurance.

§ 11.4 Loss of Use, Business Interruption, and Delay in Completion Insurance

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The Owner, at the Owner's option, may purchase and maintain insurance that will protect the Owner against loss of use of the Owner's property, or the inability to conduct normal operations, due to fire or other causes of loss. The Owner waives all rights of action against the Contractor and Architect for loss of use of the Owner's property, due to fire or other hazards however caused.

§11.5 Adjustment and Settlement of Insured Loss

§ 11.5.1 A loss insured under the property insurance required by the Agreement shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insureds, as their interests may appear, subject to requirements of any applicable mortgagee clause and of Section 11.5.2. The Owner shall pay the Architect and Contractor their just shares of insurance proceeds received by the Owner, and by appropriate agreements the Architect and Contractor shall make payments to their consultants and Subcontractors in similar manner.

§ 11.5.2 Prior to settlement of an insured loss, the Owner shall notify the Contractor of the terms of the proposed settlement as well as the proposed allocation of the insurance proceeds. The Contractor shall have 14 days from receipt of notice to object to the proposed settlement or allocation of the proceeds. If the Contractor does not object, the Owner shall settle the loss and the Contractor shall be bound by the settlement and allocation. Upon receipt, the Owner shall deposit the insurance proceeds in a separate account and make the appropriate distributions. Thereafter, if no other agreement is made or the Owner does not terminate the Contract for convenience, the Owner and Contractor shall execute a Change Order for reconstruction of the damaged or destroyed Work in the amount allocated for that purpose. If the Contractor timely objects to either the terms of the proposed settlement or the allocation of the proceeds, the Owner may proceed to settle the insured loss, and any dispute between the Owner and Contractor arising out of the settlement or allocation of the proceeds shall be resolved pursuant to Article 15. Pending resolution of any dispute, the Owner may issue a Construction Change Directive for the reconstruction of the damaged or destroyed Work.

ARTICLE 12 UNCOVERING AND CORRECTION OF WORK

§ 12.1 Uncovering of Work

§ 12.1.1 If a portion of the Work is covered contrary to the Architect's request or to requirements specifically expressed in the Contract Documents, it must, if requested in writing by the Architect, be uncovered for the Architect's examination and be replaced at the Contractor's expense without change in the Contract Time.

§ 12.1.2 If a portion of the Work has been covered that the Architect has not specifically requested to examine prior to its being covered, the Architect may request to see such Work and it shall be uncovered by the Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an equitable adjustment to the Contract Sum and Contract Time as may be appropriate. If such Work is not in accordance with the Contract Documents, the costs of uncovering the Work, and the cost of correction, shall be at the Contractor's expense.

§ 12.2 Correction of Work

§ 12.2.1 Before Substantial Completion

The Contractor shall promptly correct Work rejected by the Architect or failing to conform to the requirements of the Contract Documents, discovered before Substantial Completion and whether or not fabricated, installed or completed. Costs of correcting such rejected Work, including additional testing and inspections, the cost of uncovering and replacement, and compensation for the Architect's services and expenses made necessary thereby, shall be at the Contractor's expense.

§ 12.2.2 After Substantial Completion

§ 12.2.2.1 In addition to the Contractor's obligations under Section 3.5, if, within one year after the date of Substantial Completion of the Work or designated portion thereof or after the date for commencement of warranties established under Section 9.9.1, or by terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of notice from the Owner to do so, unless the Owner has previously given the Contractor a written acceptance of such condition. The Owner shall give such notice promptly after discovery of the condition. During the one-year period for correction of Work, if the Owner fails to notify the Contractor and give the Contractor an opportunity to make the correction, the Owner waives the rights to require correction by the Contractor and to make a claim for breach of warranty. If the Contractor fails to correct nonconforming Work within a reasonable time during that period after receipt of notice from the Owner or Architect, the Owner may correct it in accordance with Section 2.5.

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§ 12.2.2.2 The one-year period for correction of Work shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual completion of that portion of the Work.

§ 12.2.2.3 The one-year period for correction of Work shall not be extended by corrective Work performed by the Contractor pursuant to this Section 12.2.

§ 12.2.3 The Contractor shall remove from the site portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the Contractor nor accepted by the Owner.

§ 12.2.4 The Contractor shall bear the cost of correcting destroyed or damaged construction of the Owner or Separate Contractors, whether completed or partially completed, caused by the Contractor's correction or removal of Work that is not in accordance with the requirements of the Contract Documents.

§ 12.2.5 Nothing contained in this Section 12.2 shall be construed to establish a period of limitation with respect to other obligations the Contractor has under the Contract Documents. Establishment of the one-year period for correction of Work as described in Section 12.2.2 relates only to the specific obligation of the Contractor to correct the Work, and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced, nor to the time within which proceedings may be commenced to establish the Contractor's liability with respect to the Contractor's obligations other than specifically to correct the Work.

§ 12.3 Acceptance of Nonconforming Work

If the Owner prefers to accept Work that is not in accordance with the requirements of the Contract Documents, the Owner may do so instead of requiring its removal and correction, in which case the Contract Sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 13 MISCELLANEOUS PROVISIONS

§ 13.1 Governing Law

The Contract shall be governed by the law of the place where the Project is located, excluding that jurisdiction's choice of law rules. If the parties have selected arbitration as the method of binding dispute resolution, the Federal Arbitration Act shall govern Section 15.4.

§ 13.2 Successors and Assigns

§ 13.2.1 The Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to covenants, agreements, and obligations contained in the Contract Documents. Except as provided in Section 13.2.2, neither party to the Contract shall assign the Contract as a whole without written consent of the other. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations under the Contract.

§ 13.2.2 The Owner may, without consent of the Contractor, assign the Contract to a lender providing construction financing for the Project, if the lender assumes the Owner's rights and obligations under the Contract Documents. The Contractor shall execute all consents reasonably required to facilitate the assignment.

§ 13.3 Rights and Remedies

§ 13.3.1 Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

§ 13.3.2 No action or failure to act by the Owner, Architect, or Contractor shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed upon in writing.

§ 13.4 Tests and Inspections

§ 13.4.1 Tests, inspections, and approvals of portions of the Work shall be made as required by the Contract Documents and by applicable laws, statutes, ordinances, codes, rules, and regulations or lawful orders of public authorities. Unless otherwise provided, the Contractor shall make arrangements for such tests, inspections, and

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approvals with an independent testing laboratory or entity acceptable to the Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. The Contractor shall give the Architect timely notice of when and where tests and inspections are to be made so that the Architect may be present for such procedures. The Owner shall bear costs of tests, inspections, or approvals that do not become requirements until after bids are received or negotiations concluded. The Owner shall directly arrange and pay for tests, inspections, or approvals where building codes or applicable laws or regulations so require.

§ 13.4.2 If the Architect, Owner, or public authorities having jurisdiction determine that portions of the Work require additional testing, inspection, or approval not included under Section 13.4.1, the Architect will, upon written authorization from the Owner, instruct the Contractor to make arrangements for such additional testing, inspection, or approval, by an entity acceptable to the Owner, and the Contractor shall give timely notice to the Architect of when and where tests and inspections are to be made so that the Architect may be present for such procedures. Such costs, except as provided in Section 13.4.3, shall be at the Owner's expense.

§ 13.4.3 If procedures for testing, inspection, or approval under Sections 13.4.1 and 13.4.2 reveal failure of the portions of the Work to comply with requirements established by the Contract Documents, all costs made necessary by such failure, including those of repeated procedures and compensation for the Architect's services and expenses, shall be at the Contractor's expense.

§ 13.4.4 Required certificates of testing, inspection, or approval shall, unless otherwise required by the Contract Documents, be secured by the Contractor and promptly delivered to the Architect.

§ 13.4.5 If the Architect is to observe tests, inspections, or approvals required by the Contract Documents, the Architect will do so promptly and, where practicable, at the normal place of testing.

§ 13.4.6 Tests or inspections conducted pursuant to the Contract Documents shall be made promptly to avoid unreasonable delay in the Work.

§ 13.5 Interest

Payments due and unpaid under the Contract Documents shall bear interest from the date payment is due at the rate the parties agree upon in writing or, in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

ARTICLE 14 TERMINATION OR SUSPENSION OF THE CONTRACT

§ 14.1 Termination by the Contractor

§ 14.1.1 The Contractor may terminate the Contract if the Work is stopped for a period of 30 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, for any of the following reasons:

- **.1** Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped;
- **.2** An act of government, such as a declaration of national emergency, that requires all Work to be stopped;
- **.3** Because the Architect has not issued a Certificate for Payment and has not notified the Contractor of the reason for withholding certification as provided in Section 9.4.1, or because the Owner has not made payment on a Certificate for Payment within the time stated in the Contract Documents; or
- **.4** The Owner has failed to furnish to the Contractor reasonable evidence as required by Section 2.2.

§ 14.1.2 The Contractor may terminate the Contract if, through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, their agents or employees, or any other persons or entities performing portions of the Work, repeated suspensions, delays, or interruptions of the entire Work by the Owner as described in Section 14.3, constitute in the aggregate more than 100 percent of the total number of days scheduled for completion, or 120 days in any 365-day period, whichever is less.

§ 14.1.3 If one of the reasons described in Section 14.1.1 or 14.1.2 exists, the Contractor may, upon seven days' notice to the Owner and Architect, terminate the Contract and recover from the Owner payment for Work executed, as well as reasonable overhead and profit on Work not executed, and costs incurred by reason of such termination.

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§ 14.1.4 If the Work is stopped for a period of 60 consecutive days through no act or fault of the Contractor, a Subcontractor, a Sub-subcontractor, or their agents or employees or any other persons or entities performing portions of the Work because the Owner has repeatedly failed to fulfill the Owner's obligations under the Contract Documents with respect to matters important to the progress of the Work, the Contractor may, upon seven additional days' notice to the Owner and the Architect, terminate the Contract and recover from the Owner as provided in Section 14.1.3.

§ 14.2 Termination by the Owner for Cause

§ 14.2.1 The Owner may terminate the Contract if the Contractor

- **.1** repeatedly refuses or fails to supply enough properly skilled workers or proper materials;
- **.2** fails to make payment to Subcontractors or suppliers in accordance with the respective agreements between the Contractor and the Subcontractors or suppliers;
- **.3** repeatedly disregards applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of a public authority; or
- **.4** otherwise is guilty of substantial breach of a provision of the Contract Documents.

§ 14.2.2 When any of the reasons described in Section 14.2.1 exist, and upon certification by the Architect that sufficient cause exists to justify such action, the Owner may, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety, if any, seven days' notice, terminate employment of the Contractor and may, subject to any prior rights of the surety:

- **.1** Exclude the Contractor from the site and take possession of all materials, equipment, tools, and construction equipment and machinery thereon owned by the Contractor;
- **.2** Accept assignment of subcontracts pursuant to Section 5.4; and
- **.3** Finish the Work by whatever reasonable method the Owner may deem expedient. Upon written request of the Contractor, the Owner shall furnish to the Contractor a detailed accounting of the costs incurred by the Owner in finishing the Work.

§ 14.2.3 When the Owner terminates the Contract for one of the reasons stated in Section 14.2.1, the Contractor shall not be entitled to receive further payment until the Work is finished.

§ 14.2.4 If the unpaid balance of the Contract Sum exceeds costs of finishing the Work, including compensation for the Architect's services and expenses made necessary thereby, and other damages incurred by the Owner and not expressly waived, such excess shall be paid to the Contractor. If such costs and damages exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be certified by the Initial Decision Maker, upon application, and this obligation for payment shall survive termination of the Contract.

§ 14.3 Suspension by the Owner for Convenience

§ 14.3.1 The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Work, in whole or in part for such period of time as the Owner may determine.

§ 14.3.2 The Contract Sum and Contract Time shall be adjusted for increases in the cost and time caused by suspension, delay, or interruption under Section 14.3.1. Adjustment of the Contract Sum shall include profit. No adjustment shall be made to the extent

- **.1** that performance is, was, or would have been, so suspended, delayed, or interrupted, by another cause for which the Contractor is responsible; or
- **.2** that an equitable adjustment is made or denied under another provision of the Contract.

§ 14.4 Termination by the Owner for Convenience

§ 14.4.1 The Owner may, at any time, terminate the Contract for the Owner's convenience and without cause.

§ 14.4.2 Upon receipt of notice from the Owner of such termination for the Owner's convenience, the Contractor shall

- **.1** cease operations as directed by the Owner in the notice;
- **.2** take actions necessary, or that the Owner may direct, for the protection and preservation of the Work; and
- **.3** except for Work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.

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§ 14.4.3 In case of such termination for the Owner's convenience, the Owner shall pay the Contractor for Work properly executed; costs incurred by reason of the termination, including costs attributable to termination of Subcontracts; and the termination fee, if any, set forth in the Agreement.

ARTICLE 15 CLAIMS AND DISPUTES

§ 15.1 Claims

§ 15.1.1 Definition

A Claim is a demand or assertion by one of the parties seeking, as a matter of right, payment of money, a change in the Contract Time, or other relief with respect to the terms of the Contract. The term "Claim" also includes other disputes and matters in question between the Owner and Contractor arising out of or relating to the Contract. The responsibility to substantiate Claims shall rest with the party making the Claim. This Section 15.1.1 does not require the Owner to file a Claim in order to impose liquidated damages in accordance with the Contract Documents.

§ 15.1.2 Time Limits on Claims

The Owner and Contractor shall commence all Claims and causes of action against the other and arising out of or related to the Contract, whether in contract, tort, breach of warranty or otherwise, in accordance with the requirements of the binding dispute resolution method selected in the Agreement and within the period specified by applicable law, but in any case not more than 10 years after the date of Substantial Completion of the Work. The Owner and Contractor waive all Claims and causes of action not commenced in accordance with this Section 15.1.2.

§ 15.1.3 Notice of Claims

§ 15.1.3.1 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered prior to expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party and to the Initial Decision Maker with a copy sent to the Architect, if the Architect is not serving as the Initial Decision Maker. Claims by either party under this Section 15.1.3.1 shall be initiated within 21 days after occurrence of the event giving rise to such Claim or within 21 days after the claimant first recognizes the condition giving rise to the Claim, whichever is later.

§ 15.1.3.2 Claims by either the Owner or Contractor, where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2, shall be initiated by notice to the other party. In such event, no decision by the Initial Decision Maker is required.

§ 15.1.4 Continuing Contract Performance

§ 15.1.4.1 Pending final resolution of a Claim, except as otherwise agreed in writing or as provided in Section 9.7 and Article 14, the Contractor shall proceed diligently with performance of the Contract and the Owner shall continue to make payments in accordance with the Contract Documents.

§ 15.1.4.2 The Contract Sum and Contract Time shall be adjusted in accordance with the Initial Decision Maker's decision, subject to the right of either party to proceed in accordance with this Article 15. The Architect will issue Certificates for Payment in accordance with the decision of the Initial Decision Maker.

§ 15.1.5 Claims for Additional Cost

If the Contractor wishes to make a Claim for an increase in the Contract Sum, notice as provided in Section 15.1.3 shall be given before proceeding to execute the portion of the Work that is the subject of the Claim. Prior notice is not required for Claims relating to an emergency endangering life or property arising under Section 10.4.

§ 15.1.6 Claims for Additional Time

§ 15.1.6.1 If the Contractor wishes to make a Claim for an increase in the Contract Time, notice as provided in Section 15.1.3 shall be given. The Contractor's Claim shall include an estimate of cost and of probable effect of delay on progress of the Work. In the case of a continuing delay, only one Claim is necessary.

§ 15.1.6.2 If adverse weather conditions are the basis for a Claim for additional time, such Claim shall be documented by data substantiating that weather conditions were abnormal for the period of time, could not have been reasonably anticipated, and had an adverse effect on the scheduled construction.

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§ 15.1.7 Waiver of Claims for Consequential Damages

The Contractor and Owner waive Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes

.1 damages incurred by the Owner for rental expenses, for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and

.2 damages incurred by the Contractor for principal office expenses including the compensation of personnel stationed there, for losses of financing, business and reputation, and for loss of profit, except anticipated profit arising directly from the Work.

This mutual waiver is applicable, without limitation, to all consequential damages due to either party's termination in accordance with Article 14. Nothing contained in this Section 15.1.7 shall be deemed to preclude assessment of liquidated damages, when applicable, in accordance with the requirements of the Contract Documents.

§ 15.2 Initial Decision

§ 15.2.1 Claims, excluding those where the condition giving rise to the Claim is first discovered after expiration of the period for correction of the Work set forth in Section 12.2.2 or arising under Sections 10.3, 10.4, and 11.5, shall be referred to the Initial Decision Maker for initial decision. The Architect will serve as the Initial Decision Maker, unless otherwise indicated in the Agreement. Except for those Claims excluded by this Section 15.2.1, an initial decision shall be required as a condition precedent to mediation of any Claim. If an initial decision has not been rendered within 30 days after the Claim has been referred to the Initial Decision Maker, the party asserting the Claim may demand mediation and binding dispute resolution without a decision having been rendered. Unless the Initial Decision Maker and all affected parties agree, the Initial Decision Maker will not decide disputes between the Contractor and persons or entities other than the Owner.

§ 15.2.2 The Initial Decision Maker will review Claims and within ten days of the receipt of a Claim take one or more of the following actions: (1) request additional supporting data from the claimant or a response with supporting data from the other party, (2) reject the Claim in whole or in part, (3) approve the Claim, (4) suggest a compromise, or (5) advise the parties that the Initial Decision Maker is unable to resolve the Claim if the Initial Decision Maker lacks sufficient information to evaluate the merits of the Claim or if the Initial Decision Maker concludes that, in the Initial Decision Maker's sole discretion, it would be inappropriate for the Initial Decision Maker to resolve the Claim.

§ 15.2.3 In evaluating Claims, the Initial Decision Maker may, but shall not be obligated to, consult with or seek information from either party or from persons with special knowledge or expertise who may assist the Initial Decision Maker in rendering a decision. The Initial Decision Maker may request the Owner to authorize retention of such persons at the Owner's expense.

§ 15.2.4 If the Initial Decision Maker requests a party to provide a response to a Claim or to furnish additional supporting data, such party shall respond, within ten days after receipt of the request, and shall either (1) provide a response on the requested supporting data, (2) advise the Initial Decision Maker when the response or supporting data will be furnished, or (3) advise the Initial Decision Maker that no supporting data will be furnished. Upon receipt of the response or supporting data, if any, the Initial Decision Maker will either reject or approve the Claim in whole or in part.

§ 15.2.5 The Initial Decision Maker will render an initial decision approving or rejecting the Claim, or indicating that the Initial Decision Maker is unable to resolve the Claim. This initial decision shall (1) be in writing; (2) state the reasons therefor; and (3) notify the parties and the Architect, if the Architect is not serving as the Initial Decision Maker, of any change in the Contract Sum or Contract Time or both. The initial decision shall be final and binding on the parties but subject to mediation and, if the parties fail to resolve their dispute through mediation, to binding dispute resolution.

§ 15.2.6 Either party may file for mediation of an initial decision at any time, subject to the terms of Section 15.2.6.1.

§ 15.2.6.1 Either party may, within 30 days from the date of receipt of an initial decision, demand in writing that the other party file for mediation. If such a demand is made and the party receiving the demand fails to file for mediation within 30 days after receipt thereof, then both parties waive their rights to mediate or pursue binding dispute resolution proceedings with respect to the initial decision.

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§ 15.2.7 In the event of a Claim against the Contractor, the Owner may, but is not obligated to, notify the surety, if any, of the nature and amount of the Claim. If the Claim relates to a possibility of a Contractor's default, the Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

§ 15.2.8 If a Claim relates to or is the subject of a mechanic's lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice or filing deadlines.

§ 15.3 Mediation

§ 15.3.1 Claims, disputes, or other matters in controversy arising out of or related to the Contract, except those waived as provided for in Sections 9.10.4, 9.10.5, and 15.1.7, shall be subject to mediation as a condition precedent to binding dispute resolution.

§ 15.3.2 The parties shall endeavor to resolve their Claims by mediation which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect on the date of the Agreement. A request for mediation shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the mediation. The request may be made concurrently with the filing of binding dispute resolution proceedings but, in such event, mediation shall proceed in advance of binding dispute resolution proceedings, which shall be stayed pending mediation for a period of 60 days from the date of filing, unless stayed for a longer period by agreement of the parties or court order. If an arbitration is stayed pursuant to this Section 15.3.2, the parties may nonetheless proceed to the selection of the arbitrator(s) and agree upon a schedule for later proceedings.

§ 15.3.3 Either party may, within 30 days from the date that mediation has been concluded without resolution of the dispute or 60 days after mediation has been demanded without resolution of the dispute, demand in writing that the other party file for binding dispute resolution. If such a demand is made and the party receiving the demand fails to file for binding dispute resolution within 60 days after receipt thereof, then both parties waive their rights to binding dispute resolution proceedings with respect to the initial decision.

§ 15.3.4 The parties shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction thereof.

§ 15.4 Arbitration

§ 15.4.1 If the parties have selected arbitration as the method for binding dispute resolution in the Agreement, any Claim subject to, but not resolved by, mediation shall be subject to arbitration which, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules in effect on the date of the Agreement. The Arbitration shall be conducted in the place where the Project is located, unless another location is mutually agreed upon. A demand for arbitration shall be made in writing, delivered to the other party to the Contract, and filed with the person or entity administering the arbitration. The party filing a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded.

§ 15.4.1.1 A demand for arbitration shall be made no earlier than concurrently with the filing of a request for mediation, but in no event shall it be made after the date when the institution of legal or equitable proceedings based on the Claim would be barred by the applicable statute of limitations. For statute of limitations purposes, receipt of a written demand for arbitration by the person or entity administering the arbitration shall constitute the institution of legal or equitable proceedings based on the Claim.

§ 15.4.2 The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

§ 15.4.3 The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Agreement, shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

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§ 15.4.4 Consolidation or Joinder

§ 15.4.4.1 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may consolidate an arbitration conducted under this Agreement with any other arbitration to which it is a party provided that (1) the arbitration agreement governing the other arbitration permits consolidation, (2) the arbitrations to be consolidated substantially involve common questions of law or fact, and (3) the arbitrations employ materially similar procedural rules and methods for selecting arbitrator(s).

§ 15.4.4.2 Subject to the rules of the American Arbitration Association or other applicable arbitration rules, either party may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration, provided that the party sought to be joined consents in writing to such joinder. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of any claim, dispute or other matter in question not described in the written consent.

§ 15.4.4.3 The Owner and Contractor grant to any person or entity made a party to an arbitration conducted under this Section 15.4, whether by joinder or consolidation, the same rights of joinder and consolidation as those of the Owner and Contractor under this Agreement.

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SECTION 011010
PROJECT SUMMARY - BID PACKAGES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 INSURANCE, DESIGNATED PURCHASER

A. Owner and Contractor shall purchase and maintain insurances as indicated by Sections 005000 Agreement and 007000 General Conditions.

1.03 SUMMARY

A. Section Includes:
   1. Project Information
   2. Work covered by Contract Documents
   3. Sequence of Work
   4. Phased Construction
   5. Access to site.
   6. Coordination with occupants
   7. Work restrictions
   8. Specification and drawing conventions.

1.04 PROJECT INFORMATION

A. Project Identification:
   1. WEH: West High School Building Renovation & Site Improvements (PN542501B)
   2. WEM: West Middle School Building Renovation (PN432502B)
   3. ECC: ECC West Building Renovation and Site Improvements (PN652501B)

B. Project Location:
   1. WEH: 14653 Clayton Rd., Ballwin, MO 63011
   2. WEM: 2312 Baxter Road, Chesterfield, MO 63017
   3. ECC: 14605 Clayton Rd., Ballwin, MO 63011

C. Owner:
   1. Parkway Schools
      363 N. Woods Mill Road,
      Chesterfield, MO 63017
      Owner's Representative: John Blanton, Manager Planning & Engineering

D. Construction Manager:
   1. Poettker Construction Company
      400 S. Germantown Road
      Breese, IL, 62230
      Construction Manager Representative: Ben Evelsizer, PreConstruction Manager

E. Architect:
   1. Bond Architects
      222 South Central Ave, Suite 501
      St. Louis, MO 63105
      Architect Representative: Erik Wilson

F. Project Description:

1. WEH – Multi-phase interior renovations including locker rooms, pool areas, and restrooms. Exterior door and window replacements, gym floor and bleacher replacements, and site improvements including retaining wall repairs/replacement and drainage corrections.
2. WEM – Building renovations including exterior ductwork replacement, ceiling replacements, and building-wide fire sprinkler installation.
3. ECC – Restroom renovations, select finish and fixture replacements, carpet replacement, installation of District-provided playground equipment, and site improvements including paving and drainage corrections.

1.05 DESCRIPTION OF WORK

A. The contract work is to be performed in strict accordance with the drawings and specifications herein enumerated.

B. This project consists of work at three separate campus locations. Unless specifically noted otherwise, the scope of work described within each bid package applies to all three campuses where that trade's work is required. Each bid package will be awarded to a single contractor responsible for performing the applicable work across all project locations. Contractors shall thoroughly review the contract documents for all three campuses and include all labor, materials, equipment, coordination, and incidental work necessary to provide a complete scope for each location where their work is indicated. Failure to account for work at any campus shall not relieve the awarded contractor of its obligation to provide a complete and fully functional installation in accordance with the contract documents.

C. Contractors shall plan and include separate mobilization, site logistics, protection, and coordination for each campus. Work at one campus shall not be assumed to satisfy requirements at another campus.

D. Bid Categories: The bidding documents consider the preparation of bids for specific portions of the work separated by bid package. Each bid package covers the contract work for various bid categories summarized below. The scope of work for each bid package includes furnishing any and all materials, equipment, and labor necessary, inherent, or incidental to fulfill the requirements summarized below and in accordance with the drawings and specifications described herein. A bid proposal may be submitted for any one bid package referenced herein.

1.06 GENERAL PROVISIONS ALL BID CATEGORIES

A. The following conditions are hereby incorporated into each and every bid package:
1. Each Contractor shall review all drawings to verify and confirm work involved within each Bid Package. Drawings are to be bid on and used as a whole; base bid should not rely on select drawings. It is the responsibility of each Contractor to become familiar with all Bid Packages and all Project Documents included in the project and identify any discrepancies or misunderstandings that may exist prior to issuance of respective bids.
2. Each Contractor shall be knowledgeable of and responsible for all project documents and the effect and relationship each Bid Package scope of work has on the other Bid Packages to ensure proper, timely and adequate interfaces.
3. Each contractor shall provide a bid security of ten percent (10%) of the bid as a Bid Bond or a Cashier’s Check. Any bid submitted without a bid security may not be accepted.
4. By submitting a Bid, each Contractor acknowledges and agrees that if an item or work is specified in any of the sections that pertain to the awarded Bid Package, it is included by that Contractor.
5. In each Bid Package the term “Provide” shall be defined as “Furnish and Install” unless specifically noted otherwise.

6. Each Contractor shall provide complete submittal packages for all materials installed under their bid package for review and approval by the Architect/Engineer before work begins. All deliverables shall be uploaded to Procore. Submittals shall be broken down into individual documents as specified in the submittal log found in Procore. Submittals shall be submitted within fourteen (14) business days from contract award unless otherwise agreed upon by the Construction Manager.
7. Each Contractor shall maintain complete as-built drawings of all systems installed under its awarded Bid Package/Contract. These drawings shall be kept in the construction trailer, updated weekly, and made available for inspection at any time..
8. Each Contractor shall provide necessary labor, materials, tools, supervision, taxes (excluding state sales tax), insurance, equipment, placing, hoisting, scaffolding, protection, storage containers, transportation, permits (if not provided by Owner), licenses, fees, inspections necessary to perform and complete the work specified in their awarded Bid Package.
9. All work is to be performed in accordance with current codes and standards, i.e. federal, state and local codes/ordinances.
10. Each Contractor shall provide a performance and payment bond. Bonds shall be obtained and presented to the Construction Manager prior to the execution of the Contract.
11. Each Contractor shall provide all layouts, including engineered layouts, required to complete their work under an awarded Bid Package. For site related work, each Contractor shall be responsible for layout and control work from established controls. If applicable, once the building pad is cut, building corners and a benchmark will be established by the Construction Manager.
12. Unless specified otherwise, the **Construction Manager** shall provide general use dumpsters/trash containers for general refuse generated as a result of the work of this project. All Contractors shall break down boxes/packaging materials prior to placing them in a dumpster or trash container.
13. Unless specified otherwise, the **Construction Manager** shall provide clean-up for awarded Bid Package(s), including broom clean areas, and dispose of debris daily into dumpsters and/or trash containers.
14. Each Trade Contractor shall, immediately prior to turnover and acceptance, remove all stickers, protective films, packaging materials, and other temporary or protective coverings from their installed work. This preparation is required to ensure all features of work are ready for final cleaning by the **General Trades Contractor**, unless otherwise noted herein.
15. Each Contractor shall be responsible for its own temporary power requirements to complete the work within their Bid Package, including generators if required. Any temporary electric requirements beyond that provided by standard wall outlet shall be provided by the Contractor requiring special temporary electric.
16. Any Work claimed by a given trade, or labor union, working under a Contractor's Bid Package shall be provided by that Contractor at no additional cost to the Owner or Construction Manager.
17. Each Bid Package is responsible for any overtime associated with work outside normal working hours required to maintain the construction schedule.
18. All work on site is to be performed safely in accordance with all OSHA standards and the Construction Manager's Published Safety Program. It is the responsibility of each Contractor to inform and educate all personnel working on site of the aforementioned requirements and ensure these policies are enforced each day.
19. Each Contractor shall furnish, install, maintain, and remove all OSHA required safety protection/railings at work under an awarded Bid Package as required.
20. All Contractors are responsible for providing adequate fall protection systems for crews working under each respective scope of work.

21. Each Contractor shall provide necessary labor for all work jurisdictionally claimed by building trades in its employ for the work integral to the Bid Categories.
22. **Construction Manager** shall provide temporary fencing only as indicated on the site logistics plan. All other fencing, temporary partitions, and barricades for segregation of work is to be provided by the contractors. If a site logistics plan is not provided, Contractor shall be responsible for all temporary fencing and barriers required.
23. Unless specified otherwise, **Construction Manager** shall provide grass cutting/maintenance of work areas within temporary fencing during the course of construction. Contractor shall be responsible for maintenance of new groundcover/landscaping as specified in the project documents.
24. Each Contractor responsible for delegated design shall provide professional liability insurance for its delegated-design scope of work.
25. Missouri Prevailing Wage: Each Contractor shall pay not less than the applicable Missouri prevailing wage rates and comply with the wage order incorporated into the bidding and Contract Documents.
26. Each Contractor shall assist in the coordination of testing (by Owner) required for its scope of work.
27. Each Contractor shall notify the Construction Manager of scheduled inspections during the construction process.
28. All construction traffic to utilize the parking/laydown areas as directed by the Construction Manager. No construction traffic is allowed on other parking lot areas, bus lanes, or alongside adjacent streets without approval by the Construction Manager.
29. Each Contractor shall provide all traffic control measures necessary to perform and protect work required for awarded Bid Package and to protect the public.
30. Contractor vehicle traffic is prohibited from 7:30 a.m. through 8:40 a.m. and from 2:30 p.m. through 3:30 p.m. during student drop-off/pick-up, unless otherwise approved by the Construction Manager.
31. Each Contractor shall be responsible for keeping surrounding streets clean from all mud and debris as a result from the work of their Bid Package.
32. Each Contractor is responsible for repairing any erosion and siltation control measures damaged by own equipment or manpower.
33. Each Contractor shall provide all wall, floor, and roof sleeves required for its Bid Package, including acoustic sealant at nonrated openings and waterproof seals at exterior wall and roof penetrations. Coordinate penetrations through foundations, floors, walls, and roofs with other Bid Package Contractors and provide opening sizes and sleeves required for its work.
34. Each Contractor shall provide penetration firestopping for all penetrations created by their bid package scope of work through rated walls and horizontal assemblies. Firestopping materials and installation shall comply with an approved UL-listed system appropriate for the specific conditions, regardless of plan details.
35. Each Contractor is responsible for safe delivery, staging, and protection for all material related to their awarded Bid Package. Each Contractor is responsible for loading and unloading all material as necessary, as well as lifting material and equipment onto the roof if necessary. Contractors are responsible to receive, unload and set any owner supplied material that is a part of the scope of work and bid package.
36. All material and equipment shown, noted, or otherwise indicated to be salvaged must be removed diligently and stored in a location for re-use as determined by Construction Manager.
37. Each Contractor performing excavation shall be responsible for the removal and hauling of excavated spoils to an on-site stockpile location as directed by the Construction Manager. If on-site stockpiling is not feasible, the Contractor shall be responsible for the off-site removal and proper disposal of all excavated materials.

38. By submitting a Bid, each Contractor acknowledges and agrees that if an item or work is specified in any of the sections that pertain to the awarded Bid Package, it is included by that Contractor.
39. Each Contractor shall use caution around existing and new finishes and must provide protection as needed to avoid property damage. Each Contractor shall correct any damages to existing/new finishes resulting from its work. All existing building features, structures, site features and landscaping not shown to be altered or removed, including but not limited to, pavement, drives, storm drainage, utilities, lawn areas, ground cover, etc. which are damaged or destroyed during the course of the work shall be repaired or replaced to the Owner's satisfaction without additional cost to the Owner, Architect, or Construction Manager. The awarded Bid Package Contractor shall be responsible for damages caused by its own forces or any subcontractor, sub-subcontractors, or suppliers.
40. Each Contractor shall attend Pre-installation meetings for critical activities associated with its scope of work. Reference Section 014000 - Quality Requirements for schedule of critical activities.

1.07 SPECIAL CONDITIONS

A. The Scope of Work in each bid package includes the following Special Conditions in addition to all work shown or described in the individual Bid Packages and shown in the Project Documents. The following items are to be included within the bid of each Contractor and will subsequently be considered part of all awarded Contracts.
   1. It is the responsibility of each Contractor bidding this project to become familiar with all Bid Packages included in this project as well as all the Project Documents.
   2. If the term "General Contractor" is found in the contract documents, it is understood that it refers to the individual Contractor performing the work of the specified Bid Package.
   3. It is understood by all bidders there is not a "General Contractor" overseeing the work of this project. As such, all Contractors shall coordinate with each other to ensure all building systems are coordinated properly.
   4. All work to be governed and controlled by applicable federal, state, and local requirements for air pollution and disturbance of surrounding areas.
   5. Occupied Facilities: Portions of the facilities adjacent to the Work may remain occupied. Separate and secure work areas; maintain safe access, egress, and active services; and control dust, noise, odors, and debris to protect occupants.
   6. Each Contractor shall locate existing utilities before starting ground-disturbance activities. Include all fees associated with utility-location services in the base bid of applicable Bid Packages.
   7. **Regulated Materials:** Before demolition, drilling, cutting, welding, or other disturbance of existing construction, review the incorporated campus hazardous-material documents, abatement drawings, and Project Information Packets. If unexpected suspect material is encountered, stop affected work, secure the area, and notify the Construction Manager and Owner for testing and direction. Only properly licensed abatement contractors may disturb regulated materials.
   8. If a Contractor finds it necessary to work over a weekend, notify the Construction Manager before 4:00 p.m. on the preceding Thursday.
   9. The storage of materials and equipment at the site shall be permitted only to the extent approved in advance by the Construction Manager in conformance with the limit established by any local ordinances and laws. If materials and equipment stored obstruct the progress of any portion of the work, they shall be removed or relocated by the respective Contractor as may be directed by the Construction Manager, without reimbursement of cost.
   10. Location for Contractor's items of plant and tools such as hoists, mixers, cutters, trailers, etc. shall be approved in advance by the Construction Manager.

11. Each Contractor shall be represented at the site by a competent full-time superintendent/foreman from the beginning of its work until acceptance unless otherwise instructed by the Construction Manager. On-site representative shall have the authority to make decisions and/or clarifications regarding the awarded scope of work.
12. The Architect/Owner and its representatives shall at all times have access to the work whether it is in preparation or in progress and each Contractor shall provide proper and safe facilities for such access and inspections or testing.
13. Each Contractor's allowable mark-up on change order work shall be limited to the following:
    a. Fifteen percent (15%) for work to be performed (labor and/or material) by contractor's own employees.
    b. Five percent (5%) for work to be performed by each subcontractor tier.
    c. One percent (1%) for increase in bond.
    d. One percent (1%) for increase in insurance.
    e. Total mark-ups shall not exceed twenty-five percent (25%), regardless of the number of tiers of subcontractors or sub-subcontractors involved.
    f. The above markups constitute full compensation for overhead and profit associated with the change order work. No additional markups or indirect costs shall be allowed.
    g. Overhead shall be deemed to include, but not be limited to, small tools and consumables, hand tools, pickup trucks and vehicles, fuel, travel and mileage, project management, estimating, accounting, clerical support, communications, computers and software, temporary office expenses, safety administration, and all other indirect costs associated with performing the Work.
14. Each Contractor performing site or excavation work shall review available subsurface information, if any, and field conditions applicable to its work. Protect survey controls and provide resetting of disturbed stakes and other surveying required for its work.
15. Temporary toilets will be provided by the Construction Manager.
16. Each awarded Bid Package Contractor shall attend weekly job progress and coordination meetings with the Construction Manager when Contractor is listed on the 4-week lookahead schedule. If a Contractor fails to attend the weekly jobsite meetings as scheduled, the Construction Manager at his/her discretion may back charge the Contractor $500.00 per each occurrence. Also, if a Contractor fails to attend the weekly meeting, they will waive all rights for future claims on items discussed and agreed to in the meeting.
17. Every effort shall be made to close excavations the same day they are opened. If an excavation cannot be backfilled the same day, the responsible Contractor shall protect occupants and the public with OSHA-compliant barricades and other measures required by the Construction Manager's Safety Program. Maintain protection throughout excavation and backfill and at the end of each workday; include the cost in the bid.
18. Out of sequence work requested by the Owner, Architect or Construction Manager to meet job occupancy requirement or to allow beneficial use of the building to the Owner is included in the respective Contractor's bid. No change orders will be issued for out of sequence work.
19. Each Contractor shall provide daily work tickets for approval by Construction Manager's on-site Superintendent for any authorized extra work. Failure to provide such tickets may result in the Contractor performing such work at its own risk for no additional cost.

20. Each Contractor will be required to provide adequate resources, including work overtime, at its own expense, in order to maintain the project schedule and milestones established herein. The Construction Manager's 4-week look ahead schedule shall be reviewed at weekly progress meetings, upon conclusion of each meeting, if no comments or corrections were requested by the Contractor, the Contractor accepts the durations on the 4-week schedule and shall meet these performance commitments. Contractors will also be required to work overtime, at their own expense, to make up for delays or failure to meet performance commitments.
21. Each Contractor shall coordinate the work of their Bid Package with the work of other Bid Packages so that all work is completed in accordance with the Project Documents and the project schedule is maintained. Rework that is required due to insufficient coordination with other contractors will be performed at the Contractor's expense.
22. All Contractors shall perform their work in such a manner, and in such a sequence that is most beneficial to the overall project. The Construction Manager may direct the sequence of the work at no additional cost.
23. Each Contractor shall provide Safety PPE for all workers on site under its Contract as required by OSHA and the Construction Manager's Safety Program.
24. Each Contractor shall provide bidding and construction documents for their own use and the use of any subcontractors. It is the responsibility of each Contractor to keep Construction Documents updated with current revisions, bidding and post bidding addendums, RFIs, ASIs, etc.
25. Each Contractor is responsible for all hoisting and unloading of their material and equipment. Contractors are responsible to receive, unload and set any owner supplied material that is a part of the scope of work and bid package.
26. Each Contractor shall provide cranes/hoists/elevators/manlifts/etc. as needed to complete their scope of work.
27. Notes included in each Bid Package description are for clarification and delineation of the scope of work. Bid Packages are to be considered all-inclusive of the specification sections referenced within each package. Work referenced but not explicitly called out is to be considered part of the respective Bid Packages as required to complete each Bid Package scope of work.
28. Drawing and/or technical specification sections indicated as relating to a specific Bid Package shall in no way limit contractual obligation of the respective Contractors to only those drawings and specification sections listed. Each awarded Bid Package Contract will be based upon and will incorporate the complete Project Documents.
29. Prior to interior concrete saw cutting, contractors shall provide their own floor scan to ensure existing underground utilities are not damaged. Any damage that takes place will be the responsibility of the contractor who damaged the work.
30. Each Contractor shall ensure that all subgrade meets proper compaction in accordance with project requirements prior to the placement of any finish surface, regardless of whether special inspections are specified or performed.

1.08 SCHEDULE OF ALTERNATES

A. GENERAL

1. Each Bid Package Contractor whose Bid Package lists an alternate shall state a separate add or deduct price on the Bid Form for each alternate listed for that Bid Package. Each alternate price shall include all labor, materials, equipment, supervision, coordination, cutting and patching, and modifications to adjacent work required for a complete installation.
2. The Base Bid shall include all Base Bid work and exclude alternate work. The Owner may accept or reject alternates in any combination at award in accordance with Section 012300 and the Bid Form. An accepted alternate becomes part of the respective Bid Package scope and is subject to all provisions of this Section. Contractors shall review all drawings because alternate work may be shown on sheets of other disciplines.

B. **WEH ALTERNATE NO. 1 – POOL GUTTER TILE**

1. Base Bid: Provide the specified Ramuc high-build epoxy coating (RF-6/RF-7) at the pool gutter, including required surface preparation, patching and repair of the gutter substrate, markings, and transitions, complete as indicated.
2. Alternate: In lieu of the Base Bid Ramuc coating at the pool gutter, provide the complete tile-and-grout finish indicated, including tile removal and substrate preparation, setting materials, grout, trims and transitions, depth and distance markings, removal, cleaning and reinstallation of existing gutter drain covers and fasteners, and coordination with adjacent finishes.
3. Bid Packages Affected: Bid Package 09D – Resinous Flooring (omit the Base Bid Ramuc coating at the pool gutter where replaced by tile) and Bid Package 09B – Flooring (pool-gutter tile removal, substrate preparation, tile, grout, trims, and accessories).
4. For Reference Only: WEH Drawings 0.0 (Alternate Scope Notes), A2.1B, A10.12, and A13.1 (RF-6/RF-7, T-2, TS-1, TS-4); Section 093000.

C. **WEH ALTERNATE NO. 2 – AREA E MULTIPURPOSE ROOM 2700 RENOVATION**

1. Base Bid: Perform no renovation or hazardous-material abatement work in Area E Multipurpose Room 2700; existing construction and finishes shall remain and be protected.
2. Alternate: Provide all work shown or specified for Area E and designated Alternate across all disciplines, including asbestos abatement of existing floor tile and mastic under full negative-pressure containment; selective demolition of existing VCT, wall base, and wall pads; substrate preparation; RF-5 resilient athletic flooring, WB-1 wall base, and transitions; WP-1 wall pads; painting of walls, exposed roof deck, structure, ductwork, piping, and conduits; cleaning existing mechanical grates; and protection of existing MEP and fire-suppression components during the work. No new plumbing, electrical, technology, or fire-alarm work is shown in Room 2700 unless subsequently added by the Project Documents.
3. Bid Packages Affected: Bid Package 01A – General Trades; Bid Package 02a – Demolition & Abatement; Bid Package 09B – Flooring; Bid Package 21a – Fire Suppression, limited to protection of sprinkler components during painting; and Bid Package 23a – Mechanical, limited to cleaning existing mechanical grates and coordination/protection of existing mechanical components.
4. For Reference Only: WEH Drawings AD2.3A, AD4.2A, A2.2A, A4.2A, A10.14, A10.15, A13.1, A14.2A, and MD2.2; WEH Hazardous Materials Information Packet, Area E; Section 096566.

D. **WEM AND ECC**

1. No Alternates.

1.09 BID PACKAGE 01A – GENERAL TRADES

A. **ALTERNATES**

1. Alternates associated with this Bid Package include the following:
   a. WEH Alternate No. 2 – Area E Multipurpose Room 2700 Renovation – clean existing mechanical grates to like-new condition, painting and preparation of walls, exposed roof deck, structure, ductwork, piping, and conduits; new WP-1 wall pads; protection and coordination of adjacent work

B. **ALLOWANCES**

1. Allowances associated with this Bid Package include the following:
   a. None at this time

C. **SPECIFICATIONS**

1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
   a. 030100 – Maintenance of Concrete

b. 031000 – Concrete Forming and Accessories
c. 032000 – Concrete Reinforcing
d. 033000 – Cast-in-Place Concrete
e. 055213 – Pipe and Tube Railings
f. 060573 – Wood Treatment
g. 061000 – Rough Carpentry
h. 062000 – Finish Carpentry
i. 064100 – Architectural Wood Casework
j. 066100 – Cast Polymer Fabrications
k. 072100 – Thermal Insulation
l. 075200 – Modified Bituminous Membrane Roofing
m. 075600 – Fluid-Applied Roofing
n. 076200 – Sheet Metal Flashing and Trim
o. 077100 – Roof Specialties
p. 077200 – Roof Accessories
q. 078400 – Firestopping
r. 079200 – Joint Sealants
s. 079513 – Expansion Joint Cover Assemblies
t. 080671 – Door Hardware Schedule
u. 081113 – Hollow Metal Doors and Frames
v. 081213 – Hollow Metal Frames
w. 081416 – Flush Wood Doors
x. 081613 – Fiberglass Doors
y. 083100 – Access Doors and Panels
z. 084313 – Aluminum-Framed Storefronts
aa. 085113 – Aluminum Windows
bb. 087100 – Door Hardware
cc. 088000 – Glazing
dd. 088300 – Mirrors
ee. 096466 – Wood Athletic Flooring
ff. 098430 – Sound-Absorbing Wall and Ceiling Units
gg. 099113 – Exterior Painting
hh. 099123 – Interior Painting
ii. 099600 - High Performance Coatings
jj. 101400 – Signage
kk. 102113.19 – Plastic Toilet Compartments
ll. 102213 – Wire Mesh Partitions
mm. 102800 – Toilet, Bath, and Laundry Accessories
nn. 104400 – Fire Protection Specialties
oo. 105113 – Metal Lockers
pp. 105613 – Metal Storage Shelving
qq. 105617 – Wall Mounted Standards and Shelving
rr. 115214 – Instructional Technology Equipment
ss. 116623 – Gymnasium Equipment
tt. 126100 - Fixed Audience Seating
uu. 126613 – Telescoping Bleachers
vv. 142400 – Hydraulic Elevators
ww. 323113 – Chain Link Fences and Gates
xx. 323223 – Segmental Retaining Walls
yy. 329223 – Sodding

D. **SCOPE OF WORK GENERAL**

1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.
10. At WEH, the **Construction Manager** will provide and install scaffolding for all trades to access overhead work above the pool basin. Contractors shall provide lifts for access around the pool deck as required for their work.

E. **GENERAL TRADES**

1. This contractor shall provide professional final cleaning at completion of the project. Work includes but is not limited to cleaning of the floors, wiping down the walls and casework, toilet fixtures, and interior and exterior of windows. Final cleaning shall also include wipe cleaning of the interior surfaces of casework/cabinets, lockers, food service equipment, etc.
2. This Contractor shall provide all temporary fire extinguishers and stands for the project in accordance with OSHA guidelines during construction.
3. Construction Manager shall provide general use dumpsters for all trades throughout each phase of construction, ensuring adequate capacity, timely removal, and replacement to maintain a clean and safe worksite. Where specified, other trades may be responsible for providing their own dumpsters for the haul-off and disposal of waste generated by their work.
4. Construction Manager shall be responsible for daily clean-up of all work areas to maintain a clear, safe, and organized job site. This includes the removal and proper disposal of all debris, waste materials, and unused construction materials at the end of each workday. Walkways, access points, and work areas shall remain free from obstructions, tripping hazards, and hazardous conditions. The Contractor shall comply with all applicable safety regulations and maintain a clean and orderly site to minimize risks to workers and other personnel.

5. This Contractor shall furnish, install, and maintain temporary partitions, dust barriers, and other necessary protective measures to segregate work areas from occupied spaces. These barriers shall effectively prevent the migration of dust, dirt, and debris into occupied areas and ensure a safe and secure separation between construction activities and building occupants. Temporary partitions and barriers shall be maintained in good condition for the duration of the work and removed upon completion, with all affected areas cleaned to pre-construction conditions.
6. This Contractor shall provide temporary, secure opening enclosures at the building exterior until final work is completed to maintain building security as required.
7. This Contractor shall provide floor protection for designated access pathways, including corridors and pathways across open spaces, to maintain trade access following installation through final cleaning. Access pathways shall be of sufficient width to accommodate simultaneous two-way (bi-directional) pedestrian traffic through active construction work areas and of adequate durability to protect finished surfaces from damage caused by foot traffic, rolling carts, scaffolding, and ladders, without impeding workflow or compromising safety.
8. This Contractor shall provide full coverage floor protection at all resinous flooring areas. Floor protection shall be of adequate durability to protect finished surfaces from damage caused by foot traffic, rolling carts, scaffolding, and ladders, without impeding workflow or compromising safety.
9. This Contractor shall provide floor protection per Code Plans at ECC Restrooms.
10. This Contractor shall clean existing railings to remain where indicated.
11. WEH Alternate No. 2 – Area E Multipurpose Room 2700 Renovation – clean existing mechanical grates to like-new condition and coordinate and protect existing ductwork and air devices that remain during painting.

F. **GENERAL CONCRETE**
1. This Contractor shall provide, and maintain, a lined container to be utilized as concrete washout during concrete placement operations. Contractor shall provide adequate haul-off/dumping of concrete washout to prevent overflow/spills.
2. Investigations into non-conforming materials will be conducted at the expense of the Prime Contractor responsible for that scope of work. The Prime Contractor must be responsible for the investigation and must make written recommendations to adequately mitigate or remediate the non-conforming material. The owner, owner's representative, and/or construction manager may accept, accept with reduced payment, require mitigation, or require removal and replacement of non-conforming material at no additional cost the owner or construction manager.
3. When forming around columns, the block out must be centered around the column. Any corner of formwork around columns must be aligned straight with adjacent columns formwork corners.
4. This Contractor shall coordinate concrete placement with the Owner's special inspection and testing agency, provide required notice and access, and shall not conceal work before required inspections are completed.
5. Where the control joint layout is not shown on the drawings, the concrete contractor must submit a control joint layout plan for all flatwork for approval prior to concrete placement. The control joint layout must attempt to address any potential re-entrant corners. Where this is not possible, re-entrant reinforcement must be supported and secure in the top half of the slab.
6. Control joints that align with the corners of formwork for diamond block outs for columns must terminate at the exact corner of the formwork.
7. For control joints, once the direction of sawing has begun for a particular control joint, that direction must be maintained for the entire width of the flatwork. Attempting to align saw cuts from opposite ends within a pour, is not permitted.

8. Control joints must be extended the entire length of the flatwork. Where a walk behind saw cannot reach the entire length due to an obstruction (i.e. at a wall), the joint must be extended with a grinder of similar blade width the remainder of the way.
9. All steel reinforcement must be in place and secure prior to concrete placement. Wet-setting or pulling up reinforcement into position will not be permitted.
10. Supports for wire mesh must be spaced at a maximum distance of [3] feet. Closer spacing of supports may be necessary based on means and method of concrete placement and/or finishing.
11. Supports for steel reinforcement must be spaced at a maximum spacing of [4] feet.
12. Damaged wire mesh, steel reinforcement, and/or reinforcement supports are not permitted within the concrete.
13. Reinforcement for re-entrant corners must be supported and secure in the top half of any concrete flatwork
14. Applying water or water-based products on the surface of fresh concrete is not permitted as a finishing aid. Only products designed as a finishing aid are acceptable to assist in finishing.
15. Contractors performing work near adjacent structures are responsible for providing protection to the adjacent structure in order to prevent any damage.
16. Contractors must follow the Construction Manager's Hot and/or Cold Weather Concrete Plan unless the contractor submits an alternate plan that is approved by the Construction Manager.
17. Freshly placed concrete must maintain a minimum temperature of 50°F for 3 days after placement.
18. All site concrete (pavement, sidewalks, curbing, etc.) will require a cure and seal product with a minimum of 25% solids be applied per the manufacturer's recommendations unless a more stringent requirement is stated per the contract documents.

G. **CAST-IN-PLACE CONCRETE**
1. This Contractor shall provide complete building and site related concrete scopes of work in accordance with the project documents.
2. This Contractor shall review all drawing disciplines and field conditions to determine the full extent of slab replacement, infill, and pour-back work required.
3. This Contractor shall evaluate project schedule and include any Hot/Cold weather placement considerations and include any cost associated in the base bid.
4. This Contractor shall provide all excavation, backfilling, and excess spoil removal for concrete scope of work.
5. This Contractor shall provide all concrete reinforcement for concrete placed under this scope of work.
6. This contractor shall be responsible for installation of anchor bolts and steel embeds as scheduled to be cast-in-place. Anchor Bolts and embed plates to be supplied by others as required. Anchor bolt installation tolerance shall be +/- 1/8" in any direction. This Contractor shall chase all anchor bolt threads after concrete pours and prior to steel erection.
7. This Contractor shall provide re-entrant bars at all inside and outside corners of new concrete placed under this scope of work to prevent excess cracking.
8. This Contractor shall provide specified level of finishing for all concrete placed under this scope of work as indicated in the project documents.
9. This contractor responsible for curing of all concrete as specified.
10. The Contractor shall perform saw cutting of control joints as specified in the project documents or as required by the applicable industry standards, including ACI 302.1R and ACI 360R, whichever is more stringent.
11. This Contractor shall provide expansion materials and joint sealants at concrete expansion joints where specified in the project documents.

12. This contractor shall provide joint sealants at concrete control joints where specified in the project documents.
13. This Contractor shall provide concrete filled pipe bollards where indicated.
14. This Contractor shall provide smooth formed finish on concrete exposed to view and repair any defects, including tie holes, immediately after removing formwork in accordance with the project documents. This includes a rubbed down finish at exposed concrete with an approved material.
15. This Contractor shall provide all steel reinforcing at foundations in accordance with the project documents, contractor shall provide proper reinforcing chairs/supports in accordance with the project documents.
16. This Contractor shall provide vertical reinforcing dowels embedded in concrete foundations to serve as vertical reinforcement for masonry walls where required.
17. This Contractor shall provide all water stop for concrete placed under this scope of work where specified.
18. This Contractor shall provide the new footing, foundation, and slab tie-ins for the new CMU walls at the pool area per S3.1. Work includes all formwork, reinforcing, dowels into existing slab, and concrete placement as indicated. This Contractor shall also provide any additional excavation, over-excavation, and compacted backfill required to meet the design criteria. This Contractor shall remove and dispose of all spoils off site.
19. This Contractor shall provide slab patching, infill, and pour backs at all locations where existing slab has been removed or disturbed, including removed partitions, plumbing trenches, electrical trenches, removed shower curbs, gutters, raised slabs, and tile setting beds, removed locker bases, removed interior concrete ramp, and cut anchors and embedded items. This Contractor shall provide repair of voids and damaged slab areas exposed by demolition, and shall bring patched areas flush with adjacent slab and flat and level within the tolerance specified for the scheduled floor finish, or sloped to floor drains in shower rooms where indicated. This Contractor shall accept slab conditions as left by the **Demolition & Abatement Contractor** and shall be responsible for all slab restoration from that point forward. Final surface preparation, skim coat, and self-leveling underlayment required for finish manufacturer warranty will be provided by the **Flooring Contractor.**
20. At the removed ramp, this Contractor shall provide subgrade preparation, vapor retarder, reinforcing, and doweling into existing slab as required to restore full-depth slab flush with adjacent floor.
21. **WEH:** this Contractor shall provide cast-in-place intermediate aisle steps at the pool bleachers.
22. Contractor shall take special consideration of the FF/FL requirements of the specifications. Failure to do so may result in the rejection of finished slab. This contractor will be responsible for any floor patching/grinding if required due to failed/rejected concrete slabs.
23. This Contractor understands that the floor slabs will contain plumbing and electrical stub-ups and rough-ins and shall take precautions to protect previously installed work. If damaged during installation of concrete work, it is the responsibility of the contractor to notify the Construction Manager.
24. This Contractor shall provide all required fine grading for proper subgrade preparation as required for placement of concrete.
25. Contractor shall provide all granular fill under concrete placed by this scope of work.
26. Contractor shall provide vapor barrier under concrete placed by this scope of work where required.
27. This Contractor shall provide all concrete slab reinforcement and dowels as specified in the project documents.

28. This Contractor shall provide concrete housekeeping pads and equipment bases for plumbing, mechanical, electrical, and fire-protection equipment where indicated, including reinforcing, dowels, embeds, and installation of anchor bolts furnished by the equipment installer where required.
29. This Contractor shall provide all site-related concrete, including but not limited to the following features where indicated:
    a. Cast-in-place sidewalks, ramps, stairs, and tactile warning surfaces.
    b. Door stoops, aprons, frost walls, and lean concrete under stoops and aprons
    c. Concrete pavement.
    d. Concrete curbs
    e. Playground perimeter curbs
30. This Contractor shall provide a new cast-in-place concrete retaining wall, complete and in place, including excavation, backfill, reinforcement, footings, formwork, layout, and bracing as required for complete installation. This Contractor shall provide wall drainage as indicated. This Contractor shall provide expansion and control joints as required.
31. This Contractor shall provide excavation, backfill, and spoil removal for any concrete placed under this scope of work.
32. This Contractor shall provide all fine grading and aggregate base course for site concrete. Rough grading and compacted subgrade are by **Site Contractor**; coordinate elevations and accept the prepared subgrade before placing base and concrete.
33. This Contractor shall ensure all subgrade meets compaction requirements prior to placement of site concrete.
34. This Contractor shall provide all concrete reinforcement required for site concrete placed under this scope of work.
35. This Contractor shall provide all expansion materials and joint sealants for site concrete as specified.
36. This Contractor shall provide a smooth formed finish on all concrete exposed to view, including the retaining wall, and shall repair any defects, including tie holes and form pin holes, immediately after form removal in accordance with the project documents.
37. Tactile warning surfaces shall be cast-in-place, ADA-compliant, plastic tactile warning tiles. Stamped or applied concrete dome patterns shall not be an acceptable substitute.

H. **MISCELLANEOUS STEEL**

1. This Contractor shall provide all shop-fabricated miscellaneous steel and aluminum items, including loose angles, channels, brick ledges, steel plates, lintels, anchors, fasteners, and related accessories where indicated.
2. This Contractor shall provide loose angles for concentrated load reinforcement. Contractor shall field cut and install concentrated load reinforcement as required by the project documents. Both the steel fabricator and erector shall review all relevant drawing disciplines to verify the quantity, location, and requirements for concentrated load joist reinforcement.
3. This Contractor shall provide steel support frames for rooftop mounted equipment where required in accordance with the provided roof frame specifications.
4. This Contractor shall provide all masonry head of wall supports where indicated, including continuous steel angles, loose angle bracing, steel plates, and all required anchors and fasteners. This Contractor shall also furnish and install any ancillary bridging steel required to span between waffle slab ribs or joists to provide a continuous bearing point for head of wall supports. All steel shall be connected to the existing structure per the details and shall include shop primer or finish as specified.

I. **BUILDING STAIRS & RAILINGS**

1. This Contractor shall provide complete pipe and tube handrail and guardrail systems where indicated, including posts, rails, infill, fittings, connections, anchorage, and all associated hardware required for a complete installation.

2. This Contractor shall provide aluminum handrail and guardrail systems where indicated, including posts, rails, infill, fittings, connections, anchorage, and all associated hardware required for a complete installation.
3. Contractor shall coordinate interfaces with adjacent construction and verify field conditions prior to fabrication.
4. Where required, this Contractor shall provide delegated design by a Professional Engineer licensed in the project jurisdiction, including signed and sealed calculations and shop drawings demonstrating compliance with applicable codes and design criteria.
5. This Contractor shall provide post-install anchored handrails at concrete/masonry walls where indicated.
6. This Contractor shall provide all handrails and guardrails embedded in concrete, including core drilling, installation, solid grouting of posts, and coordination with concrete reinforcing. At WEH pool-bleacher aisle steps, comply with Detail 4/S3.1.

J. **SITE HANDRAILS & GUARDRAILS**
1. This Contractor shall provide all site handrails and guard rails where specified. Contractor shall provide core drill and grout for installation of handrails that are cast into concrete. Contractor shall provide expansion anchors for post-installed hand rails.
2. This Contractor shall provide fence mounted handrails where indicated.

K. **ROUGH CARPENTRY**
1. This Contractor shall ensure all lumber and wood materials meet the specified grades, treatment requirements, and applicable codes.
2. This contractor shall provide all rough carpentry materials, including wood blocking, in-wall blocking, and plywood sheathing (interior and exterior), as required by the Contract Documents.
3. This Contractor shall provide all dimensional lumber and plywood, including miscellaneous framing and support members required for a complete installation.
4. This Contractor shall provide all blocking required to support and secure architectural components, casework, specialties, and wall-mounted fixtures/equipment, whether shown, scheduled, or reasonably inferred.
5. This Contractor shall provide continuous plywood backing at walls receiving casework, marker boards, tack boards, TV mounts, and similar items where indicated or required for proper support.
6. This Contractor shall provide blocking for Division 10 specialties including toilet accessories, lockers, visual display boards, fire extinguishers/cabinets, and similar items.
7. This Contractor shall provide blocking for Division 11 equipment and owner-furnished/contractor-installed (OFCI) items.
8. This Contractor shall provide blocking and backing for Owner-Furnished Contractor-Installed (OFCI) items unless specifically assigned elsewhere.
9. Coordinate dimensions, load requirements, and installation locations with Owner and suppliers prior to installation.
10. This Contractor shall provide blocking at door frames, borrowed lites, and wall openings as required for proper installation and anchorage.
11. This Contractor shall provide fire-retardant-treated wood (FRTW) blocking at framed openings, roof/wall intersections, and other locations where required by code or the Contract Documents.
12. This Contractor shall provide fire blocking, draft stopping, and nailers as required to maintain fire-resistance ratings and code compliance.
13. This Contractor shall provide plywood backing for electrical panels, data racks, and low-voltage equipment where required.

L. **ARCHITECTURAL WOOD CASEWORK**

1. This Contractor shall provide all finish carpentry, architectural wood casework, solid-surface work, and solid-wood work indicated in the Contract Documents, including associated components, accessories, trim, substrates, supports, and hardware required for a complete installation.
2. All materials, fabrication, and installation shall comply with AWI standards, project specifications, and applicable codes.
3. This Contractor shall provide all base cabinets, wall cabinets, tall cabinets, and related components. This contractor shall provide sloped panels below sinks where indicated.
4. This Contractor shall provide all casework hardware, including hinges, drawer slides, pulls, locks, and fasteners. Hardware shall meet the specified grade, finish, and performance requirements.
5. This Contractor shall provide all casework accessories, including but not limited to drawer inserts, adjustable shelves, and specialty storage components where specified.
6. This Contractor shall provide all wall-mounted shelving systems, including standards, brackets, clips, and shelves.
7. This Contractor shall provide all solid surface countertops, including integral backsplashes, aprons, and end splashes where specified.
8. This Contractor shall provide all solid wood tops, frames, and specialty wood surfaces where specified.
9. This Contractor shall provide all countertop substrates, build-ups, and support systems, including wall-mounted brackets, corbels, and concealed steel brackets, required for a complete installation.
10. This Contractor shall provide solid surface shower surrounds, wall caps, and window sills where indicated.
11. This Contractor shall carefully remove, store, protect, and reinstall salvaged casework where indicated. This Contractor shall clean, repair, and modify salvaged casework as required for a functional and complete reinstallation, and shall coordinate reinstallation with new work to ensure alignment, fit, and finish consistency.
12. This Contractor shall provide all cutouts and clearances for sinks, faucets, equipment, and electrical devices.
13. This Contractor shall coordinate with plumbing, mechanical, and electrical trades for all casework and countertop penetrations, cutouts, and device locations.
14. This Contractor shall coordinate required in-wall blocking locations with the Construction Manager.

M. **ROOFING**

1. This Contractor shall verify warranty of existing roofing systems and utilize a licensed applicator of the existing roofing system to perform all roofing work.
2. This Contractor shall provide roof-walkway protection where indicated, at all sides of rooftop equipment requiring service, and at the top and bottom of roof stairs.
3. **WEH:** RTG-005, this Contractor shall provide the complete roof-system work at the retained existing curb and new seismic adapter curb, including treated nailers, curb insulation, cant strips, crickets, roofing and insulation patching, base and cap flashings, and sheet-metal counterflashings. The rooftop unit and equipment curb are by the Mechanical Contractor.
4. Each penetrating Contractor shall furnish sleeves and penetrant-specific interior and exterior seals for its work. This **Contractor** shall cut and patch the roofing and furnish and install roof-system and sheet-metal flashings at all penetrations to preserve the roof warranty. The penetrating Contractor shall pay for roofing work caused by late or uncoordinated penetrations.

N. **FIRESTOPPING**

1. This Contractor shall provide firestopping and smoke sealing at rated and smoke-resistant assembly joints and openings not created by another trade, including wall-to-wall, wall-to-floor, construction-joint, perimeter, and existing abandoned or unsealed conditions within the work area. Head-of-wall joint systems at metal-stud walls are by **Drywall Contractor**. Each penetrating Contractor shall firestop its own penetrations in accordance with General Provisions.
2. At fire-rated and smoke-rated metal stud walls, **Drywall Contractor** shall provide complete UL-listed head-of-wall joint systems, including deflection track, mineral wool flute fill, safing, fire-rated joint sealant, and movement allowance, per the firestopping specification.
3. Each Contractor that penetrates a fire-rated or smoke-rated wall, floor, or ceiling assembly shall firestop its own penetrations using a UL listed firestopping system appropriate for the penetrating item and the rated assembly. Firestopping shall restore the full rating of the assembly and shall be installed per the manufacturer's listing. Each Contractor shall submit its UL system details for review, and shall coordinate its firestopping products and systems with the General Trades Contractor to ensure compatibility with the overall project firestopping systems.
4. Firestopping shall be provided as complete UL-listed systems for all conditions, whether or not specifically detailed in the Contract Documents, including sealants, intumescent materials, mineral wool, backing materials, collars, wraps, and accessories. Systems shall comply with UL, ASTM, and applicable code requirements.
5. Where no UL-listed system exists for a condition, this Contractor shall provide an engineered firestopping system and submit engineering judgments sealed by a qualified professional, along with shop drawings, for review.
6. All systems shall comply with UL, ASTM, and applicable code requirements, including listed and tested assemblies for each condition.

O. **JOINT SEALANTS**
1. This Contractor shall provide all joint sealants required for a complete, watertight, and airtight installation, unless specifically assigned to another trade below. Provide complete systems including sealants, backer rod, bond breakers, primers, and accessories.
2. **Typical:** Sealants shall not be applied directly to weather barriers or dimensional wood blocking. Provide substrate preparation, primers, or bond-break materials as required..
3. This Contractor shall provide sealants at all exterior joints exposed to weather, including control joints, expansion joints, and dissimilar material transitions, and at all interfaces between new and existing construction, including walls, floors, ceilings, and exterior envelope transitions.
4. This Contractor shall provide joint sealants, backer rod, and bond breaker at all masonry control joints, expansion joints, and veneer joints, and at masonry interfaces with dissimilar materials other than gypsum board.
5. This Contractor shall provide interior and exterior sealants at all hollow metal frames.
6. This Contractor shall provide interior perimeter finish sealants at all aluminum-framed openings, including storefront, curtainwall, and windows.
7. This Contractor shall provide exterior perimeter and system weather seals at aluminum-framed openings.
8. This Contractor shall provide sealants at all architectural woodwork and casework interfaces, including countertops, backsplashes, end splashes, and wall connections.
9. This Contractor shall provide sealants at interior saw-cut control joints exposed as final finish, slab-on-grade joints, and vertical-to-horizontal transitions where indicated. Sealants at floor penetrations are by the penetrating Contractor.

10. **Drywall Contractor** shall provide sealants at all joints where gypsum board is one side of the joint, including partition perimeters, wall intersections, finish transitions, gypsum board to CMU transitions, and non-rated head-of-wall conditions. Fire-rated head-of-wall joint systems at metal stud partitions are by the **Drywall Contractor** per the firestopping requirements.
11. **Penetrating Contractors:** Each Contractor that penetrates a wall, floor, ceiling, or roof assembly shall seal its own non-rated penetrations to maintain air, moisture, and acoustic separation, and shall firestop its own penetrations in rated assemblies per the firestopping requirements.

P. **DOORS / FRAMES / HARDWARE**

1. Contractor shall perform field verification of existing conditions, as required, prior to ordering materials.
2. At WEH, this Contractor shall cut existing interior brick as required to achieve 6'-4" rough opening for new door C1O.
3. This Contractor shall provide all hollow metal doors, hollow metal frames, flush wood doors, fiberglass doors, and associated door hardware where specified.
4. This Contractor shall provide all door hardware listed in the door and hardware schedules unless specifically assigned to another Contractor in this Section. Coordinate electrified hardware, power supplies, access-control interfaces, and final connections with the **Electrical Contractor.**
5. This Contractor shall provide and install access-control door hardware, devices, and cabling from the door hardware to the accessible ceiling or similar location. The **Electrical Contractor** shall provide access-control device wiring and Category 6 home runs; the Owner shall provide programming and final patch-panel connections.
6. This Contractor shall prepare existing frames to receive new doors and hardware wherever shown, scheduled, or otherwise indicated.
7. This Contractor shall provide all electrified or security hardware unless the project documents specify otherwise. Any discrepancies regarding responsibility must be brought to the attention of the Construction Manager, and a pre-bid Request for Clarification shall be submitted for resolution.
8. This Contractor shall provide all door hardware for aluminum doors in aluminum framed openings unless noted otherwise, including the installation of new hardware into existing aluminum frames and any frame modifications required to accommodate the new hardware.
9. This Contractor shall provide bituminous coating to hollow metal frames installed in concrete and masonry walls where indicated.
10. This Contractor shall provide expanding foam infill of door frames where indicated.
11. This Contractor shall provide hollow metal door frame grouting where indicated unless noted otherwise.
12. This Contractor shall provide insulated FRP/metal infill panels at hollow metal frames where indicated.
13. Contractor is responsible for keying into Owners current key system.
14. This contractor shall coordinate frame construction and anchoring systems with specified wall types and throat depths.

Q. **ACCESS PANELS**

1. This Contractor shall provide all access panels indicated in the project documents. Access panels shall be properly rated to match the assembly rating to which it is installed.
2. Any Contractor requiring an access panel not explicitly shown in the project documents shall furnish and install access panels of sufficient size to ensure proper access, with each panel appropriately rated to match the fire or performance rating of the assembly in which it is installed.

R. **ALUMINUM FRAMED STOREFRONTS & WINDOWS**

1. This Contractor shall provide all exterior and interior aluminum storefronts, windows, and door frames where indicated, including mounting brackets, anchors, shims, and attachment components required to meet the specified performance requirements.
2. This Contractor shall provide aluminum door frames to receive FRP doors. Coordinate frame preparation, reinforcing, and electrified hardware provisions with the door and hardware supplier.
3. This Contractor shall provide insulated FRP infill panels in aluminum framed assemblies where indicated.
4. This Contractor shall provide sill pans with end dams, sheet metal sill flashings, and all integral flashings and trims associated with aluminum framed assemblies where indicated or required by the manufacturer's shop drawings.
5. This Contractor shall provide continuous sealant beds, exterior perimeter sealants, and system weather seals at all aluminum framed openings.
6. This Contractor shall perform field water testing of installed systems in accordance with the Contract Documents. Correct deficiencies and retest failed locations at no additional cost.

S. **GLAZING**
1. This Contractor shall provide all specified glazing at aluminum storefronts and windows, hollow metal frames and doors, fiberglass doors, and wood doors, including glass, setting materials, glazing accessories, and complete installation in accordance with the required type and performance.
2. This Contractor shall provide all safety and security glazing at specified openings.
3. This Contractor shall provide large format and frameless mirrors as specified.
4. This Contractor shall protect installed glass and framing through completion and replace damaged or broken glass prior to Substantial Completion.
5. This Contractor shall remove all labels, stickers, and excess sealant, and clean all glass and framing installed under this scope, interior and exterior.

T. **LOUVERS**
1. **Door Louvers:** This Contractor shall provide all louvers and transfer grilles built into door leaves, wherever shown, scheduled, or otherwise indicated.
2. Louver at Door EXD-1601: At WEH Door EXD-1601, this Contractor shall provide the complete Special-Lite door, aluminum frame, and exterior louver with insect screen, including all framing, mullions, receptors, anchorage, and accessories**. Mechanical Contractor** shall provide existing boiler intake duct scope of work at EXD-1601 Louver.
3. All other louvers are provided by the **Mechanical Contractor**. This includes exterior wall louvers other than the louver integral to Door EXD-1601, intake, exhaust, and relief louvers, and louvered penthouses.

U. **SAFETY AND SECURITY FILMS**
1. This Contractor shall provide all safety and security films applied to existing glazing in accordance with manufacturer’s requirements where indicated.

V. **WOOD FLOORING**
1. This Contractor shall monitor and record ambient temperature and relative humidity in the gymnasium beginning a minimum of 7 days prior to delivery of flooring materials and continuing through completion of finishing. Readings shall be logged daily and submitted to the **Construction Manager** weekly. This Contractor shall notify the **Construction Manager** in writing within 24 hours of any condition outside the specified range of 55 to 75 degrees F and 35 to 50 percent relative humidity.
2. This Contractor shall provide moisture testing of the concrete substrate prior to installation, at the frequency required by the flooring manufacturer. Written test results shall be submitted to the **Construction Manager** prior to installation. This Contractor shall notify the **Construction Manager** in writing of any results exceeding manufacturer limits.

3. This Contractor shall include all labor, materials, testing, and accessories necessary to provide a complete moisture mitigation and vapor barrier system beneath the new wood gymnasium flooring. The system shall meet the highest moisture protection standards recommended by the flooring manufacturer for installation over existing concrete slabs and shall be sufficient to maintain all manufacturer warranties. All costs associated with the system shall be included in the Base Bid.
4. Existing wood gymnasium flooring will be removed and the slab left broom clean by **Demolition & Abatement Contractor**; all other floor preparation required shall be performed by this Contractor.
5. This Contractor shall verify slab recess depth and floor flatness and notify **Construction Manager** of out of tolerance conditions. Contractor shall provide grinding of high spots and filling of depressions to +/- 1/8 inch in 10 feet as part of the base bid.
6. This Contractor shall provide all floor preparation required for installation of the athletic flooring system in accordance with the manufacturer's written requirements. This includes cleaning and removal of curing compounds, sealers, and contaminants detrimental to installation.
7. This Contractor shall provide a vapor retarder in accordance with the manufacturer's requirements. Base bid shall include a vapor retarder system suitable for substrate RH up to 85% as measured per ASTM F2170. If test results exceed 85% RH, this Contractor shall submit the manufacturer's recommended mitigation and associated cost to the Construction Manager for review prior to proceeding.
8. This Contractor shall provide subfloor infill as required so that the approved wood athletic flooring system finishes flush with adjacent finished floors. Transitions, thresholds, and reducer strips at all adjacent surfaces are included.
9. This Contractor shall provide a complete athletic wood flooring system in accordance with the contract documents, MFMA guidelines, and the manufacturer's requirements.
10. At WEH Gym B 2606, this Contractor shall coordinate the athletic wood flooring with existing volleyball sleeves and provide new cover plates compatible with the flooring system. Coordinate all sleeve and cover work between the wood flooring and gym equipment installers.
11. This Contractor shall provide solid wood blocking under bleacher areas as required to support bleacher loads and anchorage. This Contractor shall coordinate layout, anchor locations, and floor-to-bleacher interface with the bleacher provider prior to installation.
12. This Contractor shall provide all game lines, stains, custom logos, and court markings as indicated in the contract documents. This Contractor shall submit scaled shop drawings of game line layout, logos, and color samples for Owner approval prior to painting.
13. This Contractor shall provide a mock-up of the flooring system including subfloor, resilient pads, wood flooring, final finish, and example of painted game lines for Architect approval prior to installation.
14. This Contractor shall prohibit traffic on the finished floor for 72 hours after installation, and shall provide and maintain protective coverings over finished floors through Substantial Completion.
15. This Contractor shall clean finished floor surfaces in accordance with floor finish manufacturer's instructions at completion of work.
16. This Contractor shall provide all game lines, custom logos and court markings. Contractor shall provide detailed shop drawings for final art approval.
17. This Contractor shall coordinate installation sequencing with removal of existing flooring, telescoping bleacher reinstallation, athletic equipment and wall padding, painting, and permanent HVAC operation.
18. At completion of gym floor replacement, this Contractor shall verify existing basketball goal heights and make any adjustments necessary to meet MHSAA regulations.

W. **SOUND ABSORBING WALL AND CEILING UNITS**

1. This Contractor shall provide all sound absorbing wall and ceiling units (AP-1 thru AP-8) where indicated in the project documents.
2. This Contractor shall provide all wrapped fiberglass tackable wall panels where indicated in the project documents.
3. This Contractor shall provide all fabric-covered acoustical ceiling baffles where indicated in the project documents.
4. This Contractor shall provide all fixed absorptive and diffusive panels where indicated in the project documents.
5. This contractor shall provide all mounting hardware required for the installation of sound absorbing units installed under this scope of work.

X. **VISUAL DISPLAY BOARDS**

1. This Contractor shall provide all visual display units including markerboards and tack boards wherever shown, scheduled or otherwise indicated in the project documents.

Y. **PROJECT SIGNAGE & GRAPHICS**

1. This Contractor shall provide all interior building signage and plaques where indicated, including room identification, restroom identification and pictogram signs, door signs, door frame signs, stairwell signs, and storm shelter signage, with all mounting hardware and adhesives.
2. Signage shall comply with ADA and ICC A117.1 requirements for tactile characters, Braille, and mounting location, and storm shelter signage shall comply with ICC 500.
3. This Contractor shall submit a sign message schedule for Owner and Architect review prior to fabrication. Final room names and numbers shall be confirmed with the Owner.
4. This Contractor shall provide all code-required door and window decals where indicated. Provide new decals where existing decals are scheduled for reuse but cannot be salvaged intact. Coordinate decal locations and finishes with the Architect and the Authority Having Jurisdiction.
5. This Contractor shall provide vinyl window graphics, including custom graphics, where indicated.
6. This Contractor shall provide custom vinyl wall graphics (SF-1) and custom metal prints (SF-2), including surface preparation and mounting hardware, where indicated.
7. This Contractor shall reinstall salvaged banners, flags, and wall-hung graphics at the pool following completion of painting, where indicated. Provide corrosion-resistant fasteners and anchors suitable for the natatorium environment.

Z. **WALL COVERINGS**

1. This Contractor shall provide all wall covering systems as indicated, including materials, adhesives, primers, trims, and accessories for a complete installation
2. Provide vinyl wall covering (VWC), including standard, high-performance, and specialty types, where indicated including custom printed wall coverings and custom vinyl wall graphics, where indicated.
3. Inspect and prepare substrates to receive wall coverings, including patching, sanding, priming, and smoothing surfaces
4. Provide wall covering primer/sealer compatible with adhesive and substrate
5. Provide all trim, edge terminations, corner guards, and seam treatments per manufacturer's requirements
6. Provide pattern/seam layout matching manufacturer's recommendations, including dye lot verification prior to installation
7. Provide protection of installed wall covering from other trades through Substantial Completion
8. Coordinate installation sequencing with adjacent finish trades (casework, doors/frames, electrical devices, signage) to avoid rework or damage
9. Maintain manufacturer-required ambient temperature and humidity conditions during installation and cure

AA. **PAINTING**

1. This Contractor shall provide all field applied paints shown on the project drawings. Contractor is responsible for reviewing all drawing sets for field applied paints and shall include all such painting in base bid.
2. This Contractor shall provide adequate ventilation of the work areas by whatever means necessary (i.e. fans, working second shifts, overtime, etc.) to ensure that fumes from the products being utilized by the Contractor dissipate quickly to allow other trades to work in the same general area.
3. This Contractor shall prepare and clean all gymnasium surfaces scheduled for painting, including exposed ceiling deck, structural steel, joists, walls, ductwork, conduit, piping, and hangers. Preparation shall include removal of dust, dirt, grease, and loose or peeling paint, and all cleaning required to meet the paint manufacturer's surface preparation requirements. Prior to preparation, this Contractor shall carefully remove all banners, signs, posters, and wall-mounted items, and shall turn them over to the Owner undamaged at a location designated by the Owner.
4. Contractor shall provide all painting preparation work as specified as part of the base bid where required. Contractor shall patch / infill wall holes prior to painting.
5. Patched walls and ceilings shall be painted from corner to corner or to nearest break point to provide a seamless transition from newly painted surfaces to existing surfaces.
6. Contractor shall inspect level of finish on new gypsum walls prior to painting. **Drywall Contractor** shall repair any defects in gypsum walls identified by Painting Contractor. This process will continue until Painting accepts the wall finish and applies paint primer to the wall at which time Painting will assume all patching of walls.
7. This Contractor shall protect adjacent surfaces from overspray.
8. Contractor shall patch and paint existing surfaces exposed by demolition scope of work to match existing finishes.
9. This Contractor shall provide all interior and exterior painting including interior walls, ceilings, decking, bar joist, steel, conduit, ductwork, piping, etc. as shown, scheduled, or otherwise indicated.
10. This Contractor shall paint exposed surfaces, except where the project documents indicate that the surface or material is not to be painted or is to remain natural. If an item or a surface is not specifically mentioned, paint the item, or surface the same as similar adjacent materials or surfaces. If a color of finish is not indicated, Architect will select from standard colors and finishes available.
11. Contractor shall prep and paint exposed ceiling structure wherever shown, scheduled, or otherwise indicated. Contractor shall protect existing floor finishes to remain from overhead painting overspray/dryfall.
12. This Contractor shall paint exposed mechanical, electrical, plumbing items in finished areas. Paint insulated and exposed pipes, conduit, boxes, insulated and exposed ducts, hangers, brackets, collars and supports, mechanical equipment, electrical equipment, and electrical raceways, unless otherwise indicated.
13. This Contractor shall paint all stair risers, stringers, and rails. Paint exposed underside of stairs, Any gap between stairs and wall shall be filled as required to be caulked and painted.
14. This Contractor shall paint exterior pipe bollards.
15. This Contractor shall paint exterior handrails where indicated.
16. This Contractor shall paint new gas piping on exterior of building and top of roof where indicated. All gas piping at building exterior shall be painted whether shown in project documents or not, contractor is responsible for verifying conditions. Existing gas piping to remain shall not be painted, provided it has been previously painted, as part of the base bid.
17. This Contractor shall paint all interior and exterior hollow metal doors, borrowed lites, and frames per the bid documents.

18. This Contractor shall remove any stickers, labels, or markings on piping, conduit, ductwork, etc. prior to painting unless label is scheduled to remain.
19. **Fire Suppression Contractor** shall bag and protect sprinkler heads in exposed ceiling areas to be painted. This Contractor shall remove protection after ceiling painting is complete.
20. This Contractor shall paint exposed pipes and conduits at existing, previously painted exposed ceilings after pipe installation, using a roller to apply paint while protecting adjacent finished surfaces.
21. This Contractor shall prepare and refinish existing hollow metal frames where indicated. Contractor shall provide metal filler to correct any defects in door frames prior to painting.
22. This Contractor shall prep and paint corridor side of elevator doors where indicated.
23. This Contractor shall prep and paint exterior side of elevator doors where indicated.
24. **SITE SPECIFIC PAINTING**
    a. ECC Room 2202: This Contractor shall patch, repair, and repaint existing walls as needed for new penetrations and adjacent work.
    b. At WEM, this Contractor shall paint new exposed sprinkler piping before installation where practical and touch up fittings, braces, and damaged coatings after installation.
    c. At WEM, this Contractor shall prepare and paint the new surface-mounted fire department connection with a coating system compatible with galvanized metal.

BB. **TOILET COMPARTMENTS**
1. This Contractor shall provide all toilet compartments and urinal screens as indicated in the Contract Documents, complete and ready for use, including but not limited to compartment doors, pilasters, divider and side panels, wall and ceiling supports, all mounting and attachment hardware, latches, hinges, brackets, and all associated trim and accessories required for a complete and functional installation.

CC. **WIRE MESH PARTITIONS**
1. This Contractor shall provide wire mesh partitions where indicated in the Contract Documents. Work includes all mesh panels, framing, posts, corner and line connections, top capping and bracing, doors and door frames, hardware, locksets, and floor and structure anchorage required for a complete installation. This Contractor shall field verify all dimensions prior to fabrication, and shall provide factory finish as specified. Coordinate cylinders and keying with the Owner's hardware requirements.

DD. **WALL & CORNER PROTECTION**
1. This Contractor shall provide corner guards where indicated. Coordinate framing and recess requirements for flush-mounted corner guards with the Construction Manager.
2. This Contractor shall provide impact-resistant wall protection (WP), including adhesives, anchors, trims, and accessories, where indicated.
3. This Contractor shall provide fiber reinforced plastic (FRP) paneling, including adhesives, anchors, trims, and accessories, where indicated.

EE. **TOILET, BATH, AND LAUNDRY ACCESSORIES**
1. This Contractor shall provide all commercial toilet and bath accessories wherever shown, scheduled, or otherwise indicated in the project documents.
2. This Contractor shall furnish electric hand dryers where indicated in the project documents. **Electrical Contractor** shall install hand dryer and make final electrical terminations.
3. This Contractor shall provide all utility room accessories where indicated in the project documents.
4. All accessories to be mounted per project documents and to accommodate ADA requirements.

FF. **FIRE PROTECTION SPECIALTIES**

1. This Contractor shall provide all fire-protection cabinets and portable fire extinguishers where indicated in the project documents.
2. This Contractor shall provide fire rated fire protection cabinets when installed in rated assemblies.

GG. **LOCKERS**

1. This Contractor shall provide all lockers, including locker bases, indicated in the project documents.
2. This Contractor shall provide loose wood locker benches where indicated in the project documents.

HH. **WALL MOUNTED STANDARDS AND SHELVING**

1. This Contractor shall provide all metal storage shelving and wall-mounted shelf brackets, standards, accessories, and shelves where indicated in the project documents.

II. **ATHLETIC EQUIPMENT**

1. This Contractor shall provide new athletic wall pads where indicated, including mounting hardware and cutouts for wall-mounted devices.
2. This Contractor shall provide floor sleeves, anchors, and flush covers for volleyball nets and other floor-mounted gymnasium equipment where indicated, coordinated with the wood athletic flooring installer.

JJ. **PLAYGROUND GENERAL**

1. **At ECC, the Sitework Contractor** shall remove existing playground equipment, mulch, signage, and foundations to the extents indicated.
2. Playground equipment and poured in place surfacing shall be provided under separate contract direct with the District.
3. This Contractor shall provide all fencing associated, see fencing this section.

KK. **WINDOW SHADES**

1. This Contractor shall re-install salvaged window treatments at window replacements as required.
2. This Contractor shall provide any window treatments indicated complete with mounting brackets, roller tubes, hembars, hardware and accessories wherever shown, scheduled, or otherwise indicated in the project documents.

LL. **CLASSROOM FURNITURE**

1. The Contractor shall be responsible for inventorying, tagging, removing, storing, and reinstalling all classroom/office furniture as necessary to facilitate the work. If feasible, furniture may be relocated within the work area rather than removed, provided it does not obstruct access to the work zone.
2. Classroom furniture shall include but not be limited to tables, desks, chairs, mobile storage units, bookshelves, and non-fixed furniture in each space.

MM. **SPECTATOR SEATING**

1. This Contractor shall provide all spectator seating systems indicated, including aisle steps, handrails, guardrails, ADA-compliant wheelchair and companion seating locations, row numbering, safety signage, capacity placards, and accessories as specified. Systems shall comply with ICC 300, accessibility requirements, and applicable codes.
2. This Contractor shall provide anchorage design and installation into the structural slab, deck, or support framing per the manufacturer's engineered requirements, coordinated with the structural documents. Submit shop drawings and calculations for anchorage and structural components, stamped by a licensed engineer, for EOR review.
3. This Contractor shall field verify existing conditions, including riser dimensions and floor flatness and levelness, prior to fabrication. Notify the Construction Manager of deficiencies requiring correction by others.

4. This Contractor shall provide composite fixed bleacher seating on the existing cast-in-place concrete risers at WEH Pool, including all support framing, anchorage, shims, and supplemental materials required to achieve the specified seating height and a complete installation. This Contractor shall field verify existing riser dimensions and conditions prior to fabrication.
5. This Contractor shall provide complete telescoping bleacher systems, including structural framing, seating, platforms, decking, fascia panels, fillers, end closures, end curtains, scorer's table, and closure and locking devices.
6. This Contractor shall provide manual or powered operation as indicated. Powered systems shall include motor and drive components, control stations, and safety interlocks.
7. Assembly, adjustment, and testing shall be performed by the manufacturer's certified installer. This Contractor shall demonstrate operation to the Owner prior to acceptance, including safety interlock verification on powered systems.
8. This Contractor shall protect and barricade the seating areas from installation through final inspection and acceptance.

NN. **SWIMMING POOLS**

1. This Contractor shall provide and maintain temporary protection of the pool shell and tile throughout construction.
2. This Contractor shall prepare the pool basin for refurbishment, including acid washing, power washing, cross brushing, and vacuuming.
3. This Contractor shall remove existing starting blocks, including anchors and sockets, in preparation for pool deck replacement.
4. This Contractor shall provide new starting blocks where indicated, including anchors, sockets, and mounting hardware, installed per the manufacturer's requirements.
5. This Contractor shall modify the existing cast-in-place pool deck to receive new starting block anchors, including removal of existing sockets, core drilling, setting and grouting of new sockets, and patching of abandoned anchor locations to match the adjacent deck finish. Scan the deck prior to coring to locate embedded reinforcing, bonding grid, and piping.
6. This Contractor shall remove, store, protect, and reinstall existing pool ladders, including new stainless steel anchors and escutcheons as required.
7. **Flooring Contractor** shall provide pool shell refurbishment including regrouting with epoxy grout, sealing, and replacement of damaged tile, performed on a time and material basis from an allowance held by the Construction Manager.

OO. **ELEVATORS**

1. This Contractor shall provide selective removal and disposal of existing elevator components specifically indicated for replacement as part of the elevator modernization work.
2. This Contractor shall provide all labor, materials, equipment, supervision, permits, and inspections required for the modernization of two (2) existing hydraulic elevators at Parkway West High School: one (1) four-stop service elevator and one (1) two-stop passenger elevator. Work shall be performed in accordance with the Contract Documents and all applicable codes, including ASME A17.1 and the Missouri Elevator Safety Act.
3. The Work generally includes, but is not limited to, the following:
    a. Controls and Power: New nonproprietary microprocessor controllers and new hydraulic power units at each elevator.
    b. Doors and Door Equipment: Service elevator: new car and hall doors and new door operating equipment. Passenger elevator: new car door and door operator with retrofit equipment allowing retention of existing hall doors.
    c. Running Equipment: New roller guides, hoistway wiring, and traveling cables at each elevator. New hydraulic packing seal at the passenger elevator.

d. Fixtures and Finishes: New car and hall fixtures, new cab interiors with stainless steel kick plates, and stainless steel wraps at entrance returns, strikes, and headers. At the service elevator, provide new cartop handrails and sand and refinish the existing cab floor.
e. Pit and Cab Electrical: New LED pit lighting and new cab lighting disconnect at each elevator. Relocate the service elevator pit light switch to a code-compliant location.
f. Fire Alarm Interface: Coordinate with the fire alarm contractor and make all elevator programming changes required for Phase I and Phase II fireman's service recall.
g. Retained Components: All existing components not replaced shall be inspected, refurbished, and returned to proper working order.
h. Permits and Acceptance: Obtain all permits, schedule and attend all State and local inspections, and deliver each elevator fully inspected, certified, and ready for use.
i. Scheduling and Coordination: Modernize one elevator at a time so that at least one elevator remains in service, unless otherwise approved by the Owner and Construction Manager. Coordinate all work, shutdowns, and building access through the Construction Manager.
j. **Related Work by Others:** Relocation of existing machine room piping will be performed by the **Plumbing Contractor**. Relocation of existing machine room electrical equipment will be performed by the **Electrical Contractor**. New feeders, disconnects, and communication lines serving the elevators will be provided by the Electrical Contractor. This Contractor shall identify all required relocations and electrical requirements in writing to the Construction Manager prior to the start of work and shall coordinate the sequence of this work with each trade.

PP. **LANDSCAPING**

1. This Contractor shall provide sod at all disturbed areas, per the specified requirements, once ground disturbing activities are completed on the project. Timing of Sod placement shall be coordinated and agreed upon by This Contractor, Construction Manager, and Owner.
2. **Sitework Contractor** shall provide grading and prepared subgrade/topsoil elevations. This Contractor shall accept the prepared areas and perform final grading and preparation required immediately before sodding.
3. Topsoil material, import, placement, and rough grading shall be provided by **Sitework Contractor**; this Contractor shall coordinate quantities and final preparation required for sodding.
4. This Contractor shall provide fertilizer for sodded areas prior to placement of sod where specified.
5. This Contractor shall provide landscaping maintenance as required by project documents.

QQ. **FENCING & GATES**

1. Where the Sitework Contractor removes existing chain-link fencing for new work, this Contractor shall receive and reinstall salvaged fencing or provide matching replacement components as required to restore a complete fence and gate system. Coordinate timing with adjacent work.
2. This Contractor shall furnish and install decorative metal fencing in accordance with specified tolerances as indicated in the project documents. Where fencing is located at playgrounds, the Contractor shall ensure installation complies with playground-specific requirements, adhering to applicable playground industry guidelines, and shall provide all necessary materials, supports, and anchorage to achieve a complete and compliant installation.
3. This Contractor shall provide chain-link fencing and gates where indicated in the project documents.
4. This Contractor shall provide all drilling, epoxy, and leveling grouting for surface mounted fence posts in accordance with the project documents.

5. This Contractor shall provide egress hardware on decorative fencing in accordance with the project documents.
6. This Contractor shall provide sono-tubes and layout for fence posts sleeves as required.

RR. **SEGMENTED RETAINING WALLS**

1. This Contractor shall provide all delegated design submittals for retaining walls in accordance with the project documents and local approving agencies.
2. This Contractor shall verify retaining wall design / layout with proposed grading to ensure retaining wall base is below proposed grade.
3. The Sitework Contractor shall remove existing segmented retaining walls designated for replacement and deliver salvaged modular blocks in good condition to this Contractor at the work area. This Contractor shall protect salvaged blocks for reuse and provide temporary excavation support required for its retaining-wall installation.
4. This Contractor shall periodically mix salvaged existing modular blocks in good condition with new blocks in the replacement retaining walls as indicated. Damaged blocks shall not be reused.
5. This Contractor shall provide manufactured modular block retaining walls where indicated in the project documents. In addition to modular block wall, retaining wall system scope of work to includes excavation, as required for reinforced backfill zone, excavation for compacted base, compacted base, drainable backfill, and subdrainage systems.
6. This Contractor shall modify / reconstruction existing manufactured modular walls as required for integration of new to existing walls and to match new grades.
7. This Contractor shall modify / remove / replace existing retaining walls to accomodate new utilty runs where required.

1.10 BID PACKAGE 02A - DEMOLITION & ABATEMENT

A. **ALTERNATES**

1. Alternates associated with this Bid Package include the following:
   a. WEH Alternate No. 2 – Area E Multipurpose Room 2700 Renovation – asbestos abatement of floor tile and mastic under full negative-pressure containment; removal of existing VCT, wall base, wall pads, signs, banners, and related selective demolition

B. **ALLOWANCES**

1. Allowances associated with this Bid Package include the following:
   a. None at this time

C. **SPECIFICATIONS**

1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
   a. 014113 – Asbestos Abatement Codes, Regulations and Standards
   b. 014529 – Air Monitoring Test Laboratory Services
   c. 015139 – Temporary Negative Pressure Air Circulation System
   d. 015643 – Temporary Enclosures
   e. 015726 – Decontamination Units
   f. 015733 – Worker Protection
   g. 017333 – Project Decontamination
   h. 017433 – Work Area Clearance
   i. 014529 – Air Monitoring Test Laboratory Services
   j. 015139 – Temporary Negative Pressure Air Circulation System
   k. 015643 – Temporary Enclosures
   l. 015726 – Decontamination Units
   m. 015733 – Worker Protection
   n. 017333 – Project Decontamination
   o. 017433 – Work Area Clearance
   p. 024100 – Demolition

q. 028213 – Removal of Asbestos Containing Materials
r. 028233 – Disposal of Asbestos Containing Waste Materials
s. 028236 – Removal of Class II Asbestos Containing Materials
t. 028400 – Polychlorinated Biphenyls (PCB) Remediation
u. 028410 – Hazardous Waste Management
v. 092119 – Enclosure of Asbestos Containing Materials
w. 099733 – Encapsulation of Asbestos Containing Materials

D. **SCOPE OF WORK GENERAL**

1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.
10. The **Construction Manager** will provide and install scaffolding for all trades use in the Pool area to access overhead work. The Pool scaffold will be provided for access above the pool basin, contractors shall provide lifts for access around the pool deck as required for their work.

E. **SLAB REMOVALS**

1. An estimated slab removal plan is included at the end of this section solely as a bidding and coordination aid. Contractors shall familiarize themselves with the anticipated extents of work; however, all slab removal limits, dimensions, depths, and routing shall be field verified and coordinated with the Awarded Contractors based on actual site conditions and utility routing requirements.
2. The slab removal plan is diagrammatic in nature and is not intended to represent exact field conditions. Variations between the indicated slab removal extents and actual field requirements shall be anticipated by the Contractor and shall not, by themselves, constitute grounds for a change order or additional compensation. Change orders will be considered only for material changes in scope specifically directed in writing by the Owner or Construction Manager and not for discrepancies resulting from actual site conditions, coordination requirements, or final routing determinations.

3. The slab removal plan is diagrammatic in nature and is not intended to represent exact field conditions. Variations between the indicated slab removal extents and actual field requirements shall be anticipated by the Contractor and shall not, by themselves, constitute grounds for a change order or additional compensation. Change orders will be considered only for material changes in scope specifically directed in writing by the Owner or Construction Manager and not for discrepancies resulting from actual site conditions, coordination requirements, or final routing determinations.
4. An estimated slab removal plan is included at the end of this section solely as a bidding and coordination aid. Contractors shall familiarize themselves with the anticipated extents of work; however, all slab removal limits, dimensions, depths, and routing shall be field verified and coordinated with the Awarded Contractors based on actual site conditions and utility routing requirements.
5. The slab removal plan is diagrammatic in nature and is not intended to represent exact field conditions. Variations between the indicated slab removal extents and actual field requirements shall be anticipated by the Contractor and shall not, by themselves, constitute grounds for a change order or additional compensation. Change orders will be considered only for material changes in scope specifically directed in writing by the Owner or Construction Manager and not for discrepancies resulting from actual site conditions, coordination requirements, or final routing determinations.
6. This Contractor is responsible for sawcutting floors and demolishing concrete for plumbing work. **Plumbing Contractor** is responsible for layout, excavation, plumbing work, and backfill of plumbing trenches. **General Trades Contractor** is responsible for concrete pour backs for plumbing trenches.
7. This Contractor shall saw cut and remove existing concrete slab for installation of new underslab electrical work where shown. **Electrical Contractor** is responsible for layout, excavation, electrical work, and backfill of electrical trenches. **General Trades Contractor** is responsible for concrete pour backs for electrical trenches.
8. This Contrator shall remove tile, setting beds, curbs, gutters, and raised slabs down to structural slab. Remove adhesives and mortar residue. Leave slab broom clean.
9. **General Trades Contracto**r shall provide pour backs, infill at removed curbs and raised slabs, patching of voids and damaged slab, and bringing the floor to flat and level (or sloped to drains) within the tolerance specified for the substrate.
10. **Flooring Contractor:** Final surface prep, skim coat, or self-leveler as required by their manufacturer for warranty.

F. **MASONRY OPENINGS**
1. This Contractor shall create new openings in existing masonry walls at locations indicated on the Drawings. Work includes layout, verification of opening sizes and locations against field conditions, saw cutting, removal of masonry units, and cleanup of all resulting debris.
2. Prior to cutting, this Contractor shall scan or otherwise investigate each wall for embedded conduit, piping, reinforcing, bond beams, and other concealed elements. Conflicts shall be reported to the Construction Manager in writing before work proceeds at that location.
3. This Contractor shall design, furnish, install, maintain, and remove all temporary shoring, needling, and bracing required to support existing structure during creation of openings and until permanent lintels or structural supports are installed and capable of carrying design loads. Where required by the Contract Documents or by the nature of the work, temporary shoring shall be designed by a Professional Engineer licensed in the State of Missouri, with signed and sealed drawings submitted prior to installation.
4. This Contractor shall coordinate the sequence of work with the trade responsible for installing permanent lintels and structural supports so that openings are not left unsupported at any time.
5. This Contractor shall furnish, install, maintain, and remove temporary enclosures at all new openings in exterior walls or rated assemblies to maintain weather tightness, security, and separation until permanent construction is complete.

6. This Contractor shall provide dust control and protection of adjacent finishes, equipment, and occupied areas throughout the work.

G. **TILE DEMOLITION AT POOL**
1. This Contractor shall remove existing pool-deck tile up to, but not within, the pool gutter. Work within the pool gutter and pool basin, including tile removal and substrate preparation, is by the Flooring (09B) and Resinous Flooring (09D) Contractors as defined in those Bid Packages.

H. **SELECTIVE DEMOLITION (GENERAL)**
1. This Contractor shall provide dumpsters / waste containers for all demolished and abated materials removed during each phase of construction. All waste shall be disposed of in a lawful manner in accordance with local codes and regulations.
2. Contractors providing dumpsters shall provide recycling manifests to Construction Manager for recycled materials per section 017419 – Construction Waste Management and Disposal.
3. Wallach Iron & Metal Inc. currently handles disposal and recycling of metal materials for Parkway School District. This contractor shall use Wallach for metal recycling.
4. This Contractor shall provide building selective demolition wherever shown, scheduled, or otherwise indicated in the project documents unless specifically assigned to another Bid Package. Review all disciplines for demolition interfaces and required access.
5. This Contractor shall remove all elements within the applicable work area boundaries shown on demolition sheets including but not limited to partitions, built-in casework and fixtures, doors, ceilings and finishes. Structural systems shall remain unless noted otherwise.
6. This Contractor shall remove existing storefront systems, windows, exterior doors, exterior finishes to extent indicated in the project documents. Contractor shall provide and maintain temporary enclosure to maintain building security until final features of work are in place.
7. This Contractor shall remove, salvage, and store all elements within work areas scheduled for re-use wherever shown, scheduled, or otherwise indicated. This Contractor shall provide means of storage for all items scheduled to be salvaged and re-installed.
8. This Contractor shall protect all existing finishes, fixtures, and structures scheduled to remain to prevent damage during the work. Any damage resulting from construction activities shall be repaired to match existing conditions.
9. This Contractor shall leave demolition limits neat, safe, and ready for permanent finishes. Permanent finishes shall be by the Bid Package installing that work, unless specifically assigned otherwise herein.
10. This Contractor shall demolish existing ceiling systems to the extents defined in the project documents and shall coordinate required ACM abatement before disturbance. At WEM, selective ceiling removal required for fire-suppression installation is excluded from the Base Bid and will be performed under an Allowance held by the construction manager.
11. This Contractor shall remove the existing floor finishes and all associated adhesives, leaving the slab broom clean for final preparation by the **Flooring Contractor.**
12. **Each MEP-FP trade** shall be responsible for the complete demolition and removal of their respective systems, including but not limited to all piping, ductwork, cabling, hangers, supports, and accessories. All demolished materials shall be transported and disposed of in dumpsters provided by the Demolition Contractor.
13. Each Contractor shall review MEP demolition sheets to determine quantity of waste generated by MEP trade demolition. Demolition Contractor shall include dumpsters/trash containers and waste hauling for waste generated from MEP demolition as part of the base bid.

14. This Contractor shall remove existing lockers and concrete locker bases down flush with the existing slab where indicated, salvage lockers, and return them to the Owner. Cut anchors and embedded items flush with or below the slab surface and leave the slab broom clean. Slab patching and restoration will be provided by **General Trades.**
15. **Each MEP-FP trade** shall make appropriate disconnections to commercial laundry machines. This Contractor shall remove machines and turn over to Owner.
16. This Contractor shall remove the existing stairs at the pool area in their entirety. This Contractor shall also saw cut and remove existing slab on grade as required for the new footing, foundation, and slab tie-in at the new masonry wall per S3.1. Removal shall be limited to the extent required for the new work. The **General Trades Contractor** shall provide all slab pour backs, concrete tie-ins (including dowels and reinforcing per S3.1), and patching at areas of stair and slab removal as required. The completed work shall match adjacent elevations and finishes.
17. This Contractor shall remove the existing wood gymnasium flooring system in its entirety, including finish flooring, subfloor, sleepers, resilient pads, vapor retarder, wall base, thresholds, and floor plates. This Contractor shall remove all residual adhesives and cut or grind anchors flush with the slab, leaving the substrate broom clean and ready for final floor preparation by others.
18. This Contractor shall remove existing bleachers where indicated.
19. **General Trades Contractor** shall cut existing interior brick as reuqired to achieve 6'-4" rough opening for new door C1O.
20. At WEH Door 1601, this Contractor shall abate the regulated exterior louver caulking, carefully remove and salvage the louver for return to Parkway, and install and maintain the required plywood hard barrier at the opening.
21. At WEH, this Contractor shall remove existing gypsum bulkheads and soffits in their entirety at the pool S1P and S1Q stair transitions as required for new CMU walls extending to deck (AD4.1B Keynote 0229).
22. This Contractor shall remove wall tile and gypsum board from existing framing where indicated. Contractor shall take care to maintain the integrity of existing framing.
23. This Contractor shall grind existing epoxy floor surface where indicated and leave the slab broom clean for final preparation by the **Applicable Flooring Contractor.**
24. This Contractor shall remove paint from existing flooring where indicated and leave the slab broom clean for final preparation by the **Applicable Flooring Contractor.**

I. **ABATEMENT**

1. The Asbestos Abatement Contractor shall provide all labor, materials, equipment, supervision, and incidentals necessary to perform asbestos abatement in accordance with project documents, applicable regulations, and industry standards. Work shall include, but is not limited to, the removal, handling, transportation, and disposal of asbestos-containing materials (ACM) as identified in the project documents and reports prepared by the Owner's third-party environmental consultant.
2. This Contractor shall provide PCB remediation and non-asbestos hazardous-waste management required by Sections 028400 and 028410, including segregation, packaging, labeling, transport, manifests, and lawful disposal of regulated materials generated by demolition.
3. This Contractor shall perform all abatement in accordance with each site's Project Information Form, Owner-provided hazardous-material drawings, and applicable Project Manual requirements.
4. This Contractor shall perform abatement required where MEP-FP work disturbs identified or suspected ACM. MEP-FP contractors shall lay out and mark hanger, sprinkler, penetration, and equipment locations before abatement.
5. This Contractor shall provide sufficient resources, including shift work and overtime, as required to meet the allowed phase durations to meet the phase durations in the applicable project schedule**.**

6. This Contractor shall review the Construction Progress Schedule and Phasing Plans included in the bid documents and shall include all mobilizations, demobilizations, and containment setups required to perform the abatement work in accordance with the phasing sequence. This Contractor shall plan and establish containments by phase and area as required to allow adjacent areas to remain occupied or under construction by other trades.
7. At WEH, all abatement work scheduled during periods when school is in session shall be performed outside of normal student occupancy hours. Work shall be conducted during evenings, nights, weekends, or other approved off-hours when students are not present within the building. This Contractor shall thoroughly review the project schedule and include all necessary shift work, labor premiums, supervision, containment, and coordination required to complete the work in accordance with these occupancy restrictions.
8. This Contractor shall perform all work in strict accordance with Missouri Department of Natural Resources (MoDNR), U.S. EPA (NESHAP), OSHA asbestos standards, and applicable St. Louis County requirements.
9. This Contractor shall coordinate all activities with the Owner's environmental consultant and Construction Manager.
10. This Contractor shall provide a competent person/supervisor licensed by the State of Missouri at all times during abatement activities.
11. This Contractor shall maintain proper site controls, including regulated areas, signage, and worker protection measures.
12. This Contractor shall prepare and submit all required asbestos abatement notifications to the Missouri Department of Natural Resources (MoDNR).
13. This Contractor shall provide copies of all notifications, revisions, and approvals to the Owner and Construction Manager.
14. This Contractor shall coordinate with local agencies, where applicable, for additional permitting requirements.
15. This Contractor shall post required permits and notifications on-site at all times.
16. This Contractor shall package, label, transport, and dispose of ACM waste in accordance with all federal, state, and local regulations.
17. This Contractor shall establish containment systems (critical barriers, negative air pressure, decontamination units) as required by project documents.
18. This Contractor shall perform removal, encapsulation, or disturbance of ACM strictly per specified methods.
19. This Contractor shall maintain negative pressure and proper filtration throughout the abatement process.
20. This Contractor shall conduct daily cleaning and maintain its work areas in compliance with regulatory standards.
21. At WEH, this Contractor shall abate the ACM identified in the Project Information Packet, including floor tile and mastic, acoustical and drywall ceilings, pipe-insulation fittings, speaker/clock mastic, mirror and wallboard adhesives, sink undercoating, fire doors, regulated caulking, and vermiculite at doors and windows. Include required containments, cleanup, coordination with Parkway's representative for visual inspection and clearance sampling, transport, and disposal.
22. At WEM, this Contractor shall abate asbestos-containing joint compound at drywall walls and ceilings where hangers and sprinklers are planned, using localized mini-containments and all required cleaning, inspection, clearance coordination, transport, and disposal.
23. This contractor shall demolish the identified lead-based-paint ceramic tile walls where indicated.
24. This Contracotr shall remove existing toilet partitions. Contractor shall remove and salvage partition mounted accessories and turn salvaged materials over to the Construction Manager.

25. This Contractor shall provide approved filters at all floor drains affected by work areas during ACM removal.
26. At WEH Door C1O and Windows C1M and C1N, this Contractor shall remove the indicated frames and abate vermiculite released from the CMU, including HEPA vacuuming accessible cavities and sealing gaps or openings as required by the Project Information Packet.

1.11 BID PACKAGE 04A - MASONRY

A. **ALTERNATES**
1. Alternates associated with this Bid Package include the following:
   a. None at this time

B. **ALLOWANCES**
1. Allowances associated with this Bid Package include the following:
   a. None at this time

C. **SPECIFICATIONS**
1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
   a. 040100 – Maintenance of Masonry
   b. 040511 – Masonry Mortaring and Grouting
   c. 042000 – Unit Masonry

D. **SCOPE OF WORK GENERAL**
1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.
10. The **Construction Manager** will provide and install scaffolding for all trades use in the Pool area to access overhead work. The Pool scaffold will be provided for access above the pool basin, contractors shall provide lifts for access around the pool deck as required for their work.

E. **MASONRY GENERAL**

1. This Contractor shall provide, maintain, and remove mason area, including lined wash-out container, in accordance with EPA guidelines and prevent ground contamination. This contractor shall return existing subgrade at masons area to original condition at completion of the work.
2. This Contractor shall provide temporary bracing of masonry walls to resist lateral loads during construction as required by current building standards and Construction Manager's Safety Program.
3. This Contractor shall provide protection of masonry from freezing when surrounding air temperatures is 40 degrees Fahrenheit and falling. Protection of masonry from freezing shall be provided at no additional cost to the Owner.
4. All masonry work shall be placed within specified tolerances as outlined in the project documents.
5. Contractor shall take appropriate measures to prevent grout, mortar and soil from staining the face of masonry units.
6. This Contractor shall provide all masonry cleaning activities as specified.

F. **NEW OPENINGS**

1. **Patching of New Openings:** This Contractor shall patch and repair all new openings in existing masonry walls created by the **Selective Demolition Contractor**. Include removal of additional masonry as required to tooth in new units; replacement of broken units at jambs, heads, and sills; and new matching masonry, mortar, reinforcing, ties, flashing, and weeps required for a complete opening. Match adjacent unit size, color, texture, bond, joints, and mortar.
2. At WEH, coordinate masonry repairs at affected door and window openings with the **Demolition and Abatement Contractor**'s removal and clearance of vermiculite insulation within the CMU. Do not disturb suspected vermiculite-containing material.
3. **Installation of Loose Lintels:** This Contractor shall receive, unload, store, and install all loose steel lintels furnished by the **General Trades Contractor** at new and existing masonry openings as indicated on the Drawings. Work includes setting lintels level and plumb with required bearing lengths at each end, grouting and shimming bearing surfaces, installing flashing and weeps at lintels in exterior walls, and coordinating installation sequence with the **Selective Demolition Contractor** so that temporary shoring is not removed until lintels are fully installed and bearing.
4. At openings in new masonry, this contractor shall furnish, install, maintain, and remove blockouts and temporary bracing required until lintels and bond beams are in place and capable of carrying design loads.
5. This Contractor shall maintain position, plumbness, and integrity of blockouts and shoring during masonry unit placement, and remove upon completion.
6. Temporary shoring at new openings in existing masonry walls will be provided by the **Selective Demolition Contractor**. Coordinate installation sequence so that shoring is not removed until lintels are fully installed and bearing.

G. **MASONRY**

1. This Contractor shall provide all concrete masonry unit (CMU) and face brick assemblies shown, scheduled, or otherwise indicated in the Contract Documents.
2. At WEH, provide reinforced and grouted CMU wall infills and full-height CMU transitions indicated at the pool locker room and stair areas, including dowels, bond beams, reinforcement, grout, and connections to existing construction.
3. At WEM, provide brick and CMU infill and patching at wall openings affected by the Work, including reuse of salvaged non-defective brick where indicated.
4. At WEH, coordinate CMU wall construction with the General Trades Contractor, who furnishes and installs the head-of-wall bracing angles, bridging steel, and anchors at existing waffle slabs. Sequence the work so walls are braced as required by the details.

5. This Contractor shall protect adjacent walls, slabs, and finishes from mortar and damage during installation, and shall clean all CMU and affected adjacent surfaces upon completion, including removal of excess mortar and debris.
6. This Contractor shall provide interior CMU partitions where indicated, including vertical and horizontal reinforcing, grout, and drilled and epoxied dowels into slabs on grade and existing construction where required.
7. This Contractor shall form control joints and expansion joints at the locations and widths indicated, and shall leave all joints at masonry interfaces clean, free of mortar, and ready to receive sealant. Joint sealants are provided by the General Trades Contractor.
8. This Contractor shall grout hollow metal frames set in masonry walls.
9. This Contractor shall install anchor bolts and embeds for structural steel where shown to be grouted into masonry. Anchor bolts and embeds shall be furnished by the Structural Steel Fabricator.
10. This Contractor shall provide bullnose corners at existing masonry outside corners exposed by removals, where indicated, by cutting and grinding or by replacing units with bullnose units as required to match new work.
11. This Contractor shall construct CMU walls adjacent to Type M and Type N partitions to the dimensions and tolerances indicated. The finished face of CMU establishes the reference for the gypsum board projection at these locations. Coordinate CMU face locations with the Drywall Contractor prior to framing layout.
12. Gypsum board, framing, infill between waffle slab ribs, and trim at the CMU transition at Type M and Type N partitions are provided by the **Drywall Contractor.**

1.12 BID PACKAGE 09A - METAL STUDS / DRYWALL / CEILINGS

A. **ALTERNATES**
1. Alternates associated with this Bid Package include the following:
   a. None at this time

B. **ALLOWANCES**
1. Allowances associated with this Bid Package include the following:
   a. None at this time

C. **SPECIFICATIONS**
1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
   a. 092116 – Gypsum Board Assemblies
   b. 095100 – Acoustical Ceilings

D. **SCOPE OF WORK GENERAL**
1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.

7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.

E. **INSULATION**
1. This Contractor shall provide all building insulation indicated in the project documents, except roof insulation (General Trades) and piping, duct, and equipment insulation provided by the MEP Bid Packages.
2. This Contractor shall provide batt insulation materials including glass fiber batt insulation and mineral fiber batt insulation wherever shown, scheduled, or otherwise indicated in the documents.
3. This Contractor shall provide sound-attenuation insulation within gypsum board assemblies where shown, scheduled, or required by the specified assembly.
4. This Contractor shall provide all spray foam insulation wherever shown, scheduled, or otherwise indicated in the documents unless specified otherwise.
5. At walls extending to metal deck, gypsum board shall be scribed to follow the deck profile. This Contractor shall fill all voids at the top of track and within deck flutes with mineral wool insulation packed tight to the deck, and seal the head joint airtight with acoustical sealant.

F. **GYPSUM BOARD ASSEMBLIES**
1. This Contractor shall be responsible for layout of all partitions installed under this scope of work.
2. This Contractor shall provide all nonstructural metal framing and cold-formed structural stud framing, tracks, connectors, bracing, engineering, and accessories wherever indicated.
3. This Contractor shall provide light-gage metal framing, clips, and bracing required for bulkheads and framed walls. Shop-fabricated structural steel angles are provided by the General Trades Contractor.
4. Contractor shall fasten both flanges of studs to top and bottom tracks.
5. This Contractor shall provide two (2) continuous beads of sealant at the underside of wall bottom track or trim track at the top of foundation wall or slab at stud or joist locations.
6. This Contractor shall provide suspension systems for interior ceilings and soffits to receive drywall where indicated.
7. Contractor shall coordinate wall framing with others for recessed wall mounted items (i.e. fire extinguisher cabinets, paper towel dispensers/trash cans, etc.) for rough opening sizes.
8. This Contractor shall frame and finish openings required for access panels in gypsum board and ceiling assemblies and coordinate with the General Trades Contractor, who provides the access panels.
9. This Contractor shall provide all gypsum board sheeting of scheduled type (Regular, X, C, Abuse, etc.) wherever specified.
10. This Contractor shall provide mold and mildew resistant gypsum board within all restroom and plumbing chase partitions as outlined within the construction documents.
11. This Contractor shall provide cementitious backer board at tiling wherever shown, scheduled, or otherwise indicated in the project documents.

12. This Contractor shall provide all drywall to specified level of finish (1-5) as indicated.
13. This Contractor shall provide acoustical joint sealants for gypsum partitions, ceilings, and soffits as required.
14. This Contractor shall provide drywall control joints as the construction documents indicate or at uninterrupted walls over 30ft or ceilings over 50ft.
15. This Contractor shall provide expansion joints at interior drywall partitions, ceilings, and soffit conditions.
16. This Contractor shall permanently identify all fire rated partitions with signs or stencils in accordance with the Building Code.
17. This Contractor shall patch existing drywall systems at window and door replacements as required.
18. At Type M partitions, this Contractor shall provide Type B partition construction, scribed and infilled between waffle slab ribs to the underside of the slab.
19. At Type N partitions, this Contractor shall provide Type J partition construction plus one additional layer of Type X gypsum board on each side, scribed and infilled between waffle slab ribs to the underside of the slab.
20. At Type M and Type N partitions, this Contractor shall select stud depth so that the finished face of gypsum board sits proud of the finished face of adjacent CMU. Field verify CMU face locations prior to layout of framing.
21. This Contractor shall provide all framing, blocking, and backing required to support gypsum board infill between waffle slab ribs, including cutting and fitting of track and studs to the rib profile.
22. This Contractor shall provide trim at the gypsum board to CMU transition and sealant at the transition joint.
23. Where Type M or Type N partitions are fire-rated or smoke-rated, this Contractor shall provide the complete UL-listed head-of-wall joint system at the waffle slab, including firestopping of voids between ribs.

G. **CEILINGS**

1. This Contractor shall take care not to markup adjacent walls during installation of ceiling panels. Any wall cleaning/patching/painting required because of markings on walls from ceiling pad installation will be the responsibility of the Drywall Contractor.
2. This Contractor shall provide all new and replacement acoustical tile ceiling systems, including suspension grid, ceiling tile, perimeter moldings, hangers, seismic bracing, and accessories where indicated.
3. This Contractor shall re-install acoustical tile ceiling systems removed for new work as indicated, except where assigned to another Bid Package. At WEM, the Base Bid includes new ACT-1 ceilings where entire ceilings are scheduled for replacement and new ceiling panels in corridors. Selective removal, storage, and reinstallation of existing lay-in tile and grid for fire-suppression installation, and replacement of damaged existing tile or grid, are performed under the Construction Manager's Allowance.
4. This Contractor shall replace gypsum board ceilings removed for new work as indicated in the project documents. **Selective removal and replacement of existing gypsum board ceilings for overhead work not defined in the project documents is required but is not included in the Base Bid. This work will be authorized by Change Order funded from an CM-held allowance.**
5. This Contractor shall provide all gypsum board ceilings, soffits, bulkheads, seismic reinforcing as required.
6. This Contractor shall provide pre-manufactured interior ceiling expansion joint systems where indicated.
7. This Contractor shall provide acoustical joint sealants for ceiling systems as required.
8. This Contractor shall provide attic stock material for acoustical ceilings as required by project documentation.

1.13 BID PACKAGE 09B - FLOORING

A. **ALTERNATES**

1. Alternates associated with this Bid Package include the following:
    a. WEH Alternate No. 1 – Pool Gutter Tile (tile and grout at pool gutter in lieu of Base Bid coating, including gutter tile removal, substrate preparation, setting materials, grout, trims, markings, and drain-cover coordination)
    b. WEH Alternate No. 2 – Area E Multipurpose Room 2700 Renovation – RF-5 resilient athletic flooring, WB-1 wall base, TS-3 transitions, substrate preparation, adhesives, trims, and accessories

B. **ALLOWANCES**

1. Allowances associated with this Bid Package include the following:
    a. None at this time

C. **SPECIFICATIONS**

1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
    a. 090561 – Common Work Results for Flooring Preparation
    b. 093000 – Tiling
    c. 096500 – Resilient Flooring
    d. 096510 – Resilient Luxury Vinyl Tile Flooring
    e. 096566 – Resilient Athletic Flooring
    f. 096813 – Tile Carpeting

D. **SCOPE OF WORK GENERAL**

1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.

E. **FLOOR PREPARATION**

1. This Contractor shall provide testing of substrates prior to commencement of work to determine existing condition of substrate for acceptance of flooring material.

2. This Contractor shall provide all floor prep prior to installation of flooring. Floors shall be broom swept by Others prior to floor preparation; all other prep required shall be performed by this Contractor.
3. This Contractor shall provide all common work floor preparation required for the installation of flooring types included in this bid package including removal of high spots and/or filling depressions up to +/-[1/4] inch.
4. This Contractor shall patch and repair existing flooring at door replacements where indicated, flooring material provided by Owner, adhesives to be contractor furnished.

F. **POOL TILE DEMOLITION AND PREPARATION INTERFACE**
1. The **Demolition & Abatement Contractor** shall remove existing pool-deck tile up to, but not within, the pool gutter.
2. This Contractor shall perform tile removal, substrate preparation, and new tile installation within the pool basin and, where Alternate No. 1 is accepted, the pool gutter. Preparation of the pool gutter for the Base Bid Ramuc coating is by the Resinous Flooring Contractor.
3. This Contractor shall

G. **TILING**
1. This Contractor shall provide porcelain and ceramic tile flooring, trims, and accessories wherever indicated.
2. This Contractor shall provide wall tile, trims, and accessories, wherever shown, scheduled, or otherwise indicated in the project documents.
3. This Contractor shall provide all setting materials, mortar, grout, and accessories required to complete the tiling scope of work.
4. This Contractor shall provide all non-ceramic tile trims where indicated.
5. This Contractor shall provide all stone thresholds where required.
6. This Contractor shall provide all grout sealers where required.
7. At WEH, this Contractor shall provide tile and grout at the pool gutter only when Alternate No. 1 is accepted.
8. At WEH, this Contractor shall provide spot removal and replacement of damaged/broken pool tile throughout to match existing, including setting materials and grout.
9. At WEH, this Contractor shall acid wash and regrout the existing pool basin; if the existing grout cannot be matched, notify the Owner and Architect before proceeding.
10. At WEH, this Contractor shall provide contrasting tile band around pool drain as required by applicable codes.

H. **RESILIENT FLOORING ACCESSORIES**
1. This Contractor shall provide resilient wall base and accessories where indicated.
2. This Contractor shall provide all flooring transition strips and accessories where required.

I. **RESILIENT FLOORING**
1. This Contractor shall provide high moisture adhesives up to 98% RH.
2. This Contractor shall provide all luxury vinyl tile (LVT) flooring, and all other necessary components for complete installation where indicated.
3. This Contractor shall provide all vinyl composite tile (VCT) flooring, and all other necessary components for complete installation where indicated.
4. This Contractor shall provide all resilient tile and sheet flooring trims and accessories as required.
5. This Contractor shall provide specified floor finish at elevators where indicated.
6. This Contractor shall provide initial maintenance for LVT flooring where specified.
7. At locations where resilient flooring is being patched or abuts to existing flooring, this Contractor shall provide additional flooring removals as required for a seamless transition from existing flooring to new flooring.

J. **RESILIENT ATHLETIC FLOORING**

1. At WEH, this Contractor shall provide RF-5 cushioned resilient athletic sheet flooring at Multipurpose Room 2700 only when the Area E Alternate is accepted, including adhesives, trims, transitions, and accessories required for each complete system.
2. At WEH, this Contractor shall provide RF-2 resilient athletic flooring at cardio room including adhesives, trims, transitions, and accessories required for each complete system.
3. Provide resilient athletic flooring system (rolled or tile, per specification) at all gymnasium/athletic areas indicated in the project documents, including adhesives, seam sealers, and installation accessories per manufacturer's requirements
4. Provide underlayment/subfloor preparation as required by manufacturer, including moisture testing and vapor mitigation measures if substrate conditions warrant
5. Provide game line striping per athletic layout drawings, including multi-sport line packages, graphics, and logos where indicated
6. Field verify substrate flatness, moisture content, and levelness tolerances per manufacturer's requirements prior to installation; notify Construction Manager of substrate deficiencies requiring correction by others prior to proceeding
7. Provide protection of installed flooring from other trades through Substantial Completion, including temporary covering during subsequent construction activity

K. **TILE CARPETING**

1. This Contractor shall provide all carpet tile flooring, adhesives and all other necessary components for complete installation wherever indicated.
2. This Contractor shall provide walk-off carpet tile flooring, adhesives, and all other necessary components where indicated.
3. At locations where carpet tile flooring is being patched or abuts to existing flooring, this Contractor shall provide additional flooring removals as required for a seamless transition from existing flooring to new flooring.

1.14 BID PACKAGE 09D - RESINOUS FLOORING

A. **ALTERNATES**

1. Alternates associated with this Bid Package include the following:
   a. WEH Alternate No. 1 – Pool Gutter Tile (deduct: omit the Base Bid Ramuc RF-6/RF-7 coating at the pool gutter where replaced by tile)

B. **ALLOWANCES**

1. Allowances associated with this Bid Package include the following:
   a. None at this time

C. **SPECIFICATIONS**

1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
   a. 096700- Fluid-Applied Flooring

D. **SCOPE OF WORK GENERAL**

1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.

5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.

E. **FLOOR PREPARATION**
1. This Contractor shall provide testing of substrates prior to commencement of work to determine existing condition of substrate for acceptance of flooring material.
2. This Contractor shall provide all floor prep prior to installation of flooring. Floors shall be broom swept by Others prior to floor preparation; all other prep required shall be performed by this Contractor.
3. This Contractor shall provide all common work floor preparation required for the installation of flooring types included in this bid package including removal of high spots and/or filling depressions up to +/-[1/4] inch.
4. This Contractor shall provide trowelable leveling and patching compound as required.
5. This Contractor shall include high moisture adhesive/moisture mitigating procedure to install flooring up to 98% relative humidity in the Base Bid.
6. Upon completion of the work, contractor shall immediately remove adhesive and other blemishes from exposed surfaces, thoroughly sweep and vacuum the surfaces, and damp-mop them to remove marks and soil.
7. This Contractor shall provide specified attic stock for products installed under this scope of work.

F. **FLUID-APPLIED FLOORING**
1. This Contractor shall provide all specified fluid-applied resinous flooring systems and integral cove base, including primers, body coats, broadcast media, topcoats, and sealers required for complete systems. At WEH, this includes RF-1 and RF-3 fluid-applied flooring and base (including RF-1 at indicated stair treads and risers) and the Base Bid RF-6/RF-7 Ramuc pool-gutter coating, including surface preparation and patching/repair of the gutter substrate (Keynote O324).
2. This Contractor shall provide cant strips and resinous-flooring accessories required to form integral cove base where indicated.
3. Provide slab preparation and moisture mitigation for slab relative humidity (RH) up to 98%, including all primers, moisture vapor barrier/mitigation coatings, and testing required to achieve manufacturer's warranty conditions
4. Provide existing slab preparation as required by fluid applied flooring manufacturer for complete installation of flooring system, including mechanical profiling (shot blast/grind), crack repair/routing, and patching of surface defects
5. Provide relative humidity and pH testing of concrete substrate per ASTM F2170/F710 prior to installation; notify Construction Manager of results outside manufacturer's acceptable range prior to proceeding
6. This Contractor shall provide resinous-floor edge terminations and control/expansion-joint treatments required by the flooring manufacturer.

7. Protection of installed flooring shall be provided by **General Trades Contractor.**
8. Coordinate installation sequencing and required cure/ventilation time with other trades to avoid conflicts with adjacent finish work and building occupancy schedule
9. Maintain manufacturer-required ambient temperature, humidity, and substrate temperature (including dew point monitoring) during installation and cure

1.15 BID PACKAGE 21A – FIRE SUPPRESSION

A. **ALTERNATES**
1. Alternates associated with this Bid Package include the following:
   a. None at this time

B. **ALLOWANCES**
1. Allowances associated with this Bid Package include the following:
   a. None at this time

C. **SPECIFICATIONS**
1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
   a. 210500 – Common Work Results for Fire Suppression
   b. 210523 – General-Duty Valves for Water-Based Fire-Suppression Piping
   c. 210548 – Vibration and Seismic Controls for Fire Suppression Piping and Equipment
   d. 210553 – Identification for Fire Suppression Piping and Equipment
   e. 211200 – Fire-Suppression Standpipes
   f. 211300 – Fire-Suppression Sprinkler Systems

D. **SCOPE OF WORK GENERAL**
1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.

10. The **Construction Manager** will provide and install scaffolding for all trades use in the Pool area to access overhead work. The Pool scaffold will be provided for access above the pool basin, contractors shall provide lifts for access around the pool deck as required for their work.

E. **FIRESTOPPING**

1. Each Contractor that penetrates a fire-rated or smoke-rated wall, floor, or ceiling assembly shall firestop its own penetrations using a UL listed firestopping system appropriate for the penetrating item and the rated assembly. Firestopping shall restore the full rating of the assembly and shall be installed per the manufacturer's listing. Each Contractor shall submit its UL system details for review, and shall coordinate its firestopping products and systems with the General Trades Contractor to ensure compatibility with the overall project firestopping systems.
2. This Contractor shall provide UL listed firestopping at all penetrations made by this Contractor through fire-rated and smoke-rated assemblies, including new penetrations and existing penetrations modified or reused by this Contractor. Firestopping of rated wall joints, head of wall conditions, and all other firestopping not associated with trade penetrations will be provided by the General Trades Contractor. This Contractor shall coordinate its firestopping systems with the General Trades Contractor to ensure compatibility and compliance with the overall firestopping requirements.

F. **FIRE SUPPRESSION DEMO**

1. Each Contractor shall review MEP-FP demolition sheets to determine quantity of waste generated by MEP-FP trade demolition. **Demolition & Abatement** shall include dumpsters/trash containers and waste hauling for waste generated from MEP-FP demolition as part of the base bid.
2. This Contractor shall perform complete demolition and removal of existing fire-suppression piping, hangers, supports, valves, and accessories indicated for demolition, and shall transport demolished materials to dumpsters provided by the **Demolition & Abatement .**
3. This Contractor shall demolish the existing fire-service backflow preventer and fire-service piping to the indicated flange; the existing domestic-water service shall remain.

G. **FIRE SUPPRESSION**

1. This Contractor shall provide a fully code-compliant wet-pipe sprinkler system, including all labor, materials, hydraulic calculations, and equipment necessary for installation, coordination, and continuous operation, in accordance with NFPA 13 and project documents. The Contractor shall complete a delegated design, delivering all required documentation to local jurisdictions and ensuring compliance with the Authority Having Jurisdiction
2. At WEH, this Contractor shall remove, salvage, and reinstall existing fire-protection devices only where required by architectural ceiling demolition and patching, returning devices to their documented existing locations. No new fire-suppression system is indicated at WEH.
3. At ECC, this Contractor shall protect existing sprinkler piping and heads to remain and relocate existing sprinkler heads at acoustical-ceiling demolition areas indicated by AD4.1 Keynotes O262 and O272. Coordinate final head locations with the new ceilings.
4. This Contractor shall obtain static/residual pressure test information to hydraulically calculate sprinkler system. If re-testing is required, Contractor shall provide testing as part of the base bid.
5. The limited space for MEP/FP (HVAC, Electrical, Plumbing, and Fire Protection) work above suspended ceilings requires precise coordination among bid package contractors, who must review Architectural, Structural, Mechanical, and Electrical drawings before fabrication or installation. Ductwork shall be hung as close as possible to the structure above unless otherwise specified, and any rework due to poor planning, coordination, or scheduling shall be the responsibility of the negligent contractor.

6. This Contractor shall coordinate sprinkler piping elevations, routing, and head locations with structure, ceilings, lights, ductwork, piping, and the phased project schedule; provide coordinated layout/shop drawings before fabrication and do not sleeve or penetrate structural members unless specifically detailed and approved.
7. This Contractor shall provide detailed coordination drawings to all trades for coordination of ceilings, ductwork, piping, and lighting layouts.
8. At WEM, this Contractor shall connect to the existing fire service and provide the complete new fire-service entrance assembly, including the RPZ backflow preventer, supervised valves, relief drain, zone-control and flow-switch assemblies, and zoned riser manifold indicated in project documents. Include all testing, flushing, certification, and coordination required for a complete operational system.
9. At WEM, sequence demolition, shutdowns, and new work to maintain active fire-protection systems serving occupied areas until replacement systems are complete and ready for service. Coordinate all outage notices and approvals with the Owner, Construction Manager, and Authority Having Jurisdiction.
10. This Contractor shall provide backflow preventers for fire suppression systems where indicated or required.
11. This Contractor shall provide and install all necessary seismic reinforcement for fire protection system as required by NFPA 13 and in accordance with project documents.
12. This Contractor shall provide all vibration isolation controls for fire suppression system wherever shown, scheduled, or otherwise required by the project documents in accordance with specifications.
13. This Contractor shall render any passage of piping through exterior walls and roof permanently watertight.
14. This Contractor shall furnish and install all water flow indicators, pressure switches, valve supervisory switches, tamper switches and all indicating valves as per NFPA 13 requirements. **Electrical Contractor** shall provide rough-in, wiring, and program integration for all fire monitoring and alarm devices.
15. **This Contractor** shall bag and protect new sprinkler heads installed at exposed ceilings scheduled to be painted.
16. This Contractor shall deliver piping to jobsite at central location to be painted on the ground by General Trades Contractor.
17. This Contractor shall provide all extra materials per specifications.
18. This Contractor shall provide mechanical sleeves and mechanical sleeve seals, including fire rated sleeves and seals, wherever shown, scheduled, or otherwise required for fire suppression system penetrations.
19. Any Contractor requiring an access panel not explicitly shown in the project documents shall furnish and install access panels of sufficient size to ensure proper access, with each panel appropriately rated to match the fire or performance rating of the assembly in which it is installed.
20. At WEM, this Contractor shall provide the new remote free-standing fire department connection, including galvanized piping, supports at the existing retaining wall, automatic ball drip, signage, and connection to the new riser assembly indicated.

H. **RETROFIT HOSE CABINETS**

1. This Contractor shall demolish existing piping and hose valves serving existing hose cabinets and retrofit the cabinets to accept new standpipe valves as indicated.
2. **Drywall Contractor** shall patch/repair existing gypsum board at retrofit cabinets.
3. **General Trades Contractor** shall repaint walls at retrofit cabinets from corner to corner.

1.16 BID PACKAGE 22A – PLUMBING SYSTEMS

A. **ALTERNATES**

1. Alternates associated with this Bid Package include the following:
   a. None at this time

B. **ALLOWANCES**

1. Allowances associated with this Bid Package include the following:
    a. None at this time

C. **SPECIFICATIONS**

1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
    a. 220523 – General-Duty Valves for Plumbing Piping
    b. 220548 – Vibration and Seismic Controls for Plumbing Piping and Equipment
    c. 220553 – Identification for Plumbing Piping and Equipment
    d. 220719 – Plumbing Piping Insulation
    e. 221005 – Plumbing Piping
    f. 221006 – Plumbing Piping Specialties
    g. 224000 – Plumbing Fixtures

D. **SCOPE OF WORK GENERAL**

1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.
10. The **Construction Manager** will provide and install scaffolding for all trades use in the Pool area to access overhead work. The Pool scaffold will be provided for access above the pool basin, contractors shall provide lifts for access around the pool deck as required for their work.
11. This Contractor shall coordinate all plumbing shutdowns with the Owner and **Construction Manager**, provide temporary bypass piping and isolation valves as required, perform shutdown work after hours when directed, and give a minimum of [14] days' advance notice of service interruptions.
12. This Contractor shall document existing DHW-recirculation pressure, flow, and temperature before work; locate the existing pumps and balancing valves; perform final testing and balancing of the DHWR system serving renovated areas

E. **FIRESTOPPING**

1. Each Contractor that penetrates a fire-rated or smoke-rated wall, floor, or ceiling assembly shall firestop its own penetrations using a UL listed firestopping system appropriate for the penetrating item and the rated assembly. Firestopping shall restore the full rating of the assembly and shall be installed per the manufacturer's listing. Each Contractor shall submit its UL system details for review, and shall coordinate its firestopping products and systems with the General Trades Contractor to ensure compatibility with the overall project firestopping systems.
2. This Contractor shall provide UL listed firestopping at all penetrations made by this Contractor through fire-rated and smoke-rated assemblies, including new penetrations and existing penetrations modified or reused by this Contractor. Firestopping of rated wall joints, head of wall conditions, and all other firestopping not associated with trade penetrations will be provided by the General Trades Contractor. This Contractor shall coordinate its firestopping systems with the General Trades Contractor to ensure compatibility and compliance with the overall firestopping requirements.

F. **PLUMBING DEMOLITION**

1. Each MEP-FP Contractor shall be responsible for the complete demolition and removal of their respective systems, including but not limited to all fixtures, piping, ductwork, cabling, hangers, supports, and accessories. All demolished materials shall be transported and disposed of in dumpsters provided by the **Demolition & Abatement Contractor** unless noted otherwise herein.
2. All demolished metal materials resulting from this contractor's work, including but not limited to piping, fittings, valves, supports, equipment appurtenances, and miscellaneous ferrous and non-ferrous metals, shall be removed from the work area and placed in designated recycling containers furnished by the Demolition & Abatement Contractor.
3. This Contractor shall disconnect, remove, and dispose of plumbing fixtures indicated for demolition and shall protect and deliver items selected by the Owner for salvage or reuse to Construction Manager.
4. This contractor shall temporarily cap/plug piping for connection of new work as required.
5. This Contractor shall trace existing systems; remove abandoned domestic water, sanitary, vent, and associated supports back to the nearest active main or branch main; cap or reconnect as indicated; and maintain the integrity and continuous operation of systems serving existing-to-remain fixtures.
6. This Contractor shall remove existing floor drains, shower trench drains, and associated waste piping where indicated on the PD-series sheets; cap below slab or extend for new work as specifically shown, and maintain all remaining sanitary piping.
7. This Contractor shall remove abandoned piping below the new ceiling elevations whether or not every segment is drawn.
8. This Contractor shall remove the existing hot-water heater identified in Area A, protect it, and store it at the location directed by the Owner for Owner reuse. **Mechanical Contractor** remains responsible for gas piping and venting unless the CM revises that interface.
9. At WEH, this Contractor shall remove pool-deck washing hydrants indicated for removal, trace and remove their water lines back to the active branch, and cap at that branch; remove and replace hydrants indicated for replacement. Coordinate associated deck patching with the General Trades Contractor.
10. This Contractor shall remove existing pool-deck floor-drain grates and provide new grates, retaining the existing drain bodies.
11. This Contractor shall field verify existing service arrangements; maintain active systems serving occupied or out-of-scope spaces; obtain **Construction Manager** and Owner approval for outages; remove abandoned pipe, equipment, hangers, and supports back to source where practical; otherwise cap and permanently identify; and protect or salvage items indicated for Owner retention. No plumbing demolition within regulated abatement areas shall begin before abatement clearance and **Construction Manager** release.

G. **SLAB REMOVALS**

1. **Demolition & Abatement Contractor** shall saw-cut and remove concrete slabs for underground plumbing. This Contractor shall lay out slab cuts and perform trench excavation, bedding, backfill, compaction, and spoil haul-off. **General Trades Contractor** shall provide concrete slab pourback.

H. **PLUMBING GENERAL**

1. The limited space for MEP/FP (HVAC, Electrical, Plumbing, and Fire Protection) work above suspended ceilings requires precise coordination among bid package contractors, who must review Architectural, Structural, Mechanical, and Electrical drawings before fabrication or installation. Ductwork shall be hung as close as possible to the structure above unless otherwise specified, and any rework due to poor planning, coordination, or scheduling shall be the responsibility of the negligent contractor.
2. Contractor shall patch existing walls to match existing finish at new penetrations created under this scope of work. Patchwork to include any required joint sealants/fire rated sealants to match/maintain partition type/function.
3. This Contractor shall be responsible for all Plumbing Systems work shown on drawings, drawing notes, and specifications within the project documents unless specified otherwise in this section.
4. This Contractor shall provide all required insulation and identification for piping installed under this scope of work.
5. This Contractor shall provide all hangers, supports, anchors, and seismic restraints required for Division 22 piping and equipment, including delegated-design/shop drawings where required, in accordance with project documents.
6. This Contractor shall render any penetrations through exterior walls and roofs permanently watertight.
7. This Contractor shall extend domestic water, sanitary, vent, and indirect-waste piping and make final plumbing connections to the new plumbing fixtures and equipment.
8. Any Contractor requiring an access panel not explicitly shown in the project documents shall furnish and install access panels of sufficient size to ensure proper access, with each panel appropriately rated to match the fire or performance rating of the assembly in which it is installed.
9. This Contractor shall install insulated strut clamps and shields so piping insulation remains continuous and is not compressed at supports, wall penetrations, or sleeves.
10. This Contractor shall field verify existing rough-ins before ordering fixtures, modify reused rough-ins to satisfy the drawings, specifications, code, and architectural elevations, and replace existing closet flanges with new stainless-steel closet flanges where floor-mounted water closets are replaced in the same location.
11. This Contractor shall furnish sleeves, penetrant-specific seals, firestopping, and interior/exterior annular seals for its work. The **Roofing Contractor** shall cut and patch roofing and furnish and install roofing-system and sheet-metal flashing required to preserve the roof warranty. This Contractor shall coordinate and pay for roofing work caused by late or uncoordinated penetrations.
12. This Contractor shall perform all testing, flushing and disinfection in accordance with the Contract Documents and local codes.

I. **SANITARY SEWERS**

1. Before underground sanitary work, this Contractor shall trace and camera-scope existing sanitary piping as required to determine flow direction, size, material, elevation, condition, and termination; report discrepancies before installation.
2. This Contractor shall provide all sanitary waste and vent piping, and connections required for new plumbing layouts in accordance with the project documents and all federal, state, and local building codes.

3. This Contractor shall provide excavation, pipe bedding, backfill, compaction, and spoil haul-off as needed to complete the underground sanitary sewer work per project documents.
4. This Contractor shall connect new vent piping to field-verified existing vents through roof where shown. Any new roof opening shall be created by this Contractor. **Roofing Contractor** shall provide roofing-system flashing and patching.
5. This Contractor shall provide all floor drains, floor sinks, floor and wall cleanouts, mop sinks, and related drainage specialties complete with required carriers, trim, trap seals/primers, and connections where indicated.
6. Contractor shall provide all piping identification for piping installed under this scope of work in accordance with the project documents.
7. This Contractor shall provide vents and trap-primer water connections for floor drains where indicated, including trap-primer valve(s), distribution piping, and access panel(s) as required.
8. This Contractor shall provide all new floor and wall cleanouts shown, extend cleanouts to finished surfaces, maintain rodding clearance, and furnish polished stainless-steel access covers and fire-rated access panels where cleanouts occur in rated walls.

J. **DOMESTIC WATER**

1. This Contractor shall provide all cold water (CW), hot water (HW), and hot water recirculating (HWRC) piping, valves, and plumbing specialties shown, scheduled, or otherwise required for the complete domestic water system to plumbing fixtures installed under this scope of work.
2. Contractor shall make all taps and connections to existing water lines, within building where indicated or required by project documents.
3. This Contractor shall pressure test, flush, disinfect, bacteriologically sample, and document the domestic-water system in accordance with applicable codes; repeat treatment and sampling until accepted.
4. This Contractor shall provide excavation, backfill, compaction, and spoil haul-off as needed to complete the underground domestic water piping work per project documents.
5. This Contractor shall provide all plumbing fixtures and equipment scheduled, complete with faucets, flush valves, carriers, stops, supplies, traps, insulation/guards, strainers, trim, accessories, and final connections.
6. This Contractor shall provide shut-off valves for each fixture, fixture group, and restroom group in accordance with the project documents.
7. This Contractor shall provide all necessary carriers, struts, hangers, threaded rod, and anchors as needed to support fixtures/equipment.
8. This Contractor shall provide all piping insulation for piping installed under this scope of work.
9. This Contractor shall provide all piping identification for piping installed under this scope of work in accordance with the project documents.
10. **General Trades Contractor** shall provide cut-outs for sinks, faucets, and related accessories in countertops included in the project scope of work. This Contractor shall provide and install sinks, faucets, drains, and related plumbing work at countertop mounted fixtures.
11. This Contractor shall furnish the plumbing-fixture controls and integral components scheduled with LAV-2 and LAV-3. **Electrical Contractor** shall provide branch power, wiring, and final electrical connection to the AC-powered touch-free faucets.
12. This Contractor shall provide water-hammer arrestors with accessible isolation valves on hot- and cold-water branches serving lavatories, sinks, washing-machine outlets, and all quick-closing valves, sized and located in accordance with project documents.
13. This Contractor shall install FS-1 in Mech/Elec 1216 as close to the corner as practical, extend the existing RPZ backflow-preventer drain to FS-1, and terminate it with a code-compliant indirect air gap.

14. This Contractor shall provide thermostatic mixing valves to specified set points where indicated.

K. **ELEVATOR**

1. This Contractor shall relocate existing plumbing piping within the elevator machine rooms as required to provide code-required clearances for the new elevator equipment. Coordinate extent and locations with the Elevator Contractor prior to relocation. Piping not serving the elevator machine room shall be removed from the room or rerouted as required by code.

L. **SWIMMING POOL PLUMBING**

1. The Contractor shall coordinate with the Owner regarding the selective removal and replacement of existing corroded pool equipment piping located within Pool Equipment Room 1706. The extent of replacement work, piping materials, pipe sizes, and final limits of work will be determined by the Owner following bid award.
2. This scope is identified for coordination and planning purposes only and shall be excluded from the Base Bid Amount. An Owner-held allowance will be carried within the GMP for this work and, upon authorization, the Contractor shall provide pricing for the work based on agreed unit rates, time and material, or a negotiated lump-sum proposal corresponding to the final defined scope.

1.17 BID PACKAGE 23A – MECHANICAL

A. **ALTERNATES**

1. Alternates associated with this Bid Package include the following:
   a. None at this time

B. **ALLOWANCES**

1. Allowances associated with this Bid Package include the following:
   a. None at this time

C. **SPECIFICATIONS**

1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
   a. 230529 – Hangers and Supports for HVAC Piping and Equipment
   b. 230548 – Vibration and Seismic Controls for HVAC
   c. 230553 – Identification for HVAC Piping and Equipment
   d. 230593 – Testing, Adjusting, and Balancing for HVAC
   e. 230713 – Duct Insulation
   f. 230719 – HVAC Piping Insulation
   g. 230733 – Repair of Insulation and Lagging
   h. 230913 – Instrumentation and Control Devices for HVAC
   i. 230923 – Direct-Digital Control System for HVAC
   j. 230993 – Sequence of Operations for HVAC Controls
   k. 232113 – Hydronic Piping
   l. 232114 – Hydronic Specialties
   m. 232300 – Refrigerant Piping
   n. 232500 – HVAC Water Treatment
   o. 233100 – HVAC Ducts and Casings
   p. 233300 – Air Duct Accessories
   q. 233423 – HVAC Power Ventilators
   r. 233600 – Air Terminal Units
   s. 233700 – Air Outlets and Inlets
   t. 237313 – Modular Indoor Central-Station Air-Handling Units
   u. 237413 – Packaged Outdoor Central-Station Air-Handling Units
   v. 238126.13 – Small-Capacity Split-System Air Conditioners

D. **SCOPE OF WORK GENERAL**

1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.
10. The **Construction Manager** will provide and install scaffolding for all trades use in the Pool area to access overhead work. The Pool scaffold will be provided for access above the pool basin, contractors shall provide lifts for access around the pool deck as required for their work.

E. **FIRESTOPPING**

1. Each Contractor that penetrates a fire-rated or smoke-rated wall, floor, or ceiling assembly shall firestop its own penetrations using a UL listed firestopping system appropriate for the penetrating item and the rated assembly. Firestopping shall restore the full rating of the assembly and shall be installed per the manufacturer's listing. Each Contractor shall submit its UL system details for review, and shall coordinate its firestopping products and systems with the General Trades Contractor to ensure compatibility with the overall project firestopping systems.
2. This Contractor shall provide UL listed firestopping at all penetrations made by this Contractor through fire-rated and smoke-rated assemblies, including new penetrations and existing penetrations modified or reused by this Contractor. Firestopping of rated wall joints, head of wall conditions, and all other firestopping not associated with trade penetrations will be provided by the General Trades Contractor. This Contractor shall coordinate its firestopping systems with the General Trades Contractor to ensure compatibility and compliance with the overall firestopping requirements.

F. **MECHANICAL DEMO**

1. Each MEP-FP Contractor shall be responsible for the complete demolition and removal of their respective systems, including but not limited to all fixtures, piping, ductwork, cabling, hangers, supports, and accessories. All demolished materials shall be transported and disposed of in dumpsters provided by the **Demolition & Abatement Contractor** unless noted otherwise herein.

2. All demolished metal materials resulting from this contractor's work, including but not limited to ductwork, piping, equipment, supports, hangers, insulation jacketing, sheet metal, air devices, mechanical specialties, and miscellaneous ferrous and non-ferrous metals, shall be removed from the work area and placed in designated recycling containers furnished by the **Demolition & Abatement Contractor.**
3. This Contractor shall perform all demolition scheduled, shown, or indicated to be performed by the “contractor” on MD sheets to dumpsters provided by **Demolition & Abatement Contractor** unless noted otherwise.
4. At WEH, this Contractor shall remove RTG-005 while leaving its existing curb, remove AHU-006, AHU-007, and exhaust fans shown for demolition with associated piping, valves, ductwork, supports, controls, and accessories, and protect housekeeping pads designated to remain. Include hoisting, transport, and lawful disposal.
5. Before demolition, this Contractor shall coordinate shutdowns, drain affected hydronic systems, isolate and cap mechanical piping and duct connections, coordinate line-voltage disconnection with Electrical Contractor, and give the Owner at least two days notice before chilled-water or heating-water shutdowns.
6. This Contractor shall be responsible for recovery and lawful disposal of all existing refrigerants in piping and equipment scheduled to be demolished under this scope of work.
7. This Contractor shall remove all mechanical equipment, ductwork, piping, air devices, hangers, supports, automatic-control devices, and Division 23 control wiring shown for demolition. **Electrical Contractor** shall remove line-voltage feeders and power wiring.
8. This Contractor shall remove thermostats, temperature sensors, accessories, and associated Division 23 control wiring shown for demolition back to the indicated source.
9. This Contractor shall remove existing gas piping, valves, and accessories where indicated.
10. This Contractor shall drain, fill, and vent every hydronic system affected by demolition or tie-in work and shall maintain systems serving occupied or out-of-scope areas.
11. This Contractor shall offer removed equipment to the Owner before disposal and shall protect any equipment accepted for salvage until turned over at a location designated by the **Construction Manager**.
12. This Contractor shall coordinate removal of the existing louver with the **Demolition & Abatement Contractor** and shall disconnect and remove associated ductwork, retain adjacent active systems, and furnish exact new louver and duct opening requirements.

G. **GAS PIPING**
1. This Contractor shall provide natural-gas piping modifications, roof supports, valves, regulators, sediment traps, flexible connections, and final connections to gas-fired mechanical equipment installed or reconnected under this Bid Package (including WEH RTG-005 where gas-fired). At WEH, field verify the existing seismic shutoff valve per P0.0 Note 11 and provide restraint of gas piping if the valve is absent or noncompliant.
2. This Contractor shall provide new gas connections, draft hood, and vent piping at new water heaters where indicated.

H. **MECHANICAL GENERAL**
1. The limited space for MEP/FP (HVAC, Electrical, Plumbing, and Fire Protection) work above suspended ceilings requires precise coordination among bid package contractors, who must review Architectural, Structural, Mechanical, and Electrical drawings before fabrication or installation. Ductwork shall be hung as close as possible to the structure above unless otherwise specified, and any rework due to poor planning, coordination, or scheduling shall be the responsibility of the negligent contractor.
2. This Contractor shall patch existing walls to match existing finish at new penetrations created under this scope of work. Patchwork to include any required joint sealants/fire rated sealants to match/maintain partition type/function.

3. Contractor shall be responsible for all Mechanical work shown on the mechanical (M) drawings shown, scheduled, or otherwise indicated to be performed by the “Contractor” unless specifically excluded herein.
4. This Contractor shall provide complete HVAC scope of work in accordance with all division 23 specifications unless specified otherwise in this specification section.
5. This Contractor shall provide RTG-005, AHU-006, AHU-007, VAV terminal units, exhaust fans, air devices, hydronic piping/coil connections, controls, supports, insulation, and accessories actually shown on the mechanical and coordinated electrical drawings.
6. At ECC, this Contractor shall provide the restroom exhaust-system demolition and modifications, new exhaust fans and air devices, radiant heat panels, heating-water connections and controls, supports, insulation, and BAS integration shown on the mechanical drawings.
7. Contractor shall provide all hangers/piping support required for piping and ductwork installed under this scope of work including any seismic restraints if required by federal, state, or local codes.
8. Contractor shall provide all vibration and seismic controls for HVAC piping and equipment in accordance with the project documents. Contractor shall provide all identifications for HVAC piping and equipment in accordance with the specifications.
9. Contractor shall provide all ductwork, piping and equipment identification required by the project documents.
10. Contractor shall render any penetrations through exterior walls and roofs permanently watertight.
11. Contractor shall provide all joint sealants at fixtures, piping, and ductwork penetrations created by this scope of work in accordance with the project documents.
12. This Contractor shall provide pipe supports for mechanical system related piping and ductwork on roofs where indicated.
13. This Contractor shall reuse the existing RTG-005 curb and provide the new seismically attached adapter curb required by the project documents. Existing housekeeping pads shown to remain at AHU replacements shall remain. Provide only supplemental pads or bases expressly required by approved equipment.
14. This Contractor shall provide duct access doors and panels integral to duct systems and plenums.
15. Any Contractor requiring an access panel not explicitly shown in the project documents shall furnish and install access panels of sufficient size to ensure proper access, with each panel appropriately rated to match the fire or performance rating of the assembly in which it is installed.
16. This Contractor shall field coordinate all duct and piping elevations with structure, lighting, fire protection, plumbing, electrical work, and ceiling systems before fabrication; rework caused by insufficient coordination shall be at this Contractor's cost.
17. This Contractor shall provide cutting, core drilling, sleeves, and trade seals required for its work; identify all structural penetrations before cutting and obtain required approvals.
18. This Contractor shall repair insulation and lagging damaged by demolition, tie-ins, or new work to match the existing system and comply with Section 230733.
19. This Contractor shall furnish sleeves, penetrant-specific seals, firestopping, and interior/exterior annular seals for its work. The **Roofing Contractor** shall cut and patch roofing and furnish and install roofing-system and sheet-metal flashing required to preserve the roof warranty.
20. This Contractor shall provide roof protection boards as specified over the roof area within this Contractor's work area and along all access routes used to reach the work area, including walkways from roof access points and material staging areas.

I. **MECHANICAL EQUIPMENT**

1. The Contractor shall furnish and install all equipment curbs required for mechanical equipment provided under this Contract, including, but not limited to, roof curbs, curb adapters, equipment mounting frames, structural support framing, and all associated anchorage and support components. This Contractor shall coordinate curb sizes, configurations, and loading requirements with the equipment manufacturer and supporting trades to ensure a complete and functional installation.
2. This Contractor shall provide all mechanical equipment listed on mechanical equipment schedules unless noted otherwise. Contractor shall provide related equipment, services and components outlined in equipment schedule notes where indicated.
3. This Contractor shall provide complete refrigerant piping systems for split-system equipment, including insulation, fittings, supports, accessories, evacuation, refrigerant charge, testing, and manufacturer-required sizing.
4. This Contractor shall provide trapped condensate drain piping from mechanical equipment to the indicated floor drain, roof drain, or grade, including insulation where required, supports, cleanouts, and equipment-manufacturer accessories.
5. This Contractor shall provide equipment support flashings wherever required.
6. **This contractor shall provide early start-up for dehumidification use, including up to (5) filter changes, and extended warranty to cover early start-up time period.**
7. This Contractor shall furnish RTG-005, AHU-006, and AHU-007 and the VFDs, integral disconnect components, controls interfaces, and accessories allocated to Division 23 by the electrical equipment schedule.
8. This Contractor shall protect existing AHU housekeeping pads designated to remain, verify dimensions/elevations against approved replacement equipment, and promptly report incompatible conditions.
9. This Contractor shall provide HVAC water treatment, including system cleaning, chemicals, testing, and service required by Section 232500.

J. **VENTILATION**
1. This Contractor shall route ductwork through partitions and ceilings, provide sleeves and mechanical penetration seals, and coordinate roof penetrations with **General Trades Contractor**. **Roofing Contractor** shall perform roof-membrane flashing, patching, and warranty work.
2. This Contractor shall provide fire/smoke dampers and fire joint sealants at all HVAC penetrations through rated walls wherever scheduled, shown, or otherwise required to maintain fire ratings.
3. This Contractor shall provide all new supply, return, and exhaust ductwork wherever shown, scheduled, or otherwise indicated in the project documents.
4. This Contractor shall make all connections from new to existing ductwork wherever shown, scheduled, or otherwise indicated in the project documents.
5. This Contractor shall provide return-air-plenum openings, transfer openings, and duct/plenum access openings shown or required for the indicated return-air paths.
6. This Contractor shall provide all ductwork insulation in accordance with the project documents.
7. This Contractor shall make all ductwork connections to HVAC related equipment.
8. This Contractor shall provide all air devices, supply grilles/diffusers, return grilles, exhaust grilles, and any HVAC ductwork materials shown, scheduled, or otherwise indicated in the project documents.
9. This Contractor shall provide duct silencers and related acoustical treatment systems at ductwork where indicated.
10. This Contractor shall provide balancing dampers at supply and exhaust runouts and opposed-blade dampers at rectangular branches/runouts exceeding [12] inches in height.
11. This Contractor shall provide duct access doors at automatic/motorized dampers, fire dampers, and other service points, sized and permanently identified where required.

12. This Contractor shall connect new outside-air duct to existing drops, connect new supply duct to the existing air device, and connect new exhaust duct to the existing exhaust louver in Area A.
13. This Contractor shall relocate existing air devices for new ceiling layouts where required.

K. **EXTERIOR DUCTWORK - WEST MIDDLE**

1. This Contractor shall remove the existing roof-mounted ductwork and associated dampers indicated while protecting the existing roof, roof curbs, damper wiring, duct supports, and relief fans designated to remain.
2. **General Trades Contractor** shall remove and replace cap flashing at all curbs under ductwork and equipment to be removed and replaced as indicated.
3. This Contractor shall provide new roof-mounted ductwork and dampers on the existing supports, reconnect to existing duct drops, and provide the indicated weatherhoods, bird screens, insulation, tapered drainage, and all-weather weatherproof jacketing.
4. This Contractor shall reconnect the existing damper control wiring and test each new damper for proper operation.
5. **Electrical Contractor** shall disconnect and reconnect line voltage to motorized equipment.
6. At WEM, this Contractor shall provide all hoisting and roof-level material handling for the exterior duct replacement and shall coordinate crane locations, deliveries, roof access, protection, and any required HVAC interruptions with the Owner and Construction Manager so occupied areas and active systems remain protected.

L. **HYDRONIC PIPING**

1. This Contractor shall provide complete heating-water and chilled-water piping modifications shown, including new supply/return branches, VAV runouts, coil connections, valves, supports, insulation, testing, draining, filling, and venting.
2. This Contractor shall provide the hydronic supply/return mains and branches, pipe supports, anchors, guides, insulation, valves, strainers, balancing devices, vents, drains, fittings, and coil-connection specialties.
3. Valves shall be installed at designated locations for system balancing, isolation, and maintenance. Proper supports and securing of piping shall follow industry standards.
4. This contractor shall perform system flushing, cleaning, and pressure testing before commissioning
5. Contractor shall make all taps and connections to existing lines where indicated or required by project documents.
6. This Contractor shall provide all piping insulation for piping installed under this scope of work.
7. This Contractor shall connect new heating-water and chilled-water supply/return piping to existing branch lines and provide complete coil-connection trim in accordance with project documents.
8. This Contractor shall provide 3/4-inch heating-water runouts to VAV terminal boxes unless specifically noted otherwise.
9. This Contractor shall pressure-test affected piping, repair leaks, fill, clean, vent, and restore systems to operation before TAB.

M. **HVAC CONTROLS & BUILDING AUTOMATION SYSTEM (BAS)**

1. This Contractor shall subcontract the DDC/BAS work to Automatic Controls Equipment Systems, Inc. (ACES) and provide a complete HVAC controls system, including controllers, devices, thermostats/sensors, control panels, Division 23 control wiring and raceways, programming, graphics, startup, integration, and the sequences required.

2. This Contractor shall coordinate factory-mounted controls and field-installed ACES components with RTG-005, AHU-006, AHU-007, VAV terminals, exhaust fans, and hydronic control valves. Provide Division 23 control wiring and the communications interfaces required for a complete operating system. **Electrical Contractor shall provide line-voltage branch power and final power connections.**
3. This Contractor shall replace any damaged BAS cable or non-plenum-rated cable where existing to remain is indicated in the project documents.
4. This Contractor shall remove and dispose of existing thermostats, sensors, control devices, and associated Division 23 control wiring shown for demolition and shall coordinate deprogramming, reconnection, and new programming with ACES.
5. This Contractor shall be responsible for all costs associated with integrating the new BAS system with the School District's control system, ensuring seamless operation within the existing infrastructure.
6. This Contractor shall engage ACES before bid and coordinate controller space, factory-installed devices, field-installed devices, point lists, sequences, graphics, and BACnet integration for every new or modified system.
7. This Contractor shall provide control wiring and coordinate fire-alarm interlocks and branch-power connections in accordance with the electrical equipment schedule to be provided by **Electrical Contractor**.

N. **START-UP & TESTING**
1. Contractor shall provide complete start-up, testing, and balancing of HVAC systems installed/modified under this scope of work in accordance with specification 230593.
2. This Contractor shall test and balance every new or existing supply, return, and exhaust air device and fan affected by the renovation to the values shown, including devices connected to modified existing systems.
3. Contractor shall provide final start-up and Owner training for all equipment provided under this scope of work.
4. This Contractor shall provide equipment startup, controls startup testing, deficiency correction, record control locations and setpoints, O&M data, and Owner training coordinated through the **Construction Manager**.

O. **ELEVATOR**
1. This Contractor shall relocate existing mechanical systems related piping within the elevator machine rooms as required to provide code-required clearances for the new elevator equipment. Coordinate extent and locations with the Elevator Contractor prior to relocation. Piping not serving the elevator machine room shall be removed from the room or rerouted as required by code.

1.18 BID PACKAGE 26A – ELECTRICAL SYSTEMS

A. **ALTERNATES**
1. Alternates associated with this Bid Package include the following:
   a. None at this time

B. **ALLOWANCES**
1. Allowances associated with this Bid Package include the following:
   a. None at this time

C. **SPECIFICATIONS**
1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
   a. 260505 – Selective Demolition for Electrical
   b. 260519 – Low-Voltage Electrical Power Conductors and Cables
   c. 260526 – Grounding and Bonding for Electrical Systems
   d. 260529 – Hangers and Supports for Electrical Systems
   e. 260533.13 – Conduit for Electrical Systems

f. 260533.16 – Boxes for Electrical Systems
g. 260533.23 – Surface Raceways for Electrical Systems
h. 260548 – Vibration and Seismic Controls for Electrical Systems
i. 260553 – Identification for Electrical Systems
j. 260583 – Wiring Connections
k. 260923 – Lighting Control Devices
l. 262416 – Panelboards
m. 262726 – Wiring Devices
n. 262813 – Fuses
o. 262816.13 – Enclosed Circuit Breakers
p. 262816.16 – Enclosed Switches
q. 265100 – Interior Lighting
r. 271000 – Structured Cabling
s. 275117 – Public Address and Intercom Systems
t. 281000 – Access Control
u. 282000 – Video Surveillance
v. 284600 – Fire Detection and Alarm

D. **SCOPE OF WORK GENERAL**

1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.
10. The **Construction Manager** will provide and install scaffolding for all trades use in the Pool area to access overhead work. The Pool scaffold will be provided for access above the pool basin, contractors shall provide lifts for access around the pool deck as required for their work.

E. **FIRESTOPPING**

1. Each Contractor that penetrates a fire-rated or smoke-rated wall, floor, or ceiling assembly shall firestop its own penetrations using a UL listed firestopping system appropriate for the penetrating item and the rated assembly. Firestopping shall restore the full rating of the assembly and shall be installed per the manufacturer's listing. Each Contractor shall submit its UL system details for review, and shall coordinate its firestopping products and systems with the General Trades Contractor to ensure compatibility with the overall project firestopping systems.
2. This Contractor shall provide UL listed firestopping at all penetrations made by this Contractor through fire-rated and smoke-rated assemblies, including new penetrations and existing penetrations modified or reused by this Contractor. Firestopping of rated wall joints, head of wall conditions, and all other firestopping not associated with trade penetrations will be provided by the General Trades Contractor. This Contractor shall coordinate its firestopping systems with the General Trades Contractor to ensure compatibility and compliance with the overall firestopping requirements.

F. **TEMPORARY ELECTRIC**
1. Contractor shall provide temporary electric service to the Construction Manager's on-site job office trailer from the nearest available power source inside the existing building. Contractor shall seal any wall penetrations required for temporary power. At project completion, Contractor shall remove the temporary electric service and patch walls (if required). *This work is excluded from the Base Bid. It will be funded from an Owner-held allowance and issued by Change Order.*
2. This Contractor shall provide temporary lighting throughout work areas as required to maintain a safe working environment as required by OSHA and Construction Manager’s Safety Plan.
3. This Contractor shall provide and maintain **Construction Manager**-directed temporary distribution panels and temporary power receptacles serving common work areas on each floor from available building power. Each trade shall provide its own special temporary power and generators beyond standard wall outlets. Remove temporary distribution at completion and seal/patch penetrations.

G. **ELECTRICAL WORK - GENERAL**
1. The limited space for MEP/FP (HVAC, Electrical, Plumbing, and Fire Protection) work above suspended ceilings requires precise coordination among bid package contractors, who must review Architectural, Structural, Mechanical, and Electrical drawings before fabrication or installation. Ductwork shall be hung as close as possible to the structure above unless otherwise specified, and any rework due to poor planning, coordination, or scheduling shall be the responsibility of the negligent contractor.
2. This Contractor shall patch existing walls to match existing finish at new penetrations created under this scope of work. Patchwork to include any required joint sealants/fire rated sealants to match/maintain partition type/function.
3. This Contractor shall provide all Electrical (Div. 26), Communications (Div. 27) and Electronic Safety and Security (Div. 28) scopes of work shown in the drawings, drawing notes, and specifications sections unless specified otherwise in this specification section.
4. Contractor shall render any penetrations through exterior walls and roofs permanently watertight.
5. This Contractor shall provide all joint sealants at fixtures, piping, and penetrations installed/created by this scope of work in accordance the project documents.
6. Contractor to provide receptacle face plates with panel and circuit designations.
7. Contractor shall provide all seismic restraints for electrical related equipment and system components in accordance with the seismic category D requirements.
8. Contractor shall provide all hangers/piping support required for piping and conduits installed under this scope of work including any seismic restraints if required by federal, state, or local codes.
9. This Contractor shall provide pipe supports for conduits on roofs where indicated.

10. This Contractor shall provide complete grounding system in accordance with the project documents.
11. This Contractor shall schedule each electrical outage with the Owner's representative at least [14] calendar days in advance. Unless otherwise approved, downtime on equipment serving areas outside construction limits shall not exceed [1] hour.
12. This Contractor shall furnish hand-marked record drawings at completion, clearly and legibly marked in red to show actual circuiting, device/equipment locations, and major feeder/raceway routing changes, and shall incorporate them into closeout submittals.
13. This Contractor shall match existing breaker types and interrupting ratings when adding circuit breakers to existing panelboards.
14. This Contractor shall furnish sleeves, penetrant-specific seals, firestopping, and interior/exterior annular seals for its work. The **General Trades Contractor** shall cut and patch roofing and furnish and install roofing-system and sheet-metal flashing required to preserve the roof warranty. This Contractor shall coordinate and pay for roofing work caused by late or uncoordinated penetrations.

H. **ELECTRICAL DEMOLITION**

1. Each MEP-FP Contractor shall be responsible for the complete demolition and removal of their respective systems, including but not limited to all fixtures, piping, ductwork, cabling, hangers, supports, and accessories. All demolished materials shall be transported and disposed of in dumpsters provided by the **Demolition & Abatement Contractor** unless noted otherwise herein.
2. All demolished metal materials resulting from this contractor's work, including but not limited to conduit, wire, cable tray, panelboards, cabinets, enclosures, supports, raceways, light fixtures, device boxes, metallic fittings, and miscellaneous ferrous and non-ferrous metals, shall be removed from the work area and placed in designated recycling containers furnished by the **Demolition & Abatement Contractor.**
3. This Contractor shall be responsible for all electrical demolition work shown, scheduled or otherwise indicated to be performed by the "Contractor" on electrical demolition (ED) and (TD) series sheets, this contractor shall dispose of demolished elements in dumpsters provided by **Demolition & Abatement Contractor**.
4. This Contractor shall remove demolished circuits to the panelboard of origin. Where demolished circuits share a conduit with circuits to remain, remove conductors only to the nearest accessible junction box, cap and make safe, and maintain continuity of all remaining circuits.
5. This Contractor shall disconnect, remove, cap, and make safe electrical fixtures/devices shown for demolition. Salvage only items specifically indicated for salvage; protect them from damage and coordinate delivery/storage with the Owner.
6. Contractor shall remove existing panels, extend feeders, and reinstall panels wherever shown scheduled, or otherwise indicated in the project documents.
7. This Contractor shall remove existing light fixture controls back to the source panelboards while ensuring that all existing lighting controls designated to remain are fully operational. All work shall be performed in coordination with the electrical system requirements to prevent disruption to the remaining lighting controls.
8. Contractor shall remove existing receptacles, conduit, and wiring to nearest J-box outside of demolition areas where indicated. Contractor shall maintain circuits to existing receptacles remaining in service.
9. Contractor shall rework raceways and circuits to devices that remain to accommodate reconnection to new distribution systems.
10. Contractor shall remove exposed and abandoned conduit above accessible ceilings. Cut conduit behind walls and below floors. Contractor shall patch surfaces and finishes to match existing fire ratings and finishes where applicable.
11. Contractor shall remove abandoned wiring back to source of supply.

12. Contractor shall disconnect abandoned outlets and remove devices. Remove abandoned outlets if circuit serving them is abandoned and removed. Provide blank cover for abandoned outlets which are not removed.
13. This Contractor shall relocate existing power distribution equipment to new locations, extend wiring, and provide terminations at new locations wherever shown, scheduled, or otherwise indicated in the project documents.
14. Contractor shall disconnect and remove abandoned panelboards, switches, contractors, starters, and other distribution equipment where required.
15. Contractor shall disconnect and remove electrical devices and equipment servicing utilization equipment that has been removed unless noted otherwise.
16. Contractor shall disconnect and render safe any electrified site furnishing and/or site lightings scheduled for removal. **Site Improvements contractor** shall remove furnishings, fixtures, poles, and foundations once they are rendered safe.
17. This Contractor shall demolish the existing laundry panel and feeder from panelboard 054-PLL-006, disconnect laundry equipment/circuits shown, and restore the Electrical Room 1611 penetration to a 2-hour fire rating.

I. **TECHNOLOGY DEMOLITION**

1. This Contractor shall perform data/voice-system demolition indicated on TD drawings. Coordinate removal and reinstallation of Owner equipment with Parkway IT and the designated system vendors; protect, coil, label and support reusable cabling at the ceiling. Do not include Owner-assigned camera removal/reinstallation under this item.
2. This Contractor shall demolish communications/data devices, cabling, supports, sleeves, conduit and raceway indicated for removal, back to source, except cabling specifically noted to remain or be reused. Protect active systems serving areas outside the work.
3. This Contractor shall disconnect and remove initiating devices indicated on TD3 sheets, modify programming, maintain continuity to devices remaining in service, and dispose of unused components unless the Owner directs salvage in writing.
4. This Contractor shall disconnect and remove notification appliances indicated on TD3 sheets, modify programming, maintain continuity to devices remaining in service, and dispose of unused components unless the Owner directs salvage in writing.
5. The contractor shall reinstall salvaged fire alarm devices as specified in the drawings, schedules, or other project documents. The contractor shall extend wiring and conduits as needed to accommodate the new locations of the fire alarm devices.
6. The Owner shall remove, store, furnish and finally install/reinstall CCTV cameras. This Contractor shall perform indicated CCTV wiring-system demolition and rough-in, and shall protect, coil, label and support existing camera cabling specifically designated for reuse. Weatherproof abandoned exterior penetrations only where an exterior camera location is actually abandoned.
7. This Contractor shall coordinate WAP removal and reinstallation with Parkway IT. At locations shown on TD2.1A/T2.1A, protect, coil, label and support existing WAP cabling for reuse; do not remove reusable cabling back to the IDF. Include device handling only after the CM confirms responsibility.
8. The **General Trades Contractor** shall remove the existing access control door hardware and devices identified for demolition, relocation or reinstallation. It shall protect and store items designated for reinstallation and reinstall them where indicated. This Contractor shall disconnect the access control cabling at the door interface box. This Contractor shall coordinate the sequence with the **General Trades Contractor** so that cabling is disconnected before hardware is removed. Existing cabling to remain shall be temporarily supported and protected, and any cable damaged during construction shall be replaced with new cable to specification. The Owner shall change the programming to remove disconnected devices. Where hardware is reinstalled, this Contractor shall provide or reinstall the device wiring and reconnect at the door interface box.

9. Through the certified SmartBoard/Projector Installer, this Contractor shall remove, protect, store, and reinstall wall-mounted interactive displays/monitors designated for reuse. This Contractor shall demolish only display cabling specifically indicated for removal and not assigned to the certified installer.
10. This Contractor shall temporarily support, protect, label and maintain all existing technology and fire-alarm cabling serving devices to remain; damaged existing cabling shall be replaced with new cable complying with the applicable specification.
11. This Contractor shall coordinate demolition with systems serving floors and areas outside the work and shall maintain those services active during and after demolition.
12. This Contractor shall schedule communication-system outages with the Owner at least [14] calendar days in advance and shall identify the system, affected areas and anticipated duration in each outage request.
13. This Contractor shall preserve the existing speaker, camera and WAP cabling identified for reuse in Area A and shall coil and support it above the ceiling for reinstallation.

J. **SLAB REMOVALS**
1. **Demolition & Abatement Contractor** shall saw cut and remove existing concrete slab for installation of new underslab electrical work where shown. **Electrical Contractor** is responsible for layout, excavation, electrical work, and backfill of electrical trenches. **General Trades Contractor** is responsible for concrete pour backs for electrical trenches.

K. **ELECTRICAL DISTRIBUTION**
1. This Contractor shall provide all electrical power distribution equipment as required by the project documents to provide a complete and fully operational power distribution system. This includes, but is not limited to, all switchboards, panelboards, transformers, disconnects, and other related electrical distribution components. The contractor shall also provide and install all necessary mounting hardware, conduits, conductors, cabling, grounding systems, terminations, and accessories required to support the installation and ensure full functionality of the power distribution system.
2. This Contractor shall provide final testing, verification, and commissioning of electrical distribution system.
3. Contractor shall furnish new and existing panelboards identified as part of the work with current and accurate typewritten circuit panel schedule cards. Hand corrected or handwritten cards are not permitted.
4. This Contractor shall verify final nameplate electrical data and overcurrent protection against approved mechanical equipment submittals before ordering breakers/fuses.
5. Contractor shall re-work all panelboard circuitry wherever shown, scheduled, or otherwise indicated in the project documents.
6. Contractor shall provide new panelboards and breakers wherever shown, scheduled, or otherwise indicated in the project documents.
7. Contractor shall remove existing circuit breakers and replace with new breakers and extend circuits where indicated.
8. Contractor shall re-install existing transformers removed during demolition wherever shown, scheduled, or otherwise indicated in the project documents.

L. **ELECTRICAL WORK**
1. Contractor shall be responsible for all work shown, scheduled, or otherwise indicated to be performed by the “Contractor” on electrical (E) and systems (T) drawings unless specifically excluded herein.
2. Contractor shall provide all branch circuitry including all raceways and cabling wherever shown, scheduled, or otherwise indicated in the project documents.
3. Contractor shall provide new electrical devices, switches, outlets, disconnects, and related devices to locations shown, scheduled or otherwise indicated in the project documents.
4. Contractor shall provide all trenching and backfill required for new underground electrical work as required.

5. This Contractor shall provide the complete Wiremold 4000 Series, or approved equal, dual-channel raceway system and divided enclosures/fittings where indicated, including line-voltage wiring and power raceway.
6. This Contractor shall provide the new flush gymnasium floor box(s), reconnect the existing conduit system, and provide the 30A non-fused disconnect, 20A/3P breaker, circuitry, and final connection for motorized bleachers; coordinate with approved bleacher submittals.
7. This Contractor shall provide receptacles and branch circuits indicated for exercise equipment, coordinate final locations with the Owner, and provide panel 054-PLL-037 circuiting per the panel schedule.
8. Within Pool 1700 and Corridor C1U, this Contractor shall provide exposed boxes, conduit, and fittings of nonmetallic construction and corrosion-resistant mounting hardware.

M. **LIGHTING**

1. Contractor shall provide all light fixtures, interior and exterior, where indicated in the project documents. Contractor shall provide new, or extend existing, wiring for new light fixtures per project documents.
2. Contractor shall provide emergency and exit lighting where indicated in the project documents.
3. This Contractor shall provide, program, test, commission, and train the Owner on all lighting controls shown or specified, including room controls, sensors, dimming, pool controller LC1, emergency inverter INV-1 interfaces, and final setpoint/scene adjustment.
4. This Contractor shall provide UL 924 emergency lighting inverter INV-1, minimum 550W, switched, single-circuit, and all line-voltage and 0-10V interfaces shown on Detail 1/E7.0 for emergency pool fixtures.
5. This Contractor shall provide lighting controller LC1 and associated wall switch/control wiring for non-emergency Type H fixtures in Pool 1700; program pool scenes and dimming so HE night lights remain at 20 percent when manually off and provide separate fixed dimming zones as scheduled.
6. This Contractor shall provide watertight lighting controls in the pool area and install all controllers in enclosures in accessible concealed spaces.
7. Where fixtures occur below ductwork, this Contractor shall provide steel strut supports suspended from structure with threaded rods; do not support fixtures from ductwork.
8. This Contractor shall provide all pool-area lighting, supports, corrosion-resistant fittings, wiring, controls, bonding and grounding, and final aiming and testing shown in the Contract Documents. Coordinate fixture locations with the architectural reflected ceiling plan and the **Construction Manager**'s pool scaffold.
9. At WEM, this Contractor shall remove, temporarily support, protect, and reinstall light fixtures and associated wiring affected by ceiling replacement and fire-sprinkler installation. Through ABF, Inc., this contractor shall include corresponding fire-alarm device work and restore all affected systems to operation.

N. **EQUIPMENT CONNECTIONS**

1. Contractor shall provide power terminations to all electrically powered equipment wherever shown, scheduled, or otherwise indicated in the project documents.
2. **General Trades Contractor** shall furnish all new electric hand dryers where indicated in the project documents. This Contractor shall install hand dryer and make final electrical terminations.
3. This Contractor shall provide power terminations to all electrified equipment where indicated in the project documents.
4. This Contractor shall furnish and install a disconnect for all equipment it powers, including any the NEC requires, unless the project documents specifically assign the disconnect to another trade. If the documents don't say, or are unclear, the disconnect belongs to this Contractor.

a. Factory-mounted or integral disconnects: Where the documents show a disconnect as factory-mounted or integral and furnished with the equipment by others, the other trade provides it. This Contractor provides the power feed and final connection.
b. Loose disconnects: Where another trade furnishes a disconnect loose, this Contractor shall install it unless the documents assign installation to that trade. This Contractor also provides the power feed and final connection.
c. VFDs and starters furnished loose by others: This Contractor shall furnish and install any disconnect the NEC or the manufacturer requires, unless the documents show it as furnished by others or the unit has an approved integral disconnect.

5. **Mechanical Contractor** shall furnish and install the scheduled integral VFDs as scheduled in the project docments. This Contractor shall provide line-voltage branch circuitry and final power terminations to the VFD/equipment. **Mechanical Contractor** shall provide control wiring.
6. This Contractor shall provide new power feeds to mechanical units wherever shown, scheduled, or otherwise indicated in the project documents.
7. This Contractor shall provide rough-in, branch circuitry, final connections, disconnecting means where required, and testing for all electrically operated toilet accessories.
8. This Contractor shall provide branch power, wiring, and final electrical connections for AC-powered touch-free faucets furnished by **Plumbing Contractor**. Coordinate voltage, controls, transformer requirements, and connection points with the **Plumbing Contractor** before rough-in.

O. **ELECTRIC UNIT HEATERS**
1. This Contractor shall provide new electric unit heaters where indicated in the project documents.

P. **ELEVATOR**
1. **Machine Room Relocations:** This Contractor shall relocate existing electrical equipment, boxes, conduit, wiring, and devices in the elevator machine rooms as required for code-required clearances and for installing the new elevator equipment. Coordinate the extent and locations with the Elevator Contractor before relocating anything. Keep power on to all circuits that stay in service.
2. **Demolition:** This Contractor shall perform the elevator electrical demolition indicated in the project documents. Retain, extend, and reconnect existing circuits indicated for reuse.
3. **New Work:** This Contractor shall provide all new elevator electrical work shown, scheduled, or otherwise indicated in the project documents. Where indicated, this includes feeders, disconnects, and fuses; cab light and fan circuits; shaft, pit, and machine room lighting and switches; maintenance GFCI receptacles; and final connections.
4. This Contractor shall maintain and reuse existing elevator feeders, disconnects, and connections indicated to remain.
5. This Contractor shall provide fire alarm interface, shunt trip, emergency/standby power, and communication wiring to the elevator controllers where indicated in the project documents.
6. All work shall comply with NFPA 70 (National Electrical Code), including Article 620, ASME A17.1, and the requirements of the authority having jurisdiction. Coordinate fuse sizing, device locations, and final terminations with the Elevator Contractor's approved submittals. Sequence the work with the elevator modernization phasing and coordinate all shutdowns through the **Construction Manager.**

Q. **LOW VOLTAGE GENERAL**
1. **General Trades contractor** shall provide plywood backer boards in accordance with the project documents.
2. This Contractor shall furnish, install, test, and certify all Category 6 (CAT 6) cabling required for a complete and operational structured cabling system.

3. This Contractor shall provide communication outlet boxes with 1-inch-minimum conduit to accessible ceiling, and cable tray/J-hooks/supports from outlets to the serving communication room. Utilize existing pathways where applicable and provide new pathways where none exist.
4. This Contractor shall comply with each project's low-voltage responsibility matrix and shall include in its Base Bid the costs of the designated Owner-preferred vendors where their work is assigned to this Bid Package.
5. This Contractor shall provide 1-inch-minimum conduit from each standard communication outlet box to accessible ceiling, unless a larger size or different pathway is indicated.
6. This Contractor shall provide EMT sleeves with insulated bushings for low-voltage cables through walls and floors and shall firestop rated penetrations.
7. This Contractor shall provide pull strings in all empty/spare low-voltage conduits and conduits serving future work.
8. This Contractor shall label cables, patch panels, faceplates, connectors, punch blocks and related components in accordance with the specifications and Owner standards.
9. This Contractor shall coordinate ceiling-mounted speakers, smoke detectors, WAPs and cameras with architectural reflected-ceiling plans and other trades before rough-in.

R. **DATA / VOICE SYSTEM**

1. This Contractor shall provide the complete data/voice cabling and pathway work, including demolition, outlets, Category 6 cable, jacks, faceplates, supports, sleeves, firestopping, labeling, terminations and testing in accordance with project documents.
2. This Contractor shall furnish and install Category 6 horizontal cabling, jacks, faceplates, patch-panel ports/terminations, cable management and supports required for the new outlets where indicated. Maintain 25 percent spare capacity where new panels are required.
3. The Contractor shall provide and install dual-channel raceways at locations shown, along with all outlet boxes, back boxes, and cover plates required for a complete system.
4. For WAP locations, provide direct-attach Category 6 cable terminated with a same-category RJ-45 male connector, dust cover and a supported 15-foot extra cable loop, unless clarified otherwise by addendum. Coordinate reuse/reinstallation of existing WAPs with Parkway IT.
5. This Contractor shall terminate horizontal cabling at patch panels and outlets and test each link. Parkway Schools shall furnish and install patch cords from patch panels to Owner network equipment.
6. All work shall comply with current BICSI standards, TIA/EIA cabling standards, and local codes.
7. The Contractor shall perform all required testing and certification of cabling, provide as-built documentation, labeling, and cable schedules, and submit test results for approval.
8. Training, warranties, and closeout documentation shall be provided in accordance with specification requirements.
9. This Contractor shall provide voice/network requirements for the BAS, fire-alarm control panel and elevators shown or required by the Contract Documents.

S. **SMARTBOARD / PROJECTORS**

1. This Contractor shall be responsible for all demolition, rough-in, cabling, and power requirements necessary for the installation of smartboards and projectors. To ensure a complete and operational system, this contractor shall contract with **Owner Preferred Vendor (Schillers A/V)** for all smartboard and projector-related work and coordinate the final scope of services accordingly.
2. This Contractor shall provide indicated 120-volt power and data/voice outlet rough-in serving SmartBoards/projectors, and shall coordinate all equipment, mounting, and system-wiring requirements with **Schiller's A/V**.

3. Through **Schiller's A/V**, this Contractor shall reinstall wall-mounted interactive displays/monitors and supports where indicated. Provide raceways, power, and data/voice infrastructure, and coordinate final system cabling and terminations with **Schiller's A/V**.

T. **PUBLIC ADDRESS (PA) SYSTEM**

1. This Contractor shall provide a complete PA/intercom extension through **Owner Preferred Vendor (Primary Systems)** and include **Primary Systems**' cost. This Contractor shall perform indicated PA demolition. Contractor shall coordinate final scope of work with Primary Systems to furnish, install, terminate, program, test and demonstrate new/relocated PA equipment and wiring.
2. Through **Primary Systems**, this contractor shall provide rough-in, cabling, termination devices, and mounting boxes for the public address system as indicated in the project documents and coordinate interface requirements with the **Primary Systems.**
3. This Contractor shall review **Primary Systems**' proposal against project documents and include all omitted work needed for a complete system, including demolition and protection/reuse of existing circuits, and new work, terminations, programming and checkout.
4. The system shall be fully coordinated with other building systems and infrastructure, with provisions for dedicated power, raceways, and connections as required.
5. Through **Primary Systems**, this Contractor shall provide final terminations, startup, testing, programming, sound-level adjustment, certification and demonstration to Owner personnel in each affected room.

U. **ACCESS CONTROLS / SECURITY**

1. This Contractor shall provide access-control rough-in, boxes, pathways, Category 6 home runs, device wiring and connections to door hardware interface box. Owner shall provide head-end equipment, perform programming and final patch-panel connections.
2. This Contractor shall provide all access control panels, controllers, readers, request-to-exit devices, door position switches, and associated hardware not integral to door hardware provided by **General Trades**.
3. The Contractor shall coordinate with Division 08 for proper interface with doors and hardware, and with Division 26 for required power connections. Where new or existing doors are reinstalled, the Contractor shall reconnect and re-terminate access-control wiring to interface box; the Owner shall provide system programming and final patch-panel connections to restore functionality.
4. This Contractor shall provide a door interface box above the ceiling on the secure side of the opening. It shall also provide a 3/4-inch conduit from the door interface box to the door frame and a 3/4-inch conduit from the door interface box to the accessible portion of the ceiling, with pull strings in all conduits. Before rough-in, this Contractor shall coordinate the location of the interface box and the conduit entry into the frame with the General Trades Contractor, the architectural door hardware schedule and existing conditions. All rough-in shall follow the hardware manufacturer's recommendations. Where concealed conduit cannot be installed in existing solid masonry walls, this Contractor shall provide surface raceway.
5. This Contractor shall furnish and install a plenum-rated cable from each door interface box to the nearest MDF or IDF rack. Above accessible ceilings, cables shall be supported on J-hooks or cable tray. Above drywall ceilings and in rooms with exposed structure, cables shall run in conduit.
6. This Contractor shall terminate the door end of each home run on an RJ-45 female jack inside the door interface box. At the MDF/IDF, it shall route the cable into the rack and leave a labeled, supported service loop long enough for the Owner to make the final patch panel termination.
7. This Contractor shall connect the **General Trades Contractor's** door hardware cable in the door interface box.

8. The **General Trades Contractor** shall furnish and install all door hardware and electrified/security hardware listed in the door hardware schedule, including at aluminum-framed openings.
9. The **General Trades Contractor** shall also furnish and install cabling from the door hardware through the door and frame, and through this Contractor's 3/4-inch conduit, to the door interface box.
10. Card readers and electrified locking hardware are PoE-powered from Owner-furnished network equipment. Where the door hardware schedule or Contract Documents call for 120-volt power for electrified hardware, power supplies, automatic door operators or door holders, this Contractor shall provide it.
11. This Contractor shall permanently label each home run at the door interface box and at the MDF/IDF end. The label format shall be coordinated with Parkway IT before installation.
12. The Owner shall perform all access control system and link testing after making its final terminations, as well as functional door checkout. Before turnover, this Contractor shall verify the continuity of each Contractor-installed home run and correct any installation defects. This Contractor shall attend the Owner's integrated door checkout.
13. This Contractor shall furnish as-built documentation, cable test reports, and warranties for its access-control pathways and cabling. The Owner shall retain responsibility for system programming files, end-user training, and head-end documentation unless specifically assigned otherwise by the Contract Documents..

V. **VIDEO SURVEILLANCE (CCTV)**

1. Owner shall furnish and install/reinstall cameras and make camera/VMS configuration. This Contractor shall provide indicated Category 6 cabling, direct-attach connectors, service loops, pathways, boxes, supports and terminations, and coordinate camera locations/viewing angles with Parkway IT.
2. This Contractor shall provide a complete CCTV Video Surveillance System rough-in as indicated in the project documents. Work shall include all raceways, cabling, termination points.
3. The Contractor shall coordinate with Division 26 for required power connections and Division 27 for network integration where applicable. All cabling shall be tested, certified, labeled, and documented per manufacturer requirements and TIA/EIA and BICSI standards.

W. **FIRE ALARM**

1. This Contractor shall provide the complete Fire Alarm (FA) extension through **Owner Preferred Vendor (ABF, Inc.)** and include **ABF's** cost. Through **ABF**, provide all indicated fire-alarm demolition, conduit, wiring, equipment, devices, installation, relocation, terminations, programming, testing, demonstration, and closeout required for a complete accepted system.
2. Through **ABF**, Inc., this Contractor shall provide rough-in, cabling, termination devices, and mounting boxes for the FA system as indicated in the project documents and coordinate interface requirements with **ABF.**
3. This Contractor shall review **ABF's** proposal against the Contract Documents and include all omitted fire-alarm work required for a complete, accepted system, including demolition, devices, modules/relays, remote power supplies, conduit, wiring, dedicated power coordination, programming, testing and closeout.
4. Coordinate all initiating and notification appliances, manual pull stations, sprinkler/HVAC/elevator/access-control interfaces, monitor modules and control relays shown or required.
5. **This Contractor/ABF** shall prepare and submit all fire-alarm design documents required by NFPA 72 and the AHJ, including plans, risers, sequence/input-output matrix, circuiting, voltage-drop, battery and spare-capacity calculations, device data and certifications. Provide signed/sealed documents only if required by the AHJ.

6. This Contractor shall procure all required permits, approvals, and inspections from authorities having jurisdiction.
7. This Contractor shall verify and provide remote power supplies and related modules required for the indicated notification appliances and submit voltage-drop and battery calculations.
8. **This Contractor/ABF** shall finalize device quantities and locations necessary for code-compliant coverage, coordinate locations with field/ceiling conditions, and obtain Owner approval before installation without reducing devices shown.
9. This Contractor shall ensure the fire alarm system is fully operational, tested, and accepted prior to project closeout.
10. At WEM, **Fire Suppression contractor** shall furnish and install all water flow indicators, pressure switches, valve supervisory switches, tamper switches and all indicating valves as per NFPA 13 requirements. This Contractor shall provide rough-in, wiring, and program integration for all fire monitoring and alarm devices including all required monitoring modules.
11. This Contractor shall provide all fire alarm and smoke detection related equipment and devices required for a complete and functional fire alarm and smoke detection system.
12. This Contractor shall provide duct smoke detectors in return air ducts where indicated in the project documents.
13. This Contractor provide control relays near magnetic hold open devices and provide cabling and raceways to connect magnetic hold opens to FA system where indicated.
14. **General Trades Contractor** shall furnish and install magnetic door hold opens where indicated in the project documents. This Contractor shall make all FA and Power terminations to magnetic door hold opens where indicated in the project documents.
15. This Contractor shall provide all wiring, terminations, and system integration for Fire Suppression Automatic Air Vents in accordance with the project documents and manufacturer's instructions.
16. This Contractor shall maintain existing portions of the fire-alarm system in service until new portions are operational, tested and connected.
17. This Contractor shall provide elevator recall, shunt-trip, control-relay and monitor-module work where indicated, including coordination with elevator equipment, Division 26 power and the AHJ.

X. **SITE ELECTRIC**
1. Contractor shall remove electrical fixtures and disconnect to make safe existing site structures and furnishings scheduled for demolition
2. Contractor shall disconnect and remove existing site lighting scheduled for demolition.
3. This Contractor shall adjust existing electric pull boxes to revised grades where indicated.

1.19 BID PACKAGE 31A - SITEWORK & UTILITIES

A. **ALTERNATES**
1. Alternates associated with this Bid Package include the following:
   a. None at this time

B. **ALLOWANCES**
1. Allowances associated with this Bid Package include the following:
   a. None at this time

C. **SPECIFICATIONS**
1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
   a. 015713 – Temporary Erosion and Sediment Control
   b. 312200 – Grading
   c. 312316 – Excavation
   d. 312316.13 – Trenching

e. 312323 – Fill
f. 312500 – Erosion and Sedimentation Control
g. 321216 - Asphalt Paving
h. 321313 - Concrete Paving
i. 321723.13 - Painted Pavement Markings
j. 323113 - Chain Link Fences and Gates
k. 323119 - Decorative Metal Fences and Gates
l. 323223 - Segmental Retaining Walls
m. 334100 – Subdrainage
n. 334211 – Stormwater Gravity Piping
o. 334230 – Stormwater Drains

D. **SCOPE OF WORK GENERAL**

1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.

E. **SITEWORK GENERAL**

1. Contractor shall familiarize itself with existing site conditions to coordinate their work. This includes bringing site back to its original condition after underground utility work takes place. This also includes recognizing overhead utility locations and coordinating and/or providing line protection with local utility company to ensure safe working conditions.
2. Contractor is responsible for protecting existing site items shown to remain to prevent damage.
3. Contractor’s scope of work includes grading, pumping, dewatering and drainage swales along with other measures required to keep water from ponding on site and to allow site to drain during excavating and grading work.

F. **TEMPORARY WORK**

1. All work shall stay within the limits of disturbance (LOD) as shown on the plans and minimize disturbance within the work area wherever possible. Any excessive disturbance or disturbance outside of the LOD will be repaired and/or restored by this contractor at no additional cost to the owner.
2. This Contractor shall provide and maintain tree protection where indicated in the project documents.
3. This Contractor shall be responsible for providing and maintaining all necessary traffic control measures to ensure the safe and efficient diversion of vehicular and pedestrian traffic away from the designated work area throughout the duration of this scope of work. This includes, but is not limited to signage, barricades, cones, delineators, flagging personnel, and any other traffic control devices or personnel required to comply with applicable federal, state, and local regulations, as well as industry best practices. Upon completion of the work, the Contractor shall promptly remove all traffic control devices and restore the site to its original condition, unless otherwise directed.

G. **EROSION CONTROL**
1. This Contractor shall provide, maintain, and remove all erosion control BMPs including silt fence, inlet protection, check dams, temporary seeding, erosion control blankets, etc. as required by project SWPPP and as directed by local agencies.
2. This Contractor shall provide SWPPP inspections as required and provide required inspection forms to local agencies in accordance with the project documents.
3. This Contractor shall provide approved Land Disturbance Special Inspector as required to satisfy all permitting requirements.
4. This Contractor shall provide street cleaning, as required, during land disturbance activities.
5. This Contractor shall provide and maintain construction entrance in accordance with the SWPPP requirements.
6. This Contractor shall provide washdown station per SWPPP requirements.
7. This Contractor shall provide temporary storm sewers, and dewatering, as required throughout the project to ensure proper site drainage.
8. This Contractor shall provide temporary stabilization of disturbed areas until final landscaping and groundcover is installed. Contractor shall coordinate timing of sod placemement with the Construction Manager and provide the appropraite temporary stabilization measures accordingly.
9. **General Trades** shall provide sod at all disturbed areas, per the specified requirements, once ground disturbing activities are completed on the project.
10. This Contractor shall provide and maintain a minimum surplus (10%) of erosion control measures on site.

H. **SITE DEMOLITION**
1. This Contractor shall provide all site related demolition work shown in the site demolition (C Series) documents unless specified otherwise herein.
2. This Contractor shall remove, salvage, and re-install site furnishings designated for re-use where indicated.
3. This Contractor shall provide haul-off and lawful disposal of all demolished materials and equipment removed under this scope of work.
4. This Contractor shall perform saw cutting of existing pavement and sidewalks along straight lines or at the nearest joint, ensuring precise and clean edges for subsequent construction activities.
5. This Contractor shall remove all sidewalks, pavement, curbs and hardscapes where indicated in the project documents.
6. This Contractor shall remove concrete door stoops indicated in the project documents.
7. This Contractor shall remove all site furnishings wherever indicated in the project documents.

8. This Contractor shall remove existing traffic/parking signage where indicated in the project documents.
9. This Contractor shall remove all site fencing wherever indicated in the project documents. Contractor shall carefully dismantle fencing components, including posts, rails and mesh. Where specified, Contractor shall spool the chain-link mesh neatly and tie it off securely for future re-use.
10. This Contractor shall remove existing trees and shrubs, including stumps and root balls wherever shown, scheduled or otherwise indicated.
11. This Contractor shall protect limbs of trees to remain in work areas. Any limbs in conflict with work areas are to be pruned prior to commencement of work.
12. This Contractor shall provide root pruning as required for new trenches created by this scope of work.
13. **Electrical Contractor** shall disconnect and render safe any electrified site furnishing and/or site lightings scheduled for removal. This Contractor shall remove furnishings, fixtures, poles, and foundations once they are rendered safe.
14. This Contractor shall demolish existing canopies and structures where indicated.
15. Building related selective demolition shall be provided by others (typical).
16. This Contractor shall remove or abandon existing storm drainage piping, structures, and appurtenances where indicated. Remove abandoned storm piping unless the Contract Documents or the authority having jurisdiction permit it to remain; where permitted to remain, grout-fill and cap it as required, and backfill and compact resulting excavations.

I. **EARTHWORK**

1. This Contractor shall provide all clearing, grubbing, and removal of vegetation at areas indicated.
2. This Contractor shall provide rough grading of site to within +/- 0.1’ of specified grades, accounting for pavement and subbase thickness where applicable. Contractor shall haul-off or import materials as required to achieve proposed grade elevations.
3. This Contractor shall perform rough grading to establish the specified elevations for retaining wall construction, incorporating safe benching distances and designated reinforcement zone fill areas as indicated in the project documents.
4. This Contractor shall provide excavation, spoil removal, and grading including compaction to the density indicated for proposed playgrounds.
5. This contractor shall provide compacted drainage base at proposed playgrounds in accordance with the project documents.
6. The contractor shall provide topsoil at disturbed areas.

J. **PLAYGROUND CIVIL**

1. At ECC, this Contractor shall remove existing playground equipment, mulch surfacing, signage, foundations, footings, below-grade supports, and associated appurtenances to the extents indicated. Coordinate with the Owner before removal regarding any equipment designated for salvage. Mulch shall be removed, transported off site, and legally disposed of at a facility selected by the Contractor in accordance with all applicable local, state, and federal regulations.
2. This Contractor shall provide all excavation, earthwork, and rough grading required for the new playground areas, including preparation of subgrades and establishment of design elevations indicated in the Contract Documents.
3. This Contractor shall furnish and install all playground underdrain systems, drainage piping, drainage stone, geotextiles, outlets, fittings, and related components where indicated in the Contract Documents or as required to provide a complete and functional installation.
4. This Contractor shall furnish and install the compacted aggregate subdrainage layer beneath playground surfacing systems to the elevations indicated in the Contract Documents, maintaining sufficient depth and tolerances required for the specified poured-in-place surfacing and associated playground systems.

5. This Contractor shall coordinate with the **Playground Equipment & Surfacing Installer (N.I.C.)** to establish and maintain proper aggregate and finish-grade elevations necessary to achieve required critical fall heights, accessibility requirements, equipment installation criteria, and manufacturer recommendations.
6. This Contractor shall complete grading operations and turn over playground areas at the required subgrade and aggregate elevations necessary to facilitate installation of playground equipment, foundations, footings, and related work by others
7. The **Playground Equipment & Surfacing Installer (N.I.C.)** shall be responsible for final adjustment and fine grading of aggregate surfacing materials disturbed by the installation of playground equipment, footings, foundations, and related work, as required to restore design elevations, critical fall height requirements, and finished surfacing elevations

K. **UTILITIES GENERAL**
1. All utility related work must comply with St. Louis County and Metropolitan Sewer District specifications and requirements.
2. Utilities must remain in continuous service unless written permission is received from the owner to allow interruption of service.
3. Contractor shall coordinate and arrange for the disconnection of any utilities and equipment with the Owner and Utility Companies as required.
4. This Contractor shall provide backfill at utility trenches in accordance with the project documents.
5. This Contractor shall provide all trench protection required for utility work.
6. This Contractor shall provide all temporary fencing or barriers required for trench utility work in accordance with OSHA and Construction Manager's Safety Program requirements.
7. Contractor shall be responsible for maintaining all required separations of water and sanitary/storm/combined sewer.
8. This Contractor shall provide saw cutting, demolition, trench backfill, compaction, and prepared subgrade for pavement, curb, and sidewalk disturbed by its utility work. Permanent concrete restoration is by Bid Package 01 and asphalt restoration is by Bid Package 32A unless specifically indicated otherwise.

L. **STORMWATER UTILITIES**
1. This Contractor shall provide temporary storm water control measures at areas of storm water removal/modification as required to prevent ponding during construction until tie in of new permanent storm sewer system is completed.
2. This Contractor shall provide a complete storm sewer system as specified in the project documents, including all necessary excavation, backfilling, piping, storm structures, and associated components. The work shall comply with design requirements, industry standards, and applicable regulations.
3. Temporary stabilization measures shall be implemented throughout the duration of the work to prevent erosion and maintain site stability.
4. All work shall be completed in a manner that ensures the proper functionality and durability of the storm sewer system.
5. This Contractor shall modify existing storm sewer structures as required to adjust for new grades in accordance with the project documents.
6. This Contractor shall provide storm drain connection to downspouts including downspout collector and clean-outs where indicated.
7. At WEH, this Contractor shall provide yard drains and solid collector piping connecting retaining-wall underdrains to the storm sewer system where indicated. Retaining-wall drainable backfill and internal wall underdrains are by Bid Package 01.
8. This Contractor shall provide stone revetments in accordance with the specified requirements where indicated.

9. This Contractor shall provide new playground storm and subdrainage system in accordance with the project documents.
10. This Contractor shall investigate existing storm line at ECC Playground and report any upstream connections to Construction Manager.
11. This Contractor shall provide french drains where indicated including excavation, filter fabric, perforated drain pipe, rock fill, and topsoil replacement.

1.20 BID PACKAGE 32A - ASPHALT PAVING

A. **ALTERNATES**
1. Alternates associated with this Bid Package include the following:
   a. None at this time

B. **ALLOWANCES**
1. Allowances associated with this Bid Package include the following:
   a. None at this time

C. **SPECIFICATIONS**
1. Specifications that relate to this bid package include all of Division 00 and Division 01 specification sections and particularly specification sections:
   a. 321123 – Aggregate Base Courses
   b. 321216 – Asphalt Paving
   c. 321723.13 - Painted Pavement Markings

D. **SCOPE OF WORK GENERAL**
1. All notes on the plans pertaining to the below scope of work shall be included as part of this bid package.
2. This contractor understands this project may be completed in multiple phases in accordance with the overall project schedule over multiple mobilizations. This contractor shall review the overall project schedule and phases to ensure that appropriate manpower will be provided for each phase.
3. All Bid Packages to include all General Provisions and Special Conditions as noted in Articles 1.6 & 1.7 above.
4. This Contractor shall provide all work from the specification sections listed within this Bid Package unless specific exclusions are otherwise noted.
5. This Contractor shall field verify existing conditions prior to the commencement of work. Any discrepancies shall be brought to the attention of the Architect/Engineer/Construction Manager.
6. This Contractor is responsible for dust control and sound control measures required for the execution of this Bid Package scope of work.
7. Each Contractor shall be responsible for the daily collection and consolidation of all waste generated by their work to a designated central pile or trash receptacle, provided by **Construction Manager**, within each work space.
8. Contractor shall take care not to damage previously completed work. Any damage caused to existing building/structures by work of this Bid Package shall be repaired by this Bid Package Contractor.
9. Each Trade Contractor shall be responsible for additional costs associated with work resulting from its use of equipment/material other than that specified in the project documents. Costs for other trade contractors work to accommodate these variations shall be the responsibility of the responsible trade contractor. Approval of shop drawings does not relieve the trade contractor of this responsibility.

E. **TRAFFIC SIGNAGE**
1. This Contractor shall provide all new and relocated traffic and parking signage, including excavation, concrete bases, and sign posts where indicated.

2. This Contractor shall install salvaged/relocated signage where indicated in the project documents. Where required, contractor shall provide new posts, mounting hardware, and foundations for relocated site signage
3. This Contractor shall provide all precast concrete wheel stops wherever shown, scheduled, or otherwise indicated in the project documents.

F. **ASPHALT PAVING**
1. This Contractor shall include a minimum of two (2) mobilizations to complete asphalt paving work.
2. This Contractor shall provide all asphalt paving, including final grading from a ±0.10' rough grade, granular base courses, binder courses, and surface courses to specified thicknesses, as indicated in the project documents, ensuring compliance with all pavement type requirements.
3. This Contractor shall coordinate asphalt grades, ADA slopes, sawcut limits, and pavement tie-ins with adjacent concrete curbs, walks, ramps, and detectable warning surfaces provided by Bid Package 01. Accept the prepared subgrade before placing aggregate base and asphalt paving.
4. This Contractor shall provide asphalt playgrounds where indicated in the project documents.
5. This Contractor shall provide any street paving patches at utility trenches per governing authorities standard details/requirements.

G. **MILL & OVERLAY**
1. This Contractor shall mill, overlay, and restripe existing asphalt pavement within the "Mill and Overlay Extents" indicated in the project documents.
2. This Contractor shall load, haul, and legally dispose of all millings and debris off site.
3. This Contractor shall repair any cracks in pavement per specification 321216.
4. This Contractor shall provide tack coat where indicated.

H. **PAVEMENT MARKINGS**
1. This Contractor shall provide all pavement markings where indicated in the project documents.
2. This Contractor shall paint new and existing curbs where indicated in the project documents.

1.21 PROJECT SCHEDULE

A. Contractor shall perform the contract work in accordance with the Construction Manager Schedule.

1.22 CONCURRENT WORK

A. Work to be scheduled and coordinated with other work being performed concurrently with this work.

1.23 COORDINATION OF WORK

A. Contractor shall verify dimensions and elevations of work performed under previous contracts. Contractor shall notify the Construction Manger immediately of any conflict in elevation or dimension. Verification shall be done in advance so Contractor's work is not delayed.

B. This Contractor shall be responsible for repair and/or replacement of work of other Contractors damaged by the Contractor's work.

C. Protect all work from collecting water and any water damage.

1.24 CONTRACT METHOD

A. The Owner intends to:
1. Award separate contracts for each Bid Package in connection with this project, and assign those contracts to the Construction Manager.

2. To provide a full-time Construction Manager acting as defined in the AIA Document A134-2009 and A201-2007.

B. Separate contracts shall be awarded for each Bid Package that represents significant elements of the work. Contractor work shall be performed concurrently with and/or in close coordination with work performed on the project by other Contractors.

C. Each Contractor is required to review all contract documents to determine scope of work, to be familiar with other Contractor responsibilities and report any inconsistencies or discrepancies immediately.

D. The extent of work of each Contract is briefly enumerated under “Statement of the Work” but is not necessarily limited to the summary description.

1.25 WORK RESTRICTIONS

A. On-Site Work Hours: Work shall generally be performed during normal business working hours of 6:00 AM to 5:00 PM, Monday through Friday, accept when otherwise indicated.

B. Existing Utility Interruptions: Do not interrupt utilities servicing facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1.26 SPECIFICATION FORMATS AND CONVENTIONS

A. Specification Format: The specifications are organized into Division and Sections using the 32-Division format and CSI/CSC “MasterFormat” numbering system.
   1. Section Identification: The Specifications use Section numbers and titles to help cross-referencing in the Contract Documents. Sections in the Project Manual are in numeric sequence; however, the sequence is incomplete because all available Section numbers are not used. Consult the table of contents at the beginning of the Project Manual to determine numbers and names of Sections in the Contract Documents.
   2. Division 1: Sections in Division 1 govern the execution of the Work of all Specification Sections

B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
   1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
   2. Imperative mood and streamlined language are generally used in the Specifications. . Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
   3. The words “shall”, “shall be”, or “shall comply with,” depending on the context, are implied where a colon (:) is used within a sentence or phrase.

1.27 CONTRACTOR USE OF PREMISES

A. Confine operation at site to areas permitted by:
   1. Law
   2. Permits
   3. Contract
      a. Confer with Construction Manager and obtain full knowledge of all site rules and regulations affecting work.
      b. Conform to site rules and regulations while engaged in project construction.

c. Site rules and regulation take precedence over others that may existing outside such jurisdiction.
d. Employee List: The Construction Manager may examine Contractor's list of employees, including those of his Sub-Contractors and their agents.
e. Vehicle Use: Rigidly enforce the following:
    1) Keep all vehicles, mechanized or motorized equipment, locked at all times when parked and unattended on Owner's premises.
    2) Do not, under any circumstance, leave any vehicle unattended with motor or engine running, or with ignition key in place.
    3) Parking: Permitted only in areas designated by Construction Manager.
    4) All traffic control subject to Construction manager's site representative approval.

B. Do not unreasonably encumber site with materials and equipment

C. Assume full responsibility for protection and safekeeping of products stored on premises.

D. Move all stored products or equipment which interferes with operations of Owner or other Contractors.

E. Obtain and pay for use of additional storage or work needed for operations.

F. Use of Site: Exclusive and complete, for execution of work, except as otherwise indicated or directed by the Construction Manager.

G. Construction Manager will allow reasonable access to the site and shall not prohibit nor interfere with lawfully conducted inspections of site visits by properly identified representatives of regulatory agencies or collective bargaining units.
    1. Notwithstanding the above, Owner regulation governing site security shall be observed.
    2. All site visitors shall comply with personal protection regulations, including hard hats and safety eyewear.
    3. Reasonable proof of identification and signature to the visitor's log shall be required of the visitors by the Construction Manager's site representative.

H. Fire Protection:
    1. Fires: Each Contractor shall prohibit the lighting of fires about the premises and use due diligence to see that such prohibition is enforced. Debris and waste materials shall not be burned at the construction site but shall be promptly removed to prevent the accumulation of combustibles on the site or within the building.
    2. Welding and Cutting: It shall be the responsibility of each Contractor to take precautionary measures to prevent fire.
    3. Heaters: The heaters in Contractor's job offices shall be properly installed to protect combustible walls, floors, and roof. Salamander heaters or other types of open flame heaters shall not be used except whit the special permission of the Construction Manager and then only when such salamander or open flame heaters are maintained under constant supervision.
    4. Flammables: Gasoline and other fuels shall be kept and handled in accord with NFPA and in UL Listed and Labeled Safety Cans and shall be stored away from hazardous work areas.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION 011010

Project Information Form

This Project Information Form is provided to assist in defining the asbestos abatement scope of work and to convey information necessary for the abatement contractor to prepare a proposal. This document is intended as a supplement to the contract documents and does not supersede, nor relieve the contractor of, its obligations and responsibilities under applicable federal, state, and local regulations, or the requirements identified in the Project Manual.

BID DUE DATE / TIME:	See invitation to bid
PROJECT TITLE:	Parkway West High School – Building Renovation & Site Improvements
PARKWAY PROJECT:	542501B

Today's Date: October 19, 2026 **Drawings Attached:** Yes

Megan Kienker
Missouri Accredited Project Designer #711082126MOPDR21662

1. INTRODUCTION

This project has been designed by an Asbestos Hazard Emergency Response Act (AHERA) accredited and State of Missouri licensed asbestos project designer.

This Asbestos Abatement Project Information Form has been prepared to comply with applicable regulatory requirements, including the U.S. Environmental Protection Agency (EPA) Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61, Subpart M, the Asbestos Hazard Emergency Response Act (AHERA), 40 CFR Part 763, the Missouri Department of Natural Resources (MDNR), and the St. Louis County Asbestos Abatement Rules and Regulations.

2. SCOPE OF WORK

The Scope of Work includes the proper abatement and disposal of all asbestos-containing materials (ACM) and lead-based paint (LBP) as noted in the project documents and additional abatement and disposal of these materials necessary to facilitate changes in the scope of work should they occur.

The scope of work includes the proper removal, cleanup, and disposal of the following approximate quantities of asbestos:

Area A: Locker Rooms

- 3,300 square feet of floor tile and mastic
- 9,509 square feet of acoustical ceiling material (includes 40% additional square footage to account for waffle ceilings)
- 1,515 square feet of drywall ceilings
- Approximately 120 each of pipe insulation fittings (additional fittings may be present behind wall chases and ceilings)
- 10 each of speaker and/or clock assembly

- 8 each of mirrors with adhesive
- 1 each of sink with undercoating
- 7 each of wallboards with adhesive
- 34 each of fire doors
- 2,665 square feet of LBP ceramic tile walls

Area B: Pool

- 2 each of fire doors

Area C: Restrooms 1213 and 1215

- Approximately 15 each of pipe insulation fittings (additional fittings may be present behind wall chases and ceilings)
- 2 each of mirrors with adhesive
- 2 each of fire doors

Area E: Wrestling Room 2700

- 3,500 square feet of floor tile and mastic

Doors and Windows

- 30 linear feet of louver caulking at Door 1601
- 2 each of fire doors at Door 1601
- 3 cubic feet of vermiculite insulation at Door C1O
- 18 cubic feet of vermiculite insulation at Windows C1M
- 3 cubic feet of vermiculite insulation at Window C1N

The above quantities are estimates only. The Asbestos Abatement Contractor is responsible for field verifying quantities and site conditions.

3. CONTAINMENT

Area A: Locker Rooms

It is anticipated that a full negative pressure containment(s) will be utilized for the removal of floor tile and mastic, acoustical ceiling material, drywall ceilings, speaker and/or clock assembly mastic, wallboard adhesive, mirror adhesive, and sink undercoating within Area A. Critical barriers will be installed to separate and define the work area(s) from the rest of the facility. Where acoustical ceiling material and drywall ceilings are to be removed, the Contractor will install two (2) layers of polyethylene on the floor and a drop cloth. The Contractor will use manual methods and/or hand tools to remove the acoustical ceiling material

throughout the work area; mechanical methods will not be permitted. It is anticipated that negative pressure glovebags will be utilized for the removal of pipe insulation fittings. The containment(s) will consist of critical barriers, barrier tape, two (2) layers of 6-millimeter polyethylene on the walls, two (2) layers of 6-millimeter polyethylene on the floors where applicable, one (1) layer of 6-millimeter polyethylene on the ceiling where applicable, drop cloths, 5-stage decontamination unit(s), HEPA-filtered negative air machines, negative pressure, and proper signage.

It is anticipated that modified containments will be utilized for the removal of LBP ceramic tile walls within the shower rooms and restrooms. Critical barriers will be installed at each opening, and tacky mats will be utilized at the entry into each containment. The Contractor will demolish LBP ceramic tile walls. The containments will consist of critical barriers, barrier tape, tacky mats, one (1) layer of 6-millimeter polyethylene on the ceiling, two (2) layers of 6-millimeter polyethylene on the floor, drop cloths, decontamination unit with wash station, and proper signage.

Area B: Pool

It is anticipated that the removal of the fire doors will be completed as intact removal and visual clearance will be completed by Parkway's representative.

Area C: Restrooms 1213 and 1215

It is anticipated that glovebags will be utilized for the removal of pipe insulation fittings and a modified mini containment will be utilized for the removal of mirror mastic within each restroom. The fire doors will be removed intact. A decontamination unit with wash station will be installed at each restroom containment. The containments/work areas for pipe insulation removal will consist of critical barriers, barrier tape, negative pressure glovebags, drop cloths, localized HEPA-filtered negative air machines, decontamination unit with wash station, and proper signage. In addition, the mini containments for mirror mastic removal will consist of one (1) layer of 6-millimeter polyethylene on the walls and ceiling, two (2) layer of 6-millimeter polyethylene on the floor, HEPA-filtered negative air machine, negative pressure, decontamination unit with wash station, and proper signage.

It is anticipated that modified containments will be utilized for the removal of LBP ceramic tile walls within the restrooms. Critical barriers will be installed at each opening, and tacky mats will be utilized at the entry into each containment. The Contractor will demolish LBP ceramic tile walls. The containments will consist of critical barriers, barrier tape, tacky mats, one (1) layer of 6-millimeter polyethylene on the ceiling, two (2) layers of 6-millimeter polyethylene on the floor, drop cloths, decontamination unit with wash station, and proper signage.

Area E: Wrestling Room 2700

It is anticipated that a full negative pressure containment will be utilized for the removal of floor tile and mastic within Wrestling Room 2700. The containment will consist of critical barriers, barrier tape, two (2) layers of 6-millimeter polyethylene on the walls, one (1) layer of 6-millimeter polyethylene on the ceiling, drop cloths, 5-stage decontamination unit, HEPA-filtered negative air machines, negative pressure, and proper signage.

Door 1601

It is anticipated that a regulated area will be utilized for the removal of exterior louver caulking. A critical barrier will be installed on the interior side of the louver opening, which includes a door entry. Additionally, drop cloths will be installed on the interior and exterior side of the louver opening. The Contractor will

salvage the louver and return to Parkway. Additionally, the Contractor will install a plywood hard barrier at the louver opening for security purposes. The containment/work area will consist of a critical barrier on the inside of the louver opening, one (1) layer of 6-millimeter polyethylene drop cloth, localized negative air machines, barrier/warning tape, and proper signage.

It is anticipated that the removal of the fire doors will be completed as intact removal and visual clearance will be completed by Parkway's representative.

Door C1O and Windows C1M and C1N

The removal of door and window frames may result in the release of vermiculite insulation from the CMU. It is anticipated that outdoor removal will be utilized for the removal of vermiculite insulation. Critical barriers will be installed on the interior of the building at each door opening. The work area will be defined by installing barrier tape and drop cloths. After removing the door and door or window frames, HEPA vacuum vermiculite insulation debris that fell during door frame removal (if any). In addition, the Contractor will remove as much vermiculite insulation as possible in any opening or gap in the CMU on all sides, including the header of the door opening using a HEPA vacuum. Any gaps or openings will be sealed using a foam sealant and/or caulking. The containments/work areas will consist of a critical barrier in the interior of each door or window opening, barrier tape, one (1) layer of 6-millimeter polyethylene drop cloth, a localized negative air machine, and proper signage.

HEPA-filtered negative air machines will be exhausted to the exterior (for each containment), where possible, via windows (which shall have a plywood barrier installed for security purposes, if necessary. Proper signage, barrier tape, etc. shall be installed at all entrance/exit locations to the work areas.

There may be electrical, mechanical, plumbing, low-voltage/data, or fire alarm systems that serve areas outside the Scope of Work or are intended to remain in service. The Contractor shall protect all such systems. The Contractor shall provide temporary power panel(s) for its use, if required, and shall inform Parkway of the panel's electrical requirements. Parkway will perform connection and disconnection of power to the temporary panel(s); the Contractor shall provide all required cabling. Advance notice is required, preferably a minimum of 48 hours.

Access to water shall be coordinated between the Contractor and Parkway.

After completion of the removal work and clean-up, the Contractor shall request a visual inspection from Parkway's representative. Transmission Electron Microscopy (TEM) clearance samples will be utilized for final clearance air samples in each containment/work area of Area A and Area E. Phase Contrast Microscopy (PCM) in-progress clearance samples will be utilized for final clearance air samples in each containment/work area of Area C, Door 1601, Door C1O, and Windows C1M and C1N.

Additionally, after completion of the LBP removal and clean-up, a final clearance lead-wipe sample will be collected on the floor in each containment/work area.

4. SCHEDULE

Timing is very important for this project so that renovation activities may proceed. A 10-day notification may be required for this project. The Contractor is responsible for submitting the notification to the St. Louis County Department of Health, including waiver requests, if necessary.

Multiple Shifts Allowed: Yes: X No: ____ Extended Shifts: _____

It is the Contractor's responsibility to include in its bid all overtime and/or shift differential premium costs necessary to perform the Work within the time scheduled established in the Project Manual. No claims for overtime or shift differential premium costs required to perform the Work as specified in the bid documents will be allowed. This provision does not apply to claims associated with changes to the Contract Documents issued after award of the Contract.

5. CLEARANCE SAMPLING

TEM (Minimum 6-hour Turnaround after receipt acknowledged by laboratory) *(Whenever asbestos quantities exceed 160 sf or 260 lf)*	Yes: X	No: ____
PCM In-Progress (Project Specific – Minimum 2-hour Turnaround) *(At Consultant's discretion)*	Yes: X	No: ____
PCM (Minimum 6-hour Turnaround after receipt acknowledged by laboratory)	Yes: ____	No: X
Lead Wipe (Minimum 6-hour Turnaround after receipt acknowledge by laboratory) *(Clearance criteria is 5.0 µg/ft² of lead or less)*	Yes: X	No: ____

6. WORKER PROTECTION

All workers entering the work areas shall wear, at a minimum, disposable suits and 1/2 mask respirators equipped with HEPA filters. When leaving the work area for any reason, all workers shall perform proper decontamination procedures. All applicable NESHAP, OSHA, State, and local requirements shall be strictly followed.

7. MINIMUM REGULATED AREA REQUIREMENTS

These minimum requirements do not supersede applicable regulations.

- **Area A – Locker Rooms:** Full Negative Pressure Containment – Critical barriers, two (2) layers of 6-mil polyethylene sheeting on walls, two (2) layers of 6-mil polyethylene sheeting on floors, one (1) layer of 6-mil polyethylene sheeting on ceiling, polyethylene drop cloths, HEPA-filtered negative air machine(s) vented outside, 5-stage "wet" decontamination unit, waste/equipment load-out, and proper signage.
- **Area C – Restrooms 1213 & 1215:** Glovebag – Critical barriers, barrier tape, negative pressure glovebags, polyethylene drop cloths, localized HEPA-filtered negative air machine vented outside, and proper signage.
- **Area C – Restrooms 1213 & 1215:** Mini-Containment – Barrier tape, one (1) layer of 6-mil polyethylene sheeting on walls and ceiling, two (2) layers of 6-mil polyethylene sheeting on floors, polyethylene drop cloths, HEPA-filtered negative air machine vented outside, washing station, and proper signage.
- **Area E – Wrestling Room 2700:** Full Negative Pressure Containment – Critical barriers, two (2) layers of 6-mil polyethylene sheeting on walls, two (2) layers of 6-mil polyethylene sheeting on floors, one (1) layer of 6-mil polyethylene sheeting on ceiling, polyethylene drop cloths,

HEPA-filtered negative air machine(s) vented outside, 5-stage "wet" decontamination unit, waste/equipment load-out, and proper signage.

- **Door 1601 Louver Opening:** Regulated Area – Critical barrier, barrier tape, 6-mil polyethylene drop cloths (interior and exterior), localized HEPA-filtered negative air machine vented outside, and proper signage. If approved as an outdoor abatement by St. Louis County, the HEPA-filtered negative air machine is not needed.
- **Door C1O, Windows C1M, & Window C1N:** Modified Containment (Outdoor) – Critical barriers, one (1) layer of 6-mil polyethylene drop cloths, localized HEPA-filtered negative air machine(s) vented outside, and proper signage.
- **LBP Ceramic Tile Walls Removal:** Modified Containment – Critical barriers, barrier tape, tacky mats, one (1) layer of 6-mil polyethylene on the ceiling, two (2) layers of polyethylene sheeting on the floor, polyethylene drop cloths, decontamination unit, wash station, and proper signage.

8. DISPOSAL

The Contractor shall label all bags, drums, closed top poly-lined lockable dumpsters, box trucks, and any and all other waste containers in accordance with AHERA, OSHA, Department of Transportation, the National Emission Standards for Hazardous Air Pollutants (NESHAP) issued by USEPA, and any other regulations pertaining to the disposal of asbestos-containing materials and/or debris. Waste Shipment Records shall be prepared and maintained in accordance with NESHAP and any State or local regulations governing the disposal of asbestos. These Waste Shipment Records shall be signed legibly by all required parties. All asbestos-containing material and wastes shall be disposed of at a landfill authorized to accept such wastes. The Waste Manifest shall identify the grid area where the asbestos from this Project is disposed.

LBP debris shall be secured in an enclosed, leak-proof container and stored onsite. Parkway's representative will submit a sample for a Toxicity Characteristic Leaching Procedure (TCLP) to determine if the debris is classified as Hazardous waste (which will need to be disposed of at a Hazardous Waste landfill) or Non-Hazardous waste (which can be disposed of as construction debris).

9. ADDITIONAL INFORMATION

Special Health and Safety Concerns:

Confined Space		Hot Work (Fire Watch)	
Heat Stress / Stroke	X	Electrical – Lock & Tag	X
Heights / Fall Protection	X	Chemical	
Parkway Approved Solvents *(Attack 2000, MA-22, MA-24)*	X	Other:	

Special Requirements:

All contractor personnel must have completed OSHA 10 or 30-hour training and have a current badge issued by Parkway prior to arriving onsite. If the Contractor uses solvents to abate mastic, they must use one of the approved solvents listed above. The Contractor shall secure openings with lumber where negative air machine exhaust tubing exits building.

Coordination:

Other contractors working in the area? Yes: X No: _____

Other contractors working simultaneously throughout the facility.

Coordination with other contractors required? Yes: X No: _____

The Construction Manager will coordinate work activities of contractors.

Comments:

The Contractor shall perform asbestos abatement work in accordance with this Project Information Form (PIF), the Asbestos Abatement Drawings assembled on October 19, 2026, the Project Manual for Parkway West High School – Building Renovation and Site Improvement Project, Parkway #542501B, the Bond Architects, Inc. reference drawings and all Addenda issued.

The Contractor is advised that if it identifies any condition that it believes constitutes a change or addition to the Scope of Work that may require additional compensation, the Contractor shall Parkway immediately by email, but no later than twenty-four (24) hours after discovery of the condition.

The Contractor shall document, photograph, and promptly notify Parkway's Representative of any pre-existing damage observed within or adjacent to the work areas prior to the start of work. The Contractor may be held responsible for damages identified after completion of the work that were not documented before work commenced.

Not all work areas included in this PIF Scope of Work have been photographed. The photographs included are representative and are provided to illustrate the work and/or work areas and provide the Contractor with additional information.

10. CLOSEOUT DOCUMENTATION

The abatement contractor shall submit the following documentation to the Owner's Representative prior to beginning preparatory activities and at the end of the project and prior to final payment:

Contract Administration

A. Contractor's Name and Address
B. Contractor's Proof of Missouri State Registration
C. Notification to MDNR/St. Louis County along with the approval letter, if required
D. Insurance Certificates

Project Summary

A. Locations and Quantities of the Work performed
B. Dates when the work was performed
C. Methods used to complete the work (Work Plan)
D. Name of Contractor's Supervisor
E. Name and Missouri Certifications of all Supervisors and Workers
F. Supervisors' and Workers' Medicals and Certificates of Acknowledgement

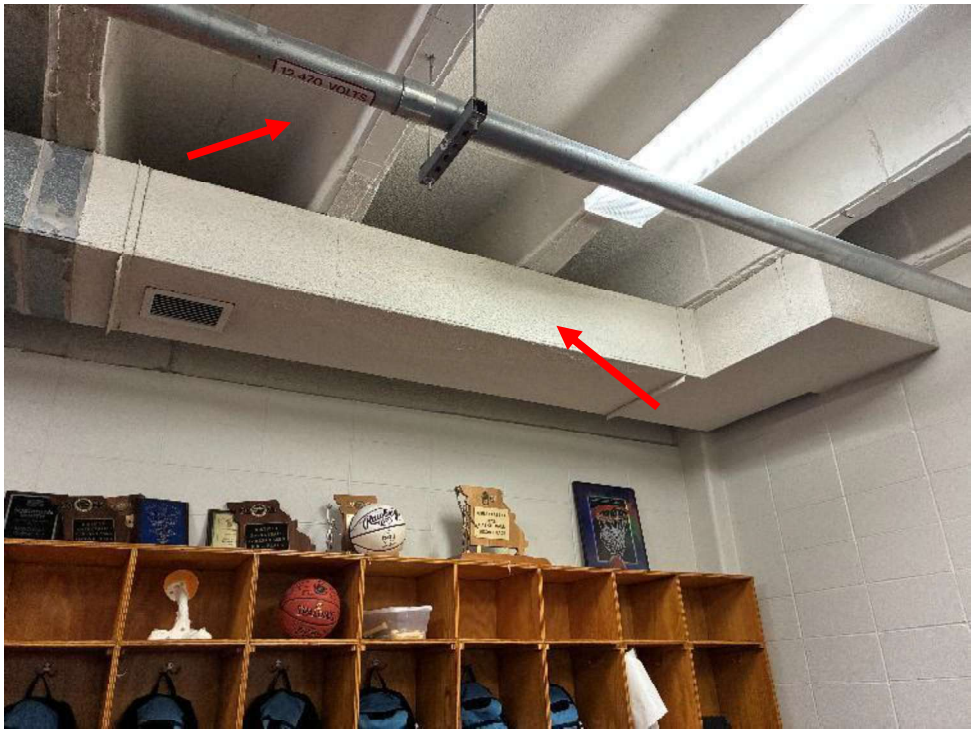
G. Respirator fit tests for all Supervisors and Workers
H. Contractor's daily log report
I. Enclosure entry/exit log
J. Fully executed Waste Manifest(s), landfill receipts and Chain of Custody
K. Air monitoring results

The items listed in the Contract Administration section and items D, E, F and G in the Project Summary section must be reviewed prior to beginning work on this project. Any supervisor(s) or worker(s) not having this documentation will not be allowed to work on this project until such documentation is provided to the on-site representative.

The Abatement Contractor's project closeout documentation must be submitted to Owner's Consultant no later than 45 days after the last date worked by Abatement Contractor at the subject project site.

Parkway West High School – Building Renovations
Abatement Scope of Work Photographs
Pinchin File No. R262.00457.006
Location: 14653 Clayton Road, Ballwin, MO 63011

Photograph 1



Abate 9,509 square feet of asbestos-containing acoustical ceiling material throughout the locker rooms and as indicated on drawings.

Note: 9,509 SF includes 40% additional square footage to account for waffle ceilings.

Photograph 2



Abate approximately 120 asbestos-containing pipe insulation fittings throughout work areas. It is anticipated that pipe insulation fittings are present within wall chases behind toilets, urinals, and sinks.

Parkway West High School – Building Renovations
Abatement Scope of Work Photographs
Pinchin File No. R262.00457.006
Location: 14653 Clayton Road, Ballwin, MO 63011

Photograph 3



Abate drywall ceilings and pipe insulation behind shower fixtures. Demolish LBP ceramic wall tiles.

Photograph 4



Remove wallboard and abate adhesive throughout work areas.

Parkway West High School – Building Renovations
Abatement Scope of Work Photographs
Pinchin File No. R262.00457.006
Location: 14653 Clayton Road, Ballwin, MO 63011

Photograph 5



Remove speaker and/or clock assemblies throughout work areas.

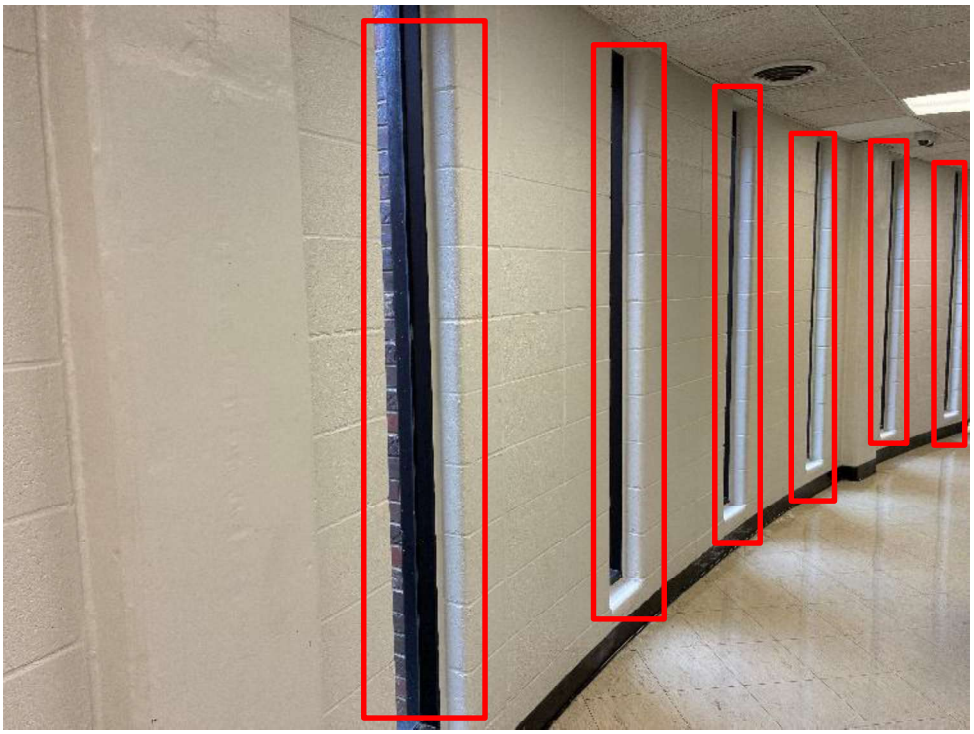
Photograph 6



Abate approximately 3,500 square feet of asbestos-containing floor tile and mastic within Wrestling Room 2700.

Parkway West High School – Building Renovations
Abatement Scope of Work Photographs
Pinchin File No. R262.00457.006
Location: 14653 Clayton Road, Ballwin, MO 63011

Photograph 7



View of C1M Windows. Remove windows and window frames. HEPA vacuum vermiculite insulation debris that fell during the window frame removal (if any). In addition, HEPA vacuum as much vermiculite as possible in any opening or gap in the CMU on all sides of the opening. Seal any opening or gap with foam sealant or caulking.

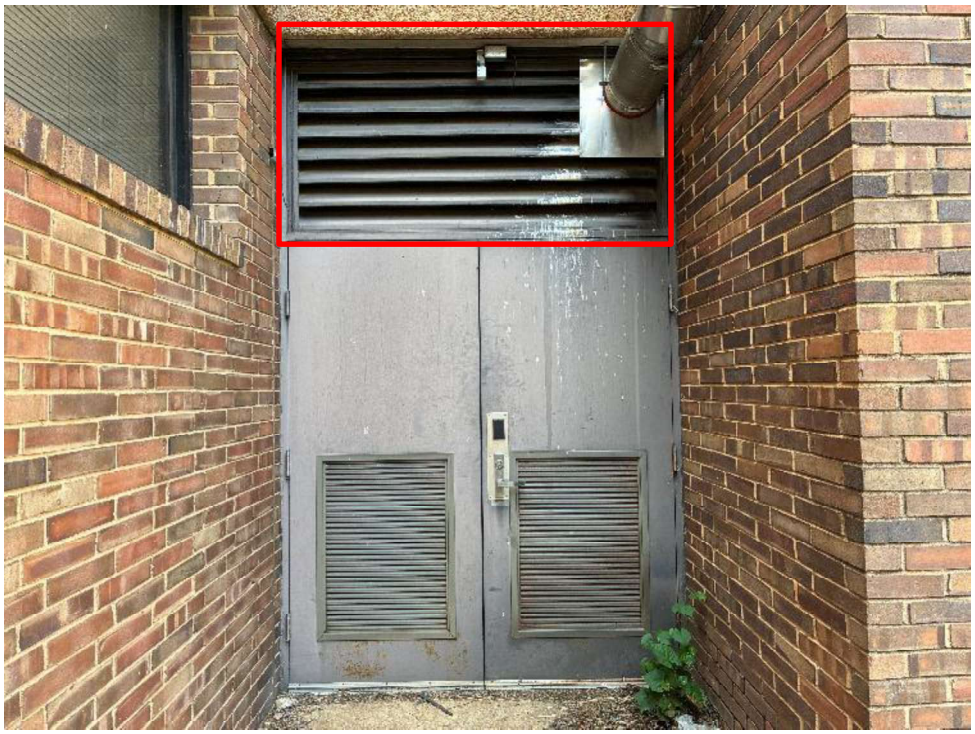
Photograph 8



View of C1N Window. Remove window and window frame. HEPA vacuum vermiculite insulation debris that fell during the window frame removal (if any). In addition, HEPA vacuum as much vermiculite as possible in any opening or gap in the CMU on all sides of the opening. Seal any opening or gap with foam sealant or caulking.

Parkway West High School – Building Renovations
Abatement Scope of Work Photographs
Pinchin File No. R262.00457.006
Location: 14653 Clayton Road, Ballwin, MO 63011

Photograph 9



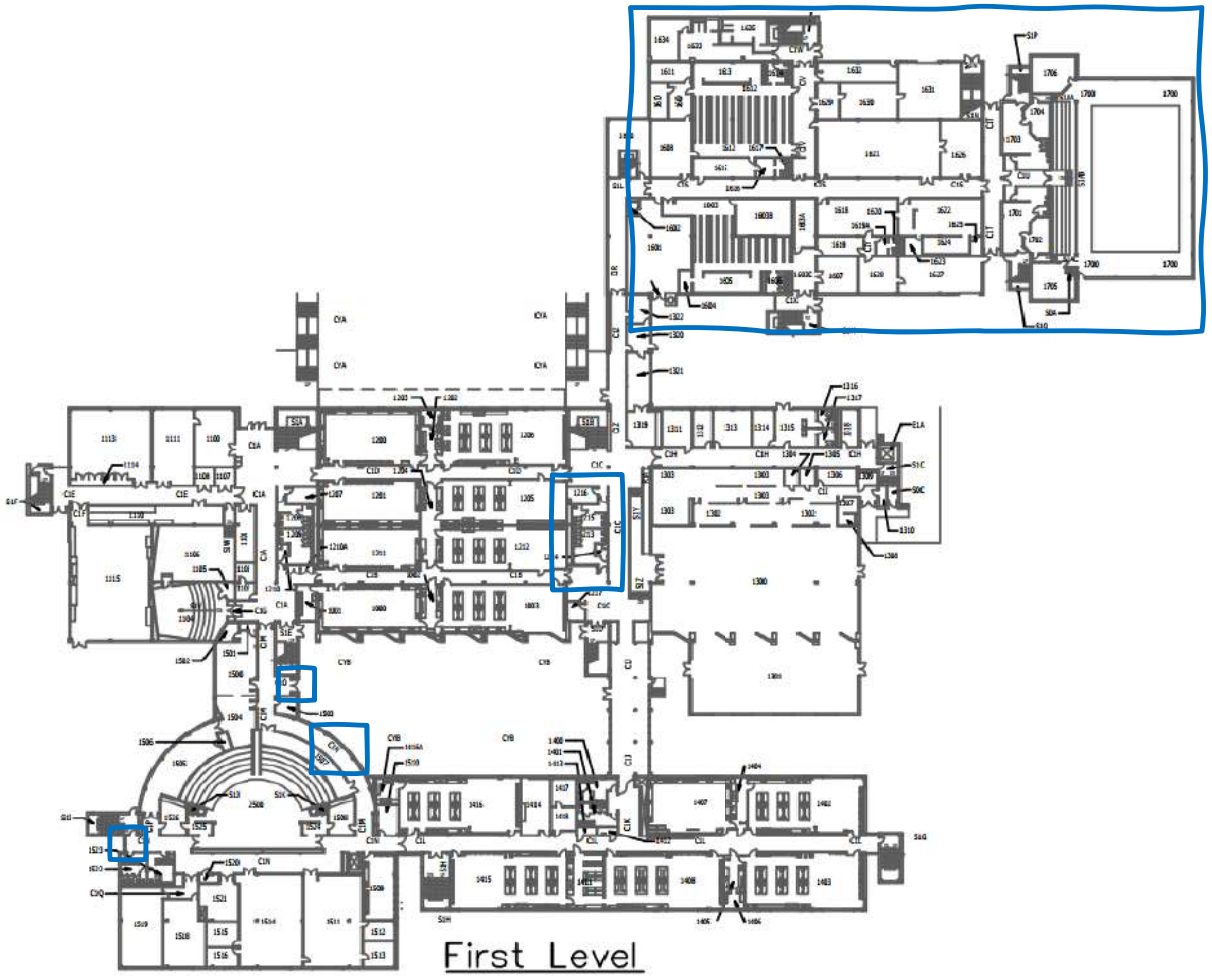
View of Door 1601. Abate approximately 30 linear feet of asbestos-containing exterior louver caulking. Remove fire doors and dispose of as asbestos-containing waste.

Photograph 10



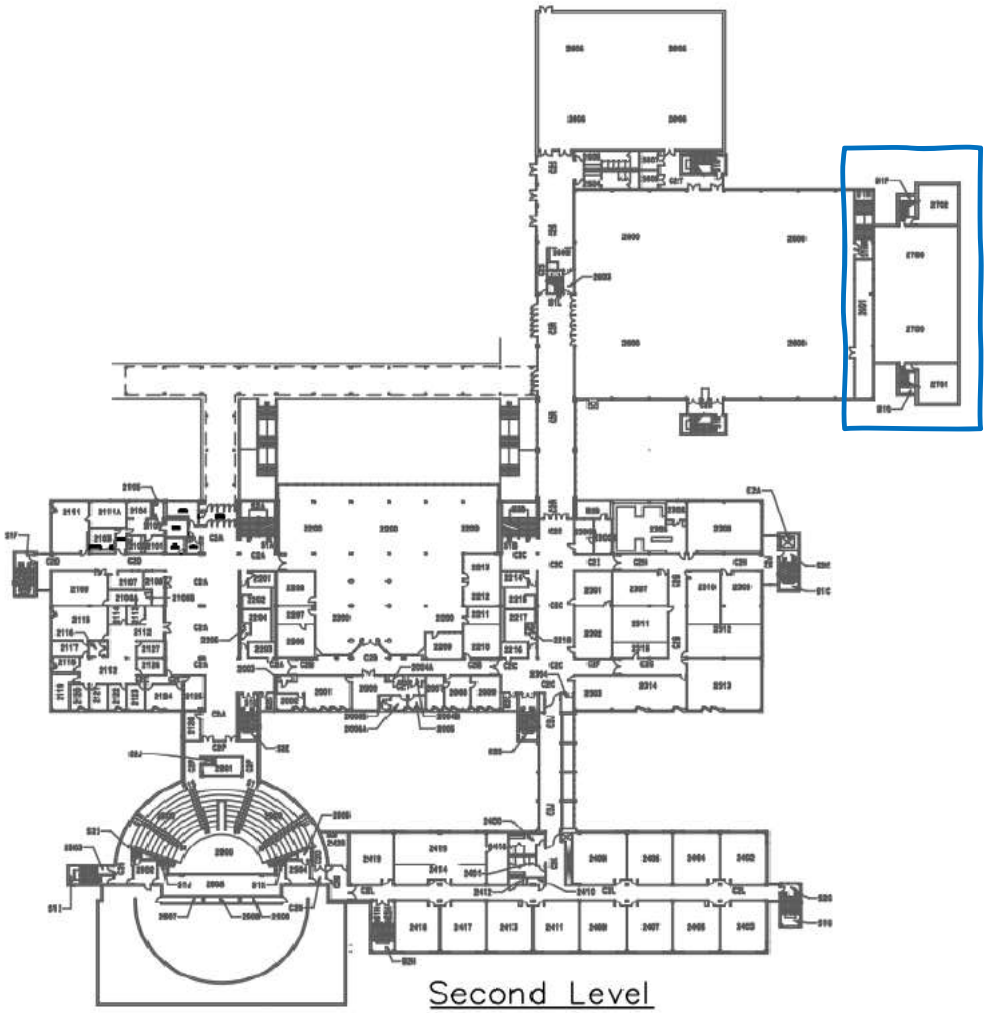
View of louver caulking.

Abatement Areas



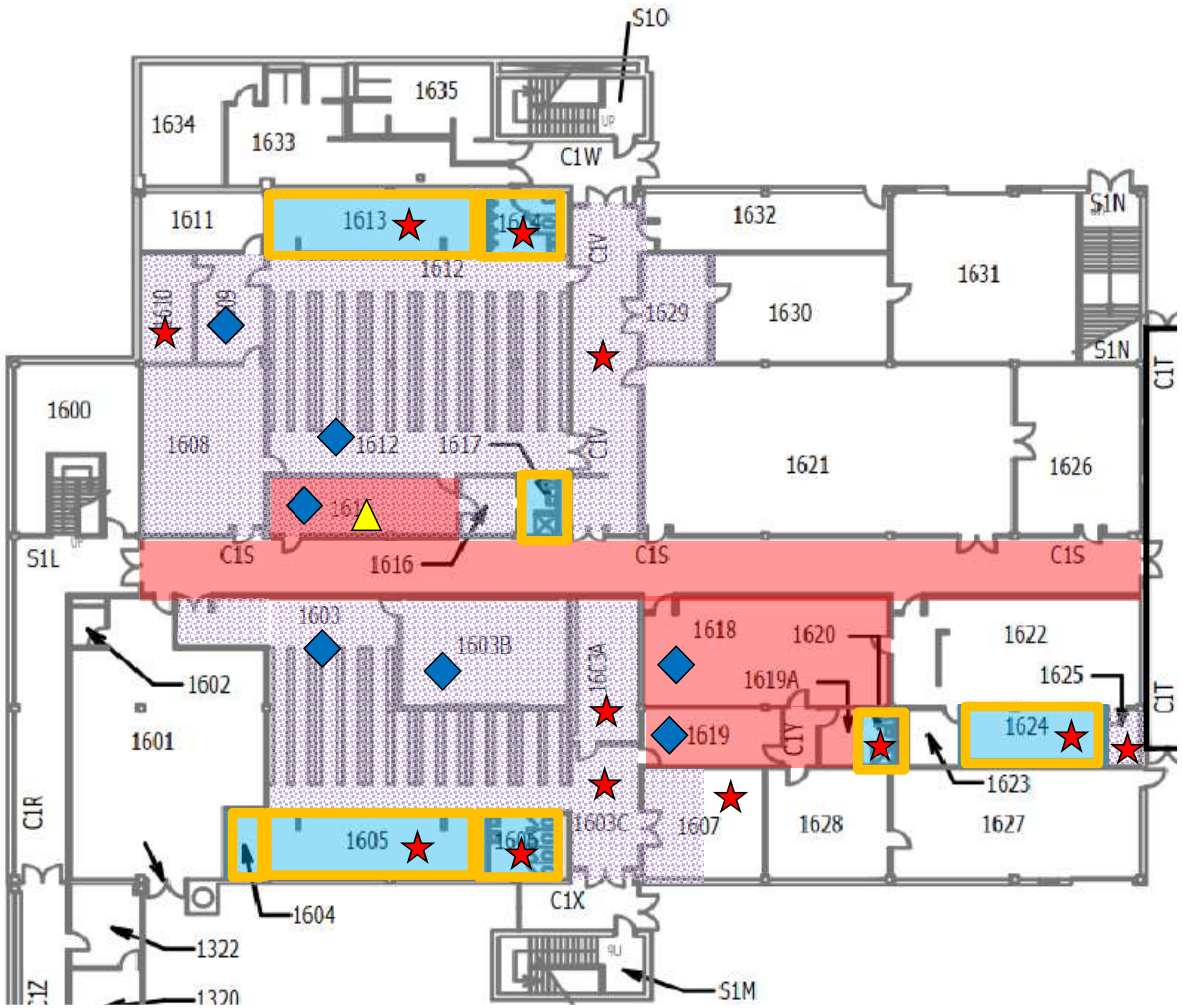
Not to Scale

PINCHIN	Bond Architects - Parkway School District Parkway West High School 14653 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.006 Asbestos Abatement Drawings Date: 10/19/2026 Drawn by: MKSK



Not to Scale

PINCHIN	Bond Architects - Parkway School District Parkway West High School 14653 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.006 Asbestos Abatement Drawings Date: 10/19/2026 Drawn by: MKSK



Approximate Locations of ACM/LBP

- ACM Floor Tile & Mastic
- ACM Acoustical Ceiling Material
- Drywall Ceiling w/ ACM Joint Compound
- LBP Ceramic Tile Walls
- Speaker &/or Clock Assembly w/ ACM Mastic
- ACM Sink Undercoating
- ACM Pipe Fitting Insulation

All Doors Assumed ACM Fire Doors

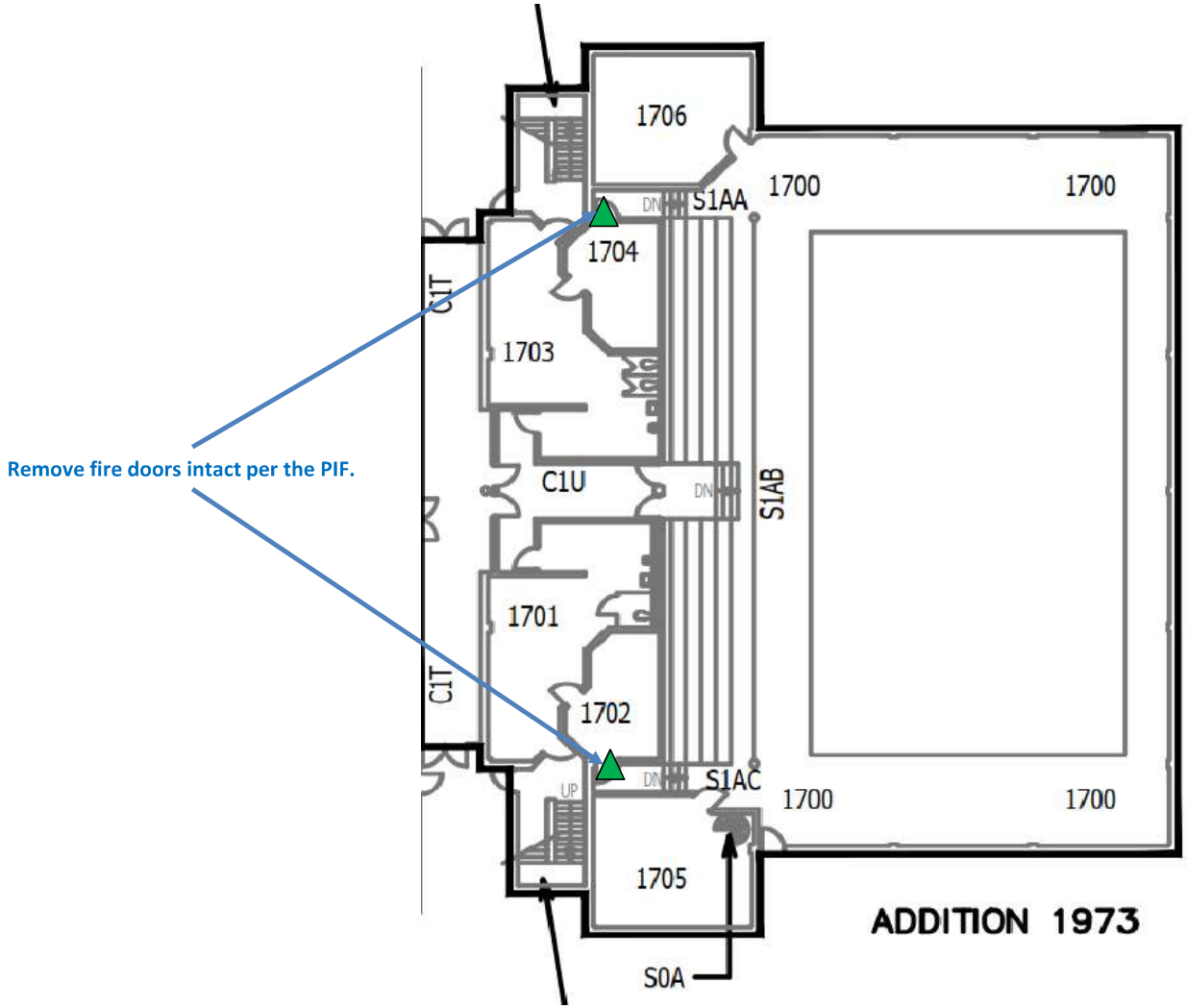
All Chalkboards/Whiteboards/Bulletin Boards Assumed ACM

All Mirrors w/ Assumed ACM Adhesive

*Note: Mirrors in Room 1603B are NOT assumed ACM and are to be salvaged

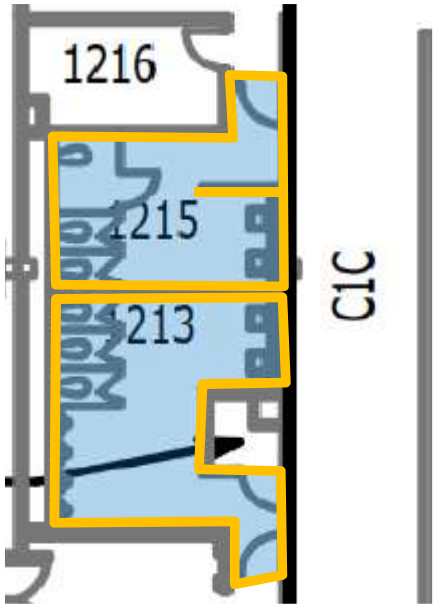
Not to Scale

PINCHIN	Bond Architects - Parkway School District Parkway West High School 14653 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.006 Asbestos Abatement Drawings - Area A Date: 10/19/2026 Drawn by: MKSK



Not to Scale

PINCHIN	Bond Architects - Parkway School District Parkway West High School 14653 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.006 Asbestos Abatement Drawings - Area B Date: 10/19/2026 Drawn by: MKSK



Approximate Locations of ACM/LBP

ACM Pipe Fitting Insulation

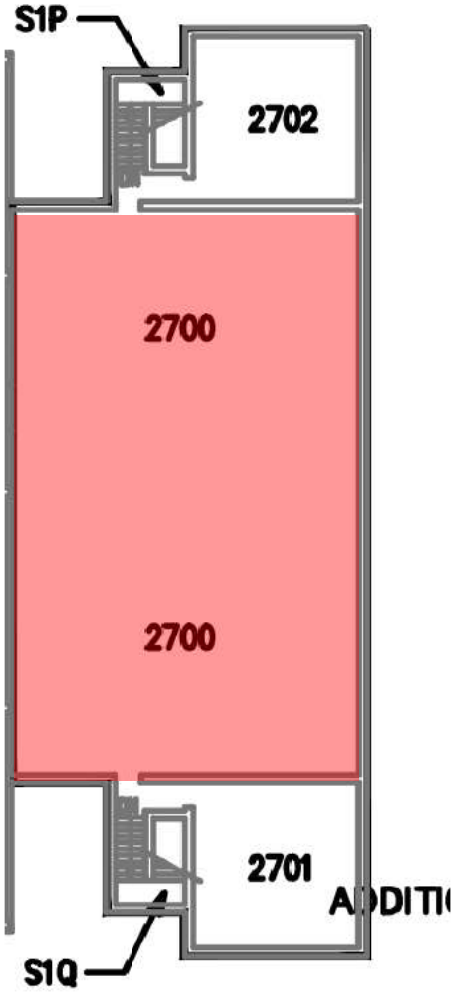
LBP Ceramic Tile Walls

All Doors Assumed ACM Fire Doors

All Mirrors w/ Assumed ACM Adhesive

Not to Scale

PINCHIN	Bond Architects - Parkway School District Parkway West High School 14653 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.006 Asbestos Abatement Drawings - Area C Date: 10/19/2026 Drawn by: MKSK

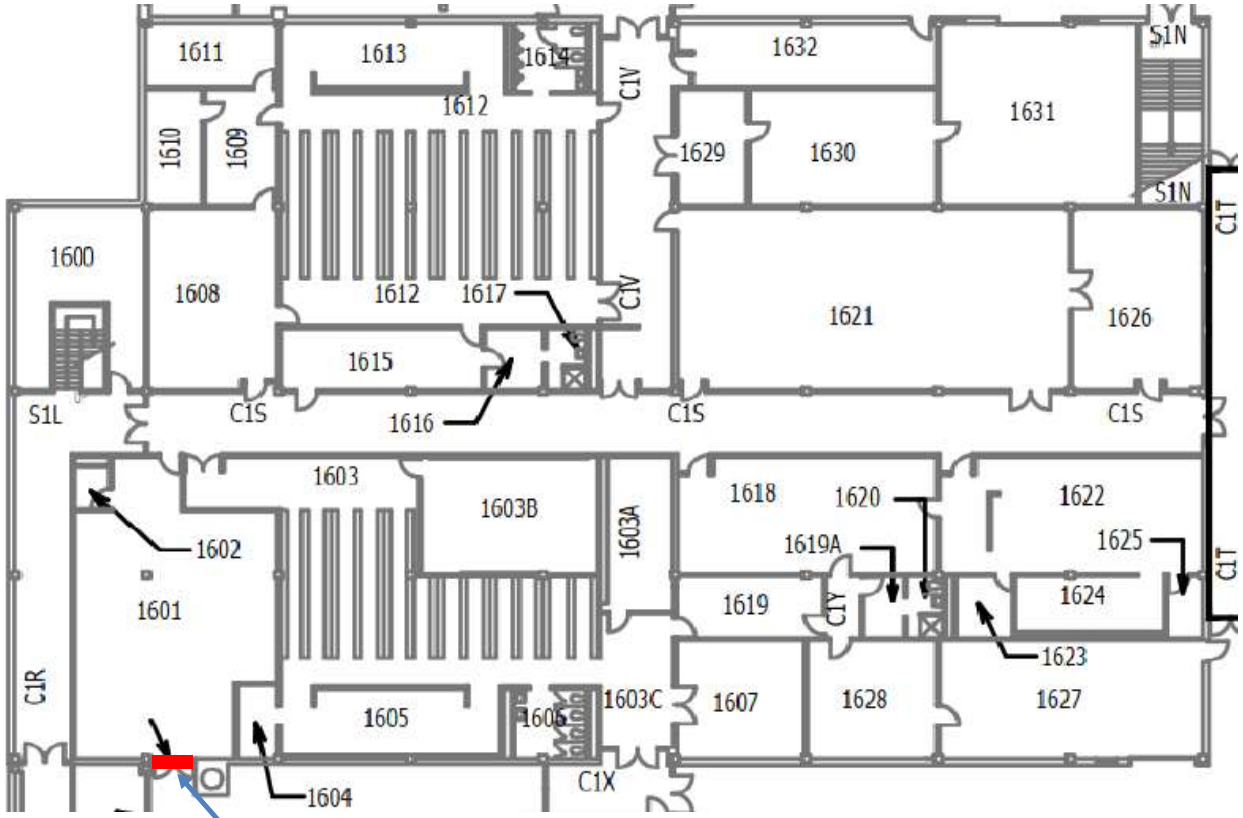


Approximate Location of ACM

ACM Floor Tile & Mastic

Not to Scale

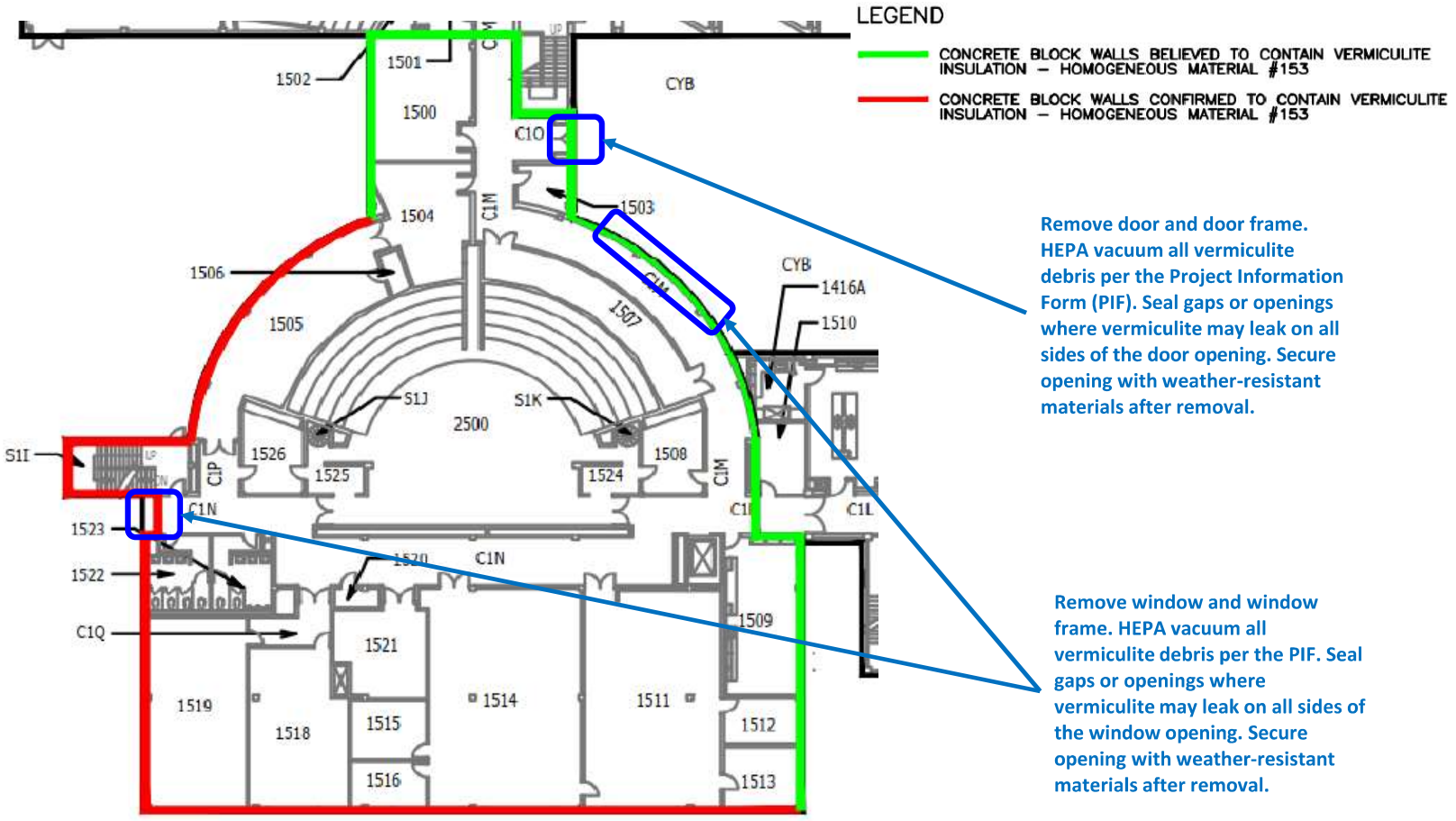
PINCHIN	Bond Architects - Parkway School District Parkway West High School 14653 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.006 Asbestos Abatement Drawings - Area E Date: 10/19/2026 Drawn by: MKSK



Abate approximatily 30 linear feet of asbestos-contianing caulking around the louver above the door in accordance with the Project Information Form (PIF). Remove fire doors intact per the PIF. Secure openings with weather-resistant materials after removal.

Not to Scale

PINCHIN	Bond Architects - Parkway School District Parkway West High School 14653 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.006 Asbestos Abatement Drawings - Door 1601 Date: 10/19/2026 Drawn by: MKSK



Not to Scale

PINCHIN	Bond Architects - Parkway School District Parkway West High School 14653 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.006 Asbestos Abatement Drawings - Doors & Windows First Floor Date: 10/19/2026 Drawn by: MKSK

Project Information Form

This Project Information Form is provided to assist in defining the asbestos abatement scope of work and to convey information necessary for the abatement contractor to prepare a proposal. This document is intended as a supplement to the contract documents and does not supersede, nor relieve the contractor of, its obligations and responsibilities under applicable federal, state, and local regulations, or the requirements identified in the Project Manual.

BID DUE DATE / TIME:	See invitation to bid
PROJECT TITLE:	Parkway Early Childhood Center
PARKWAY PROJECT:	652501B

Today's Date: October 21, 2026 **Drawings Attached:** Yes



Megan Kienker
Missouri Accredited Project Designer #7118082126MOPDR21662

1. INTRODUCTION

This project has been designed by an Asbestos Hazard Emergency Response Act (AHERA) accredited and State of Missouri licensed asbestos project designer.

This Asbestos Abatement Project Information Form has been prepared to comply with applicable regulatory requirements, including the U.S. Environmental Protection Agency (EPA) Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61, Subpart M**,** the Asbestos Hazard Emergency Response Act (AHERA**),** 40 CFR Part 763**,** the Missouri Department of Natural Resources (MDNR), and the St. Louis County Asbestos Abatement Rules and Regulations.

2. SCOPE OF WORK

The Scope of Work includes the proper abatement and disposal of all asbestos-containing materials (ACM) as noted in the project documents and additional abatement and disposal of these materials necessary to facilitate changes in the scope of work should they occur.

The scope of work includes the proper removal, cleanup, and disposal of the following approximate quantities of asbestos:

- 85 each of pipe insulation fittings from Rooms 1102, 1201, 1202, 2203, 2204, 2301, 2500, 2503, 2803, 2903, and 2904 and Corridors C2C and C2K
- 2 each of mirrors with adhesive from Rooms 1102 and 1202
- 3,425 square feet of drywall with joint compound from Rooms 2203, 2204, 2301, 2500, 2503, 2803, 2903, and 2904 and Corridors C2C and C2K
- 170 linear feet of wall base on drywall with joint compound from Room 2202

The above quantities are estimates only. The Asbestos Abatement Contractor is responsible for field verifying quantities and site conditions.

3. CONTAINMENT

Following removal of wall mounted sinks, toilets, and urinals, it is anticipated that negative pressure glovebags will be utilized for the removal of exposed pipe insulation fittings in Rooms 1102, 1201, and 1202 and mirrors with mastic in Rooms 1102 and 1202 (right side). Critical barriers and barrier tape will be installed at the doorway of each room to establish containment/work area. Additionally, a localized wash station will be installed near the work areas. Each containment/work area will consist of barrier tape, one (1) layer of 6-mil polyethylene drop cloth, a localized HEPA-filtered negative air machine, negative pressure glovebags, and proper signage at all entries.

It is anticipated that full negative pressure containments will be utilized for the removal of drywall walls in Rooms 2500 and 2503. Critical barriers will be installed to separate and define the work areas from the rest of the facility. The Contractor will install two (2) layers of polyethylene on the floor and one (1) layer of polyethylene on the ceiling. The extent of removal of the drywall walls will go down to the studs; however, asbestos-containing floor tile and mastic may be encountered under the exposed baseplates. If floor tile and mastic is observed and accessible, the Contractor will remove the floor tile and mastic flush to the baseplate. It is anticipated that negative pressure glovebags will be utilized for the removal of pipe insulation fittings. Each containment will consist of critical barriers, barrier tape, two (2) layers of 6-mil polyethylene on the floor, one (1) layer of 6-mil polyethylene on the ceiling, drop cloths, negative pressure glovebags, 5-stage decontamination unit, a HEPA-filtered negative air machine, negative pressure, and proper signage.

It is anticipated that full negative pressure containments will be utilized for the removal of drywall walls in Rooms 2203, 2204, 2301, 2803, 2903, and 2904 and Corridors C2C and C2K. Critical barriers will be installed to separate and define the work areas from the rest of the facility. The Contractor will install two (2) layers of polyethylene on the floor and one (1) layer of polyethylene on the ceiling. Additionally, a polyethylene wall shall be installed in Room 2301 and Room 2803 to separate the work area from the rest of the room. It is anticipated that negative pressure glovebags will be utilized for the removal of pipe insulation fittings. Each containment/work area will consist of critical barriers, barrier tape, two (2) layers of 6-mil polyethylene on the floor, one (1) layer of 6-mil polyethylene on the ceiling, drop cloths, negative pressure glovebags, 5-stage decontamination unit, a HEPA-filtered negative air machine, negative pressure, and proper signage.

It is anticipated that a modified containment/work area will be utilized for the removal of the wall base on drywalls in Room 2202. Critical barriers will be installed over HVAC vents, the entry door, and other openings within the work area. The Contractor will install polyethylene drop cloths in the areas where wall base is to be removed. It is anticipated that the paper layer of the drywall will be scored directly above the wall base for a clean straight-line removal from the wall to reduce the potential of joint compound disturbance. The containment/work area will consist of critical barriers, barrier tape, one (1) layer of 6-mil polyethylene drop cloth, a 2-stage decontamination unit with wash station, a localized HEPA-filtered negative air machine, and proper signage.

HEPA-filtered negative air machines will be exhausted to the exterior, where possible, via windows (which shall have a plywood barrier installed for security purposes, if necessary. Proper signage, barrier tape, etc. shall be installed at all entrance/exit locations to the work areas.

There may be electrical, mechanical, plumbing, low-voltage/data, or fire alarm systems that serve areas outside the Scope of Work or are intended to remain in service. The Contractor shall protect all such

systems. The Contractor shall provide temporary power panel(s) for its use, if required, and shall inform Parkway of the panel's electrical requirements. Parkway will perform connection and disconnection of power to the temporary panel(s); the Contractor shall provide all required cabling. Advance notice is required, preferably a minimum of 48 hours.

Access to water shall be coordinated between the Contractor and Parkway.

After completion of the removal work and clean-up, the Contractor shall request a visual inspection from Parkway's representative. Transmission Electron Microscopy (TEM) clearance samples will be utilized for final clearance air samples in each containment/work area within Rooms 2203, 2204, 2301, 2500, 2503, 2803, 2903, and 2904 and Corridors C2C and C2K. Phase Contrast Microscopy (PCM) in-progress clearance samples will be utilized for final clearance air samples in each containment/work area within Rooms 1102, 1201, 1202, and 2202.

4. SCHEDULE

Timing is very important for this project so that renovation activities may proceed. A 10-day notification may be required for this project. The Contractor is responsible for submitting the notification to the St. Louis County Department of Health, including waiver requests, if necessary.

Multiple Shifts Allowed: Yes: **X** No: ____ Extended Shifts: **Yes**

It is the Contractor's responsibility to include in its bid all overtime and/or shift differential premium costs necessary to perform the Work within the time scheduled established in the Project Manual. No claims for overtime or shift differential premium costs required to perform the Work as specified in the bid documents will be allowed. This provision does not apply to claims associated with changes to the Contract Documents issued after award of the Contract.

5. CLEARANCE SAMPLING

TEM (Minimum 6-hour Turnaround after receipt acknowledged by laboratory) *(Whenever asbestos quantities exceed 160 sf or 260 lf)*	Yes: **X**	No: ____
PCM In-Progress (Project Specific – Minimum 2-hour Turnaround) *(At Consultant's discretion)*	Yes: **X**	No: ____
PCM (Minimum 6-hour Turnaround after receipt acknowledged by laboratory)	Yes: ____	No: **X**
Lead Wipe (Minimum 6-hour Turnaround after receipt acknowledge by laboratory) *(Clearance criteria is 5.0 µg/ft^2 of lead or less)*	Yes: ____	No: **X**

6. WORKER PROTECTION

All workers entering the work areas shall wear, at a minimum, disposable suits and 1/2 mask respirators equipped with HEPA filters. When leaving the work area for any reason, all workers shall perform proper decontamination procedures. All applicable NESHAP, OSHA, State, and local requirements shall be strictly followed.

7. MINIMUM REGULATED AREA REQUIREMENTS

These minimum requirements do not supersede applicable regulations.

- **Rooms 1102, 1201 and 1202:** Modified Containment (Glovebag) – Critical barriers, barrier tape, negative pressure glovebags, polyethylene drop cloths, localized HEPA-filtered negative air machine vented outside, localized wash station, and proper signage.
- **Rooms 2500 and 2503:** Full Negative Pressure Containment – Critical barriers, two (2) layers of 6-mil polyethylene sheeting on floors, one (1) layer of 6-mil polyethylene sheeting on ceiling, negative pressure glovebags, polyethylene drop cloths, HEPA-filtered negative air machine(s) vented outside, 5-stage “wet” decontamination unit, waste/equipment load-out, and proper signage.
- **Rooms 2204, 2203, 2301 and Corridor C2C:** Full Negative Pressure Containment – Critical barriers, a two (2) layers of 6-mil polyethylene sheeting wall where applicable, two (2) layers of 6-mil polyethylene sheeting on floors, one (1) layer of 6-mil polyethylene sheeting on ceiling, polyethylene drop cloths, negative pressure glovebags, HEPA-filtered negative air machine(s) vented outside, 5-stage “wet” decontamination unit, waste/equipment load-out, and proper signage.
- **Rooms 2803, 2903, 2904 and Corridor C2K:** Full Negative Pressure Containment – Critical barriers, a two (2) layers of 6-mil polyethylene sheeting wall where applicable, two (2) layers of 6-mil polyethylene sheeting on floors, one (1) layer of 6-mil polyethylene sheeting on ceiling, polyethylene drop cloths, negative pressure glovebags, HEPA-filtered negative air machine(s) vented outside, 5-stage “wet” decontamination unit, waste/equipment load-out, and proper signage.
- **Room 2202:** Modified Containment – Critical barriers, barrier tape, one (1) layer of 6-mil polyethylene drop cloth, a localized HEPA-filtered negative air machine vented outside, a 2-stage decontamination unit with wash station, and proper signage

8. DISPOSAL

The Contractor shall label all bags, drums, closed top poly-lined lockable dumpsters, box trucks, and any and all other waste containers in accordance with AHERA, OSHA, Department of Transportation, the National Emission Standards for Hazardous Air Pollutants (NESHAP) issued by USEPA, and any other regulations pertaining to the disposal of asbestos-containing materials and/or debris. Waste Shipment Records shall be prepared and maintained in accordance with NESHAP and any State or local regulations governing the disposal of asbestos. These Waste Shipment Records shall be signed legibly by all required parties. All asbestos-containing material and wastes shall be disposed of at a landfill authorized to accept such wastes. The Waste Manifest shall identify the grid area where the asbestos from this Project is disposed.

9. ADDITIONAL INFORMATION

Special Health and Safety Concerns:

Confined Space		Hot Work (Fire Watch)	
Heat Stress / Stroke	X	Electrical – Lock & Tag	X
Heights / Fall Protection	X	Chemical	
Parkway Approved Solvents *(Attack 2000, MA-22, MA-24)*		Other:	

Special Requirements:

All contractor personnel must have completed OSHA 10 or 30-hour training and have a current badge issued by Parkway prior to arriving onsite. If the Contractor uses solvents to abate mastic, they must use one of the approved solvents listed above. The Contractor shall secure openings with lumber where negative air machine exhaust tubing exits building.

Coordination:

Other contractors working in the area? Yes: X No:

Other contractors working simultaneously throughout the facility.

Coordination with other contractors required? Yes: X No:

The Construction Manager will coordinate work activities of contractors.

Comments:

The Contractor shall perform asbestos abatement work in accordance with this Project Information Form (PIF), the Asbestos Abatement Drawings assembled on October 21, 2026, the Project Manual for Parkway ECC – West Campus Building Renovation and Site Improvement Project, Parkway #652501B, the Bond Architects, Inc. reference drawings, and all Addenda issued.

The Contractor is advised that if it identifies any condition that it believes constitutes a change or addition to the Scope of Work that may require additional compensation, the Contractor shall notify Parkway immediately by email, but no later than twenty-four (24) hours after discovery of the condition.

The Contractor shall document, photograph, and promptly notify Parkway's Representative of any pre-existing damage observed within or adjacent to the work areas prior to the start of work. The Contractor may be held responsible for damages identified after completion of the work that were not documented before work commenced.

Not all work areas included in this PIF Scope of Work have been photographed. The photographs included are representative and are provided to illustrate the work and/or work areas and provide the Contractor with additional information.

10. CLOSEOUT DOCUMENTATION

The abatement contractor shall submit the following documentation to the Owner's Representative prior to beginning preparatory activities and at the end of the project and prior to final payment:

Contract Administration

A. Contractor's Name and Address
B. Contractor's Proof of Missouri State Registration
C. Notification to MDNR/St. Louis County along with the approval letter, if required
D. Insurance Certificates

Project Summary

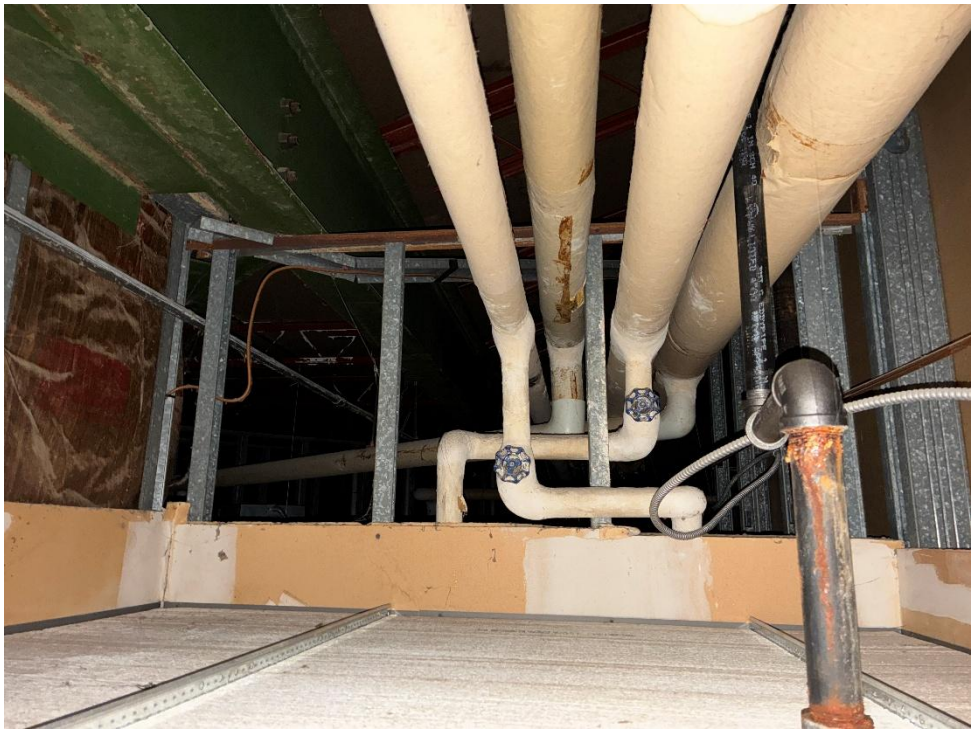
A. Locations and Quantities of the Work performed
B. Dates when the work was performed
C. Methods used to complete the work (Work Plan)
D. Name of Contractor's Supervisor
E. Name and Missouri Certifications of all Supervisors and Workers
F. Supervisors' and Workers' Medicals and Certificates of Acknowledgement
G. Respirator fit tests for all Supervisors and Workers
H. Contractor's daily log report
I. Enclosure entry/exit log
J. Fully executed Waste Manifest(s), landfill receipts and Chain of Custody
K. Air monitoring results

The items listed in the Contract Administration section and items D, E, F and G in the Project Summary section must be reviewed prior to beginning work on this project. Any supervisor(s) or worker(s) not having this documentation will not be allowed to work on this project until such documentation is provided to the on-site representative.

The Abatement Contractor's project closeout documentation must be submitted to Owner's Consultant no later than 45 days after the last date worked by Abatement Contractor at the subject project site.

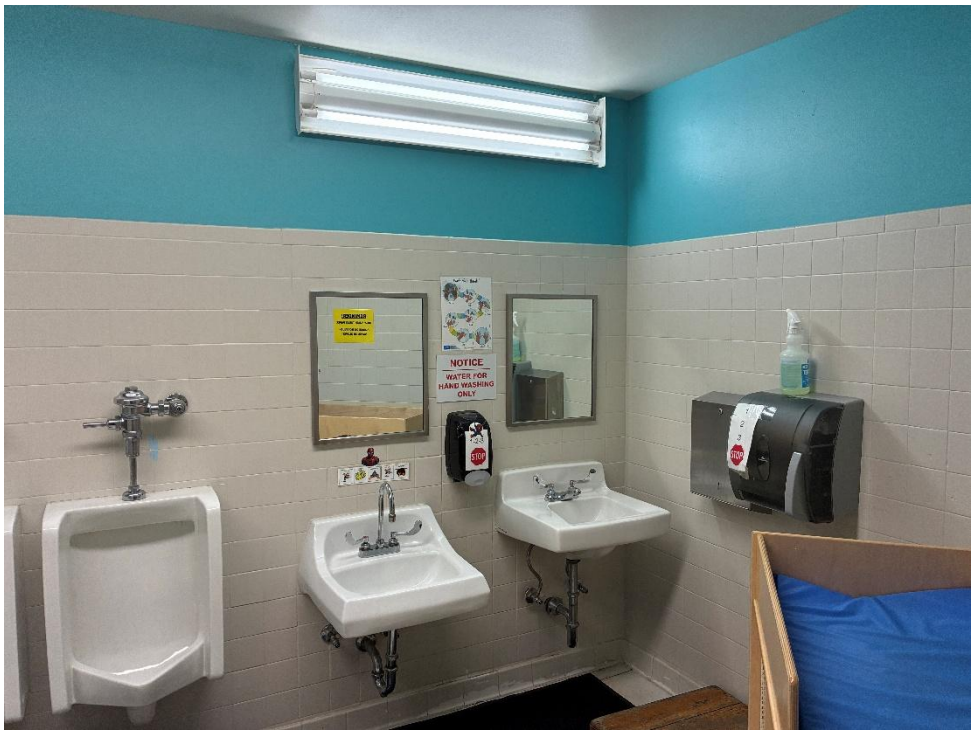
Parkway Early Childhood Center – Building Renovations
Abatement Scope of Work Photographs
Pinchin File No. R262.00457.005
Location: 14605 Clayton Road, Ballwin, Missouri 63011

Photograph 1



Abate approximately 85 pipe insulation fittings throughout the work areas. Pipe fittings are present above ceiling tiles in Rooms 2301 and 2803 and Corridors C2C and C2K. It is anticipated that pipe insulation fittings are present within wall chases behind sinks, toilets, and urinals.

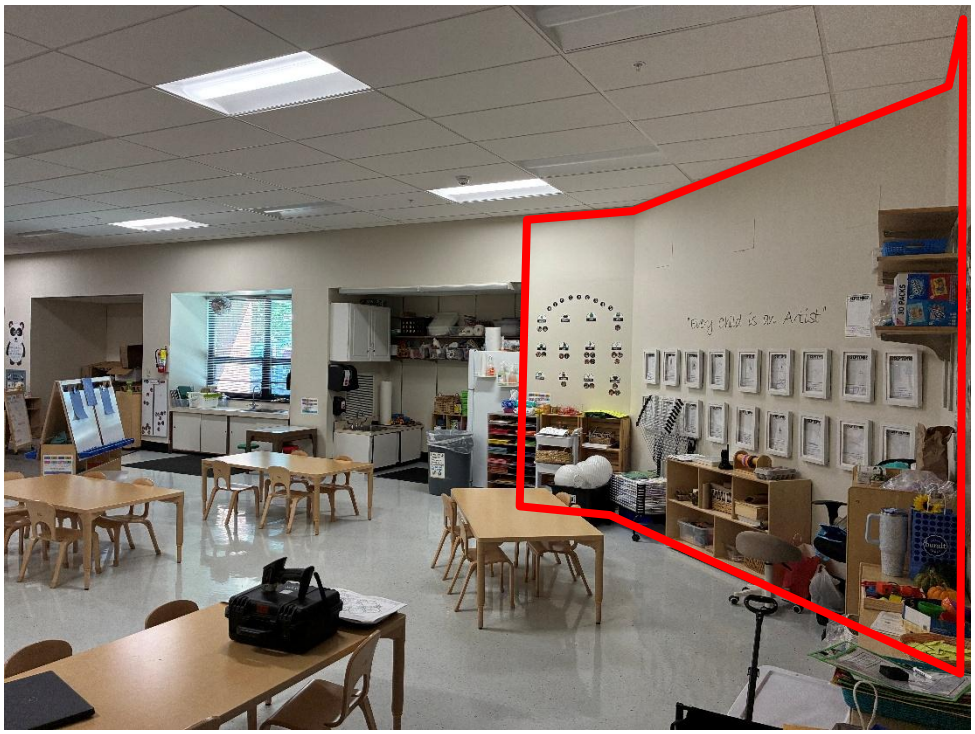
Photograph 2



Abate approximately 3,425 SF of drywall with asbestos-containing joint compound throughout work areas.

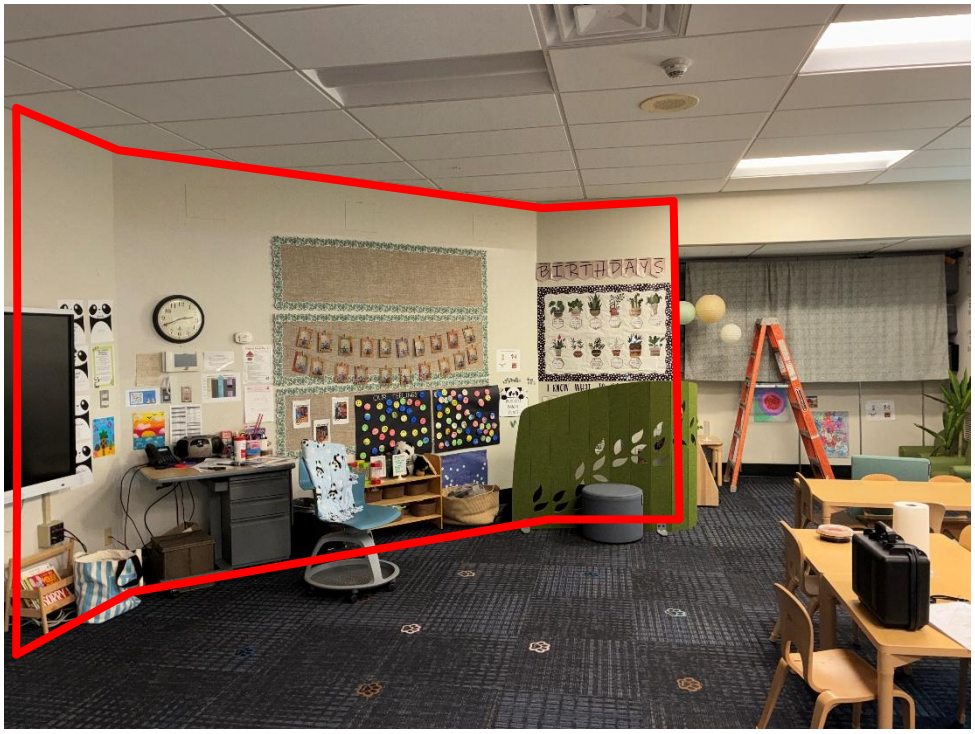
Parkway Early Childhood Center – Building Renovations
Abatement Scope of Work Photographs
Pinchin File No. R262.00457.005
Location: 14605 Clayton Road, Ballwin, Missouri 63011

Photograph 3



Abate drywall wall with asbestos-containing joint compound within Room 2803.

Photograph 4



Abate drywall wall with asbestos-containing joint compound within Room 2301.

Parkway Early Childhood Center – Building Renovations
Abatement Scope of Work Photographs
Pinchin File No. R262.00457.005
Location: 14605 Clayton Road, Ballwin, Missouri 63011

Photograph 5



Abate drywall wall with asbestos-containing joint compound within Corridors C2C and C2K.

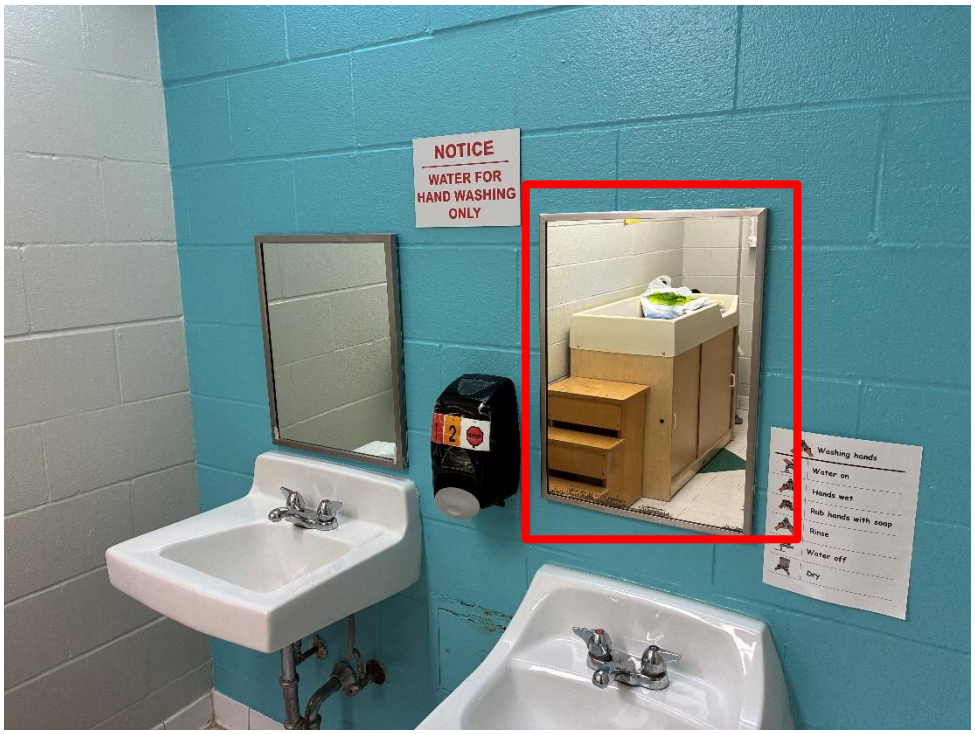
Photograph 6



Abate 1 mirror with assumed asbestos-containing adhesive within Room 1102.

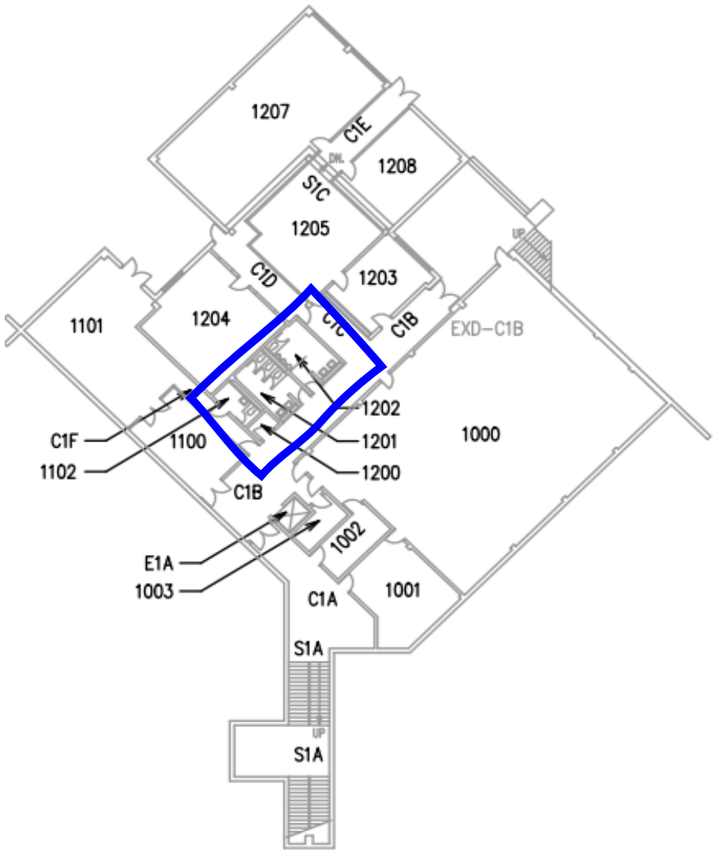
Parkway Early Childhood Center – Building Renovations
Abatement Scope of Work Photographs
Pinchin File No. R262.00457.005
Location: 14605 Clayton Road, Ballwin, Missouri 63011

Photograph 7

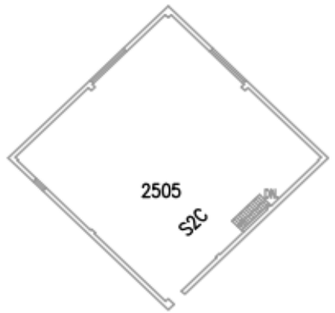


Abate 1 mirror with assumed asbestos-containing adhesive within Room 1202.

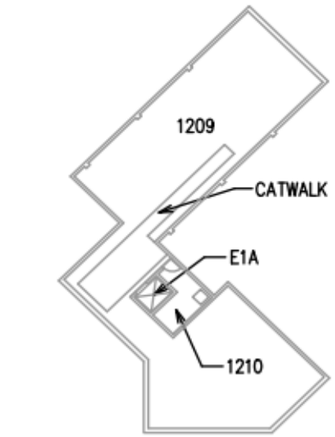
= ABATEMENT AREAS



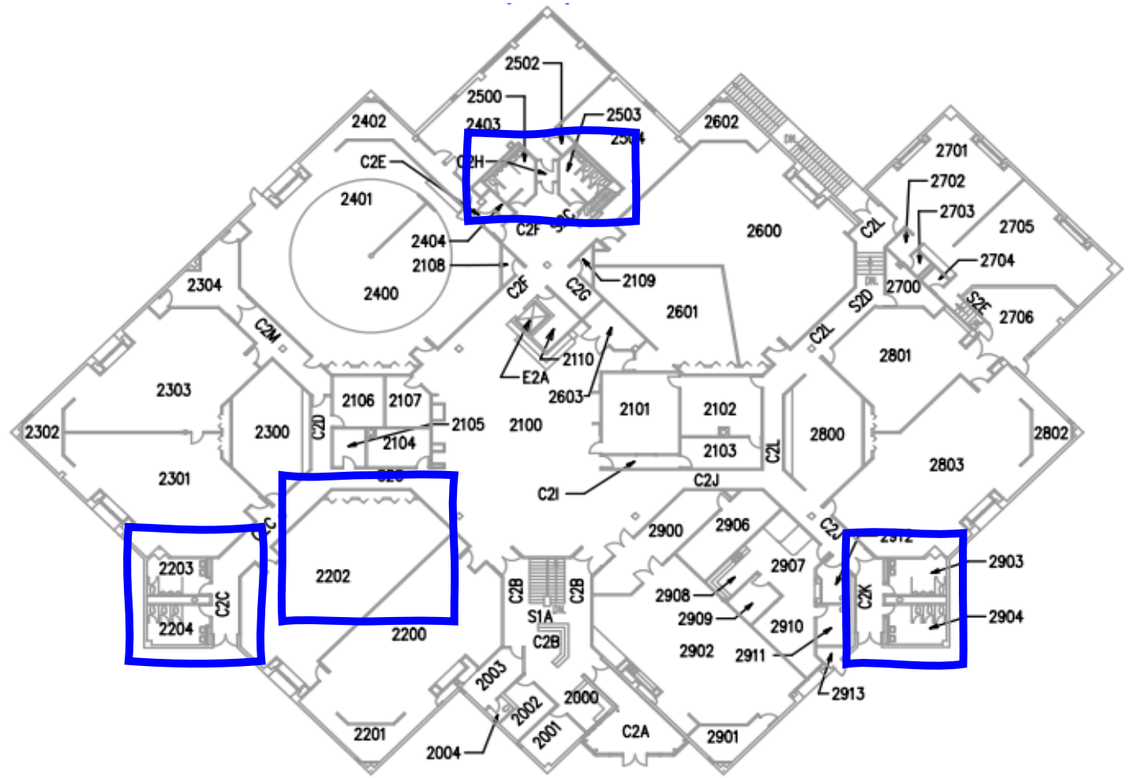
First Level



PENTHOUSE FLOOR PLAN



MEZZANINE FLOOR PLAN

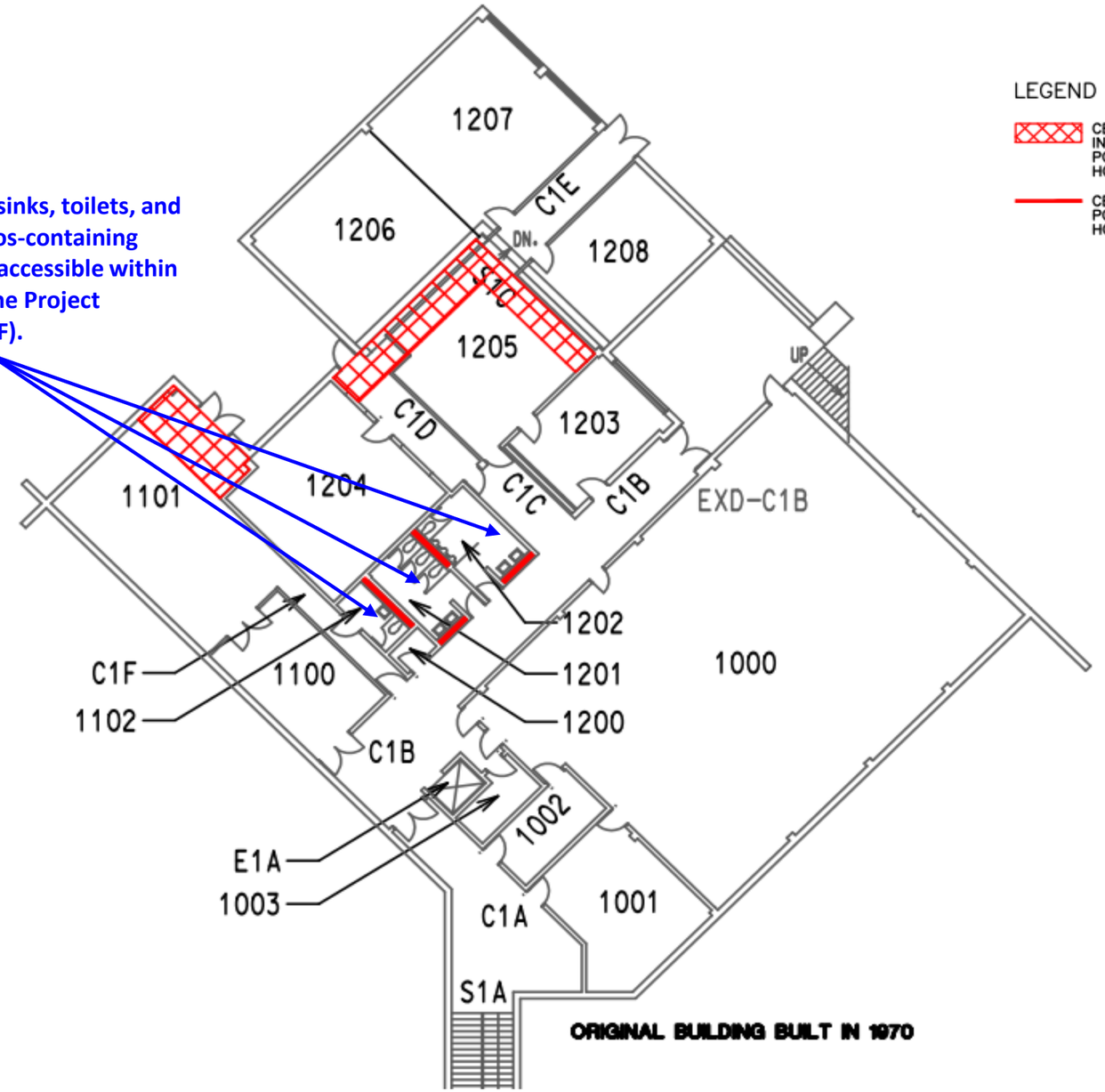


Second Level

Not to Scale

PINCHIN	Bond Architects - Parkway School District Early Childhood Center - West Campus 14605 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.005 Asbestos Abatement Drawings Date: October 21, 2026 Drawn by: MKSK

After the removal of sinks, toilets, and urinals, abate asbestos-containing pipe fittings that are accessible within the wall chases per the Project Information Form (PIF).



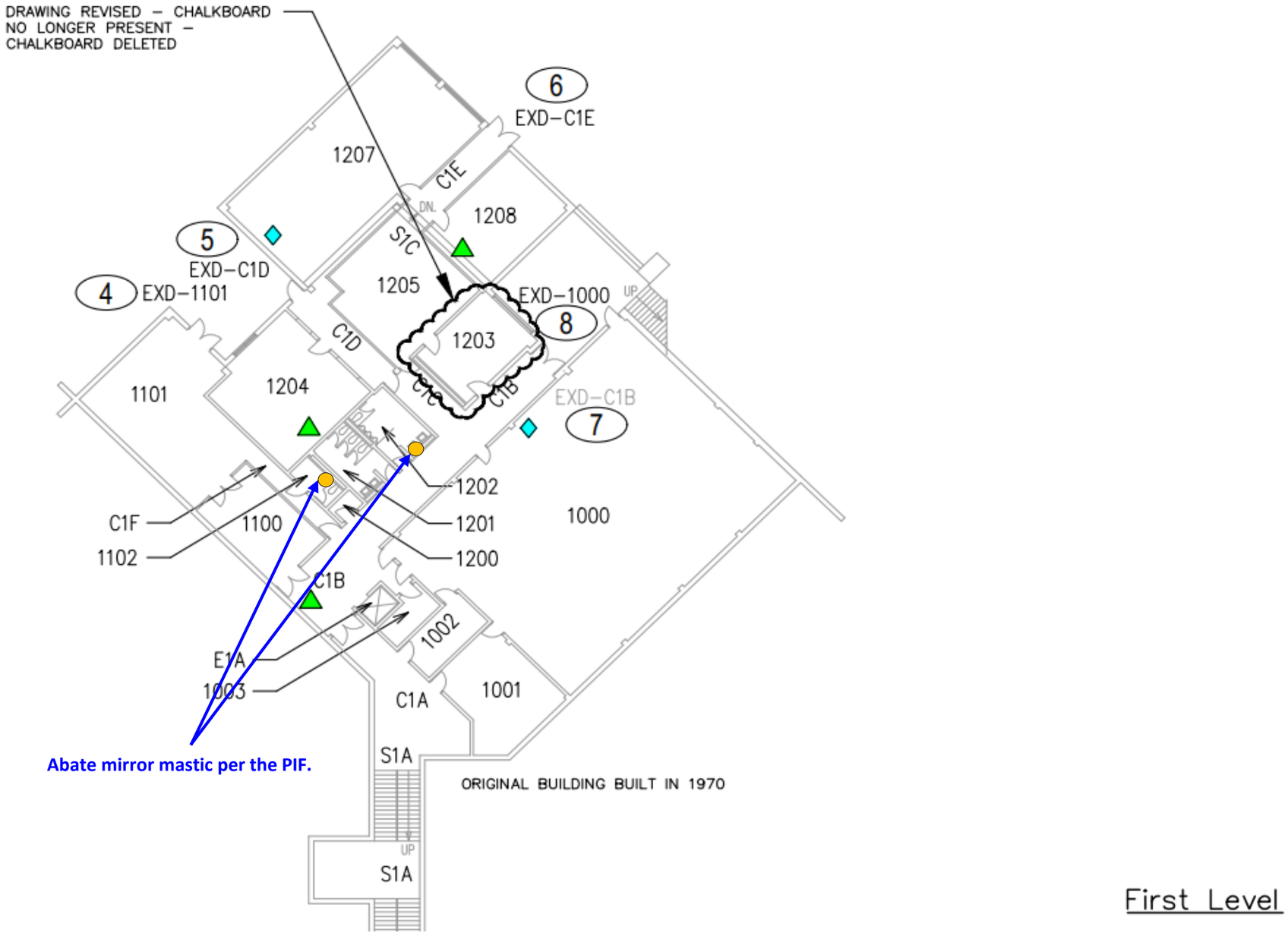
LEGEND

CEMENTITOUS (MUDDED) PIPE FITTING INSULATION EXPOSED OR CONCEALED ABOVE CEILING POSITIVE FOR ASBESTOS HOMOGENEOUS MATERIALS #6, #7, #8, #9 AND #14

CEMENTITIOUS (MUDDED) PIPE FITTING INSULATION POSITIVE FOR ASBESTOS PRESUMED TO BE IN CHASE HOMOGENEOUS MATERIALS #6 AND #9

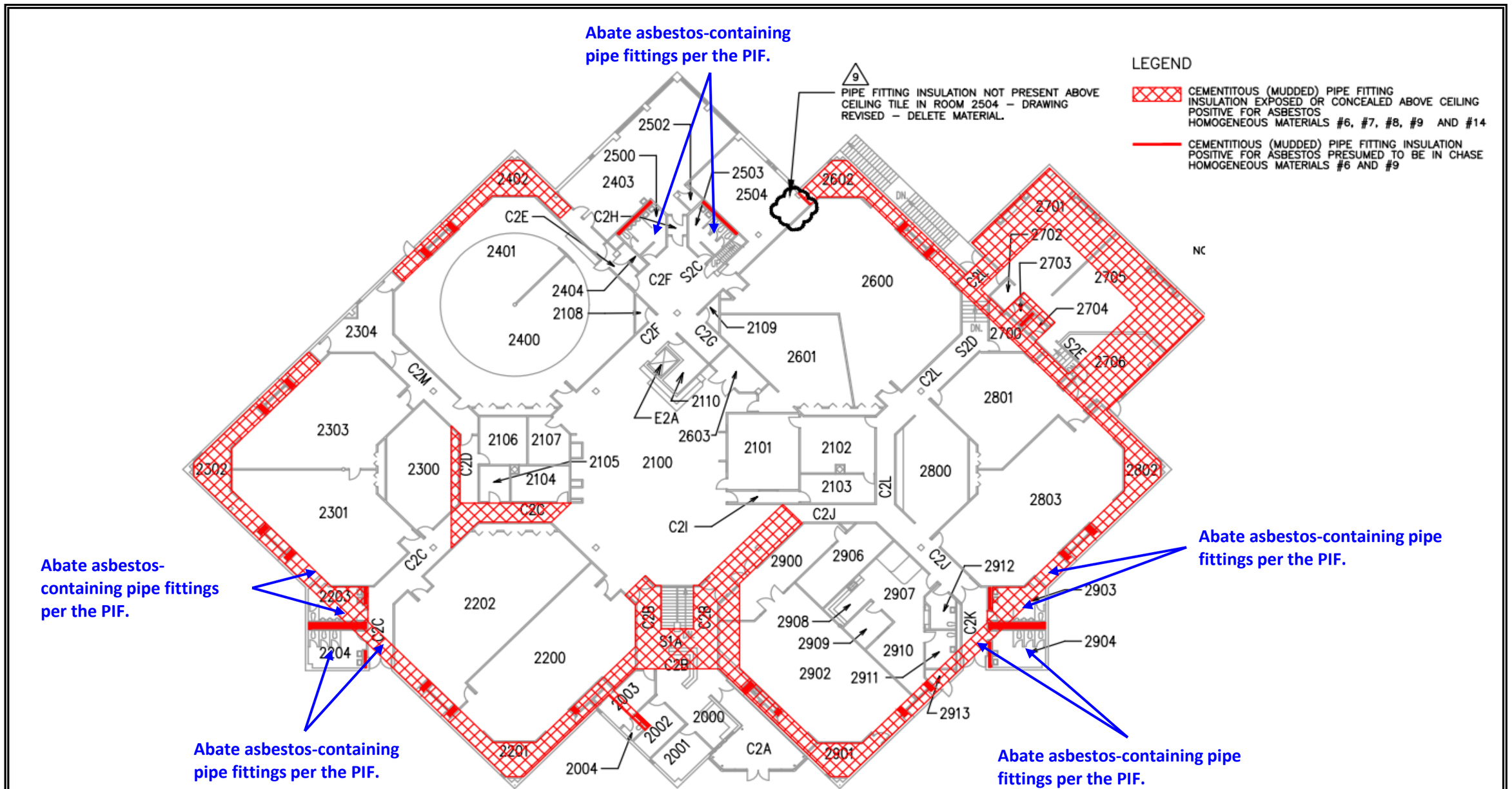
First Level

PINCHIN	**Bond Architects - Parkway School District** **Early Childhood Center - West Campus** **14605 Clayton Road** **Ballwin, Missouri 63011**	**Pinchin File No.: R262.00457.005** **Asbestos Abatement Drawings - Pipe Fittings** **Date:** **October 21, 2026** **Drawn by:** **MKSK**



First Level

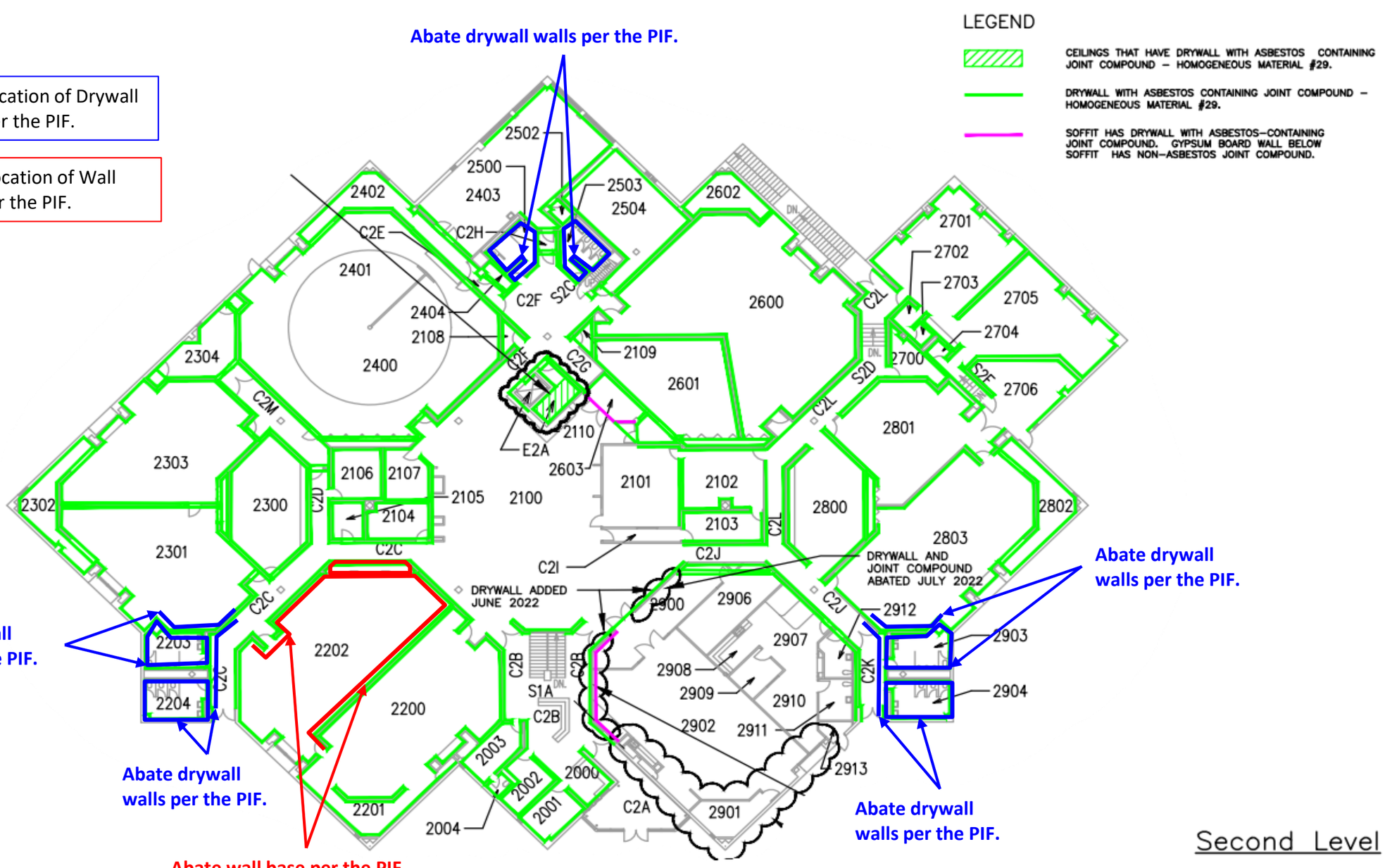
PINCHIN	**Bond Architects - Parkway School District** **Early Childhood Center - West Campus** **14605 Clayton Road** **Ballwin, Missouri 63011**	**Pinchin File No.: R262.00457.005** **Asbestos Abatement Drawings - Mirror Mastic** **Date:** **October 21, 2026** **Drawn by:** **MKSK**



PINCHIN	Bond Architects - Parkway School District Early Childhood Center - West Campus 14605 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.005 Asbestos Abatement Drawings - Pipe Fittings Date: October 21, 2026 Drawn by: MKSK

Approximate location of Drywall Walls to be abated per the PIF.

Approximate location of Wall Base to be abated per the PIF.



Second Level

PINCHIN	Bond Architects - Parkway School District Early Childhood Center - West Campus 14605 Clayton Road Ballwin, Missouri 63011	Pinchin File No.: R262.00457.005 Asbestos Abatement Drawings - Drywall and Joint Compound Date: October 21, 2026 Drawn by: MKSK

Project Information Form

This Project Information Form is provided to assist in defining the asbestos abatement scope of work and to convey information necessary for the abatement contractor to prepare a proposal. This document is intended as a supplement to the contract documents and does not supersede, nor relieve the contractor of, its obligations and responsibilities under applicable federal, state, and local regulations, or the requirements identified in the Project Manual.

BID DUE DATE / TIME: See invitation to bid
PROJECT TITLE: Parkway West Middle School Building Renovations

Today's Date: August 3, 2026 **Drawings Attached:** Yes, included in Project Manual



Megan Kienker
Missouri Accredited Project Designer #7118073025MOPDI21662

1. INTRODUCTION

This project has been designed by an Asbestos Hazard Emergency Response Act (AHERA) accredited and State of Missouri licensed asbestos project designer.

This Asbestos Abatement Project Information Form has been prepared to comply with applicable regulatory requirements, including the U.S. Environmental Protection Agency (EPA) Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 61, Subpart M**,** the Asbestos Hazard Emergency Response Act (AHERA**),** 40 CFR Part 763**,** the Missouri Department of Natural Resources (MDNR), and the St. Louis County Asbestos Abatement Rules and Regulations.

2. SCOPE OF WORK

The Scope of Work includes the proper abatement and disposal of all asbestos-containing materials (ACM) as noted in the project documents and additional abatement and disposal of these materials necessary to facilitate changes in the scope of work should they occur.

The scope of work includes the proper removal, cleanup, and disposal of the following ACM:

- Drywall walls and ceilings with asbestos-containing joint compound where hangers and sprinklers are planned

The Asbestos Abatement Contractor is responsible for field verifying quantities and site conditions.

3. CONTAINMENT

It is anticipated that localized mini-containments will be utilized for the removal and/or disturbance of joint compound where hangers and sprinklers are planned to be installed. The work areas will be defined by installing barrier tape and a localized washing station will be installed. Inside the mini-containment, HEPA vacuums will be utilized for cleanup and negative pressure. Additionally, localized HEPA-filtered negative air machines will be installed and exhausted outside within the work areas. The mini-containment/work area will consist of barrier tape, one (1) layer of 6-mil polyethylene on walls and ceiling as applicable, two

(2) layers of polyethylene on the floor, drop cloths, HEPA vacuum, a localized negative air machine, and proper signage.

HEPA-filtered negative air machines will be exhausted to the exterior, where possible, via windows (which shall have a plywood barrier installed for security purposes, if necessary. Proper signage, barrier tape, etc. shall be installed at all entrance/exit locations to the work areas.

There may be electrical, mechanical, plumbing, low-voltage/data, or fire alarm systems that serve areas outside the Scope of Work or are intended to remain in service. The Contractor shall protect all such systems. The Contractor shall provide temporary power panel(s) for its use, if required, and shall inform Parkway of the panel's electrical requirements. Parkway will perform connection and disconnection of power to the temporary panel(s); the Contractor shall provide all required cabling. Advance notice is required, preferably a minimum of 48 hours.

Access to water shall be coordinated between the Contractor and Parkway.

After completion of the removal work and clean-up, the Contractor shall request a visual inspection from Parkway's representative. Phase Contrast Microscopy (PCM) in-progress clearance samples will be utilized for final clearance air samples in each containment/work area.

4. SCHEDULE

Timing is very important for this project so that renovation activities may proceed. A 10-day notification may be required for this project. The Contractor is responsible for submitting the notification to the St. Louis County Department of Health, including waiver requests, if necessary.

Multiple Shifts Allowed: Yes: **X** No: ____ Extended Shifts: _____

It is the Contractor's responsibility to include in its bid all overtime and/or shift differential premium costs necessary to perform the Work within the time scheduled established in the Project Manual. No claims for overtime or shift differential premium costs required to perform the Work as specified in the bid documents will be allowed. This provision does not apply to claims associated with changes to the Contract Documents issued after award of the Contract.

5. CLEARANCE SAMPLING

TEM (Minimum 6-hour Turnaround after receipt acknowledged by laboratory) *(Whenever asbestos quantities exceed 160 sf or 260 lf)*	Yes: ____	No: **X**
PCM In-Progress (Project Specific – Minimum 2-hour Turnaround) *(At Consultant's discretion)*	Yes: **X**	No: ____
PCM (Minimum 6-hour Turnaround after receipt acknowledged by laboratory)	Yes: ____	No: **X**

6. WORKER PROTECTION

All workers entering the work areas shall wear, at a minimum, disposable suits and 1/2 mask respirators equipped with HEPA filters. When leaving the work area for any reason, all workers shall perform proper

decontamination procedures. All applicable NESHAP, OSHA, State, and local requirements shall be strictly followed.

7. MINIMUM REGULATED AREA REQUIREMENTS

These minimum requirements do not supersede applicable regulations.

- **Mini-Containment** – Barrier tape, one (1) layer of 6-mil polyethylene sheeting on walls and ceiling, two (2) layers of 6-mil polyethylene sheeting on floors, polyethylene drop cloths, HEPA vacuum, localized HEPA-filtered negative air machine, washing station, and proper signage.

8. DISPOSAL

The Contractor shall label all bags, drums, closed top poly-lined lockable dumpsters, box trucks, and any and all other waste containers in accordance with AHERA, OSHA, Department of Transportation, the National Emission Standards for Hazardous Air Pollutants (NESHAP) issued by USEPA, and any other regulations pertaining to the disposal of asbestos-containing materials and/or debris. Waste Shipment Records shall be prepared and maintained in accordance with NESHAP and any State or local regulations governing the disposal of asbestos. These Waste Shipment Records shall be signed legibly by all required parties. All asbestos-containing material and wastes shall be disposed of at a landfill authorized to accept such wastes. The Waste Manifest shall identify the grid area where the asbestos from this Project is disposed.

9. ADDITIONAL INFORMATION

Special Health and Safety Concerns:

Confined Space		Hot Work (Fire Watch)	
Heat Stress / Stroke	X	Electrical – Lock & Tag	X
Heights / Fall Protection	X	Chemical	
Parkway Approved Solvents *(Attack 2000, MA-22, MA-24)*		Other:	

Special Requirements:

All contractor personnel must have completed OSHA 10 or 30-hour training and have a current badge issued by Parkway prior to arriving onsite. If the Contractor uses solvents to abate mastic, they must use one of the approved solvents listed above. The Contractor shall secure openings with lumber where negative air machine exhaust tubing exits building.

Coordination:

Other contractors working in the area?	Yes:		No:	X
Coordination with other contractors required?	Yes:	X	No:	

Other contractor will need to mark and indicate where the hangers and sprinklers will be installed.

Comments:

The Contractor shall perform asbestos abatement work in accordance with this Project Information Form (PIF), the Asbestos Abatement Drawings assembled on August 3, 2026, the Project Manual for Parkway

West Middle School Building Renovation Parkway Project #PN432502B, the Bond Architects, Inc. reference drawings titled West Middle School Building Renovation, and all Addenda issued.

The Contractor is advised that if it identifies any condition that it believes constitutes a change or addition to the Scope of Work that may require additional compensation, the Contractor shall Parkway School District immediately by email, but no later than twenty-four (24) hours after discovery of the condition.

The Contractor shall document, photograph, and promptly notify Parkway's Representative of any pre-existing damage observed within or adjacent to the work areas prior to the start of work. The Contractor may be held responsible for damages identified after completion of the work that were not documented before work commenced.

Not all work areas included in this PIF Scope of Work have been photographed. The photographs included are representative and are provided to illustrate the work and/or work areas and provide the Contractor with additional information.

The Contractor shall have an authorized representative available to attend a pre-construction meeting and for weekly progress meetings following the commencement of work.

10. CLOSEOUT DOCUMENTATION

The abatement contractor shall submit the following documentation to the Owner's Representative prior to beginning preparatory activities and at the end of the project and prior to final payment:

Contract Administration

A. Contractor's Name and Address
B. Contractor's Proof of Missouri State Registration
C. Notification to MDNR/St. Louis County along with the approval letter, if required
D. Insurance Certificates

Project Summary

A. Locations and Quantities of the Work performed
B. Dates when the work was performed
C. Methods used to complete the work (Work Plan)
D. Name of Contractor's Supervisor
E. Name and Missouri Certifications of all Supervisors and Workers
F. Supervisors' and Workers' Medicals and Certificates of Acknowledgement
G. Respirator fit tests for all Supervisors and Workers
H. Contractor's daily log report
I. Enclosure entry/exit log
J. Fully executed Waste Manifest(s), landfill receipts and Chain of Custody
K. Air monitoring results

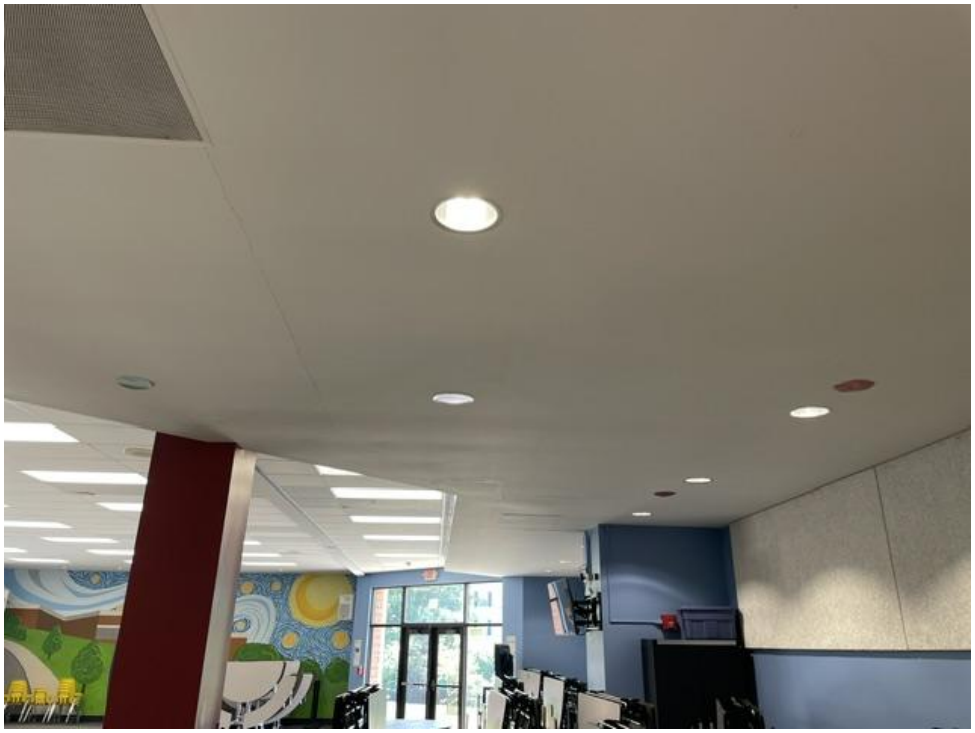
The items listed in the Contract Administration section and items D, E, F and G in the Project Summary section must be reviewed prior to beginning work on this project. Any supervisor(s) or worker(s) not having

this documentation will not be allowed to work on this project until such documentation is provided to the on-site representative.

The Abatement Contractor's project closeout documentation must be submitted to Owner's Consultant no later than 45 days after the last date worked by Abatement Contractor at the subject project site.

Parkway West Middle School – Building Renovations
Abatement Scope of Work Photographs
Taken August 3, 2026
Pinchin File No. R262.00457.002
Location: 2313 Baxter Road, Chesterfield, MO 63017

Photograph 1



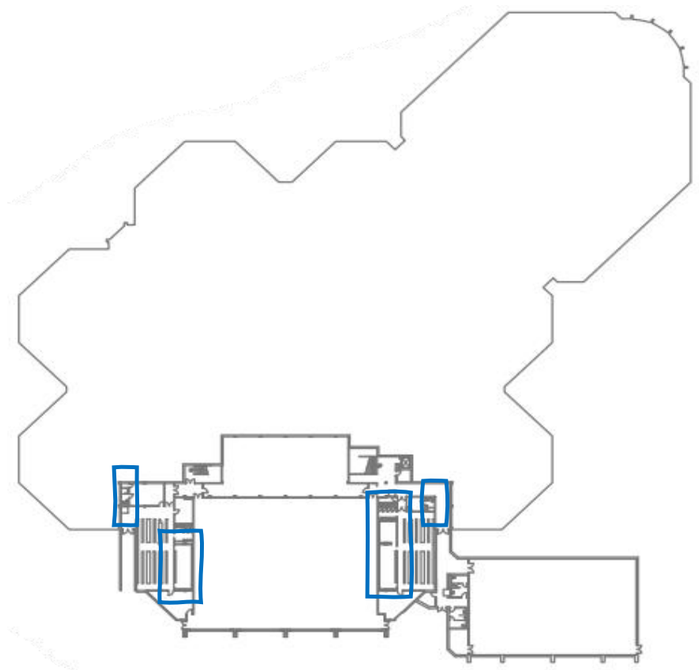
Abate and/or drill drywall ceilings where marked or have been indicated prior to abatement activities.

Photograph 2

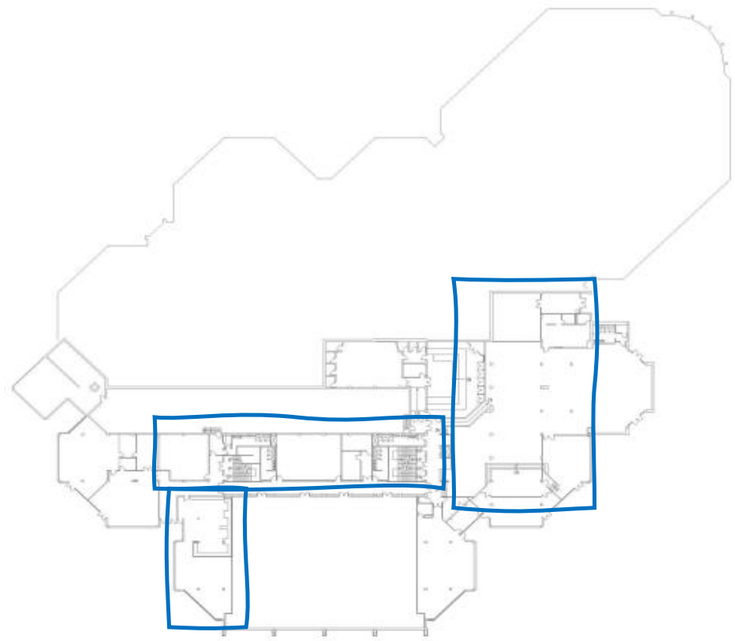


Abate and/or drill drywall walls where marked or have been indicated prior to abatement activities.

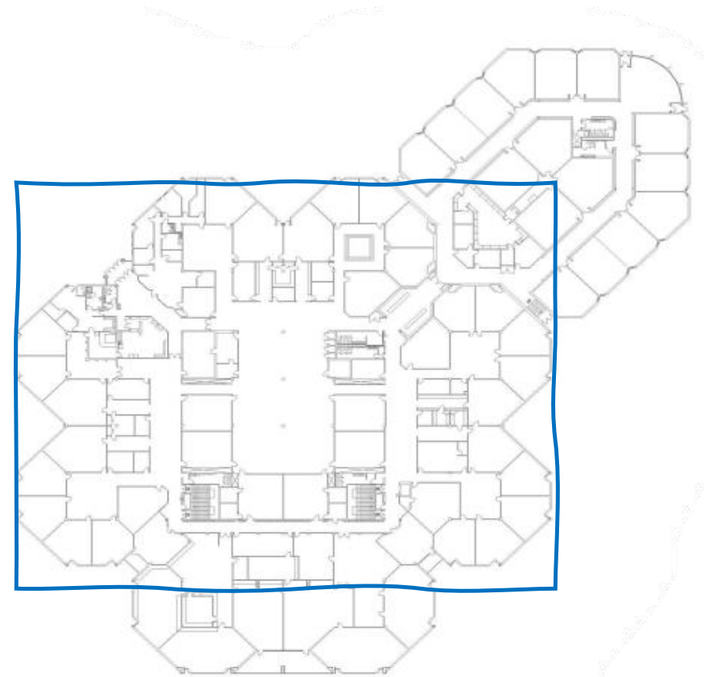
= ABATEMENT AREAS



First Level



Second Level

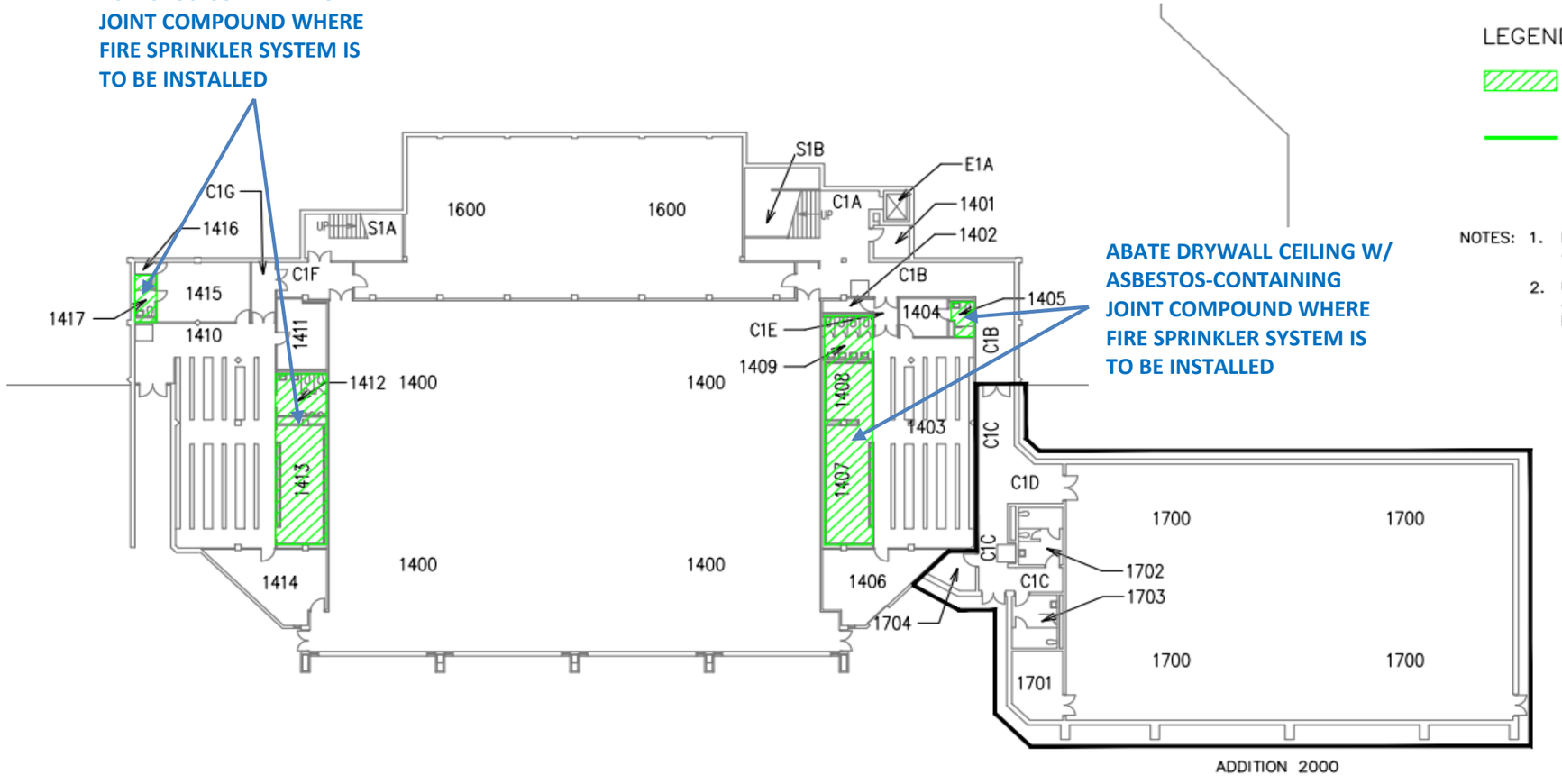


Third Level

Not to Scale

PINCHIN	Bond Architects - Parkway School District Parkway West Middle School 2312 Baxter Road Chesterfield, Missouri 63017	Pinchin File No.: R262.00457.002 Asbestos Abatement Drawings Date: August 3, 2026 Drawn by: MKSK

ABATE DRYWALL CEILING W/ ASBESTOS-CONTAINING JOINT COMPOUND WHERE FIRE SPRINKLER SYSTEM IS TO BE INSTALLED



ABATE DRYWALL CEILING W/ ASBESTOS-CONTAINING JOINT COMPOUND WHERE FIRE SPRINKLER SYSTEM IS TO BE INSTALLED

LEGEND

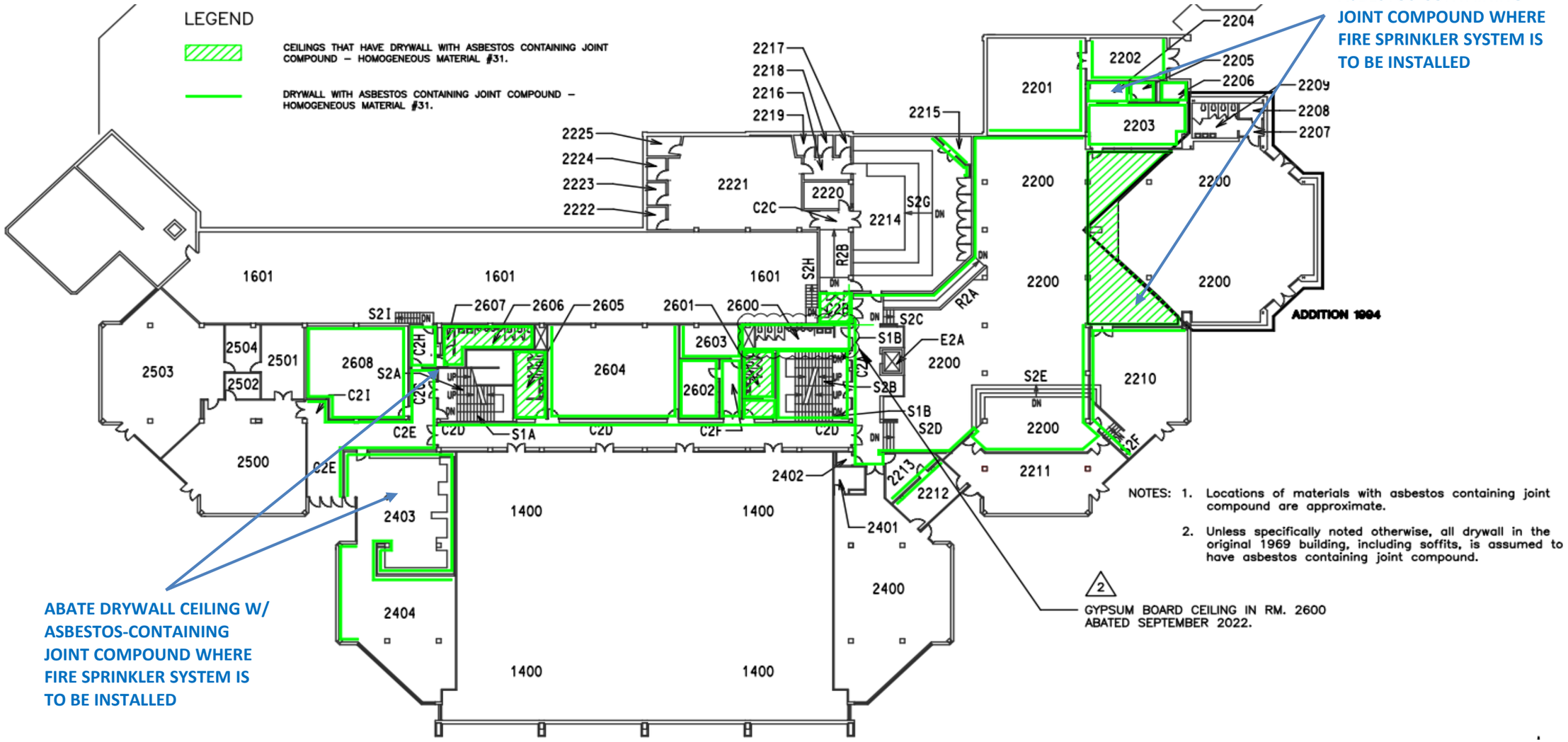
CEILINGS THAT HAVE DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #31.

DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #31.

NOTES:
1. Locations of materials with asbestos containing joint compound are approximate.
2. Unless specifically noted otherwise, all drywall in the original 1969 building, including soffits, is assumed to have asbestos containing joint compound.

First Level

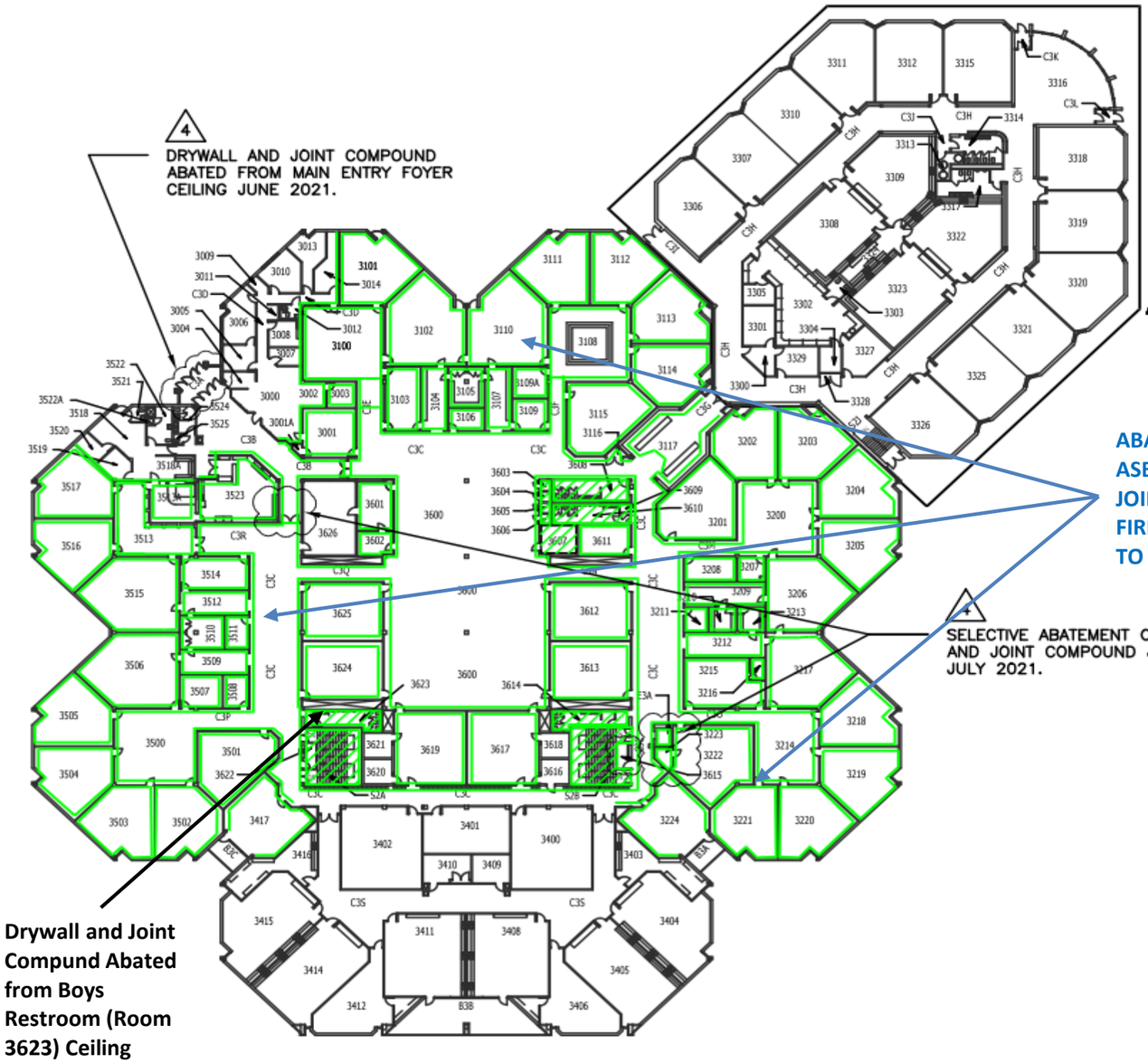
PINCHIN	**Bond Architects - Parkway School District** **Parkway West Middle School** **2312 Baxter Road** **Chesterfield, Missouri 63017**	**Pinchin File No.: R262.00457.002** **Asbestos Abatement Drawings - Joint Compound** **Date:** **Drawn by:** **August 3, 2026** **MKSK**



Second Level

Not to Scale

PINCHIN	Bond Architects - Parkway School District Parkway West Middle School 2312 Baxter Road Chesterfield, Missouri 63017	Pinchin File No.: R262.00457.002 Asbestos Abatement Drawings - Joint Compound Date: August 3, 2026 Drawn by: MKSK



LEGEND

CEILINGS THAT HAVE DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #31.

DRYWALL WITH ASBESTOS CONTAINING JOINT COMPOUND – HOMOGENEOUS MATERIAL #31.

NOTES:
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Third Level

Not to Scale

PINCHIN	Bond Architects - Parkway School District Parkway West Middle School 2312 Baxter Road Chesterfield, Missouri 63017	Pinchin File No.: R262.00457.002 Asbestos Abatement Drawings - Joint Compound Date: August 3, 2026 Drawn by: MKSK

SECTION 012000
PRICE AND PAYMENT PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Procedures for preparation and submittal of applications for progress payments.

B. Documentation of changes in Contract Sum and Contract Time.

C. Change procedures.

D. Correlation of Contractor submittals based on changes.

E. Procedures for permit, municipal surety bonds, and utility connection fee reimbursements.

F. Procedures for preparation and submittal of application for final payment.

1.02 RELATED REQUIREMENTS

A. Section 005000 - Contracting Forms and Supplements: Forms to be used.

B. Section 005200 - Agreement Form: Contract Sum, retainages, payment period, monetary values of unit prices.

C. Section 007200 - General Conditions: Additional requirements for progress payments, final payment, changes in the Work.

D. Document 012100 - Allowances: Payment procedures relating to allowances.

E. Section 012200 - Unit Prices: Monetary values of unit prices; Payment and modification procedures relating to unit prices.

F. Section 017800 - Closeout Submittals: Project record documents.

1.03 SCHEDULE OF VALUES

A. Format: Submit required information either in typewritten form or on electronic media printout.
   1. Form is included in Section 006000.
   2. A blank electronic form for electronic media printout is provided on the Owner's electronic document management system - Forms & Standards tab - Project Forms Library table.

B. Forms filled out by hand will not be accepted.

C. Submit initial Schedule of Values within 28 days after date established in Notice to Proceed to Construction Manager.
   1. Owner Review: After review by Owner, revise and resubmit corrected Schedule of Values within 7 days. Continue process until Owner accepts Schedule of Values in conformance with requirements of this section.
   2. Owner will not process Applications for Payment until Schedule of Values is approved.

D. Content: Utilize the Table of Contents of this Project Manual. Identify each line item with number and title of the specification Section.
   1. Include separate line items for each of the following:
      a. Bonds.
      b. Insurance.
      c. General requirements.
      d. Overhead and profit.
      e. Record documents at 3 percent of Contract Sum.
      f. The amount of each Allowance identified in Section 012100.
   2. Round off figures to nearest one hundred dollars.
   3. Make sum of total costs of all items listed in Schedule of Values equal to Contract Sum.

E. Revise schedule to list approved Change Orders with each Application For Payment.

1.04 APPLICATIONS FOR PROGRESS PAYMENTS

A. Payment Period: Submit at intervals stipulated in the Agreement.

B. Format: Submit required information either in typewritten form or on electronic media printout.
   1. Form is included in Section 006000.
   2. A blank electronic form for electronic media printout is provided on the Owner's electronic document management system - Forms & Standards tab - Project Forms Library table.

C. Forms filled out by hand will not be accepted.

D. Execute certification by signature of authorized officer.

E. Use data from approved Schedule of Values. Provide dollar value in each column for each line item for portion of work performed and for stored products.

F. List each authorized Change Order as a separate line item, listing Change Order number and dollar amount as for an original item of work.

G. Submit two copies of each Application for Payment to the Owner.
   1. Transmittal letter as specified for submittals in Section 013000.
   2. Include the following with the application:
      a. Two copies of updated Schedule of Values supporting Application for Payment.
      b. One copy of certified payroll forms for all Contractor and Subcontractor employees working on the Project Site during payment period.
      c. Once copy of construction progress schedule, revised and current as specified in Section 013000.
         1) Alternatively Contractor may submit progress schedule to Owner's electronic document management system - Project Contracts tab - Miscellaneous Documents Table no earlier than 5 days prior to submission of the Application for Payment and include a note stating such with the Application for Payment.
      d. One copy of partial release of liens from major Subcontractors and vendors beginning with second Application for Payment.
      e. Two copies of affidavits attesting to off-site stored products, if any.

H. When Owner requires substantiating information, submit data justifying dollar amounts in question.
   1. Substantiating information shall include actual vendor price quotes to Contractor.

I. Incorrect or incomplete Applications for Payment:
   1. Owner will promptly return to Contractor with a written description of which documents are incorrect or incomplete.
   2. If, in the opinion of the Owner, the incorrectness or incompleteness of the Application for Payment is minor in character, then the Owner will contact the Contractor to discuss the corrections necessary, make the corrections, and send a corrected copy of the Application for Payment to the Contractor to expedite the approval process.

1.05 MODIFICATION PROCEDURES

A. Submit name of the individual authorized to receive change documents and who will be responsible for informing others in Contractor's employ or Subcontractors of changes to the Contract Documents.

B. Supplementary Instructions: Owner will issue a supplementary instruction prepared by the Architect for minor changes not involving an adjustment to the Contract Sum or Contract Time.
   1. Supplementary instructions will be issued through the Owner's electronic document management system.
   2. Supplementary instructions will be stored in the Owner's electronic document management system - Project Contracts tab - Supplementary Instructions table for this Project.

C. Owner Initiated Changes: Owner will issue a Change Directive document that includes a detailed description of a proposed change with, if necessary, supplementary or revised drawings and specifications, proposed method of price quotation, and proposed change in Contract Time for executing the change . Contractor shall prepare and submit a price quotation within 7 days.
   1. Execution of Change Directives:
      a. Change Directives will be issued through the Owner's electronic document management system.
      b. Approved Change Directives will be stored in the Owner's electronic document management system - Project Contracts tab - Change Requests table for this Project.
      c. Architect and Contractor shall review the Change Directive and:
         1) If in agreement with the proposed methods for changing the Contract Sum or Contract Time, the Architect and Contractor shall approve the Change Directive no later than 2 work days from receipt.
         2) If not in agreement with the proposed methods for changing the Contract Sum or Contract Time, Architect or Contractor shall reject the Change Directive and provide reason for the rejection no later than 2 work days from receipt.
         3) Owner will reissue Change Directive<> for approval upon conclusion of negotiations to satisfy the reason for the rejection by the Architect or Contractor.
      d. Issuance and approval of Change Directive is not an authorization to begin the Work unless the Contract Sum adjustment type is Time & Material.
   2. Execution of Proposals in Response to Change Directives:
      a. Proposals in response to Change Directives will be issued through the Owner's electronic document management system.
      b. Approved proposals will be stored in the Owner's electronic document management system - Project Contracts tab - Claims and Change Directive Response Proposals table for this Project.
      c. Contractor shall initiate New Claim or CD Proposal workflow by completing the required fields and attaching supporting documentation for proposal based on proposed method of price quotation and proposed change in Contract Time described in the approved Change Directive.
      d. Owner and Architect will review proposal and:
         1) If in agreement with the proposal, Owner will approve the proposal, notify Contractor, and initiate Change Order workflow no later than 2 work days from receipt.
         2) If not in agreement with the proposal, Owner will reject proposal and provide reason for the rejection no later than 2 work days from receipt.
         3) Contractor will resubmit the proposal upon conclusion of negotiations to satisfy the reason for rejection by the Owner or Architect.
         4) Owner will review resubmitted proposal and repeat execution steps described previously or cancel Change Directive if negotiations are unsuccessful.

D. Contractor Initiated Changes: Contractor may propose a change by submitting a Claim for change, with a statement describing the reason for the Claim, the effect on the Contract Sum or Contract Time or both, and with full documentation supporting the effect on Contract Sum or Contract Time or both and a statement describing the effect on Work by separate or other contractors. Document any requested substitutions in accordance with Section 01 6000.
   1. Execution of Contractor's Claims:
      a. Contractor's Claims will be issued through the Owner's electronic document management system.
      b. Approved Claims will be stored in the Owner's electronic document management system - Project Contracts tab - Claims and Change Directive Response Proposals table for this Project.
      c. Owner and Architect will review Claim and:

1) If in agreement with the Claim, Owner will approve the Claim, notify Contractor, and initiate Change Order workflow no later than 2 work days from receipt.
2) If not in agreement with the Claim, Owner will reject Claim and provide reason for the rejection no later than 2 work days from receipt.
3) Contractor will resubmit the Claim upon conclusion of negotiations to satisfy the reason for rejection by the Owner or Architect.
4) Owner will review Claim and repeat execution steps described previously or void Claim if negotiations prove Claim is invalid or if negotiations are unsuccessful.

E. Substantiation of Costs: Provide full information required for evaluation.
1. Provide following data:
a. Quantities of products, labor, and equipment.
b. Taxes, insurance, and bonds.
c. Overhead and profit.
d. Justification for any change in Contract Time.
e. Credit for deletions from Contract, similarly documented.
2. Support each Claim for additional costs or time with additional information:
a. Origin of Claim.
b. Dates and times work was performed, and by whom.
c. Time records and wage rates paid.
d. Invoices and receipts for products, equipment, and subcontracts, similarly documented.
3. For Time and Material work, submit itemized account and supporting data after completion of change, within time limits indicated in the Conditions of the Contract.

F. Change Orders: Owner will issue a Change Order document that includes a detailed description of a proposed change with, if necessary supplementary or revised drawings and specifications, proposed change in Contract Sum, and proposed change in Contract Time.
1. Execution of Change Orders:
a. Change Orders will be issued through the Owner's electronic document management system.
b. Approved Change Orders will be stored in the Owner's electronic document management system - Project Contracts tab - Change Orders table for this Project.
c. Architect and Contractor shall review the Change Order and:
1) If in agreement with the proposed methods for changing the Contract Sum or Contract Time, the Architect and Contractor shall approve the Change Order no later than 2 work days from receipt.
2) If not in agreement with the proposed methods for changing the Contract Sum or Contract Time, Architect or Contractor shall reject the Change Order and provide reason for rejection no later than 2 work days from receipt.
3) Owner will reissue Change Order for approval upon conclusion of negotiations to satisfy the reason for the rejection by the Architect or Contractor.

G. After execution of Change Order, promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as a separate line item in order at the end of the schedule and adjust the Contract Sum.

H. Promptly revise progress schedules to reflect any change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.

I. Promptly enter changes in Project Record Documents.

1.06 PERMIT, MUNICIPAL SURETY BONDS, AND UTILITY CONNECTION FEE REIMBURSEMENTS

1.07 APPLICATION FOR FINAL PAYMENT

A. Prepare Application for Final Payment as specified for progress payments, identifying total adjusted Contract Sum, previous payments, and sum remaining due.

B. Application for Final Payment will not be considered until the following have been accomplished:
   1. All closeout procedures specified in Section 017000.

END OF SECTION 012000

SECTION 012200
UNIT PRICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. List of unit prices, for use in preparing Bids.

B. Measurement and payment criteria applicable to Work performed under a unit price payment method.

C. Defect assessment and non-payment for rejected work.

1.02 RELATED REQUIREMENTS

A. Document 004322 - Unit Prices Form: List of Unit Prices as supplement to Bid Form

B. Section 012000 - Price and Payment Procedures: Additional payment and modification procedures.

1.03 COSTS INCLUDED

A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

1.04 UNIT QUANTITIES SPECIFIED

A. Quantities indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.

1.05 MEASUREMENT OF QUANTITIES

A. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.

B. Take all measurements and compute quantities. Measurements and quantities will be verified by Owner.

C. Assist by providing necessary equipment, workers, and survey personnel as required.

D. Measurement Devices:
   1. Weigh Scales: Inspected, tested and certified by the applicable state Weights and Measures department within the past year.
   2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
   3. Metering Devices: Inspected, tested and certified by the applicable state department within the past year.

E. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.

F. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.

G. Measurement by Area: Measured by square dimension using mean length and width or radius.

H. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.

I. Stipulated Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as a completed item or unit of the Work.

J. Perform surveys required to determine quantities, including control surveys to establish measurement reference lines. Notify Architect prior to starting work.

1.06 PAYMENT

A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Architect, multiplied by the unit price.

B. Payment will not be made for any of the following:
   1. Products wasted or disposed of in a manner that is not acceptable.
   2. Products determined as unacceptable before or after placement.
   3. Products not completely unloaded from the transporting vehicle.
   4. Products placed beyond the lines and levels of the required Work.
   5. Products remaining on hand after completion of the Work.
   6. Loading, hauling, and disposing of rejected Products.

1.07 DEFECT ASSESSMENT

A. Replace Work, or portions of the Work, not complying with specified requirements.

B. If, in the opinion of Owner, it is not practical to remove and replace the Work, Owner will direct one of the following remedies:
   1. The defective Work may remain, but the unit price will be adjusted to a new unit price at the discretion of Owner.
   2. The defective Work will be partially repaired to the instructions of the Owner, and the unit price will be adjusted to a new unit price at the discretion of Owner.

C. The individual specification sections may modify these options or may identify a specific formula or percentage price reduction.

D. The authority of Owner to assess the defect and identify payment adjustment is final.

1.08 SCHEDULE OF UNIT PRICES

A. Item: I - Hazardous Materials Abatement Labor Rates and Unit Costs; Section 028213 - Removal of Asbestos Containing Materials, Section 028233 - Disposal of Asbestos Containing Waste Materials and Section 028400 - Hazardous Waste Management.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 012200

SECTION 012300
ALTERNATES

PART 1 GENERAL

1.01 SECTION INCLUDES

1.02 RELATED REQUIREMENTS

A. Document 005200 - Agreement Form: Incorporating monetary value of accepted Alternates.

1.03 ACCEPTANCE OF ALTERNATES

A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.

B. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

1.04 SCHEDULE OF ALTERNATES

A. Alternate No. 01 - Multipurpose Gym Renovation:
   1. Base Bid Item: Section _____ and Drawing number ____ including _____.
   2. Alternate Item: Section _____ and Drawing number ____ including _____.

B. Alternate No. 02 - Stainless Steel Pool Gutter:

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 012300

SECTION 012500
SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Procedural requirements for proposed substitutions.

1.02 RELATED REQUIREMENTS

A. Section 002113 - Instructions to Bidders: Restrictions on timing of substitution requests.

B. Section 013000 - Administrative Requirements: Submittal procedures, coordination.

C. Section 016000 - Product Requirements: Fundamental product requirements, product options, delivery, storage, and handling.

D. Section 016116 - Volatile Organic Compound (VOC) Content Restrictions: Restrictions on emissions of indoor substitute products.

1.03 DEFINITIONS

A. Substitutions: Changes from Contract Documents requirements proposed by Contractor to materials, products, assemblies, and equipment.
   1. Substitutions for Cause: Proposed due to changed Project circumstances beyond Contractor's control.
      a. The specified product becomes unavailable through no fault of the Contractor.
      b. The specified product or method of construction cannot be provided within the contract time.
         1) The request will not be considered if the product or method cannot be provided as a result of failure of the Contractor to pursue the Work promptly or coordinate activities properly.
      c. The specified product or method of construction cannot receive necessary approvalby authorities having jurisdiction, and the requested substitution can be approved.
   2. Substitutions for Convenience: Proposed due to possibility of offering substantial advantage to the Project.
      a. Substitution requests offering advantages solely to the Contractor will not be considered.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. A Substitution Request for products, assemblies, materials, and equipment constitutes a representation that the submitter:
   1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product, equipment, assembly, or system.
   2. Agrees to provide the same warranty for the substitution as for the specified product.
   3. Agrees to coordinate installation and make changes to other work that may be required for the work to be complete, with no additional cost to Owner.
   4. Waives claims for additional costs or time extension that may subsequently become apparent.
   5. Agrees to reimburse Owner and Architect for review or redesign services associated with re-approval by authorities.

B. A Substitution Request for specified installer constitutes a representation that the submitter:
   1. Has acted in good faith to obtain services of specified installer, but was unable to come to commercial, or other terms.

C. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents. Burden of proof is on proposer.
   1. Note explicitly any non-compliant characteristics.

D. Content: Include information necessary for tracking the status of each Substitution Request, and information necessary to provide an actionable response.
   1. No specific form is required. Contractor's Substitution Request documentation must include the following:
      a. Project Information:
         1) Official project name and number, and any additional required identifiers established in Contract Documents.
      b. Substitution Request Information:
         1) Discrete and consecutive Substitution Request number, and descriptive subject/title.
         2) Indication of whether the substitution is for cause or convenience.
         3) Issue date.
         4) Reference to particular Contract Document(s) specification section number, title, and article/paragraph(s).
         5) Description of Substitution.
         6) Reason why the specified item cannot be provided.
         7) Differences between proposed substitution and specified item.
         8) Description of how proposed substitution affects other parts of work.
      c. Attached Comparative Data: Provide point-by-point, side-by-side comparison addressing essential attributes specified, as appropriate and relevant for the item:
         1) Physical characteristics.
         2) In-service performance.
         3) Expected durability.
         4) Visual effect.
         5) Warranties.
         6) Other salient features and requirements.
         7) Include, as appropriate or requested, the following types of documentation:
            (a) Product Data:
            (b) Samples.
            (c) Certificates, test, reports or similar qualification data.
            (d) Drawings, when required to show impact on adjacent construction elements.
      d. Impact of Substitution:
         1) Savings to Owner for accepting substitution.
         2) Change to Contract Time due to accepting substitution.

E. Limit each request to a single proposed substitution item.
   1. Submit an electronic document, combining the request form with supporting data into single document.

3.02 SUBSTITUTION PROCEDURES DURING PROCUREMENT

A. Submittal Time Restrictions:
   1. Section 002113 - Instructions to Bidders specifies time restrictions and the documents required for submitting substitution requests during the bidding period.

3.03 SUBSTITUTION PROCEDURES DURING CONSTRUCTION

A. Submit request for Substitution for Cause within 14 days of discovery of need for substitution, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.

B. Submit request for Substitution for Convenience within 14 days of discovery of its potential advantage to the project, but not later than 14 days prior to time required for review and approval by Architect, in order to stay on approved project schedule.
   1. In addition to meeting general documentation requirements, document how the requested substitution benefits the Owner through cost savings, time savings, greater energy conservation, or in other specific ways.
   2. Document means of coordinating of substitution item with other portions of the work, including work by affected subcontractors.
   3. Bear the costs engendered by proposed substitution of:
      a. Owner's compensation to the Architect for any required redesign, time spent processing and evaluating the request.
      b. Other construction by Owner.
      c. Other unanticipated project considerations.

C. Substitutions will not be considered under one or more of the following circumstances:
   1. When they are indicated or implied on shop drawing or product data submittals, without having received prior approval.
   2. Without a separate written request.
   3. When acceptance will require revisions to Contract Documents.

3.04 RESOLUTION

A. Owner and Consultant may request additional information and documentation prior to rendering a decision. Provide this data in an expeditious manner.

B. Owner and Consultant will notify Contractor in writing of decision to accept or reject request.
   1. Ownerand Consultant's decision following review of proposed substitution will be noted on the submitted form.

3.05 ACCEPTANCE

A. Accepted substitutions change the work of the Project. They will be documented and incorporated into work of the project by Change Order, Construction Change Directive, Architectural Supplementary Instructions, or similar instruments provided for in the Conditions of the Contract.

END OF SECTION 012500

SECTION 013000
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General administrative requirements.

B. Electronic document management system.

C. Preconstruction meeting.

D. Site mobilization meeting.

E. Progress meetings.

F. Subcontractor listing.

G. Construction progress schedule.

H. Progress photographs.

I. Submittals for review, information, and project closeout.

J. Number of copies of submittals.

K. Requests for Information (RFI) procedures.

L. Submittal procedures.

M. Substance abuse testing.

1.02 RELATED REQUIREMENTS

A. Section 007200 - General Conditions: Dates for applications for payment.

B. Section 013216 - Construction Progress Schedule: Form, content, and administration of schedules.

C. Section 016000 - Product Requirements: General product requirements.

D. Section 017000 - Execution and Closeout Requirements: Additional coordination requirements.

E. Section 017800 - Closeout Submittals: Project record documents; operation and maintenance data; warranties and bonds.

1.03 GENERAL ADMINISTRATIVE REQUIREMENTS

A. Comply with requirements of Section 017000 - Execution and Closeout Requirements for coordination of execution of administrative tasks with timing of construction activities.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 ELECTRONIC DOCUMENT MANAGEMENT SYSTEM

A. Owner maintains an electronic document management system for the processing and storage of project documentation.

B. Access requirements:

1. To access the electronic document management system effectively Construction Manager shall maintain a minimum of one cable modem internet connection at Construction Manager's office from the Notice to Proceed date through the 1 year warranty period following the Substantial Completion date.
2. The electronic document management system is a web based application and is accessible through the internet with a web browser application.
3. Provide Windows Explorer version 8 or later on computers accessing the document management system as this is the only web browser supported by the system.
4. Owner will provide to the Contractor a maximum of 4 usernames to access the system.

C. Training:
   1. Owner will provide an electronic version of the user manual to Construction Manager that instructs the user in a step-by-step basis how to set-up the user's web browser to access the system and to interact with the system.
   2. Construction Manager shall be required to attend one two hour training session provided by Owner at Owner's facility.
      a. This requirement will be waived if Construction Manager has prior experience using Owner's electronic document management system.
   3. Owner will schedule training session with Construction Manager within 3 days from Notice to Proceed date.
   4. Construction Manager attendees:
      a. Project Manager.
      b. Project Superintendent.
      c. Contract representative if different from Project Manager.
         1) Contract representative is emloyee empowered to approve Construction Change Directives and Change Orders.
      d. Project secretary at Construction Manager 's option.

D. Support:
   1. Any questions regarding functionality or problems experienced using the electronic document management system shall be directed to the Owner, not the software vendor.

E. Use:
   1. The intent is to use the electronic document system for the following:
      a. Submission, review, comment, issuance, and filing of all contractual and technical submittals.
      b. Submission, review, response, issuance, and filing of all requests for information.
      c. Issuance and filing of all Supplementary Instructions.
      d. Submission, review, comment, approval, and filing of all Claims and Construction Change Directive response proposals.
      e. Issuance, approval, and filing of all Construction Change Directives.
      f. Issuance, approval, and filing of all Change Orders.
      g. Submission and filing of Construction Manager's Daily Project Reports.
      h. Preparation and filing of Subcontractor's listing.
      i. Mark-up and filing of record documents.
      j. Issuance, approval, and filing of the Certificate of Substantial Completion and list of items required to be completed for Final Payment.
      k. Submission, issuance, and filing of miscellaneous documents including, but not limited to meeting minutes, telephone conversation confirmations, written correspondence converted to electronic format, photographs, updated progress schedules, and other documents pertaining to the project as required in these specifications.
   2. Issuance is defined as notification of document availability on electronice document system for action or review.
   3. Owner, Architect, and Construction Manager shall be required to distribute documents to personnel under the respective authority of each that do not have access to the electronic document management system.
   4. Approval of documents in the electronic document management system will be legally binding as if they had been signed by the approving party.

3.02 PRECONSTRUCTION MEETING

A. Owner will schedule a meeting after Notice to Proceed date.

B. Attendance Required:
   1. Owner.

2. Architect.
3. Contractor.
4. Contractor's Superintendent.
5. CM Superintendent(s)
6. Major Subcontractors.
7. Geotechnical Engineer.
8. Owner's Independent Testing Agency Representative if any.

C. Agenda:
1. Execution of Owner- Construction Manager Service Order Agreement.
2. Submission of executed bonds and insurance certificates.
3. Distribution of Contract Documents.
4. Creation of Subontractor list in Owner's electronic document management system, schedule of values, and progress schedule.
5. Designation of personnel representing the parties to the Contract; Owner, Architect, and Contractor .
6. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
7. Scheduling.
8. Application for payment procedures.
9. Progress cleaning, waste removal, and waste recovery.
10. Procedures for maintaining record documents.
11. Hazardous materials notification and procedures.
12. Procedures for logging of worker OSHA 10 Hour Construction Safety & Health Training certification.
13. Scheduling activities of a Geotechnical Engineer.

D. Record minutes and submit within two days after meeting to Owner's electronic document management system as a Miscellaneous Document.
1. Meeting minutes will be stored in Owner's electronice document management system - Project Contracts tab - Miscellaneous Documents table for this Project.

3.03 SITE MOBILIZATION MEETING

A. Owner may schedule a meeting at the Project site prior to Contractor occupancy if warranted by the scope of the Work.

B. Attendance Required:
1. Contractor.
2. Owner.
3. Architect.
4. Special consultants.
5. Contractor's superintendent.
6. Major subcontractors.
7. Owner's Tenant Representative.

C. Agenda:
1. Use of premises by Owner and Contractor.
2. Owner's requirements and partial occupancy prior to completion.
3. Construction facilities and controls provided by Owner.
4. Temporary utilities provided by Owner.
5. Survey and building layout.
6. Security and housekeeping procedures.
7. Protection of existing facilities.
8. Waste removal and waste recovery collection locations.
9. Schedules.

10. Application for payment procedures.
11. Procedures for testing.
12. Procedures for maintaining record documents.
13. Requirements for start-up of equipment.
14. Inspection and acceptance of equipment put into service during construction period.

D. Record minutes and distribute copies within two days after meeting to participants, with one copy to Architect, Owner, participants, and those affected by decisions made.

3.04 PROGRESS MEETINGS

A. Schedule and administer meetings between Notice to Proceed and start of the Work at the site at bi-weekly intervals.

B. Schedule and administer meetings throughout progress of the Work at weekly intervals.

C. The Owner reserves the right to lengthen the interval between progress meetings as project requirements dictate.

D. The Owner reserves the right to call for special progress meetings if the Construction Manager is falling behind on schedule or is in non-compliance with Contract requirements.

E. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.

F. Attendance Required:
1. Contractor.
2. Owner.
3. Architect.
4. Special Consultants as needed.
5. Contractor's superintendent.
6. Major Subcontractors as needed.

G. Agenda:
1. Review minutes of previous meetings.
2. Review of work progress.
3. Field observations, problems, and decisions.
4. Schedule
    a. Identification of problems that impede, or will impede, planned progress.
    b. Review of submittals schedule and status of submittals.
    c. Review of RFIs log and status of responses.
    d. Review of off-site fabrication and delivery schedules, if any.
    e. Maintenance of progress schedule.
    f. Corrective measures to regain projected schedules.
    g. Planned progress during succeeding work period.
    h. Coordination of projected progress.
5. Maintenance of quality and work standards.
6. Effect of proposed changes on progress schedule and coordination.
7. Safety and security issues.
    a. Review of worker OSHA 10 Hour Construction Safety & Health Training certification logs status.
    b. Review of hazardous material notification acknowledgement logs status.
8. Housekeeping and existing facility protection issues.
    a. Waste removal and waste recovery.
9. Review of record document status.
10. Other business relating to the Work.

H. Record minutes and distribute copies within two days after meeting to participants, with one copy to Architect, Owner, participants, and those affected by decisions made.

3.05 CLOSE-OUT PROGRESS MEETINGS

A. Schedule and administer meetings between Substantial Completion and Final Completion at the Owner's offices at bi-weekly intervals.

B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings.

C. Attendance Required:
   1. Contractor.
   2. Owner.
   3. Contractor's Superintendent as needed.
   4. Major Subcontractors as needed.

D. Agenda:
   1. Review minutes of previous meetings.
   2. Review of punch list Work progress.
   3. Field observations, problems, and decisions.
   4. Review of close-out submittals status.
      a. Extended warranties.
      b. Record document completion affidavits.
      c. Hazardous materials acknowledgement signature logs.
      d. OSHA ten hour construction safety training logs.
      e. Refrigerant management forms.
      f. Outstanding technical submittals.
      g. Consent of Surety.
   5. Other business relating to the close-out of the Work.

E. Record minutes and distribute copies within two days after meeting to participants, with one copy to Architect, Owner, participants, and those affected by decisions made.

3.06 SUBCONTRACTOR LISTING

A. Contractor shall provide a Subcontractor listing not later than 14 days after award of the Contract.

B. The listing will be input and stored in the Owner's electronic document management system - Project Contracts tab - Subcontractor table for this Project.

C. Provide the following information to complete the listing:
   1. Subcontractor company name.
   2. Primary contact name.
   3. Subcontract description identifying the work for which the Subcontractor is responsible.
   4. Subcontractor address.
   5. Telephone, cellular telephone, and facsimile numbers.
   6. Primary contact e-mail address.

3.07 CONSTRUCTION PROGRESS SCHEDULE - SEE SECTION 013216

3.08 PROGRESS PHOTOGRAPHS

A. Submit new photographs at least once a month or more often to show progress of the work, within 3 days after being taken.

B. Photography Type: Digital; electronic files.

C. Provide photographs of site and construction throughout progress of work produced by Construction Manager photographer, acceptable to Owner.

D. Views:
   1. Provide non-aerial photographs from various views at each specified time, until date of Substantial Completion.

2. Consult with Owner for instructions on views required.
3. Provide factual presentation.
4. Provide correct exposure and focus, high resolution and sharpness, maximum depth of field, and minimum distortion.

E. Digital Photographs: 24 bit color, minimum resolution of 1024 by 768, in JPG format; provide files unaltered by photo editing software.
1. Delivery Medium: Owner's document management system as a miscellaneous document.
2. File Naming: Include project identification, date and time of view, and view identification.

3.09 REQUESTS FOR (RFI)

A. Definition: A request seeking one of the following:
1. An interpretation, amplification, or clarification of some requirement of Contract Documents arising from inability to determine from them the exact material, process, or system to be installed; or when the elements of construction are required to occupy the same space (interference); or when an item of work is described differently at more than one place in Contract Documents.
2. A resolution to an issue which has arisen due to field conditions and affects design intent.

B. Whenever possible, request clarifications at the next appropriate project progress meeting, with response entered into meeting minutes, rendering unnecessary the issuance of a formal RFI.

C. Preparation: Prepare an RFI immediately upon discovery of a need for interpretation of Contract Documents. Failure to submit a RFI in a timely manner is not a legitimate cause for claiming additional costs or delays in execution of the work.
1. Prepare a separate RFI for each specific item.
a. Review, coordinate, and comment on requests originating with subcontractors and/or materials suppliers.
b. Do not forward requests which solely require internal coordination between subcontractors.
2. Contractor's shall issue the RFI through the Owner's electronic document management system.

D. Reason for the RFI: Prior to initiation of an RFI, carefully study all Contract Documents to confirm that information sufficient for their interpretation is definitely not included.
1. Unacceptable Uses for RFIs: Do not use RFIs to request the following::
a. Approval of submittals (use procedures specified elsewhere in this section).
b. Changes that entail change in Contract Time and Contract Sum (comply with provisions of the Conditions of the Contract and Section 012000 - Price and Payment Procedures).
c. Different methods of performing work than those indicated in the Contract Drawings and Specifications (comply with provisions of the Conditions of the Contract).
2. Improper RFIs: Requests not prepared in compliance with requirements of this section, and/or missing key information required to render an actionable response. They will be returned without a response, with an explanatory notation.
3. Frivolous RFIs: Requests regarding information that is clearly indicated on, or reasonably inferable from, Contract Documents, with no additional input required to clarify the question. They will be returned without a response, with an explanatory notation.
a. The Owner reserves the right to assess the Contractor for the costs (on time-and-materials basis) incurred by the Architect, and any of its consultants, due to processing of such RFIs.

E. Attachments: Include sketches, coordination drawings, descriptions, photos, submittals, and other information necessary to substantiate the reason for the request.

F. Review Time: Architect will respond and return RFIs to Contractor within seven calendar days of receipt. For the purpose of establishing the start of the mandated response period, RFIs received after 12:00 noon will be considered as having been received on the following regular working day.
   1. Response period may be shortened or lengthened for specific items, subject to mutual agreement, and recorded in a timely manner in progress meeting minutes.

G. Responses: Content of answered RFIs will not constitute in any manner a directive or authorization to perform extra work or delay the project. If in Contractor's belief it is likely to lead to a change to Contract Sum or Contract Time, promptly issue a notice to this effect, and follow up with an appropriate Change Order request to Owner.
   1. The RFI with response will be stored in the Owner's electronic document management system - Project Contracts tab - RFI's table for this Project.

3.10 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
   1. Product data.
   2. Shop drawings.
   3. Samples for selection.
   4. Samples for verification.

B. Submit for Owner and Architect for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.

C. Samples will be reviewed for aesthetic, color, or finish selection.

D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below.

3.11 SUBMITTALS FOR INFORMATION

A. When the following are specified in individual sections, submit them for information:
   1. Design data.
   2. Certificates.
   3. Test reports.
   4. Inspection reports.
   5. Manufacturer's instructions.
   6. Manufacturer's field reports.
   7. Refrigerant management Contractor Information and Licensing Input form and Service Order form.
   8. Hazardous materials acknowledgement signature logs.
   9. Other types indicated.

B. Submit for Owner's and Architect's review and knowledge in accordance with SUBMITTAL PROCEDURES article below.

3.12 SUBMITTALS FOR PROJECT CLOSEOUT

A. When the following are specified in individual sections, submit them at project closeout in compliance with requirements of Section 017800 - Closeout Submittals:
   1. Project record documents completion affidavit for drawings.
   2. Project record documents completion affidavit for specifications.
   3. Operation and maintenance data.
   4. Extended warranties (warranties greater than one year in length).
   5. Compliance with prevailing wage law affidavit.
   6. OSHA ten hour construction safety training log.
   7. Refrigerant management Equipment Installation/Removal Input form.
   8. Fire alarm system record of completion form, if scope of work modified the fire alarm system.

9. Other types as indicated.

B. Submit for Owner's benefit during and after project completion.

3.13 NUMBER OF COPIES OF SUBMITTALS

A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

B. Documents for Information: Submit one electronic document to the Owner's electronic document management system.

C. Samples: Deliver the number specified in individual specification sections, but not less than two, under transmittal to the Owner's and Architect's business address; two of which will be retained by the Owner and the Architect respectively.
   1. Submit one electronic document of the delivery transmittal to the Owner's electronic document management system documenting physical sample delivery to Owner and Architect.
   2. After review, produce duplicates.
   3. Retained samples will not be returned to Contractor unless specifically so stated.

3.14 SUBMITTAL PROCEDURES

A. General Requirements:
   1. Submit to Owner's electronic document management system as a Submittal.
      a. Submittals and sample submittal transmittals will be stored in the Owner's electronic document management system - Project Contracts tab - Submittals table for this Project.
   2. Identify: Project; Contractor; subcontractor or supplier; pertinent drawing and detail number; and specification section number and article/paragraph, as appropriate on submittal.
   3. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the work and Contract Documents.
      a. Submittals from sources other than the Contractor, or without Contractor's stamp will not be acknowledged, reviewed, or returned.
   4. Schedule submittals to expedite the Project, and coordinate submission of related items.
      a. All submittals shall be due with 42 days from Notice to Proceed date unless specifically identified with a different due date in these specifications or under the following exceptions:
         1) The submittal cannot be made until a part of the Work is installed, in which case the submittal shall be made as specifically identified in these specifications, but in no case longer than 21 days from the completion of the installation.
         2) The submittal is a closeout submittal, in which case the submittal shall be made in accordance with the requirements of Section 017800 - Closeout Submittals.
   5. Schedule submittals to expedite the Project, and coordinate submission of related items.
      a. For each submittal for review, allow 14 days excluding delivery time to and from the Contractor.
   6. Identify variations from Contract Documents and product or system limitations that may be detrimental to successful performance of the completed work.
   7. When revised for resubmission, identify all changes made since previous submission.
   8. Distribute reviewed submittals. Instruct parties to promptly report inability to comply with requirements.
   9. Incomplete submittals will not be reviewed, unless they are partial submittals for distinct portion(s) of the work, and have received prior approval for their use.
   10. Submittals not requested will be recognized, and will be returned "Not Reviewed",

B. Product Data Procedures:

1. Submit only information required by individual specification sections.
2. Collect required information into a single submittal.
3. Submit concurrently with related shop drawing submittal.
4. Do not submit (Material) Safety Data Sheets for materials or products.

C. Shop Drawing Procedures:
1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting Contract Documents and coordinating related work.
2. Use of reproductions of the Contract Documents in digital data form to create shop drawings is only permitted with the expressed consent of the Architect under the terms and conditions solely determined by the Architect.
a. Contractor shall contact the Architect directly to obtain the required permissions.
3. Generic, non-project-specific information submitted as shop drawings do not meet the requirements for shop drawings.

D. Samples Procedures:
1. Transmit related items together as single package.
2. Identify each item to allow review for applicability in relation to shop drawings showing installation locations.

3.15 SUBMITTAL REVIEW

A. Submittals for Review: Owner and Architect will review each submittal and comment on any exceptions, or take other appropriate action.

B. Submittals for Information: Owner and Architect will acknowledge receipt and review. See below for actions to be taken.

C. Owner's and Architect's actions will be reflected by marking each returned submittal using virtual stamp on electronic submittals.

D. Architect's and his consultants' actions on items submitted for review or information:
1. Authorizing purchasing, fabrication, delivery, and installation:
a. "Reviewed - No Exceptions"
b. "Reviewed - Exceptions Noted"
1) Contractor is authorized to proceed only if the review notations are incorporated.
2. Not Authorizing fabrication, delivery, and installation:
a. "Reviewed - Exceptions Noted - Resubmit"
1) Submittal is not in compliance with some requirements of the Contract Documents or is lacking information necessary to fully review the submittal.
2) Resubmit the submittal with revised item or items, with review notations acknowledged and incorporated.
3) Non-responsive resubmittals may be rejected.
b. "Reviewed - Rejected"
1) Submittal is substantially not in compliance with requirements of the Contract Documents.
2) Submit a new submittal complying with requirements of the Contract Documents.
c. "Not Reviewed - Not Applicable"
1) Submittal is not required or is not applicable to the Project.
2) Submit a new submittal with applicable documentation, if necessary.

3.16 SUBSTANCE ABUSE TESTING

A. Objective:
1. The objective of this Substance Abuse Testing Program is improved job site safety and morale.

2. This is not intended as a substitute for the Contractor's or Subcontractors' complete written substance abuse policy that is recommended to include other important features, including an employee education and awareness program, a supervisor training program, and an employee assistance program.

B. Contractual Requirements:
   1. The Contractor shall have and enforce, as a minimum, a written Substance Abuse Program incorporating the testing requirements, terms and conditions set forth in this Substance Abuse Testing paragraph applicable to all its employees and prospective employees in order to be eligible to perform the Owner's work.
      a. The Contractor and all Subcontractors shall comply with this Substance Abuse Testing paragraph.
      b. Suppliers, vendors, and visitors are subject to confirmation of their abstinence from the possession or use of substances indicated in this Substance Abuse Testing paragraph.
   2. Programs which meet the requirements of this Substance Abuse Testing paragraph include:
      a. St. Louis Construction Industry Substance Abuse Consortium.
      b. Unified Drug and Alcohol Testing Policy and Procedure for the Pipefitters Local Union Number 562 and the Mechanical Contractors Association of St. Louis
      c. Substance Abuse Testing Program for the Electricians Local Union Number 1 and the National Electrical Contractors Association of St. Louis.
      d. Drug and Alcohol Testing Program of the Carpenters' District Council of Greater St. Louis and Vicinity.
      e. Drug and Alcohol Testing Program of the Sheet Metal Workers Local Union 36.
      f. Eastern Missouri Laborers District Council Substance Abuse Consortium.
   3. Submittal to the Owner of written evidence of enrollment in any of the previously listed programs shall satisfy the requirements with regard to pre-engagement and random testing.
   4. The Substance Abuse Program will apply to the Contractor and Subcontractors' employees on the Owner's site of construction including workers, new hires, replacements, and supervisory personnel.
   5. No employee or prospective employee of a Contractor or Subcontractor will be permitted to work on the Owner's site of construction unless such employee has submitted to testing as required and unless the results of such testing are negative as hereinafter defined.
   6. The Contractor and each Subcontractor shall train its employees in methods that will allow them to recognize substance abusers.
   7. Supervisory employees of the Contractor or Subcontractor shall be trained to take action, and to confront a substance abuser in a manner consistent with generally accepted training procedures.
   8. The Contractor and each Subcontractor shall furnish to the Owner a copy of its Substance Abuse Program for review and acceptance, prior to commencement of the Work on the Owner's site of construction.
   9. The costs of implementing the respective Substance Abuse Programs shall be borne by each respective Contractor or Subcontractor.
   10. Suppliers, vendors, and visitors shall sign an acknowledgement indicating their abstinence from substance abuse, and their continued avoidance of violations of this paragraph 3.10 at the Owner's site of construction.
      a. The acknowledgement form is in Section - 006000.
   11. In the event that an incident/accident occurs and causes the Owner, Contractor, or Subcontractor to believe that substance abuse testing should occur, suppliers, vendors, and visitors agree to submit to a substance abuse screen pursuant to the terms of this Substance Abuse Testing paragraph.

a. Refusal to submit to substance abuse testing when requested will be grounds for the Owner, Contractor, or Subcontractor to have the supplier, vendor, or visitor permanently barred from the site of construction.

C. Definitions:
1. Positive Tests: Test results indicating the presence of legal or illegal substances at or above the Confirming Limits as set forth in this Substance Abuse Testing paragraph sub-paragraph E.1 below.
2. Negative Tests: Test results indicating that legal or illegal substances are at levels below the Confirming Limits as set forth in this Substance Abuse Testing paragraph sub-paragraph E.1 below.
3. Pre-Engagement Testing: Testing for all substances other than alcohol as set forth in this Substance Abuse Testing paragraph sub-paragraph E.1 below conducted by the Contractor or Subcontractors for their employees or prospective employees within 120 days prior to their appearance on the Owner's site of Construction.
   a. This requirement will be waived if the employee is an active member of an Owner approved pool.
4. Mandatory Follow-up Testing: Testing for all substances other than alcohol set forth in this Substance Abuse Testing paragraph sub-paragraph E.1 below, conducted by the respective Contractor or Subcontractor for their employees at a rate to insure that 100 percent of all workers are tested within a 2 year period.
   a. Employees tested under the Random Testing requirements shall have the 2 year period begin with the Random Testing date.
5. Random Testing: Testing for all substances set forth in this Substance Abuse Testing paragraph sub-paragraph E.1 below, conducted by the respective Contractor or Subcontractors for their employees at random times and with a random selection rate of at least 50 percent of Contractors' or Subcontractors' employees annually.
   a. The frequency of Random Testing for a Contractor or Subcontractors' job of less than 1 year will be adjusted proportionately to the duration of the job, but in any event at least one employee per month shall be tested.
   b. Employees selected for random testing shall report to the drug testing laboratory or collection site and provide a specimen the same day that they are notified that they have been selected.
6. For Cause Testing: Testing for all substances set forth in this Substance Abuse Testing paragraph sub-paragraph E.1 below, conducted by the Contractor or Subcontractors for their employees whose behavior on the Owner's site of construction causes either the Owner's or the respective Contractor's or Subcontractors' supervisory personnel to reasonably conclude that such behavior may result from substance abuse.
7. Post-Accident/Incident Testing: Testing for all substances set forth in this Substance Abuse Testing paragraph sub-paragraph E.1 below, conducted by the Contractor or Subcontractors for their employees involved in any accident involving off-site medical treatment or any property damage.
   a. In addition, first aid cases, or “near misses” in which injury or property damage is narrowly avoided may require testing as determined by the Owner, Contractor or Subcontractor.

D. Testing Requirements:
1. The Contractor or Subcontractor shall perform pre-engagement, mandatory follow-up, random, for cause, and post-accident/incident testing as follows:
   a. Drug Testing:
      1) A screening test (“quickie test”) may be performed on-site or at an approved testing facility, using a Food and Drug Administration (FDA) approved device for instant testing.
         (a) Persons with negative tests will be allowed to start work immediately.

(b) Persons testing non-negative will not be allowed to begin work pending confirmation via the standard test.
(c) If a screening test is used, specimens shall be collected and submitted for testing per this Substance Abuse Testing paragraph, sub-paragraph D.1.a.2) below.
(d) Upon approval, a device from the approved listing provided by the Department of Transportation (DOT) may also be used.

2) Standard drug testing must be conducted by a SAMHSA (Substance Abuse Mental Health Services Administration) certified laboratory with test results interpreted by a licensed medical review officer (MRO).

b. Alcohol Testing:
1) The initial screen tests for alcohol shall be performed by using either a saliva test or a breathalyzer test comparable to the type used by law enforcement officials.
2) Alcohol confirmatory tests shall be performed by using either a blood alcohol test or a breathalyzer test comparable to the type used by law enforcement officials.

2. Evidence of Testing:
a. Evidence of the negative test results of individual employees (the identity of employees testing positive shall be kept confidential) shall be furnished to the Owner, prior to commencement of work by the employer or individual employee and promptly after performance of any subsequent testing required by this this Substance Abuse Testing paragraph, in the form of:
1) Electronic databases, all negative test results shall be included in an electronic database that will be accessible to employers and Owners. The database will include the employee's name, craft, identification number, and the date of the test.
2) A certificate not older than 120 calendar days prior to the Notification To Proceed for pre-employment testing, signed by the testing laboratory, setting forth the nature and results of tests performed, including the employee's name, identification number, craft, and the date of the test.
3) An identification card, signed by the respective Contractor or Subcontractor and issued to the individual employee, setting forth employee's name, and the date, nature and results of testing as reported on a certificate issued by the testing laboratory, the name of which shall also appear on the identification card; provided the affected employee authorized the issuance of such identification card.
4) Documentation not older than 120 calendar days that the Contractor or Subcontractor is enrolled in an approved program identified in this Substance Abuse Testing paragraph, sub-paragraph B.2.
5) Documentation not older than 120 calendar days of Contractor or Subcontractor company program that specifically identifies compliance with the requirements of this Substance Abuse Testing paragraph and encompasses 100 percent mandatory participation by Contractor or Subcontractor employees.

E. Threshold Limits:
1. Under the five-panel test, the minimum substance abuse testing requirements for the following substances are:

SUBSTANCE	THRESHOLD LIMIT	GC/MS CONFIRMING LIMIT
Alcohol	0.04%	0.04%
Amphetamines	1,000 ng/ml	500 ng/ml
Cocaine Metabolites	300 ng/ml	150 ng/ml
Marijuana Metabolites	50 ng/ml	15 ng/ml

Opiate Metabolites	2,000 ng/ml	300 ng/ml
Phencyclidine	25 ng/ml	25 ng/ml

2. The Owner will accept, although not required, ten-panel tests in lieu of five-panel tests. Under the ten-panel test, the minimum substance abuse testing requirements for the following substances are:

SUBSTANCE	THRESHOLD LIMIT	GC/MS CONFIRMING LIMIT
Alcohol	0.04%	0.04%
Amphetamines	1,000 ng/ml	500 ng/ml
Cocaine Matabolites	300 ng/ml	150 ng/ml
Marijuana Metabolites	50 ng/ml	15 ng/ml
Opiate Metabolites	2,000 ng/ml	300 ng/ml
Phencyclidine	25 ng/ml	25 ng/ml
Barbiturates	300 ng/ml	200 ng/ml
Benzodiazepines	300 ng/ml	200 ng/ml
Methadone	300 ng/ml	200 ng/ml
Methaqualone	300 ng/ml	200 ng/ml
Propoxyphene	300 ng/ml	200 ng/ml

3. Additionally, minimum-testing requirements for “Drugs of Choice” may be established on an individual job site basis. “Drugs of Choice” are defined as substances, in addition to the basic list set forth above, that may be found to be in significant use. If implemented, the Owner will pay for the additional testing.

F. Compliance Procedure:
1. The Owner reserves the right to audit any Substance Abuse Program to verify compliance results within twenty-four (24) hours of the Owner's notification of intent to audit, and the Owner shall have free right of access to all relevant records of the Contractor and its Subcontractors and suppliers for this purpose, provided such record disclosures are within the scope of the Department of Health and Human Services (DHHS) guidelines pertaining to confidentiality of employee records.
2. The Contractors' or Subcontractors' employees who receive a positive test result shall immediately leave the Owner's site of construction.
3. The Contractors' or Subcontractors' employees who receive a confirmatory positive test result shall be prohibited from returning to any of the Owner's sites of construction until such time that said employee has successfully completed an assessment/substance abuse treatment program as submitted by the employer that is acceptable to the Owner, but no sooner than 60 days, tests negative, and if said employee agrees to submit to substance abuse testing, without prior notice, at least 1 time per quarter (with dated certificates), for at least 3 years from the date of return or the duration of the Contract, whichever is less.

G. Cooperation and Review:
1. The Contractor's Substance Abuse Program (and the Substance Abuse Programs of its Subcontractors) shall be furnished to the Owner for review prior to starting the Work on site. The Owner reserves the right to review and have the Contractor's or Subcontractors' Substance Abuse Program amended prior to acceptance.
2. The Contractor or Subcontractors shall provide the Owner with a monthly summary report of Program compliance.
3. The requirements of this program related to post accident/incident testing after an injury or accident and for cause testing may be met through implementation of the Contractor's program. However, the Owner reserves the right in any circumstance to require that Contractor or Subcontractor employees be tested for cause or after an injury or accident.

H. Submittals:
   1. Submit to Owner as a single Submittal.
   2. Submittal will be stored in the Owner's electronic document management system in the Contractor's Contracts Page in the Contract Submittals table for this Project.
   3. Substance abuse company policies for Contractor and all Subcontractors as one submittal package.
   4. Substance abuse evidence of testing as required by this Substance Abuse Testing paragraph sub-paragraph D.2 for Contractor and all Subcontractors as one submittal package.
   5. Submit no later than 28 days from Notice to Proceed date but prior to beginning the Work on site.
   6. For Contractor and Subcontractor employees that are added to workforce after initial submittal and are not in an approved program identified in this Substance Abuse Testing paragraph, sub-paragraph B.2 or an approved Contractor or Subcontractor program, submit evidence of testing as an electronic document attached to an e-mail prior to employee beginning the Work on site.

3.17 CONTRACTUAL SUBMITTAL SUMMARY

A. Section 005200 submittals:
   1. Agreement Between Owner and Contractor
      a. Submit 2 signed originals.
      b. Submit no later than 7 days after receipt of Agreement from Owner.

B. Section 007200 submittals:
   1. Performance and Payment Bonds
      a. Submit 1 signed original.
      b. Submit within 14 days of Notice To Proceed in the amount requested by the Owner.
      c. Submit within 14 days of the anniversary date of the Agreement in the amount requested by the Owner.
   2. Certificates of Insurance
      a. Submit 1 copy.
      b. Submit no later than 7 days after receipt of Agreement from Owner.
      c. Submit no later than 7 days after any change in coverage.
   3. Asbestos Notification Acknowledgement Forms
      a. Submit 1 copy.
      b. Submit form signed by all workers that will be working on the Project prior to beginning the Work.
      c. Submit updated form with signatures appended to original signed form whenever additional workers are to be added to the workforce on the Project.

C. Section 012000 submittals:
   1. Applications for Payment
      a. Submit 2 copies of partial or final Applications for Payment for each Work Order.
      b. Signed by a corporate officer.
      c. Final Application for Payment is due no later than 30 days after the Work Order is completed.
   2. Certified Payrolls
      a. Submit 1 copy.
      b. Submit with each partial or final Application for Payment for each Work Order.
      c. Submit Contractor and Subcontractors certified payrolls on forms accepted by the Missouri Department of Labor for employees working on the Work Order for which the Application for Payment is made.
   3. Prevailing Wage Compliance Affidavit
      a. Submit 1 copy.

b. Submit with final Application for Payment for each Work Order.

4. Partial Lien Waivers
   a. Submit 1 copy.
   b. Submit with each partial Application for Payment for each Work Order beginning with the second partial Application for Payment.
   c. Partial lien waivers are required from the Contractor and each Subcontractor.
5. Final Lien Waivers
   a. Submit 1 copy.
   b. Submit with final Application for Payment for each Work Order.
   c. Final lien waivers are required from the Contractor and each Subcontractor.

D. Section 013000 submittals:
1. Preconstruction, Site Mobilization, and Progress Meeting Minutes
   a. Submit 1 copy.
   b. Submit no later than 2 days after meeting.
2. Permits
   a. Submit 1 copy.
   b. Submit no later than 7 days after receipt of the permit from the authority having jurisdiction.
3. Product Data, Shop Drawings, Samples, Certificates, Manufacturer's Instructions, Manufacturer's Fied Reports, and Erection Drawings
   a. Submit 1 electronic copy or 2 copies plus quantity required to be returned to Contractor.
   b. Submit when required in individual specification sections or where indicated on drawings and at appropriate times to meet construction schedule.
4. Contractor and Subcontractor Substance Abuse Policies
   a. Submit 1 copy.
   b. Submit no later than 28 days from Notice to Proceed date but prior to beginning the Work on site for Contractor and each Subcontractor.
5. Contractor and Subcontractor Substance Abuse Evidence of Testing
   a. Submit 1 copy.
   b. Submit no later than 28 days from Notice to Proceed date but prior to beginning the Work on site for Contractor and each Subcontractor.

E. Section 014100 submittals:
1. Immigration Documentation Certification
   a. Submit 1 copy.
   b. Submit prior to beginning any of the Work.
2. OSHA Ten Hour Construction Safety Training Log
   a. Submit 1 copy.
   b. Submit form completed for all workers that will be working on the Project prior to beginning the Work.
   c. Submit updated form with new workers appended to original form whenever additional workers are to be added to the workforce on the Project.
3. Refrigerant Management Owner's Standard Contractor Input Form
   a. Submit 1 copy.
   b. Submit no later than no later than 28 days from Notice to Proceed date but prior to beginning the Work on site.
4. Refrigerant Management Owner's Standard Equipment Installation/Removal Input Form
   a. Submit 1 copy.
   b. Use the same form for equipment installation or for equipment removal and complete as appropriate.
   c. Submit no later than 7 days after equipment installation or equipment removal.

5. Refrigerant Management Owner's Standard Service Order Form
    a. Submit 1 copy.
    b. Submit no later than 7 days after removing, addiing, or accidental venting of refrigerant.

F. Section 016000 submittals:
1. Product Substitution Request
    a. Submit 1 copy.
    b. Submit when applicable.
2. Value Engineering Proposal
    a. Submit 1 copy.
    b. Submit when applicable.

G. Section 017419 submittals:
1. Waste Disposal Reports
    a. Submit 1 copy.
    b. Submit with final Application for Payment.

H. Section 017800 submittals:
1. Record Drawings
    a. Submit 2 copies.
    b. Submit with final Application for Payment.
2. Operations and Maintenance Manuals
    a. Submit 2 copies.
    b. Submit with final Application for Payment.
3. Fire Alarm System Record Of Completion Form
    a. Submit 2 copies.
    b. Submit with final Application for Payment

END OF SECTION 013000

SECTION 013200
CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 – GENERAL

1.01 SECTION INCLUDES

A. Preliminary Schedule.

B. Construction progress schedule, with network analysis diagrams and reports.

C. Construction phasing plan.

1.02 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.03 SUMMARY

A. This Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
   1. Preliminary Construction Schedule.
   2. Construction Manager's Construction Schedule.

B. Related Sections include the following:
   1. Division 1 Section "Payment Procedures" for submitting the Schedule of Values.
   2. Division 1 Section "Project Management and Coordination" for submitting and distributing meeting and conference minutes.
   3. Division 1 Section "Submittal Procedures" for submitting schedules and reports.
   4. Division 1 Section "Quality Requirements" for submitting a schedule of tests and inspections.

1.04 DEFINITIONS

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

B. CPM: Critical path method, which is a method of planning and scheduling a construction project where activities are arranged based on activity relationships. Network calculations determine when activities can be performed and the critical path of Project.

C. Critical Path: The longest connected chain of interdependent activities through the network schedule that establishes the minimum overall Project duration and contains no float.

D. Event: The starting or ending point of an activity.

E. Float: The measure of leeway in starting and completing an activity.
   1. Float time is not for the exclusive use or benefit of either Owner or Construction Manager, but is a jointly owned, expiring Project resource available to both parties as needed to meet schedule milestones and Contract completion date.
   2. Free float is the amount of time an activity can be delayed without adversely affecting the early start of the successor activity.
   3. Total float is the measure of leeway in starting or completing an activity without adversely affecting the planned Project completion date.

F. Fragnet: A partial or fragmentary network that breaks down activities into smaller activities for greater detail.

G. Major Area: A story of construction, a separate building, or a similar significant construction element.

H. Milestone: A key or critical point in time for reference or measurement.

I. Network Diagram: A graphic diagram of a network schedule, showing activities and activity relationships.

1.05 COORDINATION

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

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

PART 2 - PRODUCTS

2.01 CONSTRUCTION MANAGER CONSTRUCTION SCHEDULE, GENERAL

A. Procedures: Comply with procedures contained in AGC's "Construction Planning & Scheduling."

B. Time Frame: Extend schedule from date established for commencement of the Work to date of Substantial Completion.
   1. Activities: Treat each separate area as a separate numbered activity for each principal element of the Work.

C. Constraints: Include constraints and work restrictions indicated in the Contract Documents and as follows in schedule, and show how the sequence of the Work is affected.
   1. Phasing: Arrange list of activities on schedule by phase.

D. Milestones: Include milestones indicated in the Contract Documents in schedule, including, but not limited to, the Notice to Proceed, Substantial Completion, and Final Completion.

E. Contract Modifications: For each proposed contract modification and concurrent with its submission, prepare a time-impact analysis using fragnets to demonstrate the effect of the proposed change on the overall project schedule.

2.02 PRELIMINARY CONSTRUCTION SCHEDULE

A. Bar-Chart Schedule: Submit preliminary horizontal bar-chart-type construction schedule within seven days of date established for commencement of the Work.

B. Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line. Outline significant construction activities for first 60 days of construction. Include skeleton diagram for the remainder of the Work and a cash requirement prediction based on indicated activities.

2.03 CONTRACTOR'S CONSTRUCTION SCHEDULE (GANTT CHART)

A. Preparation: Indicate each significant construction activity separately. Identify first workday of each week with a continuous vertical line.

PART 3 – EXECUTION

3.01 CONSTRUCTION MANAGER'S CONSTRUCTION SCHEDULE

A. Construction Manager's Construction Schedule Updating: At monthly intervals, update schedule to reflect actual construction progress and activities.

1. Revise schedule immediately after each meeting or other activity where revisions have been recognized or made. Issue updated schedule concurrently with the report of each such meeting.
2. Include a report with updated schedule that indicates every change, including, but not limited to, changes in logic, durations, actual starts and finishes, and activity durations.
3. As the Work progresses, indicate Actual Completion percentage for each activity.

B. Distribution: Distribute copies of approved schedule to Architect, Owner, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.
1. Post copies in Project meeting rooms and temporary field offices.
2. When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

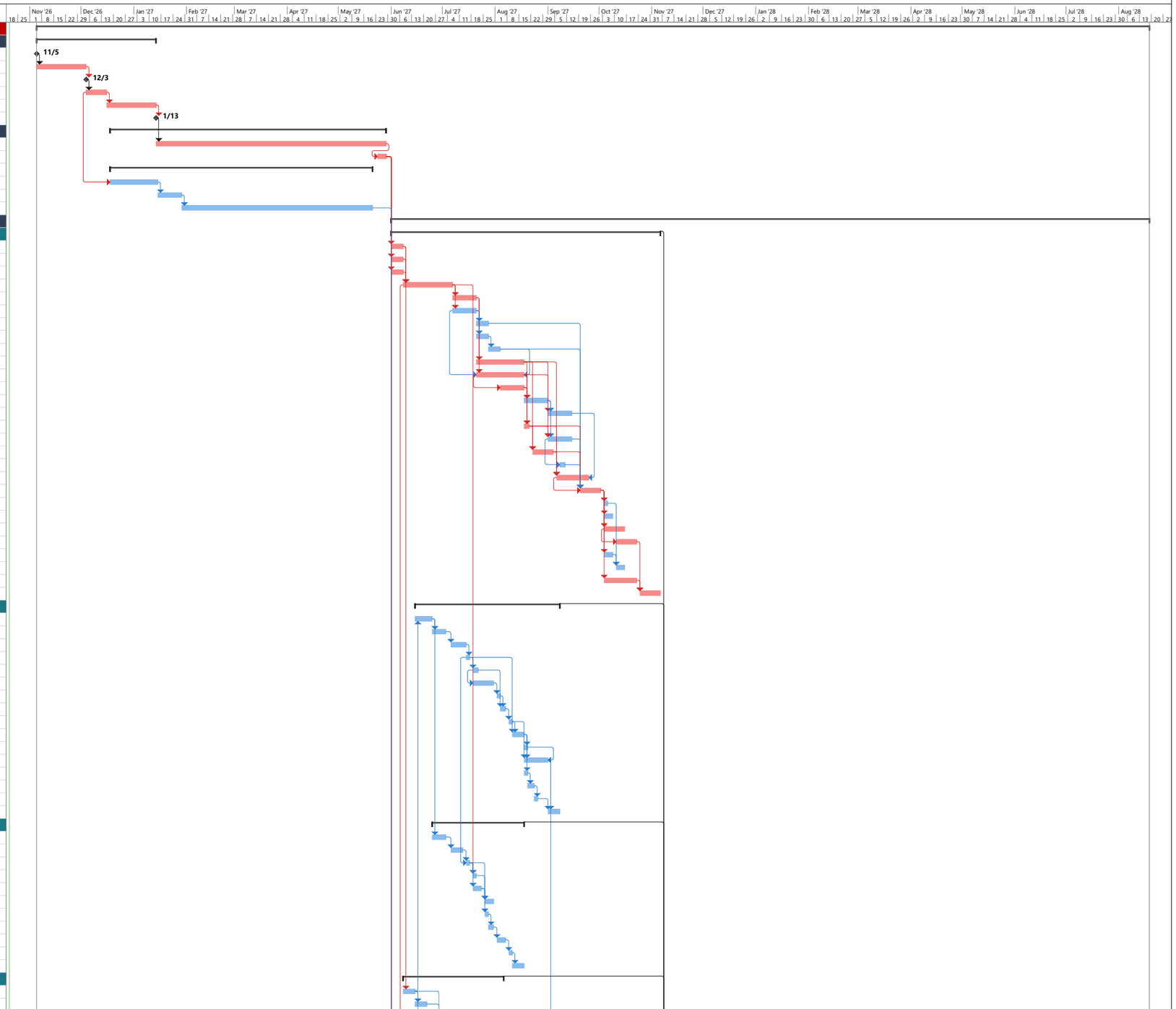
END OF SECTION 013200

Poettker Construction

PARKWAY SCHOOL DISTRICT
WEST HIGH SCHOOL
BIDDING SCHEDULE

PARKWAY SCHOOLS

ID	Task Name	Duration	Start	Finish	Notes
1	**WEST HIGH SCHOOL**	**463 days**	**Thu 11/5/26**	**Fri 8/18/28**	
2	**BIDDING**	**50 days**	**Thu 11/5/26**	**Wed 1/13/27**	
3	Issue for Bid	0 days	Thu 11/5/26	Thu 11/5/26	
4	Project Bidding	21 days	Thu 11/5/26	Thu 12/3/26	
5	Bid Open	0 days	Thu 12/3/26	Thu 12/3/26	
6	Bid Interviews & GMP	8 days	Fri 12/4/26	Tue 12/15/26	
7	Board Review	21 days	Wed 12/16/26	Wed 1/13/27	
8	Award	0 days	Wed 1/13/27	Wed 1/13/27	
9	**PROCUREMENT**	**116 days**	**Fri 12/18/26**	**Fri 5/28/27**	
10	Contracting & Adminstration	97 days	Thu 1/14/27	Fri 5/28/27	
11	Mobilization	5 days	Mon 5/24/27	Fri 5/28/27	
12	**140000-ELEVATOR**	**110 days**	**Fri 12/18/26**	**Thu 5/20/27**	
13	ELEV_Shop Drawings	20 days	Fri 12/18/26	Thu 1/14/27	
14	ELEV_Approval	10 days	Fri 1/15/27	Thu 1/28/27	
15	ELEV_Fab & Deliver Material	80 days	Fri 1/29/27	Thu 5/20/27	
16	**BUILDING RENOVATION**	**316 days**	**Tue 6/1/27**	**Fri 8/18/28**	
17	**PHASE 1 - NORTH LOCKERS**	**113 days**	**Tue 6/1/27**	**Fri 11/5/27**	
18	1A_ Demo Lockers/Bases	5 days	Tue 6/1/27	Mon 6/7/27	
19	1A_MEP Disconnect / Remove Non Dist. Fixtures	5 days	Tue 6/1/27	Mon 6/7/27	
20	1A_Containment	5 days	Tue 6/1/27	Mon 6/7/27	RMs: 1608-1617, C1V, 1629 / Approx. 4,800 SF
21	1A_Abatement / Demo Partitions	20 days	Tue 6/8/27	Tue 7/6/27	
22	1A_MEP Demolition	10 days	Wed 7/7/27	Tue 7/20/27	
23	1A_Saw Cut & Remove Slab	10 days	Wed 7/7/27	Tue 7/20/27	
24	1A_Grind Existing Floor Paint	5 days	Wed 7/21/27	Tue 7/27/27	
25	1A_ Underslab Plumbing	5 days	Wed 7/21/27	Tue 7/27/27	
26	1A_Pour Back Slab & Cure	5 days	Wed 7/28/27	Tue 8/3/27	
27	1A_MEP Rough-In	20 days	Wed 7/21/27	Tue 8/17/27	
28	1A_CMU Partitions	20 days	Wed 7/21/27	Tue 8/17/27	
29	1A_Drywall Infill @ CMU Partition	10 days	Wed 8/4/27	Tue 8/17/27	
30	1A_Head of Wall Bracing	10 days	Wed 8/18/27	Tue 8/31/27	
31	1A_Gypsum Ceiling & Paint	10 days	Wed 9/1/27	Tue 9/14/27	
32	1A_Exposed Ceiling Painting	3 days	Wed 8/18/27	Fri 8/20/27	
33	1A_Wall Paint	10 days	Wed 9/1/27	Tue 9/14/27	
34	1A_Acoustical Treatments	10 days	Mon 8/23/27	Fri 9/3/27	
35	1A_Acoustical Ceilings	3 days	Wed 9/8/27	Fri 9/10/27	
36	1A_Overhead Trim-Out	15 days	Mon 9/6/27	Fri 9/24/27	
37	1A_Epoxy Flooring	10 days	Mon 9/20/27	Fri 10/1/27	
38	1A_Interior Storefront Window	2 days	Mon 10/4/27	Tue 10/5/27	
39	1A_Casework	5 days	Mon 10/4/27	Fri 10/8/27	
40	1A_Lockers	10 days	Mon 10/4/27	Fri 10/15/27	
41	1A_Doors & Hardware	10 days	Mon 10/11/27	Fri 10/22/27	
42	1A_Plumbing Fixtures	5 days	Mon 10/4/27	Fri 10/8/27	
43	1A_DIV 10 Specialties	5 days	Mon 10/11/27	Fri 10/15/27	
44	1A_Final Trim-Out & Testing	15 days	Mon 10/4/27	Fri 10/22/27	
45	1A_Punch List & Corrections	10 days	Mon 10/25/27	Fri 11/5/27	
46	**PHASE 1 - TRAINING**	**60 days**	**Tue 6/15/27**	**Tue 9/7/27**	
47	1B_Selective Demo (No Abatement)	8 days	Tue 6/15/27	Thu 6/24/27	RMs: 1633-1635
48	1B_Saw Cut & Remove Slab	6 days	Fri 6/25/27	Fri 7/2/27	
49	1B_Underslab Plumbing	7 days	Tue 7/6/27	Wed 7/14/27	
50	1B_Pour Back Slab	2 days	Thu 7/15/27	Fri 7/16/27	
51	1B_New Walls	3 days	Mon 7/19/27	Wed 7/21/27	
52	1B_MEP Rough-In	10 days	Mon 7/19/27	Fri 7/30/27	
53	1B_Gypsum Ceiling	2 days	Mon 8/2/27	Tue 8/3/27	
54	1B_Wall Paint	3 days	Wed 8/4/27	Fri 8/6/27	
55	1B_ACT Ceiling	2 days	Mon 8/9/27	Tue 8/10/27	
56	1B_Epoxy Floor	5 days	Wed 8/11/27	Tue 8/17/27	
57	1B_Casework	2 days	Wed 8/18/27	Thu 8/19/27	
58	1B_MEP Trim-Out	10 days	Wed 8/18/27	Tue 8/31/27	
59	1B_Plumbing Fixtures	2 days	Wed 8/18/27	Thu 8/19/27	
60	1B_DIV 10 Specialties	2 days	Fri 8/20/27	Mon 8/23/27	
61	1B_Doors & Hardware	2 days	Tue 8/24/27	Wed 8/25/27	
62	1B_Punch List & Corrections	5 days	Wed 9/1/27	Tue 9/7/27	
63	**PHASE 1 - CARDIO**	**37 days**	**Fri 6/25/27**	**Tue 8/17/27**	
64	1C_Selective Demo / Electric Trench	6 days	Fri 6/25/27	Fri 7/2/27	Outside Containment
65	1C_Undeground Electric	5 days	Tue 7/6/27	Mon 7/12/27	
66	1C_Pour Back Slab	2 days	Thu 7/15/27	Fri 7/16/27	
67	1C_Demo Partitions	2 days	Mon 7/19/27	Tue 7/20/27	
68	1C_MEP Rough-In	5 days	Mon 7/19/27	Fri 7/23/27	
69	1C_New Partitions	5 days	Mon 7/26/27	Fri 7/30/27	
70	1C_Paint Ceiling	2 days	Mon 7/26/27	Tue 7/27/27	
71	1C_Paint Walls	3 days	Wed 7/28/27	Fri 7/30/27	
72	1C_MEP Trim-Out	5 days	Mon 8/2/27	Fri 8/6/27	
73	1C_Flooring & Base	2 days	Mon 8/9/27	Tue 8/10/27	
74	1C_Punch List & Corrections	5 days	Wed 8/11/27	Tue 8/17/27	
75	**PHASE 1 - CORRIDOR**	**42 days**	**Tue 6/8/27**	**Thu 8/5/27**	
76	1D_Demo Ceilings	5 days	Tue 6/8/27	Mon 6/14/27	
77	1D_MEP Demo	5 days	Tue 6/15/27	Mon 6/21/27	



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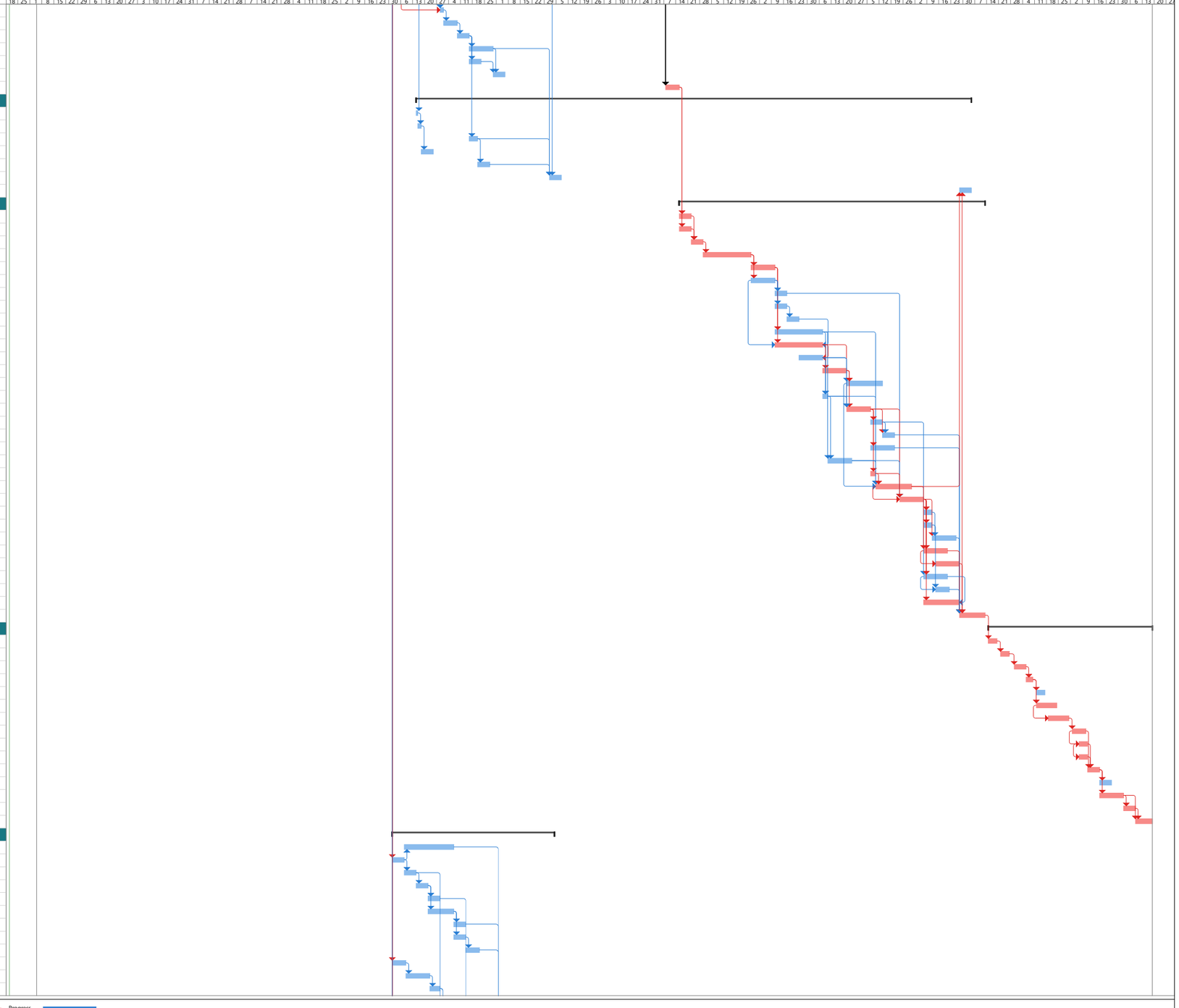
Task | Milestone | Summary | Critical | Critical Split | Progress

Poettker Construction

PARKWAY SCHOOL DISTRICT
WEST HIGH SCHOOL
BIDDING SCHEDULE

PARKWAY SCHOOLS

ID	Task Name	Duration	Start	Finish	Notes
78	1D_Containment	2 days	Tue 6/29/27	Wed 6/30/27	
79	1D_Remove Floor Tile & Mastic	5 days	Thu 7/1/27	Thu 7/8/27	
80	1D_Clearance & Sampling	5 days	Fri 7/9/27	Thu 7/15/27	
81	1D_OH Rough_In	10 days	Fri 7/16/27	Thu 7/29/27	
82	1D_Wall Paint	5 days	Fri 7/16/27	Thu 7/22/27	
83	1D_ACT Ceiling	5 days	Fri 7/30/27	Thu 8/5/27	
84	Move In / Occupancy	6 days	Mon 11/8/27	Mon 11/15/27	
85	**PHASE 1 MECHANICAL UNITS**	**232 days**	**Tue 6/15/27**	**Thu 5/4/28**	
86	Demo Mech 1600 Wall	1 day	Tue 6/15/27	Tue 6/15/27	
87	Demo AHU 006	2 days	Wed 6/16/27	Thu 6/17/27	
88	New AHU 006	3 days	Fri 7/16/27	Tue 7/20/27	
89	Demo AHU 007	5 days	Fri 6/18/27	Thu 6/24/27	
90	New AHU 007	5 days	Wed 7/21/27	Tue 7/27/27	
91	Phase 1 - Final Connections & Start-Up	5 days	Wed 9/1/27	Tue 9/7/27	
92	Phase 2 - Final Connections & Start-Up	5 days	Fri 4/28/28	Thu 5/4/28	
93	**PHASE 2 - SOUTH LOCKER ROOMS**	**129 days**	**Tue 11/16/27**	**Fri 5/12/28**	
94	2A_ Demo Lockers/Bases	5 days	Tue 11/16/27	Mon 11/22/27	
95	2A_MEP Disconnect / Remove Non Dist. Fixtures	5 days	Tue 11/16/27	Mon 11/22/27	
96	2A_Containment	5 days	Tue 11/23/27	Mon 11/29/27	
97	2A_Abatement / Demo Partitions	20 days	Tue 11/30/27	Mon 12/27/27	
98	2A_MEP Demolition	10 days	Tue 12/28/27	Mon 1/10/28	
99	2A_Saw Cut & Remove Slab	10 days	Tue 12/28/27	Mon 1/10/28	
100	2A_Grind Existing Floor Paint	5 days	Tue 1/11/28	Mon 1/17/28	
101	2A_ Underslab Plumbing	5 days	Tue 1/11/28	Mon 1/17/28	
102	2A_Pour Back Slab & Cure	5 days	Tue 1/18/28	Mon 1/24/28	
103	2A_MEP Rough-In	20 days	Tue 1/11/28	Mon 2/7/28	
104	2A_CMU Partitions	20 days	Tue 1/11/28	Mon 2/7/28	
105	2A_Drywall Infill @ CMU Partition	10 days	Tue 1/25/28	Mon 2/7/28	
106	2A_Head of Wall Bracing	10 days	Tue 2/8/28	Mon 2/21/28	
107	2A_Gypsum Ceiling & Paint	15 days	Tue 2/22/28	Mon 3/13/28	
108	2A_Exposed Ceiling Painting	3 days	Tue 2/8/28	Thu 2/10/28	
109	2A_Wall Paint	10 days	Tue 2/22/28	Mon 3/6/28	
110	2A_Wall Tile	5 days	Tue 3/7/28	Mon 3/13/28	
111	2A_Custom Wall Graphics	5 days	Tue 3/14/28	Mon 3/20/28	
112	2A_Wire Mesh Partitions	10 days	Tue 3/7/28	Mon 3/20/28	
113	2A_Acoustical Treatments	10 days	Fri 2/11/28	Thu 2/24/28	
114	2A_Acoustical Ceilings	3 days	Tue 3/7/28	Thu 3/9/28	
115	2A_Overhead Trim-Out	15 days	Fri 3/10/28	Thu 3/30/28	
116	2A_Epoxy Flooring	10 days	Fri 3/24/28	Thu 4/6/28	
117	2A_Carpet Tile & Base	3 days	Fri 4/7/28	Tue 4/11/28	
118	2A_Interior Storefront Window	3 days	Fri 4/7/28	Tue 4/11/28	
119	2A_Casework	10 days	Wed 4/12/28	Tue 4/25/28	
120	2A_Lockers	10 days	Fri 4/7/28	Thu 4/20/28	
121	2A_Doors & Hardware	10 days	Fri 4/14/28	Thu 4/27/28	
122	2A_Plumbing Fixtures	10 days	Fri 4/7/28	Thu 4/20/28	
123	2A_DIV 10 Specialties	6 days	Fri 4/14/28	Fri 4/21/28	
124	2A_Final Trim-Out & Testing	15 days	Fri 4/7/28	Thu 4/27/28	
125	2A_Punch List & Corrections	11 days	Fri 4/28/28	Fri 5/12/28	
126	**PHASE 3 - POOL LOCKERS**	**68 days**	**Mon 5/15/28**	**Fri 8/18/28**	
127	3A_Selective Demolition	5 days	Mon 5/15/28	Fri 5/19/28	
128	3A_Slab Removal	5 days	Mon 5/22/28	Fri 5/26/28	
129	3A_Underslab Plumbing	5 days	Tue 5/30/28	Mon 6/5/28	
130	3A_Pour Back Slab & Cure	4 days	Tue 6/6/28	Fri 6/9/28	
131	3A_New Partitions	5 days	Mon 6/12/28	Fri 6/16/28	
132	3A_MEP Rough-In	10 days	Mon 6/12/28	Fri 6/23/28	
133	3A_Gypsum Ceilings	10 days	Mon 6/19/28	Fri 6/30/28	
134	3A_Painting	5 days	Mon 7/3/28	Mon 7/10/28	
135	3A_Wall Tile	3 days	Fri 7/7/28	Tue 7/11/28	
136	3A_Shower Surrounds	3 days	Fri 7/7/28	Tue 7/11/28	
137	3A_Epoxy Floor	5 days	Wed 7/12/28	Tue 7/18/28	
138	3A_Lockers	5 days	Wed 7/19/28	Tue 7/25/28	
139	3A_MEP Trim Out	10 days	Wed 7/19/28	Tue 8/1/28	
140	3A_Div 10 Specialties	5 days	Wed 8/2/28	Tue 8/8/28	
141	3A_Punch List & Corrections	8 days	Wed 8/9/28	Fri 8/18/28	
142	**POOL RENOVATION**	**68 days**	**Tue 6/1/27**	**Fri 9/3/27**	
143	Pool_Equipment Replacement (Allowance)	20 days	Tue 6/8/27	Tue 7/6/27	
144	Pool_Selective Demolition	5 days	Tue 6/1/27	Mon 6/7/27	
145	Pool_Demolish Pool Deck Tile	5 days	Tue 6/8/27	Mon 6/14/27	
146	Pool_Remove Stairs/Slab	5 days	Tue 6/15/27	Mon 6/21/27	
147	Pool_Replace Handrails	5 days	Tue 6/22/27	Mon 6/28/27	
148	Pool_New Footings	10 days	Tue 6/22/27	Tue 7/6/27	
149	Pool_Intermediate Steps	5 days	Wed 7/7/27	Tue 7/13/27	
150	Pool_CMU Walls	5 days	Wed 7/7/27	Tue 7/13/27	
151	Pool_Paint Walls	6 days	Wed 7/14/27	Wed 7/21/27	
152	Pool_Erect Scaffolding	6 days	Tue 6/1/27	Tue 6/8/27	
153	Pool_Overhead Work	10 days	Wed 6/9/27	Tue 6/22/27	
154	Pool_Dismantle Scaffolding	4 days	Wed 6/23/27	Mon 6/28/27	



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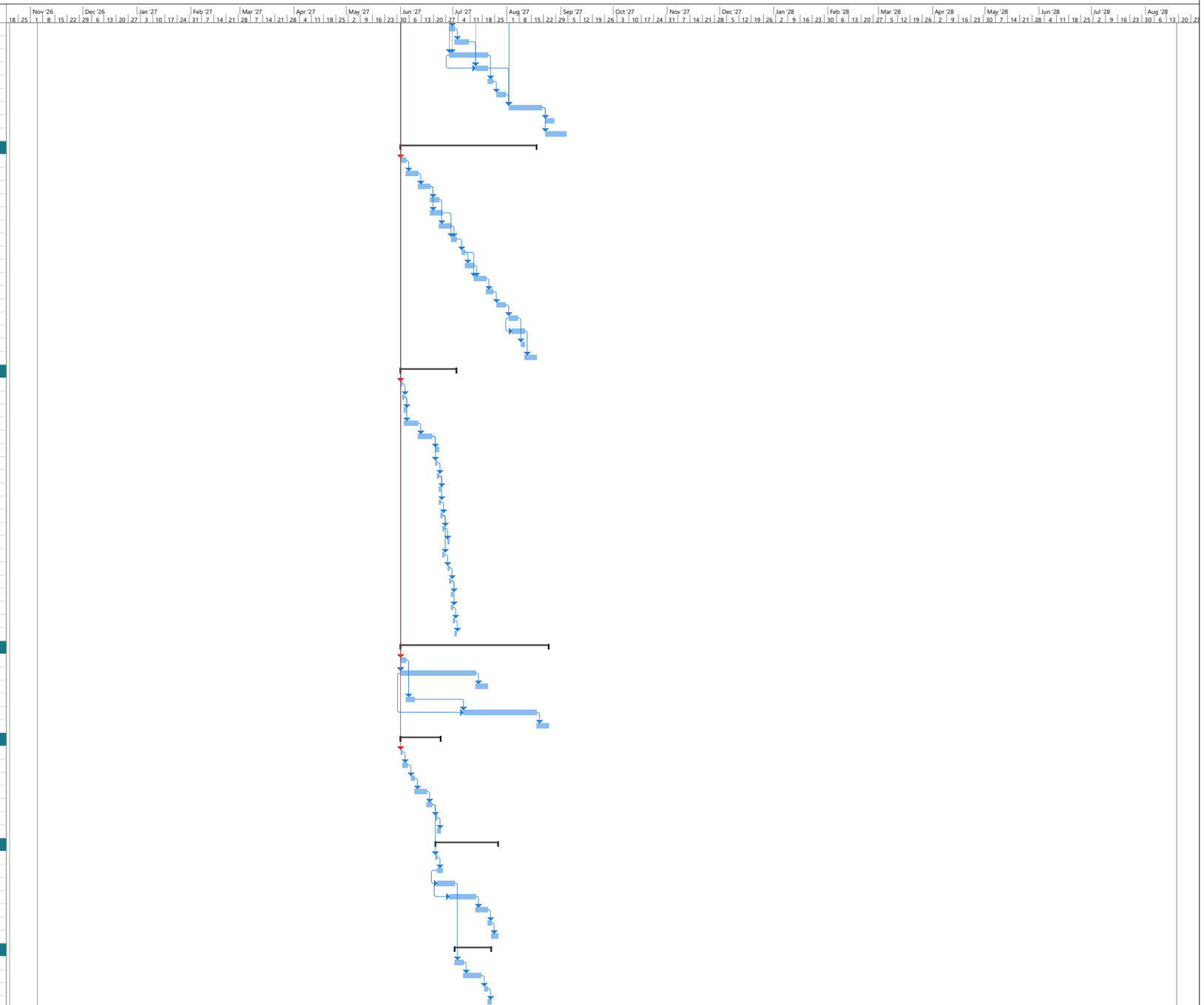
Task | Milestone | Summary | Critical | Critical Split | Progress

Poettker Construction

PARKWAY SCHOOL DISTRICT
WEST HIGH SCHOOL
BIDDING SCHEDULE

PARKWAY SCHOOLS

ID	Task Name	Duration	Start	Finish	Notes
155	Pool_Gyp Ceiling Paint	3 days	Tue 6/29/27	Thu 7/1/27	
156	Pool_Acoustical Panels	5 days	Fri 7/2/27	Fri 7/9/27	
157	Pool_Gutter Repair/Replacement	15 days	Tue 6/29/27	Tue 7/20/27	
158	Pool_Prep Slab	5 days	Wed 7/14/27	Tue 7/20/27	
159	Pool_Acid Wash Pool Basin	3 days	Wed 7/21/27	Fri 7/23/27	
160	Pool_Regrout Basin Tile	5 days	Mon 7/26/27	Fri 7/30/27	
161	Pool_Epoxy Floor	15 days	Mon 8/2/27	Fri 8/20/27	
162	Pool_Starting Blocks	5 days	Mon 8/23/27	Fri 8/27/27	
163	Pool_Spectator Seats	10 days	Mon 8/23/27	Fri 9/3/27	
164	**AREA C - RESTROOMS**	**55 days**	**Tue 6/1/27**	**Tue 8/17/27**	
165	C_Selective Demo (No Tile)	3 days	Tue 6/1/27	Thu 6/3/27	
166	C_LBP Tile Abatement	5 days	Fri 6/4/27	Thu 6/10/27	
167	C_Demo Partitions & Floor Tile	5 days	Fri 6/11/27	Thu 6/17/27	
168	C_Pipe Fitting Abatement	3 days	Fri 6/18/27	Tue 6/22/27	
169	C_Cut New Openings	5 days	Fri 6/18/27	Thu 6/24/27	
170	C_MEP Rough-In	5 days	Wed 6/23/27	Tue 6/29/27	
171	C_Masonry Partitions	3 days	Wed 6/30/27	Fri 7/2/27	
172	C_Drywall Partitions	2 days	Tue 7/6/27	Wed 7/7/27	
173	C_Gyp. Ceiling	3 days	Thu 7/8/27	Mon 7/12/27	
174	C_Painting	5 days	Tue 7/13/27	Mon 7/19/27	
175	C_Wall Tile	4 days	Tue 7/20/27	Fri 7/23/27	
176	C_Epoxy Floor	5 days	Mon 7/26/27	Fri 7/30/27	
177	C_MEP Trim-Out	5 days	Mon 8/2/27	Fri 8/6/27	
178	C_Div 10 Specialties	5 days	Wed 8/4/27	Tue 8/10/27	
179	C_Doors & Hardware	2 days	Mon 8/9/27	Tue 8/10/27	
180	C_Punch List & Corrections	5 days	Wed 8/11/27	Tue 8/17/27	
181	**WINDOW & DOOR REPLACEMENTS**	**24 days**	**Tue 6/1/27**	**Fri 7/2/27**	
182	C1O_Abatement Remove Door & Frame	1 day	Tue 6/1/27	Tue 6/1/27	
183	C1O_New Door & Frame	1 day	Wed 6/2/27	Wed 6/2/27	
184	C1O_Touch-Up Finish	1 day	Thu 6/3/27	Thu 6/3/27	
185	C1M_Abatement Remove Windows	6 days	Thu 6/3/27	Thu 6/10/27	
186	C1M_New Window Install	6 days	Fri 6/11/27	Fri 6/18/27	
187	C1M_Touch-Up Finishes	2 days	Mon 6/21/27	Tue 6/22/27	
188	C1N_Abatement Remove Window	1 day	Mon 6/21/27	Mon 6/21/27	
189	C1N_New Window	1 day	Tue 6/22/27	Tue 6/22/27	
190	C1N_Touch-Up Finishes	1 day	Wed 6/23/27	Wed 6/23/27	
191	1601_Abatement Remove Door / Frame / Louver	1 day	Wed 6/23/27	Wed 6/23/27	
192	1601_New Door & Frame	1 day	Thu 6/24/27	Thu 6/24/27	
193	1601_New Louver	1 day	Fri 6/25/27	Fri 6/25/27	
194	1601_Touch-Up Finishes	1 day	Mon 6/28/27	Mon 6/28/27	
195	1315_Abatement Remove Door / Frame / Stone Sill	1 day	Fri 6/25/27	Fri 6/25/27	
196	1315_New Storefront	1 day	Mon 6/28/27	Mon 6/28/27	
197	1315_New Door	1 day	Tue 6/29/27	Tue 6/29/27	
198	1315_Touch-Up Finishes	1 day	Wed 6/30/27	Wed 6/30/27	
199	EXD-500_Demo Door & Frame	1 day	Wed 6/30/27	Wed 6/30/27	
200	EXD-500_New Door & Frame	1 day	Thu 7/1/27	Thu 7/1/27	
201	EXD-500_Touch-Up Finishes	1 day	Fri 7/2/27	Fri 7/2/27	
202	**ELEVATORS**	**60 days**	**Tue 6/1/27**	**Tue 8/24/27**	
203	ELEV 1B_Selective Demo	3 days	Tue 6/1/27	Thu 6/3/27	
204	ELEV 1B_Elevator Modernization	30 days	Tue 6/1/27	Tue 7/13/27	
205	ELEV 1B_Touch-Up Finishes	5 days	Wed 7/14/27	Tue 7/20/27	
206	ELEV 1A_Selective Demo	3 days	Fri 6/4/27	Tue 6/8/27	
207	ELEV 1A_Elevator Modernization	30 days	Wed 7/7/27	Tue 8/17/27	
208	ELEV 1A_Touch-Up Finishes	5 days	Wed 8/18/27	Tue 8/24/27	
209	**EAST SITE WORK**	**17 days**	**Tue 6/1/27**	**Wed 6/23/27**	
210	East_Saw-Cut & Remove Asphalt	1 day	Tue 6/1/27	Tue 6/1/27	
211	East_Dismantle Retaining Wall	3 days	Wed 6/2/27	Fri 6/4/27	
212	East_Storm Sewer Modifcation	2 days	Mon 6/7/27	Tue 6/8/27	
213	East_Retaining Wall Install	5 days	Wed 6/9/27	Tue 6/15/27	
214	East_Backfill & Fine Grade	3 days	Wed 6/16/27	Fri 6/18/27	
215	East_Slope Stabilization	1 day	Mon 6/21/27	Mon 6/21/27	
216	East_Asphalt Patch	2 days	Tue 6/22/27	Wed 6/23/27	
217	**NORTH SITE WORK**	**25 days**	**Mon 6/21/27**	**Mon 7/26/27**	
218	North_Saw-Cut & Remove Asphalt	1 day	Mon 6/21/27	Mon 6/21/27	
219	North_Dismantle Retaining Wall	3 days	Tue 6/22/27	Thu 6/24/27	
220	North_Storm Sewer Modification	8 days	Tue 6/22/27	Thu 7/1/27	
221	North_Retaining Wall Installation	10 days	Tue 6/29/27	Tue 7/13/27	
222	North_Backfill & Fine Grade	5 days	Wed 7/14/27	Tue 7/20/27	
223	North_Slope Stabilization	2 days	Wed 7/21/27	Thu 7/22/27	
224	North_Asphalt Patch	2 days	Fri 7/23/27	Mon 7/26/27	
225	**SOUTH SITE WORK**	**14 days**	**Fri 7/2/27**	**Thu 7/22/27**	
226	South_French Drain	2 days	Fri 7/2/27	Tue 7/6/27	
227	South_Storm Sewer Modifications	8 days	Wed 7/7/27	Fri 7/16/27	
228	South_Backfill & Grading	2 days	Mon 7/19/27	Tue 7/20/27	
229	South_Slope Stabilization	2 days	Wed 7/21/27	Thu 7/22/27	



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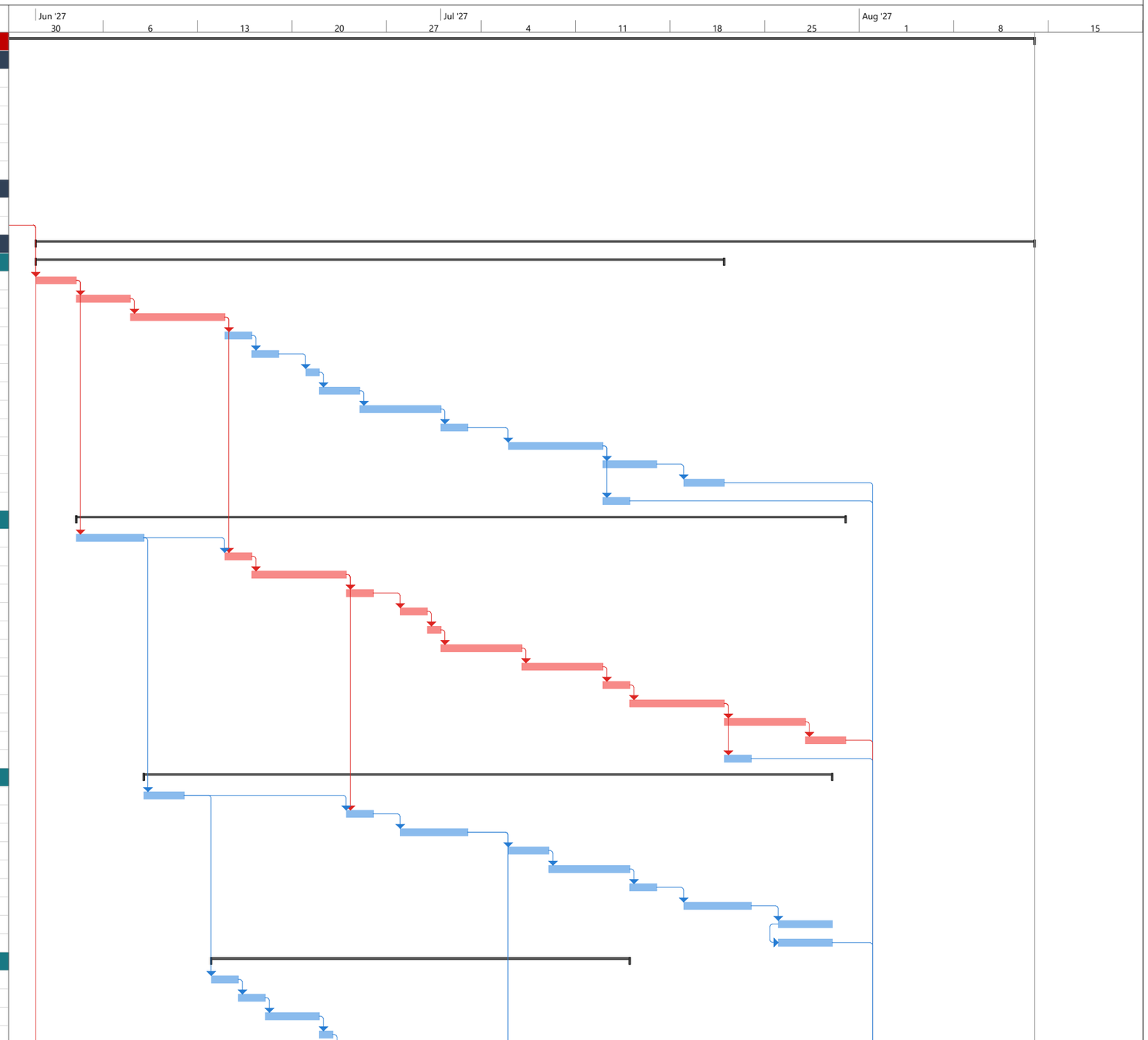
Task | Milestone | Summary | Critical | Critical Split | Progress

Poettker Construction

PARKWAY SCHOOL DISTRICT
ECC WEST BLDG. RENO & SITE IMPROVEMENTS
BIDDING SCHEDULE

PARKWAY SCHOOLS

ID	Task Name	Duration	Start	Finish	Notes
1	**ECC WEST BLDG. RENO & SITE IMPROVEMENTS**	**200 days**	**Thu 11/5/26**	**Fri 8/13/27**	
2	**BIDDING**	**50 days**	**Thu 11/5/26**	**Wed 1/13/27**	
3	Issue for Bid	0 days	Thu 11/5/26	Thu 11/5/26	
4	Project Bidding	21 days	Thu 11/5/26	Thu 12/3/26	
5	Bid Open	0 days	Thu 12/3/26	Thu 12/3/26	
6	Bid Interviews & GMP	8 days	Fri 12/4/26	Tue 12/15/26	
7	Board Review	21 days	Wed 12/16/26	Wed 1/13/27	
8	Award	0 days	Wed 1/13/27	Wed 1/13/27	
9	**PROCUREMENT**	**97 days**	**Thu 1/14/27**	**Fri 5/28/27**	
10	Contracting & Adminstration	97 days	Thu 1/14/27	Fri 5/28/27	
11	Mobilization	5 days	Mon 5/24/27	Fri 5/28/27	
12	**CONSTRUCTION**	**53 days**	**Tue 6/1/27**	**Fri 8/13/27**	
13	**RESTROOMS 2203/2204**	**36 days**	**Tue 6/1/27**	**Wed 7/21/27**	
14	22_Selective Demo	3 days	Tue 6/1/27	Thu 6/3/27	
15	22_Set Containment	2 days	Fri 6/4/27	Mon 6/7/27	
16	22_Abatement	5 days	Tue 6/8/27	Mon 6/14/27	Gyp Walls / Ceiling Demo
17	22_Saw-Cut & Demo Slab	2 days	Tue 6/15/27	Wed 6/16/27	
18	22_Underground Plumbing	2 days	Thu 6/17/27	Fri 6/18/27	
19	22_Pour Back Slab	1 day	Mon 6/21/27	Mon 6/21/27	
20	22_MEP Rough-In	3 days	Tue 6/22/27	Thu 6/24/27	
21	22_Metal Studs / Drywall / Ceiling	4 days	Fri 6/25/27	Wed 6/30/27	
22	22_Painting	2 days	Thu 7/1/27	Fri 7/2/27	
23	22_Wall & Floor Tile	5 days	Tue 7/6/27	Mon 7/12/27	
24	22_MEP Trim-Out	4 days	Tue 7/13/27	Fri 7/16/27	
25	22_Div 10 Specialties	3 days	Mon 7/19/27	Wed 7/21/27	
26	22_Doors & Hardware	2 days	Tue 7/13/27	Wed 7/14/27	
27	**RESROOMS 2903/2904**	**40 days**	**Fri 6/4/27**	**Fri 7/30/27**	
28	29_Selective Demo	3 days	Fri 6/4/27	Tue 6/8/27	
29	29_Set Containment	2 days	Tue 6/15/27	Wed 6/16/27	
30	29_Abatement	5 days	Thu 6/17/27	Wed 6/23/27	
31	29_Saw-Cut & Demo Slab	2 days	Thu 6/24/27	Fri 6/25/27	
32	29_Underground Plumbing	2 days	Mon 6/28/27	Tue 6/29/27	
33	29_Pour Back Slab	1 day	Wed 6/30/27	Wed 6/30/27	
34	29_MEP Rough-In	3 days	Thu 7/1/27	Tue 7/6/27	
35	29_Metal Studs / Drywall / Ceiling	4 days	Wed 7/7/27	Mon 7/12/27	
36	29_Painting	2 days	Tue 7/13/27	Wed 7/14/27	
37	29_Wall & Floor Tile	5 days	Thu 7/15/27	Wed 7/21/27	
38	29_MEP Trim-Out	4 days	Thu 7/22/27	Tue 7/27/27	
39	29_Div 10 Specialties	3 days	Wed 7/28/27	Fri 7/30/27	
40	29_Doors & Hardware	2 days	Thu 7/22/27	Fri 7/23/27	
41	**RESTROOMS 2500/2503**	**36 days**	**Wed 6/9/27**	**Thu 7/29/27**	
42	25_Selective Demo	3 days	Wed 6/9/27	Fri 6/11/27	
43	25_Set Containment	2 days	Thu 6/24/27	Fri 6/25/27	
44	25_Abatement	5 days	Mon 6/28/27	Fri 7/2/27	
45	25_MEP Rough-In	3 days	Tue 7/6/27	Thu 7/8/27	
46	25_Metal Studs / Drywall / Ceiling	4 days	Fri 7/9/27	Wed 7/14/27	
47	25_Painting	2 days	Thu 7/15/27	Fri 7/16/27	
48	25_Wall & Floor Tile	5 days	Mon 7/19/27	Fri 7/23/27	
49	25_MEP Trim-Out	4 days	Mon 7/26/27	Thu 7/29/27	
50	25_Div 10 Specialties	4 days	Mon 7/26/27	Thu 7/29/27	
51	**RESTROOMS 1202 / 1201 / 1102**	**22 days**	**Mon 6/14/27**	**Wed 7/14/27**	
52	12_Demo Fixtures / Specialties	2 days	Mon 6/14/27	Tue 6/15/27	
53	12_Demo Flooring	2 days	Wed 6/16/27	Thu 6/17/27	
54	12_Demo Ceiling	2 days	Fri 6/18/27	Mon 6/21/27	
55	12_Remove Epoxy Floor	1 day	Tue 6/22/27	Tue 6/22/27	1102



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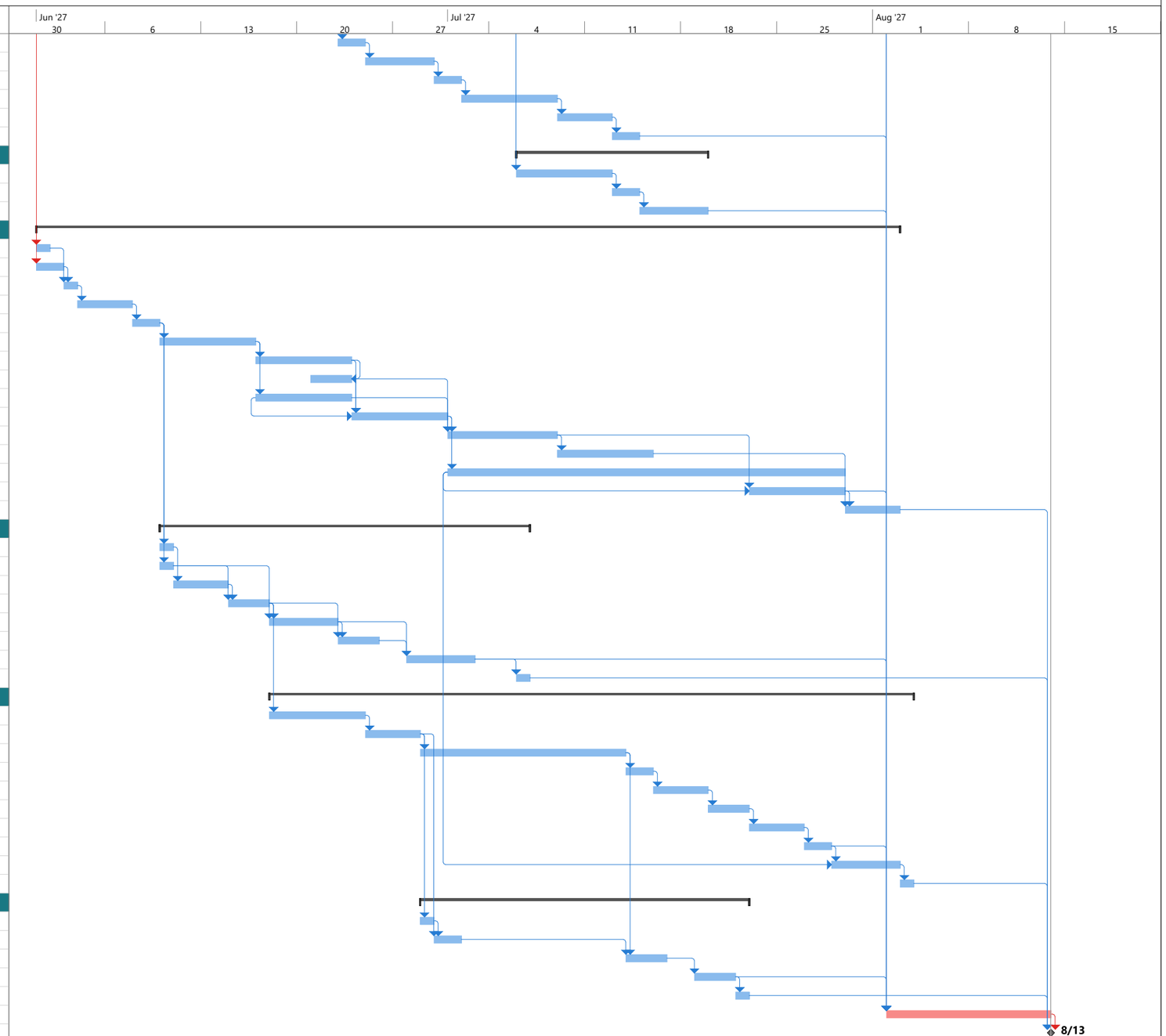
Task | Milestone | Summary | Critical | Critical Split | Progress

Poettker Construction

PARKWAY SCHOOL DISTRICT
ECC WEST BLDG. RENO & SITE IMPROVEMENTS
BIDDING SCHEDULE

PARKWAY SCHOOLS

ID	Task Name	Duration	Start	Finish	Notes
56	12_MEP Overhead Rough-In	2 days	Wed 6/23/27	Thu 6/24/27	
57	12_New Ceiling	3 days	Fri 6/25/27	Tue 6/29/27	
58	12_Painting	2 days	Wed 6/30/27	Thu 7/1/27	
59	12_Tile Flooring	4 days	Fri 7/2/27	Thu 7/8/27	
60	12_MEP Trim-Out	2 days	Fri 7/9/27	Mon 7/12/27	
61	12_Div 10 Specialties	2 days	Tue 7/13/27	Wed 7/14/27	
62	**CLASSROOM 2202**	**10 days**	**Tue 7/6/27**	**Mon 7/19/27**	
63	22_Abatement of Wall Base	5 days	Tue 7/6/27	Mon 7/12/27	
64	22_Flooring Removal	2 days	Tue 7/13/27	Wed 7/14/27	
65	22_New Flooring & Base	3 days	Thu 7/15/27	Mon 7/19/27	
66	**PLAYGROUNDS**	**44 days**	**Tue 6/1/27**	**Mon 8/2/27**	
67	Demo Fencing	1 day	Tue 6/1/27	Tue 6/1/27	
68	Demo Play Equipment	2 days	Tue 6/1/27	Wed 6/2/27	
69	Remove Mulch	1 day	Thu 6/3/27	Thu 6/3/27	
70	Demo Retaining Walls	2 days	Fri 6/4/27	Mon 6/7/27	
71	Demo Sidewalks	2 days	Tue 6/8/27	Wed 6/9/27	
72	Storm Sewer Install	5 days	Thu 6/10/27	Wed 6/16/27	
73	Retaining Wall	5 days	Thu 6/17/27	Wed 6/23/27	
74	Backfill & Grade At Retaining Wall	3 days	Mon 6/21/27	Wed 6/23/27	
75	Perimeter Curbs	5 days	Thu 6/17/27	Wed 6/23/27	
76	Backfill / Grade / Underdrains At Playground	5 days	Thu 6/24/27	Wed 6/30/27	
77	Sidewalks	5 days	Thu 7/1/27	Thu 7/8/27	
78	New Handrails	5 days	Fri 7/9/27	Thu 7/15/27	
79	Playground Equip & Surface (N.I.C.)	20 days	Thu 7/1/27	Thu 7/29/27	
80	Fencing	5 days	Fri 7/23/27	Thu 7/29/27	
81	Final Stabilization	2 days	Fri 7/30/27	Mon 8/2/27	
82	**ASPHALT PLAYGROUND**	**18 days**	**Thu 6/10/27**	**Tue 7/6/27**	
83	Temp Relocate Shed	1 day	Thu 6/10/27	Thu 6/10/27	
84	Fence Modifications	1 day	Thu 6/10/27	Thu 6/10/27	
85	Demo Asphalt	2 days	Fri 6/11/27	Mon 6/14/27	
86	Rough Grade	3 days	Tue 6/15/27	Thu 6/17/27	
87	Concrete Pad	3 days	Fri 6/18/27	Tue 6/22/27	
88	Asphalt Pavement	3 days	Wed 6/23/27	Fri 6/25/27	
89	Repair Access Road	5 days	Mon 6/28/27	Fri 7/2/27	
90	Final Stabilization	1 day	Tue 7/6/27	Tue 7/6/27	
91	**ENTRY DRIVE LANE**	**32 days**	**Fri 6/18/27**	**Tue 8/3/27**	
92	Demo Asphalt & Sidewalks	5 days	Fri 6/18/27	Thu 6/24/27	
93	Rough Grade	2 days	Fri 6/25/27	Mon 6/28/27	
94	Form / Pour Sidewalks	10 days	Tue 6/29/27	Tue 7/13/27	
95	Form / Pour ADA Parking Slab	2 days	Wed 7/14/27	Thu 7/15/27	
96	Asphalt Base Course	2 days	Fri 7/16/27	Mon 7/19/27	
97	Mill Asphalt	3 days	Tue 7/20/27	Thu 7/22/27	
98	Asphalt Surface Course	2 days	Fri 7/23/27	Mon 7/26/27	
99	Pavement Striping & Signs	2 days	Tue 7/27/27	Wed 7/28/27	
100	Sidewalk Section at Playground Access	3 days	Thu 7/29/27	Mon 8/2/27	
101	Final Stabilization	1 day	Tue 8/3/27	Tue 8/3/27	
102	**NORTH SIDEWALKS**	**17 days**	**Tue 6/29/27**	**Thu 7/22/27**	
103	Demo Sidewalk	1 day	Tue 6/29/27	Tue 6/29/27	
104	Rough Grade & Culvert	2 days	Wed 6/30/27	Thu 7/1/27	
105	Form / Pour Sidewalk	3 days	Wed 7/14/27	Fri 7/16/27	
106	Handrails	3 days	Mon 7/19/27	Wed 7/21/27	
107	Final Stabilization	1 day	Thu 7/22/27	Thu 7/22/27	
108	Punch List & Corrections	10 days	Mon 8/2/27	Fri 8/13/27	
109	**Substantial Completion**	0 days	Fri 8/13/27	Fri 8/13/27	



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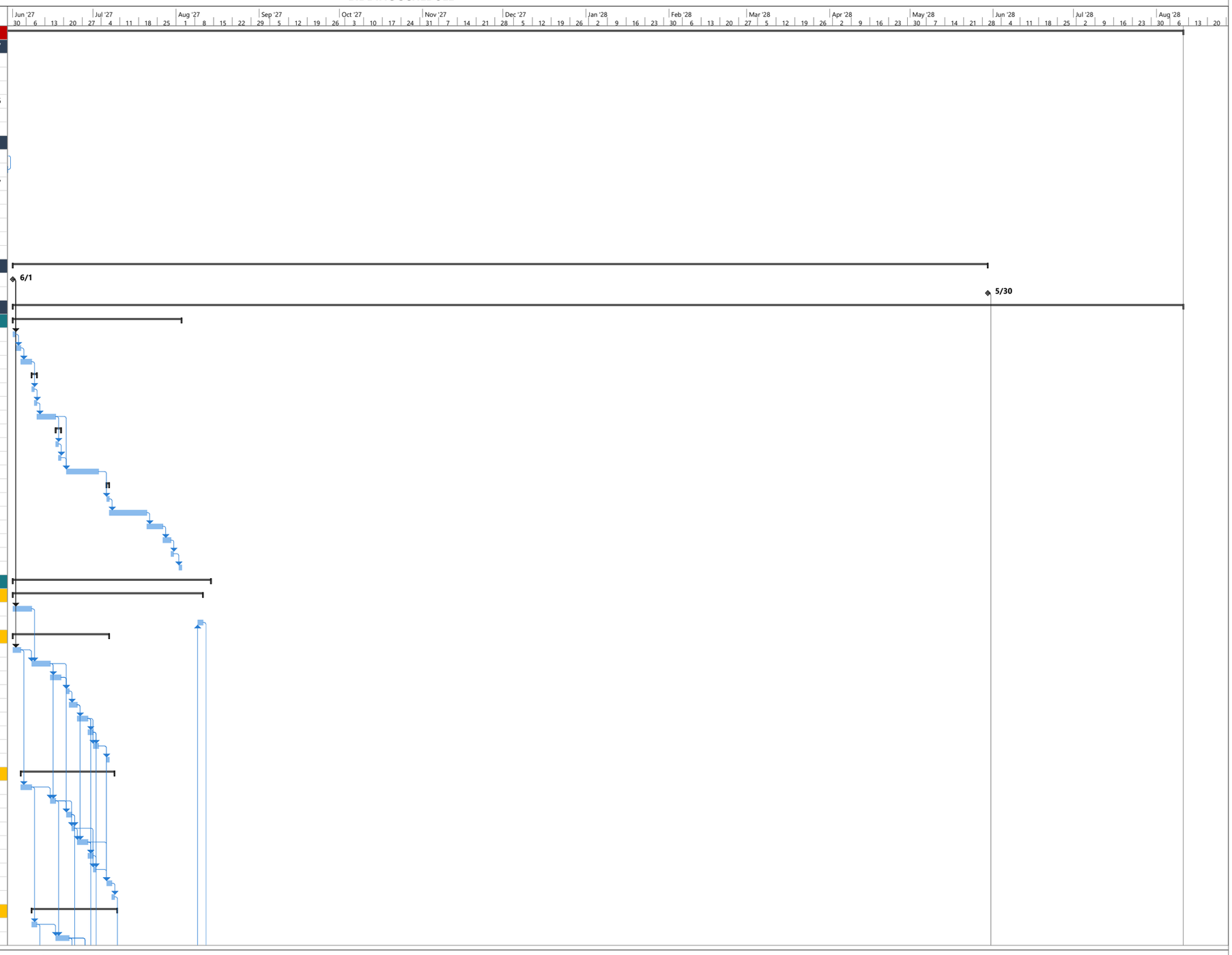
Task | Milestone | Summary | Critical | Critical Split | Progress

Poettker Construction

PARKWAY SCHOOL DISTRICT
WEM BUILDING RENOVATION
BIDDING SCHEDULE

PARKWAY SCHOOLS

ID	Task Name	Duration	Start	Finish
1	**WEM BLDG. RENO**	**457 days**	**Thu 11/5/26**	**Thu 8/10/28**
2	**BIDDING**	**50 days**	**Thu 11/5/26**	**Wed 1/13/27**
3	Issue for Bid	0 days	Thu 11/5/26	Thu 11/5/26
4	Project Bidding	21 days	Thu 11/5/26	Thu 12/3/26
5	Bid Open	0 days	Thu 12/3/26	Thu 12/3/26
6	Bid Interviews & GMP	8 days	Fri 12/4/26	Tue 12/15/26
7	Board Review	21 days	Wed 12/16/26	Wed 1/13/27
8	Award	0 days	Wed 1/13/27	Wed 1/13/27
9	**PROCUREMENT**	**97 days**	**Thu 1/14/27**	**Fri 5/28/27**
10	Contracting & Adminstration	97 days	Thu 1/14/27	Fri 5/28/27
11	Mobilization	5 days	Mon 5/24/27	Fri 5/28/27
12	**210000 - Fire Suppression**	**75 days**	**Thu 2/4/27**	**Wed 5/19/27**
13	21_Field Work & Verification	15 days	Thu 2/4/27	Wed 2/24/27
14	21_Delegated Design	10 days	Thu 2/25/27	Wed 3/10/27
15	21_Review & Approval	10 days	Thu 3/11/27	Wed 3/24/27
16	21_AHJ Approval	20 days	Thu 3/25/27	Wed 4/21/27
17	21_Fabricate & Deliver Materials	20 days	Thu 4/22/27	Wed 5/19/27
18	**PHASING**	**259 days**	**Tue 6/1/27**	**Tue 5/30/28**
19	Phase 1 - Summer 2027	0 days	Tue 6/1/27	Tue 6/1/27
20	Phase 2 - Summer 2027	0 days	Tue 5/30/28	Tue 5/30/28
21	**CONSTRUCTION**	**310 days**	**Tue 6/1/27**	**Thu 8/10/28**
22	**EXTERIOR DUCTWORK**	**44 days**	**Tue 6/1/27**	**Mon 8/2/27**
23	Per-Construction Roof Inspection	1 day	Tue 6/1/27	Tue 6/1/27
24	Temporary Roof Protection	2 days	Wed 6/2/27	Thu 6/3/27
25	Shutdown & Disconnect Mechanical Units	2 days	Fri 6/4/27	Mon 6/7/27
26	**Crane Pick 1_Parking Lot / Drive Lane Shut Down**	**2 days**	**Tue 6/8/27**	**Wed 6/9/27**
27	Traffic Controls / Prepare Duct for Removal	1 day	Tue 6/8/27	Tue 6/8/27
28	Crane Pick 1 - Demolish Existing Ductwork	1 day	Wed 6/9/27	Wed 6/9/27
29	Inspect / Repair Curbs, Flashings, Roofing System	5 days	Thu 6/10/27	Wed 6/16/27
30	**Crane Pick 2_Parking Lot / Drive Lane Shut Down**	**2 days**	**Thu 6/17/27**	**Fri 6/18/27**
31	Install Traffic Controls / Stage Ductwork	1 day	Thu 6/17/27	Thu 6/17/27
32	Crane Pick 2 - Set New Ductwork On Roof	1 day	Fri 6/18/27	Fri 6/18/27
33	Install New Ductwork	10 days	Mon 6/21/27	Fri 7/2/27
34	**Crane Pick 3_Parking Lot / Drive Lane Shut Down**	**1 day**	**Tue 7/6/27**	**Tue 7/6/27**
35	Crane Pick 3 - Insulation Hoist to Roof	1 day	Tue 7/6/27	Tue 7/6/27
36	Install Insulation	10 days	Wed 7/7/27	Tue 7/20/27
37	Final Tie-Ins	4 days	Wed 7/21/27	Mon 7/26/27
38	Start-Up & Balance	3 days	Tue 7/27/27	Thu 7/29/27
39	Remove Temporary Protection	1 day	Fri 7/30/27	Fri 7/30/27
40	Final Roof Inspection & Acceptance	1 day	Mon 8/2/27	Mon 8/2/27
41	**FIRE SUPPRESSION PHASE 1**	**53 days**	**Tue 6/1/27**	**Fri 8/13/27**
42	**FIRE ENTRANCE & ZONE RISER**	**50 days**	**Tue 6/1/27**	**Tue 8/10/27**
43	Fire Riser	5 days	Tue 6/1/27	Mon 6/7/27
44	FDC	2 days	Mon 8/9/27	Tue 8/10/27
45	**AREA F - Zone 2**	**25 days**	**Tue 6/1/27**	**Tue 7/6/27**
46	F_Selective Ceiling Removal	3 days	Tue 6/1/27	Thu 6/3/27
47	F_Run Mains	5 days	Tue 6/8/27	Mon 6/14/27
48	F_Branch Lines & Drops	4 days	Tue 6/15/27	Fri 6/18/27
49	F_Hydrostatic Test & Above Ceiling Inspection	1 day	Mon 6/21/27	Mon 6/21/27
50	F_Replace Gyp	3 days	Tue 6/22/27	Thu 6/24/27
51	F_Paint	2 days	Fri 6/25/27	Mon 6/28/27
52	F_Replace ACT Grid	2 days	Tue 6/29/27	Wed 6/30/27
53	F_Trim-Out	2 days	Thu 7/1/27	Fri 7/2/27
54	F_Replace ACT Pads	1 day	Tue 7/6/27	Tue 7/6/27
55	**AREA E - Zone 2**	**24 days**	**Fri 6/4/27**	**Thu 7/8/27**
56	E_Selective Ceiling Removal	2 days	Fri 6/4/27	Mon 6/7/27
57	E_Run Mains	2 days	Tue 6/15/27	Wed 6/16/27
58	E_Branch Lines & Drops	2 days	Mon 6/21/27	Tue 6/22/27
59	E_Hydrostatic Test & Above Ceiling Inspection	1 day	Wed 6/23/27	Wed 6/23/27
60	E_Replace Gyp	2 days	Fri 6/25/27	Mon 6/28/27
61	E_Paint	2 days	Tue 6/29/27	Wed 6/30/27
62	E_Replace ACT Grid	1 day	Thu 7/1/27	Thu 7/1/27
63	E_Trim-Out	2 days	Tue 7/6/27	Wed 7/7/27
64	E_Replace ACT Pads	1 day	Thu 7/8/27	Thu 7/8/27
65	**Area C - Zone 2**	**23 days**	**Tue 6/8/27**	**Fri 7/9/27**
66	C_Selective Ceiling Removal	2 days	Tue 6/8/27	Wed 6/9/27
67	C_Run Mains	3 days	Thu 6/17/27	Mon 6/21/27



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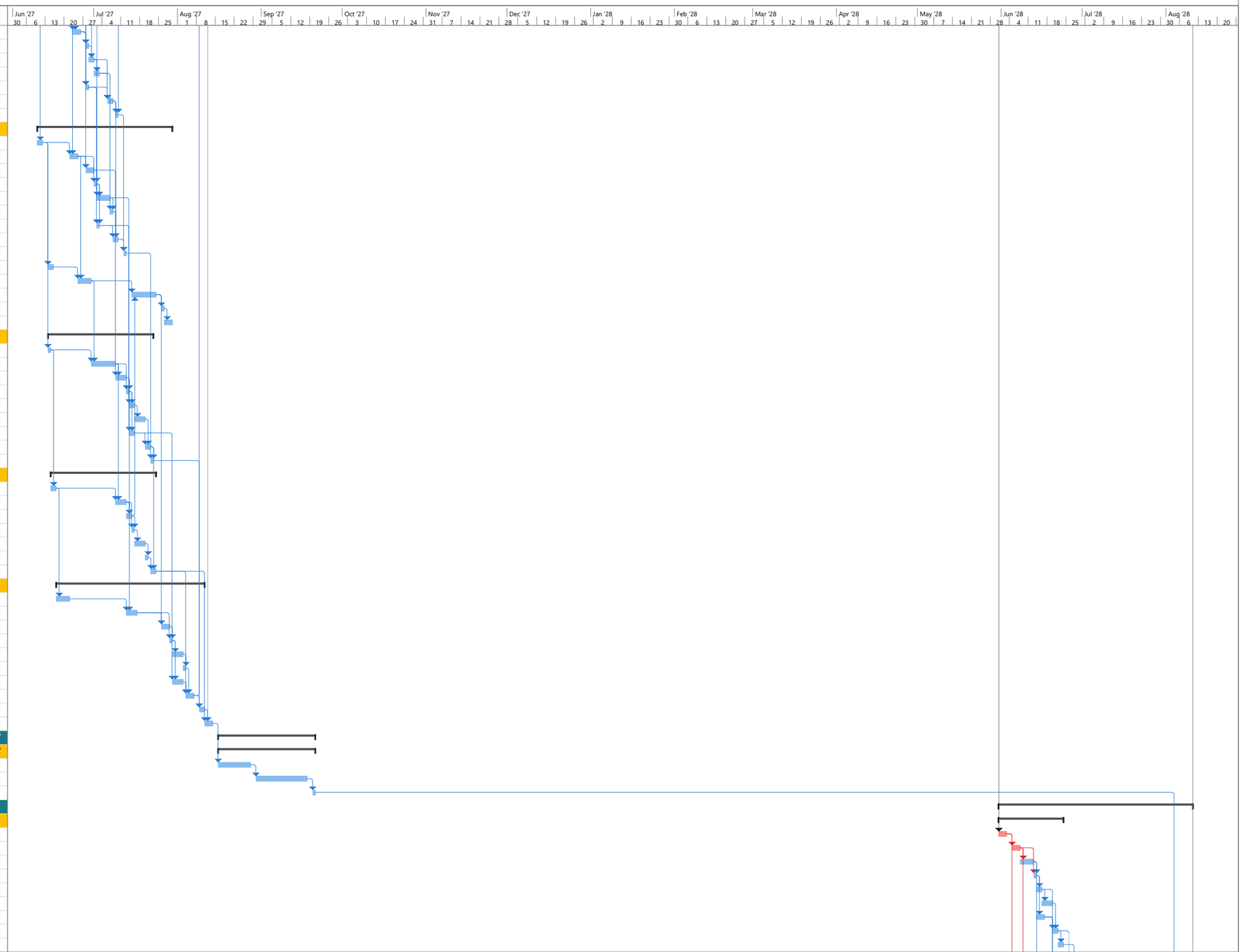
Task | Milestone | Summary | Critical | Critical Split | Progress

Poettker Construction

PARKWAY SCHOOL DISTRICT
WEM BUILDING RENOVATION
BIDDING SCHEDULE

PARKWAY SCHOOLS

ID	Task Name	Duration	Start	Finish
68	C_Branch Lines & Drops	3 days	Wed 6/23/27	Fri 6/25/27
69	C_Hydrostatic Test & Above Ceiling Inspection	1 day	Mon 6/28/27	Mon 6/28/27
70	C_Replace Gyp	2 days	Tue 6/29/27	Wed 6/30/27
71	C_Paint	2 days	Thu 7/1/27	Fri 7/2/27
72	C_Replace ACT Grid	1 day	Mon 6/28/27	Mon 6/28/27
73	C_Trim-Out	2 days	Tue 7/6/27	Wed 7/7/27
74	C_Replace ACT Pads	1 day	Fri 7/9/27	Fri 7/9/27
75	**Area D - Zone 1**	**35 days**	**Thu 6/10/27**	**Thu 7/29/27**
76	D_Selective Ceiling Removal	2 days	Thu 6/10/27	Fri 6/11/27
77	D_Run Mains	3 days	Tue 6/22/27	Thu 6/24/27
78	D_Branch Lines & Drops	3 days	Mon 6/28/27	Wed 6/30/27
79	D_Hydrostatic Test & Above Ceiling Inspection	1 day	Thu 7/1/27	Thu 7/1/27
80	D_Replace Gyp	2 days	Fri 7/2/27	Tue 7/6/27
81	D_Paint	1 day	Wed 7/7/27	Wed 7/7/27
82	D_Replace ACT Grid	1 day	Fri 7/2/27	Fri 7/2/27
83	D_Trim-Out	2 days	Thu 7/8/27	Fri 7/9/27
84	D_Replace ACT Pads	1 day	Mon 7/12/27	Mon 7/12/27
85	D_Gym Floor Protection	2 days	Mon 6/14/27	Tue 6/15/27
86	D_Gym Mains	3 days	Fri 6/25/27	Tue 6/29/27
87	D_Gym Branch & Drops	7 days	Thu 7/15/27	Fri 7/23/27
88	D_Gym Hyddrostatic Test & Inspection	1 day	Mon 7/26/27	Mon 7/26/27
89	D_Gym Trim Out	3 days	Tue 7/27/27	Thu 7/29/27
90	**Area B - Zone 1**	**28 days**	**Mon 6/14/27**	**Thu 7/22/27**
91	B_Selective Ceiling Removal	1 day	Mon 6/14/27	Mon 6/14/27
92	B_Run Mains	6 days	Wed 6/30/27	Thu 7/8/27
93	B_Branch Lines & Drops	2 days	Fri 7/9/27	Mon 7/12/27
94	B_Hydrostatic Test & Above Ceiling Inspection	1 day	Tue 7/13/27	Tue 7/13/27
95	B_Replace Gyp	2 days	Wed 7/14/27	Thu 7/15/27
96	B_Paint	2 days	Fri 7/16/27	Mon 7/19/27
97	B_Replace ACT Grid	2 days	Wed 7/14/27	Thu 7/15/27
98	B_Trim-Out	2 days	Tue 7/20/27	Wed 7/21/27
99	B_Replace ACT Pads	1 day	Thu 7/22/27	Thu 7/22/27
100	**Area A - Zone 1**	**28 days**	**Tue 6/15/27**	**Fri 7/23/27**
101	A_Selective Ceiling Removal	2 days	Tue 6/15/27	Wed 6/16/27
102	A_Run Mains	2 days	Fri 7/9/27	Mon 7/12/27
103	A_Branch Lines	2 days	Tue 7/13/27	Wed 7/14/27
104	A_Hydrostatic Test & Above Ceiling Inspection	1 day	Thu 7/15/27	Thu 7/15/27
105	A_Replace Gyp	2 days	Fri 7/16/27	Mon 7/19/27
106	A_Paint	1 day	Tue 7/20/27	Tue 7/20/27
107	A_Trim-Out	2 days	Thu 7/22/27	Fri 7/23/27
108	**Area M - Zone 3**	**38 days**	**Thu 6/17/27**	**Tue 8/10/27**
109	M_Selective Ceiling Removal	3 days	Thu 6/17/27	Mon 6/21/27
110	M_Run Mains	4 days	Tue 7/13/27	Fri 7/16/27
111	M_Branch Lines & Drops	3 days	Mon 7/26/27	Wed 7/28/27
112	M_Hydrostatic Test & Above Ceiling Inspection	1 day	Thu 7/29/27	Thu 7/29/27
113	M_Replace Gyp	2 days	Fri 7/30/27	Mon 8/2/27
114	M_Paint	1 day	Tue 8/3/27	Tue 8/3/27
115	M_Replace ACT Grid	2 days	Fri 7/30/27	Mon 8/2/27
116	M_Trim-Out	3 days	Wed 8/4/27	Fri 8/6/27
117	M_Replace ACT Pads	2 days	Mon 8/9/27	Tue 8/10/27
118	Phase 1 Final Test & Acceptance	3 days	Wed 8/11/27	Fri 8/13/27
119	**FIRE SUPPRESSION PHASE 1B**	**26 days**	**Mon 8/16/27**	**Mon 9/20/27**
120	**Mech Room 2601**	**26 days**	**Mon 8/16/27**	**Mon 9/20/27**
121	MEC_Run Mains	10 days	Mon 8/16/27	Fri 8/27/27
122	MEC_Branch Lines & Drops	15 days	Mon 8/30/27	Fri 9/17/27
123	MEC_Hydrostatic Test	1 day	Mon 9/20/27	Mon 9/20/27
124	**FIRE SUPPRESSION PHASE 2**	**51 days**	**Wed 5/31/28**	**Thu 8/10/28**
125	**Area L - Zone 3**	**18 days**	**Wed 5/31/28**	**Fri 6/23/28**
126	L_Selective Ceiling Removal	3 days	Wed 5/31/28	Fri 6/2/28
127	L_Run Mains	3 days	Mon 6/5/28	Wed 6/7/28
128	L_Branch Lines & Drops	3 days	Thu 6/8/28	Mon 6/12/28
129	L_Hydrostatic Test & Above Ceiling Inspection	1 day	Tue 6/13/28	Tue 6/13/28
130	L_Replace Gyp	2 days	Wed 6/14/28	Thu 6/15/28
131	L_Paint	2 days	Fri 6/16/28	Mon 6/19/28
132	L_Replace ACT Grid	3 days	Wed 6/14/28	Fri 6/16/28
133	L_Trim-Out	2 days	Tue 6/20/28	Wed 6/21/28
134	L_Replace ACT Pads	2 days	Thu 6/22/28	Fri 6/23/28



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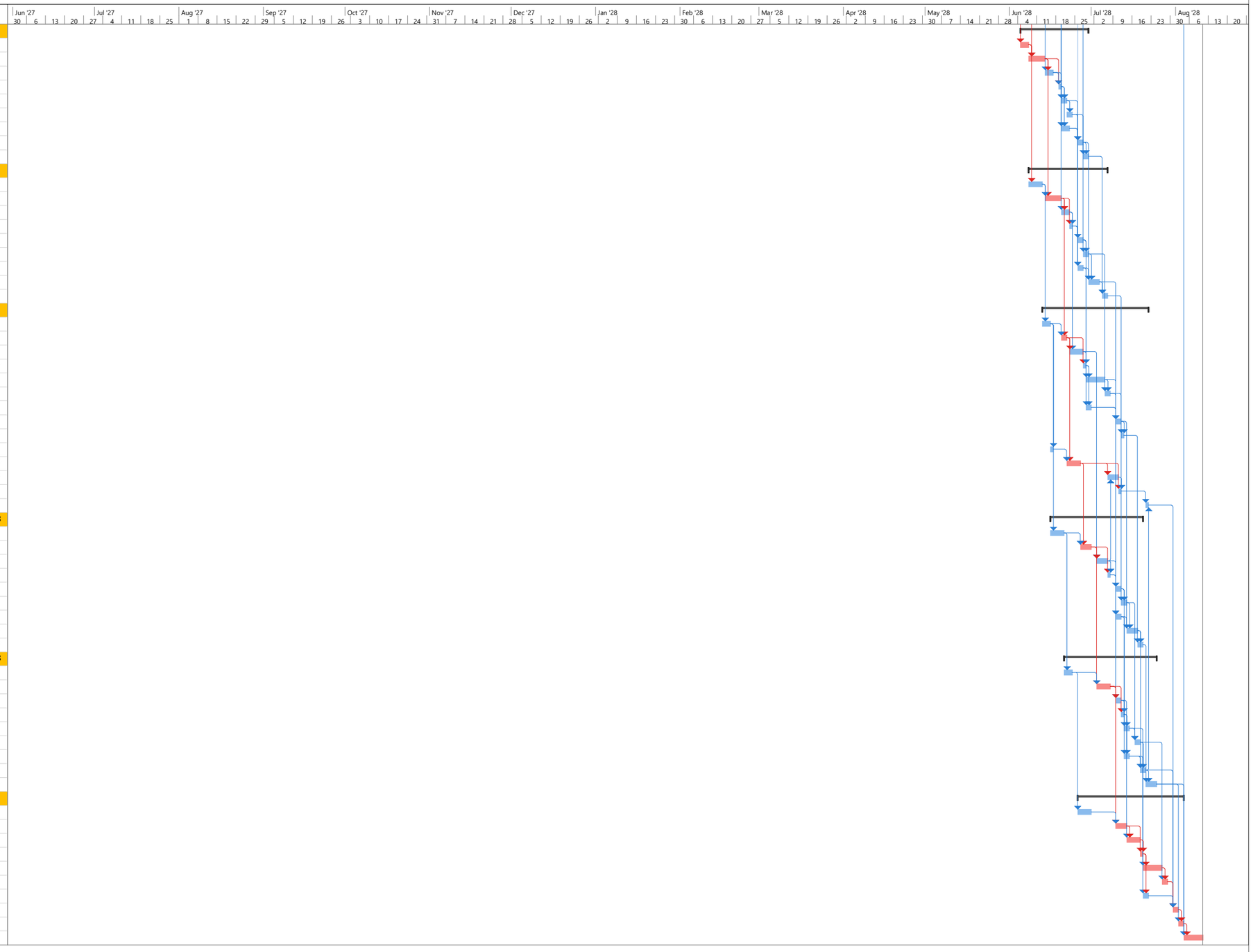
Task | Milestone | Summary | Critical | Critical Split | Progress

Poettker Construction

PARKWAY SCHOOL DISTRICT
WEM BUILDING RENOVATION
BIDDING SCHEDULE

PARKWAY SCHOOLS

ID	Task Name	Duration	Start	Finish
135	**Area H - Zone 3**	**19 days**	**Mon 6/5/28**	**Thu 6/29/28**
136	H_Selective Ceiling Removal	3 days	Mon 6/5/28	Wed 6/7/28
137	H_Run Mains	4 days	Thu 6/8/28	Tue 6/13/28
138	H_Branch Lines & Drops	3 days	Wed 6/14/28	Fri 6/16/28
139	H_Hydrostatic Test & Above Ceiling Inspection	1 day	Mon 6/19/28	Mon 6/19/28
140	H_Replace Gyp	2 days	Tue 6/20/28	Wed 6/21/28
141	H_Paint	2 days	Thu 6/22/28	Fri 6/23/28
142	H_Replace ACT Grid	3 days	Tue 6/20/28	Thu 6/22/28
143	H_Trim-Out	2 days	Mon 6/26/28	Tue 6/27/28
144	H_Replace ACT Pads	2 days	Wed 6/28/28	Thu 6/29/28
145	**Area G - Zone 3**	**20 days**	**Thu 6/8/28**	**Thu 7/6/28**
146	G_Selective Ceiling Removal	3 days	Thu 6/8/28	Mon 6/12/28
147	G_Run Mains	4 days	Wed 6/14/28	Mon 6/19/28
148	G_Branch Lines & Drops	3 days	Tue 6/20/28	Thu 6/22/28
149	G_Hydrostatic Test & Above Ceiling Inspection	1 day	Fri 6/23/28	Fri 6/23/28
150	G_Replace Gyp	2 days	Mon 6/26/28	Tue 6/27/28
151	G_Paint	2 days	Wed 6/28/28	Thu 6/29/28
152	G_Replace ACT Grid	2 days	Mon 6/26/28	Tue 6/27/28
153	G_Trim-Out	2 days	Fri 6/30/28	Mon 7/3/28
154	G_Replace ACT Pads	2 days	Wed 7/5/28	Thu 7/6/28
155	**Area K - Zone 3**	**28 days**	**Tue 6/13/28**	**Fri 7/21/28**
156	K_Selective Ceiling Removal	3 days	Tue 6/13/28	Thu 6/15/28
157	K_Run Mains	2 days	Tue 6/20/28	Wed 6/21/28
158	K_Branch Lines & Drops	3 days	Fri 6/23/28	Tue 6/27/28
159	K_Hydrostatic Test & Above Ceiling Inspection	1 day	Wed 6/28/28	Wed 6/28/28
160	K_Replace Gyp	4 days	Thu 6/29/28	Wed 7/5/28
161	K_Paint	2 days	Thu 7/6/28	Fri 7/7/28
162	K_Replace ACT Grid	2 days	Thu 6/29/28	Fri 6/30/28
163	K_Trim-Out	2 days	Mon 7/10/28	Tue 7/11/28
164	L_Replace ACT Pads	1 day	Wed 7/12/28	Wed 7/12/28
165	K_Library Asset Protection	1 day	Fri 6/16/28	Fri 6/16/28
166	K_Library Run Mains	3 days	Thu 6/22/28	Mon 6/26/28
167	K_Library Branch Lines & Drops	2 days	Fri 7/7/28	Mon 7/10/28
168	K_Library Hyrostatic Test	1 day	Tue 7/11/28	Tue 7/11/28
169	K_Library Trim-Out	1 day	Fri 7/21/28	Fri 7/21/28
170	**Area J - Zone 3**	**23 days**	**Fri 6/16/28**	**Wed 7/19/28**
171	J_Selective Ceiling Removal	3 days	Fri 6/16/28	Tue 6/20/28
172	J_Run Mains	4 days	Tue 6/27/28	Fri 6/30/28
173	J_Branch Lines	3 days	Mon 7/3/28	Thu 7/6/28
174	J_Hydrostatic Test & Above Ceiling Inspection	1 day	Fri 7/7/28	Fri 7/7/28
175	J_Replace Gyp	2 days	Mon 7/10/28	Tue 7/11/28
176	J_Paint	2 days	Wed 7/12/28	Thu 7/13/28
177	J_Replace ACT Grid	2 days	Mon 7/10/28	Tue 7/11/28
178	J_Trim-Out	2 days	Fri 7/14/28	Mon 7/17/28
179	J_Replace ACT Pads	2 days	Tue 7/18/28	Wed 7/19/28
180	**Area N - Zone 3**	**23 days**	**Wed 6/21/28**	**Mon 7/24/28**
181	N_Selective Ceiling Removal	3 days	Wed 6/21/28	Fri 6/23/28
182	N_Run Mains	4 days	Mon 7/3/28	Fri 7/7/28
183	N_Branch Lines	2 days	Mon 7/10/28	Tue 7/11/28
184	N_Hydrostatic Test & Above Ceiling Inspection	1 day	Wed 7/12/28	Wed 7/12/28
185	N_Replace Gyp	2 days	Thu 7/13/28	Fri 7/14/28
186	N_Paint	2 days	Mon 7/17/28	Tue 7/18/28
187	N_Replace ACT Grid	2 days	Thu 7/13/28	Fri 7/14/28
188	N_Trim-Out	2 days	Wed 7/19/28	Thu 7/20/28
189	N_Replace ACT Pads	2 days	Fri 7/21/28	Mon 7/24/28
190	**Area O - Zone 3**	**28 days**	**Mon 6/26/28**	**Thu 8/3/28**
191	O_Selective Ceiling Removal	5 days	Mon 6/26/28	Fri 6/30/28
192	O_Run Mains	4 days	Mon 7/10/28	Thu 7/13/28
193	O_Branch Lines	3 days	Fri 7/14/28	Tue 7/18/28
194	O_Hydrostatic Test & Above Ceiling Inspection	1 day	Wed 7/19/28	Wed 7/19/28
195	O_Replace Gyp	5 days	Thu 7/20/28	Wed 7/26/28
196	O_Paint	2 days	Thu 7/27/28	Fri 7/28/28
197	O_Replace ACT Grid	2 days	Thu 7/20/28	Fri 7/21/28
198	O_Trim-Out	2 days	Mon 7/31/28	Tue 8/1/28
199	O_Replace ACT Pads	2 days	Wed 8/2/28	Thu 8/3/28
200	Final Testing & Acceptance	5 days	Fri 8/4/28	Thu 8/10/28



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SECTION 013216
CONSTRUCTION PROGRESS SCHEDULE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preliminary schedule.

B. Construction progress schedule, with network analysis diagrams and reports.

1.02 RELATED REQUIREMENTS

A. Section 011010 - Project Summary - Bid Packages: Work sequence

B. Section 013000 - Administrative Requirements: Submittals and distribution of schedule.

1.03 REFERENCE STANDARDS

A. AGC (CPSM) - Construction Planning and Scheduling Manual.

B. M-H (CPM) - CPM in Construction Management - Project Management with CPM.

1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements.

B. Within 10 days after date of Agreement, submit preliminary schedule defining planned operations for the first 60 days of Work, with a general outline for remainder of Work.

C. If preliminary schedule requires revision after review, submit revised schedule within 10 days.

D. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.

1. Include written certification that major contractors have reviewed and accepted proposed schedule.

E. Within 10 days after joint review, submit complete schedule.

F. Submit updated schedule with each Application for Payment.

1.05 QUALITY ASSURANCE

A. Scheduler: Contractor's personnel or specialist Consultant specializing in CPM scheduling with three years minimum experience in scheduling construction work of a complexity comparable to this Project, and having use of computer facilities capable of delivering a detailed graphic printout within 48 hours of request.

B. Contractor's Administrative Personnel: three years minimum experience in using and monitoring CPM schedules on comparable projects.

1.06 SCHEDULE FORMAT

A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section number.

B. Diagram Sheet Size: Maximum 24 x 36 inches.

C. Sheet Size: Multiples of 8-1/2 x 11 inches.

D. Scale and Spacing: To allow for notations and revisions.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRELIMINARY SCHEDULE

A. Prepare preliminary schedule in the form of a preliminary network diagram.

3.02 CONTENT

A. Show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.

B. Identify each item by specification section number.

C. Identify work of separate phases and stages and other logically grouped activities.

D. Provide sub-schedules for each stage of Work identified in Section 011000 - Summary.

E. Provide sub-schedules to define critical portions of the entire schedule.
   1. Identify start-up and testing activity for major equipment or systems.
   2. Identify building automation systems activity after installation of major equipment or systems.
   3. Identify testing and balancing activity associated with generation or preliminary report and separately for generation of final report if testing and balancing reports are required as part of project scope of work.

F. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the report data day of each report.

G. Identify submittal dates for shop drawings, product data, and samples, owner-furnished products, and dates reviewed submittals will be required from Architect. Indicate decision dates for selection of finishes.

H. Indicate delivery dates for owner-furnished products.

I. Coordinate content with schedule of values specified in Section 012000 - Price and Payment Procedures.

J. Provide legend for symbols and abbreviations used.

K. Include weather days allowance as identified in the General Conditions as part of critical path.

3.03 NETWORK ANALYSIS

A. Prepare network analysis diagrams and supporting mathematical analyses using the Critical Path Method.

B. Illustrate order and interdependence of activities and sequence of work; how start of a given activity depends on completion of preceding activities, and how completion of the activity may restrain start of subsequent activities.

C. Mathematical Analysis: Tabulate each activity of detailed network diagrams, using calendar dates, and identify for each activity:
   1. Preceding and following event numbers.
   2. Activity description.
   3. Estimated duration of activity, in maximum 14 day intervals.
   4. Earliest start date.
   5. Earliest finish date.
   6. Actual start date.
   7. Actual finish date.
   8. Latest start date.
   9. Latest finish date.
   10. Total and free float; float time shall accrue to Owner and to Owner's benefit.
      a. Changes to the Work which can be performed during float time shall not be considered a delay and therefore shall not cause a change to the Substantial Completion Date.
   11. Percentage of activity completed.
   12. Responsibility.

D. Analysis Program: Capable of accepting revised completion dates, and recomputation of all dates and float.

E. Required Reports: List activities in sorts or groups if network diagram is incapable of graphically identifying the relationships between activities and the critical path:
   1. By preceding work item or event number from lowest to highest.
   2. By amount of float, then in order of early start.
   3. Listing of activities on the critical path.

3.04 REVIEW AND EVALUATION OF SCHEDULE

A. Participate in joint review and evaluation of schedule with Owner and Architect at each submittal.

B. Evaluate project status to determine work behind schedule and work ahead of schedule.

C. After review, revise as necessary as result of review, and resubmit within 10 days.

3.05 UPDATING SCHEDULE

A. Maintain schedules to record actual start and finish dates of completed activities.

B. Indicate progress of each activity to date of revision, with projected completion date of each activity.

C. Update diagrams to graphically depict current status of Work.

D. Identify activities modified since previous submittal, major changes in Work, and other identifiable changes.

E. Indicate changes required to maintain Date of Substantial Completion.

F. Submit reports required to support recommended changes.

G. Provide narrative report to define problem areas, anticipated delays, and impact on the schedule. Report corrective action taken or proposed and its effect including the effects of changes on schedules of separate contractors.

3.06 DISTRIBUTION OF SCHEDULE

A. Distribute copies of updated schedules to Contractor's project site file, to Subcontractors, suppliers, Architect, Owner, and other concerned parties as required in Section 013000.

B. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

END OF SECTION 013216

SECTION 013333
TECHNICAL SUBMITTAL SUMMARY

PART 1 GENERAL

2.01 THE SUBMITTALS REQUIRED FROM THE CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING. REFER TO EACH SECTION FOR REQUIRED SUBMITTALS.

A. Section 011010 Project Summary - Bid Packages
   1. Before Start of Work:
      a. Plan of Action
      b. Pre-Work Inspection

B. Section 013000 Administrative Requirements
   1. Before Start of Work:
      a. Contingency Plans
      b. Accreditation/License: of accreditation of general superintendent
      c. Tools
      d. Contractors Construction Schedule
   2. Project Close-Out:
      a. Daily Logs, Event/Accident/Discovered Condition Reports

C. Section 014113 Asbestos Abatement Codes, Regulaions and Standards
   1. Before Start of Work:
      a. Licenses/Permits
      b. Notifications

D. Section 015000 Temporary Facilities and Controls
   1. Before Start of Work:
      a. Scaffolding Plan, If used
      b. Decontamination Unit Sub-panel
      c. Ground Fault Circuit Interrupters (GFCI)

E. Section 015139 Temporary Negative Pressure & Air Circulation System
   1. Before Start of Work:
      a. Negative Pressure System Design
      b. HEPA Filtered Fan Units: Product data
      c. Monitoring Equipment: Product data

F. Section 015643 Temporary Enclosures
   1. Before Start of Work:
      a. Spray Cement: Product data & Material Safety Data Sheet
      b. Signs: Samples

G. Section 015726 Decontamination Units
   1. Before Start of Work:
      a. Personnel/ Equipment Decontamination Unit(s): Sketch showing location
      b. Filters: Product Data

H. Section 015733 Worker Protection
   1. Before Start of Work:
      a. AHERA Accreditation: for each worker
      b. State and Local License: for each worker
      c. Certificate Worker Acknowledgment: for each worker
      d. Statement of Physician's opinion for each worker

I. Section 015736 Respiratory Protection

1. Before Start of Work:
    a. Product Data
    b. NIOSH and MSHA Certifications
    c. Respiratory Protection Program

J. Section 016000 Product Requirements
1. Before Start of Work:
    a. Product List Schedule
    b. MSD sheets on products

K. Section 017000 Execution Requirements
1. Project Close-Out:
    a. Record Document

L. Section 017333 Project Decontamination
1. After Contractor's Final Testing:
    a. Certification of Visual Inspection

M. Section 028213 Removal of Asbestos Containing Materials
1. Before Start of Work:
    a. Surfactant: Product Data
    b. Material Safety Data Sheet: for each Surfactant
    c. Mini Enclosure: Layout Sketch, Location

N. Section 028233 Disposal of Asbestos Containing Waste Materials
1. Before Start of Work:
    a. Waste Hauler State / Local License
    b. Landfill name, address, contact person and telephone number
2. Project Close-Out:
    a. Copies of manifests and disposal site receipts

O. Section 028236 Removal of Class II Asbestos Containing Materials
1. Before Start of Work:
    a. Adhesive removal solvent: Product Data
    b. Material Safety Data Sheet: for solvent

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 013333

SECTION 013553
SECURITY PROCEDURES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Security measures including formal security program, entry control, personnel identification, and miscellaneous restrictions.

1.02 RELATED REQUIREMENTS

A. Section 011010 - Project Summary - Bid Packages: use of premises and occupancy

B. Section 015000 - Temporary Facilities and Controls: Temporary lighting.

1.03 SECURITY PROGRAM

A. Protect Work , existing premises and Owner's operations from theft, vandalism, and unauthorized entry.

B. Initiate program in coordination with Owner's existing security system at project mobilization.

C. Maintain program throughout construction period until Owner occupancy.

1.04 ENTRY CONTROL

A. Restrict entrance of persons and vehicles into Project site and existing facilities.

B. Allow entrance only to authorized persons with proper identification.

C. Maintain log of workers and visitors, make available to Owner on request.

D. Owner will control entrance of persons and vehicles related to Owner's operations.

1.05 SECURITY IDENTIFICATION

A. Provide identification badge to each person authorized to enter premises.

B. All Contractor or Subcontractor employees working on the Project site will be required to obtain security identification badges before coming to the Project site.

C. **Failure of the Contractor or Subcontractor to enforce these security identification procedures may lead to a ban on future work with the Owner in addition to notices of non-performance.**

D. Badges may be obtained Monday through Friday after contacting the Parkway School District Security/Badging Office (Logan Gnade) at 314-415-8262, and making an appointment. The Parkway School District Security/Badging office is located at the Parkway School District Welcome Center at South Middle School, 760 Woods Mill Road, Manchester, Missouri 63011.

E. To obtain a security identification badge, the Contractor or Subcontractor employee shall be required to give their full name, present personal identification verifying their name (e.g., driver's license), give their employer's company name, and present documentation verifying their employment with the company (e.g., business card, identification letter on company letterhead, etc.).

1. During normal working hours, employment confirmation may be made by a confirming telephone call to the company.

F. Security identification badge must be kept with the Contractor or Subcontractor employee and prominently displayed while they are on the Project site.

1. The Contractor or Subcontractor employee shall prior to or immediately upon arriving at the project site to begin their work, report to the Contractor's Superintendent to present the their security identification badge and shall record the badge number on the Security Badges & OSHA 10 Hour Training Log form provided by the Contractor.
2. The security identification badge may be temporarily removed from prominent display if the security identification badge will pose a safety threat to the Contractor or Subcontractor employee as the employee carries out the Work.

3. If the Contractor or Subcontractor employee temporarily removes the security identification badge from prominent display for safety purposes, the Contractor or Subcontractor employee shall promptly present the security identification badge to any employee of the Owner that requests to see the security identification badge.

G. Failure to promptly present the security identification badge shall be grounds for instant removal of the Contractor or Subcontractor employee from the Project site until the security identification badge can be presented.

H. If the Contractor or Subcontractor employee fails to present the security identification badge a second time, the Owner will request the Contractor or Subcontractor employee to be removed from the Project site permanently.

I. Require return of badges at expiration of their employment on the Work.

1.06 SUBMITTALS

A. Owner's Standard Security Badges & OSHA 10 Hour Training Log Form is in Section 006000 - Project Forms.

B. Submit a copy of the Owner's Standard Security Badges & OSHA 10 Hour Training Log required under paragraph 1.05.F.1 of this Section prior to submitting Final Application for Payment or no later than 42 days from Substantial Completion, whichever comes first.

1.07 RESTRICTIONS

A. Do not allow cameras on site or photographs taken except by written approval of Owner.

B. Do not work prior to 6:00 a.m. or after 11:00 p.m. Monday through Friday within enclosed facility without prior approval of Owner.

C. Do not work on site or on exterior of facility outside of times allowed by local municipality or county ordinance.

D. Do not work on Saturdays, Sundays, or holidays without prior approval of Owner.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 013553

SECTION 014000
QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Submittals.

B. References and standards.

C. Inspection agencies and services.

D. Control of installation.

E. Mock-ups.

F. Tolerances.

G. Owner's required inspections.

H. Manufacturers' field services.

I. Defect Assessment.

1.02 RELATED REQUIREMENTS

A. Document 007200 - General Conditions: Inspections and approvals required by public authorities.

B. Section 013000 - Administrative Requirements: Submittal procedures.

C. Section 014216 - Definitions.

D. Section 016000 - Product Requirements: Requirements for material and product quality.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Design Data: Submit for Owner's and Architect's knowledge as contract administrator for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents, or for Owner's and Architect's information.

C. Test Reports: After each test/inspection, promptly submit one electronic copy of report to Construction Manager and to Owner's electronic document management system.

1. Include:
    a. Date issued.
    b. Project title and number.
    c. Name of inspector.
    d. Date and time of sampling or inspection.
    e. Identification of product and specifications section.
    f. Location in the Project.
    g. Type of test/inspection.
    h. Date of test/inspection.
    i. Results of test/inspection.
    j. Compliance with Contract Documents.
    k. When requested by Owner or Architect, provide interpretation of results.
2. Test report submittals are for Owner's and Architect's knowledge as contract administrator for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents, or for Owner's and Architect's information.

D. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Owner's electronic document management system.

1. Indicate material or product complies with or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
2. Certificates may be recent or previous test results on material or product, but must be acceptable to Owner and Architect.

E. Manufacturer's Instructions: When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for the Owner's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

F. Manufacturer's Field Reports: Submit reports for Owner's and Architect's benefit as contract administrator or for Owner's and Architect's information.
1. Submit report within 14 days of observation to Owner's electronic document management system for Owner's and Architect's information.
2. Submit for information for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents.

G. Erection Drawings: Submit drawings for Owner's and Architect's benefit as contract administrator or for Owner's and Architect's information.
1. Submit for information for the limited purpose of assessing compliance with information given and the design concept expressed in the Contract Documents.
2. Data indicating inappropriate or unacceptable Work may be subject to action by Architect or Owner.

1.04 REFERENCES AND STANDARDS

A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

B. Comply with reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.

C. Obtain copies of standards where required by product specification sections.

D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.

E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.

F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from Contract Documents by mention or inference otherwise in any reference document.

1.05 TESTING AND INSPECTION AGENCIES AND SERVICES

A. Owner will employ and pay for services of an independent testing agency to perform specified testing and inspection unless specifically indicated in individual specification sections to be the responsibility of the Contractor.

B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

D. Comply with specified standards as minimum quality for the work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Have work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 MOCK-UPS

A. Before installing portions of the Work where mock-ups are required, construct mock-ups in location and size indicated for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work. The purpose of mock-up is to demonstrate the proposed range of aesthetic effects and workmanship.

B. Accepted mock-ups establish the standard of quality the Architect will use to judge the Work.

C. Integrated Exterior Mock-ups: Construct integrated exterior mock-up as indicated on drawings. Coordinate installation of exterior envelope materials and products as required in individual Specification Sections. Provide adequate supporting structure for mock-up materials as necessary.

D. Room Mock-ups: Construct room mock-ups as indicated on drawings. Coordinate installation of materials, products, and assemblies as required in specification sections; finish according to requirements. Provide required lighting and any supplemental lighting where required to enable Architect to evaluate quality of the mock-up.

E. Notify Architect and Owner seven (7) working days in advance of dates and times when mockups will be constructed.

F. Provide supervisory personnel who will oversee mock-up construction. Provide workers that will be employed during the construction at Project.

G. Tests shall be performed under provisions identified in this section and identified in the respective product specification sections.

H. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes.

I. Obtain Architect's approval of mock-ups before starting work, fabrication, or construction.
   1. Architect will issue written comments within two (2) working days of initial review and each subsequent follow up review of each mockup.
   2. Make corrections as necessary until Architect's approval is issued.

J. Architect will use accepted mock-ups as a comparison standard for the remaining Work.

K. Where mock-up has been accepted by Architect and is specified in product specification sections to be removed, protect mock-up throughout construction, remove mock-up and clear area when directed to do so by Architect.

L. Where possible salvage and recycle the demolished mock-up materials.

3.03 TOLERANCES

A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.

B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.

C. Adjust products to appropriate dimensions; position before securing products in place.

3.04 TESTING AND INSPECTION

A. See individual specification sections for testing and inspection required.

B. Testing Agency Duties:
   1. Test samples of mixes submitted by Contractor.
   2. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.
   3. Perform specified sampling and testing of products in accordance with specified standards.
   4. Ascertain compliance of materials and mixes with requirements of Contract Documents.
   5. Promptly notify Owner, Architect, and Contractor of observed irregularities or non-conformance of Work or products.
   6. Perform additional tests and inspections required by Owner or Architect.
   7. Attend preconstruction meetings and if request by Owner attend progress meetings.
   8. Submit reports of all tests/inspections specified.

C. Limits on Testing/Inspection Agency Authority:
   1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
   2. Agency may not approve or accept any portion of the Work.
   3. Agency may not assume any duties of Contractor.
   4. Agency has no authority to stop the Work.

D. Contractor Responsibilities:
   1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
   2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
   3. Provide incidental labor and facilities:
      a. To provide access to Work to be tested/inspected.
      b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
      c. To facilitate tests/inspections.
      d. To provide storage and curing of test samples.
   4. Notify Owner and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
   5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
   6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.

E. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Owner.

F. Re-testing required because of non-compliance with specified requirements shall be paid for by Contractor.

3.05 CONSTRUCTION MANAGER REQUIRED INSPECTIONS

A. Owner requires inspections by Contractor 's personnel prior to execution of parts of the Work that will close off the Work from future inspection.

B. Contractor shall notify the Owner telephonically and directly (voice mail not allowed) at least 24 hours in advance of performing the Work requiring inspections by Owner.

C. If Contractor begins the Work requiring inspections by the Owner prior to the expiration of the 24 hour notification period, Owner will require Contractor to uncover the Work at Contractor's cost.

D. Contractor may proceed with the Work requiring inspections by the Owner upon expiration of the 24 hour notification period whether the Owner has representatives on site or not.

E. The following Work requires inspections by the Owner:
   1. All underground utilities prior to backfilling.
   2. All underground utility trenches prior to backfilling over tracer warning tape.
   3. All aggregate base courses prior to placement of asphalt or concrete surfaces.
   4. All final graded areas prior to installation of sod or seeding.
   5. All segmental block retaining walls prior to backfilling courses below grade.
   6. All segmental block retaining walls prior to backfilling first level of geo-grid reinforcement.
   7. Spaces above ceilings before hanging support grids.
   8. Walls containing sanitary sewer, storm sewer, water, fire sprinkler, heating water supply or return, and any other piping conveying liquid under gravity flow or pressure flow prior to enclosing the wall on both sides.
   9. Walls containing sanitary vent, natural gas, compressed air, pneumatic control and any other piping or tubing conveying gaseous material prior to enclosing the wall on both sides.
   10. Prior to conducting any pressure tests on systems.
   11. All roof curbs prior to installing mechanical equipment on the curbs.
   12. All mechanical equipment to be installed on roof curbs prior to installing on the curbs.
   13. All electrical cable splices prior to installing equipment or covers over the electrical cable splices

3.06 MANUFACTURERS' FIELD SERVICES

A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust, and balance equipment, and training as applicable, and to initiate instructions when necessary.

B. Submit qualifications of observer to Owner's electronic document management system 30 days in advance of required observations.
   1. Observer subject to approval of Architect.
   2. Observer subject to approval of Owner.

C. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

3.07 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not conforming to specified requirements at Contractor's cost.

B. If, in the opinion of Architect, it is not practical to remove and replace the work, Architect will direct an appropriate remedy or adjust payment.

END OF SECTION 014000

SECTION 014100
REGULATORY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Owner regulatory requirements.

B. County, Municipality, and Fire District regulatory requirements.

C. State regulatory requirements.

D. Federal regulatory requirements.

1.02 OWNER

A. No Tobacco Use Policy:
   1. Owner has adopted a tobacco free site policy.
   2. No tobacco products may be used in the Owner's facilities or on the Owner's grounds.
   3. Any Contractor or Subcontractor employee discovered violating this policy may be required to leave the Project site and may not be allowed to return to the Project.

B. No Firearms Policy:
   1. Owner has adopted a firearms free site policy.
   2. No firearms may be brought in the Owner's facilities or on the Owner's grounds.
   3. Any Contractor or Subcontractor employee discovered violating this policy may be required to leave the Project site and may not be allowed to return to the Project.

C. Alcohol and Controlled Substances Policy:
   1. Owner has adopted a alcohol and controlled substance free site policy.
   2. No alcohol or controlled substances may be brought in the Owner's facilities or on the Owner's grounds.
      a. Exception: Controlled substances prescribed by a doctor specifically for the use of the Contractor or Subcontractor employee in the original prescription container will be allowed.
   3. Any Contractor or Subcontractor employee discovered violating this policy may be required to leave the Project site and may not be allowed to return to the Project.

1.03 COUNTY, MUNICIPALITY, AND FIRE DISTRICT

A. Regulatory requirements applicable to this project are the following:

B. 29 CFR 1910 - Occupational Safety and Health Standards.

C. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines.

D. ADA Standards - 2010 ADA Standards for Accessible Design.

E. County of St. Louis amendments to some or all of the following.

F. Municipality where the Project is located amendments to some or all of the following.

G. Zoning Code: St. Louis County or Municipality where the project is located.

H. ICC (IBC) - International Building Code.

I. ICC A117.1 - Accessible and Usable Buildings and Facilities.

J. ICC (IBC) - ICC International Existing Building Code, 2009.

K. IAPMO (UPC) - Uniform Plumbing Code.

L. ICC (IFGC) - International Fuel Gas Code.

M. ICC (IMC) - International Mechanical Code.

N. NFPA 70 - National Electrical Code.

O. Elevator Code: State of Missouri and County of St. Louis.

P. ICC (IECC) - International Energy Conservation Code.

Q. Erosion and Sedimentation Control Regulations:Most recent edition adopted by Authority Having Jurisdiction, including all applicable amendments and supplements.

1.04 STATE

A. Prevailing Wage Law:
   1. Contractor and Subcontractors shall comply with the requirements of this paragraph 1.04 and Section 290.220 RSMo which provides that "a wage of no less than the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed, shall be paid to all workers employed by or on behalf of any public body engaged in public works exclusive of maintenance work."
   2. Contractor shall forfeit to the Owner the sum of One Hundred Dollars ($100.00) for each worker employed, for each calendar day, or portion thereof such worker is paid less than the said stipulated rates for any work done under this Contract, by the Contractor or by any Subcontractor to the Contractor.
   3. Contractor shall include provisions in all bonds to guarantee the faithful performance of the prevailing wage requirements specified herein.
   4. Contractor shall post in a prominent and easily accessible place at the Project Site during the full time that any worker shall be employed on the Project a clearly legible statement of all prevailing hourly wage rates to be paid to all workers employed in order to execute the Contract and perform the Work.
   5. Owner may request from time to time certified copies of Contractor's payroll to ascertain if Contractor is in compliance.
   6. Contractor shall execute an affidavit stating compliance with the prevailing wage law upon completion of the Project and before final payment request.
      a. The affidavit form is in Section 006000 - Project Forms.
   7. The Contractor and each Subcontractor shall maintain accurate records pertaining to wages paid all workers employed on the Project within the State of Missouri for a period of not less than 1 year following Final Acceptance by Owner.
   8. Wage Rate Determination for this Project is attached following this section.
   9. Submittals:
      a. Contractor will execute an affidavit stating compliance with the prevailing wage law upon completion of the project and before final payment request.
      b. The affidavit form is in Section 006000 - Project Forms.
      c. Submit affidavit form prior to submitting Final Application for Payment or no later than 42 days from Substantial Completion, whichever comes first.

B. Construction Safety Training Law:
   1. Contractor and Subcontractors shall comply with the requirements of 1.04 and Section 290.220 RSMo which provides that "any Contractor for any public body for purposes of construction of public works and any Subcontractor to such Contractor shall provide a ten-hour Occupational Safety and Health Administration (OSHA) construction safety program [the program] for their on-site employees which includes a course in construction safety and health approved by OSHA or a similar program approved by the department [of labor] which is at least as stringent as an approved OSHA program, unless such employees have previously completed the required program".
   2. Contractor and Subcontractors shall require all on-site workers to complete the ten-hour training program or such employees must hold documentation of prior completion of the program.
      a. Contractor shall require every on-site worker to report to the Contractor's Project Superintendent and produce documentation of successful completion of the program upon the on-site worker's first day working on the Project Site.

b. Contractor shall maintain a log of on-site workers that includes the worker's name, worker's signature, date worker began work on Project Site, company name employing worker, and training certification number on Owner's Standard OSHA 10 Hour Construction Safety & Health Training Log Form .
c. Contractor and Subcontractors shall require all on-site workers to carry documentation of successful completion of the program at all times while working on Project Site and present the documentation to the Owner's Representative when requested.

3. Contractor and Subcontractors shall require all on-site workers who have not previously completed the program to complete the program within sixty calendar days of beginning work on the Project.
   a. Any on-site worker who cannot produce documentation of successful completion of the program as required by paragraph 1.04.B.2 of this Section shall produce documentation of successful completion of the program within twenty calendar days of the initial request to present documentation.
   b. Any on-site worker who fails to present the documentation of successful completion of the program within twenty calendar days shall be removed from the Project until such time as the on-site worker can present the documentation of successful completion of the program.
4. Contractor shall forfeit as a penalty to the Owner two thousand five hundred dollars ($2,500.00) plus one hundred dollars ($100.00) for each employee employed by the Contractor or Subcontractor for each calendar day, or portion thereof, such employee is employed without the required training.
   a. The penalty will not begin to accrue until the time period in paragraphs 1.04.3 and 1.04.3.a of this Section have elapsed.
   b. Owner will withhold and retain therefrom all sums and amounts due and owing as a result of any violation of Section 292.675 RSMo when making payments to the Contractor under the Contract.
   c. Contractor may withhold from any Subcontractor sufficient sums to cover any penalties the Owner has withheld from the Contractor resulting from the Subcontractor's failure to comply with the terms of this Section.
      1) If the Contractor has made payment to the Subcontractor without withholding, the Contractor may recover from the Subcontractor the amount of the penalty resulting from the fault of the Subcontractor in an action maintained in the circuit court in the county in which the Project is located.
5. Submittals:
   a. Owner's Standard OSHA 10 Hour Construction Safety & Health Training Log Form is in Section 006000 - Project Forms.
   b. Submit a copy of the Owner's Standard OSHA 10 Hour Construction Safety & Health Training Log required under paragraph 1.04.B.2.b of this Section prior to submitting Final Application for Payment or no later than 42 days from Substantial Completion, whichever comes first.

1.05 FEDERAL

A. Immigration Documentation:
   1. The Immigration Reform and Control Act of 1986 (“IRCA”) requires all U.S. employers to verify the employment eligibility and identity of all employees as of November 6, 1986.
      a. This includes the verification of the individual's identity and work eligibility.
      b. The IRCA makes it unlawful for United States employers to knowingly hire or continue to employ unauthorized workers.
      c. Whether the illegal employment is intentional or merely due to an oversight or lack of knowledge, the employer may still be subject to fines as defined by the Department of Homeland Security.
   2. Employer Responsibility:

a. It is the employer's responsibility to ensure that the appropriate documentation is provided to every new employee hired after November 6th, 1986.
b. There are stiff penalties for not being able to provide Form I-9 for all employees upon request.
c. The employer has the right to refuse the employee their job if they are unable to furnish the required documents.
d. There are certain exceptions as to who Form I-9 is applicable for, such as independent contractors, employees hired from employment agencies, and employees hired before November 7, 1986.

3. Penalties for non compliance with Form I-9:
   a. Employers who fail to properly complete, retain, or make I-9 Forms available for inspection, face fines ranging from one hundred dollars ($100.00) to one thousand one hundred dollars ($1,100.00) per individual I-9.
   b. For employers who knowingly hire or knowingly continue to employ unauthorized workers, civil penalties range from two hundred fifty dollars ($250.00) to eleven thousand dollars ($11,000.00) per violation.
   c. For employers engaging in a pattern or practice of knowingly hiring or continuing to employ unauthorized workers, criminal penalties can be as much as three thousand dollars ($3,000.00) per unauthorized employee and/or 6 months of imprisonment.
4. Employee Responsibility:
   a. Even though the employer is responsible for providing a newly hired employee with Form I-9, the new employee must still complete Section 1 of Form I-9 by the end of the first day of work to be in compliance with the IRCA.
   b. In the event that the company is not aware of this legal requirement, it is strongly recommended that any new employee provide the employer with Form I-9 to ensure that his or her new workplace is in compliance with federal regulations.
5. Genuineness of work eligibility and identity documents:
   a. The employer must review the genuineness of the documents provided the employee. Employers may encounter the following two scenarios:
      1) A document accepted is not genuine
      2) The document accepted is genuine but does not belong to the person that provided it
   b. The employer can refuse to accept a document that does not appear to be genuine.
   c. If the prospective new employee cannot provide an acceptable document, he or she should not be allowed to continue to work.
6. Submittals:
   a. Contractor and Subcontractors shall submit a letter on their respective company letterhead, signed by authorized representative of the Contractor or Subcontractor is in compliance with the IRCA and that I-9 forms and supporting documentation are on file as required.
   b. Submit certification within 28 days from Notice to Proceed date but prior to beginning the Work on Project Site.

B. Refrigerant Management:
   1. Under Section 608 of the CAA, EPA has established regulations (40 CFR Part 82, Subpart F) that:
      a. Require service practices that maximize recovery and recycling of ozone-depleting substances (both chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs) and their blends) during the servicing and disposal of air-conditioning and refrigeration equipment.
      b. Set certification requirements for refrigerant recycling and recovery equipment, technicians, and refrigerant reclaimers.
      c. Restrict the sale of refrigerant to certified technicians.

d. Require persons servicing or disposing of air-conditioning and refrigeration equipment to certify to EPA that they have acquired refrigerant recovery and/or recycling equipment and are complying with the requirements of the rule.
e. Require the repair of substantial leaks in air-conditioning and refrigeration equipment with a refrigerant charge greater than 50 pounds.
f. Establish safe disposal requirements to ensure removal of refrigerants from goods that enter the waste stream with the charge intact (e.g., motor vehicle air conditioners, home refrigerators, and room air conditioners).

2. Contractor shall complete an Owner's Standard Contractor Information and Licensing Input Form and identify all technicians that will work on equipment that uses a refrigerant.
   a. All technicians must carry a “Universal” class refrigerant technician license.
   b. Photocopies of each technician's license shall be attached to the Owner's Standard Contractor Information and Licensing Input Form.
3. Contractor shall complete an Owner's Standard Equipment Removal/Installation Input Form for each piece of equipment that uses a refrigerant removed as part of the Work.
4. Contractor shall complete an Owner's Standard Equipment Removal/Installation Input Form for each piece of equipment that uses a refrigerant installed as part of the Work.
5. Contractor shall complete an Owner's Standard Service Order Form for each removal or addition of refrigerant for each piece of equipment.
6. Disposition of Refrigerant:
   a. Contractor shall turn over all removed refrigerant to the Owner in containers conforming to DOT and EPA requirements and in good condition.
   b. Refrigerant containers shall be tagged with the name of the Contractor, the Owner's Project number, the Owner's equipment number, and the type of refrigerant in the container.
   c. Refrigerant will remain the property of the Owner.
   d. The Owner will contact the Contractor after refrigerant is transferred to Owner's storage containers to arrange time for Contractor to retrieve Contractor's refrigerant containers.
   e. Deliver refrigerant containers to the Owner at the District Operations Building, 363 North Woods Mill Road, Chesterfield, Missouri 63017, between the hours of 8:00 a.m. and 3:00 p.m. Monday through Friday.
   f. Notify Owner forty-eight hours in advance of delivery; obtain receipt from Owner at time of delivery.
7. Submittals:
   a. Contractor's transmittal form documenting delivery date, type of refrigerant, and quantity of refrigerant delivered to Owner.
   b. The following forms to be used are in Section 006000 - Project Forms:
      1) Owner's Standard Contractor Information and Licensing Input Form: submit within 28 days from Notice to Proceed date but prior to beginning the Work on Project Site.
      2) Owner's Standard Equipment Installation/Removal Input Form: submit all equipment forms as one submittal package prior to Substantial Completion date.
      3) Owner's Standard Service Order Form: submit all service order forms for removing, addiing, or accidental venting of refrigerant as one submittal package prior to Substantial Completion date.

1.06 RELATED REQUIREMENTS

A. Section 014000 - Quality Requirements.

1.07 QUALITY ASSURANCE

A. Contractor's Designer Qualifications: Refer to Section - 014000 - Quality Requirements.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 014100

Missouri
Division of Labor Standards
WAGE AND HOUR SECTION

MIKE KEHOE, Governor

Annual Wage Order No. 33

Section 100
ST. LOUIS COUNTY

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by
Logan Hobbs, Director
Division of Labor Standards

Filed With Secretary of State: **March 10, 2026**

Last Date Objections May Be Filed: **April 9, 2026**

Prepared by Missouri Department of Labor and Industrial Relations

ST. LOUIS COUNTY

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Asbestos Worker	$72.26
Boilermaker	$44.93*
Bricklayer - Stone Mason	$65.89
Carpenter	$69.38
Lather	
Linoleum Layers & Cutter	
Millwright	
Pile Driver	
Cement Mason	$61.40
Plasterer	
Communication Technician	$67.84
Electrician (Inside Wireman)	$79.41
Electrician (Outside Lineman)	$44.93*
Outside - Groundman	
Outside - Groundman Tree Trimmer	
Outside - Lineman Operator	
Outside - Lineman Tree Trimmer	
Elevator Constructor	$106.30
Glazier	$71.63
Iron Worker	$75.80
Laborer	$58.92
Laborer - First Semi-Skilled	
Laborer - General	
Laborer - Second Semi-Skilled	
Laborer - Skilled	
Mason	$57.31
Marble Finisher	
Marble Mason	
Terrazzo Finisher	
Terrazzo Worker	
Tile Finisher	
Tile Setter	
Operating Engineer	$76.62
Operating Engineer - Group I	
Operating Engineer - Group II	
Operating Engineer - Group III	
Operating Engineer - Group III - A	
Operating Engineer - Group IV	
Operating Engineer - Group V	
Painter	$57.67
Plumber	$83.99
Pipe Fitter	
Roofer/WaterProofer	$62.13
Sheet Metal Worker	$78.63
Sprinkler Fitter - Fire Protection	$88.12
Truck Driver	$44.93*
Truck Control Service Driver	
Truck Driver, Teamsters Group I	
Truck Driver, Teamsters Group II	
Truck Driver, Teamsters Group III	
Truck Driver, Teamsters Group IV	

*** The Division of Labor Standards received fewer than 1,000 reportable hours for this occupational title. The public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.**

****The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title as defined in RSMo Section 290.210.**

ST. LOUIS COUNTY

OCCUPATIONAL TITLE	**Prevailing Hourly Rate
Carpenter	$70.28
Millwright	
Pile Driver	
Electrician (Outside Lineman)	$77.51
Outside - Groundman	
Outside - Groundman Tree Trimmer	
Outside - Lineman Operator	
Outside - Lineman Tree Trimmer	
Laborer	$59.45
Laborer - General	
Laborer - Skilled	
Operating Engineer	$76.52
Operating Engineer - Group I	
Operating Engineer - Group II	
Operating Engineer - Group III	
Operating Engineer - Group IV	
Truck Driver	$40.45
Truck Control Service Driver	
Truck Driver, Teamsters Group I	
Truck Driver, Teamsters Group II	
Truck Driver, Teamsters Group III	
Truck Driver, Teamsters Group IV	

Use Heavy Construction Rates on Highway and Heavy construction in accordance iwth the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title shown on the Building Construction Rate Sheet.

***The Division of Labor Standards received fewer than 1,000 reportable hours for this occupational title. Public works contracting minimum wage is established for this occupational title using data provided by Missouri Economic Research and Information Center.**

****The Prevailing Hourly Rate includes any applicable fringe benefit amounts for each occupational title.**

OVERTIME
and
HOLIDAYS

OVERTIME

For all work performed on a Sunday or a holiday, not less than twice (2x) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work.

For all overtime work performed, not less than one and one-half (1½) the prevailing hourly rate of wages for work of a similar character in the locality in which the work is performed or the public works contracting minimum wage, whichever is applicable, shall be paid to all workers employed by or on behalf of any public body engaged in the construction of public works, exclusive of maintenance work or contractual obligation. For purposes of this subdivision, **"overtime work"** shall include work that exceeds ten hours in one day and work in excess of forty hours in one calendar week; and

A thirty-minute lunch period on each calendar day shall be allowed for each worker on a public works project, provided that such time shall not be considered as time worked.

HOLIDAYS

January first;
The last Monday in May;
July fourth;
The first Monday in September;
November eleventh;
The fourth Thursday in November; and
December twenty-fifth;

If any holiday falls on a Sunday, the following Monday shall be considered a holiday.

SECTION 014113
ASBESTOS ABATEMENT CODES, REGULATIONS AND STANDARDS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Summary.

B. Codes and regulations.

C. Standards.

D. EPA guidance documents.

E. Notices.

F. Posting and filing of regulations.

G. Submittals related to regulatory requirements.

1.02 SUMMARY

A. This section sets forth governmental regulations and industry standards which are included and incorporated herein by reference and made a part of the specification. This section also sets forth those notices and permits which are known to the Owner and which either must be applied for and received, or which must be given to governmental agencies before start of work.

B. Requirements include adherence to work practices and procedures set forth in applicable codes, regulations and standards.

C. Requirements include obtaining permits, licenses, inspections, releases and similar documentation, as well as payments, statements and similar requirements associated with codes, regulations, and standards.

1.03 CODES AND REGULATIONS

A. General Applicability of Codes and Regulations, and Standards: Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, all applicable codes, regulations, and standards have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound herewith.

B. Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State, and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable Federal, State, and local regulations. The Contractor shall hold the Owner and Owner's Representative harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees, or his subcontractors.

C. Federal Requirements: Which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:
   1. OSHA: U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA), including but not limited to:
      a. Asbestos 29 CFR 1910.1001 and 29 CFR 1926.1101
      b. Respiratory Protection 29 CFR 134
      c. Access to Employee Exposure and Medical Records 29 CFR 20
      d. Hazard Communication 29 CFR 1910.1200
      e. Specifications for Accident Prevention Signs and Tags 29 CFR 1910.145
   2. DOT: U. S. Department of Transportation, including but not limited to:

a. Hazardous Substances 49 CFR 171 and 172

3. EPA: U. S. Environmental Protection Agency (EPA), including but not limited to:
   a. Asbestos Abatement Projects; Worker Protection Rule 40 CFR 763, Sub-part G
   b. Asbestos Hazard Emergency Response Act (AHERA) Regulation Asbestos Containing Materials in Schools Final Rule & Notice 40 CFR 763, Sub-part E
   c. Training Requirements of (AHERA) Regulation Asbestos Containing Materials in Schools Final Rule & Notice 40 CFR 763, Sub-part E, Appendix C
   d. National Emission Standard for Hazardous Air Pollutants (NESHAP) National Emission Standard for Asbestos 40 CFR 61, Sub-part A and M

D. State Requirements: Which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:
   1. Missouri Department of Natural Resources
      a. Air pollution Control Program Asbestos Abatement Projects Registration, Notification, and Performance Requirements10 CSR 10-6

E. Local Requirements: Abide by all local requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials.
   1. Saint Louis County
      a. Air Pollution Control Code Section 612.530.

1.04 STANDARDS

A. General Applicability of Standards: Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies are bound herewith.

B. Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all standards pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor shall hold the Owner and Owner's Representative harmless for failure to comply with any applicable standard on the part of himself, his employees, or his subcontractors.

C. Standards: Which apply to asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:
   1. American National Standards Institute (ANSI), 1430 Broadway, New York, NY 10018, telephone(212)354-3300
      a. Fundamentals Governing the Design and Operation of Local Exhaust Systems Publication Z9.2-79
      b. Practices for Respiratory Protection Publication Z88.2-80
   2. American Society for Testing and Materials (ASTM), 1916 Race Street, Philadelphia, PA 19103, telephone(215)299-5400
      a. Safety and Health Requirements Relating to Occupational Exposure to Asbestos E 849-82
      b. Standard Practice for Visual Inspection of Asbestos Abatement Projects E 1368-90
      c. Specification for Encapsulants for Friable Asbestos Containing Building Materials Proposal P-189

1.05 EPA GUIDANCE DOCUMENTS

A. EPA Guidance Documents: Discuss asbestos abatement work or hauling and disposal of asbestos waste materials listed below for the Contractor's information only. These documents do not describe the work and are not a part of the work of this contract.

B. Guidance for Controlling Asbestos-Containing Materials in Buildings (Purple Book) EPA 560/5-85-024

C. Evaluation of the EPA Asbestos-in-Schools Identification and Notification Rule. EPA 560/5-84-005.

D. Asbestos in Buildings: Guidance for Service and Maintenance Personnel. EPA 560/5-85-018.

E. Asbestos Waste Management Guidance. EPA 530-SW-85-007.

F. Managing Asbestos in Place. A Building Owner's Guide to Operations and Maintenance Programs for Asbestos-Containing Materials. EPA 20T-2003

G. A Guide to Respiratory Protection for the Asbestos Abatement Industry. EPA-560-OPTS-86-001

1.06 NOTICES

A. U.S. Environmental Protection Agency:
   1. Send Written Notification as required by USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) Asbestos Regulations (40 CFR 61, Subpart M) to the regional Asbestos NESHAP Contact at least 10 days prior to beginning any work on asbestos-containing materials. Send notification to the following address:
      a. REGION 7:
         Asbestos NESHAP Contact
         Air & Waste Management Division
         USEPA
         726 Minnesota Avenue
         Kansas City, KS 66101
         (913) 236-2576
   2. Notification: Complete the notification form provided in 40 CFR 61 and send to the NESHAP contact.

B. State and Local Agencies:
   1. Notification: Send written notification as required by state and local regulations prior to beginning any work on asbestos-containing materials.
   2. Missouri Department of Natural Resources:
      a. Air Pollution Control Program
         P.O. Box 176
         Jefferson City, Missouri 65102
         (573) 751-4817
   3. Saint Louis County:
      a. Department of Health
         6121 North Hanley Road
         Berkeley, Missouri 63134
         (314) 615-8924
   4. Permits and licenses: Obtain and maintain current permits and licenses as required by applicable state or local jurisdictions for the removal, transporting, disposal or other regulated activity relative to the work of this contract.

1.07 POSTING AND FILING OF REGULATIONS

A. Posting and Filing of Regulations: Post all notices required by applicable federal, state and local regulations. Maintain at least one (1) copy of applicable federal, state and local regulations and standard.

1.08 SUBMITTALS RELATED TO REGULATORY REQUIREMENTS

A. Before the Start of Work: Submit the following to the Owner for review. No work shall begin until these submittals are provided.

B. Permits, Licenses, and Certificates: For the Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receiptsfor fee payments, judgments, and similar documents, correspondence and records established in conjunction with compliance with standards and regulations bearing upon performance of the Work including:
   1. Notices: Submit notices required by federal, state and local regulations together with proof of timely transmittal to agency requiring the notice.
   2. Permits: Submit copies of current valid permits required by state and local regulations.
   3. Licenses: Submit copies of all State and local licenses and permits necessary to carry out the work of this contract.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 014113

SECTION 014216
DEFINITIONS

PART 1 GENERAL

1.01 SUMMARY

A. This section supplements the definitions contained in the General Conditions.

B. Other definitions are included in individual specification sections.

1.02 DEFINITIONS

A. Contract: Same as Agreement.

B. Furnish: To supply, deliver, unload, and inspect for damage.

C. Install: To unpack, assemble, erect, apply, place, finish, cure, protect, clean, start up, and make ready for use.

D. Product: Material, machinery, components, equipment, fixtures, and systems forming the work result. Not materials or equipment used for preparation, fabrication, conveying, or erection and not incorporated into the work result. Products may be new, never before used, or re-used materials or equipment.

E. Project Manual: The book-sized volume that includes the procurement requirements (if any), the contracting requirements, and the specifications.

F. Provide: To furnish and install.

G. Supply: Same as Furnish.

H. Other Secification Sections

1. Approve: The term "approved," where used in conjunction with the Owner's Representative's action on the Contractor's submittals, applications, and requests, is limited to the responsibilities and duties of the Architect stated in General and Supplementary Conditions. Such approval shall not release the Contractor from responsibility to fulfill Contract Document requirements, unless otherwise provided in the Contract Documents.
2. Directed: Terms such as "directed", "requested", "authorized", "selected", "approved", "required", and "permitted" mean "directed by the Owner's Representative", "requested by the "Owner's Representative", and similar phrases. However, no implied meaning shall be interpreted to extend the Owner's Representative's responsibility into the Contractor's area of construction supervision.
3. Furnish: The term "furnish" is used to mean, "supply and deliver to the project site, ready for unloading, unpacking, assembly, installation, and similar operations."
4. Foreman: This is the Contractor's Representative at the work site. This person will generally be the Competent Person required by OSHA in 29 CFR 1926.
5. General Superintendent: This is the Contractor's Representative supervising multiple project sites or on large scale project. This person may be the Competent Person required by OSHA in 29 CFR 1926.
6. Indicated: This term refers to graphic representations, notes or schedules on the Drawings, or other Paragraphs or Schedules in Specifications, and similar requirements in Contract Documents. Where terms such as "shown," "noted," "scheduled," and "specified" are used, it is to help locate the reference; no limitation on location is intended except as specifically noted.
7. Install: The term "install" is used to describe operations at project site including the actual "unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations."

8. Installer: An "installer" is an entity engaged by the Contractor, either as an employee, subcontractor or sub subcontractor for performance of a particular construction activity, including installation, erection, application and similar operations. Installers are required to be experienced in the operations they are engaged to perform.
9. Owner's Representative: This is the entity described as the "Architect" in AIA Document A201 "General Conditions of the Contract for Construction." All references to Architect or Engineer in the Contract Documents in all cases refer to the Owner's Representative. The Owner's Representative will represent the Owner during construction and until final payment is due. The Owner's Representative will advise and consult with the Owner. The Owner's instructions to the Contractor will be forwarded through the Owner's Representative.
10. Project Administrator: This is the entity described as the "Project Representative" in AIA Document A201 "General Conditions of the Contract for Construction," or is the entity described as "Engineer" in Engineers Joint Contract Document Committee (EJCDC) Document 1910-8 "Standard General Conditions of the Construction Contract." The Project Administrator is a full time representative of the Owner at the job site with authority to stop the work upon verbal order if requirements of the Contract Documents are not met, or if in the sole judgment of the Project Administrator, Owner's Representative, Owner, the interests of the Owner, safety of any person or the Owner's property are jeopardized by the work. The Project Administrator is different from the position of Owner's Representative as used in these documents, the latter having more limited authority in general and specifically not having authority to stop the work.
11. Project Site is the space available to the Contractor for performance of the work, either exclusively or in conjunction with others performing other construction as part of the project.
12. Provide: The term "provide" means "to furnish and install, complete and ready for the intended use."
13. Regulation: The term "Regulations" includes laws, statutes, ordinances, patents, royalties and lawful orders issued by authorities having jurisdiction, as well as rules, conventions and agreements within the construction industry that control performance of the Work, whether they are lawfully imposed by authorities having jurisdiction or not.
14. Testing Laboratories: A "testing laboratory" is an independent entity engaged to perform specific inspections or tests, either at the project site or elsewhere, and to report on, and, if required, to interpret, results of those inspections or tests.+

1.03 ASSIGNMENT OF SPECIALISTS

A. This Specification requires that certain specific construction activities shall be performed by specialists who are recognized experts in the operations to be performed. The specialists must be engaged for those activities, and the assignments are requirements over which the Contractor has no choice or option. Nevertheless, the ultimate responsibility for fulfilling Contract requirements remains with the Contractor.

B. This requirement should not be interpreted to conflict with enforcement of building codes or regulations governing the work. It is also not intended to interfere with local trade union jurisdictional settlements and similar conventions.

C. Trades: Use of titles such as "carpentry" is not intended to imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to tradespersons of the corresponding generic name.

1.04 INDUSTRY STANDARDS

A. Applicability of Standards: Except where Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into Contract Documents. Such standards are made a part of the Contract Documents by reference. Individual Sections indicate which codes and standards the Contractor must keep available at the Project Site for reference.

B. Referenced industry standards take precedence over standards that are not referenced but recognized in the construction industry as applicable.

C. Unreferenced industry standards are not directly applicable to the work, except as a general requirement of whether the work complies with recognized construction industry standards.

D. Publication Dates: Where compliance with an industry standard is required, comply with standard in effect as of date of execution of the work.

E. Updated Standards: At the request of the Owner, Contractor may submit a Change Order proposal where applicable code or standard has been revised and reissued after the date of the Contract Documents and before performance of Work affected. The Owner will decide whether to issue a Change Order to proceed with the updated standard.

F. Conflicting Requirements: Where compliance with two or more standards is specified, and they establish different or conflicting requirements for minimum quantities or quality levels, the most stringent requirement will be enforced, unless the Contract Documents indicate otherwise. Refer requirements that are different, but apparently equal, and uncertainties as to which quality level is more stringent to the Owner for a decision before proceeding.

G. Minimum Quantities or Quality Levels: In every instance the quantity or quality level shown or specified shall be the minimum to be provided or performed. The actual installation may comply exactly, within specified tolerances, with the minimum quantity or quality specified, or it may exceed that minimum within reasonable limits. In complying with these requirements, indicated numeric values are minimum or maximum values, as noted, as appropriate for the context of the requirements. Refer instances of uncertainty to the Owner for decision before proceeding.

H. Copies of Standards: Each entity engaged in construction on the Project is required to be familiar with industry standards applicable to that entities' construction activity. Copies of applicable standards are not bound with the Contract Documents.

I. Where copies of standards are needed for performance of a required construction activity, the Contractor shall obtain copies directly from the publication source.

J. Although copies of standards needed for enforcement of requirements may be part of required submittals, the Owner reserves the right to require the Contractor to submit additional copies as necessary for enforcement of requirements.

K. Abbreviations and Names: Trade association names and titles of general standards are frequently abbreviated. Where acronyms or abbreviations are used in the Specifications or other Contract Documents they mean the recognized name of the trade association, standards generating organization, authority having jurisdiction or other entity applicable to the context of the text provision. Refer to the "Encyclopedia of Associations," published by Gale Research Co., available in most libraries.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 014216

SECTION 014529
AIR MONITORING TEST LABORATORY SERVICES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Air Monitoring: during work area clearance is described in 017433 - Work Area Clearance.

1.02 DESCRIPTION OF THE WORK

A. This section describes air monitoring carried out by the Owner to verify that the building beyond the work area and the outside environment remains uncontaminated. This section also sets forth airborne fiber levels both inside and outside the work area as action levels, and describes the action required by the Contractor if an action level is met or exceeded.

B. Air monitoring required by OSHA is work of the Contractor and is not covered in this section.

1.03 AIR MONITORING

A. Work Area Isolation: The purpose of the Owner's air monitoring is to detect faults in the work area isolation such as:
   1. Contamination of the building outside of the work area with airborne asbestos fibers.
   2. Failure of filtration or rupture in the negative pressure system.
   3. Contamination of air outside the building envelop by airborne asbestos fibers.

B. Should any of the above occur, immediately cease asbestos abatement activities until the fault is corrected. Do not recommence work until authorized by the Owner's Representative.

C. Work Area Airborne Fiber Count: The Owner will monitor airborne fiber counts in the Work Area. The purpose of this air monitoring will be to detect airborne asbestos concentrations which may challenge the ability of the Work Area isolation procedures to protect the balance of the building or outside of the building from contamination by airborne fibers.

D. Work area clearance: To determine if the elevated airborne fiber counts encountered during abatement operations have been reduced to an acceptable level, the Owner will sample and analyze air per 017433 - Work Area Clearance.

E. The Owner will be conducting air monitoring throughout the course of the project.

1.04 STOP ACTION LEVELS

A. Inside Work Area: Maintain an airborne count in the work area of less than the Stop Action Level given below for the type of respiratory protection in use. If the fiber counts rise above this figure for any sample taken, revise work procedures to lower fiber counts. If a fiber count for any work shift or 8-hour period exceeds the Stop Action Level, stop all work except corrective action, leave negative pressure and air circulation system in operation and notify Owner's Representative. After correcting cause of high fiber levels, do not recommence work for 24 hours unless otherwise authorized, in writing, by Owner's Representative.

STOP ACTION LEVEL (f/cc)	RESPIRATOR REQUIRED	PROTECTION FACTOR
0.1	Half-face/Full-face APR	10
1.0	PAPR or Type C, continuous flow	100
5.0	Type C, pressure demand	1000

B. Outside Work Area: If any air sample taken outside of the Work Area exceeds the base line established prior to start of work, immediately and automatically stop all work except corrective action. The Owner's Representative will determine the source of the high reading and so notify the Contractor in writing.

C. If the high reading was the result of a failure of Work Area isolation measures initiate the following actions:

1. Immediately erect new critical barriers as set forth in Section 015643 Temporary Enclosures to isolate the affected area from the balance of the building. Erect Critical Barriers at the next existing structural isolation of the involved space (e.g. wall, ceiling, and floor).
2. Decontaminate the affected area in accordance with Section 017333 Project Decontamination.
3. Require that respiratory protection as set forth in Section 015736 Respiratory Protection be worn in affected area until area is cleared for reoccupancy in accordance with Section 017433 Work Area Clearance.
4. Leave Critical Barriers in place until completion of work and insure that the operation of the negative pressure system in the Work Area results in a flow of air from the balance of the building into the affected area.
5. If the exit from the clean room of the personnel decontamination unit enters the affected area, establish a decontamination facility consisting of a Shower Room and Changing Room as set forth in Section 015726 Decontamination Units at entry point to affected area.
6. After Certification of Visual Inspection in the Work Area, remove critical barriers separating the work area from the affected area. Final air samples will be taken within the entire area as set forth in Section 017433 Work Area Clearance.

D. If the high reading was the result of other causes, initiate corrective action as determined by the Owner's Representative.

E. Effect on Guaranteed Maximum Price
1. Complete corrective work with no change in the Guaranteed Maximum Price if high airborne fiber counts were caused by Contractor's activities.
2. The Guaranteed Maximum Price will be adjusted for additional work caused by high airborne fiber counts beyond the Contractor's control.

1.05

A. The following methods will be used by the Owner in analyzing filters used to collect air samples. The filters used shall be in accordance with the referenced methods.

B. Samples collected for PCM analysis shall be analyzed by NIOSH 7400 method, most recent method.

C. Samples collected for TEM analysis shall be analyzed by the method set forth in the AHERA Regulations, 40 CFR 763, Appendix A.

1.06 SAMPLE VOLUMES

A. General: The number and volume of air samples taken by the Owner will be in accordance with the following schedule. Sample volumes given may vary depending upon the analytical method used.

1.07 SCHEDULE OF AIR SAMPLES

A. Sample cassettes: Samples will be collected on 25 mm. cassettes with 50 mm. extension cowl as follows:
1. PCM: 0.8 micrometer mixed cellulose ester.
2. TEM: 0.45 micrometer mixed cellulose ester

B. Baseline:
1. Before Start of Work: The Owner will secure the following Air Samples to establish a base line before start of work.

LOCATION SAMPLED	NUMBER OF SAMPLES MINIMUM	MINIMUMVOLUME (LITERS)	RATE LPM
Each Work Area	5 for up to 5000 sq. ft.; one extra per each	1,200	1-12

	additional5000 sq. ft.		

C. Daily:
1. From start of work of Section 015643 Temporary Enclosures through the work of Section 017333 Project Decontamination, the Owner may be taking the following samples on a daily basis.

LOCATION SAMPLED	NUMBER OF SAMPLES	MINIMUM VOLUME (LITERS)*	RATE (LPM)
Each Work Area	2/shift	400	1-12
Outside Each Work Area adjacent to occupied space or space which will be occupied later	1	1,200	1-12
Clean Room	1	1,200	1-12
Equipment Decontamination	1	1,200	1-12
Output, Negative Pressure System	1	1,200	1-12

*or as required by conditions. Lower volumes required by time constraints or filter loading will raise the detection limit, reducing sampling sensitivity.

D. Additional samples may be taken at Owner's discretion. If airborne fiber counts exceed allowed limits, additional samples will be taken as necessary to monitor fiber levels.

1.08 LABORATORY TESTING

A. The services of a testing laboratory will be employed by the Owner to obtain air samples as indicated and to perform laboratory analyses of the air samples. A technician will obtain samples daily. Samples will either be analyzed on site at a suitable location as provided by the Owner or will be sent overnight on a daily basis so that verbal reports on air samples can be obtained within 24 hours of receipt by the laboratory.

B. If requested by the Contractor, the Owner's Representative may request results of clearance sampling within 24 hours of obtaining samples; any additional costs for such requests shall be incurred by the Contractor. The Contractor will have access to all air monitoring tests and results.

C. A complete record of all air monitoring and results will be furnished to the Owner.

D. Written Reports: Of all air monitoring tests will be posted at the job site on a daily basis.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PERSONAL EXPOSURE MONITORING:

A. Owner will not be performing air monitoring to meet Contractor's OSHA requirements for personnel sampling or any other purpose.

END OF SECTION 014529

SECTION 015000
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Dewatering
B. Temporary utilities.
C. Temporary telecommunications services.
D. Temporary sanitary facilities.
E. Temporary Controls: Barriers and enclosures.
F. Security requirements.
G. Vehicular access and parking.
H. Waste removal facilities and services.
I. Project identification sign.
J. Field offices.

1.02 RELATED REQUIREMENTS

A. Section 013553 - Security Procedures
B. Section 015100 - Temporary Utilities.
C. Section 015213 - Field Offices and Sheds.
D. Section 015500 - Vehicular Access and Parking.
E. Section 015813 - Temporary Project Signage.

1.03 REFERENCE STANDARDS

A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
B. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.

1.04 DEWATERING

A. Provide temporary means and methods for dewatering all temporary facilities and controls.
B. Maintain temporary facilities in operable condition.

1.05 TEMPORARY UTILITIES - SEE SECTION 015100

1.06 TELECOMMUNICATIONS SERVICES

A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization.
B. Telecommunications services shall include:
    1. Windows-based personal computer dedicated to project telecommunications, with necessary software and printer.
    2. Telephone Land Lines: One line, minimum; one handset per line.
        a. Land line requirement will be waived if Contractor's Superintendent has dedicated cellular telephone.
    3. Internet Connections: Minimum of one; DSL modem or faster.
        a. If Contractor is allowed to use Owner's existing facility for a field office, then Contractor may access Owner's internet connection at no cost to Contractor.

1.07 TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.

B. Maintain daily in clean and sanitary condition.

1.08 BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.

B. Provide barricades and covered walkways required by governing authorities for public rights-of-way and for public access to existing building.

C. Provide protection for plants designated to remain. Replace damaged plants.

D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.09 INTERIOR ENCLOSURES

A. Provide temporary partitions and ceilings as indicated to separate work areas from Owner-occupied areas, to prevent penetration of dust and moisture into Owner-occupied areas, and to prevent damage to existing materials and equipment.

B. Construction: Framing and plywood or gypsum board sheet materials with closed joints and sealed edges at intersections with existing surfaces as indicated on drawings.
   1. Maximum flame spread rating of 75 in accordance with ASTM E84.

1.10 SECURITY - SEE SECTION 013553

1.11 VEHICULAR ACCESS AND PARKING - SEE SECTION 015500

1.12 WASTE REMOVAL

A. See Section 017419 - Construction Waste Management and Disposal, for additional requirements.

B. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.

C. Provide containers with lids. Remove trash from site periodically as containers are filled.

D. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.

E. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

1.13 PROJECT IDENTIFICATION

A. Provide project identification sign of design and construction indicated on drawings.

B. Erect on site at location indicated.

C. No signs are allowed without Owner permission except those required by law.

1.14 FIELD OFFICES - SEE SECTION 015213

1.15 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

A. Remove temporary utilities, equipment, facilities, materials, prior to Date of Substantial Completion inspection.

B. Remove underground installations to a minimum depth of 2 feet. Grade site as indicated.

C. Clean and repair damage caused by installation or use of temporary work.

D. Restore existing facilities used during construction to original condition.

E. Restore new permanent facilities used during construction to specified condition.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 015000

SECTION 015100
TEMPORARY UTILITIES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Temporary Utilities: Electricity, lighting, heat, ventilation, and water.

1.02 RELATED REQUIREMENTS

A. Section 015000 - Temporary Facilities and Controls:
   1. Temporary telecommunications services for administrative purposes.
   2. Temporary sanitary facilities required by law.

1.03 REFERENCE STANDARDS

A. 29 CFR 1926 - Safety and Health Regulations for Construction.

1.04 TEMPORARY ELECTRICITY

A. Cost: By Owner.

B. Connect to Owner's existing power service.
   1. Do not disrupt Owner's need for continuous service.
   2. Exercise measures to conserve energy.

C. Provide temporary electric feeder from existing building electrical service at location as directed.

D. Power Service Characteristics: ____ volt, ____ ampere, three phase, four wire.

E. Complement existing power service capacity and characteristics as required.

F. Provide power outlets for construction operations, with branch wiring and distribution boxes located at each floor. Provide flexible power cords as required.

G. Provide main service disconnect and over-current protection at convenient location .

H. Permanent convenience receptacles may be utilized during construction.

I. Provide adequate distribution equipment, wiring, and outlets to provide single phase branch circuits for power and lighting.

1.05 TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

A. Provide and maintain LED, compact fluorescent, or high-intensity discharge lighting as suitable for the application for construction operations in accordance with requirements of 29 CFR 1926 and authorities having jurisdiction.

B. Provide and maintain 1 watt/sq ft lighting to exterior staging and storage areas after dark for security purposes.

C. Provide and maintain 0.25 watt/sq ft H.I.D. lighting to interior work areas after dark for security purposes.

D. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps as required.

E. Maintain lighting and provide routine repairs.

F. Permanent building lighting may be utilized during construction.

1.06 TEMPORARY HEATING

A. Cost of Energy: By Owner.

B. Provide heating devices and heat as needed to maintain specified conditions for construction operations.

C. Maintain minimum ambient temperature of 50 degrees F in areas where construction is in progress, unless indicated otherwise in specifications.

D. Owner's existing heat plant may be used.
   1. Exercise measures to conserve energy.
   2. Enclose building prior to activating temporary heat.

E. Prior to operation of permanent equipment for temporary heating purposes, verify that installation is approved for operation, equipment is lubricated and filters are in place. Provide and pay for operation, maintenance, and regular replacement of filters and worn or consumed parts.

1.07 TEMPORARY COOLING

A. Cost of Energy: By Owner.

B. Provide cooling devices and cooling as needed to maintain specified conditions for construction operations.

C. Maintain maximum ambient temperature of 80 degrees F in areas where construction is in progress, unless indicated otherwise in specifications.

D. Owner's existing cooling plant may be used.
   1. Exercise measures to conserve energy.
   2. Enclose building prior to activating temporary cooling.
   3. Provide separate metering and reimburse Owner for cost of energy used.

E. Prior to operation of permanent equipment for temporary cooling purposes, verify that installation is approved for operation, equipment is lubricated and filters are in place. Provide and pay for operation, maintenance, and regular replacement of filters and worn or consumed parts.

1.08 TEMPORARY VENTILATION

A. Utilize existing ventilation equipment. Extend and supplement equipment with temporary fan units as required to maintain clean air for construction operations.

1.09 TEMPORARY WATER SERVICE

A. Cost of Water Used: By Owner.

B. Provide and maintain suitable quality water service for construction operations at time of project mobilization.

C. Connect to existing water source.
   1. Exercise measures to conserve water.
   2. Provide separate metering and reimburse Owner for cost of water used.

D. Extend branch piping with outlets located so water is available by hoses with threaded connections. Provide temporary pipe insulation to prevent freezing.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 015100

SECTION 015139
TEMPORARY NEGATIVE PRESSURE AIR CIRCULATION SYSTEM

PART 1 GENERAL

1.01 PATENT RIGHTS

A. Negative pressure machines and the process of setting up a negative pressure space may be subject to patent rights (e.g. Patent No. 4,604,111).

B. Contractor shall pay all license fees and royalties and assume all costs incidental to the use, in the performance of the work or the incorporation into the work of any invention, design, process, product or device which is the subject of any rights, including but not limited to patents or copyrights, held by others.

C. Contractor shall defend, indemnify and hold harmless Owner and Owner's Environmental Consultant and anyone directly or indirectly employed by either of them from and against any and all claims, damages, losses and expenses (including attorney's fees and court and arbitration expenses) arising out of any alleged infringement of such rights of others.

1.02 MONITORING

A. Continuously monitor and record the pressure differential between the work area and the outside of the work area with a monitoring device incorporating a continuous recorder.

B. For containments greater than 20,000 square feet, two monitoring devices, with recorder, shall be required.

C. Meters shall be equipped with a warning buzzer which will sound if pressure differential drops below -0.02 inches of water.

D. The monitoring device(s) shall produce a continuous printout of the pressure differential between the work area and the outside of the work area.

E. The Contractor shall date, initial and indicate the beginning and the end of each shift on the printout.

F. Maintain records of pressure differential in the project data binder.

1.03 SUBMITTALS

A. Before the Start of Work: Submit the following to the Owner for review. No work shall begin until these submittals provided.
   1. Number of HEPA filtered fan units required and the calculations necessary to determine the number of machines.
   2. Location of the machines in the Work Area.
   3. Manufacturer's product data on the HEPA filtered fan units to be used.
   4. Description of work practices to insure that airborne fibers travel away from workers.
   5. Manufacturer's product data on equipment used to monitor pressure differential between inside and outside of Work Area.

1.04 QUALITY ASSURANCE

A. Monitor pressure differential at Personnel and Equipment Decontamination Units with a differential pressure meter equipped with a continuous recorder.

B. Meter shall be equipped with a warning buzzer which will sound if pressure differential drops below -0.01" of water.

PART 2 PRODUCTS

2.01 HEPA FILTERED FAN UNITS

A. General: Supply the required number of HEPA filtered fan units to the site in accordance with these specifications.

B. Cabinet: Constructed of durable materials able to withstand damage from rough handling and transportation. The width of the cabinet should be less than 30 inches to fit through standard-size doorways. Provide units whose cabinets are:
   1. Factory-sealed to prevent asbestos-containing dust from being released during use, transport, or maintenance.
   2. Arranged to provide access to and replacement of all air filters from intake end.
   3. Mounted on casters or wheels.

C. Fans: Rate capacity of fan according to usable air-moving capacity under actual operating conditions.

D. HEPA Filters: Provide units whose final filter is the HEPA type with the filter media (folded into closely pleated panels) completely sealed on all edges with a structurally rigid frame.
   1. Provide units with a continuous rubber gasket located between the filter and the filter housing to form a tight seal.
   2. Provide HEPA filters that are individually tested and certified by the manufacturer to have an efficiency of not less than 99.97 percent when challenged with 0.3 um dioctylphthalate (DOP) particles when tested in accordance with Military Standard Number 282 and Army Instruction Manual 136-300-175A.
   3. Provide filters that bear a UL 586 label to indicate ability to perform under specified conditions.
   4. Provide filters that are marked with: the name of the manufacturer, serial number, air flow rating, efficiency and resistance, and the direction of test air flow.

E. Prefilters, which protect the final filter by removing the larger particles, are required to prolong the operating life of the HEPA filter. Two stages of prefiltration are required. Provide units with the following prefilters:
   1. First-stage prefilter: low-efficiency type (e.g., for particles 100 um and larger).
   2. Second-stage (or intermediate) filter: medium efficiency (e.g., effective for particles down to 5 um).

F. Provide units with prefilters and intermediate filters installed either on or in the intake grid of the unit and held in place with special housings or clamps.

G. Provide units equipped with:
   1. Magnehelic gauge or manometer to measure the pressure drop across filters and indicate when filters have become loaded and need to be changed.
   2. A table indicating the usable air-handling capacity for various static pressure readings on the Magnehelic gauge affixed near the gauge for reference, or the Magnehelic reading indicating at what point the filters should be changed, noting Cubic Feet per Minute (CFM) air delivery at that point.
   3. Elapsed time meter to show the total accumulated hours of operation.
      a. Safety and Warning Devices: Provide units with the following safety and warning devices:
      b. Electrical (or mechanical) lockout to prevent fan from operating without a HEPA filter.
   4. Automatic shutdown system to stop fan in the event of a rupture in the HEPA filter or blocked air discharge.
   5. Warning lights to indicate normal operation (green), too high a pressure drop across the filters (i.e., filter overloading) (yellow), and too low of a pressure drop (i.e., rupture in HEPA filter or obstructed discharge) (red).
   6. Audible alarm if unit shuts down due to operation of safety systems.

H. Electrical components: Provide units with electrical components approved by the National Electrical Manufacturers Association (NEMA) and Underwriter's Laboratories (UL).
   1. Each unit is to be equipped with overload protection sized for the equipment.
   2. The motor, fan, fan housing, and cabinet are to be grounded.

PART 3 EXECUTION

3.01 NEGATIVE PRESSURE SYSTEM ISOLATION

A. Isolate the Work Area from all adjacent areas or systems of the building with a pressure differential that will cause a movement of air from outside to inside at any breach in the physical isolation of the Work Area ("Negative Air").

B. Relative Pressure in Work Area: Continuously maintain the Work Area at an air pressure that is lower than that in any surrounding space in the building, or at any location in the immediate proximity outside of the building envelope. This pressure differential when measured across any physical or critical barrier must equal or exceed a static pressure of 0.02 inches of water.

C. Accomplish the pressure differential by exhausting a sufficient number of HEPA filtered fan units from the Work Area. The number of units required will depend on machine characteristics, the seal at barriers, and required air circulation. The number of units will increase with increased make-up air or leaks into the Work Area. Determine the number of units required for pressure isolation by the following procedure:
   1. Establish required air circulation in work area, personnel and equipment decontamination units. Exhaust a sufficient number of units from the work area to develop the required pressure differential.
   2. The required number of units is the number determined above plus one additional unit.

D. Vent HEPA filtered fan units to outside of building unless authorized in writing by Owner.
   1. Mount units to exhaust directly or through disposable ductwork.
   2. Use only new ductwork except for sheet metal connections and elbows.
   3. Use inflatable, disposable plastic ductwork in lengths not greater than 100 feet.
   4. Use spiral wire-reinforced flex duct in lengths not greater than 50 feet.
   5. Arrange exhaust as required to inflate duct to a rigidity sufficient to prevent flapping.

E. Isolation of elevators, stair towers, and return air intakes: Erect seals with an air space at doors to elevators and stair towers.
   1. Fabricate seal by first sealing door with duct tape and 6 mil polyethylene. Construct a barrier from ½" CDX plywood or ½" gypsum board supported by wood studs at 16" on centers.
   2. Space face of barrier a minimum of 3" from face of door.
   3. Seal barrier with 6 mil sheet plastic and duct tape.
   4. Use plywood and framing lumber that is treated to be fire resistant.

F. Isolation of return air ductwork: Return air duct work which must be kept operating is to be isolated from the Work Area.
   1. Wrap the duct with two (2) layers of 6 mil polyethylene.
   2. Seal all polyethylene seams with spray glue and duct tape.

3.02 AIR CIRCULATION IN THE WORK AREA

A. Air Circulation: For purposes of this section air circulation refers to either the introduction of outside air to the Work Area or the circulation and cleaning of air within the Work Area.

B. Determining the Air Circulation Requirements: Provide a fully operational air circulation system supplying a minimum of four (4) air changes per hour.

C. Determine Number of Units needed to achieve required air circulation according to the following procedure:
   1. Determine the volume in cubic feet of the work area by multiplying floor area by ceiling height.
   2. Determine total air circulation requirement in cubic feet per minute (CFM) for the work area by multiplying this volume by the air change rate and dividing by 60.
      a. X Number of air changes per hour

1) 60 (minutes per hour)

3. Divide the air circulation requirement (CFM) above by capacity of HEPA filtered fan unit(s) used.
4. Capacity of a unit for purposes of this section is the capacity in cubic feet per minute with fully loaded filters (pressure differential which causes loaded filter warning light to come on) in the machine's labeled operating characteristics.
5. Number of Units Needed = Air Circulation Requirement (CFM) Capacity of Unit with Loaded Filters (CFM)
    a. Add one (1) additional unit as a backup in case of equipment failure or machine shutdown for filter changing.

3.03 EXHAUST SYSTEM

A. Negative pressure isolation and air circulation in the Work Area are to be accomplished by an exhaust system as described below.

B. Exhaust all units from the Work Area to meet air circulation requirement of this section.

C. Locate fan unit(s) so that makeup air enters work area primarily through decontamination facilities and traverses Work Area as much as possible. This may be accomplished by positioning the HEPA filtered fan unit(s) at a maximum distance from the worker access opening or other makeup air sources.

D. Vent to Outside of Building, unless authorized in writing by the Owner.

E. Window Openings: Window panes which have to be removed temporarily shall be reinstalled by a qualified tradesman at the completion of the work.

F. Decontamination Units: Arrange Work Area and decontamination units so that the majority of make up air comes through the Decontamination Units. Use only personnel or equipment Decontamination Unit at any time and seal the other so that make up air passes through unit in use.

G. Supplemental Makeup Air Inlets: Provide where required for proper air flow through the Work Area in location approved by the Owner by making openings in the plastic sheeting that allow air from outside the building into the Work Area.
    1. Locate auxiliary makeup air inlets as far as possible from the fan unit(s) (e.g., on an opposite wall), off the floor (preferably near the ceiling), and away from barriers that separate the Work Area from occupied clean areas.
    2. Cover with flaps to reseal automatically if the negative pressure system should shut down for any reason.
    3. Spray flap and around opening with spray adhesive so that if flap closes meeting surfaces are both covered with adhesive.
    4. Use adhesive that forms contact bond when dry.
    5. If makeup air is coming from an asbestos-fiber-contaminated source or potentially contaminated then it should pass through a HEPA filter before entering work area.
    6. If air is contaminated with other materials it may also require filtering.
    7. If this is done, supply air fans will be necessary to overcome the resistance of the filters.
    8. A HEPA filtered fan unit may be used to accomplish this.
    9. Caution must be used to insure that work area remains under negative pressure.

3.04 AIR CIRCULATION IN DECONTAMINATION UNITS

A. Pressure Differential Isolation: Continuously maintain the pressure differential required for the work area in the:
    1. Personnel Decontamination Unit: across the Shower Room with the Equipment Room at a lower pressure than the Clean room.
    2. Equipment Decontamination Unit: Across the Holding Room with the Wash Room at a lower pressure than the Clean Room.

B. Air Circulation: Continuously maintain air circulation in Decontamination Units at same level as required for Work Area.

C. Air Movement: Arrange air circulation through the Personnel Decontamination Unit so that it produces a movement of air from the Clean Room through the Shower Room into the Equipment Room.

3.05 USE OF THE NEGATIVE AIR SYSTEM

A. General:
   1. Each unit shall be serviced by dedicated circuits with overload device.
   2. If an existing building electrical panel is being used it must have sufficient spare capacity to accommodate the load of all negative pressure units connected.
   3. Dedication of existing circuits may be accomplished by shutting down existing loads on the circuits.

B. Testing the System:
   1. Test negative pressure system before any asbestos-containing material is wetted or removed.
   2. After the Work Area has been prepared, the decontamination facility set up, and the fan unit(s) installed, start the unit(s) (one at a time).
   3. Demonstrate operation and testing of negative pressure system to Owner.

C. Demonstrate Operation of the negative pressure system to the Owner to include, but not be limited to, the following:
   1. Plastic barriers and sheeting move lightly in toward Work Area.
   2. Curtain of decontamination units move lightly in toward Work Area.
   3. There is a noticeable movement of air through the Decontamination Unit.
   4. Use smoke tube to demonstrate air movement from Clean Room through Shower Room to Equipment Room.
   5. Use smoke tubes to demonstrate a definite motion of air across all areas in which work is to be performed.

D. Modify the Negative Pressure System as necessary to demonstrate successfully the above.

E. Use of System During Abatement Operations:
   1. Start fan units before beginning work (before any asbestos-containing material is disturbed).
   2. After abatement work has begun, run units continuously to maintain constant negative pressure and air circulation until decontamination of the work area is complete.
   3. Do not turn off units at the end of the work shift or when abatement operations temporarily stop.
   4. Do not shut down negative pressure system during encapsulating procedures, unless authorized by the Owner in writing.
   5. Supply sufficient pre-filters to allow frequent changes.
   6. Start abatement work at a location farthest from the fan units and proceed toward them.
   7. If an electric power failure occurs, immediately stop all abatement work and do not resume until power is restored and fan units are operating again.
   8. At completion of abatement work, allow fan units to run as specified under Section 017333 Project Decontamination, to remove airborne fibers that may have been generated during abatement work and cleanup and to purge the Work Area with clean makeup air. The units may be required to run for a longer time after decontamination, if dry or only partially wetted asbestos material was encountered during any abatement work.

F. Dismantling the System:

1. When a final inspection and the results of final air tests indicate that the area has been decontaminated, fan units may be removed from the Work Area. Before removal from the Work Area, remove and properly dispose of pre-filter, decontaminate exterior of machine and seal intake to the machine with 6 mil polyethylene to prevent environmental contamination from the filters.

END OF SECTION 015139

SECTION 015500
VEHICULAR ACCESS AND PARKING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Access roads.

B. Parking.

C. Existing pavements and parking areas.

D. Permanent pavements and parking facilities.

E. Construction parking controls.

F. Flag persons.

G. Flares and lights.

H. Haul routes.

I. Traffic signs and signals.

J. Maintenance.

K. Removal, repair.

L. Mud from site vehicles.

1.02 RELATED REQUIREMENTS

A. Section 011010 - Project Summary - Bid Packages: For access to site, work sequence, and occupancy

B. Section 312200 - Grading: Specifications for earthwork and paving bases.

PART 2 PRODUCTS

2.01 MATERIALS

A. Temporary Construction: Contractor's option.

B. Materials for Permanent Construction: As specified in product specification sections, including earthwork, paving base, and topping.

2.02 SIGNS, SIGNALS, AND DEVICES

A. Stock Post Mounted and Wall Mounted Traffic Control and Informational Signs:

B. Traffic Control Signals: As approved by local jurisdictions.

C. Traffic Cones and Drums, Flares and Lights: As approved by local jurisdictions.

D. Flag Person Equipment: As required by local jurisdictions.

PART 3 EXECUTION

3.01 PREPARATION

A. Clear areas, provide surface and storm drainage of road, parking, area premises, and adjacent areas.

3.02 ACCESS ROADS

A. Use of existing on-site streets and driveways for construction traffic is permitted.

B. Tracked vehicles not allowed on paved areas.

C. Construct new temporary all-weather access roads from public thoroughfares to serve construction area, of a width and load bearing capacity to provide unimpeded traffic for construction purposes.

D. Construct temporary bridges and culverts to span low areas and allow unimpeded drainage.

E. Extend and relocate as work progress requires, provide detours as necessary for unimpeded traffic flow.

F. Location as approved by Architect.

G. Provide unimpeded access for emergency vehicles. Maintain 20 foot width driveways with turning space between and around combustible materials.

H. Provide and maintain access to fire hydrants and control valves free of obstructions.

3.03 PARKING

A. Use of designated areas of existing parking facilities by construction personnel is permitted.

B. Use of designated areas of new parking facilities by construction personnel is permitted.

C. Arrange for temporary parking areas to accommodate use of construction personnel.

D. When site space is not adequate, provide additional off-site parking.

E. Locate as approved by Architect.

3.04 PERMANENT PAVEMENTS AND PARKING FACILITIES

A. The base for permanent roads and parking areas may be used for construction traffic.

B. Avoid traffic loading beyond paving design capacity. Tracked vehicles not allowed.

3.05 CONSTRUCTION PARKING CONTROL

A. Control vehicular parking to prevent interference with public traffic and parking, access by emergency vehicles, and Owner's operations.

B. Monitor parking of construction personnel's vehicles. Maintain vehicular access to and through parking areas.

C. Prevent parking on or adjacent to access roads or in non-designated areas.

3.06 FLAG PERSONS

A. Provide trained and equipped flag persons to regulate traffic when construction operations or traffic encroach on public traffic lanes.

3.07 FLARES AND LIGHTS

A. Use flares and lights during hours of low visibility to delineate traffic lanes and to guide traffic.

3.08 HAUL ROUTES

A. Consult with authority having jurisdiction, establish public thoroughfares to be used for haul routes and site access.

B. Confine construction traffic to designated haul routes.

C. Provide traffic control at critical areas of haul routes to regulate traffic, to minimize interference with public traffic.

3.09 TRAFFIC SIGNS AND SIGNALS

A. At approaches to site and on site, install at crossroads, detours, parking areas, and elsewhere as needed to direct construction and affected public traffic.

B. Relocate as work progresses, to maintain effective traffic control.

3.10 MAINTENANCE

A. Maintain traffic and parking areas in a sound condition free of excavated material, construction equipment, products, mud, snow, and ice.

B. Maintain existing and new permanent paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original, or specified, condition.

3.11 REMOVAL, REPAIR

A. Remove temporary roads when permanent paving is usable.

B. Remove underground work and compacted materials to a depth of 2 feet; fill and grade site as specified.

C. Repair existing facilities damaged by use, to original condition.

D. Remove equipment and devices when no longer required.

E. Repair damage caused by installation.

F. Remove post settings to a depth of 2 feet.

3.12 MUD FROM SITE VEHICLES

A. Provide means of removing mud from vehicle wheels before entering streets.

END OF SECTION 015500

SECTION 015643
TEMPORARY ENCLOSURES

PART 1 GENERAL

1.01 SUBMITTALS

A. Before the Start of Work: Submit the following to the Owner for review. No work shall begin until these submittals provided.

B. Spray Cement: Submit following:
   1. Material Safety Data Sheet: Submit the Material Safety Data Sheet, or equivalent, in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) for spray cement material proposed for use on the work.
   2. Include a separate attachment for each sheet indicating the specific worker protective equipment proposed for use with the material indicated.

C. Signs: Submit samples of signs to be used.

PART 2 PRODUCTS

2.01 SHEET PLASTIC

A. Polyethylene Sheet: A single polyethylene film in the largest sheet size possible to minimize seams, 4 or 6 mils thick as indicated, clear, frosted, or black as indicated.

2.02 MISCELLANEOUS MATERIALS

A. Duct Tape: Provide duct tape in 2" or 3" widths as indicated, with an adhesive which is formulated to stick aggressively to sheet polyethylene.

B. Spray Cement: Provide spray adhesive in aerosol cans which is specifically formulated to stick tenaciously to sheet polyethylene.

PART 3 EXECUTION

3.01 SEQUENCE OF WORK

A. Carry out work of this section sequentially.

B. Complete each activity before proceeding to the next.

3.02 GENERAL

A. Work Area: One contiguous work location that is considered contaminated during the work, which must be isolated from the balance of the building and decontaminated at the completion of the asbestos-control work.

B. Completely isolate the Work Area from other parts of the building so as to prevent asbestos-containing dust or debris from passing beyond the isolated area.

C. Should the area beyond the Work Area(s) become contaminated with asbestos-containing dust or debris as a consequence of the work, clean those areas in accordance with the procedures indicated in 017333 - Project Decontamination. Perform all such required cleaning or decontamination at no additional cost to Owner.

D. Place all tools, scaffolding, staging, etc. necessary for the Work in the area to be isolated prior to completion of Work Area isolation.

E. Disable ventilating systems or any other system bringing air into or out of the Work Area. Disable system by disconnecting wires, removing circuit breakers, by lockable switch or other positive means that will prevent accidental premature restarting of equipment.

F. Lockout power to Work Area by switching off all breakers serving power or lighting circuits in work area.
   1. Label breakers with tape over breaker with notation "DANGER circuit being worked on". Lock panel and have all keys under control of Contractor's Superintendent or Owner.

G. Lockout power to circuits running through work area wherever possible by switching off all breakers or removing fuses serving these circuits.
   1. Label breakers with tape over breaker with notation "DANGER circuit being worked on". Lock panel and have all keys under control of Contractor's Superintendent or Owner.
   2. If circuits cannot be shut down for any reason, label at intervals 4' on center with tags reading, "DANGER live electric circuit. Electrocution hazard."
   3. Label circuits in hidden locations but which may be affected by the work in a similar manner.

H. Inspection Windows: Install inspection windows in locations shown on the plans or as directed by the Owner. Each inspection window is to have a 24" X 24" viewing area fabricated from 1/4" acrylic or polycarbonate sheet.
   1. Install window with top at 6'-6" above floor height in a manner that provides unobstructed vision from outside to inside of the Work Area.
   2. Protect window from damage from scratching, dirt or any coatings used during the work.
   3. A sufficient number of windows are to be installed to provide observation of all portions of the Work Area that can be made visible from adjacent areas.
   4. Inspection windows that open into uncontrolled area are to be covered with a removable plywood hatch secured by lock and key.
   5. Provide keys to Owner for all such locks.

3.03 EMERGENCY EXITS

A. Emergency Exits: At each existing exit door from the Work Area provide the following means for emergency exiting:
   1. Arrange exit door so that it is secure from outside the Work Area but permits exiting from the Work Area.
   2. Mark outline of door on Primary and Critical Barriers with luminescent paint at least 1" wide.
   3. Hang a razor knife on a string beside outline.
   4. Arrange Critical and Primary barriers so that they can be easily cut with one pass of razor knife.
   5. Paint words "EMERGENCY EXIT" inside outline with luminescent paint in letters at least one foot high and 2" thick.
   6. Mark arrows on poly barriers to indicate direction to exit.

3.04 CONTROL ACCESS

A. Isolate the Work Area to prevent entry by building occupants into Work Area or surrounding controlled areas.

B. Locked Access: Arrange Work Area so that the only access into Work Area is through lockable doors to personnel and equipment decontamination units.

C. Visual Barrier: Where the Work Area is immediately adjacent to or within view of occupied areas, provide a visual barrier of opaque polyethylene sheeting at least 6 mil in thickness so that the work procedures are not visible to building occupants. Where this visual barrier would block natural light, substitute frosted or woven rip-stop sheet plastic in locations approved by the Owner.

D. Provide Warning Signs at each locked door leading to Work Area reading as follows:
   1. Immediately inside door and outside critical barriers post an approximately 20“ by 14” manufactured caution sign displaying the following legend with letter sizes and styles of a visibility required by 29 CFR 1926.1101:

+
DANGER
ASBESTOS
MAY CAUSE CANCER

CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY

2. [if !vml]Provide spacing between respective lines at least equal to the height of the respective upper line.

3.05 ALTERNATE METHODS OF ENCLOSURE

A. Before proceeding beyond this point in providing Temporary Enclosures, comply with:
   1. Section 015733 Worker Protection
   2. Section 015736 Respiratory Protection
   3. Section 015726 Decontamination Units

3.06 RESPIRATORY AND WORKER PROTECTION

A. Alternate methods of containing the Work Area may be submitted to the Owner for approval in accordance with procedures set forth in 016000 - Product Requirements.

B. Before Class I work which involves the removal of more than 25 linear or 10 square feet of TSI or surfacing material is begun using an alternate method to those specified in 29 CFR 1926.1101, a copy of the required evaluation and certification must be submitted to the national office of OSHA.

C. Do not proceed with any such method(s) without prior written approval of the Owner.

3.07 CRITICAL BARRIERS

A. Completely Separate the Work Area from other portions of the building and the outside by closing all openings with two layers of polyethylene sheeting at least 6 mil in thickness, or by sealing cracks leading out of Work Area with duct tape.

B. Individually seal all ventilation openings (supply and exhaust), clocks, doorways, windows, convectors and speakers, and other openings into the Work Area with duct tape alone or with polyethylene sheeting at least 6 mil in thickness, taped securely in place with duct tape.

C. Maintain seal until all work including Project Decontamination is completed.

D. Provide Sheet Plastic barriers at least 6 mil in thickness as required to seal openings completely from the Work Area into adjacent areas.

E. Seal the perimeter of all sheet plastic barriers with duct tape or spray cement.

F. Provide Negative Pressure System per 015139 - Temporary Negative Pressure Air Circulation System.

3.08 PREPARE AREA

A. Scaffolding: If fixed scaffolding is to be used to provide access, HEPA vacuum and wet clean area prior to scaffolding installation.

B. Remove all electrical and mechanical items, such as lighting fixtures, clocks, diffusers, registers, escutcheon plates, etc. which cover any part of the surface to be worked on with the work.

C. Remove all general construction items such as cabinets, and doors, which cover the surface of the work as required to prevent interference with the work.

D. Clean, decontaminate and reinstall all such materials, upon completion of all removal work with materials, finishes, and workmanship to match existing installations before start of work.

E. Remove all general construction items such as casework, door trim, moldings, ceilings, trim, etc., which cover the surface of the work as required to prevent interference with the work.

3.09 PRIMARY BARRIER

A. Protect building and other surfaces in the Work Area from damage from water and high humidity or from contamination from asbestos-containing debris, slurry or high airborne fiber levels by covering with a primary barrier as described below.

B. Sheet Plastic: Protect surfaces in the Work Area with two (2) layers of plastic sheeting on floor and walls, or as otherwise directed on the Contract Drawings or in writing by the Owner. Perform work in the following sequence:

1. Cover Floor of Work Area with 2 individual layers of clear polyethylene sheeting, each at least 6 mil in thickness, turned up walls at least 12 inches. Form a sharp right angle bend at junction of floor and wall so that there is no radius which could be stepped on causing the wall attachment to be pulled loose. Both spray-glue and duct tape all seams in floor covering. Locate seams in top layer six feet from, or at right angles to, seams in bottom layer. Install sheeting so that top layer can be removed independently of bottom layer.
2. Cover all walls in Work Area including "Critical Barrier" sheet plastic barriers with one layer of polyethylene sheeting, at least 6 mil in thickness, mechanically supported and sealed with duct tape or spray-glue in the same manner as "Critical Barrier" sheet plastic barriers. Tape all joints including the joining with the floor covering with duct tape or as otherwise indicated on the Contract Documents or in writing by the Owner. Install sheeting so that inner layer can be removed independently of bottom layer.
3. Stairs and Ramps: Do not cover stairs or ramps with unsecured sheet plastic. Where stairs or ramps are covered with plastic, provide 3/4" exterior grade plywood treads securely held in place, over plastic.
4. Cover Carpeting with three (3) layers of polyethylene sheeting at least 6 mil in thickness. Place corrugated cardboard sheets between the top and middle layers of polyethylene.
5. Repair of Damaged Polyethylene Sheeting: Remove and replace plastic sheeting which has been damaged by removal operations or where seal has failed allowing water to seep between layers. Remove affected sheeting and wipe down entire area. Install new sheet plastic only when area is completely dry.

3.10 STOP WORK

A. If the Critical or Primary barrier falls or is breached in any manner stop the Work immediately.

B. Do not start the Work until authorized in writing by the Owner.

3.11 EXTENSION OF WORK AREA

A. Extension of Work Area: If the Critical Barrier is breached in any manner that could allow the passage of asbestos debris or airborne fibers, then add affected area to the Work Area, enclose it as required by this Section of the specification and decontaminate the affected area as described in 017333 - Project Decontamination.

3.12 EXTERIOR ENCLOSURES

A. Construct exterior enclosures as a Critical Barrier as necessary to completely enclose the work.

B. Fabricate from reinforced polyethylene sheeting and wood framing with appropriate sized lumber.

C. Attach to existing building components or brace as necessary for lateral stability.

D. Construct walls to meet all state and local regulations for construction of temporary buildings.

E. Construct to resist a wind of 30 MPH, slope ceiling to permit drainage of rain water.

END OF SECTION 015643

SECTION 015713
TEMPORARY EROSION AND SEDIMENT CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Prevention of erosion due to construction activities.

B. Prevention of sedimentation of waterways, open drainage ways, and storm and sanitary sewers due to construction activities.

C. Restoration of areas eroded due to insufficient preventive measures.

D. Compensation of Owner for fines levied by authorities having jurisdiction due to non-compliance by Contractor.

1.02 RELATED REQUIREMENTS

A. Section 311000 - Site Clearing: Limits on clearing; disposition of vegetative clearing debris.

B. Section 312200 - Grading: Temporary and permanent grade changes for erosion control.

C. Section 321500 - Aggregate Surfacing: Temporary and permanent roadways.

D. Section 329223 - Sodding: Permanent turf for erosion control.

E. Section 329300 - Plants: Permanent plantings for erosion control.

1.03 REFERENCE STANDARDS

A. EPA (NPDES) - National Pollutant Discharge Elimination System (NPDES), Construction General Permit.

1.04 PERFORMANCE REQUIREMENTS

A. Comply with all requirements of U.S. Environmental Protection Agency for erosion and sedimentation control, as specified for the National Pollutant Discharge Elimination System (NPDES), Phases I and II, under requirements for the 2003 Construction General Permit (CGP).

B. Comply with all requirements of the local municipality and St. Louis County for erosion and sedimentation control.

C. Develop and follow an Erosion and Sedimentation Prevention Plan and submit periodic inspection reports as required by the authority having jurisdiction.

D. Do not begin clearing, grading, or other work involving disturbance of ground surface cover until applicable permits have been obtained; furnish all documentation required to obtain applicable permits.
   1. Obtain and pay for permits and provide security required by authority having jurisdiction.
   2. Owner will withhold payment to Contractor equivalent to all fines resulting from non-compliance with applicable regulations.

E. Timing: Put preventive measures in place as soon as possible after disturbance of surface cover and before precipitation occurs.

F. Storm Water Runoff: Control increased storm water runoff due to disturbance of surface cover due to construction activities for this project.
   1. Prevent runoff into storm and sanitary sewer systems, including open drainage channels, in excess of actual capacity or amount allowed by authorities having jurisdiction, whichever is less.

G. Erosion On Site: Minimize wind, water, and vehicular erosion of soil on project site due to construction activities for this project.
   1. Control movement of sediment and soil from temporary stockpiles of soil.
   2. Prevent development of ruts due to equipment and vehicular traffic.

3. If erosion occurs due to non-compliance with these requirements, restore eroded areas at no cost to Owner.

H. Erosion Off Site: Prevent erosion of soil and deposition of sediment on other properties caused by water leaving the project site due to construction activities for this project.
   1. Prevent windblown soil from leaving the project site.
   2. Prevent tracking of mud onto public roads outside site.
   3. Prevent mud and sediment from flowing onto sidewalks and pavements.
   4. If erosion occurs due to non-compliance with these requirements, restore eroded areas at no cost to Owner.

I. Sedimentation of Waterways On Site: Prevent sedimentation of waterways on the project site, including rivers, streams, lakes, ponds, open drainage ways, storm sewers, and sanitary sewers.
   1. If sedimentation occurs, install or correct preventive measures immediately at no cost to Owner; remove deposited sediments; comply with requirements of authorities having jurisdiction.
   2. If sediment basins are used as temporary preventive measures, pump dry and remove deposited sediment after each storm.

J. Sedimentation of Waterways Off Site: Prevent sedimentation of waterways off the project site, including rivers, streams, lakes, ponds, open drainage ways, storm sewers, and sanitary sewers.
   1. If sedimentation occurs, install or correct preventive measures immediately at no cost to Owner; remove deposited sediments; comply with requirements of authorities having jurisdiction.

K. Open Water: Prevent standing water that could become stagnant.

L. Maintenance: Maintain temporary preventive measures until permanent measures have been established.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Inspection Reports: Submit report of each inspection; identify each preventive measure, indicate condition, and specify maintenance or repair required and accomplished.

C. Maintenance Instructions: Provide instructions covering inspection and maintenance for temporary measures that must remain after Substantial Completion.

PART 2 PRODUCTS

2.01 MATERIALS

A. Mulch: Use one of the following:
   1. Straw or hay.
   2. Erosion control matting or netting.

B. Grass Seed For Temporary Cover: Select a species appropriate to climate, planting season, and intended purpose. If same area will later be planted with permanent vegetation, do not use species known to be excessively competitive or prone to volunteer in subsequent seasons.

C. Erosion Control Barriers
   1. Provide erosion control barriers such as straw bales, silt fences, and other measures as detailed in the drawings.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine site and identify existing features that contribute to erosion resistance; maintain such existing features to greatest extent possible.

3.02 PREPARATION

A. Schedule work so that soil surfaces are left exposed for the minimum amount of time.

3.03 SCOPE OF PREVENTIVE MEASURES

A. In all cases, if permanent erosion resistant measures have been installed temporary preventive measures are not required.

B. Construction Entrances: Traffic-bearing aggregate surface.
   1. Width: As required; 20 feet, minimum.
   2. Length: 50 feet, minimum.
   3. Provide at each construction entrance from public right-of-way.
   4. Where necessary to prevent tracking of mud onto right-of-way, provide wheel washing area out of direct traffic lane, with drain into sediment trap or basin.

C. Linear Sediment Barriers: Made of silt fences.
   1. Provide linear sediment barriers:
      a. Along downhill perimeter edge of disturbed areas, including soil stockpiles.
   2. Space sediment barriers with the following maximum slope length upslope from barrier:
      a. Slope of Less Than 2 Percent: 100 feet..
      b. Slope Between 2 and 5 Percent: 75 feet.
      c. Slope Between 5 and 10 Percent: 50 feet.
      d. Slope Between 10 and 20 Percent: 25 feet.
      e. Slope Over 20 Percent: 15 feet.

D. Storm Drain Curb Inlet Sediment Trap: Protect each curb inlet using one of the following measures:
   1. Filter fabric wrapped around hollow concrete blocks blocking entire inlet face area; use one piece of fabric wrapped at least 1-1/2 times around concrete blocks and secured to prevent dislodging; orient cores of blocks so runoff passes into inlet.
   2. Straw bale row blocking entire inlet face area; anchor into pavement.

E. Storm Drain Drop Inlet Sediment Traps: As detailed on drawings.

F. Temporary Splash Pads: Stone aggregate over filter fabric; size to suit application; provide at downspout outlets and storm water outlets.

G. Soil Stockpiles: Protect using one of the following measures:
   1. Cover with polyethylene film, secured by placing soil on outer edges.
   2. Cover with mulch at least 4 inches thickness of pine needles, sawdust, bark, wood chips, or shredded leaves, or 6 inches of straw or hay.

H. Mulching: Use only for areas that may be subjected to erosion for less than 6 months.

I. Temporary Seeding: Use where temporary vegetated cover is required.

3.04 INSTALLATION

A. Silt Fences:
   1. Store and handle fabric in accordance with ASTM D4873/D4873M.
   2. Where slope gradient is less than 3:1 or barriers will be in place less than 6 months, use nominal 16 inch high barriers with minimum 36 inch long posts spaced at 6 feet maximum, with fabric embedded at least 4 inches in ground.
   3. Where slope gradient is steeper than 3:1 or barriers will be in place over 6 months, use nominal 28 inch high barriers, minimum 48 inch long posts spaced at 6 feet maximum, with fabric embedded at least 6 inches in ground.
   4. Where slope gradient is steeper than 3:1 and vertical height of slope between barriers is more than 20 feet, use nominal 32 inch high barriers with woven wire reinforcement and steel posts spaced at 4 feet maximum, with fabric embedded at least 6 inches in ground.
   5. Install with top of fabric at nominal height and embedment as specified.

6. Do not splice fabric width; minimize splices in fabric length; splice at post only, overlapping at least 18 inches, with extra post.
7. Fasten fabric to wood posts using one of the following:
    a. Four nails per post with 3/4 inch diameter flat or button head, 1 inch long, and 14 gauge, 0.083 inch shank diameter.
    b. Five staples per post with at least 17 gauge, 0.0453 inch wire, 3/4 inch crown width and 1/2 inch long legs.
8. Fasten fabric to steel posts using wire, nylon cord, or integral pockets.
9. Wherever runoff will flow around end of barrier or over the top, provide temporary splash pad or other outlet protection; at such outlets in the run of the barrier, make barrier not more than 12 inches high with post spacing not more than 4 feet.

B. Straw Bale Rows:
1. Install bales in continuous rows with ends butting tightly, with one bale at each end of row turned uphill.
2. Install bales so that bindings are not in contact with the ground.
3. Embed bales at least 4 inches in the ground.
4. Anchor bales with at least two stakes per bale, driven at least 18 inches into the ground; drive first stake in each bale toward the previously placed bale to force bales together.
5. Fill gaps between ends of bales with loose straw wedged tightly.
6. Place soil excavated for trench against bales on the upslope side of the row, compacted.

C. Temporary Seeding:
1. When hydraulic seeder is used, seedbed preparation is not required.
2. When surface soil has been sealed by rainfall or consists of smooth undisturbed cut slopes, and conventional or manual seeding is to be used, prepare seedbed by scarifying sufficiently to allow seed to lodge and germinate.
3. On soils of very low fertility, apply 10-10-10 fertilizer at rate of 12 to 16 pounds per 1000 sq ft.
4. Incorporate fertilizer into soil before seeding.
5. Apply seed uniformly; if using drill or cultipacker seeders place seed 1/2 to 1 inch deep.
6. Irrigate as required to thoroughly wet soil to depth that will ensure germination, without causing runoff or erosion.
7. Repeat irrigation as required until grass is established.

3.05 MAINTENANCE

A. Inspect preventive measures weekly, within 24 hours after the end of any storm that produces 0.5 inches or more rainfall at the project site, and daily during prolonged rainfall.

B. Repair deficiencies immediately.

C. Silt Fences:
1. Promptly replace fabric that deteriorates unless need for fence has passed.
2. Remove silt deposits that exceed one-third of the height of the fence.
3. Repair fences that are undercut by runoff or otherwise damaged, whether by runoff or other causes.

D. Straw Bale Rows:
1. Promptly replace bales that fall apart or otherwise deteriorate unless need has passed.
2. Remove silt deposits that exceed one-half of the height of the bales.
3. Repair bale rows that are undercut by runoff or otherwise damaged, whether by runoff or other causes.

E. Clean out temporary sediment control structures weekly and relocate soil on site.

F. Place sediment in appropriate locations on site; do not remove from site.

3.06 CLEAN UP

A. Remove temporary measures after permanent measures have been installed, unless permitted to remain by Architect.

B. Clean out temporary sediment control structures that are to remain as permanent measures.

C. Where removal of temporary measures would leave exposed soil, shape surface to an acceptable grade and finish to match adjacent ground surfaces.

END OF SECTION 015713

SECTION 015719
TEMPORARY ENVIRONMENTAL CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Construction procedures to promote adequate indoor air quality after construction.

1.02 PROJECT GOALS

A. Dust and Airborne Particulates: Prevent deposition of dust and other particulates in HVAC ducts and equipment.
   1. Cleaning of ductwork is not contemplated under this Contract.
   2. Contractor shall bear the cost of cleaning required due to failure to protect ducts and equipment from construction dust.

B. Airborne Contaminants: Procedures and products have been specified to minimize indoor air pollutants.
   1. Furnish products meeting the specifications.
   2. Avoid construction practices that could result in contamination of installed products leading to indoor air pollution.

1.03 RELATED REQUIREMENTS

A. Section 014000 - Quality Requirements: Testing and inspection services.

B. Section 016116 - Volatile Organic Compound (VOC) Content Restrictions.

C. Section 230593 - Testing, Adjusting, and Balancing for HVAC: Testing HVAC systems for proper air flow rates, adjustment of dampers and registers, and settings for equipment.

1.04 REFERENCE STANDARDS

A. ASHRAE Std 52.2 - Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size.

B. SMACNA (OCC) - IAQ Guidelines for Occupied Buildings Under Construction.

1.05 DEFINITIONS

A. Adsorptive Materials: Gypsum board, acoustical ceiling tile and panels, carpet and carpet tile, fabrics, fibrous insulation, and other similar products.

B. Contaminants: Gases, vapors, regulated pollutants, airborne mold and mildew, and the like, as specified.

C. Particulates: Dust, dirt, and other airborne solid matter.

D. Wet Work: Concrete, plaster, coatings, and other products that emit water vapor or volatile organic compounds during installation, drying, or curing.

PART 2 PRODUCTS

2.01 MATERIALS

A. Low VOC Materials: See Section 016116.

B. Low VOC Materials: See other sections for specific requirements for materials with low VOC content.

C. Auxiliary Air Filters: MERV of 8, minimum, when tested in accordance with ASHRAE Std 52.2.

PART 3 EXECUTION

3.01 CONSTRUCTION PROCEDURES

A. Prevent the absorption of moisture and humidity by adsorptive materials by:
   1. Sequencing the delivery of such materials so that they are not present in the building until wet work is completed and dry.

2. Delivery and storage of such materials in fully sealed moisture-impermeable packaging.
3. Provide sufficient ventilation for drying within reasonable time frame.

B. Begin construction ventilation when building is substantially enclosed.

C. If extremely dusty or dirty work must be conducted inside the building, shut down HVAC systems for the duration or temporarily isolate the HVAC system supply and return in the work area from the remainder of the HVAC system; remove dust and dirt completely before restarting systems.

D. HVAC equipment and supply air ductwork may be used for ventilation during construction:
1. Ensure that air filters are correctly installed prior to starting use; replace filters when they lose efficiency.
2. Seal return air inlets or otherwise positively isolate return air system to prevent recirculation of air; provide alternate return air pathways.
3. Where return air ducts must be used for ventilation, install auxiliary filters at return inlets, sealed to ducts; use filters with at least the equivalent efficiency as those required at supply air side; inspect and replace filters when they lose efficiency.

E. Do not store construction materials or waste in mechanical or electrical rooms.

F. Prior to use of return air ductwork without intake filters clean up and remove dust and debris generated by construction activities.
1. Inspect duct intakes, return air grilles, and terminal units for dust.
2. Clean plenum spaces, including top sides of lay-in ceilings, outsides of ducts, tops of pipes and conduit.
3. Clean tops of doors and frames.
4. Clean mechanical and electrical rooms, including tops of pipes, ducts, and conduit, equipment, and supports.
5. Clean return plenums of air handling units.
6. Remove intake filters last, after cleaning is complete.

G. Do not perform dusty or dirty work after starting use of return air ducts without intake filters.

H. Use other relevant recommendations of SMACNA (OCC) for avoiding unnecessary contamination due to construction procedures.

END OF SECTION 015719

SECTION 015726
DECONTAMINATION UNITS

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

A. Provide separate Personnel and Equipment Decontamination facilities. Require that the Personnel Decontamination Unit be the only means of ingress and egress for the Work Area. Require that all materials exit the Work Area through the Equipment Decontamination Unit.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Section 015000 Temporary Facilities and Controls: Electrical requirements and requirements relative to connection of decontamination facilities to building systems such as water, sewer, and electrical.

B. Section 015643 Temporary Enclosures: Isolation of the Work Area.

C. Section 014113 Asbestos Abatement Codes, Regulations, and Standards: Warning Signs.

D. Section 013000 - Administrative Requirements: Submittals.

1.03 SUBMITTALS

A. Before the Start of Work: Submit the following to the Owner for review. No work shall begin until these submittals provided.

B. Personnel Decontamination Unit: Provide sketch showing location.

C. Equipment Decontamination Unit: Provide sketch showing location.

D. Filters: Provide product data.

PART 2 PRODUCTS

2.01 POLYETHYLENE SHEET

A. Provide a single polyethylene film in the largest sheet size possible to minimize seams, 4 or 6 mil thick as indicated, clear, frosted or black as indicated.

2.02 DUCT TAPE

A. Provide duct tape in 2" or 3" widths as indicated, with an adhesive which is formulated to stick aggressively to sheet polyethylene.

2.03 SPRAY ADHESIVE

A. Provide spray adhesive in aerosol cans which is specifically formulated to stick tenaciously to sheet polyethylene.

2.04 SHOWER PAN

A. Provide one piece waterproof shower pan of appropriate size.

B. Fabricate from seamless fiberglass minimum 1/16" thick reinforced with wood, 18 ga. stainless or galvanized steel with welded seems, copper or lead with soldered seams, or a seamless liner of minimum 60 mil thick elastomeric membrane.

2.05 SHOWER WALLS

A. Provide 8' long by approximately 7' high walls fabricated from rigid, impervious, waterproof material, either corrugated fiberglass roofing or equivalent.

B. Structurally support as necessary for stability.

2.06 SHOWER HEAD AND CONTROLS

A. Provide a factory-made shower head producing a spray of water which can be adjusted for spray size and intensity.

B. Feed shower with water mixed from hot and cold supply lines.

C. Arrange so that control of water temperature, flow rate, and shut off is from inside shower without outside aid.

2.07 FILTERS

A. Provide cascaded filter units on drain lines from showers or any other water source carrying asbestos-contaminated water from the work area.

B. Provide units with disposable filter elements as indicated below.

C. Connect so that discharged water passes primary filter and output of primary filter passes through secondary filter.

D. Primary Filter - Passes particles 20 microns and smaller

E. Secondary Filter - Passes particles 5 microns and smaller

F. Provide spare filters for both personnel and equipment decontamination unit water filters.

2.08 HOSE BIB

A. Provide heavy bronze angle type with wheel handle, vacuum breaker, and 3/4" National Standard male hose outlet.

2.09 SHOWER STALL

A. For wash down station provide leak tight shower enclosure with integrated drain pan fabricated from fiberglass or other durable waterproof material, approximately 3' x 3' square with minimum 6' high sides and back.

B. Structurally support as necessary for stability.

C. Equip with hose bib, as specified in this section, mounted at approximately 4'" above drain pan.

D. Connect drain to a reservoir, pump water from reservoir through filters to a drain.

E. Mount filters inside shower stall on back wall beneath hose bib.

2.10 ELASTOMERIC MEMBRANE

A. Provide uniform flat sheets of flexible sheet roofing material fabricated from EPDM (ethylene propylene diene monomers) or Neoprene (polychloroprene), in a nominal 45 mil thickness.

2.11 LUMBER

A. Provide kiln dried lumber of any grade or species.

2.12 SUMP PUMP

A. Provide totally submersible waterproof sump pump with integral float switch.

B. Provide unit sized to pump two times the flow capacity of all showers or hoses supplying water to the sump, through the filters specified herein when they are loaded to the extent that replacement is required.

C. Provide unit capable of pumping debris, sand, plaster or other materials washed off during decontamination procedures without damage to mechanism of pump.

D. Adjust float switch so that a minimum of 3" remains between top of liquid and top of sump pan.

2.13 HOLDING TANK

A. Provide holding tank for waste water to prevent water from backing up in shower or wash room.

2.14 GROUND FAULT CIRCUIT INTERRUPTER

A. To be installed on all electrical equipment, including cords, used in the decontamination units.

PART 3 EXECUTION

3.01 PERSONNEL DECONTAMINATION UNIT

A. Provide a Personnel Decontamination Unit outside the work area consisting of a serial arrangement of connected rooms or spaces, Clean Room, Shower Room, and Equipment Room.

B. Require all persons without exception to pass through this Personnel Decontamination Unit for entry into and exiting from the Work Area for any purpose.

C. Do not allow parallel routes for entry or exit.

D. Do not remove equipment or materials through Personnel Decontamination Unit.

E. Provide adequate temporary lighting and heat within Personnel Decontamination Units.

F. Clean Room (changing room): Provide a room that is physically and visually separated from the rest of the building for the purpose of changing into protective clothing. Clean Room shall meet the following requirements:
   1. Construct using polyethylene sheeting, at least 6 mil in thickness, to provide an airtight seal between the clean room and the rest of the building.
   2. Locate so that access to work area from clean room is through shower room.
   3. Separate clean room from the building by a sheet plastic flapped doorway.
   4. Require workers to remove all street clothes in this room, dress in protective coveralls, and don respiratory protection equipment.
   5. Do not allow asbestos-contaminated items to enter this room.
   6. Require workers to enter this room either from outside the structure dressed in street clothes, or naked from the showers.
   7. An existing room may be utilized as the changing room if it is suitably located and of a configuration whereby workers may enter the changing room directly from the shower room.
      a. Protect all surfaces of room with sheet plastic as set forth in Section 015643 Temporary Enclosures.
      b. Authorization for this must be obtained from the Owner's Representative in writing prior to start of construction.
      c. Submit written request in accordance with Section 016000 Product Requirements detailing layout and protective measures proposed.
   8. Maintain floor of changing room dry and clean at all times.
   9. Do not allow overflow water from shower to wet floor in changing room.
   10. Damp wipe all surfaces twice after each shift change with a disinfectant solution.
   11. Provide posted information for all emergency phone numbers and procedures.
   12. Provide a continuously adequate supply of disposable bath towels.
   13. Provide one (1) storage locker per employee.
   14. Equip room with benches and shelves and clean protective clothing, replacement filters for respirators, towels and other required protective equipment.
   15. Provide a lockable door which may be secured during non-work hours.

G. Shower Room: Provide a completely watertight operational shower to be used for transit by cleanly dressed workers heading for the work area from the changing room, or for showering by workers headed out of the work area after undressing in the equipment room. Shower Room shall meet the following requirements:
   1. Construct room by providing a shower pan and two shower walls in a configuration that will cause water running down walls to drip into pan.
   2. Install a freely draining wooden floor in shower pan at elevation of top of pan.
   3. Separate this room from the rest of the building with airtight walls fabricated of 6 mil polyethylene.

4. Separate this room from the clean room and equipment room with airtight walls fabricated of 6 mil polyethylene.
5. Provide splash proof entrances.
6. Provide shower head and controls.
7. Provide temporary extensions of existing hot and cold water and drainage, as necessary for a complete and operable shower.
8. Provide a soap dish and a continuously adequate supply of soap and maintain in sanitary condition.
9. Provide liquid shampoo.
10. Arrange so that water from showering does not splash into the clean or equipment rooms.
11. Arrange water shut off and drain pump operation controls so that a single individual can shower without assistance from either inside or outside of the work area.
12. Pump waste water to drain.
13. Provide 20 micron and 5 micron waste water filters in line to drain or waste water storage.
14. Change filters daily or more often if necessary.
15. Locate filters inside shower unit so that water lost during filter changes is caught by shower pan.
16. Provide hose bib.

H. Equipment Room (contaminated area): Require work equipment, footwear and additional contaminated work clothing to be left here. This is a change and transit area for workers. Equipment Room shall meet the following requirements:
1. Separate this room from the work area by a 6 mil polyethylene flapped doorway.
2. Separate this room from the rest of the building with airtight walls fabricated of 6 mil polyethylene.
3. Separate this room from the shower room and work area with airtight walls fabricated of 6 mil polyethylene.
4. Provide a container for collection of used protective clothing.

I. Work Area: Separate work area from the equipment room by polyethylene barriers. Damp wipe clean all surfaces after each shift change.

J. Decontamination Sequence: Require that all workers adhere to the following sequence when entering or leaving the work area:
1. Entering Work Area:
   a. Worker enters clean room and removes street clothing, puts on protective overalls and respirator, and passes through the shower room into the equipment room.
   b. Any additional clothing and equipment left in equipment room needed by the worker are put on in the equipment room.
   c. Worker proceeds to work area.
2. Exiting Work Area:
   a. Before leaving the work area, require the worker to remove all gross contamination and debris from overalls and feet.
   b. The worker then proceeds to the equipment room and removes all clothing except respiratory protection equipment.
   c. Extra work clothing such as boots, hard hats, goggles, and gloves are to be stored in contaminated end of the equipment room.
   d. Disposable coveralls are placed in a bag for disposal with other material.
   e. Require that decontamination procedures found in Section 015733 Worker Protection be followed by all individuals leaving the work area.
   f. After showering, the worker moves to the clean room and dresses in either new coveralls for another entry or street clothes if leaving.

3.02 EQUIPMENT DECONTAMINATION UNIT

A. Provide an Equipment Decontamination Unit consisting of a serial arrangement of rooms, clean room, holding room, wash room for removal of equipment and material from work area.

B. The Personnel Decontamination Unit may be used as the Equipment Decontamination Unit if it is not feasible to erect both decontamination units due to the size of the work area.

C. Wash Room: Provide an enclosed shower unit located in wash room for cleaning of bagged or containerized asbestos-containing waste materials passed from the work area. Wash Room shall meet the following requirements:
   1. Construct wash room of wood framing of appropriate sized lumber and polyethylene sheeting, at least 6 mil in thickness and located so that package materials, after being wiped clean, can be passed to the holding room.
   2. Separate this room from the work area by a single flapped door of 6 mil polyethylene sheeting.
   3. Provide a drop cloth layer of plastic on floor in the wash room for every load-out operation.
   4. Roll this drop cloth layer of plastic from wash room into work area after each load-out.
   5. Provide a minimum of two (2) layers of plastic at all times. Use only clear plastic to cover floors.
   6. Pump waste water to drain.
   7. Provide 20 micron and 5 micron waste water filters in line to drain or waste water storage.
   8. Change filters daily or more often if necessary.
   9. Locate filters inside shower unit so that water lost during filter changes is caught by shower pan.

D. Holding Room: Provide holding room as a drop location for bagged asbestos-containing materials passed from the wash room. Holding Room shall meet the following requirements:
   1. Separate this room from the adjacent rooms by flapped doors fabricated from 1/16” +/- thick single ply elastomeric membrane material either EPDM or Neoprene or by 6 mil sheet plastic.

E. Clean Room: Provide clean room to isolate the holding room from the rest of the building. Clean Room shall meet the following requirements:
   1. Erect critical and primary barriers as described in Section 015643 Temporary Enclosures in an existing space.
   2. If no space exists construct clean room of wood framing of appropriate size and polyethylene sheeting, at least 6 mil in thickness.
   3. Separate this room from the building by a single flap door of 6 mil polyethylene sheeting.
   4. Provide a lockable door to secure the work area during non-work hours.

F. Decontamination Sequence: Take all equipment or material from the work area through the decontamination unit according to the following procedure:
   1. When passing equipment or containers into the wash room, close all doorways of the equipment decontamination unit, other than the doorway between the Work area and the Wash Room.
   2. Keep all outside personnel clear of the Equipment Decontamination Unit.
   3. Once inside the washroom, wet clean the bags and/or equipment.
   4. When cleaning is complete pass items into Holding Room. Close all doorways except the doorway between the Holding Room and the Clean Room.
   5. Pass bags and/or equipment into clean room.
   6. Workers from the outside enter Clean Room and remove decontaminated equipment and/or containers for disposal.
   7. Require these workers to wear full protective clothing and appropriate respiratory protection.
   8. At no time is a worker from an uncontaminated area to enter the enclosure when a removal worker is inside.

3.03 CONSTRUCTION OF THE DECONTAMINATION UNITS

A. Walls and Ceiling:
   1. Construct airtight walls and ceiling using two layers of polyethylene sheeting, at least 6 mil in thickness.
   2. Attach to existing building components or a temporary framework.

B. Floors:
   1. Use 2 layers (minimum) of 6 mil polyethylene sheeting to cover floors in all areas of the Decontamination Units.
   2. Use only clear plastic to cover floors.

C. Flap Doors:
   1. Fabricated from three (3) overlapping sheets with openings a minimum of three feet (3') wide.
   2. Configure so that sheeting overlaps adjacent surfaces.
   3. Weigh sheets at bottoms as required so that they quickly close after being released.
   4. Put arrows on sheets to indicate direction of overlap and/or travel.
   5. Provide a minimum of six feet (6') between entrance and exit of any room.
   6. Provide a minimum of three feet (3') between doors to airlocks, if applicable.

D. If the Decontamination area is located within an area containing friable asbestos on overhead ceiling, ducts, piping, etc., provide the area with a minimum 1/4” hardboard or 1/2” plywood “ceiling” with polyethylene sheeting, at least 6 mil in thickness covering the top of the “ceiling”.

E. Visual Barrier:
   1. Where the Decontamination area is immediately adjacent to and within view of occupied areas, provide a visual barrier of opaque polyethylene sheeting at least 6 mil in thickness so that worker privacy is maintained and work procedures are not visible to building occupants.
   2. Where the area adjacent to the Decontamination area is accessible to the public, construct a solid barrier on the public side of the sheeting to protect the sheeting.
   3. Construct barrier with wood or metal studs covered with minimum 1/4 inch thick hardboard or 1/2 inch plywood.
   4. Where the solid barrier is provided, sheeting need not be opaque.

F. Alternate methods of providing Decontamination facilities may be submitted to the Owner for approval. Do not proceed with any such method(s) without written authorization of the Owner.

G. Electrical: Provide subpanel at Clean Room to accommodate all removal equipment. Connect all electrical branch circuits in Decontamination unit and particularly any pumps in shower room to a ground-fault circuit protection device.

3.04 CLEANING OF DECONTAMINATION UNITS

A. Clean debris and residue from inside of Decontamination Units on a daily basis or as otherwise indicated on Contract Drawings.

B. Damp wipe or hose down all surfaces after each shift change.

C. Clean debris from shower pans on a daily basis.

D. If the Clean Room of the Personnel Decontamination Unit becomes contaminated with asbestos-containing debris, abandon the entire Decontamination Unit and erect a new Decontamination Unit.

E. Use the former Clean Room as an inner section of the new Equipment Room.

3.05 MAINTENANCE OF DECONTAMINATION UNITS

A. Inspect all seals and doorways prior to each work shift and as indicated by conditions throughout removal.

B. Repair immediately if necessary.

C. Clean and dry decontamination units at the end of each work shift.

3.06 SIGNS

A. Post an approximately 20” x 14” manufactured caution sign at each entrance to the Work Area displaying the following with letter sizes and styles of a visibility required by 29 CFR 1926:

DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY

B. Provide spacing between respective lines at least equal to the height of the respective upper line.

C. Post an approximately 10” x 14” manufactured sign at each entrance to each Work Area displaying the following with letter sizes and styles of a visibility at least equal to the following:

LEGEND	NOTATION
NO FOOD, BEVERAGES OR TOBACCO PERMITTED	3/4” Block
ALL PERSONS SHALL DON PROTECTIVE CLOTHING (COVERINGS) BEFORE ENTERING THE WORK AREA	3/4” Block
ALL PERSONS SHALL SHOWER IMMEDIATELY AFTER LEAVING WORK AREA AND BEFORE ENTERING THE CHANGING AREA	3/4” Block

D. Post Work Area emergency procedures.

END OF SECTION 015726

SECTION 015733
WORKER PROTECTION

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

A. This section describes the equipment and procedures required for protecting workers against asbestos contamination and other workplace hazards except for respiratory protection.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Respiratory Protection: is specified in Section 015736.

1.03 WORKER TRAINING

A. AHERA Accreditation: All workers are to be accredited as Abatement Workers as required by the Asbestos Model Accreditation Plan, 40 CFR 763 Appendix C to Subpart E.

B. State and Local License: All workers are to be trained, certified and accredited as required by state or local code or regulation.

C. Training: In accordance with 29 CFR 1926.1101 and any applicable state and local regulations, train all workers shall be trained in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures.

1.04 MEDICAL EXAMINATIONS

A. Provide medical examinations for all workers who may encounter an airborne fiber level of 0.1 f/cc or greater for an 8-hour Time Weighted Average.

B. In the absence of specific airborne fiber data provide medical examinations for all workers who will enter the Work Area for any reason.

C. Examination shall as a minimum meet OSHA requirements as set forth in 29 CFR 1926.1101.

D. Provide an evaluation of the individual's ability to work in environments capable of producing heat stress in the worker.

1.05 SUBMITTALS

A. Before the Start of Work: Submit the following to the Owner for review. No work shall begin until these submittals provided.

B. Asbestos Worker Accreditation: Submit copies of certificates from an EPA-approved Asbestos Abatement Workers course for each worker as evidence that each asbestos abatement worker is accredited as required by 40 CFR 763 Appendix C to Subpart E.

C. State and Local License: Submit evidence that all workers have been trained, certified and accredited as required by state or local code or regulation.

D. Certificate Worker Acknowledgment: Submit an original signed copy of the Certificate of Worker's Acknowledgment found at the end of this section, for each worker who is to be at the job site or enter the Work Area.

E. Report from Medical Examination: conducted within last 12 months as part of compliance with OSHA medical surveillance requirements for each worker who is to enter the Work Area. Submit, at a minimum, for each worker the following:
   1. Name and Social Security Number.
   2. Physician's Written Opinion from examining physician including at a minimum the following:
      a. Whether worker has any detected medical conditions that would place the worker at an increased risk of material health impairment from exposure to asbestos.
      b. Any recommended limitations on the worker or on the use of personal protective equipment such as respirators.

c. Statement that the worker has been informed by the physician of the results of the medical examination and of any medical conditions that may result from asbestos exposure.
d. Statement that worker is able to wear and use the type of respiratory protection proposed for the project, and is able to work safely in an environment capable of producing heat stress in the worker.

F. Notarized Certifications: Submit certification signed by an officer of the abatement contracting firm and notarized that exposure measurements, medical surveillance, and worker training records are being kept in conformance with 29 CFR 1926.1101.

PART 2 PRODUCTS

2.01 PROTECTIVE CLOTHING

A. Coveralls:
1. Provide disposable full-body coveralls and head gear and require that they be worn by all workers in the Work Area.
2. Provide a sufficient number for all required changes, for all workers in the work area.

B. Cold Weather Gear:
1. Provide each worker with an insulated jacket, pants, gloves, and hat.
2. Require that cold weather gear be removed in Equipment Room of Personnel Decontamination Unit.
3. Dispose of cold weather gear as asbestos waste at completion of all work.

C. Boots:
1. Provide work boots with non-skid soles, and where required by OSHA, foot protection, for all workers. Provide boots at no cost to workers.
2. Do not allow boots to be removed from the Work Area for any reason, after being contaminated with asbestos-containing material.
3. Dispose of boots which have not been decontaminated as asbestos-contaminated waste at the end of the work.

D. Hard Hats:
1. Provide head protection (hard hats) as required by OSHA for all workers, and provide four
a. (4) spares for use by Owner's Representative, Project Administrator, and Owner.
2. Label hats with same warning labels as used on disposal bags.
3. Require hard hats to be worn at all times that work is in progress that may potentially cause head injury.
4. Provide hard hats of type with plastic strap type suspension.
5. Require hats to remain in the Work Area throughout the work.
6. Thoroughly clean, decontaminate and bag hats before removing them from Work Area at the end of the work.

E. Goggles:
1. Provide eye protection (goggles) as required by OSHA for all workers involved in scraping, spraying, or any other activity which may potentially cause eye injury.
2. Thoroughly clean, decontaminate and bag goggles before removing them from Work Area at the end of the work.

F. Gloves:
1. Provide work gloves to all workers and require that they be worn at all times in the Work Area.
2. Do not remove gloves from Work Area and dispose of as asbestos-contaminated waste at the end of the work.

PART 3 EXECUTION

3.01 GENERAL

A. Provide worker protection as required by the most stringent OSHA and/or EPA standards applicable to the work.

B. The following procedures are minimums to be adhered to regardless of fiber count in the Work Area:
   1. Each time Work Area is entered remove all street clothes in the Changing Room of the Personnel Decontamination Unit and put on new disposable coverall, or reusable coverall (to be donned in Equipment Room), new head cover, and a clean respirator.
   2. Proceed through shower room to equipment room and put on work boots.

3.02 DECONTAMINATION PROCEDURES

A. Require all workers to adhere to the following personal decontamination procedures whenever they leave the Work Area:
   1. When using Type C Supplied Air or Powered Air-Purifying Respirators: Require that all workers use the following decontamination procedure as a minimum requirement whenever leaving the Work Area:
      a. When exiting area, remove coveralls, disposable head covers, and disposable footwear covers or boots in the Equipment Room.
      b. Still wearing respirators, proceed to showers.
      c. Showering is mandatory.
      d. Care must be taken to follow reasonable procedures in removing the respirator to avoid asbestos fibers while showering.
      e. The following procedure is required as a minimum:
         1) Thoroughly wet body including hair and face. If using a Powered Air-Purifying Respirator (PAPR) hold blower unit above head to keep canisters dry.
         2) With respirator still in place thoroughly wash body, hair, respirator face piece, and all parts of the respirator except the blower unit and battery pack on a PAPR. Pay particular attention to seal between face and respirator and under straps.
         3) Take a deep breath, hold it and/or exhale slowly, completely wet hair, face, and respirator. While still holding breath, remove respirator and hold it away from face before starting to breath.
         4) If using PAPR, shut down in the following sequence: first cap inlets to filter cartridges, then turn off blower unit (this sequence will help keep debris which has collected on the inlet side of filter from dislodging and contaminating the outside of the unit). Thoroughly wash blower unit and hoses. Carefully wash battery pack with wet rag. Be extremely cautious of getting water in battery pack as this will short out and destroy battery.
         5) Shower completely with soap and water.
         6) Rinse thoroughly.
         7) Rinse shower room walls and floor prior to exit.
         8) Proceed from shower to Clean Room and change into street clothes or into new disposable work items.
   2. When using Air Purifying-Negative Pressure Respirators: Require that all workers use the following decontamination procedure as a minimum requirement whenever leaving the Work Area with a half or full face cartridge type respirator:
      a. When exiting area, remove coveralls, disposable headcovers, and disposable footwear covers or boots in the Equipment Room.
      b. Still wearing respirators, proceed to showers.
      c. Showering is mandatory.

d. Care must be taken to follow reasonable procedures in removing the respirator and filters to avoid asbestos fibers while showering.
e. The following procedure is required as a minimum:
    1) Thoroughly wet body from neck down.
    2) Wet hair as thoroughly as possible without wetting the respirator filter if using an air purifying type respirator.
    3) Take a deep breath, hold it and/or exhale slowly, complete wetting of hair, thoroughly wetting face, respirator and filter (air purifying respirator). While still holding breath, remove respirator and hold it away from face before starting to breath.
    4) Dispose of wet filters from air purifying respirator.
    5) Carefully wash face piece of respirator inside and out.
    6) Shower completely with soap and water.
    7) Rinse thoroughly.
    8) Rinse shower room walls and floor prior to exit.
    9) Proceed from shower to Clean Room and change into street clothes or into new disposable work items.

B. Remote Shower:
    1. The procedures above are to be used if the decontamination facility is used as a remote shower.
    2. Workers are to double suit upon exiting the work area and proceed directly to the remote decontamination.
    3. Decontamination procedure is then completed as required above.

C. Within Work Area:
    1. Require that workers NOT eat, drink, smoke, chew tobacco or gum, or apply cosmetics in the Work Area.
    2. To eat, chew, drink or smoke, workers shall follow the procedure described above, then dress in street clothes before entering the non-Work Areas of the building.

END OF SECTION 015733

SECTION 015736
RESPIRATORY PROTECTION

PART 1 GENERAL

1.01 DESCRIPTION OF WORK

A. Instruct and train each worker involved in asbestos abatement or maintenance and repair of friable asbestos-containing materials in proper respiratory use and require that each worker always wear a respirator, properly fitted on the face, in the Work Area from the start of any operation which may cause airborne asbestos fibers until the Work Area is completely decontaminated. Use respiratory protection appropriate for the fiber level encountered in the work place or as required for other toxic or oxygen-deficient situations encountered.

1.02 STANDARDS

A. Except to the extent that more stringent requirements are written directly into the Contract Documents, the following regulations and standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies were bound herewith. Where there is a conflict in requirements set forth in these regulations and standards, meet the more stringent requirement.

B. OSHA - U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards 29 CFR 1910.1001, 1910.134, and 1926.1101.

C. ANSI - American National Standard Practices for Respiratory Protection, ANSI Z88.2-1980.

D. NIOSH - National Institute for Occupational Safety and Health.

E. MSHA - Mine Safety and Health Administration.

F. Other Federal, state and/or local regulations as required.

1.03 SUBMITTALS

A. Before the Start of Work: Submit the following to the Owner for review. No work shall begin until these submittals provided.

B. Product Data: Submit manufacturer's product information for each component used, including NIOSH and MSHA Certifications for each component in an assembly and/or for entire assembly.

C. Respiratory Protection Program: Submit Contractor's written respiratory protection program manual as required by OSHA 1926.1101.

PART 2 PRODUCTS

2.01 AIR PURIFYING RESPIRATORS

A. Respirator Bodies:
   1. Provide half-face or full-face type respirators.
   2. Equip full- face respirators with a nose cup or other anti-fogging device as would be appropriate for use in air temperatures less than 32 degrees Fahrenheit.
   3. Filter Cartridges:
      a. Provide, at a minimum, HEPA type filters labeled with NIOSH and MSHA Certification for "Radionuclides, Radon Daughters, Dust, Fumes, Mists including
      b. In addition, a chemical cartridge section may be added, if required, for solvents, etc., in use.
      c. If a chemical cartridge section is added, provide cartridges that have each section of the combination canister labeled with the appropriate color code and NIOSH/MSHA Certification.
   4. Non-permitted respirators: Do not use single use, disposable or quarter- face respirators.

PART 3 EXECUTION

3.01 GENERAL

A. Respiratory Protection Program: Comply with ANSI Z88.2 - 1980 "Practices for Respiratory Protection" and OSHA 29 CFR 1910 and 1926.

B. Require that respiratory protection be used at all times that there is any possibility of disturbance of asbestos-containing materials whether intentional or accidental.

C. Require that a respirator be worn by anyone in a Work Area at all times, regardless of activity, during a period that starts with any operation which could cause airborne fibers until the area has been cleared for re-occupancy in accordance with Section 017433 Work Area Clearance.

D. Regardless of Airborne Fiber Levels: Require that the minimum level of respiratory protection used be half-face air-purifying respirators with high efficiency filters.

E. Do not allow the use of single-use, disposable, or quarter-face respirators for any purpose.

3.02 FIT TESTING

A. Initial Fitting:
   1. Provide initial fitting of respiratory protection during a respiratory protection course of training.
   2. Fit types of respirator to be actually worn by each individual.
   3. Allow an individual to use only those respirators for which training and fit testing have been provided.

B. Upon Each Wearing: Require that each time an air-purifying respirator is put on it be checked for fit with a positive and negative pressure fit test in accordance with the manufacturer's instructions or ANSI Z88.2 (1980).

3.03 TYPE OF RESPIRATORY PROTECTION REQUIRED

A. Provide Respiratory Protection as indicated in paragraph below. Higher levels of protection may be provided as desired by Contractor, or as directed by Owner. Where paragraph below does not apply, determine the proper level of protection by dividing the expected or actual airborne fiber count in the Work Area by the "protection factors" following:
   1. The level of respiratory protection which supplies an airborne fiber level inside the respirator, at the breathing zone of the wearer, at or below 0.01 f/cc is the minimum level of protection allowed.

B. Use the following unless air monitoring results indicate greater protection is necessary. Refer to Protection Factors table for choice of respirators.
   1. Loose equipment cleaning prior to removal in uncontaminated area: Half-face dual cartridge-type respirator.
   2. Plastic installation which does not disturb asbestos-containing material: Half-face dual cartridge-type respirator.
   3. Removing or cleaning items or plastic installation when such operation may disturb asbestos-containing material: Half-face dual cartridge-type respirator.
   4. Asbestos-containing material removal: Half-face dual cartridge-type respirator.
   5. Gross cleanup of removal area(s): Half-face dual cartridge-type respirator.
   6. Installation of encapsulant after air sampling results indicate 0.01 or less f/cc and before plastic removal: Half-face dual cartridge-type respirator.
   7. Final wet-cleaning of walls until final air tests show exposure in work areas to be below f/cc: Half-face dual cartridge-type respirator.
   8. Loading and unloading drums on truck (outside work area): Half-face cartridge respirators.
   9. Glove bag removal: Half-face dual cartridge-type respirator.
   10. Vinyl-asbestos floor tile, floor tile mastic, ceiling tile, cement-asbestos board removal: Half-face cartridge respirators
   11. Built-up roofing and roof flashing removal: Half-face dual cartridge respirators.

12. Disposal at landfill: Half-face dual cartridge respirator.

C. Fibers: For purposes of this section fibers are defined as all fibers regardless of composition as counted in the OSHA Reference Method (ORM), NIOSH Method 7400 procedure, or asbestos fibers of any size as counted using either a scanning or transmission electron microscope.

D. Protections Factors:

RESPIRATOR TYPE	PROTECTION FACTOR
Air purifying: Negative pressure respirator; High efficiency filter; Half-face/Full-face piece	10
Air purifying: Negative pressure respirator; High efficiency filter; Half-face/Full-face piece or Type C supplied air: Positive pressure respirator, continuous flow; Pressure demand; Half-face/Full-face piece	100
Type C supplied air: Positive pressure respirator; Pressure demand; Full-face piece	1,000
Type C supplied air: Positive pressure respirator; Pressure demand; Full-face piece; Equipped with an auxiliary positive pressure Self-Contained Breathing Apparatus (SCBA)	Over 1,000

3.04 AIR PURIFYING RESPIRATORS

A. Negative pressure - half- or full-face mask:
   1. Supply a sufficient quantity of respirator filters approved for asbestos, so that workers can change filters during the work day.
   2. Require that respirators be wet-rinsed, and filters discarded, each time a worker leaves the Work Area.
   3. Require that new filters be installed each time a worker re-enters the Work Area.
   4. Store respirators and filters at the job site in the changing room and protect totally from exposure to asbestos prior to their use.

B. Powered air purifying - half- or full-face mask:
   1. Supply a sufficient quantity of high efficiency respirator filters approved for asbestos so that workers can change filters at any time that flow through the face piece decreases to the level at which the manufacturer recommends filter replacement.
   2. Require that regardless of flow, filter cartridges be replaced after 40 hours of use.
   3. Require that HEPA elements in filter cartridges be protected from wetting during showering.
   4. Require entire exterior housing of respirator, including blower unit, filter cartridges, hoses, battery pack, face mask, belt, and cords, and be washed each time a worker leaves the Work Area.
   5. Caution should be used to avoid shorting battery pack during washing. Provide an extra battery pack for each respirator so that one can be charging while one is in use.

END OF SECTION 015736

SECTION 015813
TEMPORARY PROJECT SIGNAGE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Project identification sign.

1.02 RELATED REQUIREMENTS

A. Section 011000 - Summary: Responsibility to provide signs.

1.03 REFERENCE STANDARDS

A. FHWA (SHS) - Standard Highway Signs and Markings.

1.04 QUALITY ASSURANCE

A. Design sign and structure to withstand 50 miles/hr wind velocity.

B. Sign Painter: Experienced as a professional sign painter for minimum three years.

C. Finishes, Painting: Adequate to withstand weathering, fading, and chipping for duration of construction.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Shop Drawing: Show content, layout, lettering, color, foundation, structure, sizes and grades of members.

PART 2 PRODUCTS

2.01 SIGN MATERIALS

A. Structure and Framing: New, wood, structurally adequate.

B. Sign Surfaces: Exterior grade plywood with medium density overlay, minimum 3/4 inch thick, standard large sizes to minimize joints.

C. Rough Hardware: Galvanized.

D. Paint and Primers: Exterior quality, two coats; sign background of color as selected.

E. Lettering: Exterior quality paint, contrasting colors.

2.02 PROJECT IDENTIFICATION SIGN

A. One painted sign, 32 sq ft area, bottom 6 feet above ground.

B. Content:
   1. Project number, title, logo and name of Owner as indicated on Contract Documents.
   2. Names and titles of authorities.
   3. Names and titles of Architect and Consultants.
   4. Name ofConstruction Manager .

C. Graphic Design including Color Rendering, Colors and Style of Lettering: Designated by Owner and Architect.

D. Lettering: Standard Alphabet Series C, as specified in FHWA (SHS).
   1. Bond Issue scope of work as provided by the Owner.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install project identification sign within 30 days after date fixed by Notice to Proceed.

B. Erect at designated location.

C. Erect supports and framing on secure foundation, rigidly braced and framed to resist wind loadings.

D. Install sign surface plumb and level, with butt joints. Anchor securely.

E. Paint exposed surfaces of sign, supports, and framing.

3.02 MAINTENANCE

A. Maintain signs and supports clean, repair deterioration and damage.

3.03 REMOVAL

A. Remove signs, framing, supports, and foundations at completion of Project and restore the area.

END OF SECTION 015813

SECTION 016000
PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. General product requirements.

B. Re-use of existing products.

C. Transportation, handling, storage and protection.

D. Product option requirements.

E. Substitution limitations.

F. Value engineering proposals

G. Procedures for Owner-supplied products.

H. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 RELATED REQUIREMENTS

A. 011010 - Project Summary - Bid Packages: Lists of products to be removed from existing building.

B. 011010 - Project Summary - Bid Packages: Identification of Owner-supplied products.

C. Section 014000 - Quality Requirements: Product quality monitoring.

D. Section 016116 - Volatile Organic Compound (VOC) Content Restrictions: Requirements for VOC-restricted product categories.

E. Section 017419 - Construction Waste Management and Disposal: Waste disposal requirements potentially affecting product selection, packaging and substitutions.

1.03 REFERENCE STANDARDS

A. NFPA 70 - National Electrical Code.

1.04 SUBMITTALS

A. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.

B. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.

C. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.

1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

PART 2 PRODUCTS

2.01 EXISTING PRODUCTS

A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by Contract Documents.

B. Unforeseen historic items encountered remain the property of the Owner; notify Owner promptly upon discovery; protect, remove, handle, and store as directed by Owner.

C. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor; remove from site.

D. Specific Products to be Reused: The reuse of certain materials and equipment already existing on the project site is required.
   1. See 011010 for list of items required to be salvaged for reuse and relocation.

2.02 NEW PRODUCTS

A. Provide new products unless specifically required or permitted by Contract Documents.

B. Use of products having any of the following characteristics is not permitted:
   1. Made of wood from newly cut old growth timber.
   2. Containing lead, cadmium, or asbestos.

C. Where other criteria are met, Contractor shall give preference to products that:
   1. If used on interior, have lower emissions, as defined in Section 016116.
   2. If wet-applied, have lower VOC content, as defined in Section 016116.
   3. Are extracted, harvested, and/or manufactured closer to the location of the project.
   4. Have longer documented life span under normal use.
   5. Result in less construction waste. See Section 017419
   6. Are made of vegetable materials that are rapidly renewable.
   7. Are made of recycled materials.
   8. If made of wood, are made of sustainably harvested wood, wood chips, or wood fiber.
   9. If bio-based, other than wood, are or are made of Sustainable Agriculture Network certified products.
   10. Are Cradle-to-Cradle Certified.
   11. Have a published Environmental Product Declaration (EPD).
   12. Have a published Health Product Declaration (HPD).
   13. Have a published Manufacturer's Inventory of Chemical Content.

D. Provide interchangeable components by the same manufacture for components being replaced.

E. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Size terminal lugs to NFPA 70, include lugs for terminal box.

F. Cord and Plug: Provide minimum 6 foot cord and plug including grounding connector for connection to electric wiring system. Cord of longer length is specified in individual specification sections.

2.03 PRODUCT OPTIONS

A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.

B. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.

C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

2.04 MAINTENANCE MATERIALS

A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.

B. Deliver to Owner; obtain receipt prior to final payment.

PART 3 EXECUTION

3.01 SUBSTITUTION PROCEDURES

A. No substitutions will be considered after award of the Contract except as follows:
   1. The specified product becomes unavailable through no fault of the Contractor.

2. The specified product or method of construction cannot be provided within the Contract Time. The request will not be considered if the product or method cannot be provided as a result of failure of the Contractor to pursue the Work promptly or coordinate activities properly.
3. The specified product or method of construction cannot receive necessary approval by authorities having jurisdiction, and the requested substitution can be approved.

B. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.

C. A request for substitution constitutes a representation that the Contractor:
1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
2. Agrees to provide the same warranty for the substitution as for the specified product.
3. Agrees to coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.
4. Waives claims for additional costs or time extension that may subsequently become apparent.

D. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.

E. Substitution Submittal Procedure (after contract award):
1. Submit to Owner and Architect one electronic copy of request for substitution as a Request For Information in Owner's document management system for consideration.
2. Limit each submittal to one value engineering proposal.
3. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.
4. The Architect will notify Contractor in writing of decision to accept or reject request.
5. If accepted, a Change Order will be issued to document the acceptance of the substitution request.

3.02 VALUE ENGINEERING PROPOSALS

A. Value engineering proposals shall be substitutions which, if accepted, provide a savings to the Project of at least two thousand five hundred dollars ($2,500.00) or more after deducting offsetting costs the Owner may be required to bear. Offsetting costs to the Owner may include increased administrative costs by the Owner, Architect's fees for incorporating proposal into Construction Documents, increased cost of other construction by the Owner, cost of Owner's other contractors, and similar considerations.

B. Value engineering proposals will be considered at any time after award of the Contract.

C. Owner is under no obligation to accept value engineering proposals from Contractor.

D. Owner is under no obligation to reimburse costs of value engineering proposal preparation to Contractor if proposal is rejected.

E. The amount of savings to the Project after deducting offsetting costs to the Owner will be distributed fifty percent to the Owner and fifty percent to the Contractor.

F. Value Engineering Proposal Submittal Procedure:
1. Submit to Owner and Architect one electronic copy of value engineering proposal as a Request For Information into Owner's document management system for consideration.
2. Limit each submittal to one value engineering proposal.
3. Submit narrative describing value engineering proposal, product information, and cost savings analysis.
4. The Owner will notify Contractor in writing of decision to accept or reject request.

5. If accepted, a Change Order will be issued to document the acceptance of the value engineering proposal and modify the Contract Sum accordingly.

3.03 OWNER-SUPPLIED PRODUCTS

A. See Section 011010 011010 - Project Summary - Bid Packages for identification of Owner-supplied products.

B. Owner's Responsibilities:
   1. Arrange for and deliver Owner reviewed shop drawings, product data, and samples, to Contractor.
   2. Arrange and pay for product delivery to site.
   3. On delivery, inspect products jointly with Contractor.
   4. Submit claims for transportation damage and replace damaged, defective, or deficient items.
   5. Arrange for manufacturers' warranties, inspections, and service.

C. Contractor's Responsibilities:
   1. Review Owner reviewed shop drawings, product data, and samples.
   2. Receive and unload products at site; inspect for completeness or damage jointly with Owner.
   3. Handle, store, install and finish products.
   4. Repair or replace items damaged after receipt.

3.04 TRANSPORTATION AND HANDLING

A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.

B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.

C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.

D. Transport and handle products in accordance with manufacturer's instructions.

E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.

F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

G. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.

H. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.05 STORAGE AND PROTECTION

A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication. See Section 017419.

B. Store and protect products in accordance with manufacturers' instructions.

C. Store with seals and labels intact and legible.

D. Store sensitive products in weathertight, climate-controlled enclosures in an environment favorable to product.

E. For exterior storage of fabricated products, place on sloped supports above ground.

F. Provide off-site storage and protection when site does not permit on-site storage or protection.

G. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.

H. Comply with manufacturer's warranty conditions, if any.

I. Do not store products directly on the ground.

J. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.

K. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.

L. Prevent contact with material that may cause corrosion, discoloration, or staining.

M. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.

N. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

END OF SECTION 016000

SECTION 016116
VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Requirements for Indoor-Emissions-Restricted products.

B. Requirements for VOC-Content-Restricted products.

1.02 RELATED REQUIREMENTS

A. Section 013000 - Administrative Requirements: Submittal procedures.

B. Section 014000 - Quality Requirements: Procedures for testing and certifications.

C. Section 016000 - Product Requirements: Fundamental product requirements, substitutions and product options, delivery, storage, and handling.

1.03 DEFINITIONS

A. Indoor-Emissions-Restricted Products: All products in the following product categories, whether specified or not:
   1. Interior paints and coatings applied on site.
   2. Interior adhesives and sealants applied on site, including flooring adhesives.
   3. Flooring.
   4. Composite wood.
   5. Products making up wall and ceiling assemblies.
   6. Thermal and acoustical insulation.
   7. Other products when specifically stated in the specifications.

B. VOC-Content-Restricted Products: All products in the following product categories, whether specified or not:
   1. Interior paints and coatings.
   2. Interior adhesives and sealants applied on site, including flooring adhesives.
   3. Other products when specifically stated in the specifications.

C. Interior of Building: Anywhere inside the exterior weather barrier.

D. Adhesives: All gunnable, trowelable, liquid-applied, and aerosol adhesives, whether specified or not; including flooring adhesives, resilient base adhesives, and pipe jointing adhesives.

E. Sealants: All gunnable, trowelable, and liquid-applied joint sealants and sealant primers, whether specified or not; including firestopping sealants and duct joint sealers.

F. Inherently Non-Emitting Materials: Products composed wholly of minerals or metals, unless they include organic-based surface coatings, binders, or sealants; and specifically the following:
   1. Concrete.
   2. Clay brick.
   3. Metals that are plated, anodized, or powder-coated.
   4. Glass.
   5. Ceramics.
   6. Solid wood flooring that is unfinished and untreated.

1.04 REFERENCE STANDARDS

A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency.

B. ASTM D3960 - Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.

C. CAL (CDPH SM) - Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers Version 1.3.

D. CARB (ATCM) - Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products.

E. CARB (SCM) - Suggested Control Measure for Architectural Coatings; California Air Resources Board.

F. CHPS (HPPD) - High Performance Products Database.

G. CRI (GLP) - Green Label Plus Testing Program - Certified Products.

H. GreenSeal GC-03 - Anti-Corrosive Paints; Green Seal, Inc.; 2007

I. GreenSeal GS-11 - Paints; Green Seal, Inc.; 1993.

J. GreenSeal GS-36 - Standard for Adhesives for Commercial Use.

K. SCAQMD 1113 - Architectural Coatings.

L. SCAQMD 1168 - Adhesive and Sealant Applications.

M. SCS (CPD) - SCS Certified Products.

N. UL (GGG) - GREENGUARD Gold Certified Products.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Product Data: For each VOC-restricted product used in the project, submit evidence of compliance.

1.06 QUALITY ASSURANCE

A. Indoor Emissions Standard and Test Method: CAL (CDPH SM), using Standard Private Office exposure scenario and the allowable concentrations specified in the method, and range of total VOC's after 14 days.
   1. Wet-Applied Products: State amount applied in mass per surface area.
   2. Paints and Coatings: Test tinted products, not just tinting bases.
   3. Evidence of Compliance: Acceptable types of evidence are the following;
      a. Current UL (GGG) certification.
      b. Current SCS (CPD) Floorscore certification.
      c. Current SCS (CPD) Indoor Advantage Gold certification.
      d. Current listing in CHPS (HPPD) as a low-emitting product.
      e. Current CRI (GLP) certification.
      f. Test report showing compliance and stating exposure scenario used.
   4. Product data submittal showing VOC content is NOT acceptable evidence.
   5. Manufacturer's certification without test report by independent agency is NOT acceptable evidence.

B. VOC Content Test Method: 40 CFR 59, Subpart D (EPA Method 24), or ASTM D3960, unless otherwise indicated.
   1. Evidence of Compliance: Acceptable types of evidence are:
      a. Report of laboratory testing performed in accordance with requirements.
      b. Published product data showing compliance with requirements.
      c. Certification by manufacturer that product complies with requirements.

C. Composite Wood Emissions Standard: CARB (ATCM) for ultra-low emitting formaldehyde (ULEF) resins.
   1. Evidence of Compliance: Acceptable types of evidence are:
      a. Current SCS "No Added Formaldehyde (NAF)" certification; www.scscertified.com.

b. Report of laboratory testing performed in accordance with requirements.
c. Published product data showing compliance with requirements.
d. Certification by manufacturer that product complies with requirements.

D. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

PART 2 PRODUCTS

2.01 MATERIALS

A. All Products: Comply with the most stringent of federal, State, and local requirements, or these specifications.

B. Indoor-Emissions-Restricted Products: Comply with Indoor Emissions Standard and Test Method, except for:
1. Composite Wood, Wood Fiber, and Wood Chip Products: Comply with Composite Wood Emissions Standard or contain no added formaldehyde resins.
2. Inherently Non-Emitting Materials.

C. VOC-Content-Restricted Products: VOC content not greater than required by the following:
1. Adhesives, Including Flooring Adhesives: SCAQMD 1168 Rule.
2. Aerosol Adhesives: GreenSeal GS-36.
3. Joint Sealants: SCAQMD 1168 Rule.
4. Paints and Coatings: Each color; most stringent of the following:
a. 40 CFR 59, Subpart D.
b. SCAQMD 1113 Rule.
c. CARB (SCM).

D. Other Product Categories: Comply with limitations specified elsewhere.

PART 3 EXECUTION

3.01 FIELD QUALITY CONTROL

A. Owner reserves the right to reject non-compliant products, whether installed or not, and require their removal and replacement with compliant products at no extra cost to Owner.

B. Additional costs to restore indoor air quality due to installation of non-compliant products will be borne by Contractor.

END OF SECTION 016116

SECTION 017000
EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Examination, preparation, and general installation procedures.

B. Requirements for alterations work, including selective demolition.

C. Pre-installation meetings.

D. Cutting and patching.

E. Surveying for laying out the work.

F. Cleaning and protection.

G. Starting of systems and equipment.

H. Demonstration and instruction of Owner personnel.

I. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.

1.02 RELATED REQUIREMENTS

A. Section 013000 - Administrative Requirements: Submittals procedures, Electronic document submittal service.

B. Section 014000 - Quality Requirements: Testing and inspection procedures.

C. Section 015000 - Temporary Facilities and Controls: Temporary exterior enclosures.

D. Section 015000 - Temporary Facilities and Controls: Temporary interior partitions.

E. Section 015100 - Temporary Utilities: Temporary heating, cooling, and ventilating facilities.

F. Section 017419 - Construction Waste Management and Disposal: Additional procedures for trash/waste removal, recycling, salvage, and reuse.

G. Section 017800 - Closeout Submittals: Project record documents, operation and maintenance data, warranties, and bonds.

H. Section 017900 - Demonstration and Training: Demonstration of products and systems to be commissioned and where indicated in specific specification sections

I. Individual Product Specification Sections:
   1. Advance notification to other sections of openings required in work of those sections.
   2. Limitations on cutting structural members.

1.03 REFERENCE STANDARDS

A. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations.

1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Cutting and Patching: Notify Owner in advance of cutting or alteration that affects:
   1. Structural integrity of any element of Project.
   2. Integrity of weather exposed or moisture resistant element.
   3. Efficiency, maintenance, or safety of any operational element.
   4. Visual qualities of sight exposed elements.
   5. Work of Owner or separate contractor.

C. Project Record Documents: Accurately record actual locations of capped and active utilities.

1.05 QUALIFICATIONS

A. For demolition work, employ a firm specializing in the type of work required.

B. For surveying work, employ a land surveyor registered in the State in which the Project is located and acceptable to Architect. Submit evidence of surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate. Employ only individual(s) trained and experienced in collecting and recording accurate data relevant to ongoing construction activities,

C. For field engineering, employ a professional engineer of the discipline required for specific service on Project, licensed in the State in which the Project is located. Employ only individual(s) trained and experienced in establishing and maintaining horizontal and vertical control points necessary for laying out construction work on project of similar size, scope and/or complexity.

D. For design of temporary shoring and bracing, employ a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.

1.06 PROJECT CONDITIONS

A. Use of explosives is not permitted.

B. Grade site to drain. Maintain excavations free of water. Provide, operate, and maintain pumping equipment.

C. Protect site from puddling or running water. Provide water barriers as required to protect site from soil erosion.

D. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.

E. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
   1. Provide dust-proof enclosures to prevent entry of dust generated outdoors.
   2. Provide dust-proof barriers between construction areas and areas continuing to be occupied by Owner.

F. Erosion and Sediment Control: Plan and execute work by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.
   1. Minimize amount of bare soil exposed at one time.
   2. Provide temporary measures such as berms, dikes, and drains, to prevent water flow.
   3. Construct fill and waste areas by selective placement to avoid erosive surface silts or clays.
   4. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.

G. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.
   1. At All Times: Excessively noisy tools and operations will not be tolerated inside the building at any time of day; excessively noisy includes.
   2. Outdoors: Limit conduct of especially noisy exterior work to local municipality or County ordinances.
   3. Indoors: Limit conduct of especially noisy interior work to the hours of 6 pm to 7 am unless approved by Owner prior to performing noisy work.

H. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.

I. Rodent Control: Provide methods, means, and facilities to prevent rodents from accessing or invading premises.

J. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.

1.07 COORDINATION

A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.

B. Notify affected utility companies and comply with their requirements.

C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

F. Coordinate completion and clean-up of work of separate sections.

G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.

B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

C. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 016000 - Product Requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.

B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.

C. Examine and verify specific conditions described in individual specification sections.

D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.

E. Verify that utility services are available, of the correct characteristics, and in the correct locations.

F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION

A. Clean substrate surfaces prior to applying next material or substance.

B. Seal cracks or openings of substrate prior to applying next material or substance.

C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 PREINSTALLATION MEETINGS

A. When required in individual specification sections, convene a preinstallation meeting at the site prior to commencing work of the section.

B. Require attendance of parties directly affecting, or affected by, work of the specific section.

C. Notify Architect four days in advance of meeting date.

D. Prepare agenda and preside at meeting:
   1. Review conditions of examination, preparation and installation procedures.
   2. Review coordination with related work.

E. Record minutes and distribute copies within two days after meeting to participants, with one copy to Architect, Owner, participants, and those affected by decisions made.

3.04 LAYING OUT THE WORK

A. Verify locations of survey control points prior to starting work.

B. Promptly notify Architect of any discrepancies discovered.

C. Owner will locate and protect survey control and reference points.

D. Control datum for survey is that established by Owner provided survey.

E. Protect survey control points prior to starting site work; preserve permanent reference points during construction.

F. Promptly report to Architect the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.

G. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to Architect.

H. Utilize recognized engineering survey practices.

I. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:
   1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.
   2. Grid or axis for structures.
   3. Building foundation, column locations, ground floor elevations.

J. Periodically verify layouts by same means.

K. Maintain a complete and accurate log of control and survey work as it progresses.

3.05 GENERAL INSTALLATION REQUIREMENTS

A. In addition to compliance with regulatory requirements, conduct construction operations in compliance with NFPA 241, including applicable recommendations in Appendix A.

B. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.

C. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.

D. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.

E. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.

F. Make neat transitions between different surfaces, maintaining texture and appearance.

3.06 ALTERATIONS

A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
   1. Verify that construction and utility arrangements are as indicated.
   2. Report discrepancies to Architect before disturbing existing installation.
   3. Beginning of alterations work constitutes acceptance of existing conditions.

B. Keep areas in which alterations are being conducted separated from other areas that are still occupied.
   1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 015000 in locations indicated on drawings.
   2. Provide sound retardant partitions of construction indicated on drawings in locations indicated on drawings.

C. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.
   1. Where openings in exterior enclosure exist, provide construction to make exterior enclosure weatherproof.
   2. Insulate existing ducts or pipes that are exposed to outdoor ambient temperatures by alterations work.

D. Remove existing work as indicated and as required to accomplish new work.
   1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction specified.
   2. Remove items indicated on drawings.
   3. Relocate items indicated on drawings.
   4. Where new surface finishes are to be applied to existing work, perform removals, patch, and prepare existing surfaces as required to receive new finish; remove existing finish if necessary for successful application of new finish.
   5. Where new surface finishes are not specified or indicated, patch holes and damaged surfaces to match adjacent finished surfaces as closely as possible.

E. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications): Remove, relocate, and extend existing systems to accommodate new construction.
   1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components; if necessary, modify installation to allow access or provide access panel.
   2. Where existing systems or equipment are not active and Contract Documents require reactivation, put back into operational condition; repair supply, distribution, and equipment as required.
   3. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
      a. Disable existing systems only to make switchovers and connections; minimize duration of outages.
      b. Provide temporary connections as required to maintain existing systems in service.
   4. Verify that abandoned services serve only abandoned facilities.
   5. Remove abandoned pipe, ducts, conduits, and equipment , including those above accessible ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification; patch holes left by removal using materials specified for new construction.

F. Protect existing work to remain.
   1. Prevent movement of structure; provide shoring and bracing if necessary.
   2. Perform cutting to accomplish removals neatly and as specified for cutting new work.

3. Repair adjacent construction and finishes damaged during removal work.

G. Adapt existing work to fit new work: Make as neat and smooth transition as possible.
   1. When existing finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division and make recommendation to Architect.
   2. Where removal of partitions or walls results in adjacent spaces becoming one, rework floors, walls, and ceilings to a smooth plane without breaks, steps, or bulkheads.
   3. Where a change of plane of 1/4 inch or more occurs in existing work, submit recommendation for providing a smooth transition for Architect review and request instructions.
   4. Trim existing wood doors as necessary to clear new floor finish. Refinish trim as required.

H. Patching: Where the existing surface is not indicated to be refinished, patch to match the surface finish that existed prior to cutting. Where the surface is indicated to be refinished, patch so that the substrate is ready for the new finish.

I. Refinish existing surfaces as indicated:
   1. Where rooms or spaces are indicated to be refinished, refinish all visible existing surfaces to remain to the specified condition for each material, with a neat transition to adjacent finishes.
   2. If mechanical or electrical work is exposed accidentally during the work, re-cover and refinish to match.

J. Clean existing systems and equipment.

K. Remove demolition debris and abandoned items from alterations areas and dispose of off-site; do not burn or bury.

L. Do not begin new construction in alterations areas before demolition is complete.

M. Comply with all other applicable requirements of this section.

3.07 CUTTING AND PATCHING

A. Whenever possible, execute the work by methods that avoid cutting or patching.

B. See Alterations article above for additional requirements.

C. Perform whatever cutting and patching is necessary to:
   1. Complete the work.
   2. Fit products together to integrate with other work.
   3. Provide openings for penetration of mechanical, electrical, and other services.
   4. Match work that has been cut to adjacent work.
   5. Repair areas adjacent to cuts to required condition.
   6. Repair new work damaged by subsequent work.
   7. Remove samples of installed work for testing when requested.
   8. Remove and replace defective and non-complying work.

D. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.

E. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.

F. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.

G. Restore work with new products in accordance with requirements of Contract Documents.

H. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

I. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material , to full thickness of the penetrated element.

J. Patching:
   1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
   2. Match color, texture, and appearance.
   3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

3.08 PROGRESS CLEANING

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.

B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.

C. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.

D. Collect waste materials, debris, and trash/rubbish and place in appropriate trash receptacles or dumpsters daily.

E. Compliance failure:
   1. Owner shall give Contractor written notice of failure to comply with progress cleaning and waste removal requirements.
   2. Owner shall commence progress cleaning and waste removal requirements with Owner's own forces if Contractor has not complied within 24 hours after receiving notice.
   3. Owner shall back charge Contractor at the rate of $80 per man hour required to bring site to a clean and orderly condition.

3.09 PROTECTION OF EXISTING FACILITIES

A. Protect adjacent rooms and spaces that are not a part of the Work.

B. Contractor shall shut doors and keep closed.

C. Contractor shall seal off with plastic and tape inside the Work area any smoke detectors, communicating wall penetrations, return registers, and door undercuts during operations that will generate airborne dust and debris.

D. Contractor shall maintain plastic barriers until the Work generating airborne dust and debris is completed.

E. Contractor shall remove plastic barriers carefully to not damage existing facilities.

F. Contractor shall not use spray adhesives to attach plastic.

G. Contractor shall use tape that will not damage material adhered to upon tape removal.

H. Protect existing flooring:
   1. Prior to Contractor mobilization on site:
      a. Contractor shall provide contact adhesive plastic on carpeted flooring in any room or space, including stairs and ramps that are part of the Work or are used for storage and as indicated on the drawings.

b. Contractor shall provide 1/4 inch tempered masonite, 3/8 inch masonite, or 1/4 inch plywood over contact adhesive plastic sheeting on carpeted flooring and 1/4 inch tempered masonite, 3/8 inch masonite, or 1/4 inch plywood over plastic sheeting on vinyl tile, sheet vinyl, wood, ceramic tile, quarry tile, porcelain tile, rubber, or poured resin flooring in corridors or any other heavy traffic area, including stairs and ramps used to move wheeled or skidded equipment or materials and as indicated on the drawings.
c. Contractor shall provide 1/4 inch tempered masonite, 3/8 inch masonite, or 1/4 inch plywood over plastic sheeting on vinyl tile, sheet vinyl, wood, ceramic tile, quarry tile, porcelain tile, rubber, or poured resin flooring in any rooms or spaces that are part of the Work or are used for storage.
d. Contractor shall provide 1/4 inch tempered masonite, 3/8 inch masonite, or 1/4 inch plywood in areas where soldering, metal cutting, pipe threading, welding, or torch work is performed.
e. Contractor shall tape all joints on installed 1/4 inch tempered masonite, 3/8 inch masonite, or 1/4 inch plywood and maintain taped joints throughout progress of the Work to insure joints remained sealed and do not pose a tripping hazard.
f. Contractor shall cooperate with Owner to identify spaces that meet the requirements for flooring protection identified in this Section prior to mobilization on site.

2. During construction:
a. Contractor will maintain flooring protection during progress of the Work and will not remove protection until all the Work in the room or space is substantially complete.
b. If Contractor moves into a new space to perform the Work or to use for storage and does not protect the existing floor, then the Contractor shall be back charged for cleaning flooring at a minimum or replacement of flooring at a maximum, dependent upon damage to flooring and at the sole discretion of the Owner.

I. Protect existing casework:
1. Contractor shall cover with plastic and tape as a minimum.
2. Contractor shall provide 1/4 inch tempered masonite, 3/8 inch masonite, or 1/4 inch plywood over plastic if casework is used as a ladder or scaffold for workers or if soldering, metal cutting, pipe threading, welding, or torch work is performed overhead.
3. Maintain during progress of the Work and do not remove until all the Work in the room or space is substantially complete.

J. Compliance failure:
1. Owner shall give Contractor written notice of failure to comply with protection of existing facilities.
2. Owner shall commence protecting existing facilities with Owner's own forces if Contractor has not complied within 24 hours after receiving notice.
3. Owner shall back charge Contractor at the rate of $80 per man hour plus cost of protection materials required to protect existing facilities.
4. Contractor shall repair to the satisfaction of the Owner or replace casework damaged as a consequence of using casework as a ladder or scaffold for workers or if damaged because soldering, metal cutting, pipe threading, welding, or torch work is performed overhead without specified protection.

3.10 PROTECTION OF INSTALLED WORK

A. Protect installed work from damage by construction operations.

B. Provide special protection where specified in individual specification sections.

C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.

D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

G. Prohibit traffic from landscaped areas.

H. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

3.11 SYSTEM STARTUP

A. Coordinate schedule for start-up of various equipment and systems.

B. Notify Architect and Owner seven days prior to start-up of each item.

C. Verify that each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.

D. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.

E. Verify that wiring and support components for equipment are complete and tested.

F. Execute start-up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instructions.

G. When specified in individual specification Sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment or system installation prior to start-up, and to supervise placing equipment or system in operation.

H. Submit a written report that equipment or system has been properly installed and is functioning correctly.

3.12 DEMONSTRATION AND INSTRUCTION

A. Demonstrate start-up, operation, control, adjustment, trouble-shooting, servicing, maintenance, and shutdown of each item of equipment at scheduled time, at equipment location.

B. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.

C. Provide a qualified person who is knowledgeable about the Project to perform demonstration and instruction of Owner's personnel.

3.13 ADJUSTING

A. Adjust operating products and equipment to ensure smooth and unhindered operation.

B. Testing, adjusting, and balancing HVAC systems: See Section 230593 - Testing, Adjusting, and Balancing for HVAC.

3.14 FINAL CLEANING

A. Execute final cleaning prior to Substantial Completion.
   1. Clean areas to be occupied by Owner prior to final completion before Owner occupancy.

B. Use cleaning materials that are nonhazardous.

C. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.

D. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.

E. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.

F. Replace filters of operating equipment.

G. Clean debris from roofs, gutters, downspouts, scuppers, overflow drains, area drains, and drainage systems.

H. Clean site; sweep paved areas, rake clean landscaped surfaces.

I. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

3.15 CLOSEOUT PROCEDURES

A. Make submittals that are required by governing or other authorities.
   1. Provide copies to Architect and Owner.

B. Accompany Project Coordinator on preliminary inspection to determine items to be listed for completion or correction in the Contractor's Correction Punch List for Contractor's Notice of Substantial Completion.

C. Notify Owner when work is considered ready for Substantial Completion inspection.

D. Submit written certification containing Contractor's Correction Punch List, that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for Architect's Substantial Completion inspection.

E. Owner will occupy portions of the building as specified in Section 011000.

F. Conduct Substantial Completion inspection and create Final Correction Punch List containing Architect's and Contractor's comprehensive list of items identified to be completed or corrected and submit to Architect.

G. Correct items of work listed in Final Correction Punch List and comply with requirements for access to Owner-occupied areas.

H. Accompany Owner's Construction Supervisor on Contractor's preliminary final inspection.

I. Notify Owner when work is considered finally complete.

J. Complete items of work determined by Architect's and Owner's final inspection.

END OF SECTION 017000

SECTION 017333
PROJECT DECONTAMINATION

PART 1 GENERAL

1.01 DESCRIPTION OF REQUIREMENTS

A. General: Decontamination of the Work Area following asbestos abatement.
   1. One cleaning of the primary barrier plastic prior to its removal and one cleaning of the room surfaces to remove any new or existing contamination will be used. Unless specifically indicated otherwise all materials are considered damaged or friable for purposes of this section. Operation of the negative pressure system is used to remove airborne fibers generated by the abatement work.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Removal of Gross Debris is integral with the performance of abatement work and as such is specified in the appropriate work section(s) of these specifications:
   1. Section 028213 Removal of Asbestos Containing Materials
   2. Section 028236 Removal of Class II Asbestos Containing Materials
   3. Section 099733 Encapsulation of Asbestos Containing Materials

B. Work Area Clearance: Air testing and other requirements which must be met before release of Contractor and reoccupancy of the work area are specified in Section 017433 Work Area Clearance.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 GENERAL

A. Work of This Section includes the decontamination of air in the Work Area which has been, or may have been, contaminated by the elevated airborne asbestos fiber levels generated during abatement activities, or which may previously have had elevated fiber levels due to friable asbestos-containing materials in the space.

B. Work of This Section includes the cleaning, decontamination, and removal of temporary facilities installed prior to abatement work, including:
   1. Primary and Critical Barriers erected by work of Section 01526
   2. Decontamination Unit erected by work of Section 01563
   3. Negative Pressure System installed by work of Section 01513

3.02 START OF WORK

A. Previous Work: During completion of the asbestos abatement work specified in other sections, the Secondary Barrier of polyethylene sheeting will have been removed and disposed of along with any gross debris generated by the asbestos abatement work.

B. Start of Work: Work of this section begins with the cleaning of the Primary Barrier. At start of work the following will be in place:
   1. Primary Barrier: Two layers of polyethylene sheeting on floor and two layers on walls.
   2. Critical Barrier: An airtight barrier between the Work Area and other portions of the building or the outside.
   3. Critical Barrier Sheeting: Over lighting fixtures and clocks, ventilation openings, doorways, convectors, speakers and other openings.
   4. Decontamination Units: For personnel and equipment in operating condition.
   5. Negative Pressure System: In operation.

3.03 WORK SEQUENCE

A. The work shall be carried out in the sequence as listed below.

B. First Cleaning:

1. Carry out a first cleaning of all surfaces of the work area including items of remaining sheeting, tools, scaffolding and/or staging by use of damp-cleaning and mopping, and/or a High Efficiency Particulate Air (HEPA) filtered vacuum. (Note: A HEPA vacuum may fail if used with wet material.) Do not perform dry dusting or dry sweeping. Use each surface of a cleaning cloth one time only and then dispose of as contaminated waste. Continue this cleaning until there is no visible debris from removed materials or residue on plastic sheeting or other surfaces.

C. First Visual Inspection:
   1. Conduct a Visual Inspection of the entire Work Area per ASTM guideline E-1368-05e1 or most current version, including: all surfaces, ceiling, walls, floor, decontamination unit, all plastic sheeting, seals over ventilation openings, doorways, windows, and other openings; look for debris from any sources, residue on surfaces, dust or other matter. If any debris, residue, dust or other matter is found repeat final cleaning and continue decontamination procedure from that point. When the area is visually clean, complete the certification at the end of this section. Visual inspection is not complete until confirmed in writing, on the certification, by Project Administrator.
   2. Temporary lighting: Provide adequate lighting for visual inspection of all surfaces in the areas to be subjected to visual inspection.
   3. Lifts: Provide ladders, scaffolding, and lifts as required to provide access to all surfaces in the area to be subjected to visual inspection. Access is to allow touching of all surfaces.

D. Encapsulation:
   1. Perform encapsulation of substrate at this time.
   2. Maintain negative pressure system in operation during encapsulation work.
   3. Perform work only after meeting the following requirements:
      a. Surfaces to be covered have met the requirements for a visual inspection in this section.
   4. Encapsulation may only be performed, if the Contractor has demonstrated that the encapsulant to be used is compatible with the materials or finishes to be re-applied in the Work Area.

E. Waiting Period:
   1. Wait 12 hours to allow HEPA filtered fan units to clean air of airborne asbestos fibers and encapsulant to dry.
   2. Use oscillating fans as necessary to assure circulation of air in all parts of work areas during this period.
   3. Maintain negative pressure system in operation for the entire waiting period.

F. Removal of Primary Barriers:
   1. At completion of waiting period remove Primary barrier sheeting in the work area.
   2. Leave the critical barrier(s): Which form the sole barrier between the Work Area and other portions of the building or the outside:
   3. Leave the Critical Barrier Sheeting: Over lighting fixtures and clocks, ventilation openings, doorways, convectors, speakers, and other openings.
   4. Leave the Decontamination Unit: For personnel, in operating condition.
   5. Leave the negative pressure system and maintain in continuous operation.
   6. Conduct Final cleaning: Clean all surfaces in the work area in the same manner as the first cleaning immediately after removal of Primary plastic. This cleaning is now being applied to existing room surfaces and critical barriers. Take care to avoid water marks or other damage to surfaces.

G. Air Stream Cleaning:

1. Contractor's Testing: Visually inspect all surfaces and reclean if any dust, debris, etc. is found. At completion of this inspection sweep entire Work Area including walls, ceilings, ledges, floors and other surfaces in the Work Area with exhaust from forced-air equipment (leaf blower with approximately 1 horsepower electric motor or equivalent). Do not direct forced-air equipment at any seal in any Critical Barrier. If any debris or dust is found repeat the cleaning. Continue this process until no debris dust or other material is found while sweeping of all surfaces with forced-air equipment.
2. Maintain negative pressure system in continuous operation for the entire time.

H. Second Visual Inspection:
1. Conduct visual inspection per ASTM guideline E-1368-05e1 or most current version, and reclean as necessary. When visual inspection is passed, clearance air monitoring may be performed after work area is dry.

I. Final Clearance Air Sampling:
1. After the work area is found to be visually clean PCM or TEM air samples will be collected and analyzed in accordance with the procedure for Transmission Electron Microscopy or Phase Contrast Microscopy as set forth in Section 01714 Work Area Clearance.
   a. If Release Criteria are not met, repeat Final Cleaning and continue Decontamination procedure from that point.
   b. If Release Criteria are met, work may proceed with removal of work area isolation barriers.

J. Removal of Work Area Isolation:
1. After all requirements of this section and Section 01714 Work Area Clearance have been met:
   a. Remove the Critical Barriers separating the Work Area from the rest of the building.
   b. HEPA vacuum carpeting designated to remain in work areas using a floor cleaning attachment adjusted so that rubber skirting is in contact with carpet surface. Use a passive (non-power brush type) floor attachment with rubber floor seals and adjustable above-floor height. Completely clean carpeting in one direction with each pass of the floor attachment overlapping the previous pass by one-half the attachment width. At the completion of one such cleaning, vacuum clean in the same manner in a direction at right angles to the initial cleaning.
   c. Shut down and remove the negative pressure system: Seal HEPA filtered fan units, HEPA vacuums and similar equipment with 6 mil polyethylene sheet and duct tape to form a tight seal at intake end before being moved from Work Area.
   d. Remove Personnel Decontamination Unit
   e. Remove any small quantities of residual material found with wet wiping, HEPA filtered vacuum cleaners and local area protection. If significant quantities, as determined by the Owner's Representative, are found then the entire area affected shall be decontaminated as specified in Paragraph 3.3.1 of this section.
   f. Remove all equipment, materials, debris from the work site.
   g. Dispose of all asbestos-containing waste material as specified in Section 02084 Disposal of Asbestos Containing Waste Material.

3.04 CERTIFICATE OF VISUAL INSPECTION

A. A "Certificate of Visual Inspection". shall be completed by the Contractor and certified by the Project Administrator. Submit completed Certificate with Application for Final Payment. Final payment will not be made until this Certificate is executed.

B. Form is included in Section 006000 - Project Forms

3.05 SUBSTANTIAL COMPLETION OF ABATEMENT WORK

A. Asbestos Abatement Work is Substantially Complete upon meeting the requirements of this section and Section 01714 Work Area Clearance, including submission of:
1. Certificate of Visual Inspection

2. Punch list detailing repairs to be made and incomplete items.

END OF SECTION 017333

SECTION 017419
CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 GENERAL

1.01 WASTE MANAGEMENT REQUIREMENTS

A. Owner requires that this project generate the least amount of trash and waste possible.

B. Owner recovers commodity, universal, and hazardous waste materials.

C. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.

D. Minimize trash/waste disposal in landfills; salvage or recycle as much waste as economically feasible.

E. Required Recycling: The following must be recycled by the Contractor:
   1. Wood pallets, not painted.
   2. Clean dimensional wood, not painted.
   3. Land clearing debris, including brush, branches, logs, and stumps; see 311000 - Site Clearing for use options.
   4. Concrete.
   5. Concrete masonry units.
   6. Bricks, unless specifically identified in the Contract Documents to be re-used on site.
   7. Pre-cast concrete panels.
   8. Asphalt.
   9. Asphalt roofing shingles.
   10. Plumbing fixtures, porcelain.
   11. Acoustical ceiling tile:
      a. Use acoustical ceiling tile recycling program administered by Armstrong World Industries, Inc.
         1) Additional information can be found at web address ***https://www.armstrongceilings.com/commercial/en-us/performance/sustainable-building-design/ceiling-recycling-program.html***
      b. Materials acceptable for recycling:
         1) All brands of dry, pulpable mineral fiber ceiling panels or tiles.
            (a) All metal splines must be removed from tiles (12”x12”).
         2) All brands of dry fiberglass panels (foil-back case by case).
            (a) Facing must be easily removable.
         3) Any vinyl or scrim-faced mineral fiber panels.
      c. Materials acceptable for recycling case-by-case: (Contact the Armstrong Recycling Center at telephone number 877-276-7876)
         1) Asbestos containing ceiling tiles, Ceiling tiles installed below friable asbestos or contaminated with any other hazardous material.
         2) Red or pink-backed ceiling tiles.
         3) Wet, moldy or weathered ceiling tiles.
         4) Ceiling tiles or pallets/boxes/bales which contain visible debris (garbage, construction waste).
         5) Ceiling tiles not packaged according to Armstrong Specifications.
         6) Any gypsum ceiling or board.
         7) Ceiling tiles with visible wood pulp.
         8) Armstrong Artran (cardboard like face).
         9) Armstrong Ceramaguard.
         10) Glue-up or adhesive ceiling tiles.

11) Roll-offs which contain debris.
12) Baled fiberglass, vinyl-faced, fabric, scram faced or foil-backed ceiling tiles.

d. Call the Armstrong Recycling Center at 877-276-7876 to review the building where the ceilings will be removed, verify the material meets our requirements and for assistance to facilitate recycle. We are continually updating the types of ceiling panels we can recycle and methods we can receive them in.

e. Ceiling material being reclaimed may not come into contact with asbestos containing material, hazardous waste materials or special waste.
   1) If the area where ceilings are being removed is or has gone through abatement procedures, verification that ceilings did not come in contact with asbestos containing material is required

f. Ceiling material being reclaimed must be kept dry and free from debris.

g. Contractor shall register the Project: Contact the Armstrong Ceiling Recycling Center at telephone number 877-276-7876.

h. Required Information to have project approved for recycling:
   1) Contact information for the recycle project.
   2) Building information (Year of Building Construction, Contractor or demo subontractor, Building use, copy of an asbestos survey, details on any prior or current abatement where ceiling is removed).
      (a) Owner will provide asbestos survey information upon request from the Contractor.
   3) Ceiling Information – Material type, quantity, timing.

i. Scheduling, packaging, and shipping procedures:
   1) Receive final project approval for recycling by the Armstrong Recycling Center.
   2) Contractor shall remove ceiling tiles to be recycled from grid.
   3) Contractor shall contact the Armstrong Recycling Center (877-276-7876) to schedule a pick up.
   4) Contractor shall use one of the following three options for return.
      (a) When Option B or C is chosed by the Contractor, coordinate with the local recyler/consolidator for the applicable option to be used.
   5) Option A For Return-Full Truckload Palletized Procedure:
      (a) Contractor shall supply pallets, metal bands, stretch wrap.
      (b) Approved ceiling materials will be palletized in a manner allowing both secure shipment by trailer and the ability of Armstrong employees to safely inspect and unload the trailers' contents, therefore all approved ceiling materials sent to Armstrong must be neatly stacked as follows:
         (1) 4’ x 4’ pallets stacked with ceiling materials to 4 feet tall each and then stacked on top of each other in the trailer. This method is preferred but proper loading equipment must be available at the job site.
         (2) 4’ x 4’ pallets stacked with ceiling materials to 6 feet tall each.
         (3) Some combination of 2’x4’ and 4’x4’ pallets that are agreed upon in advance, in writing to accommodate special building circumstances if building elevators do not accommodate larger size pallets.
         (4) When 2’ x 4’ pallets are used place onto 4’ x 4’ pallets to stabilize two 2’ x 4’ pallets and use stretch wrap to secure pallets together..
      (c) Contractor shall neatly stack ceiling panels on 4’ x 4’ wooden pallets and secure them with metal bands or stretch wrap for stable shipment.
         (1) Any variation from pallet size must be pre-approved by Armstrong.
      (d) Pallets must be kept dry.
         (1) Wet material is not acceptable and will be returned.
      (e) Pallets must be labeled per Armstrong requirements.
      (f) Pallets must be secured within trailers to prevent shifting in transit.

(1) Carriers will provide load stabilizers.

(g) Armstrong will pay for the return freight of full trailers of approved material, all of which are defined as a minimum of 30,000 square feet as follows:
   (1) Forty-four 4’ x 4’ pallets stacked with ceiling material to 4 feet tall each and then stacked on top of each other in the trailer (preferred method, but proper loading equipment must be available at the job site).
   (2) Twenty-two 4’ x 4’ pallets with ceiling material stacked to 6 feet tall each.

(h) It is Contractor's responsibility to ensure that only full trailer loads of approved ceiling materials are shipped.

6) Option B For Return-Less Than Full Truckload Palletized Procedure:
   (a) Where the amount of approved ceiling materials from a site is insufficient for a full trailer load, the Contractor may elect to utilize the services of a local recycler/conconsolidator to consolidate approved ceiling materials in a secure and dry location, until a full trailer load is ready for shipment.
      (1) The local recycler/consolidator will ensure that all such aggregated shipments are and remain clearly labeled as to their origin and date of approval by an Armstrong employee.
      (2) Go to following web address to find a local recyler/consolidator: ***www.armstrongceilings.com/commercial/enus/performance/sustainable-building-design/ceiling-recyclingprogram.html***.
      (3) Upon aggregating a full truck load of ceiling tiles, follow the Option A procedures.
   (b) The local recycler/consolidator may assist in supplying pallets, metal bands, and stretch wrap.
   (c) When local consolidation is not available a LTL pick up may be arranged in some areas for five (5) pallets (7,000 sq. ft.) or more of approved ceiling materials.
      (1) Armstrong will pay the return freight of these LTL pickups. LTL pickup must be pre-approved by Armstrong when other options are not available.
      (2) LTL pickup must be pre-approved by Armstrong when other options are not available.
   (d) The recycler/consolidator shall retain ownership of approved ceiling materials until it is received and accepted at the destination, the Armstrong Plant, as defined by the terms of shipment, F.O.B. (Free on board) destination, despite Armstrong’s payment of the freight costs for full trailer loads.
   (e) While the Armstrong approved common carrier is not a party to this agreement, the following describes their responsibilities.
      (1) The common carrier that Armstrong has selected is responsible for the transport of the approved ceiling materials from the pick up location to Armstrong’s plant.
      (2) This common carrier is an independent contractor utilized by Armstrong and required to demonstrate general liability insurance coverage that meets or exceeds industry standards.

7) Option C For Return-On-Site Roll-Off Procedure (Bulk return to local recycler/consolidator):
   (a) Where the amount of approved ceiling materials from a site is insufficient for a full trailer load, the Contractor may elect to utilize the services of a local recycler/conconsolidator to consolidate approved ceiling materials in a secure and dry location, until a full trailer load is ready for shipment.

(1) The local recycler/consolidator will ensure that all such aggregated shipments are and remain clearly labeled as to their origin and date of approval by an Armstrong employee.
(2) Go to following web address to find a local recyler/consolidator: ***www.armstrongceilings.com/commercial/enus/performance/sustainable-building-design/ceiling-recyclingprogram.html.***
(3) Upon aggregating a full truck load of ceiling tiles, follow the Option A procedures.

(b) Material must be clean and dry.
(c) No wood, metal, construction debris, trash or hazardous materials of any kind can be included.
(d) Material shall be placed in a roll-off container with a water impermeable cover such that material inside does not get wet.
(e) Material shall not be loaded above the top of the container.
(f) Container should have visible Armstrong RA label attached.

12. Contractor can find contact information for various material recyclers at the following web addresses, but may use the material recycler of their choosing, whether or not they are listed at the web addresses provided:

a.	***http://www.stlouisco.com/HealthandWellness/RecyclingandWasteManagement/RegulationsAndLicensing/ConstructionAndDemolitionRecycling***

F. Required Recycling: The following must be disposed of in Owner provided containers or stockpiled in areas identified by Owner on project site for Owner pick-up for recycling or disposal:
1. Single Stream Recycling Container:
   a. Aluminum and plastic beverage containers.
   b. All nonhazardous aluminum containers.
   c. All nonhazardous glass containers.
   d. All nonhazardous plastic containers marked with the number 1, 2, 3, 4, 5, or 7.
      1) Plastic containers marked with the number 6, plastic bags, plastic straps, and plastic container lids shall not be recycled but shall be disposed of off site.
   e. All nonhazardous cardboard free of contaminants with the exception of metal staples or tape.
2. Ferrous Scrap Metal Recycling Container:
   a. All nonhazardous ferrous metals, including packaging banding, metal studs, acoustic ceiling tile frames, sheet metal, structural steel, conduit not containing copper or aluminum wire, piping, reinforcing bars, doors without glazing, door frames, door hardware, and other items made of steel, iron, galvanized steel, stainless steel.
3. Non-Ferrous Scrap Metal Recycling Container:
   a. All nonhazardous non-ferrous metals, including acoustic ceiling tile frames, sheet metal, conduit which can contain copper or aluminum wire, piping, plumbing fixture trim components, doors without glazing, door frames, door hardware, and other items made of aluminum, copper, zinc, lead, brass, and bronze.
   b. All electrical cabling and wiring.
4. Stockpile For Owner Recycling Or Hazmat Disposal:
   a. Mechanical and electrical equipment, unless otherwise indicated on the drawings.
      1) Refrigerant shall be removed from mechanical equipment before recycling mechanical equipment.
   b. Fluorescent lamps (light bulbs).
      1) Protect lamps from breakage during demolition, collection, and stockpiling
   c. All lead acid NiCad and lithium batteries.
   d. All lighting ballasts or other electrical equipment suspected of containing PCBs.

G. The Owner's waste minimization and material recovery operation is limited to those commodity, universal, and hazardous waste materials identified above as Owner's responsibility and responsibility for disposal or recycling of all other construction and demolition waste shall be the responsibility of the Contractor.

H. Owner will recycle recyclable materials and legally dispose of hazardous materials collected from the commodity, universal, and hazardous waste materials identified above as Owner's responsibility.

I. Revenue from recycling of materials collected from the commodity, universal, and hazardous waste materials identified above as Owner's responsibility shall accrue to the Owner.

J. Revenue from recycling of materials collected from the commodity, universal, and hazardous waste materials identified above as Contractor's responsibility shall accrue to the Contractor.

K. Develop and follow a Waste Management Plan designed to implement these requirements.

L. Methods of trash/waste disposal that are not acceptable are:
   1. Burning on the project site.
   2. Burying on the project site.
   3. Dumping or burying on other property, public or private.
   4. Other illegal dumping or burying.
   5. Incineration, either on- or off-site.

M. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials.

1.02 RELATED REQUIREMENTS

A. Section 011000 - Summary: List of items to be salvaged from the existing building for relocation in project or for Owner.

B. Section 013000 - Administrative Requirements: Additional requirements for project meetings, reports, submittal procedures, and project documentation.

C. Section 015000 - Temporary Facilities and Controls: Additional requirements related to trash/waste collection and removal facilities and services.

D. Section 016000 - Product Requirements: Waste prevention requirements related to delivery, storage, and handling.

E. Section 017000 - Execution and Closeout Requirements: Trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and cleaning.

F. Section 311000 - Site Clearing: Handling and disposal of land clearing debris.

1.03 DEFINITIONS

A. Clean: Untreated and unpainted; not contaminated with oils, solvents, caulk, or the like.

B. Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, remodeling, repair and demolition operations.

C. Hazardous: Exhibiting the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity or reactivity.

D. Nonhazardous: Exhibiting none of the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity, or reactivity.

E. Nontoxic: Neither immediately poisonous to humans nor poisonous after a long period of exposure.

F. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.

G. Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others.

H. Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form. Recycling does not include burning, incinerating, or thermally destroying waste.

I. Return: To give back reusable items or unused products to vendors for credit.

J. Reuse: To reuse a construction waste material in some manner on the project site.

K. Salvage: To remove a waste material from the project site to another site for resale or reuse by others.

L. Sediment: Soil and other debris that has been eroded and transported by storm or well production run-off water.

M. Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.

N. Toxic: Poisonous to humans either immediately or after a long period of exposure.

O. Trash: Any product or material unable to be reused, returned, recycled, or salvaged.

P. Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.

1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements for submittal procedures.

B. Waste Management Plan:
   1. Submit Report prior to starting the Work on Project Site but no later than 42 days after Notice To Proceed date.
   2. Submit to Owner one electronic copy of waste disposal report as an e-mail attachment containing the following information:
      a. Landfill Options: The name, address, and telephone number of the landfill(s) where trash/waste will be disposed.
      b. Landfill Alternatives: List all waste materials that will be diverted from landfills by salvage or recycling.
         1) List each material proposed to be salvaged or recycled.

C. Waste Disposal Reports:
   1. Submit Report prior to submitting Final Application for Payment but no later than 28 days after Substantial Completion date.
   2. Submit to Owner one electronic copy of waste disposal report as an e-mail attachment containing the following information:
      a. Landfill Disposal: Include the following information:
         1) Identification of material.
         2) Amount, in tons or cubic yards, of trash/waste material from the project disposed of in landfills.
         3) Provide the name, address, telephone number, and contact person's name of the landfills used and provide certification to the Owner that the landfills have been used.
         4) Include manifests, weight tickets, receipts, or invoices as evidence of quantity.
      b. Recycled and Salvaged Materials: Include the following information for each:
         1) Does not apply to Owner recycled materials.
         2) Identification of material, including those retrieved by installer for use on other projects.
         3) Amount, in tons or cubic yards, date removed from the project site, and receiving party.

4) Include manifests, weight tickets, receipts, and invoices as evidence of quantity.
5) Certification by receiving party that materials will not be disposed of in landfills or by incineration.

c. Other Disposal Methods: Include information similar to that described above, as appropriate to disposal method.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 WASTE MANAGEMENT PROCEDURES

A. See Section 011000 for list of items to be salvaged from the existing building for relocation in project or for Owner.

B. See Section 013000 for additional requirements for project meetings, reports, submittal procedures, and project documentation.

C. See Section 015000 for additional requirements related to trash/waste collection and removal facilities and services.

D. See Section 016000 for waste prevention requirements related to delivery, storage, and handling.

E. See Section 017000 for trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and cleaning.

3.02 WASTE MANAGEMENT PLAN IMPLEMENTATION

A. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan.

B. Communication: Distribute copies of the Waste Management Plan to job site foreman and each Subcontractor.

C. Instruction: Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the project.

D. Meetings: Discuss trash/waste management goals and issues at project meetings, particularly at:
1. Prebid meeting.
2. Preconstruction meeting.
3. Regular job-site meetings.

E. Facilities: Provide specific facilities for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers.
1. Provide containers as required.
2. Provide adequate space for pick-up and delivery and convenience to Subcontractors.
3. Keep recycling and trash/waste bin areas neat and clean and clearly marked in order to avoid contamination of materials.

F. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations.

G. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials.

H. Reuse of Materials On-Site: Set aside, sort, and protect separated products in preparation for reuse.

I. Salvage: Set aside, sort, and protect products to be salvaged for reuse off-site.

END OF SECTION 017419

SECTION 017433
WORK AREA CLEARANCE

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Visual Inspection: Required as a prerequisite of air testing, is set forth in Section 017333 Project Decontamination.

B. Air Monitoring: Performed by the Owner during abatement work, is described in Section 014529 Air Monitoring Test Laboratory Services.

1.02 SUMMARY

A. Not in Guaranteed Maximum Price: This section describes work being performed by the Owner. This work is not in the Guaranteed Maximum Price.

B. This section sets forth required post-abatement airborne asbestos concentrations in the Work Area and describes testing procedures the Owner will use to measure these levels.

1.03 CONTRACTOR RELEASE CRITERIA

A. The Asbestos Abatement Work Area is cleared when the Work Area is visually clean and airborne asbestos structure concentrations have been reduced to the level specified below.

1.04 VISUAL INSPECTION

A. Work of this section will not begin until the visual inspection described in Section 017333 Project Decontamination is complete and has been certified by the Project Administrator.

1.05 AIR MONITORING

A. To determine if the elevated airborne asbestos structure concentration encountered during abatement operations has been reduced to the specified level, the Owner will secure samples and analyze them according to the following procedures:
   1. Aggressive sampling procedures as described below will be followed.
   2. PCM or TEM samples will be secured as indicated below. PCM samples will be analyzed and TEM samples will be transmitted to the laboratory. If the area meets the clearance criteria by PCM the TEM analysis will proceed.
   3. Work Area Clearance: Upon meeting the PCM or TEM Clearance requirements the work of Section 017333 Project Decontamination can continue.

1.06 AGGRESSIVE SAMPLING

A. All Air Samples will be taken using aggressive sampling techniques as follows:
   1. Before sampling pumps are started the exhaust from forced-air equipment (leaf blower with an approximately 1 horsepower electric motor) will be swept against all walls, ceilings, floors, ledges and other surfaces in the room. This procedure will be continued for 5 minutes per 10,000 cubic feet of room volume.
   2. One 20 inch diameter fan per 10,000 cubic feet of room volume will be mounted in a central location at approximately 2 meters above floor, directed toward ceiling and operated at low speed for the entire period of sample collection.
   3. Air samples will be collected in areas subject to normal air circulation away from room corners, obstructed locations, and sites near windows, doors of vents.
   4. After air sampling pumps have been shut off, fans will be shut off.

1.07 SCHEDULE OF AIR SAMPLES

A. General: The number and volume of air samples taken and analytical methods used by the Owner will be in accordance with the following schedule. Sample volumes given may vary depending upon the analytical instruments used.

1.08 PHASE CONTRAST MICROSCOPY (PCM)

A. In each homogeneous Work Area, containing less than 1,000 cubic feet, containing less than 160 square feet, or containing less than 260 linear feet, after completion of all cleaning work, a minimum of seven (7) samples will be taken and analyzed as follows:
   1. Samples will be collected on 25 mm. cassettes with the following filter media:
      a. PCM: 0.8 mixed cellulose ester in a cassette with a 50 mm. conductive extension cowl.
   2. Number of PCM samples will be as follows:

LOCATION SAMPLED	NUMBER OF SAMPLES MINIMUM	MINIMUM VOLUME (LITERS)	RATE LPM
Each work area	5	1,200	1-10*
Field blank	2	N/A	Leave open in a sealed plastic bag or other clean container for duration of sampling

      1) *Less than 10 LPM for AHERA Projects

B. Analysis: Fibers on each filter will be measured using the most recent revision of NIOSH Method 7400, most recent version.

C. Fibers: referred to in this section include fibers regardless of composition as counted by the phase contrast microscopy method used.

D. Release Criteria: Decontamination of the work site is complete when every Work Area sample is at or below the Lower Limit of Quantization on the previous page. If any sample is above this limit then the decontamination is incomplete and re-cleaning per Section 017333 Project Decontamination is required.

1.09 TRANSMISSION ELECTRON MICROSCOPY (TEM)

A. In each homogeneous work area after completion of all cleaning work, a minimum of 13 samples will be taken and analyzed as follows:

LOCATION SAMPLED	NUMBER OF SAMPLES	RECOMMENDED VOLUME (LITERS)	RATE LPM
Each work area	5	1,300	1-10*
Outside each work area	5	1,300	1-10*
Work area blank	1	N/A	Open for 30 seconds
Outside blank	1	N/A	Open for 30 seconds
Laboratory blank	1	N/A	Do not open

   1. *Less than 10 LPM for AHERA Projects

B. Analysis will be performed using the analysis method set forth in the AHERA Regulation 40 CFR Part 763 Appendix A.

C. Asbestos Structures referred to in this Section include asbestos fibers, bundles, clusters or matrices, as defined by method of analysis.

D. Release Criteria: Decontamination of the work site is complete if either of the following two sets of conditions (1. or 2.) is met:
   1. Work Area Samples are below filter background levels

a. All Work Area sample volumes are greater than 1,199 liters for a 25 mm. sampling cassette.
b. The average concentration of asbestos on the five Work Area Samples does not exceed the filter background level of 70 structures per square millimeter of filter area.

2. Work Area Samples are not statistically different from Outside samples
a. All sample volumes except for blanks are greater than 560 liters for a 25 mm. sampling cassette.
b. The average asbestos concentration of the three blanks is below the filter background level of 70 structures per square millimeter of filter area.
c. Average asbestos concentrations in Work Area Samples are not statistically different from Outside samples, as determined by the Z-test calculation found in 40 CFR Part 763, Subpart E, Appendix A (Z is less than or equal to 1.65)

E. If these conditions are not met then the decontamination is incomplete and the cleaning procedures of Section 017333 Project Decontamination shall be repeated.

F. Termination of Analysis: If the arithmetic mean (average) asbestos concentration on the blank filters exceed 70 structures per square millimeter of filter area the analysis will cease and new samples collected.

1.10 LABORATORY TESTING

A. Phase Contrast Microscopy (PCM)
1. The services of a testing laboratory will be employed by the Owner to perform laboratory analysis of the air samples. A microscope and technician will be set up at the job site, or samples will be sent daily by overnight mail, so that verbal reports on air samples can be obtained within 24 hours. A complete record, certified by the testing laboratory, of all air monitoring tests and results will be furnished to the Owner and the Contractor.

B. Transmission Electron Microscopy (TEM)
1. Samples will be sent by overnight courier for analysis by Transmission Electron Microscopy. Samples may not be carried on weekends, so that samples shipped on Friday would arrive on the following Monday. Verbal results will normally be available within 24 hours after receipt of samples by the laboratory. All Transmission Electron Microscopy results will be available to the Contractor.

1.11 RE-SAMPLING

A. If, for any reason, the Final Air Clearance Samples do not meet the minimum clearance requirements, re-cleaning and re-sampling must be accomplished. The additional cost of re-sampling and re-analysis will be taken on by the Abatement Contractor and the method of sampling and analysis will be the same as that used for the first set of samples.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 017433

SECTION 017800
CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Project record documents.

B. Operation and maintenance data.

C. Extended Warranties.

1.02 RELATED REQUIREMENTS

A. Section 007200 - General Conditions: Performance bond and labor and material payment bonds, warranty, and correction of work.

B. Section 013000 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.

C. Section 017000 - Execution and Closeout Requirements: Contract closeout procedures.

D. Individual Product Sections: Specific requirements for operation and maintenance data.

E. Individual Product Sections: Extended warranties required for specific products or Work.

1.03 SUBMITTALS

A. Project Record Documents Affidavits:
   1. Owner's Standard Affidavits of Record Document Completion is in Section 006000 - Project Forms.
   2. Submit to Owner and Architect one electronic copy of Owner's Standard Affidavits of Record Document Completion as a Submittal into Owner's document management system prior to submittal of Final Application for Payment but no later than 28 days after Substantial Completion date.

B. Operation and Maintenance Data:
   1. For equipment, or component parts of equipment put into service during construction and operated by Owner, submit completed documents within 10 ten days after acceptance.
   2. Compile all operation and maintenance data for each Section and submit as one submittal for each Section.
   3. Submit to Owner and Architect one electronic copy of operation and maintenance data for each Section as a Submittal into Owner's document management system as required in paragraph 1.03.B.1 but no later than 42 days after Notice to Proceed.
   4. The submittal will be reviewed and returned with Owner's and Architect's comments or it will be accepted.
   5. Revise content of all returned documents as required by the comments.
   6. Submit one set of revised final documents for each Section in final form within 10 days after receipt of returned submittal.

C. Extended Warranties:
   1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents no later than 14 days after Substantial Completion date.
   2. Compile all extended warranties, which are warranties only exceeding one year in length, and submit as one submittal.
   3. Submit to Owner and Architect one electronic copy of extended warranties as a Submittal into Owner's document management system as required in paragraph 1.03.C.1.
   4. This submittal will be reviewed and returned with Owner's and Architect's comments or it will be accepted.
   5. Revise content of all returned documents as required by the comments.

6. Submit one set of revised final documents in final form within 10 days after receipt of returned submittal.
    a. For items of Work for which acceptance is delayed beyond Substantial Completion date, submit within 14 days after acceptance, listing the date of acceptance as the beginning of the warranty period.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

A. Record actual revisions to the Work on Construction Documents in the Record Documents Table in the Owner's document management system including:
    1. Drawings.
    2. Specifications.
    3. Addenda.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress.

E. Specifications:
    1. Identify the product manufacturer selected for the Project in the acceptable manufacturer's paragraph in each Section.
    2. Identify product substitutions or alternates utilized including manufacturer, manufacturer's website address, and model number.

F. Record Drawingsand Shop Drawings: Legibly mark each item to record actual construction including:
    1. Measured depths of foundations in relation to finish first floor datum.
    2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
    3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
    4. Field changes of dimension and detail.
    5. Details not on original Contract drawings.

3.02 OPERATION AND MAINTENANCE DATA

A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.

B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.

D. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

A. For Each Product, Applied Material, and Finish:
    1. Product data, with catalog number, size, composition, and color and texture designations.
    2. Information for re-ordering custom manufactured products.

B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.

C. Moisture protection and weather-exposed products: Include product data listing applicable reference standards, chemical composition, and details of installation. Provide recommendations for inspections, maintenance, and repair.

D. Additional information as specified in individual product specification sections.

E. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

3.04 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

A. For Each Item of Equipment and Each System:
   1. Description of unit or system, and component parts.
   2. Identify function, normal operating characteristics, and limiting conditions.
   3. Include performance curves, with engineering data and tests.
   4. Complete nomenclature and model number of replaceable parts.

B. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

C. Panelboard Circuit Directories: Provide electrical service characteristics, controls, and communications; typed.

D. Include color coded wiring diagrams as installed.

E. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.

F. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and trouble shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.

G. Provide servicing and lubrication schedule, and list of lubricants required.

H. Include manufacturer's printed operation and maintenance instructions.

I. Include sequence of operation by controls manufacturer.

J. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.

K. Provide control diagrams by controls manufacturer as installed.

L. Provide Contractor's coordination drawings, with color coded piping diagrams as installed.

M. Provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.

N. Provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.

O. Include test and balancing reports.

P. Additional Requirements: As specified in individual product specification sections.

3.05 EXTENDED WARRANTIES

A. Obtain extended warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.

B. Verify that documents are in proper form, contain full information, and are notarized.

C. Co-execute submittals when required.

D. Retain extended warranties and bonds until time specified for submittal.

END OF SECTION 017800

SECTION 017900
DEMONSTRATION AND TRAINING

PART 1 GENERAL

1.01 SUMMARY

A. Demonstration of products and systems where indicated in specific specification sections.

B. Training of Owner personnel in operation and maintenance is required for:
   1. All software-operated systems.
   2. HVAC systems and equipment.
   3. Plumbing equipment.
   4. Electrical systems and equipment.
   5. Conveying systems.
   6. Landscape irrigation.
   7. Items specified in individual product Sections.

C. Training of Owner personnel in care, cleaning, maintenance, and repair is required for:
   1. Items specified in individual product Sections.

1.02 RELATED REQUIREMENTS

A. Section 017800 - Closeout Submittals: Operation and maintenance manuals.

B. Other Specification Sections: Additional requirements for demonstration and training.

1.03 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Training Plan: Owner will designate personnel to be trained; tailor training to needs and skill-level of attendees.
   1. Notify Owner's Construction Supervisor not less than two weeks prior to start of training.
   2. Provide an overall schedule showing all training sessions.
   3. Provide the following information for each training session:
      a. Identification, date, time, and duration.
      b. Description of products and/or systems to be covered.
      c. Name of firm and person conducting training; include qualifications.
      d. Intended audience, such as job description.
      e. Objectives of training and suggested methods of ensuring adequate training.
      f. Methods to be used, such as classroom lecture, live demonstrations, hands-on, etc.
      g. Media to be used, such a slides, hand-outs, etc.
      h. Training equipment required, such as projector, projection screen, etc., to be provided and determination as to whether equipment will be provided by Owner or Contractor.

C. Training Manuals: Provide training manual for each attendee; allow for minimum of two attendees per training session.
   1. Include applicable portion of O&M manuals.
   2. Include copies of all hand-outs, slides, overheads, video presentations, etc., that are not included in O&M manuals.
   3. Provide one extra copy of each training manual to be included with operation and maintenance data.

1.04 QUALITY ASSURANCE

A. Instructor Qualifications: Familiar with design, operation, maintenance and troubleshooting of the relevant products and systems.
   1. Provide as instructors the most qualified trainer of those contractors and/or installers who actually supplied and installed the systems and equipment.

2. Where a single person is not familiar with all aspects, provide specialists with necessary qualifications.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 DEMONSTRATION - GENERAL

A. Demonstrations conducted during system start-up do not qualify as demonstrations for the purposes of this section, unless approved in advance by Owner.

B. Demonstration may be combined with Owner personnel training if applicable.

C. Operating Equipment and Systems: Demonstrate operation in all modes, including start-up, shut-down, seasonal changeover, emergency conditions, and troubleshooting, and maintenance procedures, including scheduled and preventive maintenance.
   1. Perform demonstrations not less than one week prior to Substantial Completion.
   2. For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.

D. Non-Operating Products: Demonstrate cleaning, scheduled and preventive maintenance, and repair procedures.
   1. Perform demonstrations not less than one week after Substantial Completion.

3.02 TRAINING - GENERAL

A. Conduct training on-site unless otherwise indicated.

B. Owner will provide classroom and seating at no cost to Contractor.

C. Provide training in minimum two hour segments.

D. Training schedule will be subject to availability of Owner's personnel to be trained; re-schedule training sessions as required by Owner; once schedule has been approved by Owner failure to conduct sessions according to schedule will be cause for Owner to charge Contractor for personnel "show-up" time.

E. Review of Facility Policy on Operation and Maintenance Data: During training discuss:
   1. The location of the O&M manuals and procedures for use and preservation; backup copies.
   2. Typical contents and organization of all manuals, including explanatory information, system narratives, and product specific information.
   3. Typical uses of the O&M manuals.

F. Product- and System-Specific Training:
   1. Review the applicable O&M manuals.
   2. For systems, provide an overview of system operation, design parameters and constraints, and operational strategies.
   3. Review instructions for proper operation in all modes, including start-up, shut-down, seasonal changeover and emergency procedures, and for maintenance, including preventative maintenance.
   4. Provide hands-on training on all operational modes possible and preventive maintenance.
   5. Emphasize safe and proper operating requirements; discuss relevant health and safety issues and emergency procedures.
   6. Discuss common troubleshooting problems and solutions.
   7. Discuss any peculiarities of equipment installation or operation.
   8. Discuss warranties and guarantees, including procedures necessary to avoid voiding coverage.
   9. Review recommended tools and spare parts inventory suggestions of manufacturers.
   10. Review spare parts and tools required to be furnished by Contractor.
   11. Review spare parts suppliers and sources and procurement procedures.

G. Be prepared to answer questions raised by training attendees; if unable to answer during training session, provide written response within three days.

END OF SECTION 017900