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Date: January 29, 2026

ADDENDUM NO. 1

2026 Roof & Exterior Wall Improvement Work at Various Locations

Metropolitan School District of Wayne Township

Construction Documents dated January 9, 2026

NOTICE TO ALL PLAN HOLDERS OF RECORD:

All bidders are instructed to read and to note the following described changes, corrections, clarifications, omissions, deletions, approvals and statements pertinent to the Contract Bid and Construction Documents. The following addendum items modify, change, delete from or add to, the requirements of the contract documents for this project. The articles contained in the addendum take precedence over the requirements of the previously published contract documents. Where any article of the contract specifications or any detail of the contract drawings is modified or any paragraph, subparagraph or clause thereof is modified or deleted by the articles contained in this addendum, the unaltered provisions of that article, paragraph, subparagraph or clause shall remain in effect. All Contractors shall acknowledge receipt of this Addendum in the space provided in the Bid Proposal Packet.

This Addendum No. 01 is issued in accordance with the provisions of "The General Conditions of the Contract for Construction", Article 1, "Construction Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

Item No. 1 – Clarifications and General Information:

A. Pre-Bid sign-in sheets are attached to this addendum.

B. Project One – Roof areas 1 and 9 tested positive for Asbestos. The specification sections are appended to this addendum.

C. Project Two - Patching material for the concrete spalls has been identified and is appended to this addendum.

D. Project Two – Additional painting has been added to the scope for the concrete patches.

E. Project Two – The waterproofing product has been changed and is appended to this addendum.

Item No. 2 – Specifications

Division 01 – General Requirements

1. **INSERT** the following specification sections:

    a. **011012 Summary of Asbestos**
    b. **014221 Asbestos Codes, Regulations, and Standards**

Division 02 – Existing Conditions

1. **INSERT** the following specification sections:

    a. **024100 Cutting and Patching Asbestos Containing Materials**
    b. **024120 Removal of Asbestos Containing Materials**
    c. **024125 Disposal of Asbestos Containing Materials**

Division 07 – Thermal and Moisture Requirements

Section 07 2430 – EIFS Repair and Restoration

c. Part 2- Products, Section 2.1 Manufacturers, Paragraph A, **INSERT** sub section:

2. Sto Corp

d. Part 2- Products, Section 2.2 Materials, Paragraph E, Section 1, **INSERT** sub section:

b. Sto Corp; "Sto Primer/Adhesive B"

Item No. 3 – Drawings

Sheet A104 Stout Field Elementary School Partial Roof Plan

1. **Roof Area 8:**

    REMOVE Notes "17" and "18" and **REPLACE** with **Notes "13" and "16"**

Sheet A201 Garden City Elementary Elevations

1. **Wall Plan Scope of Work; Note 8:**

   ADD "Use SikaTop 123 + for patching. Prep and paint new patches to match existing color." to the end of Note 8.

Sheet A202 Garden City Elementary Elevations

1. **D/A202 West Elevation:**

   REMOVE Note "4" from both locations and **REPLACE** with **Note "3"**

2. **E/A202 West Elevation:**

   REMOVE Note "4" and **REPLACE** with **Note "3"**

Sheet A203 Garden City Elementary Elevations

1. **Wall Plan Scope of Work; Note 9:**

   ADD "Use SikaTop 123 + for patching. Prep and paint new patches to match existing color." to the end of Note 9.

Sheet A204 Garden City Elementary Elevations

1. **Wall Plan Scope of Work; Note 9:**

   ADD "Use SikaTop 123 + for patching. Prep and paint new patches to match existing color." to the end of Note 9.

Sheet A205 Garden City Elementary Elevations

1. **Wall Plan Scope of Work, Note 7:**

   REMOVE "MiraSEAL Liquid Applied" and **REPLACE** with **"Sikagard 7600 VG"**

Item No. 4 – Questions

Project 1 – Roof Work

None

Project 2 – Wall Work

1. Question: What concrete patch material are you wanting us to use for the 16 concrete patches called out in the drawings?

   Answer: SikaTop 123 +

2. Question: Are we to paint these patched areas to match existing precast concrete color?

   Answer: Yes

3. Question: Does the backer rod for the sealant backing have to be closed cell or open cell?

   Answer: Closed Cell

4. Question: The waterproofing is called out in the drawings as MiraSEAL, will there be a spec section provided?

   Answer: This product has been removed and replaced with Sikagard 7600 VG

5. Question: Are we expected to protect any and all landscaping?

   Answer: Yes. Report any impeding bushes or trees to the Owner and they will do the trimming.

6. Question: Are we allowed to drive boom lifts/scissor lifts on sidewalks, grass and near tree roots if needed?

   Answer: Yes. Any ruts or damage will be the contractor's responsibility to repair.

7. Question: Will roof access be provided from the interior of the building?

   Answer: No. Roof access is the contractor's responsibility.

8. Question: Will there be a site plan provided for our lay down area for our dumpsters, materials and equipment?

   Answer: No site plan. Contractor will stage in the back of the East lot.

9. Question: Is overhead protection required at any doorways or walkways?

   Answer: No.

10. Question: Do we have to provide any signage about ongoing construction?

    Answer: No.

End of Addendum No. 1

Sign In Sheet

Project Name: 2026 Roofing and Exterior Wall Improvement Work at Various Locations
Owner: MSD of Wayne Township
Project No. 250156
Meeting: Pre-Bid Roof Work
Meeting Date: 1-20-26

Name	Company/Association	Phone/Cell	E-mail
Aaron Conrad	Etica	260-301-1219	aconrad@eticagroup.com
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Robert Neal	Horning Roofing	317-599-9335	rneal@horningroofing.com

Sign In Sheet

Project Name: 2026 Roofing and Exterior Wall Improvement Work at Various Locations
Owner: MSD of Wayne Township
Project No. 250156
Meeting: Pre-Bid Wall Work
Meeting Date: 1-20-26

Name	Company/Association	Phone/Cell	E-mail
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Keith Roberts	Wells Masonry Restoration INC	317 697-3023	keith.roberts@wellsmasonry.com
Jacob Paulus	Buckeye Const & Restn	513-575-7620	JPAULUS@BCRMCO.com
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JEFF LYMAN	MMI	9377739236	LYMAN@MMIRESTORATION.com

BUILDING TRUST

PRODUCT DATA SHEET

Sikagard®-7600 VG

TWO-COMPONENT POLYURETHANE, TROWEL GRADE, BITUMEN MODIFIED WATERPROOFING MEMBRANE

PRODUCT DESCRIPTION

Sikagard®-7600 VG is a two-component, vertical grade, liquid applied, asphalt extended polyurethane waterproofing membrane/coating system.

USES

- Waterproofing
- Tank Liner
- Pond Liner
- Cooling Tower liner
- Potable Water Containment
- Reservoirs
- Planters
- Plaza/Pool Decks with Vegetation
- Traffic system base coat over asphalt surface

CHARACTERISTICS / ADVANTAGES

- Flexible system that bridges cracks and joints
- Handles full water immersion conditions
- Impervious to water and aqueous chemicals
- Abrasion Resistant
- UV Stable

APPROVALS / STANDARDS

- Meets California VOC and AQMD Requirements, Including SCAQMD Areas
- ANSI / NSF 61 Approved for contact with Potable Water
- Complies with LADBS AC-L021: Acceptance Criteria for Below-Grade Exterior Damp-Proofing and Waterproofing Materials requirements for materials that are unexposed, unreinforced sheet membrane barrier.
- City of Los Angeles Research Report: 26199

PRODUCT INFORMATION

Packaging	**Component A** - 0.45 gal. pail **Component B** - 4.05 gal. pail **1 Unit** 4 x 4.5 gal. pail A+B
Shelf Life	12 months from date of manufacture in original, factory-sealed containers
Storage Conditions	Store indoors at a temperature between 60–95 °F (15–35 °C)
Appearance / Color	**Component A:** Transparent **Component B:** Black
Density	**comp. B**: 8 lbs/gal **comp. A:** 10.1 lbs/gal

	Mixed & Cured: 8.3 lbs/gal	
Solid content by mass	95 ± 2 %	(ASTM D-236)
Solid content by volume	89 ± 2 %	(ASTM D-2697)
Volatile organic compound (VOC) content	See Product Safety Data Sheet	

TECHNICAL INFORMATION

Elongation at Break	450 % ± 50 %	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Service Temperature	-60–220 °F	
Water Vapor Transmission	0.03 Perms	(ASTM E-96, Procedure B - Wet Cup) 75 °F (24 °C) 50 % R.H.
Chemical Resistance	Resistance to aqueous chemicals and waste water. Please see chemical resistance chart.	
Resistance to Weathering	done for > 5000 h	(ASTM D-822) 75 °F (24 °C) 50 % R.H.
Behavior after Artificial Weathering	Weathering (ASTM D822) done for > 5000 hrs Tensile Strength (ASTM D-412) ..... 1000 psi ± 50 psi 5.86 Mpa ± 0.3 Mpa Tear Strenght (Die C, ASTM D-624) .....180 ± 50 pli Hardness (ASTM D-2240) ..... 60 ± 5 Shore A Adhesion to Concrete (dry) Elcometer ..... 350 psi Abrasion Resistance - Weight Loss (ASTM D4060) ..... 1.2 mg loss Deflection Temperature (ASTM D648) .....pass Elastomeric Waterproofing (ASTM C836) .....exceeds (ASTM C957) ..... exceeds Extension to Break (ASTM D2859) ..... 450 ± 100 Liner Performance Crack Bridging ..... 10 cycles @ - 15°F > 1/8"; After heat aging > 1/4" Liner Weight (60 mil wet film thickness) .....30 lbs/100 sq.f. Mullen Burst Strenght (ASTM D751)..... 50 mil 155 psi Recovery from 100% Extention after 5 minutes ..... 98% after 24 hours .....100% Softening Point, Ring & Ball (ASTM D36) ..... >400°F Deflection Temperature (ASTM D648) ..... -60°F	

APPLICATION INFORMATION

Coverage	48 ft²/gal results in 30 ± mils DFT (standard per 1 coat) 24 ft²/gal results in 60 ± mils DFT 16 ft²/gal results in 90 ± mils DFT 12 ft²/gal results in 120 ± mils DFT
Pot Life	20 minutes (standard ambient conditions 70 F° , 50% humidity)

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- **On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pin holing may occur.**
- **Do not apply when substrate is in direct sunlight.**
- Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.
- Cured Sikagard®-7600 VG may be placed in service within 24 hours for non-aggressive service and no potable water. Other service applications may require a cure time of a minimum 96 hours or more. Please contact Sika Technical Service for recommended application.
- This product is available only in black color. Can be exposed to direct sunlight. Initially after application it is shiny black than after few months it will turn dull after being exposed to direct sunlight.
- Observe the curing time before immersion into into and service in potable water. Please see Desinfection and cleaning guide.
- To avoid dew point conditions during application, relative humidity must be no more than 95 % and substrate temperature must be at least 5 °F (3 °C) above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 41 °F (5°C); maximum is 95 °F (35 °C). Surface temperatures must be no higher than 110 °F (43 °C).
- New concrete must be cured a minimum of 28 days prior to application .
- Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition should be checked using ASTM D-4263 (Polyethylene Sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- Precautions should be taken to prevent vapors and/or odors from entering the building/ structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and other means of vapor/odor ingress during application and cure. Please see Applying within Confined Spaces manual.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing, subsequent approval by Technical Services is required.
- Do not thin or part mix the material. Do not mix Sikagard® 7600 VG by hand; mechanically mix only.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete overlays should not be covered with Sika membrane systems without additional deck evaluation to determine substrate moisture content and subsequent approval by Technical Services.
- If Sikagard®-7600 VG is used as split slab waterproofing membrane or buried membrane cover the final coat of Sikagard®-7600 VG with an approved drainage mat (Sika® Drain 420) or protection board.
- Application over asphalt as traffic coating Base Coat : Please contact Sika Technical Service . Always use Recoat primer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Surface must be clean, dry and sound with an open texture. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to application.

Concrete - New concrete must be cured a minimum of 28 days prior to application. Old concrete must be free of loose aggregate, dirt and be dry. New and old concrete should be Shot-, Water- or Abrasive-blasted. Grease spots and oil should be chemically cleaned with appropriate cleaners or mechanically removed.

Plywood - The only acceptable grade of plywood is APA rated exterior grade or better. The appearance and physical characteristics of the plywood and grade should be considered. Plywood should be new or cleaned and sanded.

Metal - Metal must be in sound condition. The surface should be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products and other foreign matter. Be aware of dew point and check it before every application on metal surface.

- **Ferrous Metals:** Must be prepared to SSPC-SP6/NACE 3. For areas where SSPC-SP6/NACE 3 is prohibited or not feasible, substrate can be thoroughly cleaned by grinding or other power tools per SSPC-SP11.
- **Non-Ferrous Metals:** Prepare to a bright metal surface. Wire brushing can be used for soft metal such as copper or lead.
- **Galvanized Steel:** White rust must be removed from galvanized steel, with care taken not to damage or remove the galvanizing.
- **Stainless Steel:** Must be mechanically abraded or ground to create an appropriate anchor profile.
- **Immersion Service:** Must be prepared to a near white metal finish per SSPC-SP10/NACE 2.

Asphalt - New asphalt must be cured a minimum of 28 days prior to application. Old asphalt must be free of loose aggregate, dirt and must be dry. New and old asphalt should be Shot-, Water- or Abrasive-blasted. Lower ambient temperature will help to make cleaning process more effective. Grease spots and oil must be cleaned with appropriate cleaners or mechanically removed.

For applications over asphalt contact Sika Technical Services prior to application. Due to age and porosity of asphalt coverage rates can change drastically.

PRIMING

To promote adhesion and minimize outgassing, priming is recommended on all surfaces.

For applications with primer over concrete, the primer used will depend on the moisture level of the concrete. Measure the moisture content of concrete substrate with a Tramex CME or CMExpert type concrete moisture meter.

Do not prime over an existing crack and joint detail coats.

PRIMER SELECTION

Sikadur®-22 Lo-Mod FS - For concrete with a maximum moisture content of 4 % by weight, plywood decks, aluminum, steel, carbon steel, stainless steel, and existing polyurethane coatings, apply a single coat application of Sikadur®-22 Lo-Mod FS with a flat squeegee or roller at approximately 160 sf/gal. Apply evenly without puddling. Allow primer to cure until tack-free, typically 2-4 hours (at 75°F (24°C) 50% R. H). Sikadur®-22 Lo-Mod FS should be overcoated within 36 hours after tack-free. Refer to a separate product data sheet for additional information.

Sikalastic® FTP Lo-VOC Primer - For plywood decks, concrete with a maximum moisture content of 5 % by weight, apply a single coat of Sikalastic® FTP LoVOC Primer with a flat squeegee or roller at approximately 175 sf/gal. Work primer well into the substrate to ensure adequate penetration and sealing. Apply evenly without puddling. Refer to separate primer data sheet for additional information.

Sikalastic® MT Primer - For concrete with a maximum moisture content of 5 % by weight, and for metal flanges and penetrations, apply a single coat application of Sikalastic® MT Primer with a flat squeegee or roller at approximately 175 sf/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic® MT Primer with a flat squeegee or phenolic resin roller at approximately 175 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing. Apply evenly without puddling. Refer to a separate primer data sheet for additional information.

Sikalastic® EP Primer/Sealer- For Wood (timber, plywood) and Metal (steel, carbon steel, galvanized steel, stainless steel, aluminum, brass, lead, copper). Apply by brush or phenolic resin core roller at the recommended rate,100-250 sf/gal depending on the substrate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling. Refer to separate primer data sheet for additional information.

Sikalastic® PF Lo-VOC Primer - For concrete with a porous or rough surface and a maximum moisture content of 4 % by weight, plywood decks and steel, use Sikalastic® PF Lo-VOC Primer. Apply Sikalastic® PF Lo-VOC Primer with a flat squeegee or phenolic resin core roller at approximately 200 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Refer to separate primer data sheet for additional information.

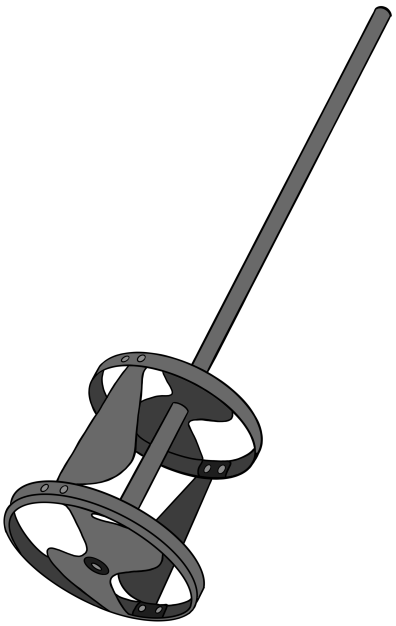
NOTE: For rough or porous concrete or when outgassing is a concern, use Sikadur® 22 Lo-Mod FS, Sikalastic FTP LoVOC or Sikalastic® PF LoVOC Primer at an approximate rate of 80-160 sq.ft/gal. This rate may vary on the porosity of the substrate. The surface must be totally covered with primer with no dry spots or spots where the primer has completely absorbed into the substrate, multiple coats may be required. Allow primer to become tack free before proceeding to the next phase.

MIXING

It is essential that proper mixing methods and tools are used to ensure proper application of Sikagard®-7600 VG.

- **Mixing Drill:** Mechanical Mixer (400-600 rpm)
- **Mixing Paddles:** Jiffy Style Paddle (5-50 Gallon Model) or Mud Mixing Paddle (9-5/8" WIDE x 6-1/4" DEEP)
- **Premixing:** Premix each pail of Sikagard®-7600 VG Part-B (4.05 gal.) by using a mechanical mixer with a jiffy style paddle or a mud mixing paddle at slow speed for a minimum of 1.5 minutes to ensure Sikagard®-7600 VG Part B is a homogeneous mixture in pail.
- **Mixing A & B component:** After premixing continue to mix Sikagard®-7600 VG Part B, slowly add one 0.45 gallon pail of Sikagard®-7600 VG Part-A to the vortex created while mixing Sikagard®-7600 VG Part B. Once Part-A has been added, mix continuously for 3 minutes.

Take care not to allow entrapment of air into the material. Ensure mixed evenly including sides of pail. Do not mix in an aggressive up and down motion. Do not estimate mixing time to avoid any errors. Do not thin. Do not hand mix. Mix the whole pail. Do not batch down.



Top: Jiffy Style Paddle **Bottom**: Mud Mixing Paddle

APPLICATION

Detailing:

For moving and non-moving cracks less than 1/16" width: Apply a 30 mil detail coat of Sikagard®-7600 VG, extending 2" on either side and centered over the crack.

For cracks 1/16" width or greater and less than 1" width: Must be routed to at least ¼" by ¼", and sealed with an appropriate Sikaflex® sealant, installed per sealant Product Data Sheet, and coated with a 30 mil detail coat of Sikagard®-7600 VG, extending 2" on either side and centered over the crack. Non-moving cracks can be filled with compatabile rigid repair materials.

NOTE: Cracks may indicate a structural issue and should be addressed by a structural engineer or appropriate design professional.

For joints 1/16" or greater and less than 1.5" width: Joints should be sealed with the appropriate Sikaflex® sealant, installed per sealant Product Data Sheet, and coated with a 30 mil detail coat of Sikagard®-7600 VG, extending 2" on either side and centered over the crack.

For expansion joints 1.5" or greater width: Should be treated as expansion joints and brought up through the Sikagard®-7600 VG membrane and/or Emseal

Expansion, Sikadur Combiflex SG or other appropriate joint sealing system should be used. Contact Sika Technical Services for recommendations prior to application.

Fabric reinforcement - Sika does not require reinforcing of the detail coat when going over cracks and joints. In situations where reinforcing detail coats is required, use a 3" wide strip of Sika Flexitape Heavy as the reinforcing. Please see the Sika Flexitape Heavy product data sheet for installation instructions.

Application:

Sikagard®-7600 VG can be applied at different thicknesses to accommodate different application and warranty requirements. For best results Sikagard®-7600 VG should be applied in two coats. Please follow the coverage rate section above to determine proper coverage for 30, 60, 90 mil coating layers. Allow to cure (4-6 hours or until membrane) after initial coat and before proceeding. Sikagard®-7600 VG should be applied in the shade or during evening hours. When applying in direct sunlight it is possible that the surface of the coating can cure too quickly and entrap solvent resulting in blisters. Sikagard®-7600 VG can be applied over both horizontal and vertical surface. Apply using a 3/8" nap roller or notched squeegee and back-roll . Please note that pot life for Sikagard®-7600 VG is only 20 minutes. Sikagard®-7600 VG can be applied on horizontal surfaces up to 120 mils and on vertical surfaces up to 90 mils. Sikagard®-7600 VG can be applied to an overhead surface. Apply using a trowel and backroll.

Recoat: After application at 75 °F (24 °C) and 50 % R.H, second or multiple coats must be completed within 16 hours from the start of the previous applications of Sikagard®-7600 VG. If a rain event occurs during the 16 hour window or the 16 hour window is missed and does not go beyond 72 hours or get covered with significant dirt or other contamination, it is necessary to solvent wipe with xylene, acetone or other approved solvent, and prime with Sikalastic Recoat Primer. Once beyond 72 hours from the start of the previous applications of Sikagard®-7600 VG, it is necessary to clean, abrade, solvent wipe with xylene, acetone or other approved solvent, and prime with Sikalastic Recoat Primer.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling 1-800-933-7452.

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BUILDING TRUST

PRODUCT DATA SHEET

SikaTop®-123 Plus

Two-component, polymer-modified, cementitious, non-sag mortar plus Sika FerroGard® 901 penetrating corrosion inhibitor

PRODUCT DESCRIPTION

SikaTop®-123 Plus is a two-component, polymer-modified, Portland cement-based, fast-setting, non-sag mortar. It is a high performance repair mortar for vertical and overhead surfaces and offers the additional benefit of Sika FerroGard® 901, a penetrating corrosion inhibitor included in its formulation.

USES

- On grade, above and below grade on concrete and mortar.
- On vertical and overhead surfaces.
- As a structural repair material for parking structures, industrial plants, walkways, bridges, tunnels, dams and ramps.
- Approved for repairs over cathodic protection systems

CHARACTERISTICS / ADVANTAGES

- Extremely low shrinkage proven by four industry standard test methods.
- High compressive and flexural strengths.
- Increased freeze/thaw durability and resistance to deicing salts.
- Increased density - improved carbon dioxide resistance (carbonation) without adversely affecting water vapor transmission (not a vapor barrier).
- Enhanced with Sika FerroGard® 901, a penetrating corrosion inhibitor - reduces corrosion even in the adjacent concrete.
- Compatible with coefficient of thermal expansion of concrete - Passes ASTM C 884.

APPROVALS / STANDARDS

- USDA certifiable for incidental food contact
- ANSI/NSF Standard 61 potable water approved compliant.
- Tested per ICRI Guidline NO. 320.3R for inorganic repair material data sheet protocol

PRODUCT INFORMATION

Packaging	Component A	1 gal (3.68 L) jug - 4/carton
	Component B	44 lb. (20 kg) bag
Appearance / Color	Gray powder	
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging	
Storage Conditions	Store dry at 40–95 °F (4–35 °C).	

Protect Component ‘B’ from moisture. If damp, discard material
Protect Component ‘A’ from freezing. If frozen, discard.

TECHNICAL INFORMATION

Compressive Strength	1 day		3,000 psi (20.7 MPa)	(ASTM C-109) 73 °F (23 °C) 50 % R.H.
	7 days		4,000 psi (27.6 MPa)	
	28 days		6,000 psi (41.4 MPa)	
Modulus of Elasticity in Compression	2.94 x 10^6 psi			(ASTM C-469)
Flexural Strength	28 days		1,500 psi (10.3 MPa)	(ASTM C-293) 73 °F (23 °C) 50 % R.H.
Splitting tensile strength	28 days		900 psi (6.2 MPa)	(ASTM C-496) 73 °F (23 °C) 50 % R.H.
Tensile Adhesion Strength	28 days		2,000 psi (13.8 MPa)	(ASTM C-882 modified)
	* Mortar scrubbed into substrate at 73 °F (23 °C) and 50 % R.H.			
Pull-Out Resistance	28 days		500 psi (3.4 MPa) Substrate failure	(ASTM C-1583)
Shrinkage	28 days	1x1x11-1/4'' specimen	0.05 %	(ASTM C-157, mod. ICRI 320.3R)
	28 days	3x3x11-1/4'' specimen	0.038 %	
Ring test			> 70 days	(ASTM C-1581)
	Average Max Strain		- 36 µstrain	
	Average Stress Strain		4.92 psi/day	
	Potential for Cracking		Low	
Baenziger block	90 days		No cracking	
Freeze-Thaw Stability	300 cycles		98 %	(ASTM C-666)
Rapid Chloride Permeability	28 days		< 500 C	(ASTM C-1202 AASHTO T-277)

APPLICATION INFORMATION

Fresh mortar density	132 lb/ft³ (2.2 kg/l)	(ASTM C-138)
Coverage	0.39 ft³ (0.01 m³) per bag (Coverage figures do not include allowance for surface profile and porosity or material waste)	
Layer Thickness	**Min.**	**Max.**
	1/8 " (3 mm)	1.5" (38 mm)
Product Temperature	65–75 °F (18–24 °C)	
Ambient Air Temperature	> 45 °F (7 °C)	
Substrate Temperature	> 45 °F (7 °C)	
Set Time	15 - 40 min.	(ASTM C-266)
Final set time	< 60 min.	(ASTM C-266)

Finishing time	20–60 minutes Note: All times start after adding Component 'B' to Component 'A' and are highly affected by temperature, relative humidity, substrate temperature, wind, sun and other job site conditions.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

0 g/l (EPA method 24)

LIMITATIONS

- Do not use solvent-based curing compound.
- Size, shape and depth of repair must be carefully considered and consistent with practices recommended by ACI or ICRI.
- For additional information on substrate preparation, refer to ICRI Guideline No. 310.2R.
- If aggressive means of substrate preparation is employed, substrate strength should be tested in accordance with ACI 503 Appendix A prior to the repair application.
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® 32, Hi-Mod.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Surface preparation

- Surface must be clean and sound. Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired.
- Be sure repair area is not less than 1/8" (3 mm) in depth.
- Preparation work should be done by high pressure water blast, scabbler or other appropriate mechanical means to obtain an exposed aggregate surface profile of ±1/16" (1.6 mm) (CSP-5).
- To ensure optimum repair results, the effectiveness of decontamination and preparation should be assessed by a pull-off test.
- Saw cutting of edges is preferred and a dovetail is recommended.
- Substrate should be Saturated Surface Dry (SSD) with clean water prior to application. No standing water should remain during application.

Priming

- Reinforcing steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use Sika® Armatec® 110 EpoCem (consult PDS).

- Concrete Substrate:
  - Prime the prepared substrate with a brush or sprayed

applied coat of Sika® Armatec® 110 EpoCem (consult PDS).
- Alternately, a scrub coat of SikaTop®-123 Plus can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.

MIXING

- Pour Component 'A' into mixing container.
- Add Component 'B' while mixing continuously.
- Mix mechanically with a low-speed drill (400–600 rpm) and mixing paddle or mortar mixer.
- Mix to a uniform consistency, maximum 3 minutes.
- Manual mixing can be tolerated only for less than a full unit. Thorough mixing and proper proportioning of the two components is necessary.

APPLICATION

- SikaTop®-123 Plus must be scrubbed into the substrate, filling all pores and voids.
- Force material against edge of repair, working toward center.
- After filling repair, consolidate, then screed.
- Material may be applied in multiple lifts.

Multiple lifts

- Where multiple lifts are required score top surface of each lift to produce a roughened surface for next lift.
- Allow preceding lift to reach initial set, 30 minutes minimum, before applying fresh material.
- Substrate should be Saturated Surface Dry (SSD) with clean water prior to application. No standing water should remain during application.
- Scrub fresh mortar into preceding lift.
- Allow mortar or concrete to set to desired stiffness, then finish with wood or sponge float for a smooth surface.

CURING TREATMENT

- As per ACI recommendations for Portland cement concrete, curing is required.
- Moist cure with wet burlap and polyethylene, a fine mist of water or a water based* compatible curing compound (ASTM C-309).
- Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coatings.
- Moist curing should commence immediately after finishing.
- Protect freshly applied mortar from direct sunlight, wind, rain and frost.

* Pretesting of curing compound is recommended.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always

read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling 1-800-933-7452.

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C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537

SECTION 011012 – SUMMARY - ASBESTOS

PART 1 - GENERAL

1.4 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.

1.5 SUMMARY

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

1. Type of Asbestos Work.
2. Schedule of laboratory test results.

B. Related Requirements:

1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities.
2. Division 1 Section "Reference" for related references and definitions.
3. Division 1 Section "Codes, Regulations and Standards – Asbestos Abatement" for governmental regulations and industry standards.
4. Division 1 Section "Regulated Areas" for procedures for identifying and controlling areas where asbestos abatement is done
5. Division 2 Section “Cutting and Patching – Asbestos Containing Materials” for the method of removal.
6. Division 2 “Removal of Asbestos – Containing Materials” for the removal procedures of removing asbestos materials.
7. Division 2 “Disposal of Asbestos Containing Material” for the disposal procedures of disposing of asbestos material.

1.6 SUBMITTALS

A. Plan of Action: submit a written plan detailing the procedures proposed to comply with the requirements of this specification. The plan should include the location and layout of decontamination areas, sequencing of asbestos work, coordination of trades involved in the work, methods used to ensure the safety of building occupants, disposal plan including the location of approved disposal site and methods to control pollution. Describe the use of HEPA ventilation system, removal method to prohibit visible emissions in the work area, and the packaging of all removed asbestos materials. Plan must be approved prior to award of Contract between the Owner and the Contractor.

1.7 TYPE OF ASBESTOS WORK

A. The Work of the Contract can be summarized briefly and without force and effect upon the Contract Documents as follows:

1. The Work includes the **Non-Friable** removal of asbestos-containing materials according to but not limited to the requirements of the following specification

B. Potential Asbestos Hazard: During the contracted Work, the disturbance or dislocation of asbestos-containing materials may be encountered that may cause asbestos fibers to be released, thus creating a potential health risk. All workers and subcontractors at the job site shall be apprised of the hazard and the need to follow proper work procedures.

1. Where during the work, said workers and subcontractors may encounter, disturb or perform work in the vicinity of any known and identified asbestos-containing materials, they shall take all appropriate measures to protect themselves and building occupants from potential hazard of exposure to airborne asbestos. These measures shall include the procedures and methods described herein and compliance with regulations of applicable Federal, State and local agencies.

1.5 LABORATORY TEST SUMMARY

A. Asbestos Containing Materials: The following is a summary of laboratory results by buildings. This summary identifies where known asbestos is present within homogeneous areas of the various roof areas where work is to take place. Bulk samples were taken for laboratory analysis from all identified roof areas. If any other materials are found, which may be suspect to contain asbestos, notify the Owner's Representative immediately. A complete copy of the asbestos laboratory analysis report is appended to the end of this specification section:

1. Stout Field Elementary School:

a. Roof Area 1:

1. SM-25021, built-up roof membrane – Positive (+)

b. Roof Area 9:

1. SM-25022, built-up roof membrane top layer – Positive (+)
2. SM-25023, built-up roof membrane bottom layer – Positive (+)

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011012

ACM ENGINEERING & ENVIRONMENTAL SERVICES WWW.ACMENV.COM
26598 U.S. 20 WEST, SOUTH BEND, IN 46628 P: (574)234-8435 F: (574)234-6800

ANALYSIS OF SUSPECT ASBESTOS CONTAINING BUILDING MATERIALS

THE REPORT:

The attached report quantifies the fibrous materials found in each sample submitted for analysis. A complete fibrous analysis of samples is given for each sample followed by a breakdown analysis of any sub-samples for heterogeneous material. The percentages reported are based on Compared Visual Estimate (CVE) with known sample values.

- ***The first column*** is the client sample number identification.
- ***The second column*** is the laboratory sample number. The laboratory number for the overall sample analysis is a 7-digit number. The laboratory number followed by a letter designation (A, B, C. etc.) indicates a sub-sample analysis.
- ***The third column*** is the sample identification, which indicates whether the sample is homogeneous or heterogeneous, the color of the sample, and the physical description (cementitious, fibrous, cloth, etc.)
- ***The fourth column*** indicates the types and percentages of asbestos identified, if any.
- ***The fifth column*** indicates the types and percentages of cellulose (CELL) non-asbestos identified.
- ***The sixth column*** indicates the types and percentages of non-fibrous, non-asbestos material (NON-FIB NON-ACBM) identified.
- ***The seventh column*** indicates the types and percentages of fibrous non-asbestos material (FIB NON-ACBM) in the sample or sub-sample.

COMPONENTS DESCRIPTION:

ASBESTOS MATERIALS		NON-ASBESTOS MATERIALS			
A	= Amosite	CF	= Ceramic Fibers	N	= Nylon
AC	= Actinolite	CO	= Cotton	O	= Other
AN	= Anthophylite	G	= Fibrous Glass	S	= Synthetics
C	= Chrysotile	H	= Hair	V	= Vermiculite
CR	= Crocidolite	M	= Mineral Wool		
T	= Tremolite				
----	= No Asbestos Detected				

DISCUSSION AND RECOMMENDATIONS:

In order to reduce the risk of introducing asbestos fibers into the air, care should be taken not to disturb the asbestos containing building materials. If renovation, demolition or other activities might disturb known asbestos containing building materials, a reputable asbestos consultant should be contacted to help effectively design and implement an asbestos management program.

METHOD:

All analyses and quantifications are performed in accordance with the U.S. Environmental Protection Agency's "Method for the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116. ACM Engineering & Environmental Services is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the scope of accreditation under NVLAP lab code 101977-0. These methods utilize stereoscopical examination of bulk samples, as well as utilizing the polarized light microscope (PLM). To determine the refractive index, the central stop dispersion staining method is used, as well as matching with refractive index oil and using light matching the sodium D line wavelength. Identification of non-asbestos species is less rigorous, as they are of secondary interest.

Gross samples are examined under a 10X or 20X stereoscope where homogeneity (need for sub-samples), texture and/or any other distinguishing characteristics are determined. Any fibrous material is mounted in high dispersion oil for further microscope examination utilizing PLM. Any possible asbestos fibers are analyzed for morphology, color and pleochroism, index of refraction parallel and perpendicular to elongation, birefringence, extinction characteristic and sign of elongation, and any other distinguishing characteristics observed.

The percentage of asbestos and other fibrous materials are then determined according to sample area coverage and thickness. The limit of quantitation is one percent (1%). The above is recorded on the laboratory analysis sheet and maintained for three years. The error involved for reported percentages of fibrous is 100% error for 1% to 5%, 50% error for 5% to 20%, and 25% error for 20% to 100%. All percentages will be reported in a range indicating error or a single value, in which case the above error should be applied. When the value 1% or greater is reported this indicates asbestos is present in the sample.

SAMPLE RETENTION:

Samples will be retained for 6 months unless otherwise instructed. After this period, the sample(s) will be disposed of appropriately. Upon written request, the samples will be returned by mail or delivery for a nominal fee to cover postage and handling. There would be no charge for samples picked-up at ACM Engineering & Environmental Services.

ACM ENGINEERING & ENVIRONMENTAL SERVICES WWW.ACMENV.COM
26598 U.S. 20 WEST, SOUTH BEND, IN 46628 **P: (574)234-8435 F: (574)234-6800**

CLIENT: MSD Wayne Township
Stout Field Elementary School
3820 W Bradbury Ave.
Indianapolis, IN 46241

LOCATION: Stout Field Elementary School
3820 W Bradbury Ave.
Indianapolis, IN 46241

ANALYSIS METHOD: EPA/600/R-93/116 & 40 CFR Part 763 Appendix E to Subpart E
NVLAP LAB CODE: 101977-0
MATRIX: Bulk
Sample Date: 12/18/25
Analysis Date: 1/8/26
ACM PROJECT #: 39412

CLIENT SAMPLE #	LAB SAMPLE #	SAMPLE IDENTIFICATION	ASBEST.	CELL.	NON-FIB. NON-ACBM	FIB. NON-ACBM
SM-25021 HA#1	2515873	M/O ROOFING- NORTH PERIMETER-FASCIA	16%C	64%	20%	----
SM-25022 HA#9	2515874	M/O ROOFING-SOUTHEAST CORNER OF ROOF- TOP LAYER	14%C	68%	18%	----
SM-25023 HA#9	2515875	M/0 ROOFING-SOUTHEAST CORNER OF ROOF-BOTTOM LAYER	13%C	68%	19%	

ACM RECOMMENDS POINT COUNTING ANALYSIS ON ALL BULK SAMPLES WITH LESS THAN 10% (<10%) ASBESTOS CONTENT.

Microscopist: _____ Title: Laboratory Director Date: 1/8/26

ASBESTOS ANALYSIS REPORT

Etica GROUP

Project Name: 2026 Roof & Wall Work - MSD Wayne Township
Building: Stout Field Elementary School
Address: 3820 W Bradbury Ave.
Indianapolis, IN 46241

Building Contact:
Bldg. Contact Phone:

Project Number: 250156
Inspector: Sean Mettert
Date: 12/18/2026
email: smettert@eticagroup.com
Phone: (260) 908-5468

Sample Number	Material Type	HA #	Functional Space	Sample Location	Average Material Condition		Total Amt. of material		**********Lab Use********** Type of Asbestos	% Asbestos	% Other Material
SM-25021	M/O Roofing	1	Roof	North Perimeter @ Fascia	(No Damage) Damage Significant Damage	Friable (Non-Friable)					
SM-25022	M/O Roofing	9	Roof	Souteast Corner of Roof Area - Top Layer	(No Damage) Damage Significant Damage	Friable (Non-Friable)					
SM-25023	M/O Roofing	9	Roof	Souteast Corner of Roof Area - Bottom Layer	(No Damage) Damage Significant Damage	Friable (Non-Friable)					
					No Damage Damage Significant Damage	Friable Non-Friable					
					No Damage Damage Significant Damage	Friable Non-Friable					

Relinquished By: _____ (signature) **Date:** 1-6-26

Received By: Malhayla H (signature) **Date:** 1/7/26

Relinquished By: Tony McDaid (signature) **Date:** 1/8/26

ACM Project #39412

Corporate Office: 8720 Castle Creek Pkwy E Dr. Suite 400, Indianapolis, IN 46250 Phone: 317.466.9520 Fax: 317.536.3930
Northern Indiana Office: 10848 Rose Avenue, Suite 4, New Haven, Indiana 46774

SECTION 014221 – ASBESTOS CODES, REGULATIONS AND STANDARDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes administrative and procedural requirements for governmental regulations and industry standards. It also includes notices and permits which either needs to be applied for or received and given to said governmental agencies before start of work.

1. Work practices and procedures as set forth per applicable codes, regulations and standards
2. Obtaining permits, licenses, inspections, release and similar documents, including payments and statements as set forth per applicable codes, regulations and standards.

B. Related Sections include the following:

1. Division 1 Section "References" for procedures for common definitions and terms.

C. Unless more explicit or stringent requirements are written into the Contract Document, all applicable codes, regulations and standards shall have the same force and effect, and are to be made part of the Contract Documents per reference, as if copied or published copies were bound herein to the Contract Documents.

1.3 REQUIREMENTS

A. The following Federal Requirements for governing asbestos abatement work and/or hauling and disposal of asbestos waste material include but are not limited to the following:

1. OSHA: U.S. Department of Labor, Occupational Safety and Health Administration (OSHA):

a. Construction Industry Asbestos Standard: Final Rule Title 29, Part 1926, Section 1101 of the Code of Federal Regulations (current edition).

b. Occupational Exposure to Asbestos – Tremolite, Anthophyllite and Actinolite; Final Rules Title 29, Part 1910, Section 1001 and Part 1926, Section 58 of the Code of Federal Regulations.
c. Respiratory Protection Title 29, Part 1910, Section 134 of the Code of Federal Regulations.
d. Construction Industry Title 29, Part 1926, of the Code of Federal Regulations.
e. Access to Employee Exposure and Medical Records Title 29, part 1910, Section 2 of the Code of Federal Regulations.
f. Hazard Communication Title 29, Part 1910, Section 1200 of the Code of Federal Regulations.
g. Specifications for Accident Prevention Signs and Tags Title 29, Part 1910, Section 145 of the Code of Federal Regulations.

2. DOT: U.S. Department of Transportation:

a. Hazardous Substances Title 29, Part 171 and 172 of the Code of Federal Regulations.

3. EPA: U.S. Environmental Protection Agency (EPA):

a. Asbestos Abatement Project, Worker Protection Rule Title 40 Part 763, Sub-part G of the Code of Federal Regulations.
b. Asbestos Hazards Emergency Response Act (AHERA) Regulation Asbestos Containing Materials in Schools Final Rule & Notice Title 40, Part 763, Sub-part E of the Code of Federal Regulations.
c. Training Requirements of AHERA Regulation Asbestos Containing Materials in Schools Final Rule and Notice Title 40, Part 763, Sub-part E, Appendix C of the Code of Federal Regulations.
d. National Emissions Standards for Hazardous Air Pollutants (NESHAP) National Emission Standard for Asbestos Title 40, Part 61, Sub-part A and Sub-part M (revised Sub-part B) of the Code of Federal Regulations.

B. The following State Agencies Requirements for governing asbestos abatement work and/or hauling and disposal of asbestos waste material include but are not limited to the following:

1. Indiana Department of Labor (IOSHA)
402 West Washington Street, Room W195
Indianapolis, Indiana 46204
2. Indiana Department of Environmental Management
Office of Air Management (OAM) Asbestos Section
105 South Meridian Street
Indianapolis, Indiana 46206-6015
3. Indiana Department of Environmental Management
Office of Solid and Hazardous Waste Management
105 South Meridian Street
Post Office Box 6015

C. Abide by all local requirements, which the project is in, that govern asbestos abatement work and/or hauling and disposal of asbestos containing materials.

1.4 SUBMITTALS

A. Prior to start of work, send written notification as required by both State and Local regulations for any work on Asbestos Containing Materials.

B. Copy of Waste Haulers Permit.

C. For the Owner's record, submit copies of all permits, licenses, certifications, inspection reports and similar documents in conjunction with the compliance of Federal, State and Local regulations, including the following:

1. Submit copies of the current State and Local Regulations applicable to the Work.
2. Submit copies of all notices requires by Federal, State and Local Regulations, with proof of transmittal to said agency requiring the notice.
3. Submit copies of all State and Local license and permits required to perform the work under this contract.

1.5 CONTRACTOR RESPONSIBILITIES

A. Contractor shall assume full responsibility and liability for compliance with all Federal, State and Local regulations regarding all work practices, hauling, disposal and protection of its workers, Sub-contractor workers, Owners personal, Visitors and general population in areas adjacent to the site. Contractor is responsible for providing medical examinations, as well as, maintaining all medical records of personnel as required by the applicable Federal, State, and Local regulations. Contractor shall also hold the Owner and Owner's Representative harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulations, including their workers and any sub-contractors.

1.6 PERMITS AND LICENSES

A. Asbestos containing material, which is to be transport from site to disposal site, is to be done by a hauler maintaining a current "Industrial Waste Hauler Permit" specifically for asbestos-containing materials.

B. Contractor doing the removal, transporting, disposal or other regulated activity for the work, shall maintain all current licenses as required by applicable State or Local jurisdiction for the removal, transporting, disposal of asbestos containing material.

C. Post all notices as required by applicable Federal, State and Local regulations. Contractor is to maintain two (2) copies of all applicable notices and post one (1) at each job site and keep on file in Contractor's office.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 014221

SECTION 024100 – CUTTING AND PATCHING – ABESTOS CONTAINING MATERIALS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes procedural requirements for cutting and patching of asbestos containing materials within the existing roof systems, including related flashing and strippings.

B. Related Sections include the following:

1. Division 1 Section "Selective Demolition" for demolition of selected portions of the building.
2. Division 1 Section “Regulated Areas” for warning and securing area were asbestos removal takes place.

1.3 DEFINITIONS

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

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

PART 2 - PRODUCTS

A. Provide local exhaust ventilation system that complies with ANSI 29.2-1971.

PART 3 - EXECUTION

A. Prior to starting any cutting of asbestos materials, comply with Section 015500 Regulated Areas.

B. Perform removal of **Non-Friable** asbestos containing materials through methods and work practices that will not subject the material to sanding, grinding, cutting, or

abrading and the dispersal of asbestos fibers into the air. No Mechanical forces shall be used on asbestos containing material that would make the material friable. High speed saws shall not be used to cut asbestos containing material for removal.

1. The removal of asbestos-containing roofing material shall be done as not to constitute it as an “Asbestos Removal Project” as defined by the Indiana State Asbestos Rules per the Indiana Department of Environmental Management.

C. If any portion or edges of any asbestos containing material becomes exposed do to cutting, drilling, abrading, etc., seal said edges or areas that have become exposed, with two (2) coats of approved penetrating encapsulate, applied per manufacturer’s printed instruction.

END OF SECTION 024100

SECTION 024120 – REMOVAL OF ASBESTOS CONTAINING MATERIALS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

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

1. Removal process for removing non-friable asbestos containing material

B. Related Sections include the following:

1. Division 1 Section "Reference" for related references and definitions.
2. Division 1 Section "Codes, Regulations and Standards – Asbestos Abatement" for governmental regulations and industry standards.
3. Division 2 Section “Cutting and Patching – Asbestos Containing Materials” for the method of removal.
4. Division 2 “Disposal of Asbestos Containing Material” for the disposal procedures of disposing of asbestos material.

PART 2 - PRODUCTS

2.1 WETTING MATERIALS

A. For wetting prior to disturbance of Asbestos-contianing materials.

1. Amended Water: Provide water which a surfactant has been added. Use a mixture of surfactant and water which results in wetting of the asbestos- containing material and retardation of fiber release during disturbance of the material equal to or greater than that provided by the use of one ounce of a surfactant.
2. Removal Encapsulate: Provide a penetrating type encapsulate designed specifically for removal of asbestos-containing material. Use a material which results in wetting of the asbestos-containing material and retardation of fiber release during disturbance of the material equal to or greater than that provided by water amended with a surfactant consisting of one ounce of a mixture of 50% polyoxyethleneser and 50% polyoxyethlylene ether in five (5) gallons of water.

2.2 AUXILIARY ASBESTOS PRODUCTS

A. Polyethylene Sheet: A single polyethylene film in the largest sheet size possible to minimize seams, 4.0 or 6.0 mil thick, clear, frosted or black.

B. Duct Tape: minimum 2” widths with an adhesive formulated to aggressively stick.

C. Disposal Bags: 6 mil thick, leak-proof polyethylene bags, labeled as required by Section 01735 – Disposal of Asbestos Containing Waste Material.

D. Fiberboard Drums: heavy duty leak tight fiberboard drums, with tight sealing, locking metal lids.

E. Paper Board Boxes: heavy duty corrugated paper board boxes, coated with plastic or wax to prevent deterioration due to moisture. Provide boxes in sizes in which dispoal bags will easily fit.

PART 3 - EXECUTION

3.1 GENERAL

A. Perform removal of non-friable asbestos-containing material through engineering controls and work practices that will not subject the material to sanding, grinding, cutting or abrading and which minimizes the dispersal of asbestos fibers into the air. Any mechanical forces expect to act on the material shall not make the material friable. High speed saws shall not be used for asbestos-containing material removal operations.

3.2 WET REMOVAL

A. Thoroughly wet asbestos-containing materials that are to be removed prior to stripping and/or tooling to reduce the potential fiber dispersal into the air. Accomplish wetting by with a fine spray of amended water or removal encapsulate. Saturate material sufficiently to wet substrate without causing excessive dripping. If amended water is used, spray material repeatedly during the removal proess to maintain continuously wet condtions to reduce airborne fiber levels. If removal encapsulate is used, apply in removal encapsulate in accordance with manufacturer’s written instructions.

B. Remove wetted asbestos containing material in small sections, do not allow wetted material to dry out. Pack wetted material into required disposal bags. Seal disposal bags by twisting the neck of bag, bend neck over and wrap with duct tape – provide minimum of three (3) wraps.

C. Do not wet asbestos containing material around active electrical equipment and dry remove.

END OF SECTION 024120

SECTION 024125 – DISPOSAL OF ASBESTOS CONTAINING MATERIALS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

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

1. Disposal process for non-friable asbestos containing material and asbestos containing material that may be come friable.

B. Related Sections include the following:

1. Division 1 Section "Reference" for related references and definitions.
2. Division 1 Section "Codes, Regulations and Standards – Asbestos Abatement" for governmental regulations and industry standards.
3. Division 2 Section “Cutting and Patching – Asbestos Containing Materials” for the method of removal.
4. Division 2 “Removal of Asbestos Containing Material” for the disposal procedures of disposing of asbestos material.

1.3 SUBMITTALS

A. Prior to the start of Work, submit the following for review and approval:

1. Copy of State or local License for waste hauler transporting asbestos containing material
2. Name, address and telephone number of the landfill were asbestos containing material is to be disposed of.
3. If asbestos containing material is to be processed into non-asbestos waste, provide the name, address and telephone number of the processer. Along with the following documentation:

    a. Product data of process

b. Documentation from the United States Environmental Protection Agency, indicating that the processer and process used can produce an asbestos free product and is capable of satisfying the requirements for an acceptable "alternative" method of complying with Section 61.152 (a) of the NESHAP for asbestos.

4. Provide a chain of Custody forms for every load.
5. As part of the Project Close-out documents, provide copies of all manifest and landfill disposal site receipts.

PART 2 - PRODUCTS

2.1 DISPOSAL BAGS

A. Provide Disposal bags for friable asbestos containing material that are 6 mil thick, leak-tight polyethylene bags, with three separate attached labels that read as follows:

1. First Label:

CAUTION
CONTAINS ASBESTOS FIBERS
AVOID OPENING OR BREAKING BAG
BREATHING ASBESTOS IS HAZARDOUS TO YOUR HEALTH

2. Second Label in accordance with 29 CFR 1910, 1200 (f) of OSHA's Hazard Communication standard:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST CANCER AND LUNG DISEASE HAZARD
BREATHING AIRBORNE ASBESTOS, TREMOLITE, ANTHOPHYLITE OR ACTINOLITE FIBERS IS HAZARDOUS TO YOUR HEALTH

3. Third Label in accordance with U.S. Department of Transportation regulation on hazardous waste marking, 49, CFR parts 171 and 172; Hazardous Substance: Final Rule.

RQ HAZARDOUS
SUBSTANCE
SOLID, NOS
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(ASBESTOS)

PART 3 - EXECUTION

3.1 GENERAL

A. Non-friable asbestos-containing material if handled properly can be disposed of as normal construction waste.

3.2 REMOVAL

A. Lower all asbestos containing material, both non-friable and friable to the ground by crane, hoist of other methods which will reduce the potential for air-borne fiber release into the air. Throwing or dumping via chute is not permitted.

B. Interior of truck bed or dumpster used to transport shall be lined with critical and primary barriers

C. Asbestos containing material, both non-friable and friable material is to be carefully loaded into fully enclosed dumpsters, trucks, or other approved vehicles for transport.

D. Do not store asbestos containing material in or outside of the Work Area. Once asbestos containing material is removed, immediately load into seal truck or dumpster.

3.3 TRANSPORTING

A. Do not transport non-friable or bagged asbestos containing material in open trucks or dumpsters.

3.4 LANDFILL

A. Retain all receipts from landfill or processor for all materials disposed of.

END OF SECTION 024125