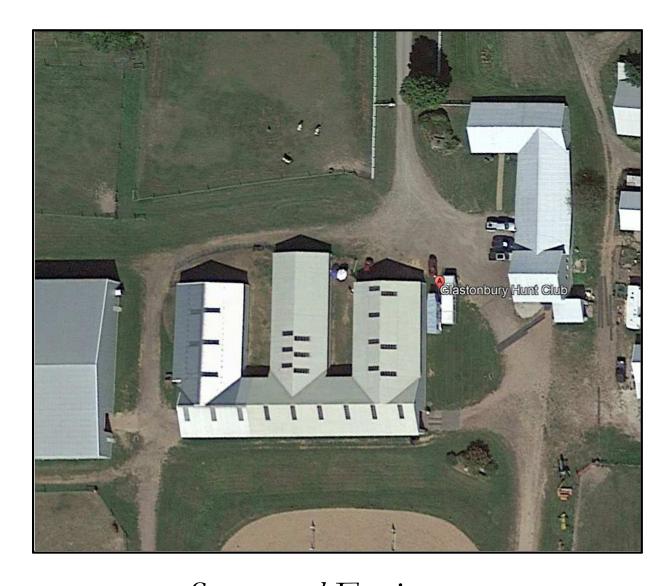
TOWN OF GLASTONBURY FOUNDATION REPAIRS TO TOWN BARN

177 Bailey Street, Glastonbury, CT

Town Project No. GL-2022-18

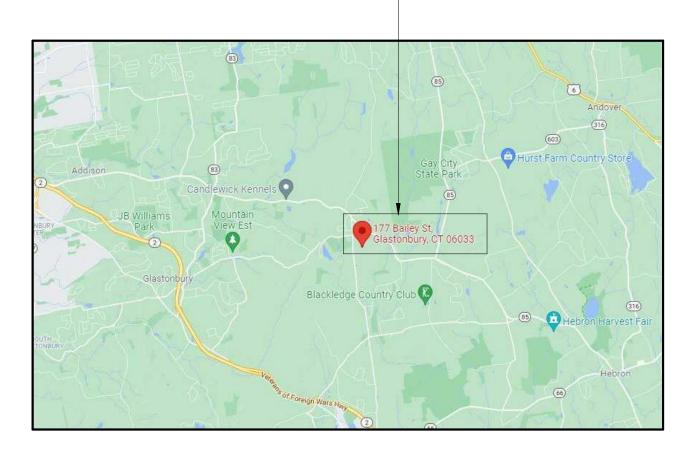


Structural Engineer

MACCHI ENGINEERS, LLC

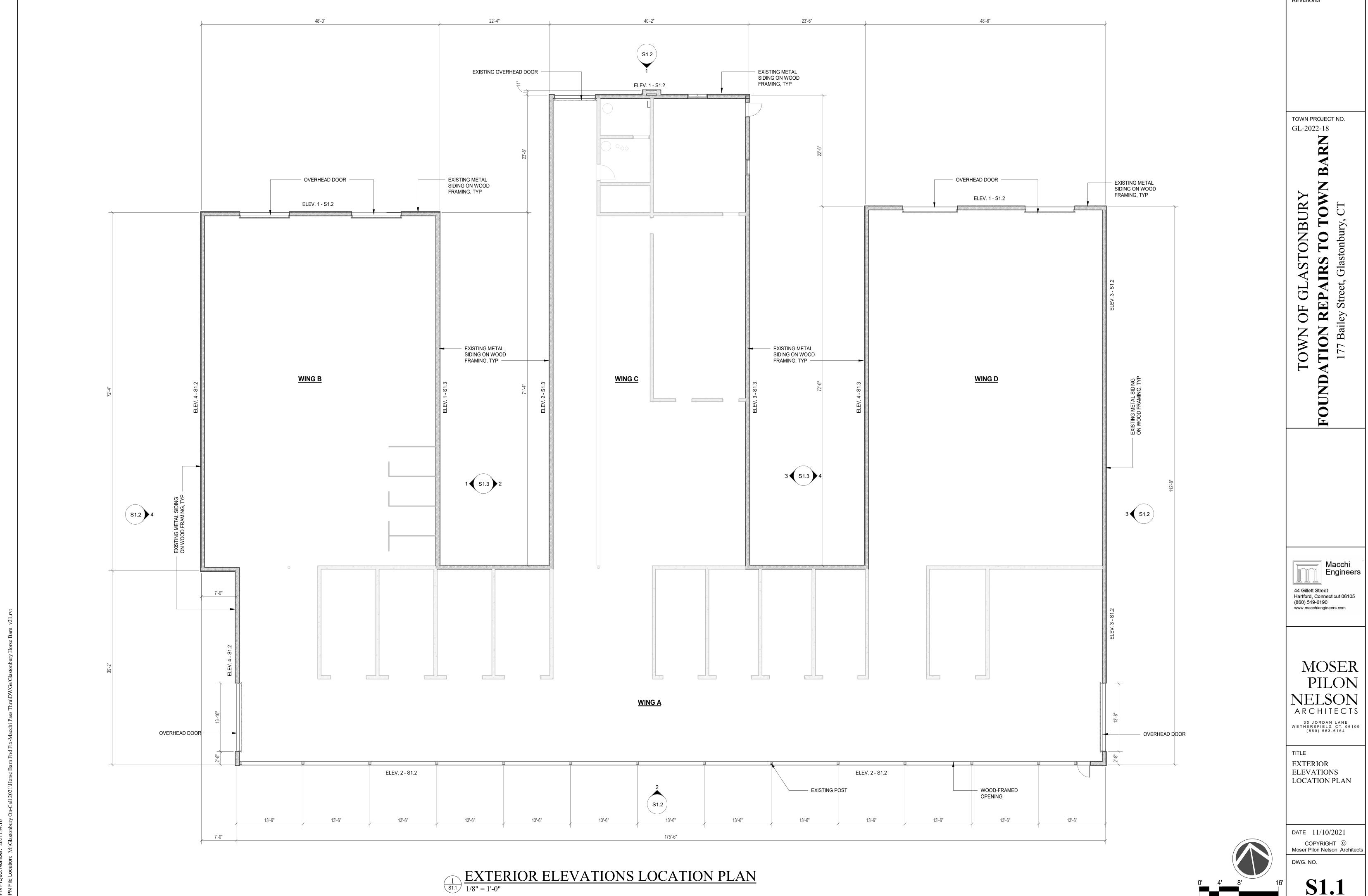
44 Gillett Street Hartford, Connecticut 06105 860-549-6190

PROJECT LOCATION



DRAWING LIST:

- S1.1 EXTERIOR ELEVATIONS LOCATION PLAN
- S1.2 EXTERIOR ELEVATIONS
- S1.3 EXTERIOR ELEVATIONS
- S2.1 INTERIOR ELEVATIONS LOCATION PLAN
- S2.2 INTERIOR ELEVATIONSS2.3 INTERIOR ELEVATIONS
- S3.1 TYPICAL REPAIR DETAILS
- S3.2 TYPICAL NOTES



MOSER PILON NELSON ARCHITECTS

S1.1

TOWN PROJECT NO. GL-2022-18

REPAIRS TO TOWN ASTONBURY

ATION REPAII 177 Bailey Street, (FOUND

Macchi Engineers

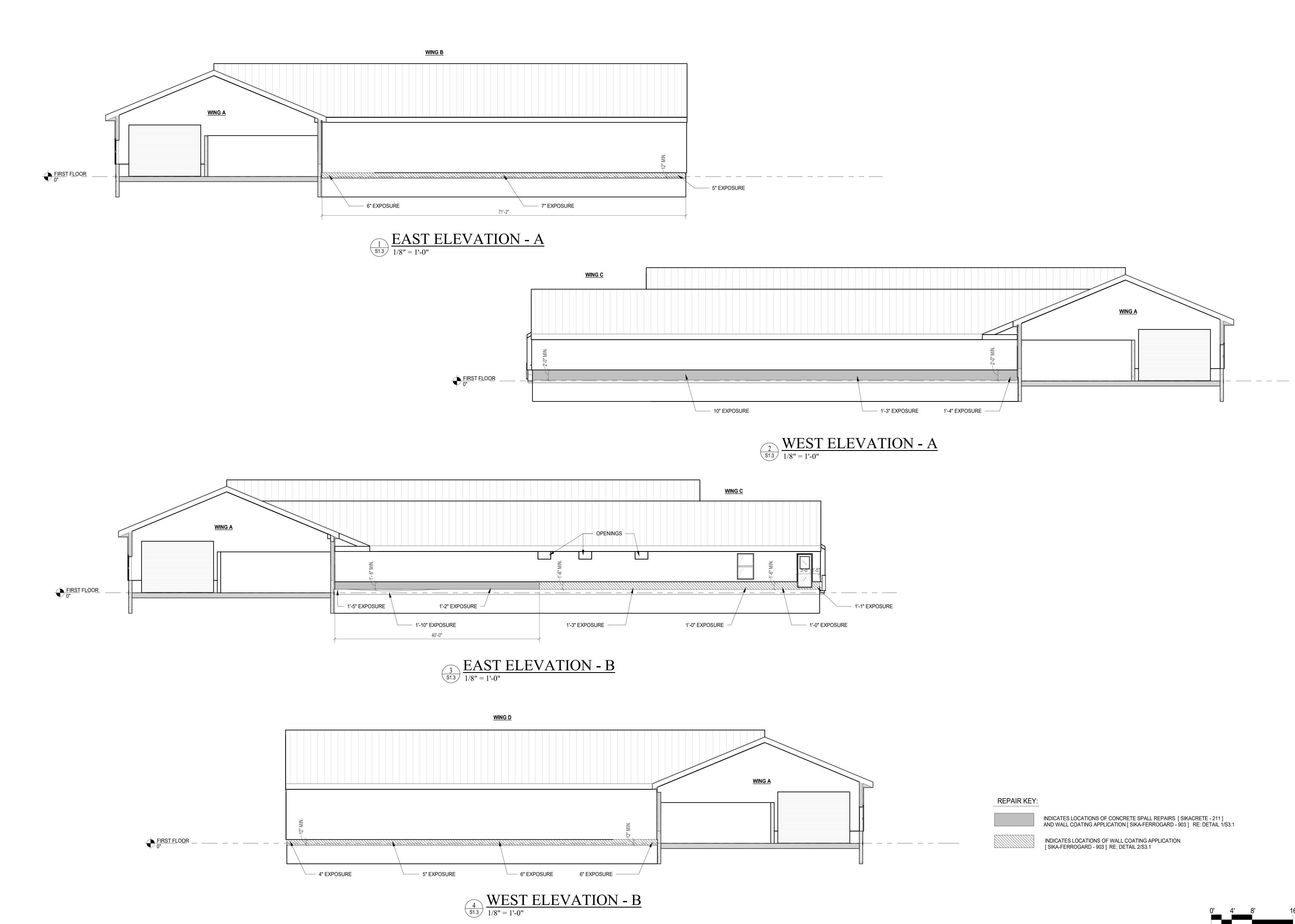
44 Gillett Street Hartford, Connecticut 06105 (860) 549-6190 www.macchiengineers.com

MOSER PILON **NELSON** ARCHITECTS 30 JORDAN LANE WETHERSFIELD, CT. 06109 (860) 563-6164

TITLE **EXTERIOR** ELEVATIONS

DATE 11/10/2021

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ASTONBURY

ATION REPAIRS TO TOWN 177 Bailey Street, Glastonbury, CT FOUND

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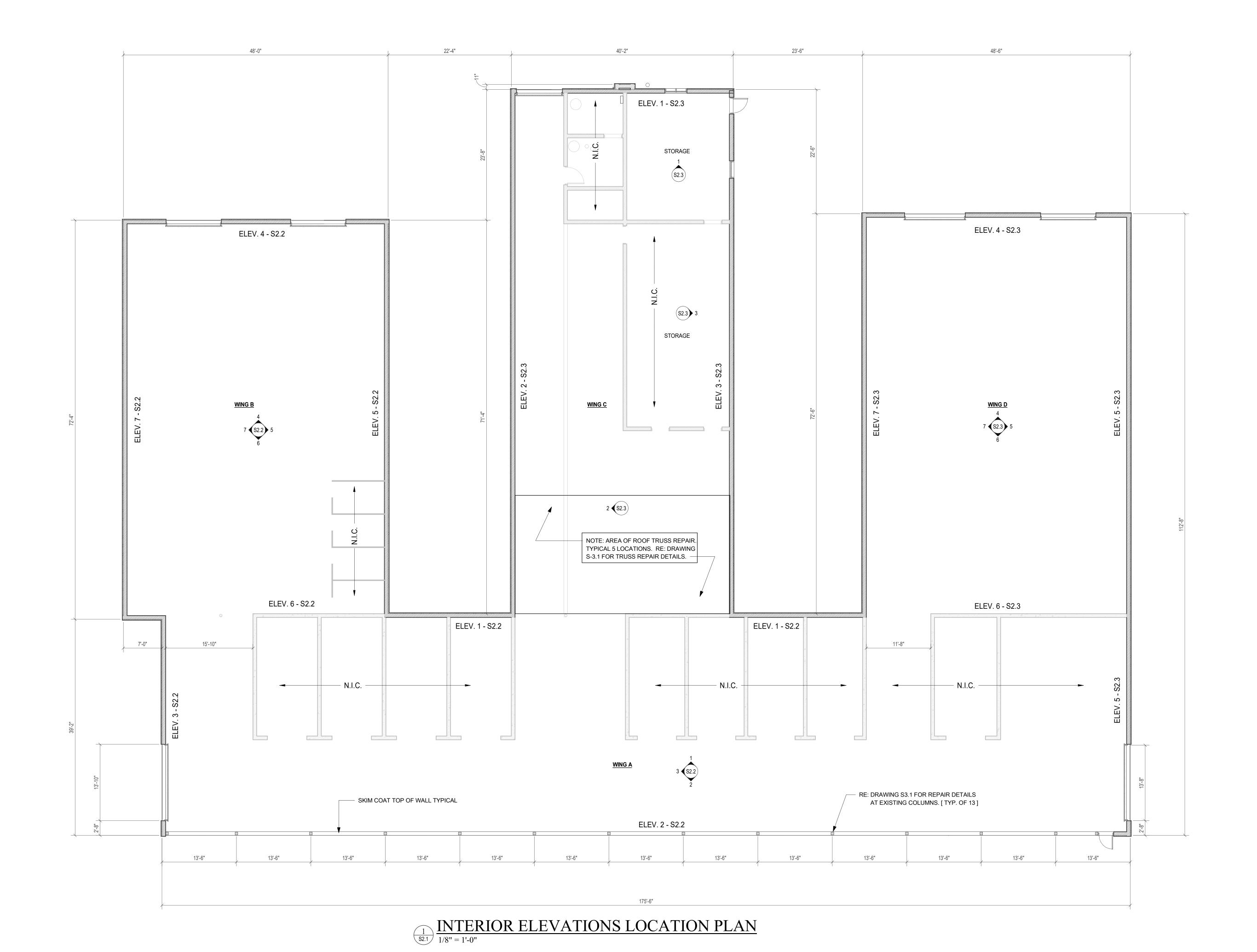
TITLE
INTERIOR
ELEVATIONS
LOCATION PLAN

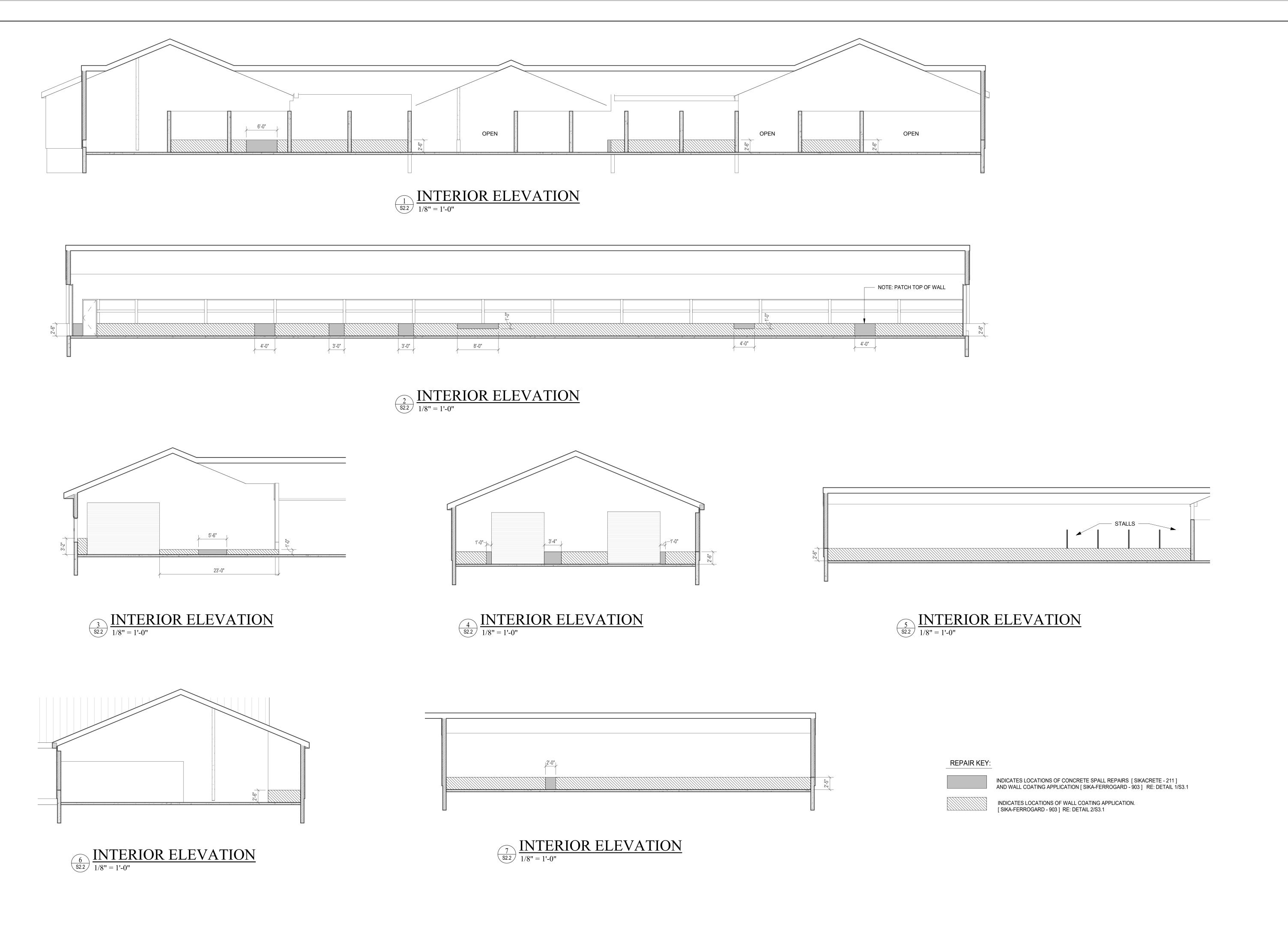
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S7 1





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ATION REPAIRS TO TOWN 177 Bailey Street, Glastonbury, CT TOWN OF GLASTONBURY

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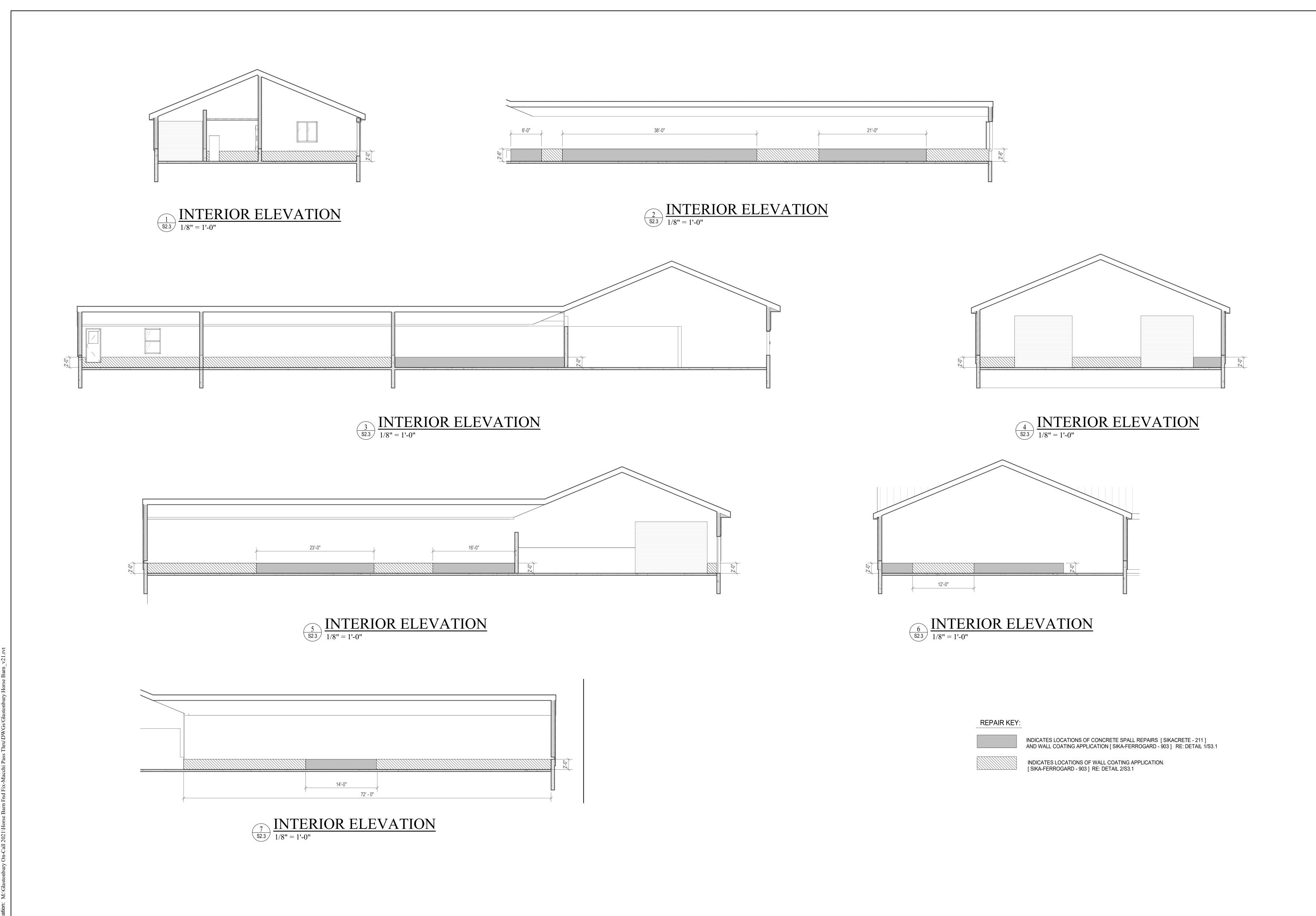
TITLE INTERIOR ELEVATIONS

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S2.2



TOWN PROJECT NO. GL-2022-18

TOWN OF GLASTONBURY
FOUNDATION REPAIRS TO TOWN BARN
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S2.3

TOWN PROJECT NO.

TO TOWN

REPAIRS

GL-2022-18

CONTRACTOR TO SUBMIT PROPOSED WORK SEQUENCE SCHEDULE FOR REVIEW AND APPROVAL. BARN IS TO REMAIN OCCUPIED DURING WORK.

COORDINATE SEQUENCE OF CONSTRUCTION WITH TOWN.

GENERAL NOTES:

2. INSTALLATION OF REPAIR MATERIALS SHALL BE IN STRICT CONFORMANCE WITH THE MANUFACTURERS REQUIREMENTS. SEE \$3.2 FOR ADDITIONAL INFORMATION.

3. OWNER WILL PROVIDE WATER FOR CONTRACTORS USE. ELECTRICITY SHALL BE PROVIDED BY CONTRACTOR.

4. ALL DIMENSIONS AND ELEVATIONS ARE TO BE FIELD VERIFIED.

SEE S3.2 FOR INFORMATION AND PREPARATION OF REPAIR MATERIALS.

EXISTING METAL SIDING

APPLY SIKA FERROGARD 903 COATING OVER EXISTING CONC. WALL SURFACES RE: ELEVATIONS FOR LOCATIONS

EXISTING CAST IN PLACE CONCRETE WALL

EXISTING GRADE AS REQUIRED TO COMPLETE REPAIRS. REPLACE TO MATCH EXISTING

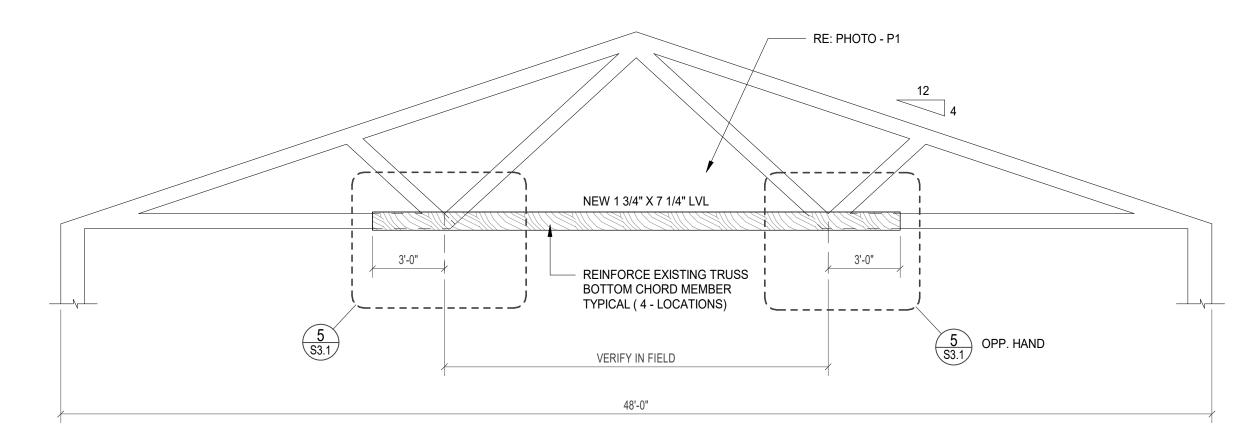


3" MIN.—

TOP OF WALL VARIES

EXISTING CAST IN PLACE CONCRETE WALL





EXISTING METAL SIDING

MINIMUM 1" CLEAR.

OVER SPALL REPAIR

- EXISTING GRADE

REMOVE EXISTING GRADE AS REQUIRED TO COMPLETE REPAIRS. REPLACE TO MATCH EXISTING

REMOVE CONCRETE SPALL AND LOOSE

CONCRETE DOWN TO SOUND CONCRETE

CLEAN EXPOSED STEEL TO BARE STEEL

WITH MECHANICAL TOOLS OR BLASTING.

FILL REPAIR AREA WITH SIKACRETE 211

APPLY SIKA FERROGARD 903 COATING

REMOVE REBAR AS REQUIRED TO PROVIDE

 $\frac{4}{(S3.1)} \frac{TRUSS REPAIR ELEVATION}{1/4" = 1'-0"}$

PHOTO - P1

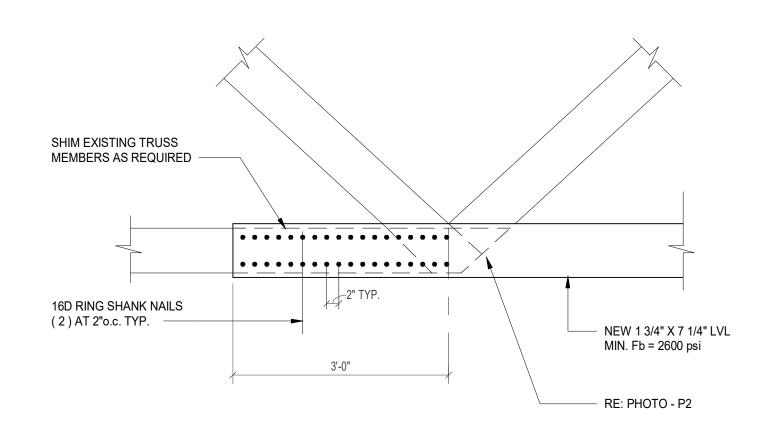






PHOTO - P3



PHOTO - P2



RE: PHOTO - P3

REMOVE EXISTING TIMBER SHOE AND REPLACE WITH 2 - 1 3/4" X 5 1/4" (LVL's)

APPLY SIKA-FERROGAURD 903

TO TOP OF WALL CONT.

EXISTING 5 1/2" X 5 1/2"
TIMBER COLUMN

5/8" THRU-BOLT (TYP OF 2)

BENT PL. 3/8" X 4" X 1". 3"
EACH SIDE OF EXISTING POST

5/8" DIA. THREADED ROD EPOXIED
8" MIN. INTO EXISTING WALL WITH
HILTI HY - 200 ADHESIVE.

EXISTING CONCRETE
FOUNDATION WALL

REMOVE EXISTING TIMBER SHOE AND
REPLACE WITH 2 - 1 3/4" X 5 1/4" (LVL's)

EXISTING 5 1/2" X 5 1/2" TIMBER COLUMN

BENT PL. 3/8" X 4" X 1'- 3"
EACH SIDE OF EXISTING POST

5/8" DIA. THREADED ROD EPOXIED 8" MIN. INTO EXISTING WALL WITH

HILTI HY - 200 ADHESIVE.

5/8" THRU-BOLT (TYP OF 2)

Macchi Engineers

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ARCHITECTS

30 JORDAN LANE
WETHERSFIELD, CT. 06109
(860) 563-6164

TITLE
TYPICAL REPAIR
DETAILS

DATE 11/10/2021

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S3.1

MPN Project Number: 2021134.10

MPN File Location: M:\Glastonbury On-Call 2021\Horse

nd Fix-Macchi Pass Thru\DWGs/Glastonb

n-Call 2021\Horse Barn Fnd Fix-Macchi Pass Thru\DWG

DWG. NO.

Sika® FerroGard®-903 Plus

CORROSION INHIBITING IMPREGNATION (IMPROVED FORMULATION)

DESCRIPTION

- Sika® FerroGard®-903 Plus is a surface applied mixed corrosion inhibitor, designed for use as an impregnation of steel reinforced concrete.
- Sika® FerroGard®-903 Plus is based on organic compounds. Sika® FerroGard®-903 Plus penetrates the concrete and forms a protective monomolecular layer on the surface of the reinforcing steel.

Sika® FerroGard®-903 Plus both delays the start of cor-

- rosion and reduces the corrosion rate. Corrosion protection with Sika® FerroGard®-903 Plus increases the service and maintenance life cycles by up to 15 years when used as a part of a complete Sika Concrete Repair and Protection System.
- Suitable for use in hot and tropical climatic conditions.

 For the corrosion protection of steel reinforced concrete structures above and below the ground As a corrosion control treatment for undamaged reinforced concrete where reinforcing steel is corroding, or is at risk from corrosion due to the effects of carbonated or chloride contaminated concrete Sika® FerroGard®-903 Plus is especially suitable for extending the service life of aesthetically valuable fair-faced concrete surfaces such as historic struc-

CHARACTERISTICS / ADVANTAGES

 Suitable for method 11.3 (applying inhibitor to the concrete) defined by EN 1504-9 for Principle 11 (anodic control) Does not change the appearance of the concrete

Does not alter the water vapour diffusion properties

of concrete

Product Data Sheet

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Sika® FerroGard®-903 Plus

June 2019, Version 02.02

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 Long term protection and durability • Can be applied to the surface of existing repairs and to surrounding areas to prevent the development of incipient anodes

• Protects both, cathodic (principle 9) and anodic (principle 11) zones of reinforcing steel Can be applied where other repair/prevention op-

tions are not viable Economic extension of the service life of reinforced concrete structures

 Easy, economical application, renewable Comply with GHS/CLP regulation Can be used as part of a simple yet effective concrete repair and protection system Penetration depth can be tested on site using the

Sika "Qualitative Analysis Test" - refer to your local

APPROVALS / CERTIFICATES

Technical Service Department for details

- BRE, The use of surface applied Sika® FerroGard® 903 corrosion inhibitor to delay the onset of chloride induced corrosion in hardened concrete, BRE Client Report No. 224-346, 2005
- Mott MacDonald, Evaluation of Sika® FerroGard® 901 and 903 Corrosion Inhibitors, Ref. 26063/001 Rev A, SAMARIS (Sustainable and Advanced Materials for
- Road Infrastructure) Final Report, Deliverables D17a, D17b, D21 & D25a, Copenhagen, 2006 Mulheron, M., Nwaubani, S.O., Corrosion Inhibitors for High Performance Reinforced Concrete Struc-
- tures, University of Surrey, 1999 C-Probe Systems Ltd., Performance of Corrosion Inhibitors in Practice, 2000

PRODUCT INFORMATION

Composition Aqueous solution of amino alcohols and salts of amino alcohols Packaging 20 L cans and 200 L drums Appearance / Colour Transparent liquid, colourless to slightly yellowish. Shelf life 24 months from date of production. Storage conditions Store in a cool environment. In case of frost (< -5 °C), reversible crystallisation may occur. If this happens, let the product warm up at room temperature (+15 to +25 °C), then stir well to re-dissolve the crystals. Protect from direct sunlight, heat and moisture. Density ~1.05 (+20 °C)

~10

Viscosity ~20 mPa.s s (Brookfield RVT, spindle 2, 100 rpm, 23 °C) **TECHNICAL INFORMATION**

Penetration Depth

pH-Value

Site surveys and experimental tests have shown that Sika® FerroGard®-903 Plus can penetrate through concrete at a rate of a few millimetres per day and to a depth of approximately 25 to 40 mm in 1 to 2 months. This penetration rate can be faster or slower dependent on the porosity of the concrete. Sika® FerroGard®-903 Plus penetrates through both liquid and vapour phase diffusion mechanisms. Note: If after application of Sika® FerroGard®-903 Plus, the concrete sur-

face is coated with protective coatings (cement based, acrylic or impregnation) or hydrophobic impregnation, the rate of diffusion of the inhibitor is reduced but not stopped as the mechanism of diffusion liaises then only on the vapour phase As concrete quality and permeability differ, it is recommended to perform

some preliminary depth profile testing by the Sika "Qualitative Analysis" to assess the specific penetration rate.

+5 °C min. / +40 °C max.

SYSTEMS System Structure

Sika® FerroGard®-903 Plus is part of the Sika® Concrete Repair & Protection Systems: Sika MonoTop®, SikaTop® Repair system

Sika® FerroGard®-903 Plus Reinforcement corrosion control Concrete protection Sikagard® Coatings and or Sikagard® Hydrophobic Impregnations

APPLICATION INFORMATION

TECHNICAL INFORMATION

Consumption

Ambient Air Temperature

Substrate Temperature

Product Data Sheet

Sika® FerroGard®-903 Plus

June 2019, Version 02.02

020303040010000016

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Generally $\sim 0.500 \text{ kg/m}^2 (\sim 480 \text{ ml/m}^2)$. For very dense concrete with low permeability, the rate of application of Sika® FerroGard®-903 Plus can be reduced but must not be lower than $0.300 \text{ kg/m}^2 (290 \text{ ml/m}^2).$

To assess project requirements, consumption and depth of penetration shall be checked on site using the Sika "Qualitative Analysis" – refer to the relevant method statement. +5 °C min. / +40 °C max.

nations, Sikagard® breathable coatings or Sikafloor® products (refer to appropriate Product Data Sheet for application details). If non Sika coatings are to be applied, please contact the manufacturers technical department for confirma-Product Data Sheet

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

penetration.

SikaTop® mortars.

MPa / 180 bars)

roGard®-903 Plus.

APPLICATION

equipment.

ing (water hose).

er conditions.

may have deposit at the surface.

take care to avoid ponding.

Sika® FerroGard®-903 Plus

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The concrete shall be free from dust, loose material,

surface contamination, existing renders, laitance, coat-

ings, oil and other materials which reduce or prevent

If the substrate is to be over-coated, the surface pro-

file shall be sufficient to provide the required adhe-

De-laminated, weak, damaged and deteriorated con-

For fair-faced concrete or concrete to be further over-

coated by coatings or hydrophobic impregnation, wa-

ter blast the concrete surface with pressure (up to 18

For concrete surface to be further over-coated by ce-

mentitious material, roughen the surface using suit-

able abrasive blast cleaning techniques or high pres-

For optimum penetration the substrate shall be al-

Sika® FerroGard®-903 Plus is supplied ready for use

and must not be diluted. Do not shake the material

Sika® FerroGard®-903 Plus shall be applied to satura-

tion by brush, roller, low pressure or airless spray

After the application of the last coat, as soon as the

surface become mat, do a low pressure water clean-

The day after application, the treated surfaces shall be

cleaned by pressure washing (approximately 10 MPa /

100 bars) to remove any traces of soluble salts that

Number of coats: This is dependent on the porosity

and moisture content of the substrate and the weath-

Vertical surfaces: Normally, 2 to 3 coats are necessary

to achieve the required consumption. In case of dense

Horizontal Surfaces: Saturate surface by 1 to 2 coats,

Waiting time between coats: This is dependent on the

porosity of the concrete and the weather conditions,

normally 1 to 6 hours. Allow the surface to dry out

Overcoating: If the application is carried out as de-

scribed above, no further treatment is required be-

fore over-coating with Sikagard® hydrophobic impreg-

concrete, additional coats may be required.

between coats to a matt damp appearance.

lowed to dry out prior to the application of Sika® Fer-

sure water-blasting (up to 60 MPa / 600 bars).

crete shall be repaired using Sika MonoTop®or

tion of compatibility with Sika® FerroGard®-903 Plus or

patch repair or before a cementitious overlay, Sika re-

pair or overlay system can be used. Standard prepara-

When using a smoothing coat / pore filler over surface

treated with Sika® FerroGard®-903 Plus, products such

Seal 107, etc. can be used. Cementitious levelling mor-

tars shall only be used if there is a well prepared open

textured surface that is completely cleaned of residue.

If other Sika products are to be used, site trials are re-

If non Sika products are to be used, please contact the

manufacturer technical department for confirmation

of compatibility with Sika® FerroGard®-903 Plus or un-

dertake compatibility and adhesion site trials.

Use water to clean application equipment

IMPORTANT CONSIDERATIONS

Do not apply when rain or frost is expected.

The following construction materials have to be pro-

tected from splashes of Sika® FerroGard®-903 Plus

If the product is applied next to natural stones, it may

be necessary to protect them from splashes as some

Visible concrete defects (spalling, cracks etc) must be

of delaminating or loose concrete, treatment of rein-

FerroGard®-903 Plus can be applied after repair works

might not need to be treated with the inhibitor. If this

is nevertheless done, lower diffusion is then expected

Typical maximum chloride content at rebar level is 1 %

by weight of cement of free chloride ions (correspond-

ing to 1.7 % of sodium chloride). Above this limit, ac-

ies, increased consumption of Sika® FerroGard®-903

cording to site conditions and level of corrosion activit-

Plus can be considered. Trials and corrosion rate mon-

itoring to confirm consumption and effectiveness shall

ment bars, concentration of Sika® FerroGard®-903 Plus

at rebar level shall be minimum 100 ppm when meas-

ured by ionic chromatography to provide efficient pro-

Do not apply in tidal zones or to substrates saturated

Avoid application in direct sun and / or strong wind

Do not apply to concrete in direct contact with drink-

protective coatings.

wind, rain and frost.

LIMITATIONS

* Pretesting of curing compound is recommended.

BASIS OF PRODUCT DATA

site conditions and curing conditions.

OTHER RESTRICTIONS

LEGAL DISCLAIMER

FOR INDUSTRIAL USE ONLY

• FOR PROFESSIONAL USE ONLY

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

• KEEP OUT OF REACH OF CHILDREN

See Legal Disclaimer.

finishing.

If chlorides are already present near the reinforce-

tection. Detailed method available upon request.

(but not overlay) has been carried out (after harden-

ing of the repair material) – freshly repaired area

Alternatively to the method described above, Sika®

repaired using conventional repair methods (removal

CLEANING OF EQUIPMENT

during application:

galvanised steel

discoloration may occur.

forcement, reprofiling etc.).

at the zones that were repaired.

be carried out.

and / or rain.

aluminium

copper

commended to confirm preparation and suitability.

as SikaTop®-121, Sikagard®-720 EpoCem®, SikaTop®-

undertake compatibility and adhesion site trials.

When Sika® FerroGard®-903 Plus is used within a

tion (pre-wetting) shall be applied.

Moist curing should commence immediately after

Protect newly applied material from direct sunlight,

As with all cement based materials, avoid contact with

aluminum to prevent adverse chemical reaction and

possible product failure. Insulate potential areas of

Refer to Sika® Antisol®-250 W product data sheet for

appropriate epoxy such as Sikadur[®] 32 Hi-Mod.

Results may differ based upon statistical variations

depending upon mixing methods and equipment,

temperature, application methods, test methods, actual

ENVIRONMENTAL, HEALTH AND SAFETY

chemical products, user should refer to the actual Safety

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

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF

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

For further information and advice regarding

transportation, handling, storage and disposal of

Data Sheets containing physical, environmental,

at 1-800-424-9300, International 703-527-3887.

contact by coating aluminum bars, rails, posts, with an

Depending on substrate conditions, the application of Sika® FerroGard®-903 Plus may lead to a slight darkening of the surface. Proceed with preliminary testing. All surface treatments are to be carried out using cold potable water.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and

ECOLOGY. HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

tions relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

The information, and, in particular, the recommenda-

TOWN PROJECT NO. GL-2022-18

REVISIONS

4 RE

SikaFerroGard-903Plus-en-AE-(06-2019)-2-2.pdf





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obligation to read and follow the warnings and

Data Sheet prior to use of the SIKA product.

instructions for each SIKA product as set forth in the

current product label, Product Data Sheet and Safety

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

replacement of this product exclusive of any labor costs.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL

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

https://usa.sika.com/en/group/SikaCorp/termsandconditions.html

Sale of SIKA products are subject to the Terms and

Conditions of Sale which are available at

or by calling 1-800-933-7452.

MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL

use and assumes all risks. User's and/or buver's sole

remedy shall be limited to the purchase price or

APPLY INCLUDING ANY WARRANTY OF

Tel: +971 4 439 8200

Product Data Sheet Sika® FerroGard®-903 Plus June 2019, Version 02.02 02030304001000001

BY OTHERS.

SIKA NORTHERN GULF

Tel: +973 177 38188

gcc.sika.com

4/4

Bahrain / Qatar / Kuwait



CHARACTERISTICS / ADVANTAGES

• Integral penetrating corrosion inhibitor

characteristics Polymer-modified

Silica fume enhanced

reactive aggregate

Self Consolidating Concrete - Excellent placement

Prepackaged coarse aggregate. Eliminates the need to

extend material in the field. Eliminates the risk of

Can be pumped or poured into forms and gets

excellent consolidation without vibrating



PRODUCT DATA SHEET

Sikacrete®-211 SCC Plus

ONE-COMPONENT, CEMENTITIOUS, POLYMER-MODIFIED, SELF CONSOLIDATING CONCRETE MIX WITH AN INTEGRAL MIGRATING CORROSION INHIBITOR

PRODUCT DESCRIPTION

Sikacrete®-211 SCC Plus is a one-component, self consolidating concrete containing factory blended coarse aggregate. This self consolidating concrete bag is silica fume and polymer modified and also contains a migrating corrosion inhibitor.

USES

- Full depth repairs On grade, above and below grade on concrete On horizontal surfaces
- Vertical and overhead surfaces when formed and pumped or poured As a structural repair material for parking facilities, industrial plants, walkways, bridges, tunnels, dams,
- and balconies Filler for voids and cavities

PRODUCT INFORMATION

Packaging	65 lb. (29.5 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 from moisture. If damp, discard material	

Product Data Shee

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Compressive Strength	1 day	2,000 psi (13.8 MPa)	(ASTM C-39
	7 days	5,500 psi (37.9 MPa)	
	28 days	6,500 psi (44.8 MPa)	50 % R.H
Flexural Strength	1 day	500 psi (3.4 MPa)	(ASTM C-293)
	7 days	750 psi (5.2 MPa)	
	28 days	1,000 psi (6.9 MPa)	50 % R.H
Splitting Tensile Strength	7 days	750 psi (5.2 MPa)	(ASTM C-496
	28 days	1,000 psi (6.9 MPa)	73 °F (23 °C) 50 % R.H
Tensile Adhesion Strength	1 day	250 psi (1.7 MPa)	(ASTM C-1583)
	7 days	300 psi (2.1 MPa)	73 °F (23 °C) 50 % R.H
Slant Shear Strength	1 day	1,000 psi (6.9 MPa)	(ASTM C-882
	7 days	1,500 psi (10.3 MPa)	modified)*
	28 days	2,500 psi (17.2 MPa)	_
	* Mortar scrubbed into subs	trate at 73 °F (23 °C) and 50 % R.H.	
Shrinkage	28 days	< 0.05 %	(ASTM C-157 modified)
Freeze-Thaw Stability	300 cycles	> 99 %	(ASTM C-666)
Freeze Thaw De-Icing Salt Resistance	50 cycles	2	(ASTM C-672)
Sulfate Resistance	0.006*		(ASTM C-1012)
	*Length change after 6 mon		
Rapid Chloride Permeability	28 days	< 650 Coulombs	(ASTM C-1202 AASHTO T-277)

napia emeriae i ermeasiirey	20 days	<u>< 0.00 Codiolilibs</u>	AASHTO T-27	
APPLICATION INFORMATI	ON			
Mixing Ratio	5.5-6 pints (2.6-2.8 L)			
Coverage	0.50 ft ³ (0.01 m ³) per bag (Coverage figures do not include allowance for surface profile and porosity or material waste)			
Layer Thickness	Min. 1" (25 mm)	Max. 8" (203 mm)		
	 Thicker applications have been done successfully. Please consult Sika° Technical Service. 			
Consistency	Initial spread Spread at 30 min.	25-30" (6.4-7.6 cm) > 15" (3.9 cm)	(ASTM C-161:	
Product Temperature	65–75 °F (18–24 °C)			
Ambient Air Temperature	> 45 °F (7 °C)			
Substrate Temperature	> 45 °F (7 °C)			
Pot Life	 60 minutes As the temperature will affect the pot life, application temperature: Above 73 °F (23 °C) will reduce the pot life and slump 			

Below 73 °F (23 °C) will extend the pot life and slump

Product Data Sheet Sikacrete®-211 SCC Plus March 2020, Version 01.04



APPLICATION INSTRUCTIONS

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" (25 mm) deep. Preparation work should be done by appropriate

means. Obtain an exposed aggregate surface with a minimum surface profile of $\pm 1/8$ " (3 mm) (CSP-7-8) on clean, sound concrete Substrate should be Saturated Surface Dry (SSD) with

should remain during application. **Reinforcing Steel**

 Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred, the steel should be high-pressure washed with clean water after

clean water prior to application. No standing water

mechanical cleaning. For priming and protection of reinforcing steel use Sika® Armatec® 110 EpoCem (consult PDS).

MIXING

- Start mixing with 5.5 pints (2.6 L) of water. An additional 0.5 pint (0.2 L) can be added if needed.
- Do not over water as excess water will cause Add Sikacrete®-211 SCC Plus while continuing to mix.
- Mechanically mix to a uniform consistency, for 3 minutes with a low-speed drill (400–600 rpm) and paddle or in appropriate-size mortar mixer or concrete

APPLICATION

- Pre-wet surface to SSD.
- Ensure good intimate contact with the substrate is achieved. To accomplish this, material should be scrubbed into the substrate or other suitable means should be employed such as vibration of the material
- or pumping under pressure. Vibrate form while pouring or pumping. Pump with a variable pressure pump.
- Continue pumping until a 3 to 5 psi increase in normal line pressure is evident then STOP pumping. Form should not deflect. Vent to be capped when steady flow is evident, and

CURING TREATMENT

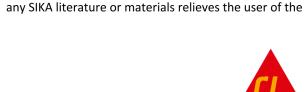
 As per ACI recommendations for Portland cement concrete, curing is required.

following layers of mortar, leveling mortar or

 Moist cure with wet burlap and polyethylene, a fine mist of water or Sika® Antisol®-250 W*. Curing compounds adversely affect the adhesion of

forms stripped when appropriate.

Product Data Sheet Sikacrete®-211 SCC Plus March 2020, Version 01.04







(EPA Method 24)

Product Data Sheet

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TYPICAL NOTES

TITLE

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Sikacrete®-211 SCC Plus 4/4

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