FACADE RESTORATION
28 - 34 PARK PLACE, VERNON, CONNECTICUT
FOR
TOWN OF VERNON

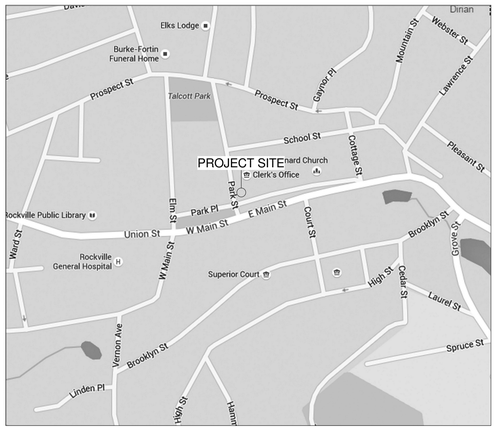
ARCHITECT:
THE ARCHITECTS - ROBERT B. HURD, AIA
56 ARBOR STREET, SUITE 403, HARTFORD, CT 06106

DATE: APRIL 29, 2016
BID SET

List of Drawings
No Scale

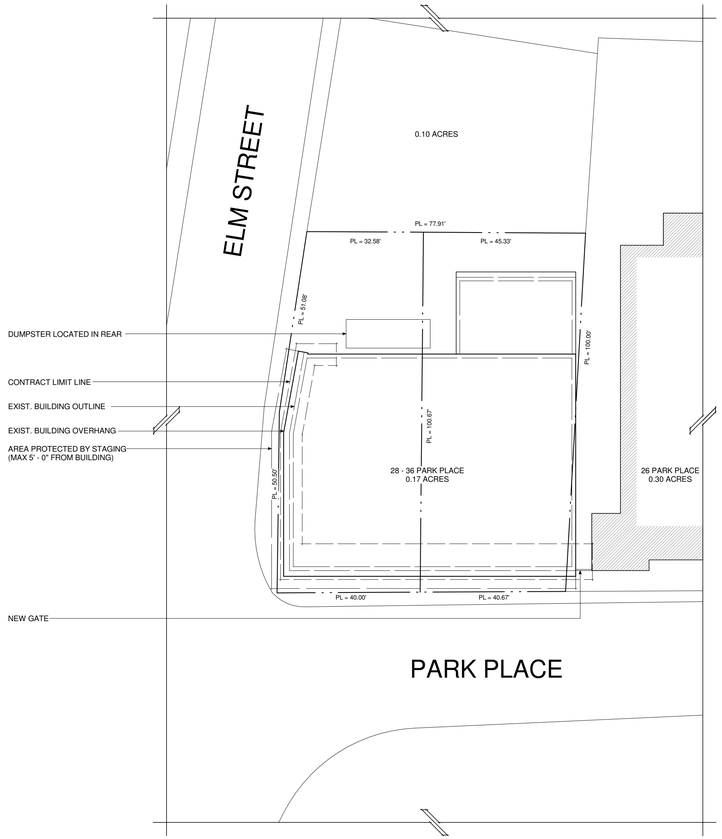
A0.1 TITLE SHEET, CODE SUMMARY, LOCATION MAP, LIST OF DRAWINGS
A1.1 SCHEMATIC SITE PLAN
A1.2 BUILDING PLANS
A2.1 BUILDING ELEVATIONS
A5.1 DETAILS
A6.1 SCHEDULES
A6.2 SPECIFICATIONS
A6.3 SPECIFICATIONS
A6.4 SPECIFICATIONS
A6.5 SPECIFICATIONS
A6.6 SPECIFICATIONS

Location Map
1"=500"

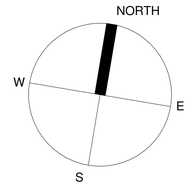


Building Code Summary
No Scale

Proj. No: 16101
Dwg. No:
A0.1



1 SCHEMATIC SITE PLAN
1" = 20'-0"



THE ARCHITECTS
Robert B. Hurd, AIA
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ALL CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS, AND DIMENSIONS BEFORE COMPLETING PRICING, ORDERING, FABRICATING AND/OR ASSEMBLING ANY AND ALL PARTS OF THE WORK.

SCHEMATIC SITE PLAN

REVISIONS:

SCALE: AS NOTED

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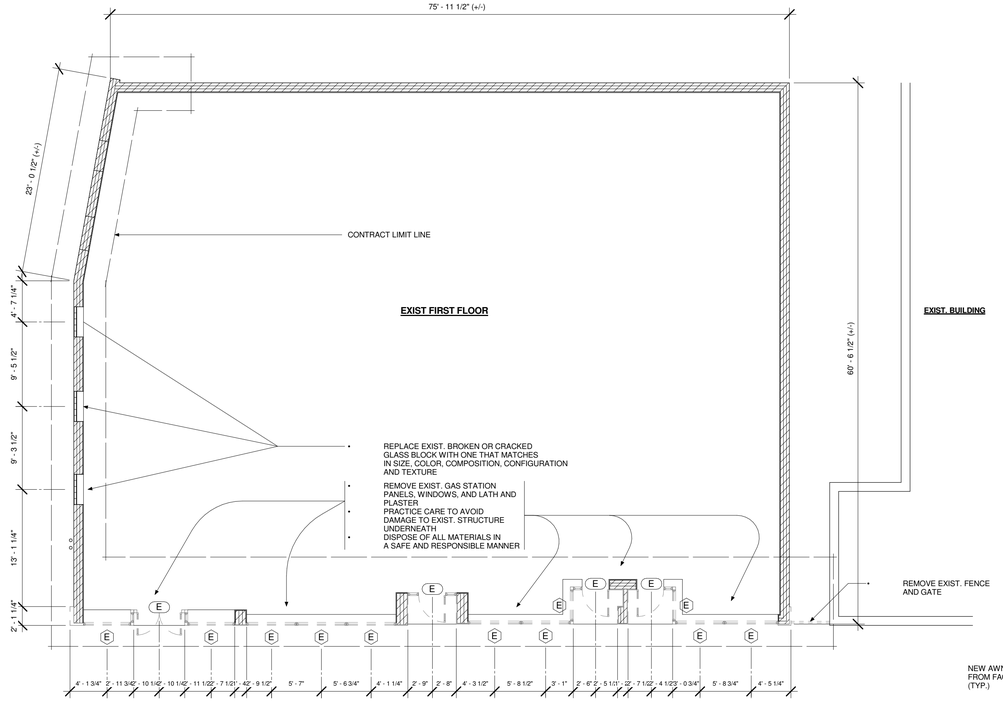
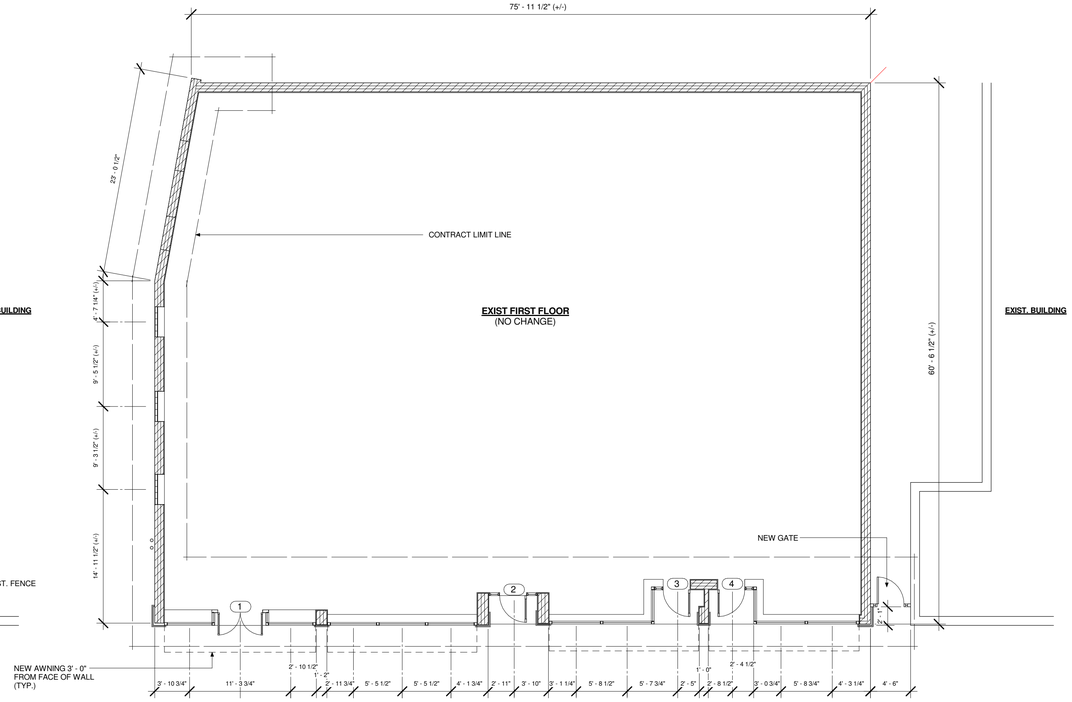
Proj. No: 16101
Dwg. No:

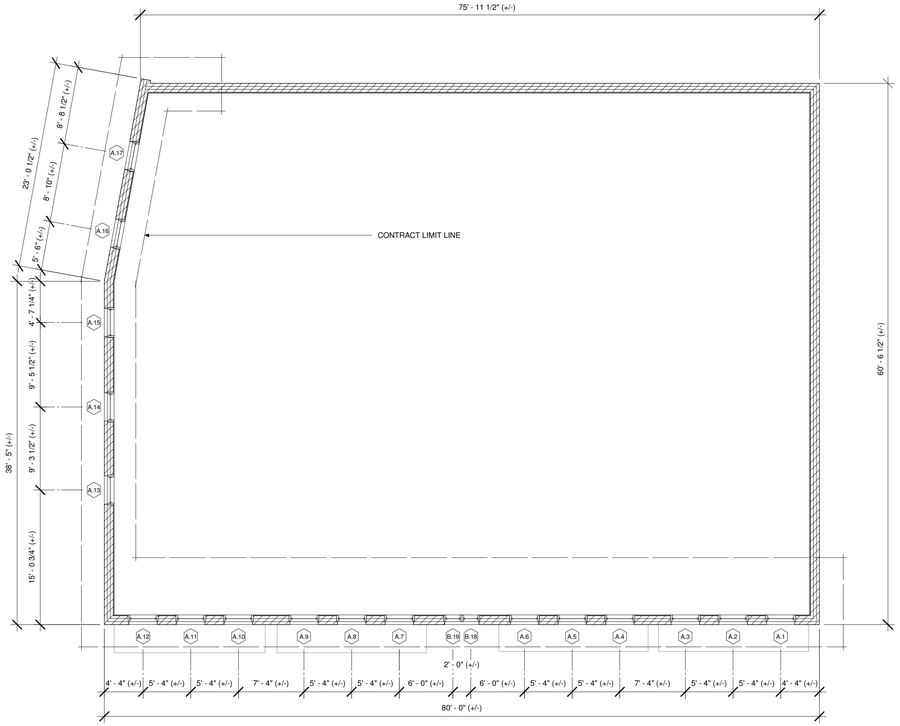
A1.1



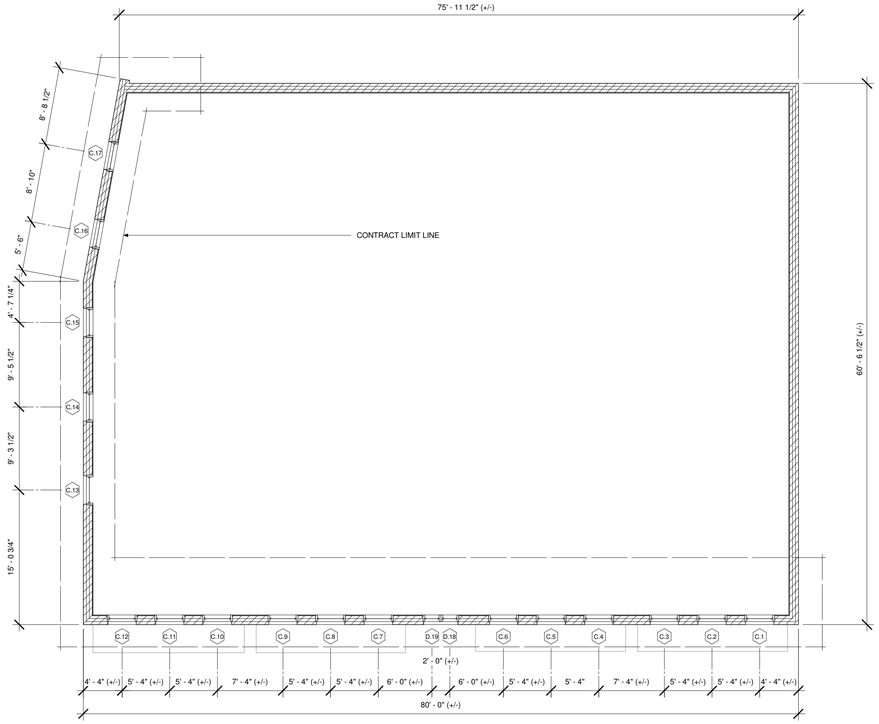
1 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"



2 FIRST FLOOR PLAN
1/8" = 1'-0"



3 SECOND FLOOR PLAN
1/8" = 1'-0"



4 THIRD FLOOR PLAN
1/8" = 1'-0"

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BUILDING PLANS

REVISIONS:

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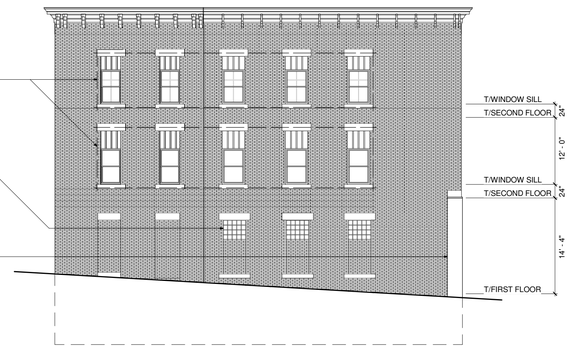
Dwg. No:

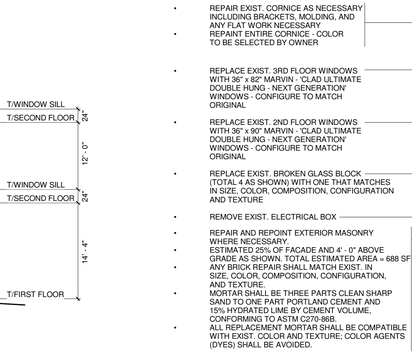
A1.2

1 EXISTING SOUTH ELEVATION
3/32" = 1'-0"

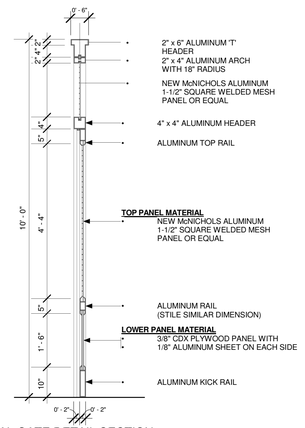
2 PROPOSED SOUTH ELEVATION
3/32" = 1'-0"



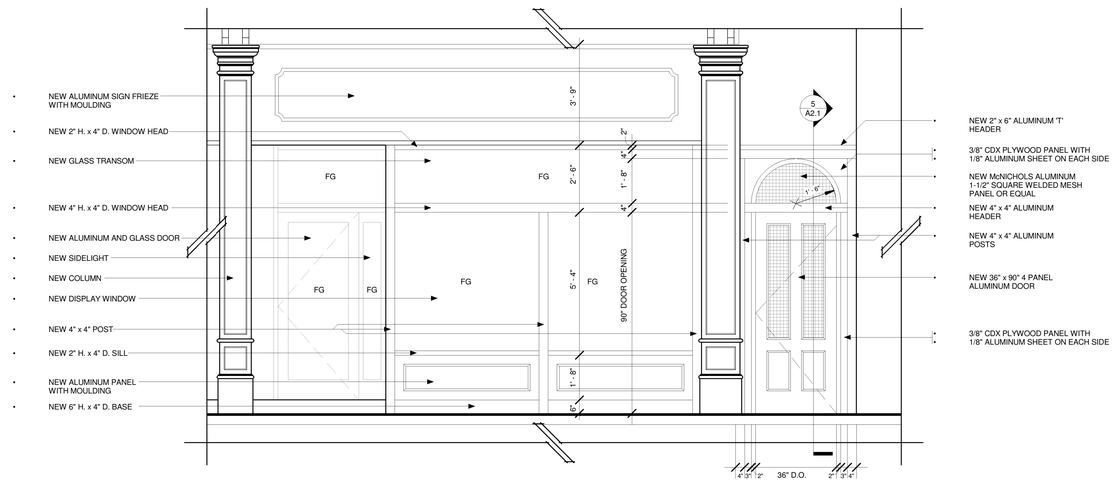
3 EXISTING WEST ELEVATION
3/32" = 1'-0"



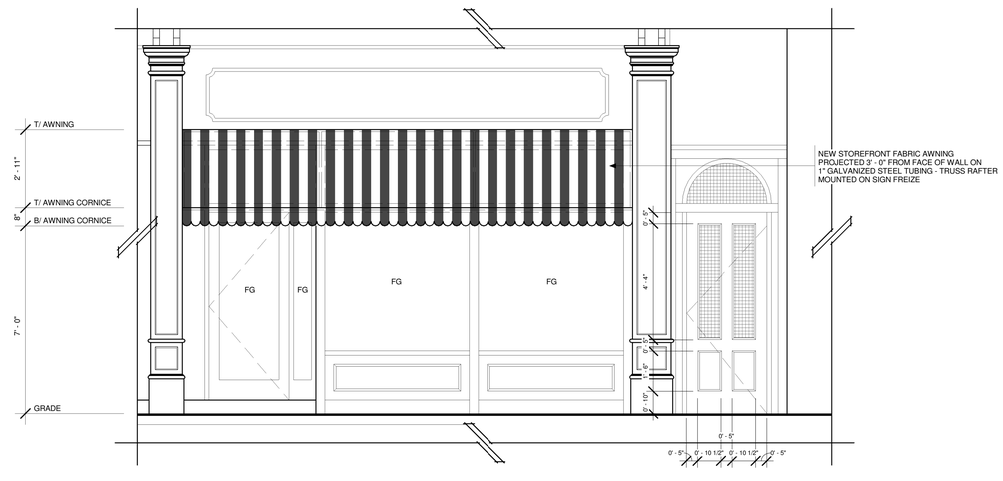
4 PROPOSED WEST ELEVATION
3/32" = 1'-0"



5 TYPICAL GATE DETAIL SECTION
1/2" = 1'-0"



6 TYPICAL STOREFRONT DETAIL
3/8" = 1'-0"



7 TYPICAL AWNING DETAIL
3/8" = 1'-0"

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BUILDING ELEVATIONS

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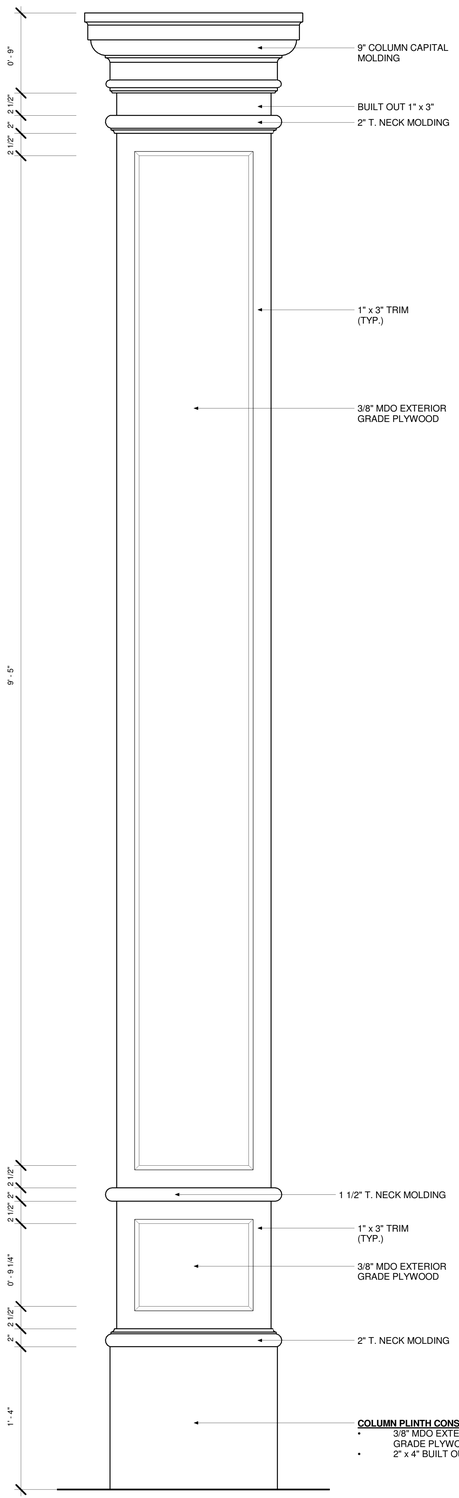
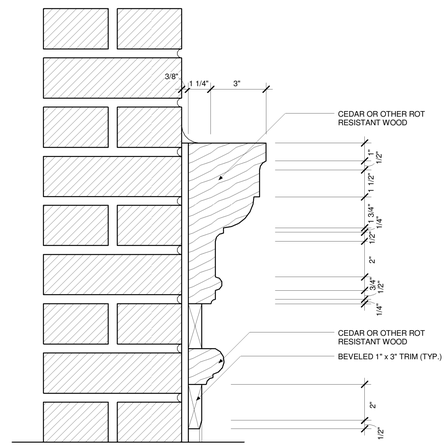
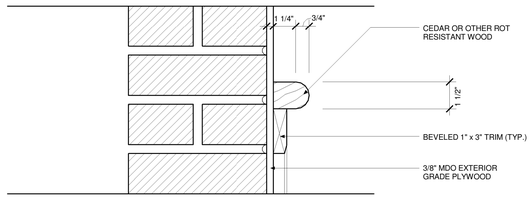
A2.1



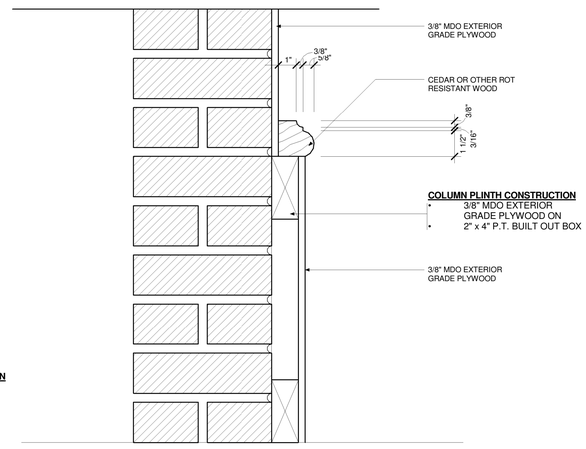
1 COLUMN DETAIL (TYP)
1 1/2" = 1'-0"



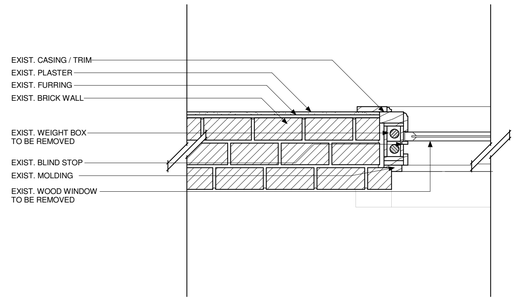
2 COLUMN CAPITAL DETAIL (TYP)
3" = 1'-0"

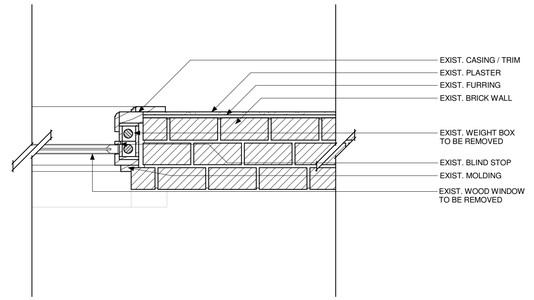


3 COLUMN MOLDING DETAIL (TYP)
3" = 1'-0"

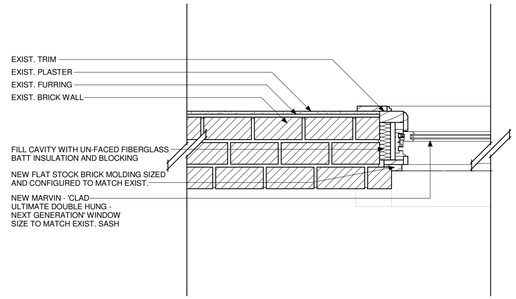


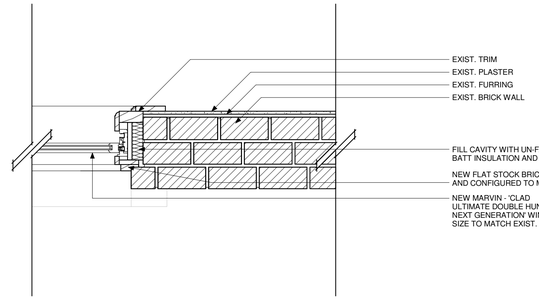
4 COLUMN BASE DETAIL (TYP)
3" = 1'-0"



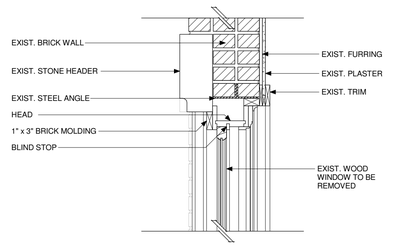


5 ASSUMED EXIST. CONDITION OF WINDOW JAM
1" = 1'-0"

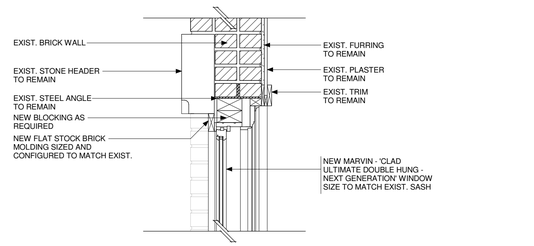




6 PROPOSED DETAIL OF MARVIN WINDOW JAM
1" = 1'-0"



7 ASSUMED EXIST. CONDITION OF WINDOW HEAD / SILL
1" = 1'-0"



8 PROPOSED DETAIL OF MARVIN WINDOW HEAD / SILL
1" = 1'-0"

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DETAILS

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A5.1

WINDOW SCHEDULE FLOOR 2 - EXISTING

NO SCALE

MARK	TYPE	ROUGH OPENING	SASH SIZE [VIF]	SASH	REMARKS
		WIDTH x HEIGHT	WIDTH x HEIGHT		
A.1	DH	V-I-F	36" x 90"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
A.2	DH	V-I-F	36" x 90"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
A.3	DH	V-I-F	36" x 90"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
A.4	DH	V-I-F	36" x 90"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
A.5	DH	V-I-F	36" x 90"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
A.6	DH	V-I-F	36" x 90"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
A.7	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW, ROTTED SILL
A.8	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW, ROTTED SILL
A.9	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW, ROTTED SILL
A.10	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW, ROTTED SILL
A.11	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW, ROTTED SILL
A.12	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW, ROTTED SILL
A.13	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW
A.14	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW
A.15	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW
A.16	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW
A.17	DH	V-I-F	36" x 90"	2 OVER 2	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW
B.18	DH	V-I-F	24" x 70"	1 OVER 1	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW, ROTTED SILL
B.19	DH	V-I-F	24" x 70"	1 OVER 1	EXIST REPLACEMENT WINDOW WITH 30" PANEL ABOVE WINDOW, ROTTED SILL

NOTES:
1. ALL EXISTING SASH ARE IN FAIR-TO-POOR CONDITION DUE TO DEFERRED MAINTENANCE.
2. WINDOWS AT THIRD FLOOR WITH STORM WINDOWS MAY HAVE MISSING COMPONENTS.
3. SOUTH FACING WINDOWS HAVE SEVERELY ROTTED SILLS.

WINDOW SCHEDULE FLOOR 3 - EXISTING

NO SCALE

MARK	TYPE	ROUGH OPENING	SASH SIZE [VIF]	SASH	REMARKS [1]
		WIDTH x HEIGHT	WIDTH x HEIGHT		
C.1	DH	V-I-F	36" x 82"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
C.2	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
C.3	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
C4	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
C.5	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
C.6	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, DETERIORATED BOTTOM AND MEETING RAILS, ROTTED SILL
C.7	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
C.8	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
C.9	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH MISSING, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
C.10	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
C.11	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
C.12	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH MISSING, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
C.13	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH MISSING, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
C.14	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
C.15	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
C.16	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
C.17	DH	V-I-F	36" X 82"	2 OVER 2	EXIST SASH INTACT, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
D.18	DH	V-I-F	24" x 82"	1 OVER 1	EXIST SASH INTACT, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL
D.19	DH	V-I-F	24" x 82"	1 OVER 1	EXIST SASH INTACT, STORM WINDOW WITH 22" PANEL ABOVE WINDOW, ROTTED SILL

NOTES:
1. ALL EXISTING SASH ARE IN FAIR-TO-POOR CONDITION DUE TO DEFERRED MAINTENANCE.
2. WINDOWS AT THIRD FLOOR WITH STORM WINDOWS MAY HAVE MISSING COMPONENTS.
3. SOUTH FACING WINDOWS HAVE SEVERELY ROTTED SILLS.

WINDOW SCHEDULE FLOOR 2 - NEW

NO SCALE

MARK	TYPE	ROUGH OPENING	SASH SIZE	SASH	GLASS A.	VENT A.	EGRESS A.	REMARKS
		WIDTH x HEIGHT	WIDTH x HEIGHT					
A.1	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.2	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.3	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.4	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.5	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.6	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.7	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.8	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.9	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.10	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.11	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.12	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.13	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.14	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.15	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.16	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
A.17	DH	37" x 90 1/2"	36" x 90"	2 OVER 2	15.71 SF	8.99 SF	8.99 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
B.18	DH	25" x 70 1/2"	24" x 70"	1 OVER 1	6.82 SF	3.67 SF	N/A	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
B.19	DH	25" x 70 1/2"	24" x 70"	1 OVER 1	6.82 SF	3.67 SF	N/A	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.

NOTES:
1. NEW DOUBLE HUNG WINDOWS SHALL BE "CLAD ULTIMATE DOUBLE HUNG" WINDOWS BY MARVIN WINDOWS AND DOORS MANUFACTURED BY MARVIN WINDOWS AND DOORS, WARROAD, MN
2) REMOVE EXIST. WINDOWS FROM OUTSIDE; PRACTICE CARE TO AVOID DAMAGE TO EXIST. INTERIOR TRIM.
3) REPLACE ROTTED WINDOW SILLS AS REQUIRED WITH ROT RESISTANT WOOD TO MATCH EXIST. IN SIZE AND CONFIGURATION.
4) NEW EXTERIOR TRIM SHALL BE FLATSTOCK TO MATCH EXIST. IN SIZE AND CONFIGURATION.
5) NEW WINDOWS AND TRIM COLOR TO BE SELECTED BY OWNER
6) NEW WINDOWS SHALL HAVE STANDARD SASH LOCKS AND/OR STANDARD OPERATING HARDWARE.

WINDOW SCHEDULE FLOOR 3 - NEW

NO SCALE

MARK	TYPE	ROUGH OPENIN	SASH SIZE	SASH	GLASS A.	VENT A.	EGRESS A.	REMARKS
		WIDTH x HEIGHT	WIDTH x HEIGHT					
C.1	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.2	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.3	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.4	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.5	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.6	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.7	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.8	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.9	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.10	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.11	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.12	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.13	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.14	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.15	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.16	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
C.17	DH	37" x 82 1/2"	36" x 82"	2 OVER 2	14.12 SF	7.33 SF	7.33 SF	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
D.18	DH	25" x 82 1/2"	24" x 82"	1 OVER 1	8.21 SF	4.44 SF	N/A	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.
D.19	DH	25" x 82 1/2"	24" x 82"	1 OVER 1	8.21 SF	4.44 SF	N/A	MARVIN - "CLAD ULTIMATE DOUBLE HUNG" WINDOW, WITH LOW-E GLASS CONFIGURED TO MATCH EXIST.

NOTES:
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4) NEW EXTERIOR TRIM SHALL BE FLATSTOCK TO MATCH EXIST. IN SIZE AND CONFIGURATION.
5) NEW WINDOWS AND TRIM COLOR TO BE SELECTED BY OWNER.
6) NEW WINDOWS SHALL HAVE STANDARD SASH LOCKS AND/OR STANDARD OPERATING HARDWARE.

DOOR SCHEDULE

NO SCALE

MARK	SIZE	DOOR		FRAME		REMARKS
	W x H x T	MATERIAL	FINISH	MATERIAL	FINISH	
1	(2) 30"x84"	ALUMINUM	FACTORY	ALUMINUM	FACTORY	ALUMINUM ENTRY DOOR, LOW-E GLASS CONFIGURED TO MATCH EXIST. HW 1
2	36"x84"	ALUMINUM	FACTORY	ALUMINUM	FACTORY	ALUMINUM ENTRY DOOR, LOW-E GLASS CONFIGURED TO MATCH EXIST. HW 2
3	36"x84"	ALUMINUM	FACTORY	ALUMINUM	FACTORY	ALUMINUM ENTRY DOOR, LOW-E GLASS CONFIGURED TO MATCH EXIST. HW 1
4	36"x84"	ALUMINUM	FACTORY	ALUMINUM	FACTORY	ALUMINUM ENTRY DOOR, LOW-E GLASS CONFIGURED TO MATCH EXIST. HW 1

NOTES:
1) NEW EXTERIOR DOORS SHALL STOREFRONT ENTRY DOORS.
2) ALL NEW EXTERIOR DOORS SHALL BE PRE-HUNG WITH ONE AND ONE HALF PAIR OF BUTT HINGES, FACTORY APPLIED, AND OPERATING HARDWARE AS OUTLINED BELOW
3) DOOR AND FRAME COLOR TO BE SELECTED BY OWNER.
4) OPERATING HARDWARE SHALL BE PROVIDED AS FOLLOWS:
HW 1 - STAINLESS STEEL BUTT HINGES, CLOSER, ALUMINUM DOOR PULL, THUMB LATCH, NON-ACTIVE PUSH BAR, SINGLE CYLINDER DEADBOLT LOCK, DOOR STOP, ALUMINUM THRESHOLD
HW 2 - STAINLESS STEEL BUTT HINGES, CLOSER, ENTRANCE LOCKSET, DOOR STOP, ALUMINUM THRESHOLD, EMERGENCY PUSH PAD

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FACADE RESTORATION
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FOR: TOWN OF VERNON

ALL CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS, AND DIMENSIONS BEFORE COMPLETING PRICING, ORDERING, FABRICATING AND/OR ASSEMBLING ANY AND ALL PARTS OF THE WORK.

SCHEDULES

REVISIONS:

SCALE: AS NOTED
DATE: APRIL 29, 2016

Proj. No: 16101
Dwg. No:

A6.1

I. TECHNICAL SPECIFICATIONS

DIVISION 1 General Requirements

Section 01 01 00 Summary of the Work
Section 01 04 00 Contractor's Responsibilities
Section 01 30 00 Submittals
Section 01 40 00 Quality Control
Section 01 70 00 Contract Closeout

DIVISION 2 EXISTING CONDITIONS

Section 02 25 19 Existing Masonry Assessment
Section 02 25 23 Existing Metals Assessment
Section 02 25 26 Existing Wood, Plastics, and Composites Assessment
Section 02 41 00 Selective Demolition

DIVISION 4 MASONRY

Section 04 01 20 Masonry Cleaning
Section 04 05 13 Masonry Mortaring
Section 04 23 13 Vertical Glass Unit Masonry

DIVISION 6 WOOD, PLASTICS, AND COMPOSITES

Section 06 01 20 Maintenance of Finish Carpentry
Section 06 10 00 Rough Carpentry
Section 06 20 00 Finish Carpentry

DIVISION 7 THERMAL AND MOISTURE PROTECTION

Section 07 90 00 Joint Protection

DIVISION 8 OPENINGS

Section 08 34 56 Security Gates
Section 08 41 13 Aluminum-Framed Entrances and Storefronts
Section 08 51 00 Wood Windows

DIVISION 9 FINISHES

Section 09 91 13 Exterior Painting

DIVISION 10 SPECIALTIES

Section 10 73 13 Awnings

Section 01 01 00
SUMMARY OF WORK

Part 1 – DESCRIPTION

A. The work contemplated by this contract consists of exterior repairs. The work shall include removal of existing windows, installation of new windows, cleaning of south and west masonry exterior walls, rehabilitation of south and west exterior masonry walls, removal of existing storefront, installation of new storefront, installation of new security gate, and all related work necessary for a complete job. The building is owned by the Town of Vernon. The Contractor shall exercise care to protect the property of the Owner from damage during performance of the work. At completion of the work, the building shall be returned to a suitable condition approved by the Architect and Owner.

B. This project will be financed in part by a grant from the **State of Connecticut** through **the Department of Housing.** The contents of the Specifications do not necessarily reflect the views or policies of the Department or the State of Connecticut, nor does the use of trade names or commercial-product references constitute endorsement by the Department.

C. **Work** on this project shall conform to the **Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings (Current Edition),** and shall be approved by the Connecticut State Historic Preservation Office (SHPO). **The prime Contractor and all subcontractors** shall demonstrate the qualifications and the experience with historic buildings necessary to assure competent completion of the contract. The Contractor shall carry appropriate insurance coverage as required by the Town of Vernon and the State of Connecticut.

D. **This project IS subject to State Prevailing Wage Rates.**

E. **The Town of Vernon is exempt from sales tax on materials and services for projects of this type.**

END OF SECTION

Section 01 04 00
CONTRACTOR'S RESPONSIBILITIES

Part 1 – DESCRIPTION

A. The Contractor shall supervise and direct the work. He shall provide an on-site superintendent, and he shall coordinate his work with that of all subcontractors. He shall insure quality workmanship in accord with the **Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings (Current Edition)** and prevailing industry standards. The Contractor shall have sole responsibility for all construction means, methods and techniques.

B. The Contractor shall perform the work in a timely manner. He shall begin the work as soon as possible after award of the contract, and he shall complete the work on or prior to a maximum of **ninety-five (95) calendar days** from the date of the Notice to Proceed.

C. The Contractor shall obtain all necessary state and local permits including, but not necessarily limited to, the Building Permit prior to beginning the work under this contract. The Town of Vernon is exempt from local fees for the Building Permit. State fees cannot be waived and shall be included in the bid price at 0.26$ per $1,000.

D. The contractor shall carry the insurance accord with the specifications of the contract.

E. The Contractor shall exercise care to assure the safety of all workers, the Owner and the general public. He shall control access to all areas where work is performed, and he shall coordinate his activities with those of the Owner. He shall secure all property of the Owner and its tenants against damage and/or loss during the construction period.

F. The building shall be **unoccupied** during performance of the work.

G. The Contractor shall protect the building and its contents from weather and other intrusions during construction. He shall protect all completed work from damage by subsequent contractors and others during construction.

H. The Contractor shall provide one **PROJECT SIGN** for the project. The materials and layout are described in the Contract Drawings; paint shall be high-gloss exterior enamel; colors shall be Royal Blue, Black and White, located as shown.

END OF SECTION

Section 01 30 00
SUBMITTALS

Part 1 – DESCRIPTION

A. The Contractor shall provide at least one (1) electronic copy (PDF) or four (4) paper copies of all submittals, required by these documents, including drawings for the project sign, to the Architect for review prior to ordering, fabricating and/or installing the work.

B. The Contractor shall provide four (4) color copies of a photograph showing the required **PROJECT SIGN**, and its placement in proximity to the building.

C. The Contractor shall provide four (4) paper copies of each application for payment. Each copy shall have original signatures and shall bear the seal of a notary attesting to its veracity.

C. The Contractor shall secure guarantees/warranties from all subcontractors/suppliers for their respective portions of the work. All work shall be guaranteed/warrantied for one year unless specified for a longer period. The start of the guarantee/warrantee period shall be the date of the Certificate of Substantial Completion.

D. At completion of the project, the Contractor shall furnish the Owner two (2) complete copies of all maintenance and operation manuals in loose-leaf binders including all guarantees/warranties, all lien waivers or releases, and all equipment operating instructions, if any, as required by these documents and/or requested by the Owner.

END OF SECTION

Section 01 40 00
QUALITY CONTROL

Part 1 – DESCRIPTION

A. The **Connecticut State Building Code, 2005** (ICC International Existing Building Code, 2003 and ICC International Building Code, 2003), is hereby made a part of these Specifications, and all work included in this contract shall conform with the applicable requirements therein.

B. Various standards and specifications are incorporated into the technical sections of these Specifications by reference. In all such instances, the reference shall mean the latest edition, including amendments or revisions, in effect as of the date of these Specifications. Nothing contained in these Specifications shall be construed to permit work which is contrary to such standards and specifications.

C. Miscellaneous items and their related components which are to be furnished under these Specifications are not necessarily individually described. The most important features and those requiring detailed description are mentioned and described. All necessary components shall be furnished in accord with the intent of the Contract Documents and as required for a complete job.

END OF SECTION

Section 01 70 00
PROJECT CLOSEOUT

Part 1 – DESCRIPTION

A. At completion and before final inspection by the Architect and Owner, the Contractor shall conduct a thorough examination of the work to assure completion of his work and that of all subcontractors. He shall perform his own Punch List evaluations and make all necessary corrections.

B. At completion and before final inspection by the Architect, the Contractor shall clean the work area, interior and exterior, of all construction related debris. He shall remove all construction facilities, debris and rubbish from the property. He shall clean all work of all trades as needed, whether or not such cleaning is included in the specifications for that trade.

C. The Contractor shall exercise care to avoid damage to all existing and/or newly completed work. He shall repair or replace all damaged materials prior to final acceptance and occupancy.

D. The Contractor shall clean and polish all window glass at the building, new and existing, on both its exterior and interior faces, prior to acceptance of the work by the Architect and the Owner.

END OF SECTION

Section 02 25 19,23,26
EXISTING CONDITIONS ASSESSMENT

Part 1 — GENERAL

1.1 INCLUDED IN THIS SECTION
- A. General condition of the existing exterior masonry walls.
- B. General condition of the existing storefront.
- C. General condition of the existing wood windows.

1.2 RELATED SECTIONS
- A. Section 04 01 20 — Masonry Cleaning
- B. Section 04 05 13 — Masonry Mortaring
- C. Section 04 23 13 — Vertical Glass Masonry Units
- D. Section 08 11 16 — Aluminum Doors and Frames
- E. Section 08 41 13 — Aluminum Framed Entrances and Storefronts
- F. Section 08 51 00 — Wood Windows

Part 2 — CONDITIONS ASSESSMENT

1.1 EXISTING SOUTH EXTERIOR MASONRY

There are mortar faults throughout the exterior masonry façade. The façade is in need of cleaning and repointing. Estimated scope of repointing is 30% of façade plus south west engaged column as shown on contract drawings. There is red paint on the masonry around windows A.7 through A.17, B.18, B.19, C.7 through C.17, D.18, and D.19.On the base of the engaged columns on the south façade there is residue of step flashing. Individual bricks appear to be in good structural condition.

1.2 EXISTING WEST EXTERIOR MASONRY

There are mortar faults throughout the exterior masonry façade. The façade is in need of cleaning and repointing. Estimated scope of repointing is 25% of façade plus 4' - 0" above grade as shown on the contract drawings. There is an outline of a pediment in black paint along the base of the wall. 4 of the 20 existing glass masonry units are broken and in need of replacement. Individual bricks appear to be in good structural condition.

1.3 EXISTING NORTH EXTERIOR MASONRY

On the north façade only 8' - 0" from the corner will be part of the scope of work. There are mortar faults throughout the exterior masonry façade. The façade is in need of cleaning and repointing. There is an outline of a stair in green paint along the north facade.

1.4 EXISTING STOREFRONT

The existing storefront is deteriorating and assumed to be hazardous material that needs to be removed. A section of the storefront was dissected, under the panels there is a layer of lath and plaster.

1.5 EXISTING WINDOWS

All existing sash are in fair-to-poor condition due to deferred maintenance. Windows at third floor with storm windows may have missing components. South facing windows have severely rotted sills. Windows A.1 through A.6 and C.1 through C.6 have existing sash intact, deteriorated bottom and meeting rails, and a rotted sill. Windows A.7 through A.12, B.18, and B.19 have existing replacement window with 30" panel above window and a rotted sill. Windows A.13 through A.17 have existing replacement windows with 30" panel above window. Windows C.7, C.8, C.10, C.11, C.14 through C.17, D.18, and D.19 have existing sash intact, storm window with 22" panel above window, and a rotted sill. Windows C.9, C.12, and C.13 are missing existing sash, storm window with 22" panel above window, and a rotted sill.

END OF SECTION

Section 02 41 00
SELECTIVE DEMOLITION

Part 1 – GENERAL

1.1 INCLUDED IN THIS SECTION
- A. Dismantling of masonry that has shifted, is loose, cracked, or broken.
- B. Dismantling of glass masonry that has shifted, is loose, cracked, or broken.
- C. Dismantling of existing storefront.
- D. Dismantling of designated windows.

1.2 RELATED SECTIONS
- A. Section 04 01 20 – Masonry Cleaning
- B. Section 04 05 13 - Masonry Mortaring
- C. Section 04 23 13 - Vertical Glass Masonry Units
- D. Section 08 11 16 - Aluminum Doors and Frames
- E. Section 08 41 13 - Aluminum Framed Entrances and Storefronts
- F. Section 08 51 00 - Wood Windows

1.3 REFERENCES
- A. Comply with all similarly applicable demolition standards of the Connecticut State Building Code.
- B. Comply with all applicable OSHA requirements.
- C. Comply with all applicable E.P.A. Safety requirements.

1.4 SUBMITTALS
- A. Submit certificates attesting to legal disposal of refuse materials if requested by the Architect or Owner
- B. Provide proper waste documents of disposal/transportation of hazardous waste material if requested by the Architect or Owner.

1.5 PROTECTION
- A. Provide for the uninterrupted safety of workers and the adjacent structures to remain as well as the general public during all phases of the work. Provide warning signs, and barricades as required to maintain a separate, safe, secure site.
- B. Protect all elements which are to remain and all historic elements to be retained and/or re-set. Do not dismantle anything other than what is specifically indicated on the contract documents unless specifically requested to do so in writing by the Architect.
- C. Handle and Dispose of all hazardous materials per EPA regulations (40 CFR Part 761).
- D. Assume that all of the following materials are hazardous:
  - **a. Asbestos**
    - i. Brown Wood Window Frame Caulk – Main Building
    - ii. Black Residual Wall Flashing - South Façade
    - iii. Flashing Felts at Chimney - Main Roof
    - iv. Flashing Tar - Lower Roof
    - v. Tan Wall Panel Caulk - South Façade
    - vi. Yellow Door Frame Caulk - East Façade
  - **b. Lead-Based Paint**
    - i. Wood soffit/cornice
    - ii. Concrete Columns
    - iii. Wood portico
  - **c. Polychlorinated Biphenyl (PCB)**
    - i. Window Frame Caulk
    - ii. Window Glazing Compound
    - iii. Door Frame Caulk
    - iv. Wall Panel Caulk
    - v. Glass Block Caulk
    - vi. Gray/Black Paint on Concrete Columns
    - vii. Light Gray Paint on Metal Panels
    - viii. Multiple Types of Window Component Paint
    - ix. Multiple Types of Door Component Paint
    - x. Beige Soffit/Cornice Paint
    - xi. Light Gray Paint on Wood Portico Components
    - xii. Window Glazing Compound

Part 2 – PRODUCTS

2.1 MATERIALS AND PRODUCTS
- A. Provide products and materials which are incidental to the dismantling and demolition work, disposing of these or salvaging them for re-use as best suits the project conditions.

Part 3 – EXECUTION

3.1 SITE REVIEW
- A. Perform full review of site to verify extent of dismantling and to plan for coordination with other trades.

3.2 DISMANTLE (REMOVE FROM PRESENT POSITION) THE FOLLOWING:
- A. Masonry that has been designated to be removed.
- B. Masonry that has loosened or shifted that is immediately contiguous to the designated removal.
- C. Glass masonry that has been designated to be removed.
- D. Wood windows that have been designated to be removed.
- E. Storefront that has been designated to be removed.
- F. Doors that have been designated to be removed.

3.3 DISMANTLING OPERATIONS
- A. Carefully study each item to be dismantled and determine the safest, least disturbing and potentially damaging method of disassembly.
- B. Dismantle the specific items and store items designated for re-use or salvage in a safe place.
- C. Notify the Architect immediately if any damage has occurred to any of the dismantled items and propose appropriate methods of repair.

3.4 DEMOLITION OPERATIONS
- A. Examine areas and conditions under which the Work will be performed. Correct conditions which are detrimental to the timely and proper completion of the work. Proceed only when unsatisfactory conditions have been corrected.
- B. Protect items in or near the work that are to remain.
- C. Minimize noise and dust. Provide wetting and protection as required.
- D. Prevent accumulation of debris on the site. Remove, refuse, or salvage items on a continuous, on-going basis.
- E. Do not demolish any elements on which other elements depend for their stability without directly supporting them by another means. Proceed with all dismantling work in an incremental fashion to avoid destabilizing the structure.
- F. Return site to neat, tidy condition following dismantling operations.

END OF SECTION

Section 04 01 20
MASONRY CLEANING

Part 1 — GENERAL

1.1 INCLUDED IN THIS SECTION
- A. Cleaning of exterior brick masonry.

1.2 RELATED SECTIONS
- A. Section 02 25 19 — Existing Masonry Assessment
- B. Section 04 05 13 — Masonry Mortaring
- C. Section 04 23 13 — Vertical Glass Unit Masonry

1.3 REFERENCES
- A. Comply with all similarly applicable demolition standards of the Connecticut State Building Code.
- B. Comply with all applicable OSHA requirements.

1.4 SUBMITTALS
- A. Manufacturer's product data and installation recommendation.
- B. Samples of all non-masonry materials specified, each properly labeled.
- C. Materials Safety Data Sheets (MSDS) for all materials to be used.
- D. Contractor Qualifications
  1. The work specified herein and indicated on the Drawings shall be installed by a firm who can furnish supporting evidence of experience to perform this work and who has regularly been engaged in masonry restoration and installation on a full time basis for a period of not less than 5 years.
  2. Provide the name, address, architect, general contractor, and appropriate subcontractors with phone numbers and contact person for three buildings that the Contractor has worked on during the past 5 years that involved similar brick restoration/replacement.
  3. Provide the name of each person who will be performing the Work, a summary of their work experience, and their employer's name, business address, and telephone number. Each person who will be performing the Work must provide supporting evidence of experience to perform this work and who has regularly been engaged in masonry restoration on a full time basis for a period of not less than 5 years.
- E. Cleaning Products and Procedures: For the general cleaning and for each staining type identified, submit the following package of information:
  1. Product literature and manufacturer's recommendation for the masonry.
  2. Cleaning products and equipment.
  3. Written procedures for proposed masonry cleaning. Include procedures for protecting building occupants, pedestrians, and the work and for containing and disposing of effluent. Include information on product concentration, dwell time and application method.
  4. Procedures are to be submitted both prior to mock-ups and prior to full cleaning.

1.5 MOCK-UPS
- A. Working in conjunction with the related sections, construct mock-ups of the conditions listed below. Mock-ups must be constructed by scheduled installer. Coordinate mock-up location with Architect and Owner before constructing. Notify the Architect at least 48 hours before starting work on each mock-up. Do not proceed with any part of the work before completion of the review process for each appropriate mock-up.
  1. Cleaning: Provide the following sample panels of proposed cleaning methods. Locations of mock-ups to be determined by Architect. For each cleaning mock-up, mask off the area to be cleaned and clearly identify the cleaning procedure used, including the product, dilution, dwell time, and any variations to the manufacturer's recommended procedure. Leave masking in place so that mock-up will determine procedures for each area of soiling including approximate concentration and dwell time.
     - i. Atmospheric Staining (General Cleaning Area): 5 ft x 5 ft area.
     - ii. Biological Staining: 2 ft x 2 ft area. (TBD if applicable)
- B. The mock-ups will be used to establish both technical and aesthetic standards for the remainder of the project. Reconstruct the mock-ups as many times as required by the Architect at no additional cost to the Owner. The approved mock-up may become part of the finished work.

1.6 PROJECT CONDITIONS
- A. Protection During cleaning: Protect persons, motor vehicles, construction site and surrounding buildings from injury resulting from stone cleaning work.
  1. Protect all nono-stone surfaces. Review all protective measurements with the Architect.
  2. Protect all non masonry surfaces. Review all protective measurements with the Architect.
  3. Prevent cleaning solutions from coming into contact with pedestrians, motor vehicles, plant materials, buildings, and other surfaces that could be injured by such contact.
  4. Do not clean stone during winds of sufficient force to spread cleaning solutions to unprotected surfaces.
  5. Dispose of run-off from cleaning operations by legal means and in a manner which prevents soil erosion, undermining of paving and foundations, and damage to adjacent landscaping.

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ALL CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS, AND DIMENSIONS BEFORE COMPLETING PRICING, ORDERING, FABRICATING AND/OR ASSEMBLING ANY AND ALL PARTS OF THE WORK.

SPECIFICATIONS

REVISIONS:

SCALE: AS NOTED
DATE: APRIL 29, 2016

Proj. No: 16101
Dwg. No:

A6.2

PART 2 — PRODUCTS

2.1 CLEANING MATERIALS

A. Water: Clean, potable, non-staining, and free of oils, acids, alkalis, and organic matter.

B. Water spray apparatus: Pumps, backflow preventions, and misting unit capable of applying a constant spray rate set between 0.4 and 0.8 gal/sf/min.

C. Pressure wash unit: Unit capable of delivering water at a pressure between 150 psi and 250 psi; with a flow rate of 4 gal per min. Use 45° fan tip.

D. Application Brushes: For acid-based cleaners, use soft natural fiber (tampico) or masonry brushes only. For other cleaners, use natural fiber or nylon brushes only. Do not use metal wire brushes on masonry.

E. General Cleaning and Biological Growth:

1. American Building Restoration Products, Inc., Franklin, Wisconsin.
   Building Wash 3
2. Prosoco:
   Sure Kleen Restoration Cleaner
3. Approved equal.

F. Roofing Bitumen: Prosoco Asphalt & Tar Remover, or approved equal.

G. Metallic Stains:

1. 4980 Copper Stain Remover by TxCon Products
2. 2380 Copper Stain Remover available at Shorebest (www.shorebest.com)
3. Approved equal

H. Sealant Residue: Prosoco Dicone NC9, or approved equal

PART 3 — EXECUTION

3.1 CLEANING — GENERAL AND BIOLOGICAL GROWTH

A. Examine all surfaces scheduled for cleaning, for roughness, contaminants, unsound structural substrates, or other conditions that may impair the application. Notify the Architect in writing of any such conditions; do not continue work until directed by Architect on how to proceed.

B. Monitor weather prior to work to ensure that air temperatures remain between 50°F and 85°F, or as recommended by the manufacturer of chemical compounds and proprietors of cleaning methods.

C. Ensure the building components not to be cleaned, adjacent persons, property and plant life are protected from all cleaning activities and wind drift. Test adjacent non-masonry materials for reaction with cleaning materials. Mask all windows, ornamental fixtures, hardware, wood doors, or other non-masonry surfaces.

D. Start work at the top of the building.

E. Water Soak:

1. Wet the masonry surface by soaking for 24 hours with a low-pressure misting system to swell and loosen soiling. Avoid excessive wetting. Use as little water as possible to keep the soiled areas moist or use controls to provide intermittent spray according to temperature, exposure, and humidity.
2. The time of the soaking operation will vary considerably depending on the degree and nature of soiling. Experiment with soaking times necessary to achieve the degree of cleaning required by the Owner; use the mock-up testing to determine appropriate soaking times for general cleaning and for heavily soiled areas.
3. Brush heavily soiled areas with specified bristle brushes as needed to loosen deposits and improve the action of the water misting. Some stains may require considerable effort, but take care at all times to avoid damaging the masonry.
4. Monitor the exterior for dissolved salts that may be carried out of the masonry to the surface. Monitor the building interior for leakage.
5. Collect runoff and direct the water to predetermined, approved drainage paths.
6. Perform a final rinse down with pressurized water spray after the soiling reaches a state that allows easy removal without damaging the masonry. Use the mock-up tests to carefully determine the lowest effective pressure. Typically, pressure between 150 psi and 250 psi at 4 gal per min. are adequate.

F. Chemical Cleaning: This method is only to be used if water soak and pressure wash results are found to be inadequate; use must be approved by Architect on a case by case basis.

1. Clean exposed stone surfaces using the manufacturer's current printed specifications as modified herein. Consult with Architect on procedure before beginning. Test small area first.
2. When cleaning, use pressure washers at pressure between 150 psi and 250 psi and with nozzle flow rate below 4 gal per min. Hold the nozzle several inches from the surface so that there is no chance of inadvertently etching the masonry.
3. Brush loose debris and dust off stone surfaces.
4. Pre-rinse the stone with water before applying cleaners.
5. Dilute cleaner per manufacturer's instructions and as determined in mock-ups.
6. Apply cleaning materials with tampico brushes only; do not use sprayers. Work on areas approximately 5 ft x 5 ft in size, or as directed by the contours of the building, at one time.
7. Rinse stone (150 to 250 psi using 4 gal per min).
8. Repeat once if required to achieve the desired results as determined by the Owner and Architect.
9. Remove necessary masking materials, including any residue or markings left by tape, following completion of cleaning operations. Dispose of hazardous materials off site. Clean all windows and non-masonry areas free of masking materials.

END OF SECTION

Section 04 05 13

MASONRY MORTARING

Part 1 – GENERAL

1.1 INCLUDED IN THIS SECTION

A. Cutting, pointing, resetting, and localized repair of exterior stonework to remain.

1.2 SCOPE OF WORK

A. The Work shall include all masonry work, the nature and quantities of which are detailed and described herein and on the contract drawings.

B. The masonry Contractor shall be responsible for coordinating and ensuring that all flashing and weep holes are installed.

1.3 RELATED SECTIONS

A. Section 02 25 19 — Existing Masonry Assessment

B. Section 02 41 00 — Selective Demolition

C. Section 04 01 20 — Masonry Cleaning

1.4 REFERENCES

A. Comply with the following standard material specifications:

1. ASTM C33 - Concrete Aggregates
2. ASTM C141 - Hydrated Hydraulic Lime
3. ASTM C144 - Sand for Mortar and Grout
4. ASTM C270 - Mortar and Mortar Testing for Unit Masonry
5. ACI 530 - Building Code Requirements for Masonry Structures
6. ACI 530.1 - Specifications for Masonry Structures
7. ASTM B370 - Copper Sheet and Strip for Building Construction
8. ASTM C55 - Concrete Building Brick
9. IMIAC - International Masonry Industry All-Weather Council: Recommended Practices and Guide Specification for Cold Weather Masonry Construction
10. UL - Fire Resistance Directory

1.5 SUBMITTALS

A. Submit the following items to the Architect for review:

1. Test reports required as per paragraph 1.6 - Quality Control.
2. Product Data: Submit manufacturer's technical data for each product indicated including recommendations for their application and use. Include test reports and certifications substantiating that products comply with requirements.
3. Product data sheets and samples.

1.6 FIELD-CONSTRUCTION MOCK-UPS:

A. Prior to start of general masonry restoration, prepare at least two (2) mock-ups for the following:

1. Cutting and pointing (4 sf each)

B. Mock-ups to be located on building where directed by Architect. Notify Owner and Architect at least one week prior to beginning of work, so that they may be present. Obtain Architect's approval of visual qualities before proceeding with further work. Allow sufficient time for this review process. No additional work shall be performed without approval of field samples. Retain acceptable pane;s in undisturbed condition, suitably marked, during construction as a standard for judging completed work.

C. Work that does not match the approved sample panels shall be rejected and redone. The Contractor shall be responsible for producing as many sample panels as necessary to provide a match of existing adjacent work that meets satisfaction of the Architect.

1.7 QUALITY CONTROL

A. Comply with all referenced standards for the products employed.

B. All masonry work shall be performed by individuals with more than five (5) years of well referenced experience with historic stone masonry restoration.

C. During periods of cold or questionable weather, keep a log of work including air temperatures and weather conditions, work started and completed per day, and tests taken. No work shall be done when the ambient temperature of the structure or the air is less than 45° F.

D. Produce mortar and grout samples in the form of 2" x 2" x 2" flat slabs, placed against wooden side forms and backing, for easy removal of cured samples. Provide 4 samples per mortar and grout type taken on different days and cured under conditions that match field conditions to testing laboratory for compression testing. Provide at least four 2" x 2" x 2" field cut samples of existing mortar to the testing laboratory for comparative compression testing. Contractor shall arrange for and pay for all the testing and shall submit results at 7 days and at 28 days to the Architect. Adjustments in mix and re-testing shall be made as required at no additional cost to the owner. Test existing mortar samples and trial mixes at least three weeks before commencing masonry work.

E. Mortar colors and textures shall match existing cleaned stone and mortar surfaces. The contractors shall prepare an area of sufficient size to demonstrate the finish of tuck pointing mortar between the bricks and brick filler mortar on the bricks.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to site in manufacturer's original and unopened containers and packaging, bearing labels as to type and names of products and manufacturers.

B. Protect mortar and other cementitious materials from deterioration by moisture and temperature. Store in a dry location or in waterproof containers. Keep containers tightly closed and away from open flames. Protect liquid components from freezing. Comply with manufacturer's recommendations for minimum and maximum temperature requirements for storage.

C. Restore any damage to site caused by storage, mixing, or construction work.

D. Store cementitious materials off the ground, under cover and in dry location.

E. Store aggregates where grading and other required characteristics can be maintained.

F. Protect mortar materials and stone accessories including metal items to prevent deterioration by corrosion and accumulation of dirt.

1.9 PROJECT CONDITIONS

A. Do not repoint mortar or repair masonry unless air temperatures are between 40° F (4°C) and 80°F (27°C) and will remain so for at least 48 hours after completion of work. During periods of questionable weather keep a log of work including air temperature and weather conditions, work started and completed per day and tests taken.

B. Prevent grout or mortar used in repointing and repair work from staining fae of surrounding masonry and other surfaces. Remove immediately grout and mortar in contact with exposed masonry and other surfaces.

C. Protect sills, ledges, and projections from mortar droppings.

D. Protection: Protect and maintain all work in a dry safe condition for the duration of the work.

1.10 COLD WEATHER PROTECTION

A. Do not perform any wet masonry work when temperature of surrounding area is below 40°F, or below 45°F and falling, or forecast by public news media to fall to or below 35°F within 24 hours without temporary heated enclosures or without heating materials or other precautions necessary to prevent freezing. Minimum temperature within enclosure shall be 40°F. Do not use masonry materials which are likely to contain frost. Do not use accelerating ingredients with any mortar. Mortar shall harden without freezing and with no damage from frost. Protect all work against freezing for not less than 48 hours after installation.

B. Do not lay masonry units that are cold, wet, or frozen. Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen setting beds.

C. Comply with requirements of international Masonry All-Weather Council's "Guide Specification for Cold-Weather Masonry Construction". Heat materials and provide temporary protection of completed portions of stone work.

1.11 HOT WEATHER PROTECTION

A. Protect masonry work in hot weather to prevent excessive evaporation of setting beds and grout. Provide artificial shade, wind breaks and use cooled materials as required. Use fresh mortar. Discard mortar that has stiffened due to hydration.

Part 2 – PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers:

1. For Mortar: SPEC MIX®, Inc.; Mendota Heights, MN; Web: www.specmix.com.
2. For Brick: K-F / Redland Brick, Inc.; East Windsor Hill, CT; Web: www.redlandbrick.com.
3. Owner approved equals.

2.2 MORTAR

A. Mortar shall be three parts clean sharp sand to one part portland cement and 15% hydrated lime by cement volume, conforming to ASTM C270-86B.

1. Remove a sample of existing mortar; evaluate existing composition prior to selecting new mortar.
2. Match existing mortar in composition, color and texture; do NOT use coloring agents (dyes).
3. Mortar Type: N.
4. Applicable Standards: ASTM C 91, ASTM C 144, ASTM C 150, ASTM C 207, ASTM C 270, ASTM C 387, ASTM C 476, ASTM C 595, ASTM C 780, ASTM C 1329, ACI 530.1, IMIAC.

2.3 BRICK

A. Use existing brick to the maximum extent possible. Where required, additional brick shall be fully compatible in size (8" x 3-5/8" x 2-1/2" – V.I.F.), color (V.I.F.), composition and texture with the existing brick found in the building.

2.4 ACCESSORY MATERIALS

A. Water: Clean and free from deleterious acids, alkalis, and organic matter.

B. Admixtures: Complying with ASTM 1384.

2.5 MORTAR AND GROUT MIXING

A. Thoroughly mix mortar ingredients in accordance with ASTM C270 in quantities needed for immediate use.

B. Mix grout in accordance with ASTM C94 of thoroughly mix grout ingredients in quantities needed for immediate use in accordance with ASTM C476 Fine or Coarse grout.

C. Mortar colors shall be chosen to match cleaned stone and mortar surfaces. Clean an 18" square area of wall at a location to be designated in the field by the Architect for use in color comparison.

D. Do not use anti-freeze compounds to lower the freezing point of grout.

E. The contractor shall review the water content and any required adjustments along with proposed products with the Architect. Contractor shall then submit a record mortar mix design along with product data sheets to the Architect for verification, review, and approval before beginning any mixing or installation.

2.6 MORTAR WASHDOWN CLEANER

A. For non-pigmented mortars, use equal or equivalent to "Sure Klean 600 Detergent" as manufactured by ProSoCo Corp. For pigmented mortars use equal or equivalent to "VanaTrol" as manufactured by ProSoCo Corp.

Part 3 – EXECUTION

3.1 EXAMINATION

A. Examine surfaces to be re-pointed and conditions under which the materials will be installed.

B. Identify all existing brick which may require replacement. Report to the Owner on any brick which exhibits damage prior to the start of construction.

C. Do not proceed with masonry work until surfaces and conditions comply with requirements indicated in referenced masonry installation standard and manufacturer's printed instructions.

3.2 PREPARATION

A. Where required rake out all existing mortar joints to a depth of at least 1".

B. Use hand tools; proceed with care to avoid damage to the existing brick.

C. All brick damaged during the course of the work under this contract shall be replaced at the Contractor's expense.

D. Prepare a sample section of the re-pointing work at least 24" high x 24" wide located on the [inconspicuous] face of the existing masonry for review by the Architect and Owner prior to execution of the work.

3.3 INSTALLATION

A. Mixing: As recommended by manufacturer.

B. Retempering:

1. Retemper mortar by adding additional mixing water only to replace water lost due to evaporation.
2. Do not retemper colored mortars.
3. Discard mortar 2.5 hours after initial mixing.

A. Install mortar into existing joints using care to avoid excess material on the faces of the bricks. Tool all joints to match existing joints at remaining faces of the chimney.

B. Colored Mortar: Consistency of appearance shall be maintained throughout the project.

3.3 CLEANING AND PROTECTION OF COMPLETED MASONRY WORK

A. As work proceeds and upon completion, remove excess mortar, smears and droppings. Clean adjacent and adjoining surface of marks arising out of execution of work in this Section.

B. Sweep up and remove daily sand, cleaning compounds and mixtures, dirt, debris and rubbish. Sweep or flush away nightly, all residual washed materials. Keep the premises neat and clean at all times.

C. After installation and pointing are completed, carefully clean all surfaces of all dirt, excess mortar, grout splatter, stains and/or other site incident defacements. Clean soiled surfaces using a non-acidic solution that will not harm brick or adjacent materials. Consult brick fabricators for acceptable cleaners. Do not use wire brushes, acid or other solutions which may cause discoloration. Use non-metallic tools in cleaning operation. Apply in accordance with cleaner manufacturer's recommendations.

D. Mechanically remove all loose mortar and concrete splatter with hand tools without scratching, gouging, or otherwise marring the existing substrate.

E. Clean brick following completion of work, and where specifically specified on the drawings.

F. Comply with applicable environmental laws and restrictions.

G. Protect installed work from damage due to subsequent construction activity on the site.

END OF SECTION

Section 04 23 13

VERTICAL GLASS UNIT MASONRY

Part 1 – GENERAL

1.1 INCLUDED IN THIS SECTION

A. Glass Block Units

B. Mortar

1.2 SCOPE OF WORK

A. The Work shall include all masonry work, the nature and quantities of which are detailed and described herein and on the contract drawings.

B. The masonry Contractor shall be responsible for coordinating and ensuring that all flashing and weep holes are installed.

1.3 RELATED SECTIONS

A. Section 02 25 19 — Existing Masonry Assessment

1.4 REFERENCES

A. ASTM C144, Spec. for Aggregate for Masonry

B. ASTM C150, Spec. for Portland Cement

C. ASTM E2010 and NFPA 257, Fire Test of Window Assemblies (equivalent to UL® 9)

D. ASTM C207, Spec. for Hydrated Lime for Masonry Purposes

E. ASTM C270, Spec. for Mortar for Unit Masonry

1.5 SUBMITTALS

A. Product Data

Submit two (2) copies of manufacturer's literature and two (2) copies of manufacturer's installation instructions.

B. Samples

1. Submit two (2) glass block units of each type specified, showing size, design and pattern of faces.
2. Submit representative samples of (panel reinforcing), (panel anchors), (expansion strips), and (sealant).

C. Test Reports —Fire Tests

Submit documents verifying glass block units are classified for a ¾, 1 or 1½-hour fire exposure according to ASTM E2010, Underwriters Laboratories of Canada CAN 4-S106-M80, UL® 9, or NFPA 257 "Fire Tests of Window Assemblies." All such glass block unit cartons shall carry appropriate UL® labels.

1.6 QUALITY CONTROL

A. Comply with all referenced standards for the products employed.

B. All masonry work shall be performed by individuals with more than five (5) years of well referenced experience with historic stone masonry restoration.

C. During periods of cold or questionable weather, keep a log of work including air temperatures and weather conditions, work started and completed per day, and tests taken. No work shall be done when the ambient temperature of the structure or the air is less than 45° F.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to site in manufacturer's original and unopened containers and packaging, bearing labels as to type and names of products and manufacturers.

B. Store unopened cartons of glass block in a clean, cool, dry area.Protect opened cartons of glass block against windblown rain or water run-off with tarpaulins or plastic covering.Comply with manufacturer's recommendations for minimum and maximum temperature requirements for storage.

C. Restore any damage to site caused by storage, mixing, or construction work.

1.8 PROJECT CONDITIONS

A. Do not install glass block unless air temperatures are between 40° F (4°C) and 80°F (27°C) and will remain so for at least 48 hours after completion of work. During periods of questionable weather keep a log of work including air temperature and weather conditions, work started and completed per day and tests taken.

B. Protection: Protect and maintain all work in a dry safe condition for the duration of the work.

Part 2 – PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers:

1. Pittsburgh Corning Corp.; Pittsburgh, PA; Web: www.**pittsburghcorning**.com/
2. Cincinnati Glass Block Company.; Cincinnati, OH; Web: www.cincinnatiglassblock.com
3. Owner approved equals.

2.2 GLASS BLOCK UNITS

A. Use existing glass block to the maximum extent possible. Where required, additional glass block shall be fully compatible in size (8" x 8" x 4" – V.I.F.), color (V.I.F.), composition and texture with the existing glass block found in the building.

2.3 MORTAR

A. Mortar shall be three parts clean sharp sand to one part portland cement and 15% hydrated lime by cement volume, conforming to ASTM C270-86B.

1. Remove a sample of existing mortar; evaluate existing composition prior to selecting new mortar.
2. Match existing mortar in composition, color and texture; do NOT use coloring agents (dyes).
3. Mortar Type: N.
4. Applicable Standards: ASTM C 91, ASTM C 144, ASTM C 150, ASTM C 207, ASTM C 270, ASTM C 387, ASTM C 476, ASTM C 595, ASTM C 780, ASTM C 1329, ACI 530.1, IMIAC.

2.4 ACCESSORY MATERIALS

A. Water: Clean and free from deleterious acids, alkalis, and organic matter.

B. Admixtures: Complying with ASTM 1384.

2.5 MORTAR AND GROUT MIXING

A. Thoroughly mix mortar ingredients in accordance with ASTM C270 in quantities needed for immediate use.

B. Mix grout in accordance with ASTM C94 of thoroughly mix grout ingredients in quantities needed for immediate use in accordance with ASTM C476 Fine or Coarse grout.

C. Mortar colors shall be chosen to match cleaned stone and mortar surfaces. Clean an 18" square area of wall at a location to be designated in the field by the Architect for use in color comparison.

D. Do not use anti-freeze compounds to lower the freezing point of grout.

E. The contractor shall review the water content and any required adjustments along with proposed products with the Architect. Contractor shall then submit a record mortar mix design along with product data sheets to the Architect for verification, review, and approval before beginning any mixing or installation.

2.6 MORTAR WASHDOWN CLEANER

A. For non-pigmented mortars, use equal or equivalent to "Sure Klean 600 Detergent" as manufactured by ProSoCo Corp. For pigmented mortars use equal or equivalent to "VanaTrol" as manufactured by ProSoCo Corp.

Part 3 – EXECUTION

3.1 EXAMINATION

A. Examine surfaces of all glass block and conditions under which the materials will be installed.

B. Identify all existing glass block which may require replacement. Report to the Owner on any glass block which exhibits damage prior to the start of construction.

C. Do not proceed with masonry work until surfaces and conditions comply with requirements indicated in referenced masonry installation standard and manufacturer's printed instructions.

3.2 PREPARATION

A. Verify that (channels), (panel anchors) have been provided at head and jambs for the purpose of providing panel anchorage within the opening.

B. Mix all mortar components to a consistency that is drier than mortar for ordinary masonry.

THE ARCHITECTS
Robert B. Hurd, AIA
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Hartford, CT 06106
Tel: 860-232-2707
Licensed in Connecticut
New York and Rhode Island

FACADE RESTORATION
34 PARK PLACE, VERNON, CT
FOR: TOWN OF VERNON

ALL CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS, AND DIMENSIONS BEFORE COMPLETING PRICING, ORDERING, FABRICATING AND/OR ASSEMBLING ANY AND ALL PARTS OF THE WORK.

SPECIFICATIONS

REVISIONS:

SCALE: AS NOTED

DATE: APRIL 29, 2016

Proj. No: 16101
Dwg. No:

A6.3

exposed skin areas promptly with water. If any mortar gets into the eyes, rinse immediately with water and get prompt medical attention.

3.3 INSTALLATION

A. Mixing: As recommended by manufacturer.

B. Retempering shall **not** be allowed.

C. Set a full mortar bed joint

D. Set block and maintain a uniform joint width of ¼ to 3/8 inch plus or minus 1/8 inch. All mortar joints must be full and not furrowed. Steel tools must not be used to tap blocks into position. (Place a rubber crutch tip on end of trowel to tap block into position.) Do not realign, tap or otherwise move block after initial placement.

3.4 CLEANING AND PROTECTION OF COMPLETED MASONRY WORK

A. Remove surplus mortar from the faces of the glass block at the time joints are struck or tooled. Mortar should be removed while it is still plastic using a clean, wet sponge or an ordinary household scrub brush with stiff bristles.

B. Do not use harsh cleaners, acids (of any strength), abrasives or alkaline materials while cleaning glass block. Never use a wire brush to remove mortar from glass block surfaces.

C. Final mortar removal is accomplished with a clean, wet sponge or cloth. Rinse sponge or cloth frequently in clean water to remove abrasive particles that could scratch glass surfaces. Allow any remaining film on the block to dry to a powder.

D. After all sealants, caulking, etc., have been applied, remove excess caulking materials with commercial solvents such as xylene, toluene, mineral spirits or naphtha and follow with normal wash and rinse. Be careful not to damage caulking by over generous application of strong solvents. Comply with solvent manufacturer's' printed directions on label for toxicity and flammability warnings.

END OF SECTION

Section 06 01 20

MAINTENANCE OF FINISH CARPENTRY

Part 1 — GENERAL

1.1 INCLUDED IN THIS SECTION

A. Cleaning of existing cornice.

1.2 RELATED SECTIONS

A. Section 02 25 26 — Existing Wood, Plastics, and Composites Assessment

B. Section 06 10 00 — Rough Carpentry

C. Section 06 20 00 — Finish Carpentry

1.3 REFERENCES

A. Comply with all similarly applicable demolition standards of the Connecticut State Building Code.

B. Comply with all applicable OSHA requirements.

1.4 SUBMITTALS

A. Manufacturer's product data and installation recommendation.

B. Materials Safety Data Sheets (MSDS) for all materials to be used.

C. Contractor Qualifications

1. The work specified herein and indicated on the Drawings shall be installed by a firm who can furnish supporting evidence of experience to perform this work and who has regularly been engaged in carpentry restoration and installation on a full time basis for a period of not less than 5 years.
2. Provide the name, address, architect, general contractor, and appropriate subcontractors with phone numbers and contact person for three buildings that the Contractor has worked on during the past 5 years that involved similar carpentry restoration/replacement.
3. Provide the name of each person who will be performing the Work, a summary of their work experience, and their employer's name, business address, and telephone number. Each person who will be performing the Work must provide supporting evidence of experience to perform this work and who has regularly been engaged in carpentry restoration on a full time basis for a period of not less than 5 years.

D. Cleaning Products and Procedures: For the general cleaning and for each staining type identified, submit the following package of information:

1. Product literature and manufacturer's recommendation for the carpentry.
2. Cleaning products and equipment.
3. Written procedures for proposed carpentry cleaning. Include procedures for protecting building occupants, pedestrians, and the work and for containing and disposing of effluent. Include information on product concentration, dwell time and application method.
4. Procedures are to be submitted both prior to mock-ups and prior to full cleaning.

1.5 MOCK-UPS

A. Working in conjunction with the related sections, construct mock-ups of the conditions listed below. Mock-ups must be constructed by scheduled installer. Coordinate mock-up location with Architect and Owner before constructing. Notify the Architect at least 48 hours before starting work on each mock-up. Do not proceed with any part of the work before completion of the review process for each appropriate mock-up.

1. Cleaning: Provide the following sample panels of proposed cleaning methods. Locations of mock-ups to be determined by Architect. For each cleaning mock-up, mask off the area to be cleaned and clearly identify the cleaning procedure used, including the product, dilution, dwell time, and any variations to the manufacturer's recommended procedure. Leave masking in place so that mock-up will determine procedures for each area of soiling including approximate concentration and dwell time.
   i. Atmospheric Staining (General Cleaning Area): 5 ft x 5 ft area.
   ii. Biological Staining: 2 ft x 2 ft area. (TBD if applicable)

B. The mock-ups will be used to establish both technical and aesthetic standards for the remainder of the project. Reconstruct the mock-ups as many times as required by the Architect at no additional cost to the Owner. The approved mock-up may become part of the finished work.

1.6 PROJECT CONDITIONS

A. Protection During cleaning: Protect persons, motor vehicles, construction site and surrounding buildings from injury resulting from carpentry cleaning work.

1. Protect all non-wood surfaces. Review all protective measurements with the Architect..
2. Prevent cleaning solutions from coming into contact with pedestrians, motor vehicles, plant materials, buildings, and other surfaces that could be injured by such contact.
3. Do not clean wood during winds of sufficient force to spread cleaning solutions to unprotected surfaces.
4. Dispose of run-off from cleaning operations by legal means and in a manner which prevents soil erosion, undermining of paving and foundations, and damage to adjacent landscaping.

Part 2 – PRODUCTS

2.1 CLEANING MATERIALS

A. Water: Clean, potable, non-staining, and free of oils, acids, alkalis, and organic matter.

B. Water spray apparatus: Pumps, backflow preventions, and misting unit capable of applying a constant spray rate set between 0.4 and 0.8 gal/sf/min.

C. Pressure wash unit: Unit capable of delivering water at a pressure between 150 psi and 250 psi; with a flow rate of 4 gal per min. Use 45° fan tip.

D. Application Brushes: For acid-based cleaners, use soft natural fiber (tampico) or wood brushes only. For other cleaners, use natural fiber or nylon brushes only. Do not use metal wire brushes on wood.

E. General Cleaning and Algae/Mildew Removal:

1. Wind-lock Corp., Leesport, PA.; Web www.wind-lock.com
   General Purpose Cleaner
2. Wind-lock Corp., Leesport, PA.; Web www.wind-lock.com
   Miracle Mildew Remover
3. Approved equal.

F. DO NOT USE solvent based cleaners (acetone, gasoline, ketones, mineral oils, or turpentine)

2.2 MILD DETERGENT WASH

A. Solution of 1 – 2 cups tri-sodium-phosphate (TSP) or TSP substitute per gallon of warm water

B. General Purpose Cleaner by Wind-lock Corp., or approved equal.

2.3 ALGAE/MILDEW REMOVAL

A. Solution of ½ to 1 quart household bleach to 1 gallon of water (may be added to TSP detergent solution for general cleaning)

B. Miracle Mildew Remover by Wind-lock Corp., or approved equal.

NOTE: Bleach is not required if algae or mildew are not present, but existing algae or mildew will recur if bleach solution is not used)

Part 3 – EXECUTION

3.1 GENERAL

A. Test method and material in an inconspicuous area to verify techniques and materials to be used.

B. Use the least aggressive means that produces effective results.

C. Use methods in compliance with applicable local regulations.

D. Protect adjacent construction, property and landscaping from overspray where cleaning solutions are used.

E. Follow applicable regulations for personal protective equipment when performing cleaning.

3.1 CLEANING

A. Examine all surfaces scheduled for cleaning, for roughness, contaminants, unsound structural substrates, or other conditions that may impair the application. Notify the Architect in writing of any such conditions; do not continue work until directed by Architect on how to proceed.

B. Ensure the building components not to be cleaned, adjacent persons, property and plant life are protected from all cleaning activities and wind drift. Mask all windows, ornamental fixtures, hardware, wood doors, or other surfaces not scheduled for cleaning.

C. Start work at the top of the building.

3.2 APPLICATION OF CLEANING SOLUTIONS

A. Generic mild detergent wash:

1. Apply mild detergent solution to the wall area to be cleaned.
2. Rinse thoroughly with clean water to remove all residue and surface contaminants.

B. Generic algae and mildew removal:

1. Apply algae and mildew removal solution and allow to soak for minimum 15 minutes. (Reapplication may be necessary for severe growth).
2. Use hand-scrubbing technique to remove streaking or other localized growth.
3. Rinse thoroughly using clean water to remove all residue and surface contaminants.

C. Hand-Scrubbing:

1. Use hand scrubbing technique for localized stubborn stains that are resistant to low pressure washing techniques or otherwise require special treatment.
2. Use soft to medium bristled brush
3. Avoid overly aggressive scrubbing which could damage the existing coatings.

D. Pressure Washing:

1. Use cool or warm water. **Do not use** steam or high temperature methods when existing coatings are to remain in-place
2. Use 45 degree fan tip
3. Determine distance from wall and pressure required, between 150 psi and 250 psi, to provide satisfactory results without damage to existing coatings or substrates based on test area.

END OF SECTION

Section 06 10 00

ROUGH CARPENTRY

Part 1 – GENERAL

1.1 INCLUDED IN THIS SECTION

A. Repair of deteriorated wood framing members.

1.2 RELATED SECTIONS

A. Section 02 25 26 — Existing Wood, Plastics, and Composites Assessment

1.3 REFERENCES

A. Comply with the following standard of specifications:

1. ALSC (American Lumber Standards Committee) - Softwood Lumber Standards.
2. ASTM (American Society of Testing and Materials) D245 -Standard Practice for Establishing Structural Grade and Related Allowable Properties of Visually Graded Lumber.
3. AWPA (American Wood Preservers Association) C1 - All Timber Products - Preservative Treatment by Pressure Process.
4. NELMA (Northeast Lumber Manufacturer's Association) - Grading Rules.
5. NFPA (National Forest Products Association).
6. NLGA (National Lumber Grades Authority).
7. NSLB (Northern Softwood Lumber Bureau).
8. SPIB (Southern Pine Inspection Bureau).
9. WCLIB (West Coast Lumber Inspection Bureau).
10. WWPA (Western Wood Products Association).
11. Timber Framer's Guild of North America - Recommended Standards Practice.

1.4 SUBMITTALS

A. Submit the following items to the Architect for review;

1. Grading certification for remanufactured and new timber products.

1.5 QUALITY CONTROL

A. Comply with all referenced standards for the products employed.

B. Coordinate times of Architects Inspection of work.

C. Contractor that performs carpentry work shall be a Timber Framer regularly engaged in repair and replacement of historic timber frame carpentry including traditional timber to timber joinery. Contractor shall demonstrate to the Owner's satisfaction that, within five (5) years, he or she has successfully performed and completed in a timely manner at the least three (3) projects similar in scope and type to this project.

Part 2 – PRODUCTS

2.1 DIMENSIONAL LUMBER

A. Lumber Grading Rules: NELMA, NFPA, RIS, SPIB, WCLIB, or WWPA.

B. Blocking: SPF Species, stud grade, size as per drawings, 19 percent maximum moisture content.

C. Pressure Treated Lumber (P/T) shall be Southern Yellow Pine #1 or #2, pressure preservative treated with a minimum retention of .25 pcf of ACQ. Moisture content in post-treated, to-be installed condition not exceed 19%.

Part 3 – EXECUTION

3.1 EXPOSURE OF EXISTING INTERIOR FRAMING

A. Where necessary, remove exterior moldings that cover members or areas designated to be removed or exposed. All molding shall be photo-documented in place and tagged by location and only reusable molding shall be safely stored in a dry, secure place on or off site for reinstallation.

B. Photo-document and schedule inspections with the Architect and protect opened areas with plastic following inspection but before beginning work.

3.2 INSTALLATION OF TIMBER FRAMING AND DIMENSIONAL LUMBER

A. Place horizontal members crown side up.

B. Provide tapered oak shims of at least ⅛" thickness as required for adjustment and to provide solid, firm contact between bearing surfaces where proper fit is not otherwise provided with existing members. Maximum allowable tolerance to be accommodated by shims shall be ⅜" or less.

C. Make all cut lines plumb and true, to within ⅛" of required dimension. Do not leave any splintered wood or checked end grain exposed to weather or soil.

D. Unless otherwise noted, nail all framing and blocking in accordance with the Connecticut State Building Code and industry standards.

E. Provide all framing in accordance with proper and standard practice, and al governing codes. Contractor shall be prepared to correct any unsuitable conditions per the direction of the Architect.

F. Inspect all existing framing and report all unsound conditions to the Architect before closing finishes or other work that would obscure inspection or repair/replacement of damaged items.

G. Wood to be handled and covered to prevent damage and moisture absorption from snow or rain.

END OF SECTION

Section 06 20 00

FINISH CARPENTRY

Part 1 – GENERAL

1.1 RELATED DOCUMENTS

A. All applicable provisions of the General Conditions and Division 1 shall apply to all work under this Section.

1.2 DESCRIPTION OF WORK

A. The extent of the finish carpentry shall be as specified herein and as shown on the drawings, including, but notnecessarily limited to the following major items:

1. Repair existing exterior wood window trim, where required.
2. Repeir existing wood cornice, where required.
3. Furnish all incidental work necessary for completion of the above.

1.3 RELATED WORK SPECIFIED IN OTHER SECTIONS

A. Section 02 25 26 – Existing Wood, Plastics, and Composites

B. Section 07 90 00 – Joint Protection

C. Section 08 51 00 – Wood Windows

D. Section 09 91 13 – Exterior Painting

1.4 SUBMITTALS

A. The Contractor shall submit shop drawings as necessary to show conformance with the existing conditions and/or these Specifications. Submittals shall show species, shapes, sizes, dimensions and details for construction.

B. Submit manufacturer's product literature.

1.5 GUARANTEE

A. The Contractor agrees that all manufacturers' guaranties/warranties applying to products supplied by and/or installed by the Contractor are extended to the Owner. The Contractor guaranties to perform all repairs due to material failures or faulty workmanship which occur within one (1) year of acceptance of completed work by the Owner.

Part 2 – PRODUCTS

2.1 MATERIALS

A. Wood consolidants shall be low-viscosity, two-part liquid epoxy with fungicide, LiquidWood as manufactured by Abatron, Inc., Kenosha, WI; ConServ 100 as manufactured by Housecraft Associates, Newton, NJ; or approved equal.

B. Wood fillers shall be two-part epoxy paste filler, WoodEpox as manufactured by Abatron, Inc., Kenosha, WI; ConServ 200 as manufactured by Housecraft Associates, Newton, NJ; or approved equal.

C. Replacement moldings and trim shall be cedar or other rot-resistant species compatible with existing materials; they shall be configured to match the existing moldings exactly, and they shall be sized to match the existing moldings exactly.

Part 3 – EXECUTION

3.1 PREPARATION

A. Where required by existing conditions, repair existing exterior trim and molding at windows using epoxy wood consolidants and/or wood fillers. All wood to be repaired shall be clean, dry and free of all extraneous matter.

B. Where required by existing conditions, replace existing exterior trim and molding at windows. New trim shall be configured and detailed to match the existing trim and molding and shall be installed in a manner which limits the visual impact of the repair.

3.2 EXECUTION

A. To repair damaged wood at the exterior, apply penetrating epoxy paste filler to existing wood in full accord with manufacturer's recommendations. .

B. All joints between new and existing wood and all joints at new wood shall be scarf-mitered, and shall be smooth and weather tight. All corners at the moldings shall be plain mitered.

C. Finish new and repaired wood trim in accord with Section 09 90 00 Painting.

END OF SECTION

Section 07 90 00

JOINT PROTECTION

Part 1 – GENERAL

1.1 RELATED DOCUMENTS

A. All applicable provisions of the General Conditions and Division 1 shall apply to all work under this Section.

1.2 DESCRIPTION OF WORK

A. The extent of the caulking and sealants shall be as specified herein and as shown on the drawings, including, but not necessarily limited to the following major items:

1. Furnish and install exterior caulk.
2. Furnish all incidental work necessary for completion of above.

1.3 RELATED SECTIONS

A. Section 60 20 00 – Finish Carpentry

B. Section 08 11 16 – Aluminum Doors and Frames

C. Section 08 41 13 – Aluminum-Framed Entrances and Storefronts

D. Section 08 51 00 – Wood Windows

E. Section 09 91 13 – Exterior Paint

1.4 REFERENCES

A. SSPC-SP 1 - Solvent Cleaning

B. SSPC-SP 2 - Hand Tool Cleaning

C. SSPC-SP 3 - Power Tool Cleaning

D. ASTM – C920, C834

E. TT-S-00230

1.5 SUBMITTALS

A. The Contractor shall submit shop drawings as necessary to show conformance with the existing conditions and/or these Specifications. Submittals shall show species, shapes, sizes, dimensions and details for construction.

B. Submit manufacturer's data sheets on each product to be used including 1) Product characteristics; 2) Surface preparation instructions and recommendations; 3) Primer requirements and finish specification; 4) Storage and handling requirements and recommendations; 5) Application methods; and 6) Cautions.

C. Submit a complete set of color chips that represent the full range of manufacturer's color samples available.

1.6 GUARANTEE

A. The Contractor agrees that all manufacturers' guaranties/warranties applying to products supplied by and/or installed by the Contractor are extended to the Owner. The Contractor guaranties to perform all repairs due to material failures or faulty workmanship which occur within one (1) year of acceptance of completed work by the Owner.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to the work site in manufacturer's unopened containers. Packaging shall bear the manufacturer's name, label, and the following list of information: 1) Product name, and type (description); 2) Application & use instructions; 3) Surface preparation; 4) VOC content; 5) Environmental issues; 6) Batch date; and 7) Color.

Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

B. Store materials in an area that is within the acceptable temperature range, per manufacturers instructions. Protect from freezing.

C. Handling: Maintain a clean, dry storage area, to prevent contamination or damage to the materials.

1.8 PROJECT CONDITIONS

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

Part 2 – PRODUCTS

2.1 MANUFACTURERS

A. Product shall be manufactured by the Sherwin-Williams Company, Cleveland, OH; or approved equal.

B. Product shall be manufactured by Sashco Inc., Brighton, CO; or approved equal.

C. When submitting request for substitution, provide complete product data, required under 1.5 Submittals above, for each substitute product.

2.2 MATERIALS

A. Wood: Use Sherwin-Williams Acrylic Latex SHER-MAX urethanized elastomeric sealant.

B. Brick: Use Sashco "Big Stretch" High-Performance Elastomeric Sealant.

C. Aluminum: Use Sashco "Big Stretch" High-Performance Elastomeric Sealant.

D. Equivalent approved by Architect.

2.3 MATERIALS - GENERAL REQUIREMENTS

A. Caulks and Sealants - General: Unless otherwise indicated, provide factory-mixed caulk and sealants. When required, mix sealants to correct consistency in accordance with manufacturer's instructions before application. Do not reduce, thin, or dilute coatings or add materials to sealants unless such procedure is specifically described in manufacturer's product instructions.

B. Primers: Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.

2.4 ACCESSORIES

A. Caulk Application Accessories: Provide all tooling devices, cleaning agents, cleaning cloths and clean-up materials required per manufactures specifications.

Part 3 – EXECUTION

3.1 EXAMINATION

A. Do not begin application of caulk or sealants until substrates have been properly prepared. Notify Architect of unsatisfactory conditions before proceeding.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

C. Proceed with work only after conditions have been corrected, and approved by all parties, otherwise application of caulks and sealants will be considered as an acceptance of surface conditions.

3.2 SURFACE PREPARATION

A. Clean all joints by removing any foreign matter or contaminants that would impede adhesion of the sealant to the building material. The surface must be dry and in sound condition. Remove oil, dust, dirt, loose rust, peeling paint or other contamination to ensure good adhesion.

B. Porous materials are usually treated by mechanical means and nonporous surfaces by a solvent wipe that is compatible with the building substrate being used.

Note: For porous surfaces, the use of detergent or soap & water is NOT recommended.

C. Priming: When required, apply a primer. Do **NOT** allow it to pool or puddle.

D. Install backup materials as required to ensure that the recommended depth is regulated when using the backup material.

THE ARCHITECTS
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Licensed in Connecticut
New York and Rhode Island

FACADE RESTORATION
34 PARK PLACE, VERNON, CT
FOR: TOWN OF VERNON

ALL CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS, AND DIMENSIONS BEFORE COMPLETING PRICING, ORDERING, FABRICATING AND/OR ASSEMBLING ANY AND ALL PARTS OF THE WORK.

SPECIFICATIONS

REVISIONS:

SCALE: AS NOTED
DATE: APRIL 29, 2016

Proj. No: 16101
Dwg. No:

A6.4

E. No exterior caulking should be done immediately after a rain, during foggy weather, when rain is predicted, or when the temperature is below 50°F, unless products are designed specifically for these conditions.

A. Methods: Exterior wood must be clean and dry. Caulk as soon as possible. Scrape, sand and spot prime knots and pitch streaks before a full priming coat is applied. Patch all nail holes and imperfections with a wood filler or putty and sand smooth.

3.3 INSTALLATION

A. Apply all caulks and sealants with manufacturer specifications in mind.
B. Do not apply to wet or damp surfaces.
C. Wait until wood is fully dry after rain or morning fog or dew.
D. Apply sealants using methods recommended by manufacturer.
E. Uniformly apply caulks and sealants without skips, voids or sags. Tool bead to a consistent,smooth surface.
F. The caulked surface must be inspected and approved by the Architect prior to painting.

3.4 PROTECTION

A. Protect finished caulk and sealants from damage until completion of project.
B. Touch-up damaged caulk and sealants after substantial completion, following manufacturer's recommendation for touch up or repair of damaged caulk and sealants. Repair any defects that will hinder the performance of the caulk and sealants.

END OF SECTION

Section 08 34 56

SECURITY GATES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. All applicable provisions of the General Conditions and Division 1 shall apply to all work under this Section.

1.2 DESCRIPTION OF WORK

A. The extent of the Work shall be as specified herein and as shown on the drawings, including, but not necessarily limited to the following major items:
   1. Fabrication and installation of new security gate as noted on the contract drawings.

1.4 REFERENCES

A. American Architectural Manufacturers Association (AAMA)
   a. AAMA 609/610, Cleaning and Maintenance Guide for Architecturally Finished Aluminum.
B. American Society for Testing and Materials International, (ASTM).
   a. ASTM E330, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.

1.5 SUBMITTALS

A. Submit manufacturer's installation instructions.
B. Indicate materials and profiles and provide full-size, scaled details of components for each type of door and frame.
C. Submit catalogue details for each type of door and frame illustrating profiles, dimensions and methods of assembly.
A. Product Data:
   1. Submit manufacturer's printed product literature, specifications and data sheets.
   2. Submit two copies of WHMIS MSDS Material Safety Data Sheets for door materials, adhesives and aluminum cleaner. Indicate VOC's for caulking materials during application and curing.

1.6 GUARANTEE

A. The Contractor agrees that all manufacturers' guaranties/warranties applying to products supplied by and/or installed by the Contractor are extended to the Owner. The Contractor guarantees to perform all repairs due to material failures or faulty workmanship which occur within one (1) year of acceptance of completed work by the Owner.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to site in manufacturer's original and unopened containers and packaging, bearing labels as to type and names of products and manufacturer.
B. Apply temporary protective coating to finished surfaces. Remove coating after erection. Do not use coatings that will become hard to remove or leave residue.
C. Leave protective covering in place until final cleaning of building.

PART 2 – PRODUCTS

2.1 MATERIALS

A. Aluminum extrusions: Aluminum Association alloy AA6063-T5 anodizing quality.
B. Steel reinforcement: to CAN/CSA-G40.20/G40.21, grade 300 W.
C. Fasteners: stainless steel, finished to match adjacent material.
D. Isolation coating: alkali resistant epoxy resin solution.
E. Metal Screen Panel: McNichols Aluminum 1 ½" square opening welded wire mesh, or approved equal.
F. Sealants: Section 07 90 00 – Joint Sealants.

2.2 ALUMINUM GATE

A. Construct gate with minimum wall thickness of 3/16"
B. Door stiles: 5" wide
C. Top rail: 5" tall
D. Bottom rail: 10" tall
E. Center rail: 5" tall
F. Top panels: McNichols Aluminum 1 ½" square opening welded wire mesh, or approved equal.
G. Bottom panels: ¾" CDX plywood panel with ⅛" aluminum sheet on each side.
H. Reinforce mechanically-joined corners of gate to produce sturdy gate unit.

2.3 ALUMINUM FRAMES

A. Construct frames of aluminum extrusions with minimum wall thickness of 3/16"
B. Frame members sized as shown on the contract drawings.
C. Panels: ¾" CDX plywood panel with ⅛" aluminum sheet on each side.

2.4 FABRICATION

A. Gate and framing to be by same manufacturer.
B. Fabricate gate and frames to profiles and maximum face sizes as shown.
C. Provide structural steel reinforcement as required.
D. Fit joints tightly and secure mechanically.
E. Conceal fastenings.
F. Isolate aluminum from direct contact with dissimilar metals, concrete and masonry.

PART 3 – EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

A. Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions and data sheets.

3.2 INSTALLATION

A. Set frames plumb, square, level at correct elevation in alignment with adjacent work.
B. Anchor securely.
C. Install gate and hardware in accordance with hardware templates and manufacturer's instructions.
D. Adjust operable parts for correct function.
E. Make allowances for deflection of structure to ensure that structural loads are not transmitted to frames.

3.3 CLEANING

A. Perform cleaning of aluminum components in accordance with AAMA 609.1 - Voluntary Guide Specification for Cleaning and Maintenance of Architectural Anodized Aluminum.
B. Perform cleaning as soon as possible after installation to remove construction and accumulated environmental dirt.
C. Clean aluminum with damp rag and approved non-abrasive cleaner.
D. Remove traces of primer, caulking, epoxy and filler materials; clean doors and frames.
E. Clean glass and glazing materials with approved non-abrasive cleaner.
F. Upon completion of installation, remove surplus materials, trash, tools and equipment barriers.

3.4 PROTECTION

A. Protect installed products and components from damage during construction.
B. Repair damage to adjacent materials caused by aluminum door and frame installation.

END OF SECTION

Section 08 41 13

ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

Part 1 – GENERAL

1.1 RELATED DOCUMENTS

A. All applicable provisions of the General Conditions and Division 1 shall apply to all work under this Section.

1.2 DESCRIPTION OF WORK

A. The extent of the Work shall be as specified herein and as shown on the drawings, including, but not necessarily limited to the following major items:
   1. Installation of new aluminum storefront.
   2. Installation of new entry doors.
   3. Furnish all incidental work necessary for completion of above.

1.3 RELATED SECTIONS

A. Section 02 25 23 – Existing Metals Assessment
B. Section 02 41 00 – Selective Demolition
C. Section 07 90 00 – Joint Protection

1.4 REFERENCES

A. ASTM International (ASTM):
   1. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
   2. ASTM C 864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers.
   3. ASTM E 283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
   4. ASTM E 330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
   5. ASTM E 331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
   6. ASTM E 783 - Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors.
   7. ASTM E 1105 - Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference.
B. American Architectural Manufacturers Association (AAMA):
   1. AAMA 501 - Methods of Test for Exterior Walls.
   2. AAMA 503 - Voluntary Specification for Field Testing of Newly Installed Storefronts, Curtain Walls and Sloped Glazing Systems.
   3. AAMA 611 - Voluntary Specification for Anodized Architectural Aluminum.
   4. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
   5. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
C. American National Standards Institute: ANSI Z97.1 - Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test
D. Consumer Product Safety Commission (CPSC): 16 CFR 1201 - Safety Standard For Architectural Glazing Materials.
E. Glass Association of North America (GANA): Glazing Manual.

1.5 SUBMITTALS

A. Submit manufacturer's installation instructions.
B. Indicate materials and profiles and provide full-size, scaled details of components.
C. Submit catalogue details for storefront illustrating profiles, dimensions and methods of assembly.
A. Product Data:
   1. Submit manufacturer's printed product literature, specifications and data sheets.
   2. Submit two copies of WHMIS MSDS Material Safety Data Sheets for door materials, adhesives and aluminum cleaner. Indicate VOC's for caulking materials during application and curing.

1.6 QUALITY CONTROL

A. Comply with all referenced standards for the products employed.
B. Coordinate times of Architects Inspection of work.
C. Contractor that is selected to perform work shall be a regularly engaged in work similar to that required for this project. Contractor shall demonstrate to the Owner's satisfaction that, within five (5) years, he or she has successfully performed and completed in a timely manner at the least three (3) projects similar in scope and type to this project.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to site in manufacturer's original and unopened containers and packaging, bearing labels as to type and names of products and manufacturer.
B. Store materials in an area that is within the acceptable temperature range, per manufacturer's instructions. Protect from damage.
C. Handling: Maintain a clean, dry storage area, to prevent contamination or damage to the materials.

1.8 GUARANTEE

A. The Contractor agrees that all manufacturers' guaranties/warranties applying to products supplied by and/or installed by the Contractor are extended to the Owner. The Contractor guarantees to perform all repairs due to material failures or faulty workmanship which occur within one (1) year of acceptance of completed work by the Owner.

1.9 PROJECT CONDITIONS

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

Part 2 – PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer's:
   1. Cardinal Commercial Products; Louisville, KY; Web: www.cardcompro.com
   2. Kawneer; Norcross, GA; Web: www.kawneer.com
   3. Approved Equal
   4. When submitting request for substitution, provide complete product data, required under 1.5 Submittals above, for each substitute product.

2.2 ALUMINUM STOREFRONT SYSTEM

A. System Description: Performance Requirements
   1. Air Infiltration:
      i. The test specimen shall be tested in accordance with ASTM E 283.
      ii. Air infiltration rate shall not exceed 0.06 cfm/ft2 at a (static) air pressure differential of 6.24 PSF.
   2. Water Resistance, (Static):
      i. The test specimen shall be tested in accordance with ASTM E 331 for (outside) or (inside). There shall be no leakage at a minimum static air pressure differential of 10 PSF as defined in AAMA 501.
   3. Uniform Load:
      i. A static air design load of 60 PSF shall be applied in the positive and negative direction in accordance with ASTM E 330.
      ii. There shall be no deflection in excess of L/175 of the span of any framing member at design load.
      iii. At structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2 percent of their clear spans shall occur.
B. Materials: Aluminum for storefront and components.
   1. Material Standard: Extruded Aluminum, ASTM B 221, 6063-T6 alloy and temper.
   2. Member Wall Thickness: Each framing member shall have a wall thickness sufficient to meet the specified structural requirements.
   3. Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of storefront framing members are nominal and in compliance with AA Aluminum Standards and Data.
C. Accessories:
   1. Fasteners: Where exposed, shall be Stainless Steel.
   2. Gaskets: Glazing gaskets shall comply with ASTM C 864 and be extruded of silicone compatible EPDM rubber that provides for silicone adhesion.
   3. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.
D. Fabrication
   1. Fabricate components per manufacturer's installation instructions and with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
   2. Accurately fit and secure joints and corners. Make joints flush, hairline and weatherproof.
   3. Arrange fasteners and attachments to conceal from view.
E. Aluminum Storefront System:
   1. Glazing: 1 inch thick insulated glazing.
   2. Framing Member Profile: As shown on contract drawings.

2.3 ENTRY DOORS

A. Doors and framing to be by same manufacturer.
B. Fabricate doors and frames to profiles and maximum face sizes as shown.
C. Provide structural steel reinforcement as required.
D. Fit joints tightly and secure mechanically.
E. Conceal fastenings.
F. Isolate aluminum from direct contact with dissimilar metals, concrete and masonry.
G. Construct entry doors with minimum wall thickness of 3/16"
   1. Door stiles: 4 ½" wide
   2. Top rail: 4 ½" tall
   3. Bottom rail: 9" tall
   4. Glazing: 1 inch thick insulated glazing.
   5. Reinforce mechanically-joined corners of entry to produce a sturdy unit.

Part 3 – EXECUTION

3.1 EXAMINATION AND PREPARATION

A. Inspect and prepare substrates and openings for compliance with anchorage requirements using the methods recommended by the manufacturer for achieving best result for the substrates and openings under project conditions.
   1. Verify openings are sized to receive specified system and sill plate is level in accordance with manufacturer's acceptable tolerances.
B. Do not proceed with installation until substrates and opening have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances and conditions that will be detrimental to the installation are corrected. Commencement of installation constitutes acceptance of conditions.

3.2 INSTALLATION OF STOREFRONT

A. Install products in accordance with manufacturer's instructions.
B. General: Install storefront systems plumb, level, and true to line, without warp or rack of frames with manufacturer's prescribed tolerances and installation instructions. Provide support and anchor in place.
   1. Dissimilar Materials: Provide separation of aluminum materials from sources of corrosion or electrolytic action contact points.
   2. Glazing: Glass shall held in place with extruded EPDM glazing gaskets on both sides of the glass.
   3. Water Drainage: Water deflectors shall be installed at each end of intermediate horizontal allowing infiltrated water to drain down the vertical member's glazing pocket into a full height subsill receptor where it weeps to the exterior through weep slots backed with baffles to reduce air infiltration.
C. Related Products Installation Requirements:
   a. Perimeter Sealants: Refer to Section 07 09 00 — Joint Protection

3.3 INSTALLATION OF ENTRY DOORS

A. Set frames plumb, square, level at correct elevation in alignment with adjacent work.
B. Anchor securely.
C. Install doors and hardware in accordance with hardware templates and manufacturer's instructions.
D. Adjust operable parts for correct function.
E. Make allowances for deflection of structure to ensure that structural loads are not transmitted to frames.

3.4 FIELD QUALITY CONTROL

A. Field Tests: Architect shall select storefront units to be tested as soon as a representative portion of the project has been installed, glazed, perimeter caulked and cured. Conduct tests for air infiltration and water penetration with manufacturer's representative present. Tests not meeting specified performance requirements and units having deficiencies must be corrected as part of the contract amount.
   a. Testing: Testing shall be performed per AAMA 503 by a qualified independent testing agency. Refer to Division Testing Section for payment of testing and testing requirements.
      i. Air Infiltration Tests: Conduct tests in accordance with ASTM E 783. Allowable air infiltration shall not exceed 1.5 times the amount indicated in the performance requirements or 0.09 cfm/ft2, which, ever is greater.
      ii. Water Infiltration Tests: Conduct tests in accordance with ASTM E 1105. No uncontrolled water leakage is permitted when tested at a static test pressure of two-thirds the specified water penetration pressure but not less than 8 PSF.
B. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions.

3.5 PROTECTION AND CLEANING

A. Protect installed product's finish surfaces from damage during construction. Protect aluminum storefront system from damage from grinding and polishing compounds, plaster, lime, acid, cement, or other harmful contaminants.
B. Repair or replace damaged installed products. Installed products are to be cleaned in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

END OF SECTION

Section 08 51 00

WOOD WINDOWS

Part 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Clad Ultimate Double Hung window complete with hardware, glazing, weather strip, insect screen, simulated divided lite, and standard or specified anchors, trim, and attachments
B. All applicable provisions of the General Conditions and Division 1 shall apply to all work under this Section.

1.2 DESCRIPTION OF WORK

A. The extent of the finish carpentry shall be as specified herein and as shown on the drawings, including, but not necessarily limited to the following major items:
   1. Replace existing wood windows.
   2. Furnish all incidental work necessary for completion of the above.

1.3 RELATED SECTIONS

A. Section 02 25 26 – Existing Wood, Plastics, and Composites
B. Section 06 10 00 – Rough Carpentry
C. Section 06 20 00 – Finish Carpentry
D. Section 07 90 00 – Joint Protection

1.4 REFERENCES

A. American Society for Testing Materials (ASTM):
   1. E283: Standard Test method for Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors
   2. E330: Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls and Door by Uniform Static Air Pressure Difference
   3. E547: Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential
   4. E2190: Specification for Sealed Insulated Glass Units
   5. C1036: Standard Specification for Flat Glass
   6. E2068: Standard Test Method for Determination of Operating Force of Sliding Windows and Doors
B. American Architectural Manufacturer's Association/Window and Door Manufacturer's Association (AAMA/WDMA/CSA):
   1. AAMA/WDMA/CSA 101/I.S.2/A440-08, North American Fenestration, Standard/Specification for window, doors and skylights
   2. AAMA/WDMA/CSA 101/I.S.2/A440-11,NAFS 2011 – North American Fenestration, Standard/Specification for windows, doors and skylights
C. WDMA I.S.4: Industry Standard for Water Repellant Preservative Treatment for Millwork
D. Window and Door Manufacturer's Association (WDMA): 101/I.S.2 WDMA Hallmark Certification Program
E. Sealed Insulating Glass Manufacturer's Association/Insulating Glass Certification Council (SIGMA/IGCC)
F. American Architectural Manufacturer's Association (AAMA): 2605: Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels

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FACADE RESTORATION
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FOR: TOWN OF VERNON

ALL CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS, AND DIMENSIONS BEFORE COMPLETING PRICING, ORDERING, FABRICATING AND/OR ASSEMBLING ANY AND ALL PARTS OF THE WORK.

SPECIFICATIONS

REVISIONS:

SCALE: AS NOTED

DATE: APRIL 29, 2016

Proj. No: 16101
Dwg. No:

A6.5

G. National Fenestration rating Council (NFRC):
1. 101: Procedure for Determining Fenestration Product thermal Properties
2. 200: Procedure for Determining Solar Heat Gain Coefficients at Normal Incidence

H. Window Covering Manufacturer's Association
1. A100.1: Standard for safety of corded covering products

1.5 SUBMITTALS

A. Shop Drawings: Submit shop drawings.

B. Product Data: Submit catalog data.

C. Samples:
1. Submit corner section.
2. Include glazing system, quality of construction and specified finish

D. Quality Control Submittals: Certificates: submit manufacturer's certification indicating compliance with specified performance and design requirement.

1.6 QUALITY ASSURANCE

A. Requirements: consult local code for IBC [International Building Code] and IRC [International Residential Code] adoption year and pertinent revisions for information on:
1. Egress, emergency escape and rescue requirements
2. Basement window requirements
3. Windows fall prevention and/or window opening control device requirements

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver in original packaging and protect from weather

B. Prime and seal wood surfaces, including to be concealed by wall construction, if more than thirty (30) days will expire between delivery and installation

C. Store window units in an upright position in a clean and dry storage area above ground to protect from weather

1.8 GUARANTEE

A. Clear insulating glass with stainless steel spacers is warranted against seal failure caused by manufacturing defects and resulting in visible obstruction through the glass for twenty (20) years from the original date of purchase. Glass is warranted against stress cracks caused by manufacturing defects from ten (10) years from the original date of purchase.

B. Factory applied interior finish is warranted to be free from finish defects for a period of five (5) years from the original date of purchase.

C. Hardware and other non-glass components are warranted to be free from manufacturing defects for ten (10) years from the original date of purchase.

D. The Contractor agrees that all manufacturers' guaranties/warranties applying to products supplied by and/or installed by the Contractor are extended to the Owner. The Contractor guaranties to perform all repairs due to material failures or faulty workmanship which occur within one (1) year of acceptance of completed work by the Owner.

Part 2 – PRODUCTS

2.1 MANUFACTURER

A. MARVIN Windows; Warroad, MN; Web: www.marvin.com

2.2 FRAME DESCRIPTION

A. Interior: Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine veneer; optional non finger-jointed Douglas Fir or finger-jointed core with non finger-jointed Douglas Fir veneer; optional non finger-jointed White Oak or finger-jointed with non finger-jointed Oak veneer; non finger-jointed Cherry or finger- jointed core with Cherry veneer; non finger-jointed Mahogany or finger-jointed core with non finger-jointed Mahogany veneer; non finger-jointed Vertical Grain Douglas Fir or finger-jointed with non finger-jointed Vertical Grain Douglas Fir veneer.
1. Kiln-dried to moisture content no greater than 12 percent at the time of fabrication
2. Water repellant, preservative treated in accordance with ANSI/WDMA I.S.4.

B. Frame exterior aluminum clad with 0.050" (1.3mm) thick extruded aluminum.

C. Frame thickness: 1 11/32" (34mm) head jamb, 1 11/32" (34mm) composite side jamb.

D. Frame depth: Frame depth had an overall 5 21/32" jamb (144mm). 4 9/16" (116mm) jamb depth from the nailing fin plane to the interior face of the frame for new construction.

E. Frame bevel: 8 degree

F. Sill: 1 7/16" (37mm)

2.3 SASH DESCRIPTION

A. Interior: Non Finger-Jointed Pine or finger-jointed core with non finger-jointed Pine veneer; optional non finger-jointed Douglas Fir or finger-jointed core with non finger-jointed Douglas Fir veneer; optional non finger-jointed White Oak or finger-jointed with non finger-jointed Oak veneer; non finger-jointed Cherry or finger-jointed core with Cherry veneer; non finger-jointed Mahogany or finger-jointed core with non finger-jointed Mahogany veneer; non finger-jointed Vertical Grain Douglas Fir or finger-jointed with non finger-jointed Vertical Grain Douglas Fir veneer.
1. Kiln-dried to moisture content no greater than twelve (12) percent at the time of fabrication.
2. Water repellant preservative treated with accordance with WDMA I.S.4.

B. Sash exterior aluminum clad with 0.050" (1.3mm) thick extruded aluminum.

C. Sash thickness: 1 9/16" (40mm) for operating and transom units, 2" (51mm) for picture units.

D. Operable sash tilt to interior for cleaning or removal.

E. Interior Sash Sticking
1. Standard is: Ovolo
2. Optional Interior Square sticking

2.4 GLAZING

A. Select quality complying with ASTM C1036. Insulating glass SIGMA/IGCC certified to performance level CBA when tested in accordance with ASTM E2190.

B. Glazing method: Insulating glass

C. Glazing seal: Silicone glazed

D. Glass Type: Clear, Bronze, Gray, Reflective Bronze, Tempered, Obscure, Laminated, Low E2 with or without Argon, Low E3 with or without Argon, Low E1 with or without Argon

E. Tri-pane glass(TG): Tripane Low E1 Argon, Tripane Low E2 Argon, Tripane Low E3 Argon, Tripane Low E1 Krypton/Argon, Tripane Low E2 Krypton/Argon, Tripane Low E3 Krypton/Argon
1. This glass type is dependent on sash thickness and availability
2. Consult ADM or OMS for availability

2.5 FINISH

A. Exterior: Aluminum clad. Fluoropolymer modified acrylic topcoat applied over primer. Meets AAMA 2605 requirements.
1. Aluminum clad color to be selected by Owner.

B. Interior Finish options:

C. Prime: Factory-applied enamel primer. Available on Pine product only.

D. Painted Interior color to be selected by Owner.

E. Factory-applied water-borne acrylic enamel clear coat. Applied in two separate coats with light sanding between coats. Available on Pine, Mahogany, mixed grain Douglas Fir, Vertical Grain Douglas Fir, Cherry, White Oak.

2.6 HARDWARE

A. Balance System: Coil spring block and tackle with nylon cord and fiber filled nylon clutch

B. Jamb Carrier: Vinyl extrusion with wood inserts
a. Color: beige

C. Lock: High pressure zinc die-cast cam lock and keeper
a. Finish: Phosphate coated and electrostatically painted Satin Taupe, Bronze, White, Brass, Satin Chrome, Satin Nickel, Antique Brass, Oil Rubbed Bronze

D. Check rail guide

2.7 WEATHER STRIP

A. Continuous, leaf weather strip at head jamb, parting stop, dual durometer bulb at check rail, foam bulb type dual durometer weather strip on vertical sash edge; dual durometer bulb weather strip at bottom rail

2.8 Insect Screen

A. Factory-installed half screen. Half screen covers sash opening.
1. Screen Mesh: Charcoal fiberglass, charcoal aluminum wire, black aluminum wire, bright aluminum wire, bright bronze wire, Hi-Tran fiberglass mesh

2.9 Simulated Divided Lites (SDL)

A. 5/8" (16mm) wide, 7/8" (22mm) wide, 1 1/8" (29mm), 1 ¾" (44mm), 2 13/32" (61mm) wide with or w/out internal spacer bar.

B. Exterior muntins: 0.055" (1.4mm) thick extruded aluminum.

C. Interior muntins: Pine, Mixed Grain Douglas Fir, White Oak, Cherry, Mahogany, Vertical Grain Douglas Fir.

D. Muntins adhere to glass with closed-cell copolymer acrylic foam tape.

E. Sticking:
1. Standard: Ovolo
2. Optional Interior Square sticking

F. Patterns: Rectangular, diamond, custom lite cut

G. Finish – exterior matched exterior aluminum clad colors, interior matches' interior wood species and color

2.10 Accessories and Trim

A. Installation Accessories:
1. Factory installed vinyl nailing/drip cap
2. Installation brackets: 6 3/8" (162mm), 9 3/8" (283mm), 15 3/8" (390mm)
3. Masonry brackets: 6" (152mm), 10" (254mm)

B. Exterior Wood Moulding:
1. Profile: Brick Mould Casing, Flat Casing, Stucco Brick Mould, Stucco Flat Casing, Special Casing 3 (SPC3), Special Casing 7 (SPC7), Special Casing 21 (SPC21), Special Casing 18 (SPC18), Special Casing 26 (SPC26)
2. Finish: Match exterior frame finish

C. Cedar Dress:
1. Sill
2. Subsill
3. Blind stops and jamb covers
4. Mull covers
5. Brick Mould and Flat Casing
6. Available on Pine frames
7. Bare cedar

Part 3 - EXECUTION

3.1 EXAMINATION

A. Verification of Condition: Before installation, verify openings are plumb, square and of proper dimension. Report frame defects or unsuitable conditions to the General contractor before proceeding.

B. Acceptance of Condition: Beginning on installation confirms acceptance of existing conditions.

3.2 INSTALLATION

A. Assemble and install window/door unit(s) according to manufacturer's instruction and reviewed shop drawing.

B. Install sealant and related backing materials at perimeter of unit or assembly in accordance with Section 07 90 00 Joint Protection. Do not use expansive foam sealant.

C. Install accessory items as required.

D. Use finish nails to apply wood trim and mouldings.

3.3 CLEANING AND PROTECTION

A. Protect installed product's finish surfaces from damage during construction. Protect wood windows from damage from grinding and polishing compounds, plaster, lime, acid, cement, or other harmful contaminants.

B. Repair or replace damaged installed products. Installed products are to be cleaned in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

END OF SECTION

Section 09 91 13
EXTERIOR PAINTING

Part 1 – GENERAL

1.1 RELATED DOCUMENTS

A. All applicable provisions of the General Conditions and Division 1 shall apply to all work under this Section.

1.2 DESCRIPTION OF WORK

A. The extent of the painting work shall be as specified herein and as shown on the drawings, including, but not necessarily limited to the following major items:
1. Furnish and install primer-sealer and finish paint to the exterior of all new window trim.
2. Furnish and install primer-sealer and finish paint to the exterior of existing cornice.
3. Furnish all incidental work necessary for completion of above.

1.3 RELATED SECTIONS

A. Section 06 20 00 – Finish Carpentry

B. Section 08 51 00 – Wood Windows

C. Section 07 90 00 – Joint Protection

1. 4 SUBMITTALS

A. The Contractor shall submit shop drawings as necessary to show conformance with the existing conditions and/or these Specifications. Submittals shall show species, shapes, sizes, dimensions and details for construction.

B. Submit manufacturer's product literature for all paint materials.

C. Submit full manufacturer's color samples for color selection by the Owner.

1.5 GUARANTEE

A. The Contractor agrees that all manufacturers' guaranties/warranties applying to products supplied by and/or installed by the Contractor are extended to the Owner. The Contractor guaranties to perform all repairs due to material failures or faulty workmanship which occur within one (1) year of acceptance of completed work by the Owner.

Part 2 – PRODUCTS

2.1 MATERIALS

A. Paint products shall be manufactured by Benjamin Moore Co., Montvale, NJ; ICI Dulux Paint Centers, Cleveland, OH; Pittsburgh Paints, Pittsburgh, PA; or Pratt & Lambert Paints, Edison, NJ. No substitutes will be accepted.

B. When submitting request for substitution, provide complete product data, required under 1.4 Submittals above, for each substitute product.

C. Provide paint products as follows:
1. Window Trim - Exterior Face:
– Acrylic latex exterior primer, color to match finish color.
– Acrylic latex house and trim paint, medium gloss finish, color to be selected by Owner.
2. Window Sash - Interior Face:
– Acrylic latex primer-sealer, color to match finish color.
– Acrylic latex interior enamel, semi-gloss finish, color to match existing.

Part 3 – EXECUTION

3.1 PREPARATION

A. Assure that all surfaces to be painted are clean, dry and free of all dirt, oil, grease or other extraneous materials prior to painting to assure proper adhesion of the paint film. Lightly sand all stripped and/or unprimed wood and remove all grit prior to painting.

B. Mask all surfaces adjacent to those scheduled for painting. Protect all finishes not scheduled for painting from damage during performance of the work.

3.2 EXECUTION

A. Apply paint at the exterior face of window sash. Use one coat of exterior primer-sealer and two coats house and trim paint at the exterior face of the window sash. Apply paint using brushes suited to the task.

B. Apply paint at the interior face of window sash. Use one coat of primer-sealer and two coats of semi-gloss enamel at the interior face of the sash. Apply paint using brushes suited to the task.

C. Apply paint at the exterior face of metals. Use one coat of rust inhibiting primer and two coats of medium gloss rust inhibiting paint. Apply paint using brushes and rollers suited to the task.

END OF SECTION

Section 10 73 13
AWNINGS

Part 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Section 60 20 00 – Finish Carpentry

1.2 SCOPE OF WORK

A. The extent of the Work shall be as specified herein and as shown on the drawings, including, but not necessarily limited to the following major items:
1. Installation of new fabric awnings with metal awning frame systems.
2. Furnish all incidental work necessary for completion of the above.

1.3 REFERENCES

A. Structural welding code steel AWS D1.1

B. Structural welding code steel AWS D1.2

C. ASTM International (ASTM):
1. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

D. Comply with all similarly applicable demolition standards of the Connecticut State Building Code.

E. Comply with all applicable OSHA requirements.

1.4 SUBMITTALS

A. Shop Drawings: Show shop and erection details, including cut, copes, connections holes and welds. Show welds, both shop and field, by the current recommended symbols of the AWS. Do not fabricate members until shop drawings have been reviewed.

B. Include engineering calculations showing wind load requirements of the local Building Department and include fastener and erection details, signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 QUALITY ASSURANCE

A. Have been in continuous operation as a professional fabric awning manufacturer for a minimum of five (5) years prior to this contract

B. Hold a valid general contractor's license for a minimum of five (5) years.

C. Welder Qualifications: The personnel manufacturing the metal awning frames must certified welders.

D. Provide written welding procedure specifications.

E. OSHA 10 Hour Construction Industry Certified Training.

F. OSHA Fall Protection Training.

G. Job site installation crew must include one CPR trained member on the job site at all times of the installation.

H. The installation crews must have a copy of the awning company's Code of Safety practices at the job site during times of installation.

I. Hold daily Safety Tail Gate Meetings before start of installation work

J. When forklifts are used at the job site, the operator must be Fork Lift Operation Trained.

1.6 GUARANTEE

A. Warrant frame materials and workmanship against defects for a period of one (1) year from date of substantial completion of the Work.

B. Warrant fabric materials and workmanship against defects for a minimum period of five (5) years, on a prorated basis, from the date of substantial completion of the work and/or offer the same warranty offered by the fabric mill that manufactured or supplied the fabric.

C. The Contractor agrees that all manufacturers' guaranties/warranties applying to products supplied by and/or installed by the Contractor are extended to the Owner. The Contractor guaranties to perform all repairs due to material failures or faulty workmanship which occur within one (1) year of acceptance of completed work by the Owner.

1.7 PROJECT CONDITIONS

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

Part 2 – PRODUCTS

2.1 AWNING MANUFACTURERS

A. Acceptable Manufacturer's:
1. Manchester Awning and Sign; Manchester, CT; Web: www.manchesterawning.com
2. Signs by Vision; Brookfield, CT; Web: www.signsbyvision.com
3. Approved Equal
4. When submitting request for substitution, provide complete product data, required under 1.4 Submittals above, for each substitute product.

2.2 AWNINGS

A. Awning shapes:
1. Standard awning with sides

B. Fabric: Sunbrella® 100 percent acrylic fiber, color as selected by Owner, manufactured by Glen Raven Mills or other exterior grade fabric awning material that carries a minimum five (5) year manufacturer's warranty.

C. Frames: Minimum 1-inch square 16GA galvanized steel ASTM A 500 tubing or 1" square .125 ASTM B 221 aluminum tubing, welding to AWS standards with welds ground smooth. Frames designed for wind loads, snow loads and seismic requirements as required by structural engineering requirements. All corners are to be mitered or completely welded to AWS standards.

D. Metal welding: All joints must be mitered or completely welded to AWS standards, ground smooth, primed and painted.

E. Use Eide Aluminum Awning Rail molding to attach fabric cover to head bar

F. .Anchors: Anchoring hardware shall be galvanized, zinc-coated 3/8" diameter or greater.

G. Caulking: Acrylic latex or silicone sealant at head bar and wall junction.

H. Use aluminum side molding to attach material to head bars.

I. Sewing thread, must be Gore Tenara® brand or equal

2.3 FABRICATION

A. Fabricate awning and frames in strict accordance with the reviewed shop drawings, written welding procedure specifications and the reference standards.

Part 3 – EXECUTION

3.1 EXAMINATION AND PREPARATION

A. Inspect and prepare walls for compliance with anchorage requirements using the methods recommended by the manufacturer for achieving best result for the substrates and wall under project conditions.

B. Do not proceed with installation until walls have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances and conditions that will be detrimental to the installation are corrected. Commencement of installation constitutes acceptance of conditions.

3.2 INSTALLATION

A. Minimum five (5) years awning installation experience required by the awning contractor.

B. Buildings are to be field measured by the awning contractor prior to awning manufacture and awning installation.

C. Install awnings and frames in strict accordance with the Drawings and the reviewed shop drawings, and provide appropriate building code requirements and aligned and plumb.

D. Welding procedures and operation shall comply with the referenced standard. Welding electrodes shall comply with ASTM A 233, E-70 Series. Grind smooth exposed welds; finish welds to the inside.

E. Installation firm must hold a current contractor's license.

3.3 PROTECTION AND CLEANING

A. Protect installed product's finish surfaces from damage during construction. Protect from damage from grinding and polishing compounds, plaster, lime, acid, cement, or other harmful contaminants.

B. Repair or replace damaged installed products. Installed products are to be cleaned in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

END OF SECTION

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