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## VICINITY MAP ALAMEDA

# **MAYA LIN ELEMENTARY SCHOOL**

# SEALANT AND WALL COATING REPAIRS

## 845 TAYLOR AVENUE ALAMEDA, CALIFORNIA 94501



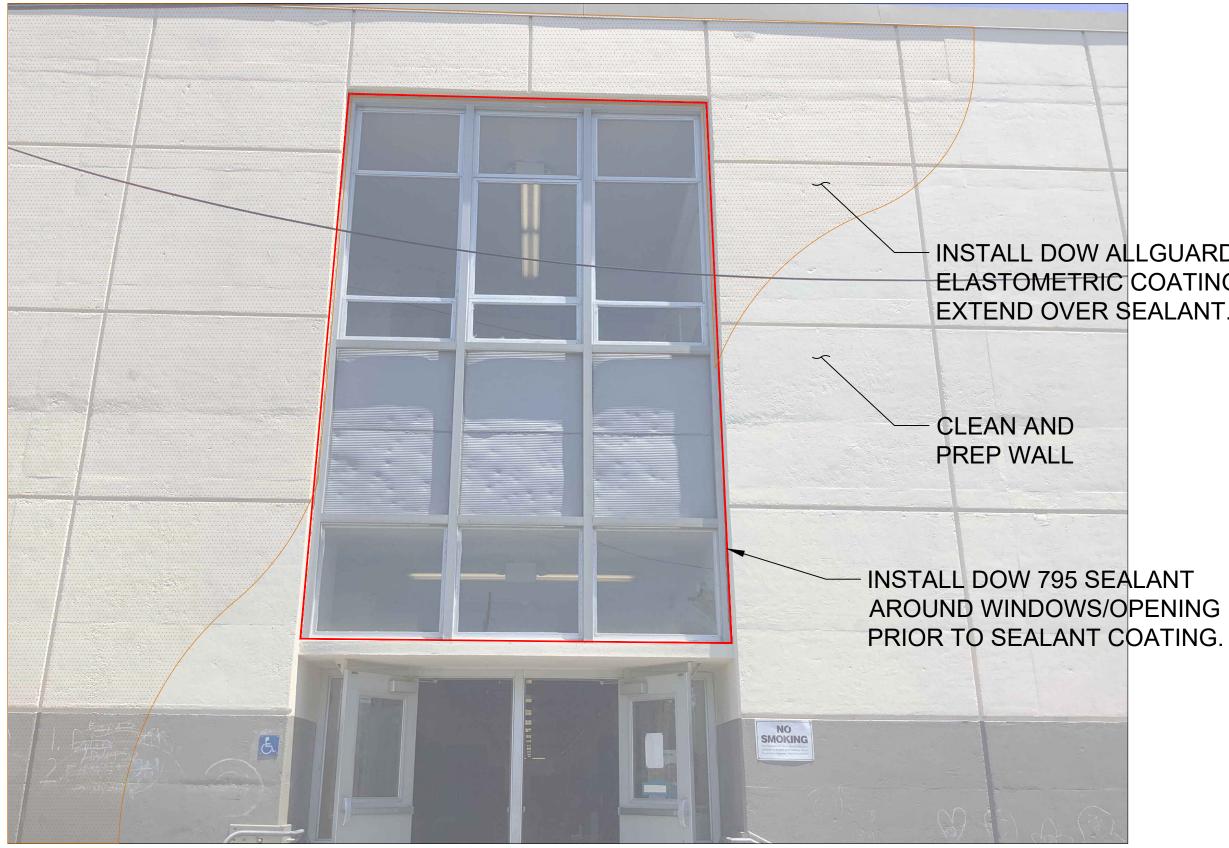
- 1- CLEAN AND PREP WALL SURFACES
- 2- REMOVE EXISTING SEALANT
- 3- INSTALL SILICONE ELASTOMERIC COATING. COLOR TO MATCH EXISTING
- 4- INSTALL SEALANT & BACKER ROD

### **SPECIFICATION**

JOINT SEALANT ELASTOMERIC COATING

		Intervention of the service of the s	
A000 A001 A002 A500 A501	INDEX OF DRAWINGS COVER SHEET SITE PLAN ELEVATIONS DETAILS & SPECIFICATIONS SPECIFICATIONS	COVER SHEET COVER SHEET <b>MAY ELEMENTARY SCHOOL</b> 825 TAYLOR AVENUE 825 TAYLOR AVENUE ALAMEDA, CA	
		REV       DATE       DESCRIPTION         1       -       -         2       -       -         3       -       -         3       -       -         4       -       -         5       -       -         6       -       -         8       -       -	
		Signature Date: Project No: FT226038 Scale: AS NOTED Date: 8/12/22 Drawn By: S. CHILDS Designed By: A. Weber A. Weber	





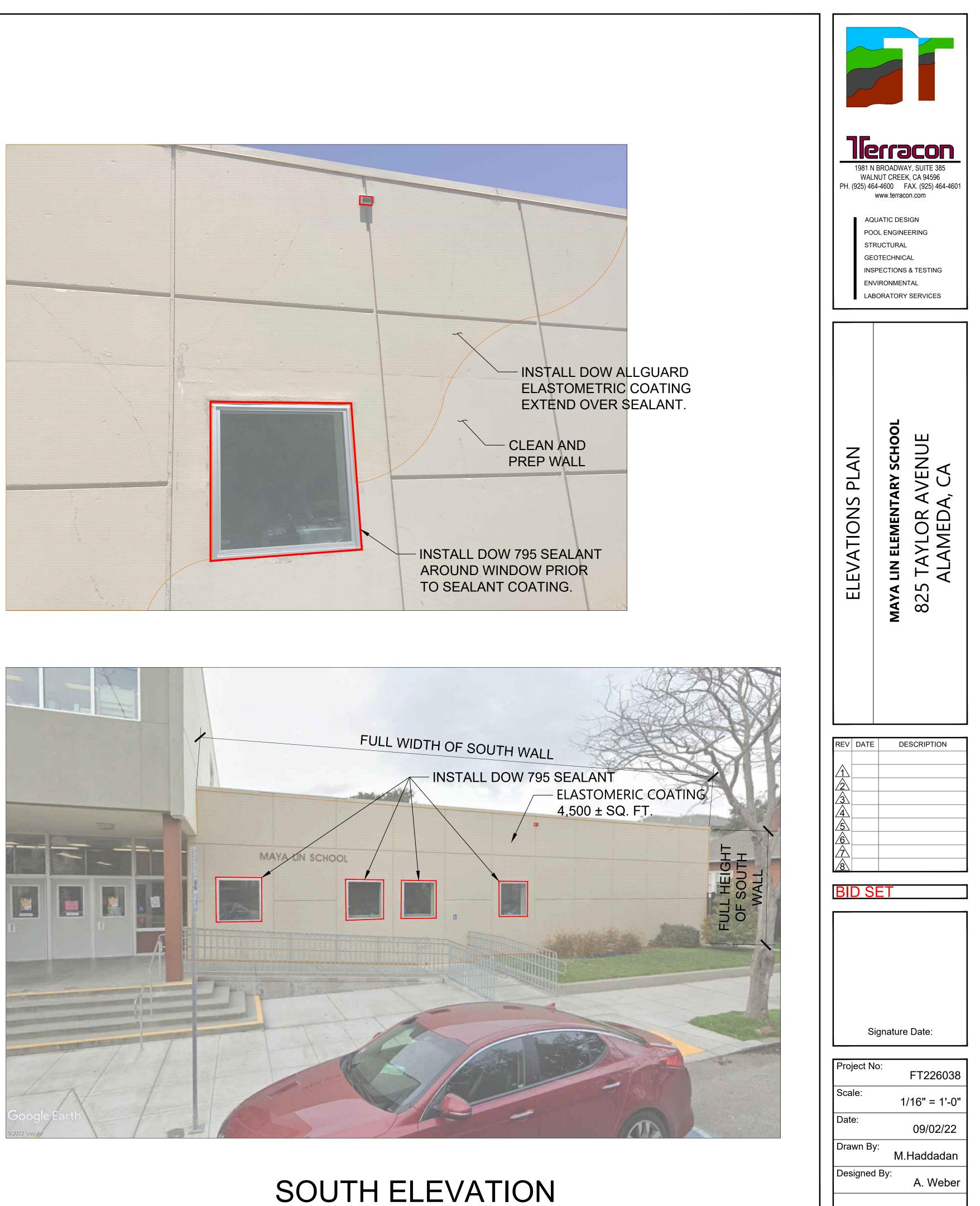


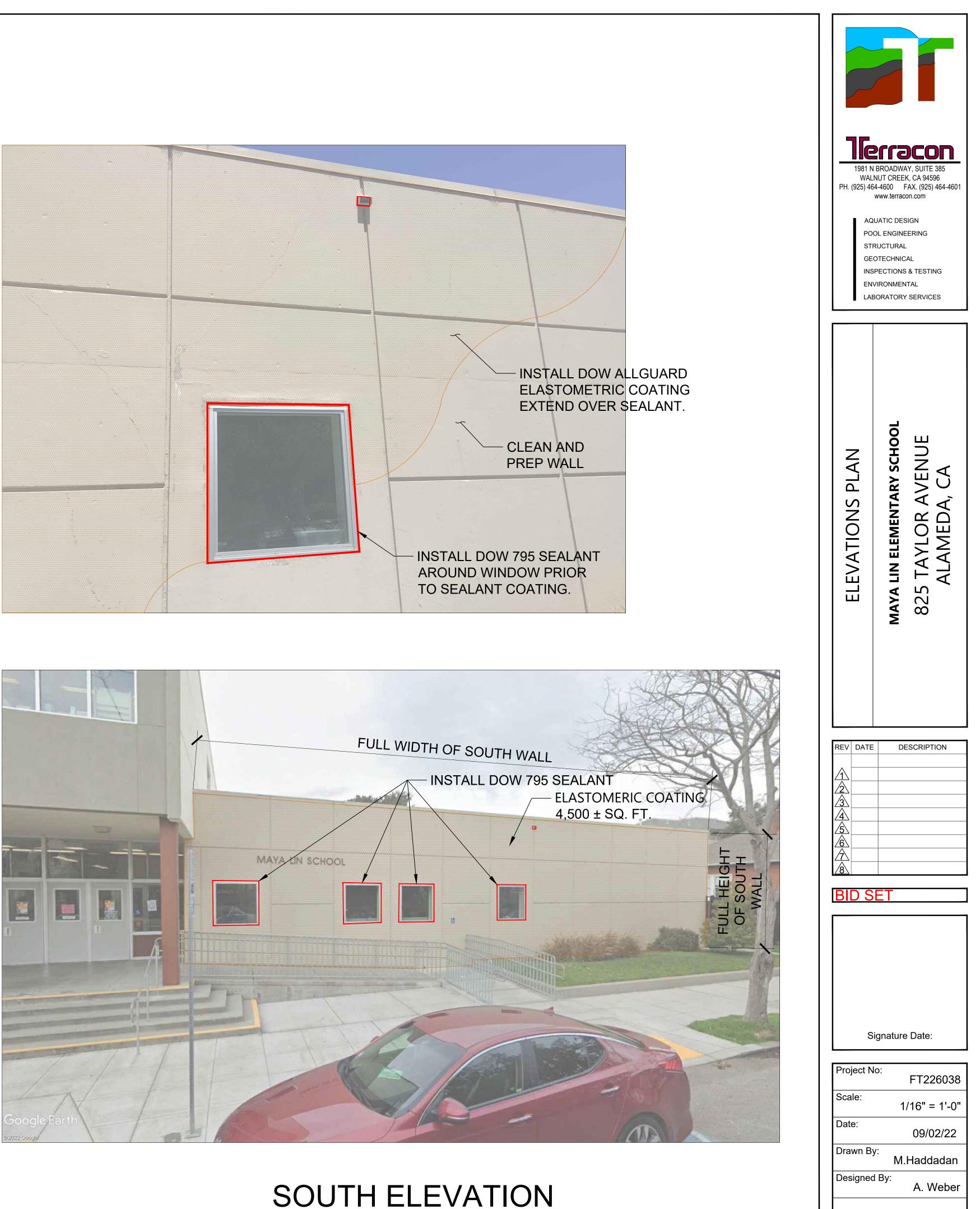
### WEST ELEVATION

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### INSTALL DOW ALLGUARD ELASTOMETRIC COATING EXTEND OVER SEALANT.

AROUND WINDOWS/OPENING





A002

Alor	neda Unified School District– Project Number FT226038	Alameda Unified School District-
May	a Lin Elementary Waterproofing Repairs Faylor Avenue, Alameda, California	Maya Lin Elementary Waterproofi 825 Taylor Avenue, Alameda, Cali 2. Printout of current
	SECTION 09 96 53 SILICONE ELASTOMERIC COATINGS	2. Thildu of current the proposed prod 3. VOC content. D. Closeout Submittals:
PAF 1.1 A		<ol> <li>Operation and Mai</li> <li>a. Recoating I convention</li> <li>2. Warranty: Submit</li> </ol>
1.2 A	<ul> <li>Conditions and Division 01 Specification Sections as provided by AUSD apply to this Section.</li> <li>SUMMARY</li> <li>Section includes surface preparation and the application of elastomeric coatings on exterior substrates.</li> </ul>	<ul> <li>1.6 MAINTENANCE MAT</li> <li>A. Furnish extra materials, packaged with protective 1. Quantity: 3 perce</li> </ul>
1.3 A 1.4 A E 1.5 A E	<ul> <li>REFERENCES</li> <li>California Code of Regulations, Title 24, Part 11 California Green Building Standards Code, "CAL-Green".</li> <li>California Code of Regulations, Title 24, Part 2, California Building Code (CBC), International Building Code, with California Amendments.</li> <li>SUBMITTALS</li> <li>Product Data: For each type of product. Include preparation requirements and application instructions.</li> <li>Samples for Verification: For each type of coating system and each color and gloss of topcoat.</li> <li>Submit Samples on rigid backing, 8 -inches (200 mm) square.</li> <li>Step coats on Samples to show each coat required for system.</li> <li>Label each coat of each Sample.</li> <li>Label each Sample for location and application area.</li> <li>Product List: For each product indicated, include the following:</li> <li>Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.</li> </ul>	<ul> <li>1.7 QUALITY ASSURANCE</li> <li>A. Mockups: Apply mockuperify preliminary select to set quality standards for the standards of the sta</li></ul>
	ICONE ELASTOMERIC COATINGS 09 96 53 - 1 % CD Set 8/12/22	SILICONE ELASTOMERIC CO. 100% CD Set 8/12/22
100 Alar May		
100 Alar May 825	% CD Set 8/12/22 neda Unified School District– Project Number FT226038 a Lin Elementary Waterproofing Repairs Faylor Avenue, Alameda, California SECTION 09 96 53 SILICONE ELASTOMERIC COATINGS	100% CD Set 8/12/22 Alameda Unified School I Maya Lin Elementary Wa
100 Alar May 825	<ul> <li>% CD Set 8/12/22</li> <li>neda Unified School District–Project Number FT226038 a Lin Elementary Waterproofing Repairs Taylor Avenue, Alameda, California SECTION 09 96 53 SILICONE ELASTOMERIC COATINGS </li> <li>CT I - GENERAL RELATED DOCUMENTS . Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections as provided by AUSD apply to this Section. SUMMARY </li> <li>Section includes surface preparation and the application of elastomeric coatings on exterior substrates. RELATED SECTIONS . Pertinent Sections specifying Volatile Organic Compound (VOC) Content Restrictions. REFERENCES . California Code of Regulations, Title 24, Part 11 California Green Building Standards Code,CALifornia Code of Regulations, Title 24, Part 1, California Green Building Standards Code, CALifornia Code of Regulations, Title 24, Part 1, California Green Building Standards Code, CALifornia Code of Regulations, Title 24, Part 2, California Building Code (CBC), International Building Code, with California Amendments. SUBMITTALS . Product Data: For each type of product. Include preparation requirements and application instructionsSupples for Verification: For each type of coating system and each color and gloss of topcoat.  Supples for Verification: For each tope of coating system and each color and gloss of topcoat.  Submit Samples to show each coat required for system Label each coat of each Sample Label each Sample for location and application area.</li></ul>	100% CD Set 8/12/22 Alameda Unified School I Maya Lin Elementary Wa

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### Project Number FT226038 ing Repairs

fornia

"MPI Approved Products List" for each product category specified, with uct highlighted.

ntenance Data: For each type of elastomeric coating system. equirements: To verify compatible recoating products (typically not l paint). specified 20-year warranty.

#### TERIAL SUBMITTALS

, from the same product run, that match products installed and that are e covering for storage and identified with labels describing contents. ent of each material and color applied.

ups of each paint system indicated and each color and finish selected to tions made under Sample submittals, to demonstrate aesthetic effects, and for materials and execution.

lect one surface to represent surfaces and conditions for application of

Horizontal Surfaces: Provide samples of at least 4 sq. ft (0.4 sq. m). Architect will designate items or areas required.

dhesion Mockups:

sups of coating system to substrate(s) both with and without primer *i* the system manufacturer. vide cheese cloth strips in mockups leaving a 3" tab that is not embedded

up samples have cured 10 days, or time as required by the manufacturer,

cloth strips to demonstrate coating adhesion. ber Adhesion: Difficult to generate enough hand-applied force to peel

se cloth off. quate Adhesion: Easy to hand-apply force to peel cheese cloth off (see below).

ATINGS

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District– Project Number FT226038 erproofing Repairs da, California



nockup samples provide Inadequate Adhesion, apply additional mockups using ernate primers as recommended by the manufacturer at no added cost to AUSD l Proper Adhesion is achieved.

chitect's determination of sufficient adhesion is final.

roval of color selections and coating system components will be based on

preliminary color selections are not approved, apply additional mockups of ditional colors selected by Architect at no added cost to AUSD. roval of need for primer coat will be based on mockups.

of mockups does not constitute approval of deviations from the Contract s contained in mockups unless Architect specifically approves such deviations

compliance with requirements, approved mockups may become part of the d Work if undisturbed at time of Substantial Completion.

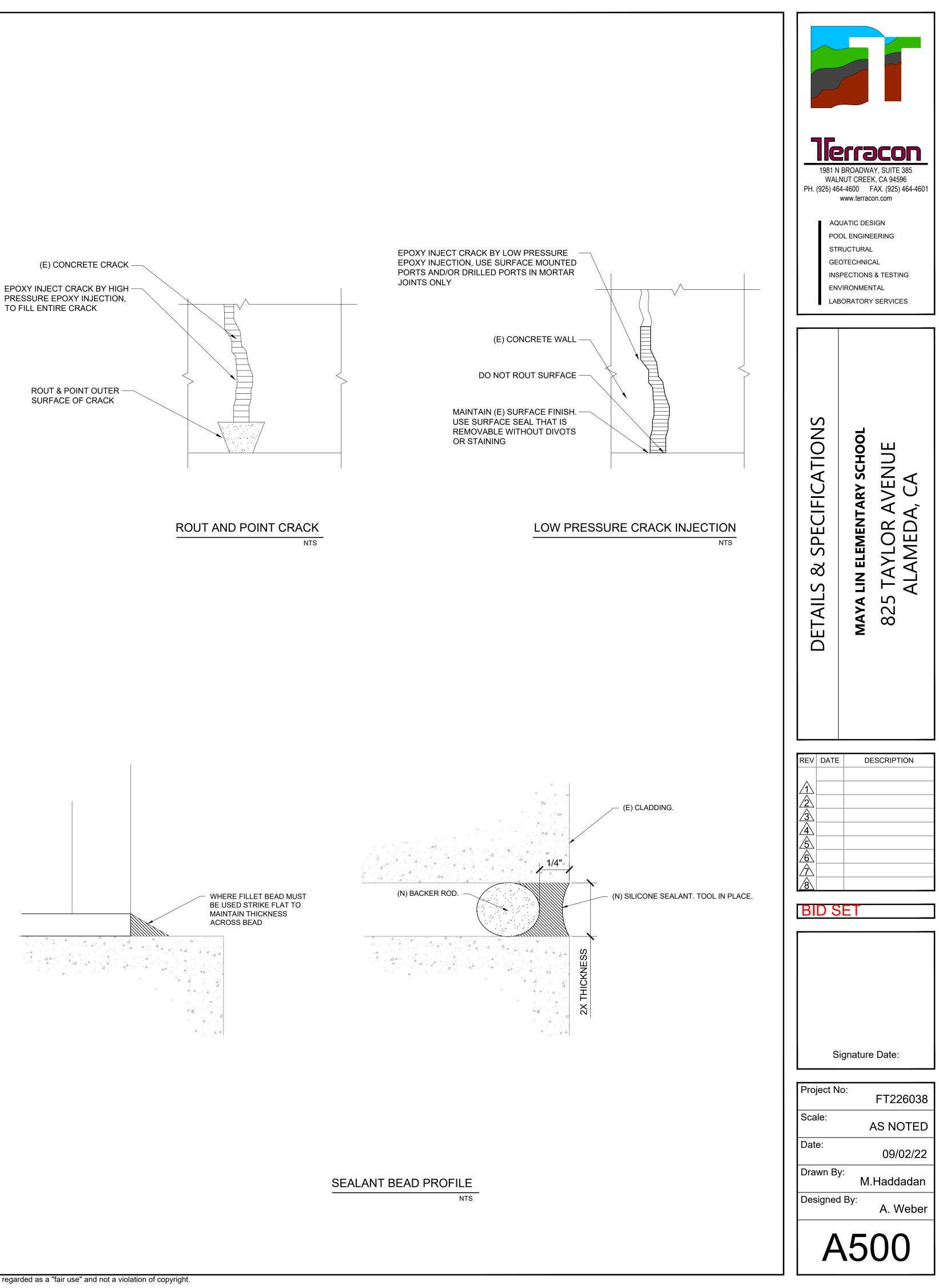
Preparation and Workmanship; Comply with requirements in "MPI Architectural cation Manual" for products and paint systems indicated for new construction and ces.

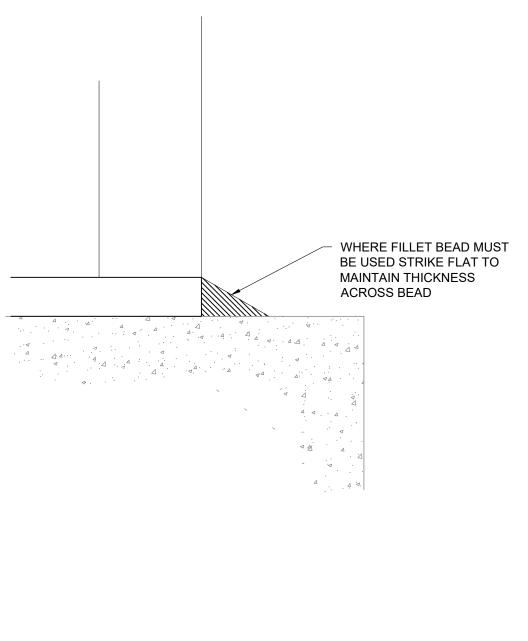
ions: Obtain block fillers, primers, and undercoat materials for each coating same manufacturer as the finish coats.

Work: Review other sections in which primers are provided to ensure the total systems for various substrates. On request, furnish information on f finish materials to ensure use of compatible primers. rchitect of problems anticipated using the materials specified.

**RIC COATINGS** 

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Alameda Unified School District– Project Number FT226038 Maya Lin Elementary Waterproofing Repairs 825 Taylor Avenue, Alameda, California

2. Remove rags and waste from storage areas daily.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C), or minimum temperature recommended by manufacturer.
  - 1. Maintain containers in clean condition, free of foreign materials and residue.
- -

1.9 FIELD CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

B. Allow wet surfaces to dry thoroughly and attain temperature and conditions specified before starting or continuing coating operation.

#### 1.10 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace elastomeric coatings that fail within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Water penetration through the coating.
  - b. Deterioration of coating beyond normal weathering.2. Warranty Period: Ten (10) years from date of Substantial Completion.

#### PART 2 - PRODUCTS

- 2.1 MANUFACTURERS
- A. Basis of Design: Dow AllGuard is the standard of quality against which the Architect will judge equivalency of materials.
- B. Acceptable Products:
  - AllGuard Silicone Elastomeric Coating, by Dow Corning; web: <u>www.dowcorning.com</u>.
     Substitutions: Approved Equal Per Division 01.
- C. Typical Physical Properties Supplied:
- 1. Specific Gravity: 9.64lb/gal, per ASTM D 1475.
- 2. Solids Content: 58.6% by weight, per ASTM D 2369.
- 3. Volatile Organic Content (VOC): 55 g/L, per EPA Method 24.
- D. Typical Physical Properties Cured:

SILICONE ELASTOMERIC COATINGS 100% CD Set 8/12/22

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Alameda Unified School District– Project Number FT226038 Maya Lin Elementary Waterproofing Repairs 825 Taylor Avenue, Alameda, California

- 1. Tensile Strength: > 145 psi, per ASTM D 412.
- 2. Elongation: 600%, per ASTM D 412.
- 3. Vapor Permeance (at 10 mils dry film thickness): 43.2 perms, per ASTM D 1653.

#### 2.2 MATERIALS

A. Material Compatibility:

- Materials for use within each system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
- 2. For each coat in a system, products shall be recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- B. Colors: Custom color(s) as selected by the AUSD. Custom colors of silicone elastomeric coatings require a longer lead time than other paints and coatings. Verify product production time with manufacturer to ensure product availability as required by the construction schedule.
- C. Material containers not displaying manufacturer's product identification will **<u>NOT</u>** be acceptable.
- D. Crack Fillers: Elastomeric coating manufacturer's recommended, factory-formulated crack fillers or sealants, including crack filler primers, compatible with substrate and other materials indicated.
- E. Primer: Elastomeric coating manufacturer's recommended, factory-formulated, alkali-resistant primer compatible with substrate and other materials indicated.

#### **PART 3 - EXECUTION**

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- C. Begin coating no sooner than 28 days after substrate is constructed and is visually dry on both sides.
- D. Verify that substrate is within the range of alkalinity recommended by manufacturer.
- E. Proceed with coating application only after unsatisfactory conditions have been corrected.1. Application of coating indicates acceptance of surfaces and conditions.
- F. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter. Comply with manufacturer's moisture content requirements.

SILICONE ELASTOMERIC COATINGS 100% CD Set 8/12/22

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Maya Li	n Eleme	l School District– ntary Waterproofi ue, Alameda, Cali
3.2	PREPA	ARATION
Α.		y with manufact ble to substrates a
В.	not to b surface 1.	re hardware, cove be coated. If remo applied protection After completing protecting protection of the sthat were rest
C.	incomp surface 1. 2.	substrates of subst patible paints and as to be coated exc Remove incompate to produce coating Perform cleaning process will not fa
D.	Crack	Repair: Fill cracks
3.3	APPLI	CATION
А.	1. 2.	coatings accordin Use applicators ar Coat surfaces beh Apply each coat s
В.	Primer	s: Apply at a rate
C.	Block	Fillers: Apply at a
D.		neric Finish Coa nended by manuf
E.	same n	ich undercoat a li naterial are to be a nce in shade of un
F.		ercoats or other coniform finish, col
G.		coatings to produc racking, runs, sag
	NE ELA D Set 8,	ASTOMERIC CO /12/22
]	Maya Li	a Unified School I n Elementary Wa or Avenue, Alamo
	H.	Apply coatings t surface soiling o
	I.	Spray Applicati having jurisdicti to build up film
	3.4	FIELD QUALIT
	A.	Testing of Coatin 1. Engage the of materia presence of 2. Testing of Coatin
		<ol> <li>Testing ag</li> <li>Direct Co</li> <li>not compl</li> </ol>

	to build up film t	
3.4	FIELD QUALI	
A.	<ol> <li>Testing of Coatin</li> <li>Engage the of materia presence o</li> <li>Testing ag</li> <li>Direct Cornot comply testing, an materials f two coatin</li> </ol>	
B.	<ul> <li>Field Testing and verify acceptabili</li> <li>1. Contractor</li> <li>2. If test response manufacture Contractor thickness to the contractor the con</li></ul>	
3.5	CLEANING AN	
А.	At end of each w Project site.	
В.	After completing washing, scraping	
C.	Protect work of c other trades by clo in an undamaged	
D.	At completion of painted surfaces.	
3.6	ELASTOMERIC	
А.	Existing Exterior	
	NE ELASTOMEF D Set 8/12/22	

#### – Project Number FT226038 fing Repairs lifornia

cturer's written instructions and recommendations in "MPI Manual" and systems indicated.

ers, plates, and similar items already in place that are removable and are oval is impractical or impossible because of size or weight of item, provide on before surface preparation and coating. painting operations, use workers skilled in the trades involved to reinstall

emoved. Remove surface-applied protection.

stances that could impair bond of coatings, including dirt, oil, grease, and d encapsulants. Do not coat surfaces if moisture content or alkalinity of acceeds that permitted in manufacturer's written instructions. atible primers and reprime substrate with compatible primers as required

ag systems indicated. g and coating application so dust and other contaminants from cleaning fall on wet, newly coated surfaces.

s according to manufacturer's written instructions before coating surfaces.

ng to manufacturer's written instructions.

and techniques suited for material and substrate indicated. nind movable items the same as similar exposed surfaces.

separately according to manufacturer's written instructions.

to ensure complete coverage.

a rate to ensure complete coverage with pores filled.

at(s): Minimum two coats with a total dry film thickness (DFT) as facturer.

ighter shade to facilitate identification of each coat if multiple coats of applied. Tint undercoats similar to color of topcoat but provide sufficient ndercoats to distinguish each separate coat.

conditions show through topcoat, apply additional coats until cured film lor, and appearance.

ice surface films without cloudiness, spotting, holidays, laps, brush marks, gs, ropiness, or other surface imperfections. Cut in sharp lines and color

DATINGS

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District– Project Number FT226038 aterproofing Repairs neda, California

to prepared surfaces as soon as practicable after preparation and before subsequent or deterioration.

ion: Use spray equipment for application only when permitted by authorities ion. Wherever spray application is used, do not double back with spray equipment thickness of two coats in one pass.

TY CONTROL

ing Materials: AUSD reserves the right to invoke the following testing procedures: he services of a qualified testing agency to sample materials being used. Samples ial delivered to Project site will be taken, identified, sealed, and certified in of Contractor.

agency will perform tests for compliance of materials with product requirements. ontractor to stop coating application if test results show materials being used do bly with requirements. Remove noncomplying materials from Project site, pay for and recoat surfaces that were coated with rejected materials. Remove rejected a from previously coated surfaces if, on recoating with complying materials, the ings are incompatible.

nd Inspection: Provide the services of a qualified manufacturer's representative to ility of substrate and installed thickness of elastomeric coatings.

r shall touch up and restore painted surfaces damaged by testing.

sults show that dry film thickness of applied coating does not comply with urer's written recommendations or the requirements of this specification, or shall pay for testing and apply additional coats as needed to provide dry film that complies with specifications.

#### ND PROTECTION

workday, remove rubbish, empty cans, rags, and other discarded materials from

ng coating application, clean spattered surfaces. Remove spattered paints by ng, or other methods. Do not scratch or damage adjacent finished surfaces.

other trades against damage from paint application. Correct damage to work of cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave d condition.

f construction activities of other trades, touch up and restore damaged or defaced

C COATING SCHEDULE

r Concrete Substrates:

ERIC COATINGS

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Alameda Unified School District– Project Number FT226038 Maya Lin Elementary Waterproofing Repairs 825 Taylor Avenue, Alameda, California

1. Elastomeric Coating System:

- a. Prime Coat: If required based on pull tests in Section 1.7, 2 above, as recommended in writing by topcoat manufacturer.
- b. Intermediate Coat: Dow AllGuard.
- c. Topcoat: Dow AllGuard, in custom color. Intermediate and topcoat total thickness as recommended by manufacturer.

- END OF SECTION -099653

SILICONE ELASTOMERIC COATINGS 100% CD Set 8/12/22

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		<image/> <section-header></section-header>	
		SPECIFICATIONS	MAYA LIN ELEMENTARY SCHOOL 825 TAYLOR AVENUE ALAMEDA, CA
		Image: Sev Date       Image	
	5 [ [	Project No Scale: Date: Drawn By Designed	FT226038 AS NOTED 09/02/22 M.Haddadan