

LIMESTONE FACADE REPAIRS KENOSHA COUNTY ADMINISTRATION BUILDING

1010 56th Street Kenosha, WI 53140

PROJECT GENERAL NOTES

- HISTORIC GUIDELINE COMPLIANCE: PROJECT SHALL MEET REQUIREMENTS FOR SECRETA INTERIORS STANDARDS FOR THE RESTORATION AND PRESERVATION OF HISTORIC STRUC THE FOLLOWING PRESERVATION BRIEFS APPLY;
 - 1 Cleaning and Water-Repellent Treatments for Historic Masonry Buildings
 - 2 Repointing Mortar Joints in Historic Masonry Buildings
- 2. ALL DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STATE OF WISE BUILDING CODE LATEST ADDITION. ALL PERMITS ARE BY THE CONTRACTOR.
- 3. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF, AND COORDINATION WITH, ALL SHOWN ON THESE DRAWINGS RELATIVE TO EXISTING CONDITIONS PRIOR TO BEGINNI
- 4. CONTRACTOR SHALL REPORT IMMEDIATELY TO THE ARCHITECT ANY DIMENSION(S) OF DISCREPANCIES VERBALLY, A WRITTEN REPORT SHOULD PROMPTLY FOLLOW. CONTR SHALL CEASE WORK IN THE AFFECTED AREA UNTIL DIRECTED BY THE ARCHITECT.
- 5. THE CONTRACTOR SHALL PROVIDE ALL METHODS AND EQUIPMENT FOR PROTECTING BUILDING, ALL MATERIALS, AND PERSONNEL FROM FIRE OR OTHER DAMAGE PRIOR TO THE CONTRACTOR SHALL SUBMIT THE APPROVED METHODS AND EQUIPMENT IN WRITI OWNER AND ARCHITECT'S REVIEW PRIOR TO STARTING WORK.
- 6. THE CONTRACTOR SHALL COMPLY WITH ALL SAFETY AND HEALTH LAWS AND REGULAT
- 7. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SHEATHING, REQUIRED FOR THE SAFETY AND PROPER EXECUTION OF THE WORK. MAINTAIN EGRESS AT SOUTH ENTRANCE. COORDINATE ALL TEMPORARY CLOSURES OF CODE - REQUIRED EGRESS WITH OWNER, ARCHITECT AND FIRE DEPARTMENT IF NECESSARY AND BUILDING ACCESS THROUGHOUT THE COURSE OF ENTIRE CONSTRUCTION SCHEDULE.

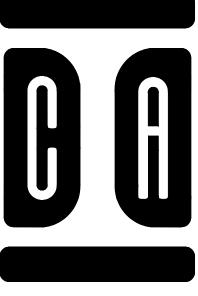
ARY OF THE CTURES.	8.	EXECUTION OF THE WORK WILL INVOLVE CONSIDERATION FOR ALLOWING THE OWNER TO CONTINUE THE OPERATION OF THE BUILDING AND THE BUSINESS IN THE FACILITY AND ADJACENT FACILITIES. PRIOR TO THE AWARD OF THE CONTRACT, THE CONSTRUCTION SCHEDULE PREPARED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE ARCHITECT AND SHALL BE COORDINATED WITH THE FACILITIES DEPARTMENT. OWNER'S APPROVAL OF THE PROPOSED SCHEDULE SHALL SUPERCEDE THE CONTRACT. PROVIDED THE OVERALL TIME IS NOT CHANGED.
CONSIN	9.	THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDITIONS TO DETERMINE ALL SERVICES (ELECTRICAL, MECHANICAL AND PLUMBING) AFFECTED BY THE REPAIR WORK. THE CONTRACTOR SHALL MAKE NECESSARY TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SERVICES TO ALL
DIMENSIONS NG WORK.		AREAS OF THE BUILDING DIRECTLY AND INDIRECTLY AFFECTED BY THE WORK. THE CONTRACTOR SHALL SUBMIT METHODS AND SCHEDULE OF CONNECTIONS TO THE OWNER FOR APPOVAL PRIOR TO BEGINNING WORK.
R ACTOR THE STARTING.	10.	AS THE WORK PROGRESSES, THE CONTRACTOR SHALL PRODUCE "AS-BUILT" DRAWINGS FOR THE INSTALLATION OF ALL REPAIR ITEMS UNDER THE CONTRACT. THE ARCHITECT WILL PROVIDE THE GENERAL CONTRACTOR WITH A SET OF REPRODUCIBLE PLANS FOR THIS PURPOSE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE AS-BUILT DRAWINGS ACCORDING TO THE JOB PROGRESS. EACH PAY REQUEST SUBMITTED BY THE CONTRACTOR SHALL BE ACCOMPANIED
ING FOR THE		BY A COPY OF THE UPDATED AS-BUILT DRAWINGS.
TIONS.	11.	THE CONTRACTOR SHALL CALL "DIGGER'S HOTLINE" AT 800-242-8511, 48 HOURS (EXCLUDING WEEKENDS AND/OR HOLIDAYS) PRIOR TO DIGGING ANY EXCAVATION. "DIGGER'S HOTLINE" WILL CONTACT UTILITY COMPANIES TO LOCATE AND MARK THEIR UNDERGROUND FACILITIES. NO SUCH
OR THE ANCE.		WORK SHALL COMMENCE PRIOR TO VERIFICATION THAT ALL UTILITIES HAVE RESPONDED.
R, DUT THE	12.	PROTECT TREES, SHRUBS, LAWNS, AND OTHER FEATURES WITHIN PROJECT LIMITS. RESTORE DAMAGED FEATURES TO ORIGINAL CONDITION.



DRAWING INDEX

GENERAL

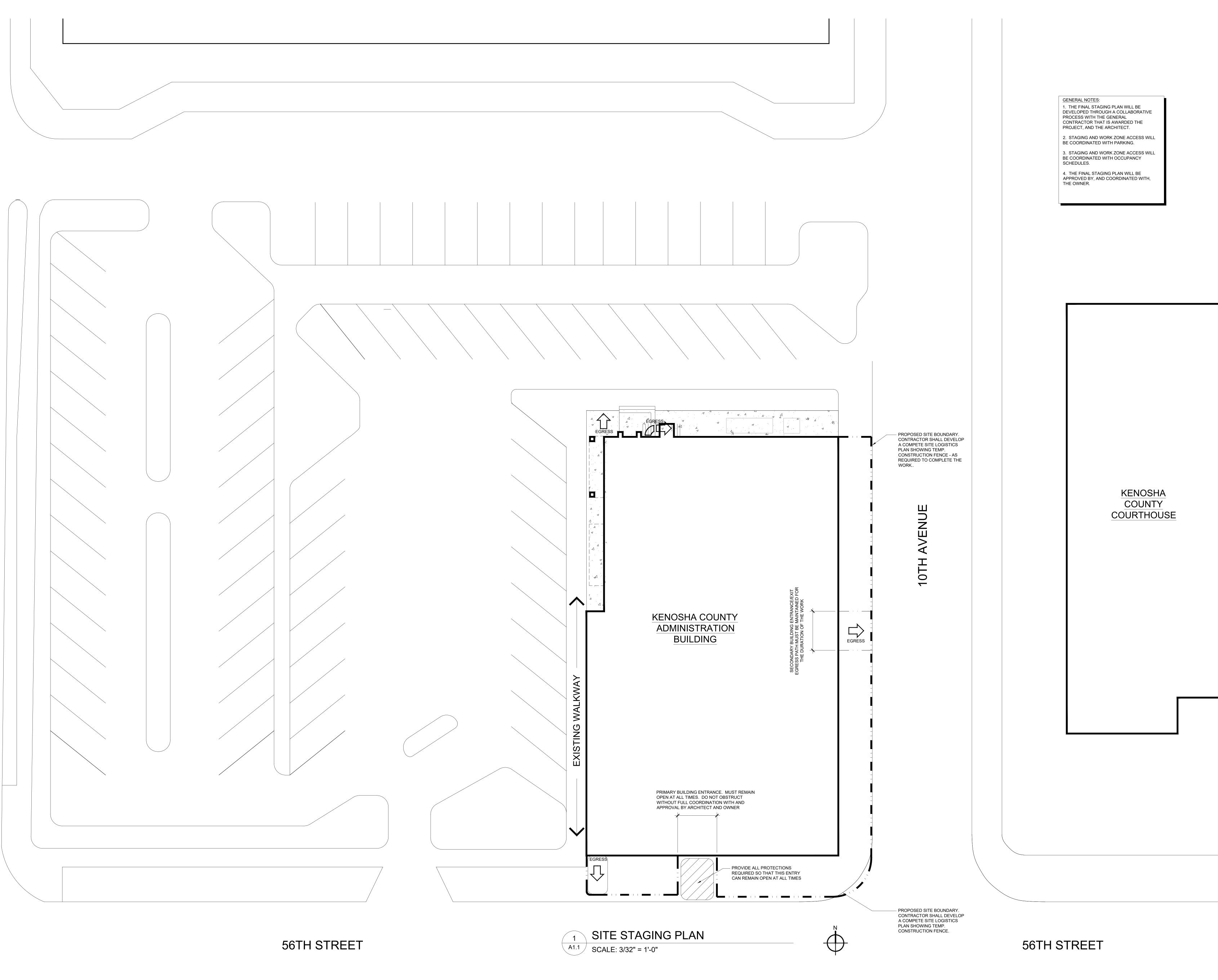
- A0.1 COVER SHEET, INDEX AND GENERAL NOTES
- A1.1 SITE PLAN / STAGING PLANA2.1 OVERALL EXTERIOR ELEVATIONS
- A3.1 EAST ELEVATION
- A3.2 SOUTH ELEVATION A4.1 WALL SECTION & DI
- A4.1WALL SECTION & DETAILSA4.2WALL SECTION & DETAILS
- A4.3 REPAIR DETAILS
- A4.4 REPAIR DETAILSA8.1 GUIDELINE SPECIFICATION
- A8.2 GUIDELINE SPECIFICATION

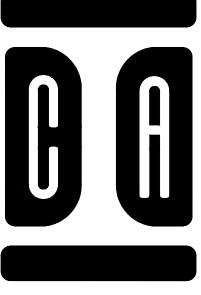


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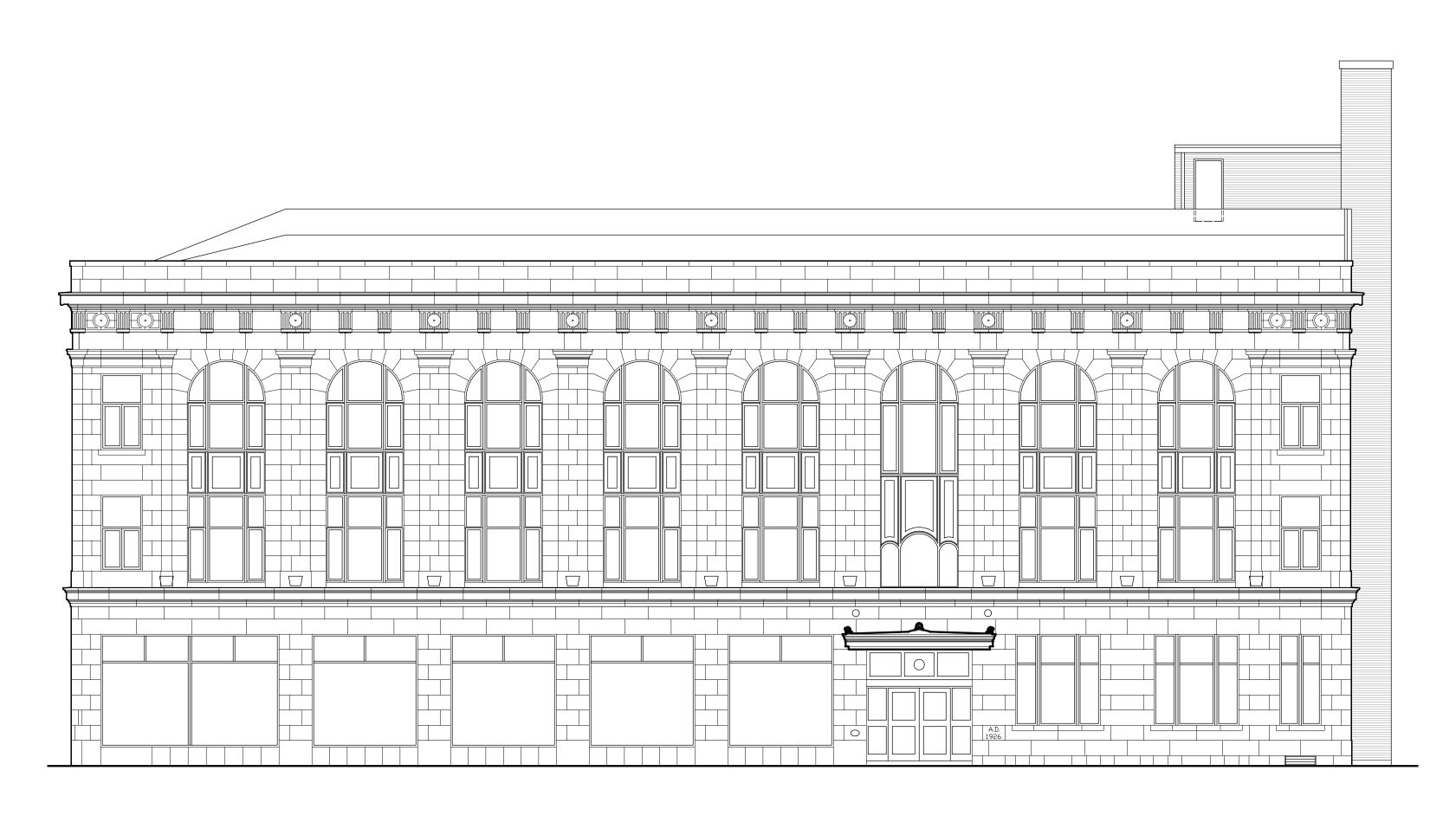


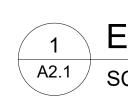






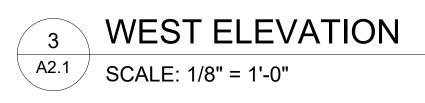


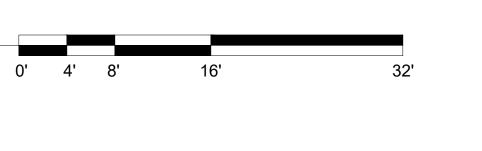


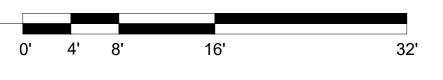


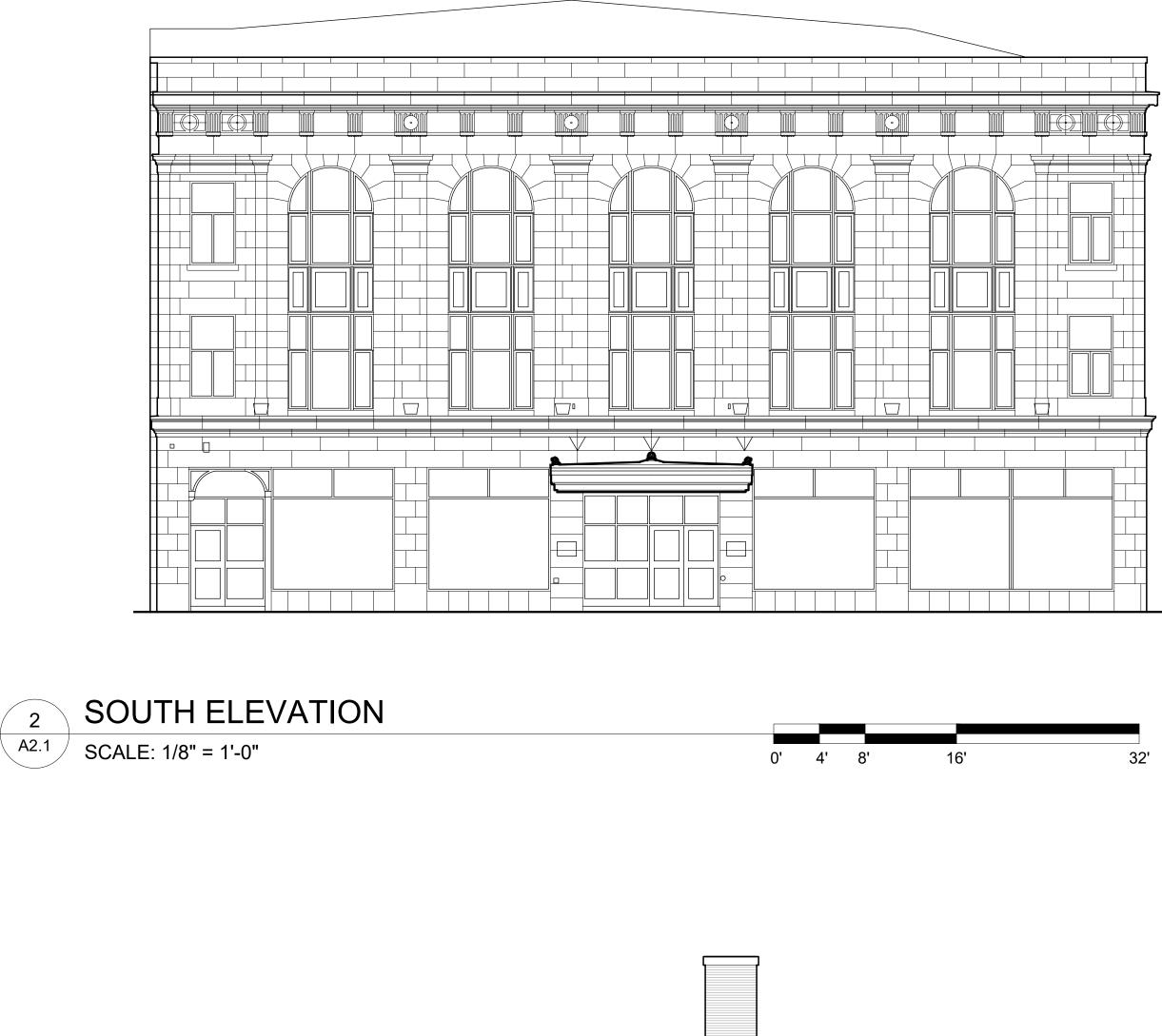
EAST ELEVATION A2.1 SCALE: 1/8" = 1'-0"



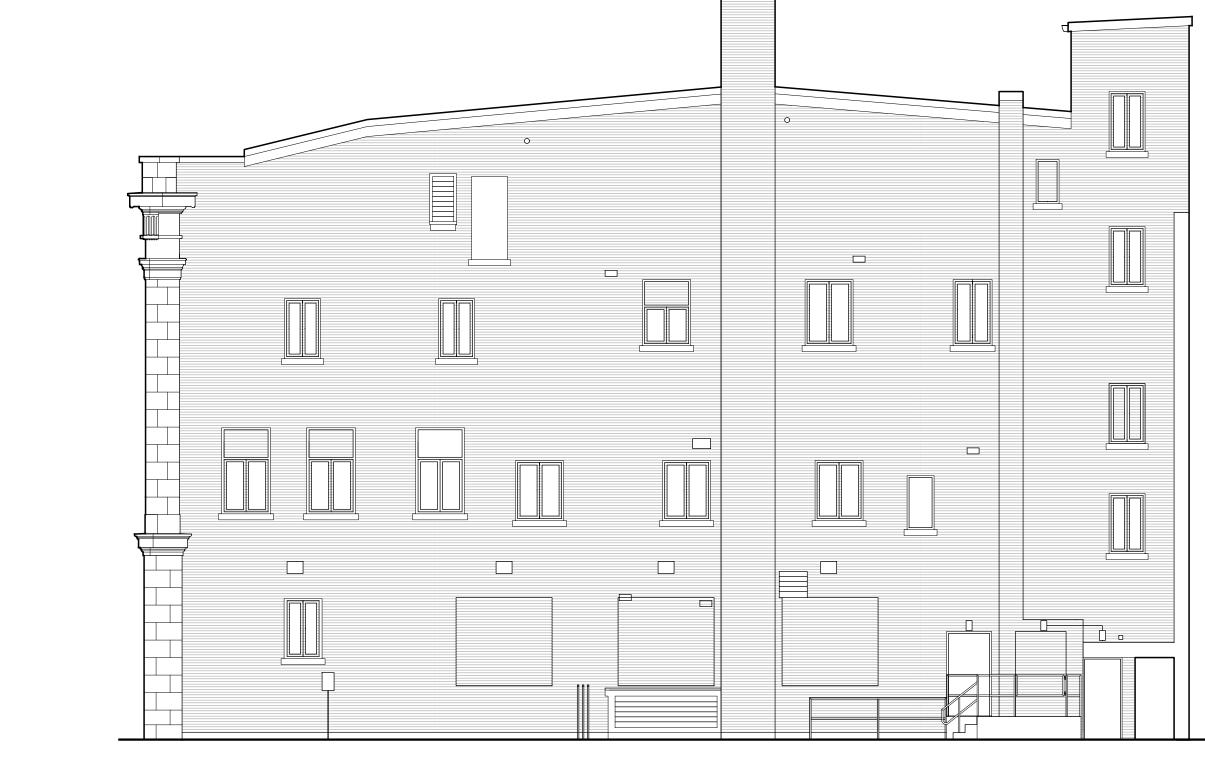


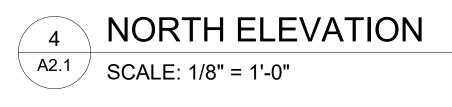


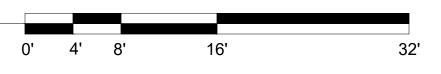








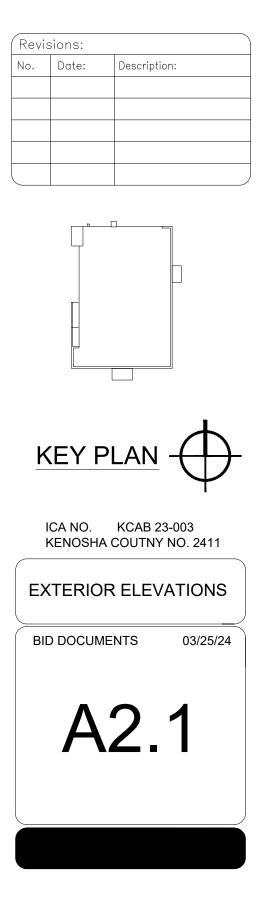




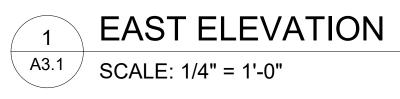


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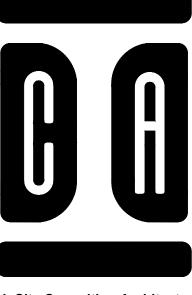






LEGEND:		
	REHAB CODE A:	REMOVE AND REPLACE EXISTING LIMESTONE WITH NEW, MATCHING EXISTING IN ALL WAYS
	REHAB CODE B:	PERFORM DUTCHMAN REPAIR AT EXISTING STONE. CUT, REMOVE AND REPLACE LIMESTONE WITH NEW, MATCHING EXISTING IN ALL WAYS
	REHAB CODE C:	REPAIR HOLE WITH MORTAR OR PERFORM DUTCHMAN REPAIR AT EXISTING STONE. CUT, REMOVE AND REPLACE HOLE IN LIMESTONE WITH NEW, MATCHING EXISTING IN ALL WAYS

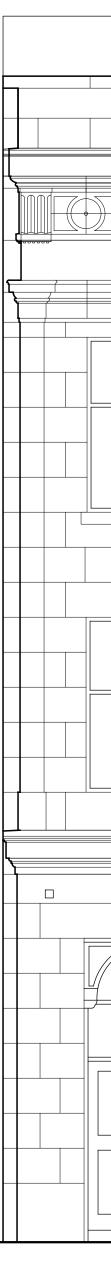
0' 2' 4' 8' 16'



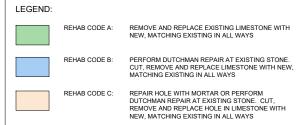
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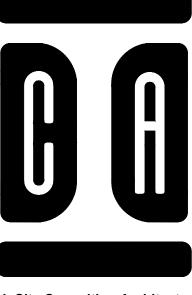






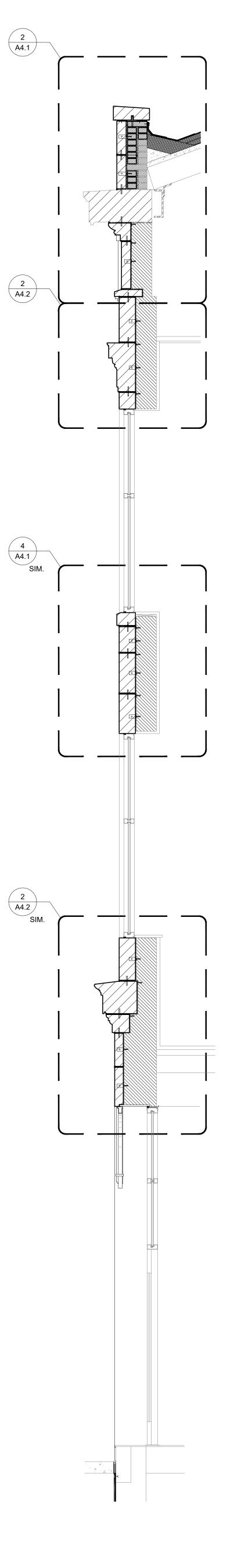


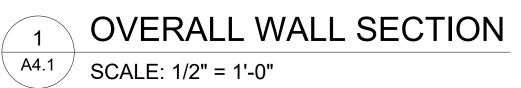


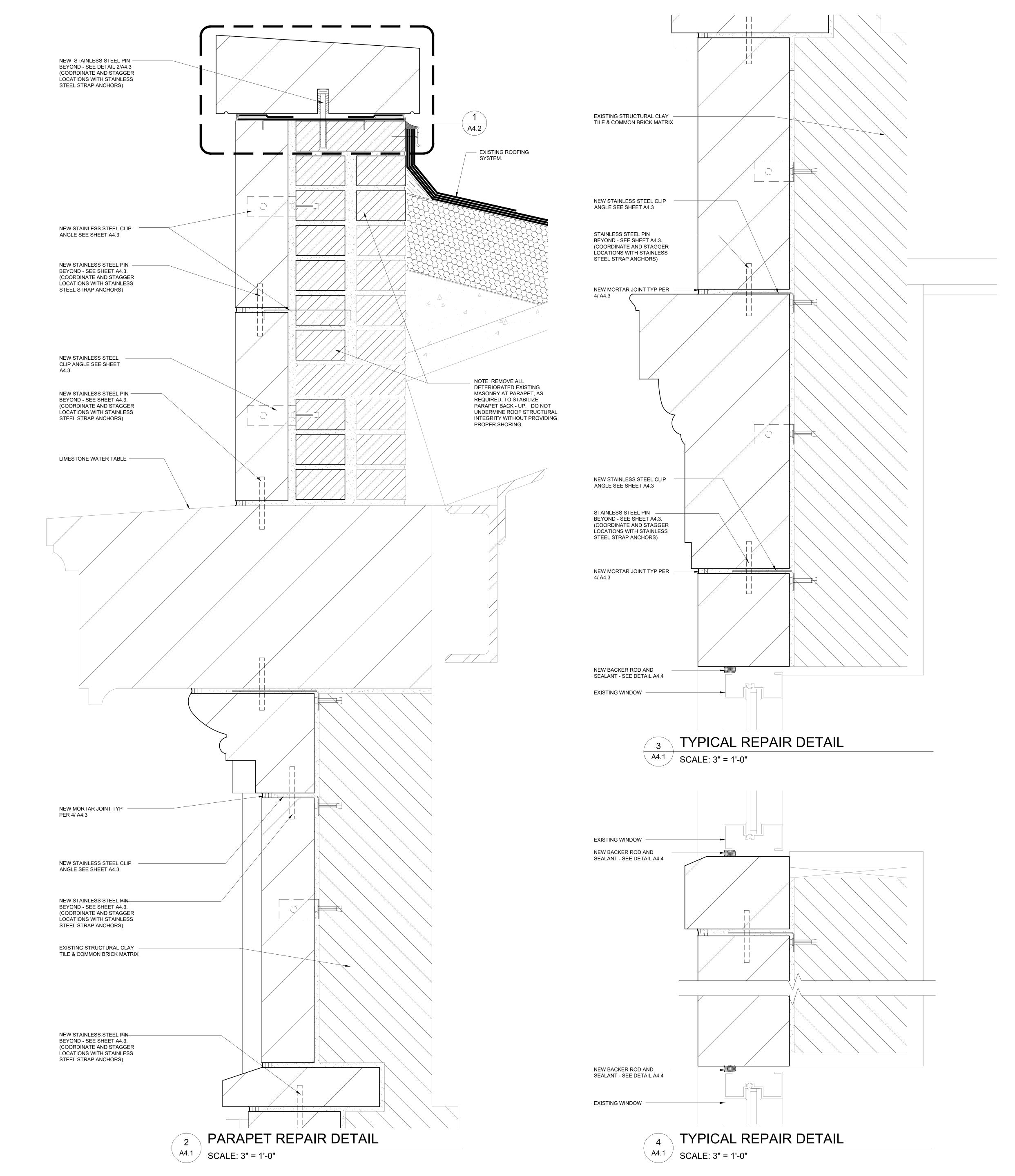


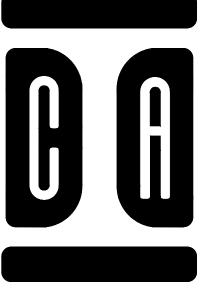






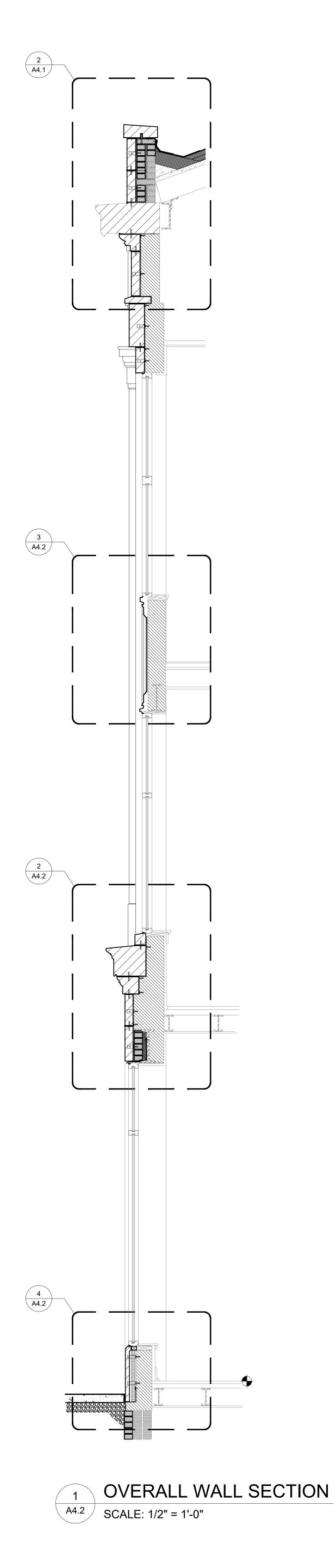


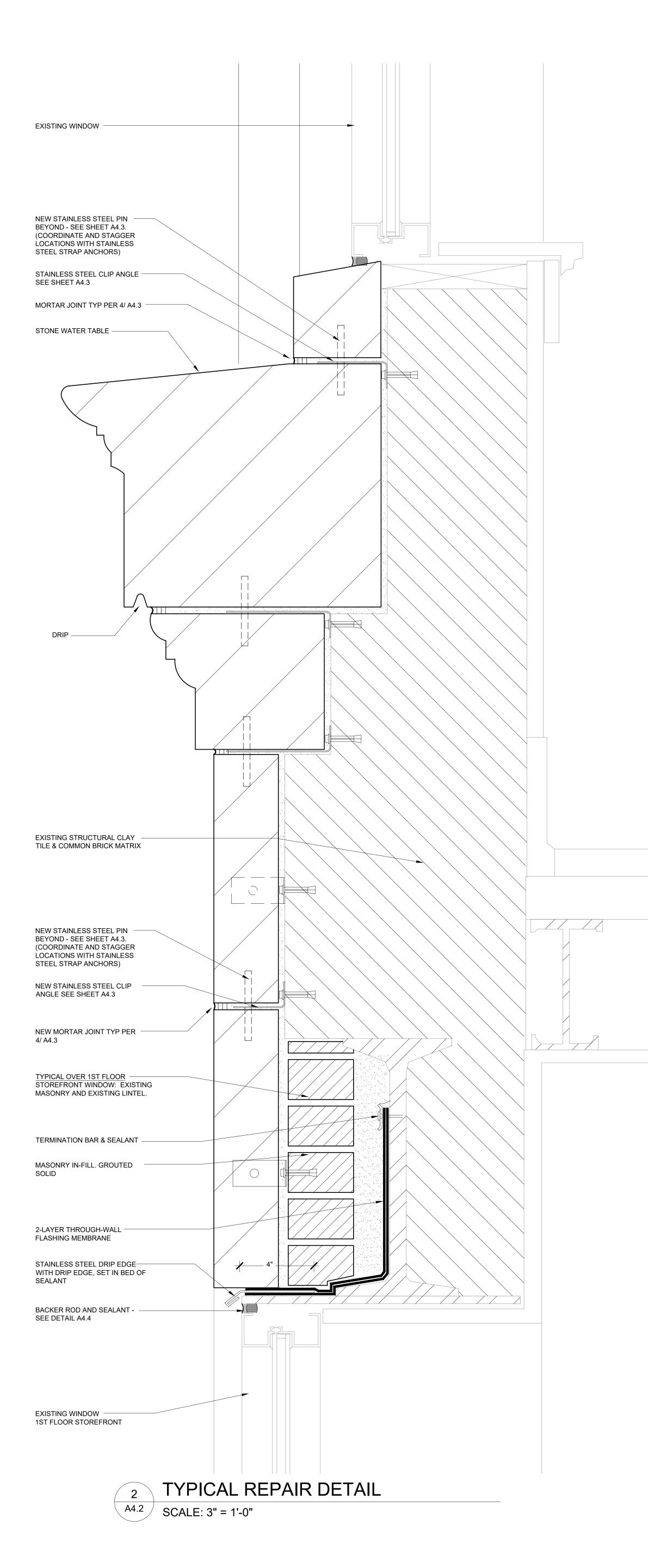


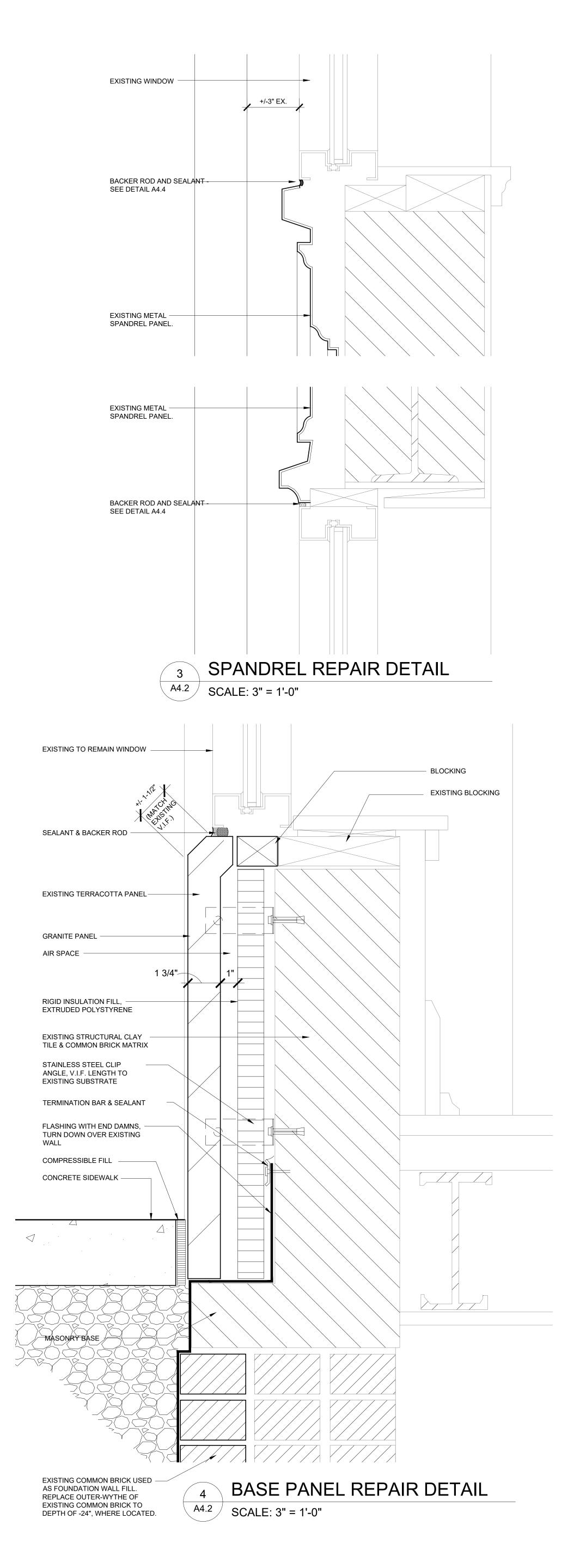


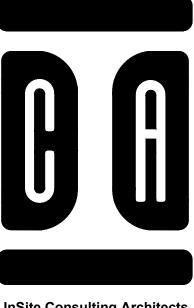






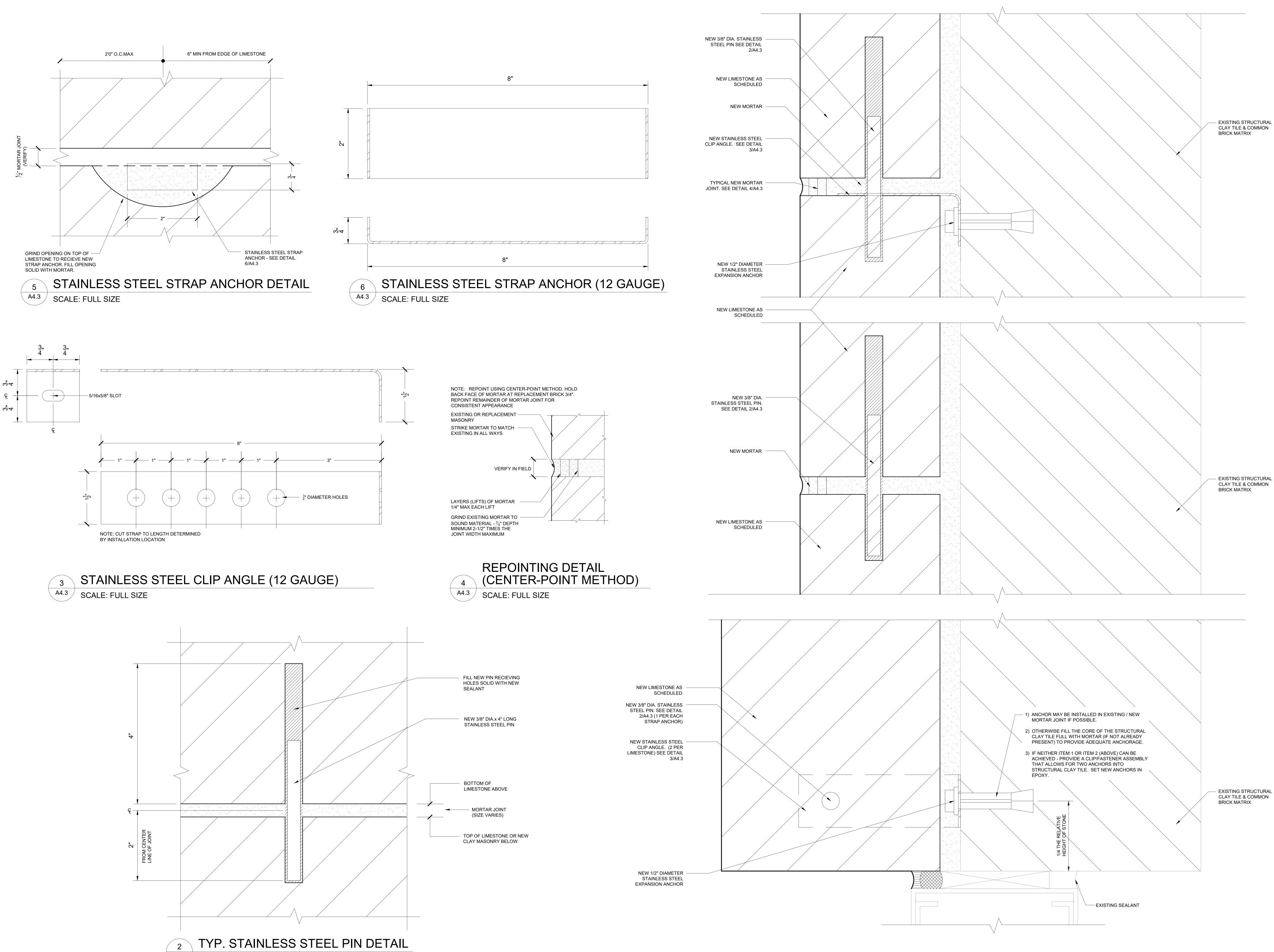








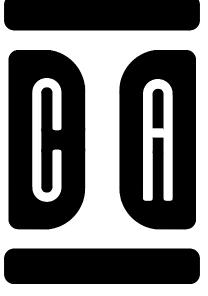




A4.3 SCALE: FULL SIZE

STONE CLADDING - ATTACH NEW TO EXISTING A4.3 SCALE: FULL SIZE

1



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Kenosha County Administration Building 1010 56th Street Kenosha, WI 53140





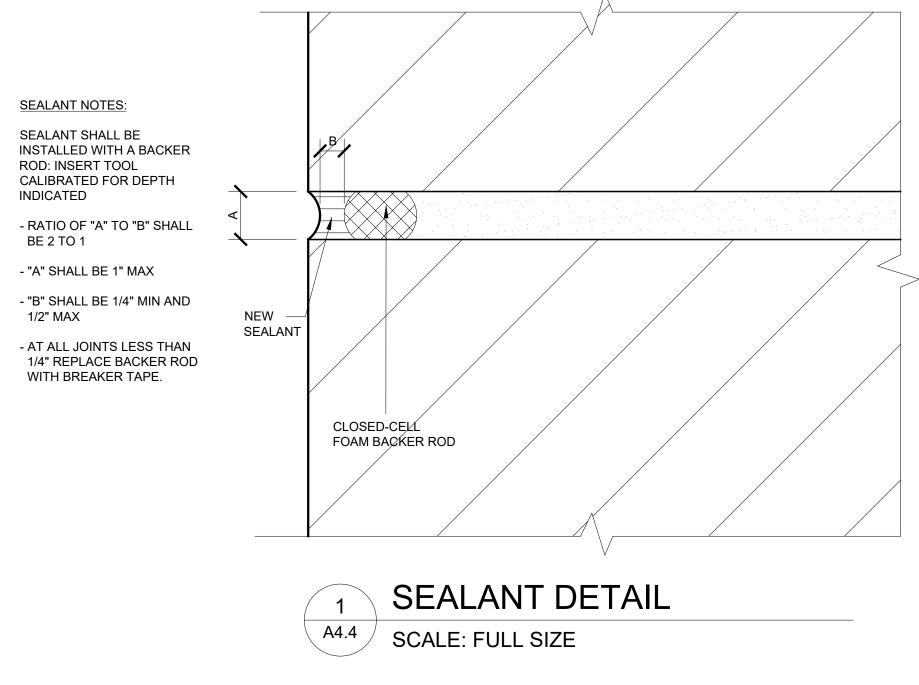
KENOSH

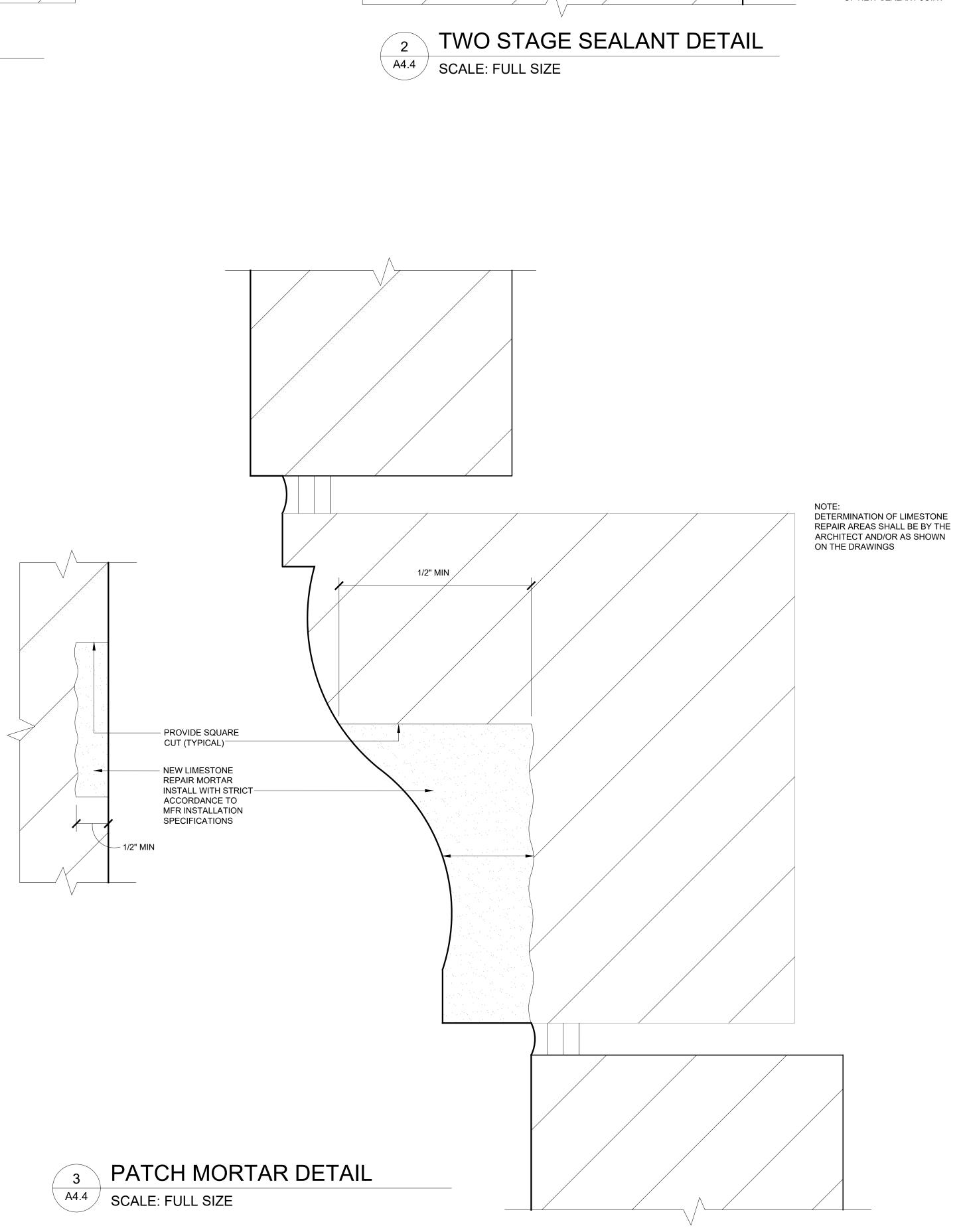
LIME

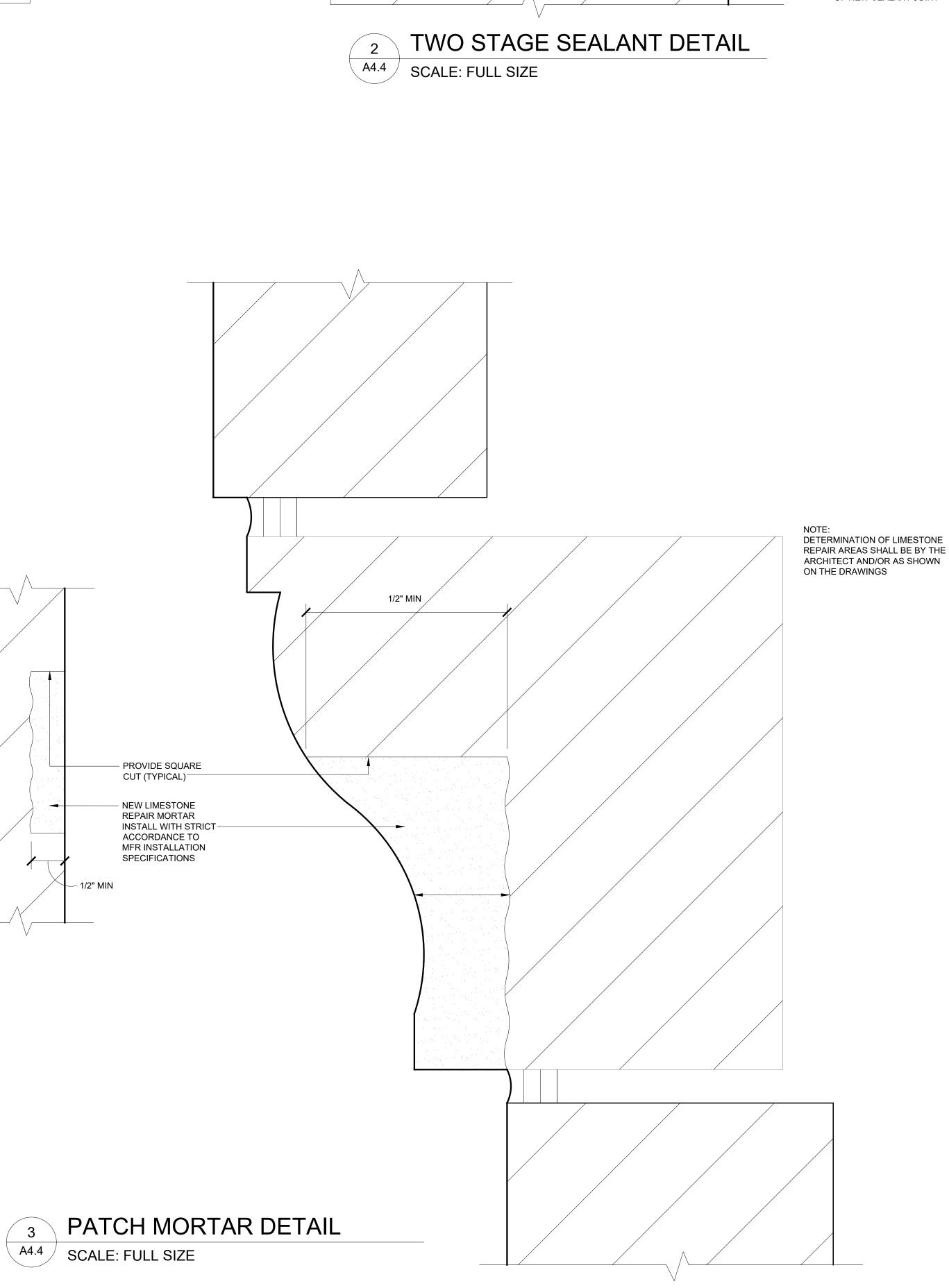
— EXISTING STRUCTURAL CLAY TILE & COMMON BRICK MATRIX

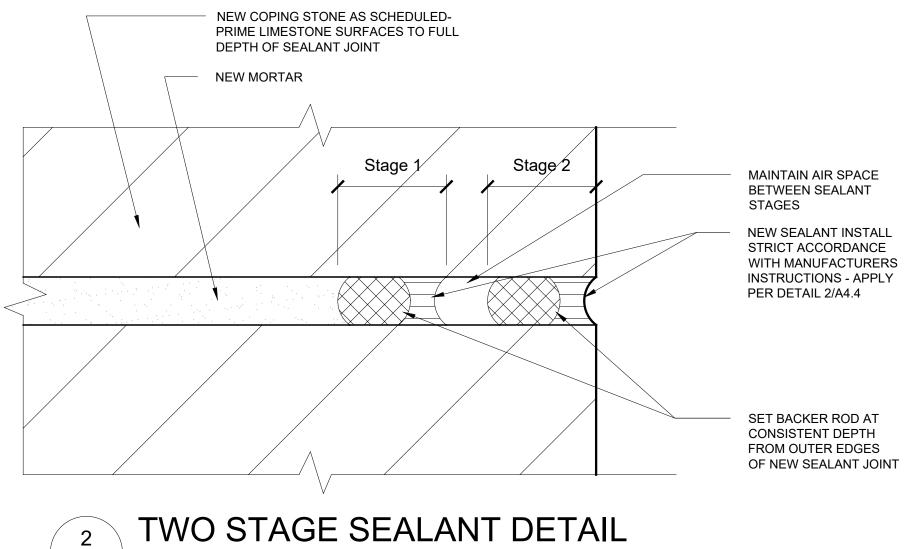
– EXISTING STRUCTURAL CLAY TILE & COMMON





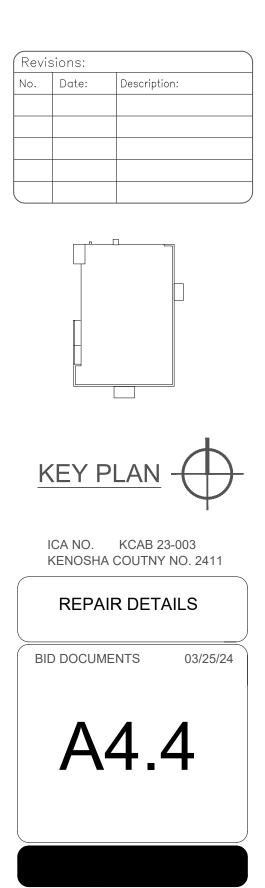












GUIDELINE SPECIFICATIONS

GENERAL REQUIREMENTS

PART 1 - GENERAL

1. WORK INCLUDED

- 1.1. THIS STATEMENT IS GIVEN ONLY FOR THE PURPOSE OF ACQUAINTING PROSPECTIVE BIDDERS WITH THE PROJECT AND IS NOT INTENDED TO GIVE BIDDERS A COMPLETE DESCRIPTION OF ALL THE WORK OR MATERIALS. IT IS INTENDED ONLY AS AN AID FOR UNDERSTANDING THE SCOPE OF THE PROJECT. ALL DIMENSIONS AND EXISTING CONDITIONS ARE TO BE VERIFIED BY THE BIDDER.
- 1.1.1. PROVIDE PROPERLY DESIGNED PROTECTIVE CANOPIES, ENCLOSURES, RAILS, AND SIMILAR ITEMS AND DEVICES AS NECESSARY AND AS REQUIRED TO PROVIDE FOR NORMAL PUBLIC PASSAGE AND TO PREVENT BODILY INJURY TO OCCUPANTS OF THE BUILDING. THE BUILDING WILL BE OCCUPIED FOR THE DURATION OF THE PROJECT.
- 1.1.2. TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN REPRESENTS THE GENERAL CURRENT CONDITIONS. THE ARCHITECT DOES NOT GUARANTY THE COMPLETENESS OR ACCURACY OF THE EXISTING CONDITIONS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS RELATED TO THE NEW WORK. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR HIS REVIEW PRIOR TO PERFORMING THE WORK. ANY WORK PERFORMED PRIOR TO THE ARCHITECT'S REVIEW AND SUBSEQUENT RESOLUTION IS SUBJECT TO REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST OR BURDEN TO THE OWNER.
- RESTORATION OF THE EXTERIOR FACADE AT ALL AREAS AS SHOWN ON THE DRAWINGS. WORK INCLUDES 1.1.3. REMOVAL, PARTIAL SALVAGE, AND REPLACEMENT OF PORTIONS OF THE EXTERIOR LIMESTONE MASONRY WALL CONSTRUCTION AS DESCRIBED HEREIN. RESTORATION OF DAMAGED STRUCTURAL STEEL PERTAINING TO THE LIMESTONE RESTORATION. REPLACEMENT OF BRICK MASONRY BACK-UP TO THE EXTENT DESCRIBED HEREIN AND AS REQUIRED TO COMPLETE THE LIMESTONE AND STRUCTURAL STEEL RESTORATION. CLEANING OF EXTERIOR WALL SURFACES AFFECTED BY THE WORK. REPLACEMENT OF ALL BUILDING SEALANTS IN THE PROJECT AREA AS DESCRIBED HEREIN. IN ALL WORK IT IS THE INTENT OF THE ARCHITECT AND OWNER THAT MATERIALS BE USED THAT ADHERE STRICTLY TO THE REQUIREMENTS OF THE DRAWINGS AND GUIDELINE SPECIFICATIONS AS WELL AS ALL LOCAL, STATE AND FEDERAL CODES, STATUTES AND GUIDELINES REGARDING THIS HISTORIC FACILITY.
- ALL FACADE REHABILITATION WORK SHALL BE PERFORMED IN A HISTORICALLY ACCURATE MANNER. 1.1.4.
- PERFORM ALL WORK IN ACCORDANCE WITH ALL STATE AND LOCAL ORDINANCES. 1.1.5.
- 1.1.6. FURNISH AND INSTALL ALL CONTINGENT WORK AS NECESSARY AND AS REQUIRED TO FULLY COMPLETE THE PROJECT PER THE INTENT OF THIS GUIDELINE SPECIFICATION.
- 2. QUALITY ASSURANCE
- 2.1. ALL WORK DESCRIBED IN THESE GUIDELINE SPECIFICATIONS OR SHOWN ON THE DRAWINGS AND ALL WORK NECESSARY TO COMPLETE THE WORK AS DESCRIBED OR SHOWN IS TO BE EXECUTED IN A THOROUGHLY SUBSTANTIAL AND WORKMANLIKE MANNER. ALL WORK SHALL BE DONE BY PERSONS WHO ARE THOROUGHLY EXPERIENCED IN THEIR PARTICULAR TRADE OR CRAFTS.
- 3. CONSTRUCTION PERIOD
- 3.1. NO INTERIOR WORK IS REQUIRED.
- 3.2. EXTERIOR WORK SHALL BE PERFORMED DURING THE DAY AND MUST BE COORDINATED WITH THE ARCHITECT AND OWNER.
- 3.3. FOR MATERIALS THAT ARE DELIVERED TO THE PROJECT, THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER, AT LEAST 24 HOURS IN ADVANCE OF SUCH DELIVERY. ALL DELIVERIES SHALL TAKE PLACE DURING NORMAL BUSINESS HOURS.

PART 2 - PRODUCTS

4. NOT USED.

PART 3 - EXECUTION

5. CLARIFICATION OF INFORMATION

- 5.1. SHOULD IT APPEAR THAT THE WORK INTENDED TO BE DESCRIBED, OR ANY OF THE MATTERS RELATIVE THERETO, ARE NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THE DRAWINGS, THE CONTRACTOR SHALL CONSULT THE ARCHITECT FOR SUCH FURTHER DRAWINGS OR EXPLANATIONS AS NECESSARY. THESE DRAWINGS AND EXPLANATIONS SHALL CONFORM TO THE SAME AS FAR AS THEY SHALL BE CONSISTENT WITH ORIGINAL DRAWINGS. IN THE EVENT OF ANY QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE DRAWINGS AND GUIDELINE SPECIFICATIONS, REFERENCE SHALL BE MADE TO THE OWNER WHOSE DECISION SHALL BE FINAL AND CONCLUSIVE. IN NO CASE SHALL ANY WORK PROCEED IN UNCERTAINTY.
- 5.2. IT IS THE INTENTION OF THE DRAWINGS TO PROVIDE A JOB COMPLETE IN EVERY RESPECT. CONTRACTOR SHALL BE RESPONSIBLE FOR THIS RESULT AND SHALL TURN OVER THE PROJECT IN COMPLETE OPERATING CONDITION REGARDLESS OF WHETHER THE DRAWINGS COVER EVERY INDIVIDUAL ITEM IN MINUTE DETAIL.
- 5.3. ON ALL DRAWINGS, FIGURES TAKE PRECEDENCE OVER MEASUREMENTS BY SCALE. LARGE-SCALE DETAILS TAKE PRECEDENCE OVER SMALL-SCALE DETAILS.
- 6. COORDINATION OF WORK
- 6.1. CONTRACTOR SHALL PERFORM ALL CUTTING, FITTING OR PATCHING OF WORK THAT MAY BE NECESSARY TO MAKE ITS SEVERAL PARTS FIT TOGETHER PROPERLY TO RECEIVE OR BE RECEIVED BY WORK OR OTHERS SHOWN UPON. OR REASONABLY IMPLIED BY DRAWINGS FOR THE WORK. ANY COST CAUSED BY DEFECTIVE OR ILL-TIMED WORK SHALL BE BORNE BY PARTY RESPONSIBLE THEREFORE.
- 6.2. CONTRACTOR SHALL NOT ENDANGER ANY WORK BY CUTTING, EXCAVATING, OR OTHERWISE ALTERING THE WORK AND SHALL NOT CUT OR ALTER THE WORK OF OTHERS SAVE WITH THE CONSENT OF THE PROJECT MANAGER.
- 6.3. THE CONTRACTOR SHALL PERFORM CUTTING NECESSARY TO THE COMPLETION OF THE WORK INCLUDING CUTTING NOT SPECIFICALLY SHOWN ON THE DRAWINGS.
- 6.4. PATCHING AND REPAIRING OF THE FINISHED WORK MADE NECESSARY BY CUTTING SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR REQUIRING SUCH WORK.
- 6.5. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM OWNER AND ARCHITECT BEFORE CUTTING ANY STRUCTURAL ELEMENT.

DEMOLITION

PART 1: GENERAL

- 7. WORK INCLUDED
- 7.1. PROVIDE ALL LABOR, MATERIALS, SERVICES AND INCIDENTALS NECESSARY TO PERFORM THE FOLLOWING WORK:
- REMOVE AND DISPOSE OF EXISTING LIMESTONE, MASONRY, AND STRUCTURAL STEEL TO THE EXTENT SHOWN 7.1.1. ON THE DRAWINGS.
- REMOVE AND DISPOSE OF EXISTING COLLATERAL MATERIAL ASSOCIATED WITH THE ABOVE. 7.1.2.
- 8. REGULATORY REQUIREMENTS

8.1. THE FOLLOWING REGULATORY REQUIREMENTS SHALL BE FOLLOWED:

- 8.1.1. LOCAL, STATE AND REGIONAL BUILDING CODES
- 8.1.2. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

8.1.4. NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NE		16.8. IT WILL BE THE ARCHITECT'S PREROGATIVE TO FORBID THE USE OF TOOLS OR METHODS THAT DO NOT PRODUCE THE QUALITY OF WORK THAT IS EXPECTED AND TO INSIST ON THE USE OF TOOLS AND METHODS, WHICH WILL DO THE WORK PROPERLY.		
8.1.5. THE ARCHITECT IS NOT AN ADVISOR OF ASBESTOS-RELATED ISSUES. THOWNER'S ASBESTOS PERSONNEL FOR CLARIFICATIONS.	HE CONTRACTOR SHALL CONSULT THE	16.9. THE ARCHITECT RESERVES THE RIGHT TO APPROVE THE MATERIAL SUPPLIER FOR THE NEW MATERIALS SPECIFIED IN THIS SECTION.		
		16.10. ALL MATERIAL AND WORKMANSHIP QUALITY SHALL BE IN ACCORDANCE WITH CURRENT INDUSTRY STANDARDS AND		
9.1. WHEN WORK INVOLVES REMOVAL OF MASONRY MATERIALS; THE FOLLOWING ENFORCED:	G MINIMUM REQUIREMENTS SHALL BE	PRACTICES IN CONFORMANCE WITH THE ORGANIZATIONS OUTLINED IN 17 REFERENCES BELOW.		
9.1.1. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION AND TAKE ALL N EXPOSING HIS WORKMEN OR BYSTANDERS TO ANY DANGEROUS CONDIT		17. REFERENCES		
9.1.2. PROTECT ALL EXISTING UTILITIES AGAINST DAMAGE. MAINTAIN EXISTING OPERATIONS.	G UTILITIES DURING DEMOLITION	REPRESENTED BY THE ORGANIZATIONS LISTED BELOW.		
9.1.3. PROTECT PASSAGEWAYS AND MAINTAIN ALL EXIT WAYS TO FACILITATE		17.1.1. INDIANA LIMESTONE INSTITUTE OF AMERICA (ILI).		
AROUND THE AREA OF DEMOLITION. DO NOT MODIFY THE FACILITIES CO THAT IS NOT SPECIFICALLY ADDRESSED IN THIS GUIDELINE SPECIFICATI		17.1.2. BRICK INSTITUTE OF AMERICA (BIA).		
9.1.4. PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT AS SETTLEMENT, OR COLLAPSE OF ADJACENT CONSTRUCTION SCHEDULED		17.1.3. MASONRY ADVISORY COUNCIL (MAC).17.1.4. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).		
9.1.5. PROTECT ALL REMAINING PORTIONS OF THE BUILDING, LANDSCAPING AN FOR DEMOLITION. THESE AREAS SHALL BE COMPLETELY PROTECTED D DEBRIS. ANY RESULTING DAMAGE SHALL BE REPAIRED OR REPLACED CONTRACTOR RESPONSIBLE UNDER THE DIRECTION AND APPROVAL OF	URING DEMOLITION AND REMOVAL OF TO LIKE-NEW CONDITION BY THE	17.1.5. FEDERAL SPECIFICATIONS (FS). 18. SUBMITTALS		
9.1.6. PROTECT AREA DESIGNATED BY THE OWNER AND THE ARCHITECT WITH OR SIMILAR MATERIALS TO PREVENT VISIBLE DUST AND DEBRIS FROM E AND DEBRIS PROTECTION MATERIALS UPON JOB COMPLETION.		18.1. EACH SUBMITTAL SHALL BE CLEARLY MARKED WITH THE SPECIFIC SPECIFICATION SECTION, PAGE NUMBER, AND ITEM DESIGNATION THAT IT REPRESENTS.		
9.1.7. WHEN THE WORK INVOLVES REMOVAL OF BUILDING MATERIALS CONTAIL	NING ASBESTOS, NOTIFY THE OWNER'S	18.2. A TOTAL OF THREE (3) COPIES OF EACH SUBMITTAL (DATA SHEETS) ARE REQUIRED.		
ASBESTOS CONSULTANT IMMEDIATELY.		18.3. PROVIDE THE FOLLOWING UNLESS DIRECTED OTHERWISE BY THE ARCHITECT:		
10. OCCUPANCY		18.3.1.1. SAMPLE AREAS (MOCK-UPS) OF TYPICAL LIMESTONE RESTORATION INCLUDING, LIMESTONE REPLACEMENT,		
10.1. THE OWNER SHALL OCCUPY THE BUILDING DURING DEMOLITION AND CONST REMAIN OPERATIONAL.	RUCTION AND THE FACILITY SHALL	LIMESTONE REPAIRS, LIMESTONE REPOINTING, AND LIMESTONE CLEANING AS REQUIRED, AS SHOWN ON THE DRAWINGS, AND PER THIS GUIDELINE SPECIFICATION SHALL BE INSTALLED AS DIRECTED BY THE		
10.2. COORDINATE ALL WORK IN ADVANCE WITH THE OWNER, THE OWNER'S ON SI	TE PERSONNEL AND THE ARCHITECT.	ARCHITECT USING MATERIALS AND METHODS SPECIFIED. THE MOCK-UPS SHALL BE MADE ACCESSIBLE FOR VIEWING BY THE ARCHITECT AND THE OWNER. NOTE: THE SECTION OF THE FAÇADE AT THE NORTHWEST CORNER OF THE SUBJECT BUILDING HAS ALREADY BEEN RESTORED AND CLEANED AND SHALL SERVE AS		
11. DUST CONTROL		THE STANDARD FOR THE NEW FINISHED LIMESTONE RESTORATION WORK AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. NO OTHER WORK SHALL PROCEED UNTIL MOCK-UPS HAVE BEEN INSPECTED AND		
11.1. THE FOLLOWING MINIMUM REQUIREMENTS WILL BE ENFORCED:				
11.1.1. IT IS IMPERATIVE THAT CONSTRUCTION RELATED DUST BE KEPT TO A MI LIMESTONE, MASONRY, AND STRUCTURAL STEEL.	NIMUM DURING REMOVAL OF THE	18.3.1.2. FURNISH SAMPLE REPLACEMENT LIMESTONE FOR APPROVAL AS DEEMED NECESSARY BY THE ARCHITECT SHOWING THE PROPOSED SIZE, PROFILE, GRADE, COLOR AND FINISH.		
PART 2: PRODUCTS		18.3.1.3. PROVIDE WRITTEN VERIFICATION FROM THE LIMESTONE PROVIDER THAT THEY CAN SUPPLY THE PROJECT WITH NEW REPLACEMENT LIMESTONE AS SPECIFIED HEREIN.		
12. NOT USED.		18.3.2. PROVIDE SUBMITTAL INFORMATION AND SHOP DRAWINGS (AS APPLICABLE) FOR THE FOLLOWING ITEMS AS SPECIFIED IN PART 2 - PRODUCTS:		
13. LIMESTONE, MASONRY, STRUCTURAL STEEL, AND ASSOCIATED DEMOLITION		18.3.2.1. SHIMS: DATA SHEETS AND SAMPLES.		
13.1. REMOVE EXISTING CONSTRUCTION AS REQUIRED TO COMPLETE THE INSTAL	LATION OF ALL NEW WORK AS SHOWN	18.3.2.2. STRAP ANCHORS: DATA SHEETS AND SAMPLES.		
OR SPECIFIED. REFER TO THE DRAWINGS FOR THE EXTENT OF THE EXISTING REMOVED.		18.3.2.3. DOWELS (PINS): DATA SHEETS AND SAMPLES.		
13.2. DO NOT START DEMOLITION OF EXISTING MATERIALS WHEN INCLEMENT WEA	ATHER IS EXPECTED.	18.3.2.4. HANGING LIMESTONE ANCHORS: DATA SHEETS AND SAMPLES.		
13.3. REFER TO THIS SECTION FOR REQUIREMENTS RELATING TO PROTECTION OF	EXISTING STRUCTURE AND PROPERTY.	18.3.2.5. BACK-UP CLAY MASONRY: DATA SHEETS AND SAMPLES.		
13.4. IF DURING THE COURSE OF THE DEMOLITION WORK PORTIONS OF THE EXIST WEATHER, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CLOSE SUC WEATHERTIGHT MANNER AT THE END OF EACH WORKDAY.		18.3.2.6. PRE-BLENDED MORTAR: DATA SHEETS.18.3.2.7. STONE CLIP ANGLE: DATA SHEETS AND SAMPLES.		
14. DISPOSAL OF MATERIALS		18.3.2.8. MASONRY ANCHOR: DATA SHEETS AND SAMPLES.		
14.1. THE CONTRACTOR SHALL REMOVE ALL DEMOLITION MATERIAL (THAT IS NOT	SCHEDULED FOR REUSE) FROM THE	18.3.2.9. WEEPS: DATA SHEETS AND SAMPLES.		
OWNER'S SITE.		18.3.2.10. LIMESTONE RESTORATION MORTAR: DATA SHEETS AND FIELD SAMPLE.		
14.1.1. NO PROLONGED ACCUMULATION OF DEBRIS WILL BE ALLOWED. DEBRIS ACCUMULATES.	SHALL BE REMOVED AS IT	18.3.2.11. LIMESTONE CLEANING DETERGENT: DATA SHEETS, WRITTEN DESCRIPTION OF PROPOSED CLEANING PROCEDURE AND FIELD SAMPLE.		
14.1.2. SALE OF REMOVED ITEMS ON THE SITE WILL NOT BE ALLOWED.		19. PRODUCT DELIVERY, STORAGE AND HANDLING		
14.1.3. DEBRIS SHALL BE TRANSPORTED ON COVERED DUMPSTERS OR TRUCKS		19.1. DELIVER ALL MATERIALS IN THEIR ORIGINAL UNOPENED PACKAGES AND/OR CONTAINERS WITH ALL MARKINGS		
14.1.4. THE SITE IS TO BE BROOMED CLEAN AT THE END OF EACH WORKING DAY	Υ.	INTACT. 19.2. ALL MATERIALS MUST BE STORED IN A DRY PLACE OR OTHERWISE PROTECTED FROM WATER OR EXTREME		
LIMESTONE RESTORATION		HUMIDITY.		
PART 1 - GENERAL		19.3. STACK MATERIALS ON PALLETS AT LEAST 4 INCHES ABOVE THE GROUND AND COVER WITH A BREATHABLE COVERING, SUCH AS CANVAS.		
15. WORK INCLUDED		19.4. STORE ALL MATERIALS IN THE MANNER AND TEMPERATURE RANGE RECOMMENDED BY THE MANUFACTURER.		
15.1. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL FURNISH ALL MAT APPARATUS, TRANSPORTATION, LABOR AND SUPERVISION REQUIRED TO FU		19.5. DO NOT STORE OR TRANSPORT MATERIALS ON THE ROOF IN A MANNER THAT MAY EXCEED THE LIVE LOAD CAPACITY (30 PSF) OF THE ROOF DECK SYSTEM AND/OR THE BUILDING STRUCTURAL SYSTEM. THE ARCHITECT, DURING ROUTINE INSPECTIONS, MAY MAKE RECOMMENDATIONS AS TO LOADING.		
AS SHOWN ON THE DRAWINGS. 16. QUALITY ASSURANCE		19.6. DO NOT TRANSPORT OR STORE MATERIALS ON THE EXISTING ROOF SURFACE WITHOUT ADEQUATE PROTECTION. THE ARCHITECT, DURING ROUTINE INSPECTIONS, MAY MAKE RECOMMENDATIONS AS TO EXISTING ROOF		
16.1. THERE SHALL BE NO DEVIATION MADE FROM THIS GUIDELINE SPECIFICATION BY THE ARCHITECT.	N WITHOUT PRIOR WRITTEN APPROVAL	PROTECTION.		
16.2. ALL PROPOSED SHORING PLANS AND DETAILS MUST BE APPROVED BY THE A	ARCHITECT AND IN PLACE BEFORE ANY	20. GUARANTEES, WARRANTIES, CERTIFICATES		
LOAD BEARING LIMESTONE AND BRICK BACK-UP DEMOLITION WORK CAN PROBE DESIGNED BY THE CONTRACTOR WHO SHALL BE ULTIMATELY RESPONSIB	OCEED. ALL SHORING SYSTEMS SHALL	20.1. THE CONTRACTOR AND THE MATERIAL MANUFACTURER'S SHALL GUARANTY BOTH MATERIAL AND/OR WORKMANSHIP, AND WARRANT THE PERFORMANCE OF ALL ITEMS SPECIFIED IN THIS SECTION FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION AS DETERMINED BY THE ARCHITECT.		
16.3. ALL LIMESTONE RESTORATION WORK SHALL BE PERFORMED BY SKILLED JOU NOT LIMITED TO, STONEMASONS, MASONS, TUCKPOINTERS, CONCRETE INST LABORERS WHO ARE CONSIDERED SPECIALISTS IN THE FIELD OF THE WORK	ALLERS / FINISHERS, ROOFERS, AND	PART 2 - PRODUCTS		
16.4. JOURNEYMEN TRADESMEN SHALL HAVE A MINIMUM OF FIVE (5) YEARS EXPER WORK.	RIENCE IN THE SPECIFIED TYPE OF	21. ACCEPTABLE MANUFACTURERS 21.1. PROVIDE PRODUCTS BY MANUFACTURER'S SPECIFIED HEREIN, WHICH MEET OR EXCEED STANDARDS AS SET FORTH		
16.5. DURING THE WORKDAY SHOULD THE WEATHER CONDITIONS APPEAR TO BE		IN THIS SECTION. NO PRODUCTS SPECIFIED OR APPROVED SHALL CONTAIN ASBESTOS. 21.2. ALL MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE ON THE DRAWINGS AND GUIDELINE SPECIFICATIONS.		
CONTRACTOR SHALL TAKE PREVENTATIVE MEASURES TO PROTECT ANY UNF PERFORMED THAT DAY AND TO ALLOW ADEQUATE TIME FOR THE WORK ARE WATERTIGHT CONDITION TO AVOID EXPOSURE TO THE BUILDING INTERIOR.		21.2. ALL MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE ON THE DRAWINGS AND GUIDELINE SPECIFICATIONS. 21.3. NO MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS SPECIFIED AS "OR APPROVED EQUAL," AND APPROVED IN		

16.6. REPAIR ANY WORK DAMAGED BY FAILURE TO PROVIDE PROPER AND ADEQUATE PROTECTION, TO ITS ORIGINAL STATE TO THE SATISFACTION OF THE OWNER, OR REMOVE AND REPLACE THE DEFECTIVE WORK WITH NEW AT THE CONTRACTOR'S EXPENSE.

16.7. USE OF AIR ENTRAINING MIXTURES, CHLORIDES, OR NITRATES IS NOT TO BE MIXED IN WITH THE MORTAR. ANY USE OF THESE MATERIALS IN THE MORTAR WILL BE SUFFICIENT CAUSE TO REQUIRE REMOVAL AND REPLACEMENT OF

SAME

.1.	DELIVER ALL MATERIALS IN THEIR ORIGINAL UNOPENED PACKAGES AND/OR CONTAINERS WITH ALL MARKINGS
	INTACT.

- ADVANCE BY THE ARCHITECT.

22. MATERIALS

22.1. REPLACEMENT LIMESTONE: ALL REPLACEMENT LIMESTONE SHALL BE "BEDFORD" INDIANA OOLITIC LIMESTONE AS QUARRIED IN LAWRENCE COUNTY, INDIANA, REPLACEMENT LIMESTONE SHALL MATCH EXISTING IN SIZE, PROFILE,



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GRADE, COLOR, AND FINISH.

- 22.2. SHIMS: 2 INCH BY 4 INCH BY 1/16 INCH, 1/8 INCH, AND 1/4 INCH, PLASTIC SHIMS AS MANUFACTURED BY RACKNOW POLYMERS AND DISTRIBUTED BY LANCE CONSTRUCTION SUPPLIES, INC., CHICAGO, ILLINOIS, OR APPROVED EQUAL.
- 22.3. STRAP ANCHORS: "NO. 141 U-TYPE STONE ANCHOR," 8 INCHES LONG BY 1-1/4 INCH WIDE WITH A 7/8 INCH BEND (INTERIOR DIMENSION). 16 GAUGE OR 0.625 INCH (1/16 INCH) THICKNESS, STAINLESS STEEL CONFORMING TO ASTM A 167, AISI TYPE 304, AS MANUFACTURED BY HECKMANN BUILDING PRODUCTS, INC., MELROSE PARK, ILLINOIS.
- 22.4. DOWELS (PINS): 3/8 INCH DIAMETER BY 4 INCH LONG, SMOOTH FINISH, STAINLESS STEEL, CONFORMING TO ASTM 267, AISI TYPE 304 OR 316.
- 22.5. HANGING LIMESTONE ANCHORS: "LIEBIG SUPERPLUS 14" STAINLESS SHEET, SELF UNDERCUTTING, TORQUE CONTROLLED, STONE ANCHOR, MINIMUM 1-1/2 INCH EMBEDMENT, AS MANUFACTURED BY LIEBIG INTERNATIONAL, INC., OR APPROVED EQUAL.
- 22.6. CLAY MASONRY (INTERIOR WYTHES ONLY): STANDARD (3-5/8 INCH BY 2-1/4 INCH BY 8 INCH) SEVERE WEATHERING (SW), RED EXTRUDED BRICK AS MANUFACTURED BY BELDEN BRICK COMPANY, CANTON, OHIO, OR APPROVED EQUAL.
- 22.7. PRE-BLENDED MORTAR: "SPEC MIX PORTLAND LIME SAND & COLOR TYPE N," DRY PREBLENDED MORTAR MIX CONTAINING PORTLAND CEMENT, HYDRATED LIME, DRIED MASONRY SAND, AND COLOR PIGMENT FORMULATED, CONFORMING TO ASTM C 270, AS MANUFACTURED BY SPEC MIX, MENDOTA HEIGHTS, MINNESOTA, OR APPROVED EQUAL.PORTLAND CEMENT (AS REQUIRED): TYPE "I" CONFORMING TO ASTM C150 STANDARD.
- 22.8. LIME (AS REQUIRED): PRESSURE HYDRATED, NON-AIR ENTRAINING, TYPE "N" CONFORMING TO ASTM C207 STANDARD.
- 22.9. SAND (AS REQUIRED): CLEAN, SHARP, FREE FROM LOAM, SILT, VEGETABLE MATTER, SALTS, AND OTHER INJURIOUS SUBSTANCES, CONFORMING TO ASTM C144 STANDARD.
- 22.10. WATER: POTABLE, FRESH, CLEAN, CLEAR AND FREE FROM INJURIOUS AMOUNTS OF SEWAGE, OIL, ACID, ALKALI, SALTS, ORGANIC MATTER OR OTHER DETRIMENTAL SUBSTANCES.
- 22.11. COLOR ADMIXTURE (IF REQUIRED FOR MATCHING): NON AIR-ENTRAINING PURE MINERAL PIGMENT WHICH IS LIGHT FAST, LIME PROOF, AND WEATHERPROOF, SUCH AS DCS MORTAR COLORS BY DCS COLOR AND SUPPLY COMPANY OF MILWAUKEE, WISCONSIN OR APPROVED EQUAL.
- 22.12. STONE CLIP ANGLE: TYPE 304 OR 316 STAINLESS STEEL STONE CLIP ANGLE. LENGTH (LONG LEG) VARIES FIELD MEASURE. 2" HIGH SHORT LEG. 1/8" THICK. 7/16" DIAMETER SLOTTED HOLE AT SHORT LEG AS SHOWN ON THE DRAWINGS.
- 22.13. MASONRY ANCHOR: "DUR-O-WAL NO. DA5410 / DA5610", 7/16" OUTSIDE DIAMETER BY 2" LONG, TYPE 304 STAINLESS STEEL MASONRY ANCHOR AS MANUFACTURED BY DAYTON SUPERIOR, DAYTON, OHIO, OR APPROVED EQUAL.
- 22.14. WEEPS: "# 341 SERIES ROUND PLASTIC WEEP HOLES," MEDIUM DENSITY POLYETHYLENE, 3/8" OUTSIDE DIAMETER (O.D.) BY 4" LONG WITH STAINLESS STEEL SCREEN INSERT AND DOUBLE COTTON WICK, AS MANUFACTURED BY H & B ILLINOIS, CHICAGO, ILLINOIS.
- 22.15. LIMESTONE RESTORATION MORTAR: "MIMIC" TROWEL APPLIED, COLOR MATCHED, SINGLE COMPONENT LIMESTONE REPAIR MORTAR AS MANUFACTURED BY CONPROCO CORPORATION, OR APPROVED EQUAL.
- 22.16. LIMESTONE CLEANING DETERGENT (AS REQUIRED): "STONE SOAP ULTRA" WATER-BASED CLEANER, PH NEUTRAL, CONTAINING NO ABRASIVES, ACIDS, ALKALIS, SALTS, PHOSPHATES, D-LIMINENE, ARTIFICIAL COLORS, FRAGRANCES, OR PRESERVATIVES, AS MANUFACTURED BY STONE TECHNOLOGIES CORP, OR APPROVED EQUAL.
- 22.17. THROUGH WALL FLASHING MEMBRANE AND CAP FLASHING MEMBRANE (AT COPING STONES): "PERM-A-BARRIER WALL FLASHING," 40-MIL, SELF-ADHERING MEMBRANE WALL FLASHING AS MANUFACTURED BY W.R. GRACE & CO., COLUMBIA, MARYLAND, OR APPROVED EQUAL.
- 22.18. THROUGH-WALL FLASHING DRIP EDGE: "PREFORMED STAINLESS STEEL DRIP EDGE." 28 GAUGE (15 MILS THICK), 1-5/8" WIDE WITH A 3/8" BEND AT ONE END MADE OF TYPE 304 GRADE, DULL FINISH STAINLESS STEEL IN CONFORMANCE WITH ASTM A 167, AS MANUFACTURED BY POLYGUARD PRODUCTS INC, ENNIS, TEXAS, OR APPROVED EQUAL.
- 22.19. OTHER ITEMS: ALL OTHER MATERIALS NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF THE WORK IN THIS SECTION, SHALL BE SELECTED BY THE CONTRACTOR SUBJECT TO APPROVAL BY THE ARCHITECT.

PART 3 - EXECUTION

23. EXAMINATION

- 23.1. THE CONTRACTOR SHALL HAVE THE SOLE RESPONSIBILITY FOR THE ACCURACY OF ALL MEASUREMENTS AND FOR THE ESTIMATE OF MATERIAL QUANTITIES REQUIRED AND NECESSARY TO SATISFY THE REQUIREMENTS OF THESE SPECIFICATIONS.
- 24. SEQUENCE/SCHEDULING
- 24.1. DURING DEMOLITION, AS WELL AS REHABILITATION OPERATIONS, RESTORE ALL AREAS TO A WEATHERTIGHT CONDITION EACH DAY AND/OR BEFORE INCLEMENT WEATHER COMMENCES.
- 24.2. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL ALL UNSATISFACTORY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK HAVE BEEN CORRECTED.

25. MORTAR MIXES

- 25.1. ALL EQUIPMENT FOR MIXING, TRANSPORTING AND APPLYING MORTAR SHALL BE CLEAN AND FREE FROM HARDENED MORTAR, DIRT, ICE, OR OTHER FOREIGN MATTER.
- 25.2. FOLLOW PRINTED MANUFACTURERS INSTRUCTIONS FOR MIXING PREBLENDED MORTAR.
- 25.3. MEASURE MATERIALS FOR MORTARS BY VOLUME, IN A MANNER WHEREBY PROPORTIONS CAN BE CONTROLLED WITHIN FIVE PERCENT. THE PROPORTIONS LISTED HEREINAFTER FOR CONVENTIONAL MORTARS ARE PORTLAND CEMENT, LIME, AND DAMP LOOSE SAND, RESPECTIVELY BY VOLUME. THE PROPORTIONS ARE LISTED ONLY AS A SAMPLE FOR THE REQUIRED TYPE MORTAR AND SHALL BE MODIFIED AS NECESSARY, WITHIN TOLERANCES, TO SUIT THE PARTICULAR MASONRY SAND BEING USED.
- 25.4. MIX CEMENTITIOUS MATERIALS, POWDERED COLORING ADMIXTURES AND MASONRY SAND DRY. ADD WATER AND BRING TO PROPER CONSISTENCY FOR USE. MIX MATERIALS UNTIL EVENLY DISTRIBUTED THROUGHOUT THE BATCH AND THE MIXTURE IS UNIFORM IN COLOR AND CONSISTENCY. NO ANTIFREEZE INGREDIENT OR SIMILAR SUCH CONTAMINANT WILL BE TOLERATED.
- 25.5. REPOINTING AND BRICK REPLACEMENT MORTAR SHALL BE ASTM C270, TYPE "N" LIME-CEMENT MORTAR (1:1:6). MORTAR SHALL BE MIXED AND LEFT UNTOUCHED FOR ONE TO TWO HOURS. ADDITIONAL WATER SHALL THEN BE ADDED AND THE MORTAR REMIXED. MORTAR SHALL BE RE-TEMPERED AS NECESSARY TO MAINTAIN ITS WORKABILITY, BUT USED BEFORE IT IS THREE (3) HOURS OLD OR OTHERWISE DISCARDED.

26. EXISTING LIMESTONE REMOVAL

- 26.1. CAREFULLY REMOVE ALL EXISTING LIMESTONE THAT IS SHOWN TO BE REMOVED AND REPLACED AS SHOWN ON THE DRAWINGS.
- 26.2. EXTREME CAUTION SHALL BE IMPLEMENTED WHEN GRINDING AND/OR CUTTING OUT THE EXISTING MORTAR JOINTS AS TO NOT DAMAGE THE EXISTING LIMESTONE.
- 26.3. EXISTING LIMESTONE SHALL BE REMOVED MANUALLY, BY MOBILE HOIST, OR BY CRANE, AS JOB CONDITIONS REQUIRE, AND AS DEEMED NECESSARY BY THE CONTRACTOR. NOTE: IT IS NOT RECOMMENDED THAT LEWIS PINS BE USED FOR STONES LESS THAN 3-1/2 INCHES THICK.
- 26.4. AS DETERMINED BY THE ARCHITECT, EXISTING LIMESTONE SLATED FOR REMOVAL AND REPLACEMENT THAT IS DAMAGED DUE TO MISHANDLING BY THE CONTRACTOR SHALL BE REPLACED WITH NEW OR REPAIRED TO ITS ORIGINAL STATE AT THE CONTRACTOR'S EXPENSE.
- 26.5. REMOVED LIMESTONE SHALL BE STORED IN PREDETERMINED "GRAVEYARD" LOCATIONS AS DIRECTED BY THE ARCHITECT.

27. BRICK BACK-UP DEMOLITION

27.1. REMOVE ALL EXISTING BRICK BACK-UP AS SHOWN ON THE DRAWINGS AND AS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OF THE WORK IN THIS SECTION.

28. LIMESTONE AND BRICK BACK-UP REPLACEMENT

- 28.1. INSTALL LIMESTONE IN STRICT ACCORDANCE WITH INDIANA LIMESTONE INSTITUTE OF AMERICA (ILI) SPECIFICATIONS AND RECOMMENDATIONS.
- 28.2. INSTALL BRICK BACK-UP IN STRICT ACCORDANCE WITH BRICK INSTITUTE OF AMERICA (BIA), AND MASONRY ADVISORY COUNCIL (MAC) SPECIFICATIONS AND RECOMMENDATIONS.
- 28.3. WHEN INSTALLING LIMESTONE, HOLD THE INSTALLATION MORTAR BACK 3/4 INCHES AS SHOWN ON THE DRAWINGS.
- 28.4. DURING ERECTION, COVER TOP OF WALL WITH STRONG WATERPROOF PROTECTIVE COVERINGS AT END OF EACH DAY OR SHUTDOWN.
- 28.5. COVER PARTIALLY COMPLETED WALLS WITH WATERPROOF PROTECTIVE COVERING WHEN WORK IS NOT IN PROGRESS.
- 28.6. EXTEND WATERPROOF PROTECTIVE COVERING A MINIMUM OF 24 INCHES DOWN BOTH SIDES.
- 28.7. HOLD WATERPROOF PROTECTIVE COVERING SECURELY IN PLACE.
- 28.8. DO NOT APPLY UNIFORM FLOOR OR ROOF LOADING FOR AT LEAST 12 HOURS AFTER INSTALLING LOAD SUPPORTING LIMESTONE AND BRICK BACK-UP.
- 28.9. DO NOT APPLY CONCENTRATED LOADS FOR AT LEAST THREE (3) DAYS AFTER INSTALLING LOAD SUPPORTING LIMESTONE AND BRICK BACK-UP.
- 28.10. PREVENT MORTAR FROM STAINING THE FACE OF THE LIMESTONE.
- 28.11. IMMEDIATELY REMOVE MORTAR IN CONTACT WITH THE FACE OF THE LIMESTONE.
- 28.12. PROTECT ALL WINDOWS, DOORS, SILLS, LEDGES, AND PROJECTIONS FROM MORTAR DROPPINGS, STAINING, OR DAMAGE.
- 28.13. IF ICE OR SNOW HAS FORMED ON LIMESTONE OR BRICK BACK-UP BED, REMOVE BY CAREFULLY APPLYING HEAT UNTIL THE TOP SURFACE IS DRY TO THE TOUCH.
- 28.14. REMOVE ALL LIMESTONE AND BRICK BACK-UP THAT WAS DAMAGED DUE TO FREEZING.
- 28.15. DO NOT INSTALL LIMESTONE OR BRICK BACK-UP UNITS WHEN THE MEAN AIR TEMPERATURE IS BELOW 20°F.
- 28.16. WHEN LIMESTONE AND BRICK BACK-UP SUCTION EXCEEDS THE INITIAL RATE OF ABSORPTION, SPRINKLE WITH HEATED WATER AS FOLLOWS. WHEN UNITS ARE 32°F, HEAT WATER ABOVE 70°F. WHEN UNITS ARE BELOW 32°F, HEAT WATER ABOVE 130°F.
- 28.17. USE ONLY DRY LIMESTONE AND BRICK BACK-UP UNITS.
- 28.18. DO NOT USE WET OR FROZEN LIMESTONE AND BRICK BACK-UP UNITS.
- 28.19. IF THE AIR TEMPERATURE RANGE IS 20°F TO 40°F, HEAT MORTAR TO A TEMPERATURE BETWEEN 40°F AND 120°F.
- 28.20. MAINTAIN TEMPERATURES OF MORTAR ON BOARD ABOVE FREEZING AT ALL TIMES.
- 28.21. USE SALAMANDER-TYPE HEATERS OR OTHER HEAT SOURCES ON BOTH SIDES OF WALLS UNDER CONSTRUCTION WHEN TEMPERATURES ARE BELOW 32°F.
- 28.22. USE WINDBREAKS WHEN WINDS ARE IN EXCESS OF 15 MPH.
- 28.23. WHEN THE MEAN AIR TEMPERATURE RANGE IS 32°F TO 40°F, PROTECT LIMESTONE AND/OR BRICK BACK-UP FROM RAIN OR SNOW FOR 24 HOURS BY COVERING WITH A STRONG WATERPROOF PROTECTIVE MEMBRANE.
- 28.24. WHEN THE MEAN AIR TEMPERATURE RANGE IS 20°F TO 32°F, COMPLETELY COVER LIMESTONE AND/OR BRICK BACK-UP WITH SUPPLEMENTARY HEAT AND/OR INSULATING BLANKETS AS REQUIRED TO MAINTAIN THE NEW WORK AT OR ABOVE 32°F.
- 28.25. INSTALL FINISH MORTAR AT ALL LIMESTONE UNITS AS SHOWN ON DRAWINGS AND AS FOLLOWS. WITH JOINT DAMP, COMPLETELY FILL WITH MORTAR PLACED IN THREE (3) LAYERS (LIFTS) FIRMLY PRESSED IN PLACE. THE JOINT SHALL THEN BE COMPRESSED AND TOOLED WITH A SMOOTH ROUNDED IRON OF SELECTED WIDTH TO PRODUCE A SMOOTH, DENSE SURFACE, VERY SLIGHTLY CONCAVE, TIGHTLY PRESSED AGAINST THE EDGES OF THE LIMESTONE. ALL NEW LIMESTONE MORTAR JOINTS SHALL BE UNIFORM IN APPEARANCE.
- 28.26. INSTALL NEW FINISH MORTAR PER ITEM 4) THROUGH 5) AS DESCRIBED BELOW IN "D. REPOINTING:"
- 28.27. REPAIR EXISTING LIMESTONE AT LOCATIONS INDICATED ON THE DRAWINGS. INSTALL NEW MATERIALS PER THE DETAIL(S) SHOWN ON THE DRAWINGS AND IN STRICT CONFORMANCE WITH THE LIMESTONE RESTORATION MORTAR MANUFACTURER'S SPECIFICATIONS.
- 29. REPOINTING
- 29.1. CAREFULLY REMOVE ALL EXISTING MORTAR TO A MINIMUM DEPTH OF 3/4 INCHES. NOTE: THE BUILDING IS A HISTORIC STRUCTURE. EXTREME CARE MUST BE TAKEN WHEN WORKING ADJACENT TO THE EXISTING LIMESTONE AS NOT TO DAMAGE SAME. DAMAGE TO THE EXISTING LIMESTONE UNITS CAUSED DURING REPOINTING PROCEDURES SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 29.2. WHEN EXISTING MORTAR IS BROKEN OR LOOSE BEYOND A DEPTH OF 3/4 INCHES, REMOVE TO A DEPTH WHERE FIRM SOLID MORTAR IS ENCOUNTERED. ALL JOINTS MUST BE CLEAN OF UNSOUND MORTAR MATERIAL IN A SQUARE MANNER THE FULL DEPTH OF THE CUT. FURROW SHAPED JOINTS WILL NOT BE ACCEPTABLE.
- 29.3. THE CUTTING OUT OF JOINTS SHALL BE DONE WITH SUITABLE TOOLS, EITHER HAND TOOLS OR MECHANICAL EQUIPMENT, IN SUCH A MANNER AS WILL NOT LOOSEN ADJACENT JOINTS OR INJURE THE EDGES OR CORNERS OF THE LIMESTONE UNITS. WHERE THE MORTAR IS TIGHTLY BONDED AT ONE SIDE OF THE JOINT, AND IF THE CONTOUR PERMITS, THE CUTTING SHALL BE DONE WITH PORTABLE GRINDERS WITH ABRASIVE WHEELS TO MINIMIZE SPALLING AT EDGES OF THE LIMESTONE UNITS.
- 29.4. AFTER THE JOINT HAS BEEN CUT OUT, ALL LOOSE MATERIAL SHALL BE REMOVED BY BRUSH, AIR JET, OR WATER STREAM. FOLLOWING THIS CLEANING THE JOINT SHALL BE THOROUGHLY MOISTENED. THE JOINT SHALL BE DAMP BUT WITHOUT FREE WATER ON THE SURFACE.
- 29.5. WITH JOINT DAMP, COMPLETELY FILL WITH MORTAR PLACED IN THREE (3) LAYERS (LIFTS) FIRMLY PRESSED INTO PLACE. DO NOT PLACE NEXT LAYER OF MORTAR UNTIL PREVIOUS LAYER IS "THUMB HARD."
- 29.6. FOLLOWING AT THE PROPER INTERVAL, THE JOINT SHALL BE COMPRESSED AND SMOOTHED WITH A ROUNDED IRON OF APPROPRIATE WIDTH TO PRODUCE A CONSISTENT, DENSE SURFACE, VERY SLIGHTLY CONCAVE, OR AT A SIMILAR DEPTH AS TYPICALLY EXISTING, TIGHTLY PRESSED AGAINST THE EDGES OF THE LIMESTONE UNITS.

SEALANTS

PART 1: GENERAL

30. SUMMARY OF WORK

- 30.1. THIS SECTION INCLUDES ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PERFORM THE FOLLOWING WORK:
- 30.1.1. REMOVAL OF ALL EXISTING CAULKING/SEALANT TO BE REPLACED.
- 30.1.2. PREPARATION OF ALL SURFACES TO RECEIVE NEW SEALANT WORK.
- 30.1.3. APPLICATION OF THE JOINT WATERPROOFING SEALANT.
- 30.1.4. CLEAN UP
- 31. QUALITY CONTROL

MANUFACTURE OF WATERPROOF COATINGS AND SEALANTS.

32. SUBMITTALS

- 32.1. MANUFACTURER'S LITERATURE: SUBMIT THREE (3) COMPLETE SETS OF MANUFACTURER'S LITERATURE AND TECHNICAL DATA FOR THE SEALANT SYSTEM.
- 32.2. CONTRACTOR'S CERTIFICATE: SUBMIT COPIES OF "LICENSED APPLICATOR'S CERTIFICATE" ISSUED BY THE MANUFACTURER.
- 32.3. A TOTAL OF THREE (3) COPIES OF EACH SUBMITTAL IS REQUIRED, UNLESS NOTED OTHERWISE.

33. MATERIAL HANDLING

33.1. DELIVERY AND STORAGE OF MATERIALS

- 33.1.1. DELIVER ALL MATERIALS IN THEIR ORIGINAL UNOPENED CONTAINERS WITH ALL MARKINGS INTACT.
- 33.1.2. ALL MATERIALS MUST BE STORED IN A DRY PLACE OR OTHERWISE PROTECTED FROM WATER OR EXTREME
- 33.1.3. STACK MATERIAL ON PALLETS AT LEAST 4" ABOVE THE GROUND AND COVER WITH A BREATHABLE COVERING, SUCH AS CANVAS.
- 33.1.4. STORE SEALANTS IN THE MANNER AND TEMPERATURE RANGE RECOMMENDED BY THE MANUFACTURER.
- 33.2. HANDLING MATERIALS

HUMIDITY.

- 33.2.1. DO NOT STORE OR TRANSPORT MATERIALS ON THE ROOF IN A MANNER THAT MAY EXCEED THE LIVE LOAD CAPACITY OF THE DECK SYSTEM OR THE STRUCTURE. THE ARCHITECT, DURING ROUTINE INSPECTIONS, MAY MAKE RECOMMENDATIONS AS TO LOADING.
- 33.2.2. DO NOT TRANSPORT MATERIALS OVER OR STORE MATERIALS ON A FINISHED SECTION WITHOUT PRIOR APPROVAL OF ARCHITECT.

34. WARRANTIES

34.1. THE SEALANT MANUFACTURER AND THE CONTRACTOR SHALL WARRANT THE PERFORMANCE OF THE SEALANT SYSTEM FOR A PERIOD OF FIVE (5) YEARS STARTING FROM THE DATE OF ACCEPTANCE BY THE ARCHITECT. SUCH WARRANTY SHALL INCLUDE MATERIAL AS WELL AS LABOR FOR APPLICATION. DAMAGE AND/OR FAILURE DUE TO ACTS OF GOD AND VANDALISM, MAY BE EXCLUDED FROM SUCH WARRANTY.

PART 2: PRODUCTS

35. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING MATERIALS, AS REQUIRED.

36. MANUFACTURERS

- 36.1. PROVIDE MATERIALS FROM THE MANUFACTURERS LISTED IN THIS SECTION.
- 36.2. MATERIALS SHALL MEET ALL SPECIFIED STANDARDS.
- 36.3. ALL MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE.
- 36.4. NEW MATERIALS SHALL NOT CONTAIN ASBESTOS.

37. MATERIALS

- 37.1. SEALANT: A HYBRID MULTI-COMPONENT CHEMICALLY CURING POLYURETHANE JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM C920 TYPE M, GRADE P, CLASS 25 STANDARDS. SEALANT MATERIAL SHALL BE POLYURETHANE ELASTOMER BASED, MEETING OR EXCEEDING MINIMUM PHYSICAL PROPERTIES AS LISTED IN SECTION 2.3, AND CAPABLE OF PRODUCING A SEAMLESS WATERPROOF JOINT SEAL. COLOR SHALL BE CHOSEN TO MOST CLOSELY MATCH THAT OF THE ADJACENT LIMESTONE/MASONRY, OR, NON-STAINING AND NO-TACK, SOFT TYPE WITH HIGH ELONGATION PROPERTIES AND SHALL BE SO DESIGNATED ON THE LABEL BY THE MANUFACTURER SUCH AS "SIKAFLEX 1A" BY SIKA CORP., "SIKAFLEX 2C NS/SL" BY SIKA CORP., "SONOLASTIC NP1" BY SONNEBORN BUILDING PRODUCTS, "DYNATROL II" BY PECORA CORP., OR "DIMONIC" BY TREMCO, INC. FOLLOW ALL MANUFACTURERS' PREVIOUSLY SUBMITTED RECOMMENDATIONS FOR TYPE REQUIRED AT JOINTS. USE NON-SAG AT ALL JOINTS. ALL SEALANTS MUST TAKE LATEX AND OIL BASE PAINT.
- 37.2. JOINT CLEANING COMPOUND: AS RECOMMENDED BY THE SEALANT MANUFACTURER FOR THE JOINT SURFACES TO BE CLEANED.
- 37.3. JOINT PRIMER/SEALER: AS RECOMMENDED BY THE SEALANT MANUFACTURER FOR THE JOINT SURFACE TO BE PRIMED OR SEALED.
- 37.4. BOND BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE AS RECOMMENDED BY THE SEALANT MANUFACTURER TO BE APPLIED TO SEALANT-CONTACT SURFACES WHERE BOND TO THE SUBSTRATE OR JOINT FILLER MUST BE AVOIDED FOR PROPER PERFORMANCE OF SEALANT. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.
- 37.5. SEALANT BACKER ROD: COMPRESSIBLE ROD STOCK POLYETHYLENE FOAM, POLYETHYLENE JACKETED AND POLYURETHANE FOAM OR OTHER FLEXIBLE, PERMANENT, DURABLE NON-ABSORPTIVE MATERIAL AS RECOMMENDED FOR THE COMPATIBILITY WITH SEALANT BY THE SEALANT MANUFACTURER; WHICH WILL CONTROL THE JOINT DEPTH FOR SEALANT PLACEMENT, BREAK BOND OF SEALANT AT BOTTOM OF JOINT, FORM OPTIMUM SHAPE OF SEALANT BEAD ON BACK SIDE, AND PROVIDE A HIGHLY COMPRESSIBLE BACKER TO MINIMIZE THE POSSIBILITY OF SEALANT EXTRUSION WHEN THE JOINT IS COMPRESSED. BACKER ROD SHALL BE AT LEAST 1/2" LARGER THAN THE WIDTH OF THE JOINT.
- 37.6. PITCH PAN SEALANT: TWO-PART, SELF-LEVELING, TYPE 1, LP LIQUID POLYSULFIDE POLYMER SEALANT SUCH AS "LP POLYSULFIDE BASE SEALANT" BY MORTON THIOKOL, INC. OR APPROVED EQUAL.
- 37.7. PITCH PAN GROUT: NON-SHRINK EPOXY GROUT CONFORMING TO ASTM C827 SUCH AS "FIVE STAR EPOXY GROUT" BY U. S. GROUT CORPORATION OR APPROVED EQUAL.
- 37.8. POURABLE JOINT SEALANT: TWO-PART, SELF-LEVELING POURABLE POLYSULFIDE-BASED SEALING COMPOUND SUCH AS "DECK-O-SEAL" BY W.R. MEADOWS, OR APPROVED EQUAL.

PART 3: EXECUTION

38. EXAMINATION

38.1. THE CONTRACTOR SHALL HAVE THE SOLE RESPONSIBILITY FOR THE ACCURACY OF ALL MEASUREMENTS AND FOR THE ESTIMATE OF MATERIAL QUANTITIES REQUIRED AND NECESSARY TO SATISFY THE REQUIREMENTS OF THESE SPECIFICATIONS.

39. SEQUENCING/SCHEDULING

- 39.1. REMOVE ONLY AS MUCH SEALANT WORK AS CAN BE RESTORED TO A WEATHERTIGHT CONDITION EACH DAY AND BEFORE SHOWERS COMMENCE.
- 39.2. ALL SEALANT WORK SHALL BE COMPLETED EACH DAY ON THE SECTION BEING WORKED ON.
- 39.3. THE CONTRACTOR SHALL NOT PROCEED WITH THE SEALANT WORK UNTIL ALL UNSATISFACTORY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE SEALANT WORK HAVE BEEN CORRECTED.

40. SUBSTRATE PREPARATION

- 40.1. REMOVE ALL DEBRIS FROM WORKING SURFACES. REMOVE ALL LOOSE MATERIALS.
- 40.2. THOROUGHLY CLEAN ALL SURFACE AREAS INVOLVED TO REMOVE DIRT, OILS, GREASE, HEAVY LAITANCE, FOR RELEASE AGENT, CURING COMPOUND, AND OTHER CONTAMINANTS, WHICH WOULD INTERFERE WITH THE APPLICATION AND PERFORMANCE OF THE SEALANT, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 40.3. REMOVE ALL FOREIGN PROJECTIONS IN THE JOINT BY GRINDING OR OTHER SUITABLE METHODS.



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40.4. INSTALL THE SEALANT MATERIAL UNDER CONDITIONS WHERE RAIN IS NOT ANTICIPATED WITHIN EIGHT HOURS OF APPLICATION AND SUBSTRATE SURFACE TEMPERATURES ARE ABOVE 40°F AND BELOW 110°F. 41. SEALANT APPLICATION 41.1. ALL MATERIAL SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. 41.2. ALL SURFACES TO RECEIVE THE SEALANT SYSTEM SHALL BE AIR-DRIED A MINIMUM OF 24 HOURS IMMEDIATELY PRIOR TO PERFORMING WORK. 41.3. WHERE MANUFACTURER'S SPECIFICATIONS ARE MORE STRINGENT OR REQUIRE MORE MATERIAL THAN SPECIFIED HEREIN, FOLLOW THE MANUFACTURER'S SPECIFICATIONS. 41.4. CONCRETE PRIMER 41.4.1. APPLY THE CONCRETE PRIMER AT THE RATE OF 225 SQUARE FEET PER GALLON. EVENLY APPLY TWO CONSECUTIVE COATS TO THE JOINT INTERFACE TO PRODUCE A CONTINUOUS FILM. 41.4.2. ALLOW THE PRIMER TO DRY FOR 45 MINUTES OR UNTIL TACK-FREE. 41.4.3. DO NOT APPLY MORE PRIMER THAN CAN BE COATED OVER WITHIN 8 HOURS. 41.4.4. DO NOT APPLY PRIMER TO ADJACENT SURFACES NOT SCHEDULED FOR SEALANT TO PREVENT STAINING. 41.5. JOINT BACKING 41.5.1. JOINT BACKING SHALL BE USED TO CONTROL THE DEPTH OF JOINT TO THE RECOMMENDED DIMENSION. 41.5.2. SELECT A SIZE, TO ALLOW FOR 25% MINIMUM COMPRESSION OF THE BACKING WHEN INSERTED INTO THE JOINT. WHERE DEPTH OF JOINT WILL NOT PERMIT USE OF JOINT BACKING, A BOND-BREAKER TAPE MUST BE INSTALLED 41.5.3. TO PREVENT THREE-SIDED ADHESION. 41.6. SEALANT 41.6.1. MIX ACCORDING TO MANUFACTURER'S DETAILED INSTRUCTIONS. 41.6.2. MINIMUM MIXING TIME: 6 MINUTES. 41.6.3. APPLY WITH CONVENTIONAL SEALANT EQUIPMENT, FILLING JOINT COMPLETELY. 41.7. TOOLING 41.7.1. IMMEDIATELY AFTER APPLICATION, TOOLING SHALL BE EMPLOYED TO INSURE FIRM, FULL CONTACT WITH THE INNER FACES OF THE JOINT. 41.7.2. DRY TOOLING IS PREFERRED. TOOLING AGENTS CAN BE USED. 41.8. CLEANING

- 41.8.1. REMOVE IMMEDIATELY ALL EXCESS SEALANT ADJACENT TO THE JOINT WITH "XYLOL" OR "TOLUOL" AS WORK PROGRESSES.
- 41.8.2. AVOID STAINING OF ADJACENT AREAS.
- 41.8.3. AT THE CONCLUSION OF THE SEALANT WORK, REMOVE ALL TOOLS, SCAFFOLDING, EQUIPMENT, CONSTRUCTION MATERIALS AND CONSTRUCTION DEBRIS FROM THE SITE.

42. PROJECT CLOSEOUT PROCEDURES

42.1. MAKE SUBMITTALS THAT ARE REQUIRED BY GOVERNING OR OTHER AUTHORITIES.

42.1.1. PROVIDE COPIES TO ARCHITECT AND OWNER.

- 42.2. ACCOMPANY PROJECT COORDINATOR ON PRELIMINARY INSPECTION TO DETERMINE ITEMS TO BE LISTED FOR COMPLETION OR CORRECTION IN THE CONTRACTOR'S CORRECTION PUNCH LIST FOR CONTRACTOR'S NOTICE OF SUBSTANTIAL COMPLETION.
- 42.3. NOTIFY ARCHITECT WHEN WORK IS CONSIDERED READY FOR ARCHITECT'S SUBSTANTIAL COMPLETION INSPECTION.
- 42.4. SUBMIT WRITTEN CERTIFICATION CONTAINING CONTRACTOR'S CORRECTION PUNCH LIST, THAT CONTRACT DOCUMENTS HAVE BEEN REVIEWED, WORK HAS BEEN INSPECTED, AND THAT WORK IS COMPLETE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND READY FOR ARCHITECT'S SUBSTANTIAL COMPLETION INSPECTION.
- 42.5. CONDUCT SUBSTANTIAL COMPLETION INSPECTION AND CREATE FINAL CORRECTION PUNCH LIST CONTAINING ARCHITECT'S AND CONTRACTOR'S COMPREHENSIVE LIST OF ITEMS IDENTIFIED TO BE COMPLETED OR CORRECTED AND SUBMIT TO ARCHITECT.
- 42.6. CORRECT ITEMS OF WORK LISTED IN FINAL CORRECTION PUNCH LIST AND COMPLY WITH REQUIREMENTS FOR ACCESS TO OWNER-OCCUPIED AREAS.
- 42.7. NOTIFY ARCHITECTWHEN WORK IS CONSIDERED FINALLY COMPLETE AND READY FOR ARCHITECT'S SUBSTANTIAL COMPLETION FINAL INSPECTION.
- 42.8. COMPLETE ITEMS OF WORK DETERMINED BY ARCHITECT LISTED IN EXECUTED LISTED IN EXECUTED CERTIFICATE OF SUBSTANTIAL COMPLETION.
- 42.9. PROVIDE OWNER WITH 2 PAPER SETS OF AS-BUILT CONSTRUCTION DRAWINGS INDICATING WORK PERFORMED FOR THE PROJECT.
- 42.10. PROVIDE OWNER WITH ONE DIGITAL SET OF AS-BUILT CONSTRUCTION DRAWINGS IN THE FORM OF A USB THUMB DRIVE.



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