

ADDENDUM #2

Project: Lyman B. Goff Middle School Window Replacement

Architect: Wessling Architects, 350 Granite Street, Suite 1103, Braintree, MA 02184

Architect Project Number: 22081

Date of Addendum: January 6, 2023

The attention of Bidders submitting proposals for the Lyman B. Goff Middle School Window Replacement Bid Documents is called to the following changes to the Bidding Contract Documents dated December 12, 2022, as prepared by Wessling Architects. The items set forth therein below, whether of revision, omission, addition, substitution or clarification are all to be included as changes to Information to Bidders, the Conditions of the Contract, Specifications and Drawings of the Contract.

The number of this Addendum (Number 2) must be entered in the appropriate spaces provided on the Bid Form.

DRAWINGS:

2023.01.06 – 22081 Goff Middle School – G-001 General Reference Sheet_Addendum #2
2023.01.06 – 22081 Goff Middle School – A-101 First Floor Plan_Addendum #2
2023.01.06 – 22081 Goff Middle School – A-102 Second Floor Plan_Addendum #2
2023.01.06 – 22081 Goff Middle School – A-103 Third Floor Plan_Addendum #2
2023.01.06 – 22081 Goff Middle School – A-501 New Single Hung Window Details_Addendum #2
2023.01.06 – 22081 Goff Middle School – A-502 New Inswing Awning Window Details_Addendum #2

SPECIFICATIONS:

ADD 1-01 Document 00 10 00 – BID/SOLICITATION INFORMATION:

1.0 Bid/Solicitation Information:

MODIFIED: Dates have been updated.

Requests for Information during the Bidding Period will be accepted until 5:00 p.m. on **Wednesday, January 11th, 2023.**

RFP Submission Deadline has been extended to **Wednesday, January 18th, 2023**, at 3:00 P.M.

ADD 1-02 Document 00 10 00 – BID/SOLICITATION INFORMATION:

11.0 Bid Form:

ADD: Section 1.02 ALLOWANCES/UNIT PRICES

11. Allow cost to replace existing damaged laminate sills with new Corian sills. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. **Provide unit price per square foot.** This allowance is for work beyond that shown in the drawings.

\$ _____

Cost for 800 square feet	In words	Per S.F.
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ADD 1-03 Section 01 22 00 – UNIT PRICES: ADD: Unit Price No. 8: Repair damaged plaster walls and ceilings (beyond that required for window reinstallation as detailed). Remove damaged plaster back to sound framing. **Install new steel mesh and plaster to match existing.**

- ADD 1-04 Section 01 22 00 – UNIT PRICES: ADD: Unit Price No. 11: Replace existing damaged laminate sills with new Corian sills. Unit of Measurement: **Square Foot of sill.** Base Bid Allowance to include: **800 square feet.**
- ADD 1-05 Drawing Sheet G-001 GENERAL REFERENCE SHEET:
MODIFIED: INTERIORS SUMMARY OF WORK
ADD: FURNISH AND **INSTALL NEW STEEL MESH AND PLASTER TO MATCH EXISTING AT ALL WINDOW OPENINGS AND AREAS OF DETRIORATED / WATER DAMAGED PLASTER. PAINT OT MATCH EXISTING.**
- ADD 1-06 Drawing Sheet G-001 GENERAL REFERENCE SHEET:
MODIFIED: Note modified in Summary of Work:
REFER TO THE ASBESTOS REMOVAL SPECIFICATION PROVIDED BY EMERY ENVIRONMENTAL ASSOCIATES FOR ABATEMENT SCOPE OF WORK.
- ADD 1-07 Drawing Sheet G-001 GENERAL REFERENCE SHEET:
MODIFIED: Unit Price 11.
ADD: UNIT PRICE OF MEASUREMENT: **SQUARE FOOT OF SILL.**
BASE BID ALLOWANCE TO INCLUDE: **800 SQUARE FEET.**
- ADD 1-08 Drawing Sheet A-101 FIRST FLOOR PLAN
MODIFIED: Phases modified to match new phases on G-002 Site Plan.
- ADD 1-09 Drawing Sheet A-102 SECOND FLOOR PLAN
MODIFIED: **NOTE: TYPICAL PROFILE OF EXISTING LAMINATE / NEW CORIAN SILL. ASSUME 24" +/- MAX. DEPTH. DEPTH WILL VARY WINDOW TO WINDOW.**
MODIFIED: Phases modified to match new phases on G-002 Site Plan.
- ADD 1-10 Drawing Sheet A-103 THIRD FLOOR PLAN
MODIFIED: **NOTE: TYPICAL PROFILE OF EXISTING LAMINATE / NEW CORIAN SILL. ASSUME 24" +/- MAX. DEPTH. DEPTH WILL VARY WINDOW TO WINDOW.**
MODIFIED: Phases modified to match new phases on G-002 Site Plan.
- ADD 1-11 Drawing Sheet A-501 New Single Hung Window Details
MODIFIED: **REPLACE EXISTING DAMAGED LAMINATE SILLS WITH NEW CORIAN SILLS. ASSUME 24" MAX. DEPTH. DEPTH WILL VARY WINDOW TO WINDOW.**
- ADD 1-12 Drawing Sheet A-502 New Inswing Awning Window Details
MODIFIED: **REPLACE EXISTING DAMAGED LAMINATE SILLS WITH NEW CORIAN SILLS. ASSUME 24" MAX. DEPTH. DEPTH WILL VARY WINDOW TO WINDOW.**

QUESTIONS AND COMMENTS:

1. **Question:** The plan notes to remove the plaster around the interior surround of the windows. The plaster is brown coat plaster on wire mesh with a corner bead that is integral to the return. If we remove this plaster it will need to be rebuilt with steel mesh and plaster.

Answer: Install new steel mesh and plaster to match existing at all window openings.

2. **Question:** The window sill issue needs to be addressed more concisely. The sills are different widths everywhere and need to be cut into the profiles of the windows. The locations where the previous mechanical contractor built lower walls is much wider than the original sills. How would we provide the unit pricing for this when all the details are different?

Answer: The unit pricing has been modified from linear foot to square foot. Please provide unit pricing for square foot of Corian sills. Assume 24" maximum depth typical. Depth will vary window to window. Refer to Sheets A-102, A-103, A-501 and A-502.

3. **Question:** Can you also clarify the degree of temporary enclosures required where the windows are removed? Is it to be plywood or plastic, etc.?

Answer: Plywood is to be used for temporary enclosures on the First Floor. Plastic or abatement scrim is to be used on the Second and Third Floors.

4. Refer to the Asbestos Abatement Plan from Emery Environmental Associates attached for scope of work noted within.
5. Refer to current Project Documents including Bid Set, Addendum #1, and Addendum #2.

Attachment A: Asbestos Removal Specification from Emery Environmental Associates

Attachment B: 2023.01.06 – 22081 Goff Middle School – Revised Written Specifications_Addendum #2

Attachment C: 2023.01.06 – 22081 Goff Middle School – Revised Drawings_Addendum #2

END OF ADDENDUM #2

e m e r y

Environmental Associates

PO Box – E * Pawtucket, RI 02861 * Office (401)-727-4941 *
Email: emeryenvironmental@icloud.com

ASBESTOS REMOVAL SPECIFICATION

PROJECT:

2023 – 2024 WINDOW REPLACEMENT PROJECT

LOCATION:

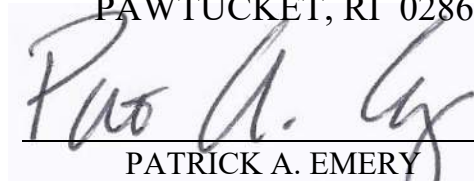
PAWTUCKET SCHOOL DEPARTMENT
LYMAN B. GOFF MIDDLE SCHOOL
974 NEWPORT AVENUE
PAWTUCKET, RI 02861

CLIENT:

MR. CHRIS SPIEGEL
COLLIERS PROJECT LEADERS
72 PINE STREET
PROVIDENCE, RI 02903

REPORT PREPARED BY:

MR. PATRICK A. EMERY
EMERY ENVIRONMENTAL ASSOCIATES
P.O. BOX - E
PAWTUCKET, RI 02861



DATE: 12.27.2022

PATRICK A. EMERY
RIDOH ASBESTOS PROJECT DESIGNER; APD0505

EEA PROJECT #: 221213-A

Environmental Consulting and Mitigation Contractors
Lead Paint * Asbestos * Mold * Indoor Air Quality

TABLE OF CONTENTS

***APPENDIX – A: ASBESTOS ABATEMENT SPECIFICATION /
RIDOH ASB-16, ASB-16A & ASB-16B ASBESTOS
ABATEMENT APPLICATION FORMS***

APPENDIX – B: ANALYTICAL SAMPLE RESULTS

APPENDIX – C: ASBESTOS CONSULTANT LICENSURE

APPENDIX – D: ASBESTOS TESTING LABORATORY LICENSURE

APPENDIX – E: ASBESTOS PROJECT DRAWING(S)

APPENDIX – A:

ASBESTOS ABATEMENT SPECIFICATION

Facility: **LYMAN B. GOFF MIDDLE SCHOOL / EXTERIOR WINDOW REPLACEMENT PROJECT**

Address: **974 NEWPORT AVENUE**

City/Town: **PAWTUCKET** ZIP: **02861** Amendment/Phase No.: _____

Abatement Plan Written By: **PATRICK A. EMERY** Certification No.: **APD00505**

Summary of specific waivers/variances being requested: **SEE ATTACHMENTS #4, #6 (AWP) & #7 - ENCLOSED**

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Division of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

1. Building Owner's Name:

PAWTUCKET SCHOOL DEPARTMENT

3. Building Owner's Mailing Address and Telephone Number:

Street: **286 MAIN STREET**

2. Application Prepared By:

MR. PATRICK A. EMERY

City/Town: **PAWTUCKET**

Zip: **02860**

R.I. Certification : **APD-00505**

Telephone No.: **401-729-6300**

(Area Code, No., Ext.)

Telephone No.: **(401)-727-4941**
(Area Code, No., Ext.)

4. Person to be contacted regarding this application:

Name: **MR. PATRICK EMERY**

Telephone No.: **401-727-4941**

(Area Code, No., Ext.)

5. Location where abatement work will be performed:

Name: (if applicable) **LYMAN B. GOFF MIDDLE SCHOOL**

Street: **974 NEWPORT AVENUE**

City/Town: **PAWTUCKET** ZIP: **02861**

6. Is this application being submitted in response to a "Notice of Requirement to Submit an Asbestos Abatement Plan"?

() YES (**X**) NO

If yes, what is the due date for submittal of Abatement Plan? _____
(Mo.) (Day) (Yr.)

Evaluation Number on the Notice: _____

7. Contractor who will be performing abatement work (if selected):

Name: **TO BE SELECTED** R.I. License No.: LAC- _____

8. Estimated Starting Date of Abatement Work: 8 18 2023
(Month) (Day) (Year)

9. Estimated Completion Date of Abatement Work: 8 31 2024
(Month) (Day) (Year)

10. Type of Asbestos Abatement: (Check all that apply)

☐ Removal ☐ Enclosure

☐ Encapsulation ☐ Demolition

☐ Operations and Maintenance Only

☒ Other: (Specify) AWP

11. Type of Building: ☒ **School**
☐ Privately Owned Building
☐ Publicly Owned Building
☐ Residence
☐ Other: (Specify) _____

12. Building Access: ☒ **Public Access ($\geq 25\%$ of Building Area)**
☐ Limited Public Access ($< 25\%$ of Building Area)
☐ No Public Access

13. Bulk Sample Collection and Analysis:

A. Person collecting bulk samples:

Name: PATRICK A. EMERY R.I. Certification No.: AI00505

B. Sampling Methodology:

☒ EPA AHERA Sampling Requirements (40 CFR 763.86).

☐ EPA's Asbestos Containing Material in School Buildings: A Guidance Document (EPA-450/2-78-014) or
Guidance for Controlling Asbestos Containing Materials - 1985 Edition (EPA-560/5-85-024).

☐ Other (Specify) _____

C. Laboratory performing the analysis of the bulk samples:

Name: EMSL ANALYTICAL, INC. R.I. Certification No.: PLM00139

D. Analytical Methodology:

☒ EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples (PLM method only).

☐ Other (Specify) _____

14. Pre-Abatement Air Sample Collection and Analysis: **NOT APPLICABLE**

A. Person collecting pre-abatement air samples:

Name: _____ Affiliation: _____

B. Laboratory performing analysis of pre-abatement air samples:

Name: _____ R.I. Certification No.: AAL- _____

C. Methodology used in the collection and analysis of pre-abatement samples:

() NIOSH Method 7400 (Most Current Revision)

() OSHA 29 CFR 1926.58 - Appendix A & B

() Other (Specify) _____

15. A. Indicate how the regulated asbestos containing material (RACM) will be removed from the abatement site. If a hauler or broker will be used to transport the RACM to a disposal site, they must also be identified.

TO BE PROVIDED BY CONTRACTOR

B. Provide the name and location of the authorized asbestos waste facility to which the removed material will be transferred for disposal (if known).

TO BE PROVIDED BY CONTRACTOR

16. Person designated as compliance monitor for abatement work. **(NOT REQUIRED)**

Name: _____

Affiliation: **EMERY ENVIRONMENTAL ASSOCIATES**

17. In-Process & Clearance Air Sampling: **(SEE ATTACHMENT #1)**

A. Describe on an attachment the type, number and location of air samples that will be collected outside the work area during the abatement project.

B. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded outside the work area during the abatement project.

C. Describe on an attachment the type, number and location of air samples that will be collected as part of the final clearance testing.

D. Describe on an attachment the plan of action to be followed if the Indoor Non-Occupational Air Exposure Standard for Asbestos (0.01 fibers per cubic centimeter) is exceeded during final clearance testing.

18. A separate and fully completed Form ASB-16A must be submitted for each area to be abated. List below the entry in Item 1 from each attached ASB-16A.


ASBESTOS CONTROL AREA #1 / EXTERIOR - NORTH, WEST, EAST AND SOUTH ELEVATIONS (PHASE - 1 / EXTERIOR WINDOW REPLACEMENT PROJECT).

ASBESTOS CONTROL AREA #2 / EXTERIOR - NORTH, SOUTH & EAST ELEVATIONS (PHASE - 2 / EXTERIOR WINDOW REPLACEMENT PROJECT)

NOTE: SEE PROJECT DRAWINGS – ATTACHED / APPENDIX - E

CONSULTANT CERTIFICATION

19. I certify that this plan was prepared by me and I am responsible for its content.

Signature:  Date: 12 27 2022
(Month) (Day) (Year)
Affiliation: Emery Environmental Associates

20. ASBESTOS ABATEMENT PLAN APPLICATION FEE:

() Operations & Maintenance Only	\$ 75
() Up to One (1) NESHAP Unit	\$ 75
() Between One (1) & Ten (10) NESHAP Units	\$ 300
() Between Ten (10) & Fifty (50) NESHAP Units	\$ 600
(X) Over Fifty (50) NESHAP Units	\$ 900
() AMENDMENT FEE	\$ 150

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Division of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: LYMAN B. GOFF MIDDLE SCHOOL
974 NEWPORT AVENUE; PAWTUCKET, RI 02861

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(1) Area Location/Identification (Room Name / No., Evaluation Number, etc.):

ASBESTOS CONTROL AREA #1 / EXTERIOR - NORTH, SOUTH, EAST & WEST ELEVATIONS (PHASE - 1 / EXTERIOR WINDOW REPLACEMENT PROJECT). SEE ATTACHMENT #2 & ATTACHED WESSLING ARCHITECTS DRAWINGS: G-002, A-101, A-102, A-103, AD-202, AD-203, AD-204, A-202, A-203 A-204, AD-501, AD-502; FOR EXACT LOCATIONS / SCOPE OF WORK)

(2) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (**NOTE:** All laboratory reports must include the name of the building(s) and the location(s) of the sample(s)).

SEE ATTACHMENT #2

(3) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend, which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. If the location of the decontamination chamber is known, it should be so indicated on the appropriate drawing(s).

ASBESTOS CONTROL AREA #1 / EXTERIOR - NORTH, SOUTH, EAST & WEST ELEVATIONS (PHASE - 1 / EXTERIOR WINDOW REPLACEMENT PROJECT). SEE ATTACHMENT #2 & ATTACHED WESSLING ARCHITECTS DRAWINGS: G-002, A-101, A-102, A-103, AD-202, AD-203, AD-204, A-202, A-203 A-204, AD-501, AD-502; FOR EXACT LOCATIONS / SCOPE OF WORK)

APPENDIX - E (ATTACHED)

(4) **PROPOSED REMEDIES:**

A) Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

SEE ATTACHMENT #3

(4) **PROPOSED REMEDIES: (Cont.)**

B) Will any portion of this area be abated by use of B.8 work procedures?

() YES (X) NO

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 (REMOVAL): _____

B.8.2 & B.8.4 (ENCAPSULATION): _____

B.8.2 & B.8.5 (ENCLOSURE): _____

B.8.6 (DEMOLITION): _____

B.8.7 (GLOVEBAG): _____

B.8.8 (ASPHALT ROOFING): _____

C) Are you requesting any waivers to the above selected B.8 procedures for any of the abatement activities in this area?

(X) YES () NO

If Yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

ATTACHMENT #4

D) Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

(X) YES () NO

If Yes, attach a detailed description of the alternative procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

ATTACHMENT #6

E) Will any **accessible** RACM remain in this area after abatement?

(X) YES () NO

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

All remaining ACM within the exterior envelope of the structure at the completion of the project shall be maintained by the building owner's LEA in accordance with a site-specific O&M plan as developed by the building owner.

AGENCY USE ONLY

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

Department of Health

Division of Occupational & Radiological Health

APPLICATION FOR APPROVAL OF AN ASBESTOS ABATEMENT PLAN

SUPPLEMENTAL INFORMATION: AREA DESCRIPTION AND PROPOSED REMEDY

BUILDING LOCATION: LYMAN B. GOFF MIDDLE SCHOOL
974 NEWPORT AVENUE; PAWTUCKET, RI 02861

INSTRUCTIONS: All items on this form must be addressed. All references to attachments must be clearly identified. All attachments must be marked with the specific item numbers on this form to which they pertain.

(1) Area Location/Identification (Room Name / No., Evaluation Number, etc.):

ASBESTOS CONTROL AREA #2 / EXTERIOR - NORTH, SOUTH, EAST ELEVATIONS (PHASE - 2 / EXTERIOR WINDOW REPLACEMENT PROJECT). SEE ATTACHMENT #2 & ATTACHED WESSLING ARCHITECTS DRAWINGS: G-002, A-101, A-102, A-103, AD-201, AD-202, AD-203, AD-204, A-201, A-202, A-203 A-204, AD-501, AD-502; FOR EXACT LOCATIONS / SCOPE OF WORK)

(2) Attach a description of each type (e.g. pipe, ceiling, etc.) of regulated asbestos containing material (RACM) in this area, including condition, location, quantity and asbestos content. Attach a copy of the laboratory report(s) for all samples. (**NOTE:** All laboratory reports must include the name of the building(s) and the location(s) of the sample(s)).

SEE ATTACHMENT #2

(3) Attach a current scale drawing of this area, showing direction of North and East, which has been clearly annotated to show the type, location and quantity of all RACM in this area. This drawing must include a legend, which acts as a guide to the scale, symbols and nomenclature used in the drawing. If a master plan or multiple drawings are provided, indicate the specific location(s) and drawing number(s) which depict this area. If the location of the decontamination chamber is known, it should be so indicated on the appropriate drawing(s).

ASBESTOS CONTROL AREA #2 / EXTERIOR - NORTH, SOUTH, EAST ELEVATIONS (PHASE - 2 / EXTERIOR WINDOW REPLACEMENT PROJECT). SEE ATTACHMENT #2 & ATTACHED WESSLING ARCHITECTS DRAWINGS: G-002, A-101, A-102, A-103, AD-201, AD-202, AD-203, AD-204, A-201, A-202, A-203 A-204, AD-501, AD-502; FOR EXACT LOCATIONS / SCOPE OF WORK)

APPENDIX - E (ATTACHED)

(4) **PROPOSED REMEDIES:**

A) Attach a description of the interim Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

SEE ATTACHMENT #3

(4) **PROPOSED REMEDIES:** (Cont.)

B) Will any portion of this area be abated by use of B.8 work procedures?

() YES (X) NO

If Yes, indicate below which RACM in this area will be abated by use of the following B.8 work procedures:

B.8.2 & B.8.3 (REMOVAL): _____

B.8.2 & B.8.4 (ENCAPSULATION): _____

B.8.2 & B.8.5 (ENCLOSURE): _____

B.8.6 (DEMOLITION): _____

B.8.7 (GLOVEBAG): _____

B.8.8 (ASPHALT ROOFING): _____

C) Are you requesting any waivers to the above selected B.8 procedures for any of the abatement activities in this area?

(X) YES () NO

If Yes, attach a detailed description of the waivers requested you are proposing to utilize. All items must be keyed to the specific section(s) of the regulations for which waivers are requested.

ATTACHMENT #4

D) Are you proposing alternative procedures under B.11 for any of the abatement activities in this area?

(X) YES () NO

If Yes, attach a detailed description of the alternative procedures requested you are proposing to utilize. Alternate procedures must include a justification for not following specific section(s) of the regulations and be as protective of public health.

ATTACHMENT #6 & ATTACHMENT #7

E) Will any **accessible** RACM remain in this area after abatement?

(X) YES () NO

If Yes, attach a description of the RACM that will remain and the details of the on-going Operations and Maintenance Plan that will be implemented in accordance with C.1.2(b).

All remaining ACM within the exterior envelope of the structure at the completion of the project shall be maintained by the building owner's LEA in accordance with a site-specific O&M plan as developed by the building owner.

AGENCY USE ONLY

ATTACHMENT #1

IN-PROCESS AIR MONITORING / EXTERIOR / ASBESTOS CONTROL AREAS – #1 & #2:

During the scheduled abatement operations, the building owner's asbestos consultant will collect air sample(s) outside the asbestos control area, periodically for the duration of the asbestos removal project. The compliance air samples shall be collected at random locations adjacent to the control areas (i.e., control area barriers or where the project representative determines, during the performance of the project.

If there is a deviation in proper procedures on the part of the asbestos abatement contractor during the set-up, the removal of the final clean up, the selected project monitor shall be notified immediately. These deviations include inadequate on-site paperwork, deviations in outlined work procedures, or if compliance air sampling outside the work area indicate fiber concentrations in excess of 0.01 f/cc, the on-site project monitor shall determine the extent of the contamination, and the asbestos abatement contractor shall be responsible for extending containment / control area to include the containment and initiating the clean-up.

FINAL VISUAL INSPECTION REQUIREMENTS / EXTERIOR / ASBESTOS CONTROL AREAS – #1 & #2:

A final visual inspection of each SEPARATE asbestos abatement work area(s) / ELEVATION shall be performed by the owners asbestos consultant (EMERY ENVIRONMENTAL ASSOC.) prior to the removal of any work area demarcation (i.e. engineering controls) or critical barriers. These area(s) shall include all horizontal and vertical surfaces within the exterior asbestos abatement work area(s) – I.E.: EACH SEPARATE WINDOW AND/OR DOOR ROUGH OPENING(S). In addition, the building owner's asbestos consultant shall review all personal air sample results collected during the performance of the project. Upon a review of the air sample results and visual inspection(s) - the building owner's asbestos consultant shall determine the following:

If the personal air sample results are below 0.1 f/cc (TWA) as determined by an eight-hour time weighted average, and the ambient air samples collected at the limits of the asbestos control area are below 0.01 f/cc (as applicable) and the area has been cleaned of all ACM / PACM asbestos containing building materials and visually inspected and approved by the building owner's asbestos consultant (EMERY ENVIRONMENTAL ASSOC.), the area will be considered a non-hazard and the control area barriers may be torn down and occupied by personnel without protective equipment as required by 29 CFR 1926.1101.

However, If the personal air samples are determined to be in excess of 0.1 f/cc OSHA asbestos PEL, or the area is determined to contain asbestos debris by a RIDOH licensed asbestos inspector, the contractor shall be required to continue restricted access to the area, re-clean the area via wet methods and HEPA vacuuming. This process shall be repeated until the air is visually clean of all ACM debris.

NOTE #1: The asbestos contractor must submit personal air samples as collected during the performance of the project (Samples must be collected in compliance with OSHA 29CFR1926.1101 and analyzed by a RIDOH certified laboratory). Final results must be forwarded to Emery Environmental Assoc. and the building owner prior to the request for final visual.

P# 221213-A

Lyman B. Goff Middle School; Pawtucket, RI

2023-2024 Window Replacement Project / Asbestos Abatement Specification

e m e r y
Environmental Associates

NOTE #2: As part of the final contract fee, the selected asbestos contractor and/or GC shall be required to provide an ariel manlift for the owner, for the purpose of site inspection(s) and to determine the completion of work, if staging is not constructed and/or installed in areas of the Phase – 1 or Phase – 2 (as defined by Wessling Architects drawing G-002) work is in progress, and / or at the location where the work is completed.

In addition - The asbestos contractor shall be required to provide a qualified (certified) operator to operate the ariel manlift and shall assist the building owner with the final inspection process. The lift (rental) and the personnel to operate the ariel manlift shall be provided as part of the contract value and shall not be grounds for a change order and an individual chargeable fee to the project.

ATTACHMENT #2

CHART OF ACM:

CONTROL AREA # 1 / PHASE 1 WINDOW REPLACEMENT PROJECT			
LOCATION	ACM QUANTITY	TYPE / DESCRIPTION OF ACM MATERIAL TO BE REMOVED.	ASBESTOS CONTENT
<p>PHASE – 1 PROJECT: Exterior – First Floor, Second Floor & Third Floor Areas @ North, South & West Elevations – Window(s) #:, #079, #080, #081, #082, #083, #084, #085, #086, #087, #088, #089, #090, #091, #092, #093, #094, #095, #096, #097, #098, #099, #100, #101, #102, #103, #104, #105, #106, #107, #108, #109, #110, #111, #112, #113, #114, #115, #116, #117, #118, #119, #120, #121, #122, #123, #124, #125, #126, #127, #128, #129, #130, #131, #132, #133, #134, #135, #136, #137, #138, #139, #140, #141, #155, #156, #157, #171, #181, #182, #183, #184, #185, #186, #187, #188, #189, #190, #191, #192, #193, #194, #195, #196, #197, #198, #199, #200, #201, #202, #203, #204, #205, #206, #207, #221, #222, #223, #237, #238, #239, #251, #252, #256, #257, #258, #259, #260, #261, #262, #263, #264, #265, #266, #267, #268, #269, #270, #271, #272, #273, #274, #275.</p> <p>Window location(s) / identification(s) are defined on the attached Wessling Architects project Drawings G-002, A-101, A-102, A-103, AD-202, AD-203, AD-204, A-202, A-203 A-204, AD-501, AD-502.</p>	<p>*5,881 Square Feet / 123 Window Rough Openings</p>	<p>Scope of Removal Work shall be defined as removal of any/all building materials including but not limited to: Caulk(s), Backer Rods, Steel / Metal - Window Sash(s) and all associated glazing(s), window bedding(s) and caulks, Wood Blocking / framing and Assoc. Caulks, Glass Block, Metal Flashing and Any/All mastics as applied to steel lintels above window opening(s), Any/all Masonry used to fill window rough openings and any associated caulks and glues – as required to facilitate the installation of new window system(s).</p> <p>Removal shall be conducted in accordance with any/all work requirements as defined in the attached ASB-16A form for this work area and all additional work requirements as defined by Attachments #1 - #6 of this specification.</p> <p>All work operations must be completed as an asbestos response action by the building owners selected asbestos contractor.</p>	<p>PACM + 3% Chrysotile</p>

ATTACHMENT #2

CHART OF ACM:

CONTROL AREA # 2 / PHASE 2 WINDOW REPLACEMENT PROJECT			
LOCATION	ACM QUANTITY	TYPE / DESCRIPTION OF ACM MATERIAL TO BE REMOVED.	ASBESTOS CONTENT
PHASE – 2 PROJECT: Exterior – First Floor, Second Floor & Third Floor Areas @ North, South, East & West Elevations – Window's #001, #002, #003, #004, #005, #006, #007, #008, #009, #010, #011, #012, #013, #014, #015, #016, #017, #018, #019, #020, #021, #022, #023, #024, #025, #026, #027, #028, #029, #030, #031, #032, #033, #034, #035, #036, #037, #038, #039, #040, #041, #042, #043, #044, #045, #046, #047, #048, #049, #050, #051, #052, #053, #054, #055, #056, #057, #058, #059, #060, #061, #062, #063, #064, #065, #066, #067, #068, #069, #070, #071, #072, #073, #074, #075, #076, #077, #078, #142, #143, #144, #145, #146, #147, #148, #149, #150, #151, #152, #153, #154, #158, #159, #160, #161, #162, #163, #164, #165, #166, #167, #168, #169, #170, #172, #173, #174, #175, #176, #177, #178, #179, #180, #208, #209, #210, #211, #212, #213, #214, #215, #216, #217, #218, #219, #220, #240, #241, #242, #243, #244, #245, #246, #247, #248, #253, #254, #224, #225, #226, #227, #228, #229, #230, #231, #232, #233, #234, #235, #236, #240, #241, #242, #243, #244, #245, #246, #247, #248, #249, #250. Doors #101, #102 & #103. (Window & Door location(s) / identification(s) are defined on the attached Wessling Architects project Drawings G-002, A-101, A-102, A-103, AD-201, AD-202, AD-203, AD-204, A-201, A-202, A-203 A-204, AD-501, AD-502)	*7,067 Square Feet / 152 Window Rough Openings *6 Doors / 3 Door Rough Openings	Scope of Removal Work shall be defined as removal of any/all building materials including but not limited to: Caulk(s), Backer Rods, Steel / Metal - Window Sash(s) and all associated glazing(s), window bedding(s) and caulks, Wood Blocking / framing and Assoc. Caulks, Glass Block, Metal Flashing and Any/All mastics as applied to steel lintels above window opening(s), Any/all Masonry used to fill window rough openings and any associated caulks and glues – as required to facilitate the installation of new window system(s). Removal shall be conducted in accordance with any/all work requirements as defined in the attached ASB-16A form for this work area and all additional work requirements as defined by Attachments #1 - #7 of this specification. All work operations must be completed as an asbestos response action by the building owners selected asbestos contractor.	PACM + 3% Chrysotile

***NOTE: THE SELECTED ASBESTOS CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL ASBESTOS QUANTITIES, AS REPORTED FOR EACH ASBESTOS CONTROL AREA AS DEFINED BY THIS SPECIFICATION - PRIOR TO SIGNING THE PROJECT CONTRACT AND START OF THE PROJECT. NO CHANGE ORDERS WILL BE APPROVED FOR DISCREPANCIES ASSOCIATED WITH THE REPORTED QUANTITIES.**

ATTACHMENT #3

INTERIM AND ON-GOING OPERATIONS AND MAINTENANCE PROGRAM:

The building owner representatives, maintenance personnel, building staff, outside contracting personnel, and other building occupants have been or will be made aware of the presence, amount, location, and condition, of the asbestos-containing building materials within this area of the building. These people have been or will be educated and advised not to disturb the asbestos-containing materials due to the potential health effects if asbestos fibers become airborne.

EMPLOYEE NOTIFICATIONS:

The building owner as well as outside contractors have been or will be notified as to the presence of asbestos containing building materials within the exterior areas of the **Lyman B. Goff Middle School (974 Newport Avenue; Pawtucket, RI)**. All outside contractor(s) will sign a document stating that he has been made aware of the presence and location of the asbestos-containing materials within this areas. Also, the building owner representative(s) are responsible for presenting information to the building occupants of any asbestos abatement activities being conducted. This will be accomplished by posting memo's and/or posting of caution / warning signs at all the entrances to the building during such activities.

ACCIDENTAL DISTURBANCE OF ASBESTOS-CONTAINING MATERIALS:

The building owner was, [at the time of the inspection] made aware of the presence of asbestos materials within the interior and exterior areas of the **Lyman B. Goff Middle School (974 Newport Avenue; Pawtucket, RI)**. Due to the presence of the asbestos-containing materials. The building owner will institute the following procedures in an event of an accidental asbestos fiber release within the building prior to the start of the asbestos abatement project.

If an asbestos-containing material becomes disturbed within the criteria of a minor fiber release (less than 10 linear feet or 25 square feet of ACBM), a trained "R.I. Competent Person" may perform the clean-up, removal, encapsulation, or enclosure abatement activities utilizing spot removal/repair techniques. During these spot abatement techniques, access to the area shall be restricted to only those trained individuals, signs shall be posted, and HVAC (if applicable) shall be shut down and locked out. If a major fiber release occurs (greater than 10 linear feet or 25 square feet of ACM), the clean-up, removal, encapsulation, or enclosure abatement activities must be completed by a RI Department of Health (RIDOH) certified asbestos abatement contractor. Regardless of the amount of asbestos to be abated, the affected area must be isolated and entry to the area restricted to only those trained/ certified personnel.

EMPLOYEE TRAINING:

Any employee of the company, firm, agency, or other organization as well as any outside contractor employed by the building owner who, as a consequence of their work activities, disturbs asbestos-containing building materials must be properly trained and certified by the R.I. Department of Health as a "R.I. Competent Person" in accordance with the R.I. Rules and Regulations for Asbestos Control.

ATTACHMENT #4

REQUESTED WAIVER

CLEARANCE AIR TESTING / EXTERIOR - ASBESTOS CONTROL AREAS – #1 & #2

Based on the scheduled removal of non-friable ACM building materials from the exterior elevations of the structure the (as defined by Attachment #2 of this specification) - in association with the scheduled open removal operations. The building owner requests a waiver of clearance air testing as required by section 1.14.2 P. of the current RIDOH asbestos control regulation [216-RICR-50-15-1]. In lieu of clearance air testing, results of OSHA personnel air sampling as collected by the asbestos contractor during the asbestos mitigation work operations will be used in lieu of clearance area air sampling. Please refer to Attachment #1, of this project specification for specific sampling criteria's and standards to be used for project completion.

ATTACHMENT #5

ASBESTOS CONTROL AREAS – #1 & #2

GENERAL REQUIREMENTS:

During the asbestos mitigation operations the selected asbestos contractor shall be responsible for the work to be conducted in accordance with all applicable asbestos control regulations: USEPA – AHERA 40 CFR 763, USEPA – NESHAP 40 CFR Part 61, US OSHA 29 CFR 1926.1101 & US OSHA 29 CFR 1910.1001 and the RIDOH Asbestos Control Regulation [216-RICR-50-15-1].

All building materials as defined for removal by Attachment #2 of this specification, have been determined and/or assumed to contain asbestos.

PROJECT SUBMITTALS: Prior to the start of any asbestos work operations, the selected asbestos contractor shall be required to submit copies of the following items for review and approval. **NOTE:** *Additional submittals not requested at this time may be required for submittal and approval in the future.* No asbestos work operations may begin on site until the following items are submitted and approved in writing by the owner (City of Pawtucket – School Department), project architect (Wessling Architects), the building owners' representative (Colliers) and/or Emery Environmental Associates.

1. *Copy of RIDOH 10-day written start work notification for this project,*
2. *Copies of the written notification(s) to the City of Pawtucket, RI police and fire departments,*
3. *Copy of contractor's current insurance certificate,*
4. *Copy of contractor's current written health and safety program,*
5. *Copy of contractor's current written asbestos respirator program,*
6. *Copies of MSDS sheet for the polyethylene sheeting, proposed for use,*
7. *Copies of MSDS sheet for the duct tape, proposed for use,*
8. *Copies of MSDS sheet for the final spray encapsulant, proposed for use,*
9. *Copies of MSDS sheet for protective suits, proposed for use,*
10. *Copy of manufacturer's efficiency report for each "HEPA vacuum system" proposed for use*
11. *Copies of licensure for the waste landfill, proposed for use,*
12. *Copies of OSHA 10, RIDOH Asbestos licensure, asbestos training certification, medical information, fit test record, First Aid &/ CPR card(s), for each worker proposed for use on the project site,*
13. *Copies of RIDOH certification for laboratory used to analyze the contractor's daily OSHA personal air samples.*

WORK REQUIREMENTS FOR EXISTING MATERIAL(S) REMOVAL AT EACH SEPARATE WINDOW and DOOR ROUGH OPENING: The selected asbestos contractor shall be responsible for the complete removal of any/all building materials within each window rough opening as scheduled to be removed per the requirements / direction of the current Wessling Architects project drawings AD-201, AD-202, AD-203 & AD-204. As defined by Attachment #2 of this specification, at the completion of work ALL building materials must be removed from each window and door rough openings, with masonry rough openings to remain. **Removal must include any/all caulk residue as may be adhered to the masonry rough openings upon completion of gross caulk removal. This work may require contractor to use a liquid / paste , caulk / adhesive removal product. Caulk residue remaining at the rough opening at the completion of work will not be acceptable site condition for final visual inspection. Final inspection shall be conducted only by the building owners asbestos consultant (Emery Environmental Assoc.).** All waste materials must be containerized in two (2) layers of six-mil polyethylene sheeting, properly labeled and sealed to an airtight condition and disposed of as a ACBM and in compliance with all current USDOT, OSHA, NESHAP and EPA asbestos disposal regulations. See Attachment #6 (AWP) and Attachment #7 of this specification for additional work requirements.

ATTACHMENT #6

ALTERNATE WORK PROCEDURE

**REMOVAL OF ALL BUILDING MATERIAL(S) AT WINDOW AND DOOR ROUGH OPENINGS:
ASBESTOS CONTROL AREA #1 / PHASE – 1 WORK (defined by Wessling Architects)
ASBESTOS CONTROL AREA #2 / PHASE – 2 WORK (defined by Wessling Architects)**

GENERAL REQUIREMENTS:

SCOPE OF WORK:

SCOPE OF WORK SHALL BE DEFINED AS REMOVAL OF ANY/ALL BUILDING MATERIALS WITHIN EACH MASONRY ROUGH OPENING - AS DEFINED BY ATTACHMENT #2 OF THIS SPECIFICATION.

REMOVAL SHALL BE CONDUCTED IN ACCORDANCE WITH ANY/ALL WORK REQUIREMENTS AS DEFINED IN THE ATTACHED ASB-16A FORM FOR THIS WORK AREA AND ALL ADDITIONAL WORK REQUIREMENTS AS DEFINED BY ATTACHMENTS #1 - #7 OF THIS SPECIFICATION.

ALL WORK OPERATIONS MUST BE COMPLETED AS AN ASBESTOS RESPONSE ACTION BY THE BUILDING OWNERS SELECTED ASBESTOS CONTRACTOR.

During the asbestos mitigation operations the selected asbestos contractor shall be responsible for all work to be conducted in accordance with all applicable asbestos control regulations: USEPA – AHERA 40 CFR 763, USEPA – NESHAP 40 CFR Part 61, US OSHA 29 CFR 1926.1101 & US OSHA 29 CFR 1910.1001 and the RIDOH Asbestos Control Regulation [216-RICR-50-15-1].

All materials as defined for removal by Attachment #2 of this specification and Wessling Architects project Drawings G-002, A-101, A-102, A-103, AD-201, AD-202, AD-203, AD-204, A-201, A-202, A-203 A-204, AD-501, AD-502 (attached in Appendix – E) shall be removed as a ACBM.

S.O.P. EXTERIOR - WORK OPERATION(S): During the exterior work operations - All work shall be conducted in accordance with standard engineering control requirements of section 1.14.8 of the current RIDOH Asbestos Control Regulation [216-RICR-50-15-1] and all requested waivers and alternate work procedures as defined by Attachments #4, #6 & #7 of this specification.

CONTAINMENT BARRIERS: The asbestos contractor shall be responsible for isolation of the asbestos control / work area and prevent the movement of any/all dust or debris beyond the limits of the asbestos control / work area(s), as defined by Attachment #2 of this specification and the attached Wessling Architects project Drawings G-002, A-101, A-102, A-103, AD-201, AD-202, AD-203, AD-204, A-201, A-202, A-203 A-204, AD-501, AD-502 (attached in Appendix – E). Containment barriers shall be installed in compliance with this specification and sections: 1.14.8 - A, B, C, D, E, F, G, H, J & K of the RIDOH asbestos control regulation [216-RICR-50-15-1], with the additional requirement to install two (2) layers of **6 mil fire retardant heavy duty polyethylene sheeting with scrim reinforcement** on the interior rough opening side of any / all material scheduled to be removed. The scrim reinforced sheeting shall be installed in a manner that continues the critical barrier seal when the window / door system is removed. These critical barriers shall be secure and must maintain an airtight enclosure for the work area until the work is complete (i.e.: final visual inspection and review of OSHA personal air testing by Emery Environmental Assoc.). [Note: product information for a suggested product “Americover - Tuff-Scrim™ Poly TS6FR” can be found at www.americover.com]. *Note: This work requirement may be amended to the use of two (2) independent layers of fire rated six (6) mil polyethylene sheeting if approved by the building owner in writing prior to the finalization of the project contract.*

NOTE – 1: Removal of any/all ACM/PACM materials as defined by Attachment #2 of this specification - must be conducted in a manner to insure all ACM/PACM materials have been properly abated **at door and window frames and brick rough openings.**

NOTE - 2: During the work operations, the asbestos contractor shall establish a watering system that can be directed at the area(s) of removal and must insure compliance with all requirements of the current USEPA / NESHAP regulation 49 CFR Part 61, regarding visible emissions. In addition, the selected asbestos contractor shall be responsible for compliance with RIDEM regulation #5 (fugitive dust) and RIDEM regulation #24 (Lead Paint). The building owner will provide a water source (operating hose connection) for the asbestos contractor to use. It is the responsibility of the asbestos contractor to connect from the provided water source to the area(s) where an asbestos response action is being conducted. The contractor must have at least one (1) operating water hose at **each** window rough opening removal location. This requirement will be enforced during the asbestos response action work and work will be stopped if dry removal is being observed at any time.

NOTE - 3: The selected asbestos contractor shall be responsible for the work to be conducted in accordance with **all** applicable asbestos control regulations: USEPA – NESHAP 40 CFR Part 61, US OSHA 29 CFR 1926.1101, US OSHA 29 CFR 1910.1001 and the RIDOH Asbestos Control Regulation [216-RICR-50-15-1]. The building owner and/or the selected asbestos consultant (Emery Environmental Associates) will stop the work at any time violations of any asbestos control regulations are observed.

NOTE – 4: ACM WASTE CONTAINERIZATION: The selected asbestos contractor shall be responsible for the **wetting** and containerization of all ACM/PACM waste at the point of waste generation (i.e. point of removal). At no time shall the asbestos contractor be allowed to open remove and drop ACM waste from a height of 6 feet or greater before the waste is containerized (i.e. double bagged, barreled or wrapped in two layers of polyethylene sheeting and wrapped to an air tight condition or directly placed in a lined dumpster). At no time shall any ACM/PACM waste be dropped through a dust tight chute that has NOT been bagged or barreled first. And at no time shall waste be allowed to be placed in an open dumpster without the waste being containerized first (i.e. double bagged, barreled or wrapped in two layers of polyethylene sheeting and wrapped to an air tight condition). No open or un-containerized ACM waste will be allowed to be transported through the interior of the school at any time.

NOTE - 5: FALL PROTECTION / OSHA COMPLIANCE: It shall be the sole responsibility of the asbestos contractor to comply with all applicable requirements for OSHA as it pertains to fall protection, use of ladders / scaffolding and lifts, as required to complete any/all asbestos response actions (as defined by Attachment #2 of this specification). It shall NOT be the responsibility of the building owner, Colliers Project Leaders and/or the asbestos consultant, to comply with any/all applicable OSHA safety requirements as it pertains to the performance of any asbestos response actions as defined by Attachment #2 of this specification.

During the asbestos mitigation operations the selected asbestos contractor shall be responsible for work to be conducted in accordance with **all** applicable asbestos control regulations: USEPA – AHERA 40 CFR 763, USEPA – NESHAP 40 CFR Part 61, US OSHA 29 CFR 1926.1101 & US OSHA 29 CFR 1910.1001 and the RIDOH Asbestos Control Regulation [216-RICR-50-15-1]. The asbestos contractor shall be required to remove all exterior ACM / PACM containing building material(s), defined by Attachment #2 of this project specification using work operations as defined by section 1.14.8 of the current RIDOH Asbestos Control Regulations [216-RICR-50-15-1], in addition to all additional work requirements / waivers as defined by Attachments #4 , #6 & #7 of this specification.







The building owner (City of Pawtucket School Dept.), project architect, building owners representative (Colliers Project Leaders) and/or the selected asbestos consultant (Emery Environmental Associates) will stop work at any time violations of any asbestos control regulations are observed. In addition to the above referenced asbestos control regulations, the selected asbestos contractor shall be required to comply with the following additional work requirements.

NOTE #6: The asbestos contractor shall only move personnel, waste and equipment from the area of removal to grade using equipment in accordance with its approved design / capabilities and in accordance with current OSHA regulations. [Example: use of a LULL for lifting personnel / workers as not intended by the design of the LULL is strictly prohibited, moving of waste, wrapped window panels, etc. in a manlift only intended for use by workers / personnel is prohibited.]

STANDARD WORK OPERATION(S) FOR ASBESTOS CONTROL AREA(S) #1 & #2:

During the removal work operations, the asbestos contractor shall be responsible for the following ADDITIONAL removal work operations in addition to any/all standard work requirements as defined by section 1.14.8 of the current RIDOH Asbestos Control Regulations [216-RICR-50-15-1]:

- 1). The selected asbestos contractor shall establish a regulated area defined by barrier tape and marked with appropriate posting as defined by OSHA 29CFR1926.1101(e)(1)-(5) and OSHA 29CFR1926.1101(k)(7).
- 2) The selected asbestos contractor shall cover the exterior ground area with at least two (2) layers of six (6) mil polyethylene sheeting in a manner that collects any all waste material as generated during the asbestos response action work,
- 3). The selected asbestos contractor shall establish the work area inclusive of all requirements of engineering controls as defined by sections 1.14.8 A., B.2., C., D., E., F., G., H., I., & J of the current RIDOH Asbestos Control Regulations [216-RICR-50-15-1], **including any additional containment requirements per this specification,**
- 4). The asbestos contractor shall be required to remove of any/all materials as defined by Attachment #2 of this specification. The selected asbestos contractor shall be responsible for the wetting and containerization of all ACM/PACM waste at the point of waste generation (i.e. point of removal). At no time shall the asbestos contractor be allowed to open remove and drop ACM waste from a height of six (6) feet or greater before the waste is containerized (i.e. double bagged, barreled or wrapped in two (2) layers of polyethylene sheeting and wrapped to an air tight condition or directly placed in a lined dumpster). At no time shall any ACM/PACM waste be dropped through a dust tight shute that has NOT been bagged or barreled first. And at no time shall waste be allowed to be placed in an open dumpster without the waste being containerized first (i.e. double bagged, barreled or wrapped in two layers of polyethylene sheeting and wrapped to an air tight condition). No open or un-containerized ACM waste will be allowed to be transported through the interior of the school at any time.
- 5). Removal at window rough opening(s) shall include these additional building materials / items as defined for removal by the "Symbol Legend" on the attached Wessling Architects drawings A-101, A-102 & A-103.

SYMBOL LEGEND	
	APPROXIMATE LOCATION OF EXISTING WATER DAMAGE AT INTERIOR FINISHES. INCLUDE REPAIR OF 4 S.F. OF PLASTER/GYPSUM BOARD AT EACH LOCATION.
	VENTILATION UNIT WITH LOUVER THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	DRYER UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	NEW KILN UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	KITCHEN EQUIPMENT UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	HOT WATER TANK WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

6). During the work operation the asbestos contractors employees and anyone engaging in the act of asbestos removal / asbestos response action work shall don PPE for potential atmospheres at or above the current OSHA PEL / STEL as defined by 29CFR1926.1101.

7). Completion of asbestos removal work operations shall be approved by the building owners project representatives Emery Environmental Assoc., Colliers Project Leaders and/or the project architect. The work must be conducted using wet methods and without a visible emission. Waste material must be containerized at the roof area in accordance with work requirements as defined by 1.14.2; sections - J, K, L, M, N & O.

8). The asbestos contractor shall be required to remove of any/all materials containing or presumed to contain asbestos, including **but not limited to:** ALL work as defined as defined by Attachment #2 of this specification. Work shall be completed to render a site condition that will require no impact to ACM / PACM material by trades other than the RIDOH asbestos contractor contracted for this project.

LEAD PAINT / RIDEM: The selected asbestos contractor shall be required to comply with all notification and work requirements of the current RIDEM lead control regulations #24 & #5.

LEAD PAINT /OSHA: All workers coming into contact with interior and exterior painted surfaces shall be required to comply with all worker protection requirements of the current OSHA lead regulation 29 CFR 1926.62.

ELECTRICITY SUPPLY / SERVICE FOR SITE / WORK OPERATIONS: During the performance of the asbestos abatement operations, the asbestos contractor shall be responsible for providing any/all electricity as required for the performance of the contracted asbestos abatement operations.

ASBESTOS CONTRACTORS RESPONSIBILITY REGARDING SUPPLY OF ELECTRICAL POWER TO THE REGULATED WORK AREA(S). The selected asbestos contractor shall be responsible for the supply of electricity / electric power as required to complete any/all asbestos mitigation operations the defined asbestos control areas. The owner shall provide the asbestos contractor with a power supply source and the selected asbestos contractor shall be responsible for routing power from the supplied source to the asbestos work area using the contractor's own electric cords. **In addition, the asbestos contractor shall be responsible for the configuration and supply of at least two (2) electric cords to each asbestos control area for the purpose of project oversight (in-process air testing, lighting, etc.) during and at the completion of any/all asbestos mitigation work operations. These cords shall be installed to locations as directed by the on-site asbestos project monitor. All cords routed to each asbestos control area and used for the work associated with the asbestos abatement or project air testing must be directly connected to a GFCI and shall be always maintained to be in dry, clean and dust free condition.**

ATTACHMENT #7

ALTERNATE WORK PROCEDURE

ASBESTOS CONTROL AREA #2 / INTACT DOOR REMOVAL

Removal of Door(s) #101, #102 & #103, shall be removed in accordance with the RIDOH intact removal standard “Regulatory Interpretation Regarding Intact Removal of Non-Friable Containing Materials – Dated March 2, 2005 . Door frames shall be removed using AWP as defined by Attachment #6 of this specification.

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS
DEPARTMENT OF HEALTH
Safe and Healthy Lives in Safe and Healthy Communities

March 2, 2005

To: Certified Asbestos Project Designers, Inspectors and Management Planners, Asbestos Abatement Contractors, Asbestos Training Providers, LEAs, Competent Persons

From: Alfred J. Cabral, Supervising Industrial Hygienist, Indoor Air Quality Program

Subject: Regulatory Interpretation Regarding Intact Removal of Non-Friable Asbestos Containing Materials

In response to numerous inquiries regarding the intact removal of non-friable asbestos containing materials from regulated facilities, the Rhode Island Department of Health's Asbestos Program is issuing this regulatory interpretation.

The following activities do not constitute asbestos abatement as defined in Rhode Island Rules and Regulations for Asbestos Control [R23-24.5-ASB], and therefore such activities are not subject to the above reference regulations. This interpretation is provided based upon the following understandings:

1. The asbestos-containing material is undamaged and non-friable and remains undamaged and non-friable during the removal or collection of the material. (See Note #1)
2. The asbestos-containing material is removed intact and without breakage or other disturbance, which may release asbestos fibers. The material is removed without the creation of any visible residue.
3. The asbestos-containing material is not subjected to sanding, cutting, grinding, or abrading during the removal or collection process.
4. The asbestos-containing material does not become Regulated Asbestos Containing Material (RACM) as defined in the Rhode Island Rules and Regulations for Asbestos Control [R23-24.5-ASB] and the asbestos National Emissions Standards for Hazardous Air Pollutants [40 CFR Part 61, Subpart M].

Note #1 In the case of floor tile that is "slightly broken", a case-by-case assessment must be made to determine whether the removal of the tile constitutes asbestos abatement. The Rhode Island Department of Health's Asbestos Control Program must be contacted directly when such activities are contemplated.

List of Activities that do not constitute asbestos abatement:

- Removal of transit panels by unbolting or unscrewing and removing of the panels intact;
- Removal of transit laboratory-type desktops and splash guards by unbolting or unscrewing and removing the desktop intact, or removal of the entire desk unassembled;
- Removal of transit type chalkboards by unbolting or unscrewing and removing the chalkboard intact
- Removal of countertops, backsplashes, etc., with linoleum, adhesive glues, or similar materials by removing the entire unit intact;
- Removal of sinks with pan sealant (anti-sweating material) by removing the sinks intact;

CANNON BUILDING, Three Capitol Hill, Room 206, Providence, RI 02908-5097
Hearing/Speech Impaired, Dial 711 or Call 1-800-745-5555 (TTY)
Web Site: www.health.ri.gov

Page 2

- Removal of window sashes with window glazing (interior and exterior) by removing the window stops and removing the entire window sash units intact;
- Picking up loose floor tiles that have become completely disassociated with the floor and are either whole or are slightly broken, but are still not considered to be Regulated Asbestos-Containing Material (RACM) (See item #1 and note #1 above);
- Removal of fire doors containing insulation from their hinges, intact for complete component disposal;
- Removal of electrical fixtures and components that contain wire jacketing or transite sheeting, intact for complete component disposal;
- Picking up loose miscellaneous non-friable items such as rolls of linoleum, loose gaskets, loose roofing and siding shingles, etc.;

All asbestos containing waste generated as the result of these activities must be disposed of as asbestos waste at an authorized waste disposal facility.

This interpretation relates only to asbestos abatement as defined in Rhode Island Rules and Regulations for Asbestos Control [R23-24.5-ASB]. All other applicable federal, state or local regulations apply.

For public and private non-profit schools that are subject 40CFR763, Asbestos Hazard Emergency Response Act (AHERA), you must maintain documentation with respect to any of the above activities conducted in order to demonstrate that asbestos containing materials were removed appropriately.

Questions regarding this interpretation should be directed to the RI Department of Health's Asbestos Control Program at (401) 222-3601.

END OF SPECIFICATION

APPENDIX – B:

ANALYTICAL SAMPLE RESULTS



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com> / bostonlab@emsl.com

EMSL Order: 132208324

Customer ID: EMER53

Customer PO:

Project ID:

Attention: Patrick Emery

Emery Environmental Associates

PO BOX E

Pawtucket, RI 02861

Phone: (401) 727-4941

Fax: (401) 724-0926

Received Date: 12/14/2022 11:40 AM

Analysis Date: 12/19/2022

Collected Date: 12/12/2022

Project: 221213-A / Pawtucket School; Goff MS; 974 Newport Avenue; Pawtucket, RI

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
221213-1.1 132208324-0001	Exterior / 1st Level at Toilet - Caulk at Window Frame/Masonry Rough Opening - Tan/Gray Pliable (Soft)	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
221213-1.2 132208324-0002	Exterior / 1st Level at Lib. - Caulk at Window Frame/Masonry Rough Opening - Tan/Gray Pliable (Soft)				Positive Stop (Not Analyzed)
221213-1.3 132208324-0003	Exterior / 2nd Level at #201 - Caulk at Window Frame/Masonry Rough Opening - Tan/Gray Pliable (Soft)				Positive Stop (Not Analyzed)
221213-1.4 132208324-0004	Exterior / 2nd Level at #208 - Caulk at Window Frame/Masonry Rough Opening - Tan/Gray Pliable (Soft)				Positive Stop (Not Analyzed)
221213-1.5 132208324-0005	Exterior / 2nd Level at Café - Caulk at Window Frame/Masonry Rough Opening - Tan/Gray Pliable (Soft)				Positive Stop (Not Analyzed)
221213-1.6 132208324-0006	Exterior / 3rd Level at #318 - Caulk at Window Frame/Masonry Rough Opening - Tan/Gray Pliable (Soft)				Positive Stop (Not Analyzed)
221213-1.7 132208324-0007	Exterior / 3rd Level at #305 - Caulk at Window Frame/Masonry Rough Opening - Tan/Gray Pliable (Soft)				Positive Stop (Not Analyzed)

Initial report from: 12/19/2022 15:22:46



EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801

Tel/Fax: (781) 933-8411 / (781) 933-8412

<http://www.EMSL.com / bostonlab@emsl.com>

EMSL Order: 132208324

Customer ID: EMER53

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
221213-2.1 132208324-0008	Exterior / 2nd Level at #201 - Window Glazing (Gray/White) at Alum. Push-out Sash	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
221213-2.2 132208324-0009	Exterior / 2nd Level at #208 - Window Glazing (Gray/White) at Alum. Push-out Sash				Positive Stop (Not Analyzed)
221213-2.3 132208324-0010	Exterior / 2nd Level at Teacher Room - Window Glazing (Gray/White) at Alum. Push-out Sash				Positive Stop (Not Analyzed)
221213-2.4 132208324-0011	Exterior / 3rd Level at #318 - Window Glazing (Gray/White) at Alum. Push-out Sash				Positive Stop (Not Analyzed)
221213-2.5 132208324-0012	Exterior / 3rd Level at #305 - Window Glazing (Gray/White) at Alum. Push-out Sash				Positive Stop (Not Analyzed)
221213-3.1 132208324-0013	Exterior / 1st Level at Toilet - White Caulk at Window Frame (Firm Texture)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

John McCarthy (3)

Steve Grise, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-139, VT AL998919, ME LB-0039

Initial report from: 12/19/2022 15:22:46

EMSL

Asbestos Bulk Building Materials - Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Route 420 North
Cinnaminson, NJ 08077

132208324

PHONE (800) 220-3675
EMAIL CinnAsb@EMSL.com

Customer ID:		Billing ID: SAME	
Company Name: Emery Environmental Assoc.		Company Name:	
Contact Name: Patrick Emery		Billing Contact:	
Street Address: PO Box E		Street Address:	
City, State, Zip: Pawtucket, RI 02861	Country: USA	City, State, Zip:	Country:
Phone: 401-641-0074		Phone:	
Email(s) for Report: emeryenvironmental@verizon.net		Email(s) for Invoice:	

Project Information

Project Name/No: See Below	Purchase Order:
EMSL LIMS Project ID: (If applicable, EMSL will provide)	US State where sample collected: RI
State of Connecticut (CT) must select project location:	<input type="checkbox"/> Commercial (Taxable) <input type="checkbox"/> Residential (Non-Taxable)
Sampled By Name: Patrick Emery	Sampled By Signature: <i>Pat Emery</i>
No. of Samples in Shipment: 13	

Turn-Around-Time (TAT)

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 32 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

Please call ahead for large projects and/or turnaround times 6 Hours or Less. *32 Hour TAT available for select tests only; samples must be submitted by 11:00am.

PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) <input type="checkbox"/> POINT COUNT <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) POINT COUNT w/ GRAVIMETRIC <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NYS 198.1 (Friable - NY) <input type="checkbox"/> NYS 198.6 NOB (Non-Friable - NY) <input type="checkbox"/> NYS 198.6 (Vermiculite SM-V)	Test Selection <input type="checkbox"/> TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (Non-Friable-NY) <input type="checkbox"/> TEM EPA 600/R-93/116 w Milling Prep (0.1%) Other Tests (please specify) COLLECTED: 12/12/2022 <input checked="" type="checkbox"/> Positive Step - Clearly Identified Homogeneous Areas (HA)
---	---

Sample Number	HA Number	Sample Location	Material Description
221213	1-1	EXTERIOR / 1 st LEVEL @ TOILET	CAULK @ WINDOW
221213	1-2	EXTERIOR / 1 st LEVEL @ LIB.	FRAME / MASONRY
221213	1-3	EXTERIOR / 2 nd LEVEL @ #201	ROUGH OPENING =
221213	1-4	EXTERIOR / 2 nd LEVEL @ #208	"TAN/GREY" PLIABLE
221213	1-5	EXTERIOR / 2 nd LEVEL @ CAFE	(SOFT)
221213	1-6	EXTERIOR / 3 rd LEVEL @ #318	
221213	1-7	EXTERIOR / 3 rd LEVEL @ #305	
221213	2-1	EXTERIOR / 2 nd LEVEL @ #201	WINDOW GLAZING
221213	2-2	EXTERIOR / 2 nd LEVEL @ #208	"GREY/WHITE" @ ALUM.
221213	2-3	EXTERIOR / 2 nd LEVEL @ TEACHER RM.	PUSH-OUT SASH.

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

PH 221213-A
PAWTUCKET SCHOOL: 60FF MS @ 974 NEWPORT AVE.; PAWTUCKET, RI

Method of Shipment: DELIVERY	Sample Condition Upon Receipt:
Relinquished by: <i>Pat Emery</i>	Date/Time: 12/13/22
Relinquished by:	Date/Time:
Received by:	Date/Time:
Received by:	Date/Time:

☒ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Page 1 of 2

REC'D SP1140

EMSL-BOSTON

DEC 14 2022

w/proof

EMSL Order Number / Lab Use Only

PHONE: (800) 220-3675
EMAIL: CinnAstleib@EMSL.com

132208324

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Method of Shipment: DELIVERY		Sample Condition Upon Receipt:	
Relinquished by: PA5	Date/Time: 12/13/22	Received by:	Date/Time:
Relinquished by: ef	Date/Time:	Received by:	Date/Time:

☒ **AGREE TO ELECTRONIC SIGNATURE** (By checking, I consent to signing this Chain of Custody document by electronic signature.)

Page 2 of 2

APPENDIX – C:

ASBESTOS PROJECT CONSULTANT LICENSURE



State of Rhode Island
DEPARTMENT OF HEALTH
CENTER FOR HEALTHY HOMES & ENVIRONMENT – ASBESTOS PROGRAM

ASBESTOS CONSULTANT CERTIFICATION

Pursuant to the Asbestos Abatement Act, Chapter 24.5 of Title 23 of the Rhode Island General Laws, and Regulation 216-RICR-50-15-1 – Asbestos Control, this license is hereby issued as designated below. This license is subject to all applicable rules, regulations, orders and notices of the Department of Health now or hereafter in effect and to any conditions delineated below.

Certificate Holder: **PATRICK A EMERY**
Address: **EMERY ENVIRONMENTAL ASSOCIATES**
PO BOX E
PAWTUCKET RI 02861

Certification Number: **APD00505**
Type of Certification: **Asbestos Project Designer**
Expiration Date: **04/30/2023**

Except as specifically provided otherwise in this Certificate, Certificate holders shall conduct their program in accordance with statements, procedures and representations contained in their application, including any attachments. Regulation 216-RICR-50-15-1 - Asbestos Control shall govern unless the statements, representations and procedures in the Certificate Holder's application and documentation are more restrictive than the regulations.

James V. McDonald, MD, MPH
Interim Director of Health



State of Rhode Island
DEPARTMENT OF HEALTH
CENTER FOR HEALTHY HOMES & ENVIRONMENT – ASBESTOS PROGRAM

ASBESTOS CONSULTANT CERTIFICATION

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Certificate Holder: **PATRICK A EMERY**
Address: **EMERY ENVIRONMENTAL ASSOCIATES**
PO BOX E
PAWTUCKET RI 02861

Certification Number: **AI00505**
Type of Certification: **Asbestos Inspector**
Expiration Date: **04/30/2023**

Except as specifically provided otherwise in this Certificate, Certificate holders shall conduct their program in accordance with statements, procedures and representations contained in their application, including any attachments. Regulation 216-RICR-50-15-1 - Asbestos Control shall govern unless the statements, representations and procedures in the Certificate Holder's application and documentation are more restrictive than the regulations.

James V. McDonald, MD, MPH
Interim Director of Health



State of Rhode Island
DEPARTMENT OF HEALTH
CENTER FOR HEALTHY HOMES & ENVIRONMENT – ASBESTOS PROGRAM

ASBESTOS CONSULTANT CERTIFICATION

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Certificate Holder: PATRICK A EMERY
Address: EMERY ENVIRONMENTAL ASSOCIATES
PO BOX E
PAWTUCKET RI 02861

Certification Number: AMP00505
Type of Certification: Asbestos Management Planner
Expiration Date: 04/30/2023

Except as specifically provided otherwise in this Certificate, Certificate holders shall conduct their program in accordance with statements, procedures and representations contained in their application, including any attachments. Regulation 216-RICR-50-15-1 - Asbestos Control shall govern unless the statements, representations and procedures in the Certificate Holder's application and documentation are more restrictive than the regulations.

James V. McDonald, MD, MPH
Interim Director of Health



State of Rhode Island
DEPARTMENT OF HEALTH
CENTER FOR HEALTHY HOMES & ENVIRONMENT – ASBESTOS PROGRAM

ASBESTOS CONSULTANT CERTIFICATION

Pursuant to the Asbestos Abatement Act, Chapter 24.5 of Title 23 of the Rhode Island General Laws, and Regulation 216-RICR-50-15-1 – Asbestos Control, this license is hereby issued as designated below. This license is subject to all applicable rules, regulations, orders and notices of the Department of Health now or hereafter in effect and to any conditions delineated below.

Certificate Holder: VINCENT EMERY
Address: EMORY ENVIRONMENTAL ASSOCIATES
PO BOX E
PAWTUCKET RI 02861

Certification Number: AI01105
Type of Certification: Asbestos Inspector
Expiration Date: 07/31/2023

Except as specifically provided otherwise in this Certificate, Certificate holders shall conduct their program in accordance with statements, procedures and representations contained in their application, including any attachments. Regulation 216-RICR-50-15-1 - Asbestos Control shall govern unless the statements, representations and procedures in the Certificate Holder's application and documentation are more restrictive than the regulations.

James V. McDonald, MD, MPH
Interim Director of Health

APPENDIX – D:

ASBESTOS TESTING LABORATORY LICENSURE(S)



State of Rhode Island
DEPARTMENT OF HEALTH
CENTER FOR HEALTHY HOMES & ENVIRONMENT - ASBESTOS PROGRAM

ASBESTOS ANALYTICAL SERVICES CERTIFICATION

Pursuant to the Asbestos Abatement Act, Chapter 24.5 of Title 23 of the Rhode Island General Laws, and Regulation 216-RICR-50-15-1 - Asbestos Control, this license is hereby issued as designated below. This license is subject to all applicable rules, regulations, orders and notices of the Department of Health now or hereafter in effect and to any conditions delineated below.

Certificate Holder: EMERY ENVIRONMENTAL ASSOCIATES

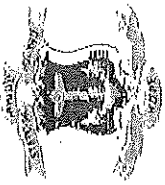
Address: 241 GROTTO AVE
UNIT D6
PAWTUCKET RI 02860

Certification Number: PCM00146

Expiration Date: 10/31/2023

Type of Certification: Analytical Service - PCM

Except as specifically provided otherwise in this Certificate, Certificate Holders shall conduct their program in accordance with statements, procedures and representations contained in their application, including any attachments. Regulation 216-RICR-50-15-1 - Asbestos Control shall govern unless the statements representations and procedures in the Certificate Holder's application and documentation are more restrictive than the Regulation.



State of Rhode Island
DEPARTMENT OF HEALTH
CENTER FOR HEALTHY HOMES & ENVIRONMENT – ASBESTOS PROGRAM

ASBESTOS ANALYTICAL SERVICES CERTIFICATION

Pursuant to the Asbestos Abatement Act, Chapter 24.5 of Title 23 of the Rhode Island General Laws, and Regulation 216-RICR-50-15-1 – Asbestos Control, this license is hereby issued as designated below. This license is subject to all applicable rules, regulations, orders and notices of the Department of Health now or hereafter in effect and to any conditions delineated below.

Certificate Holder: EMSL ANALYTICAL INC
Address: 5 CONSTITUTION WAY UNIT A
WOBURN MA 01801

Certification Number: PLM00139
Expiration Date: 04/30/2023
Type of Certification: Analytical Service - PLM

Except as specifically provided otherwise in this Certificate, Certificate Holders shall conduct their program in accordance with statements, procedures and representations contained in their application, including any attachments. Regulation 216-RICR-50-15-1 - Asbestos Control shall govern unless the statements representations and procedures in the Certificate Holder's application and documentation are more restrictive than the Regulation.

A handwritten signature in black ink, appearing to read "J. V. McDonald".

James V. McDonald, MD, MPH
Interim Director of Health

APPENDIX – E:

ASBESTOS PROJECT DRAWING(S)

PROJECT:

LYMAN B. GOFF MIDDLE SCHOOL
WINDOW REPLACEMENT

974 NEWPORT AVE.
PAWTUCKET, RI 02861



CLIENT:

PAWTUCKET SCHOOL
DEPARTMENT

286 MAIN ST.
PAWTUCKET, RI 02860

ARCHITECT:



WESSLING
ARCHITECTS

AIA-CSI-BOCA

350 GRANITE STREET, SUITE 1103, BRAINTREE, MA 02184
TEL. 617-773-8150 FAX 617-773-4902
www.wesslingarchitects.com

CONSULTANTS:

STRUCTURAL ENGINEER:



Silman

A TYLin Company

111 Devonshire St, Suite 720
Boston, MA 02109
617 695 6700


MECHANICAL AND ELECTRICAL ENGINEER:



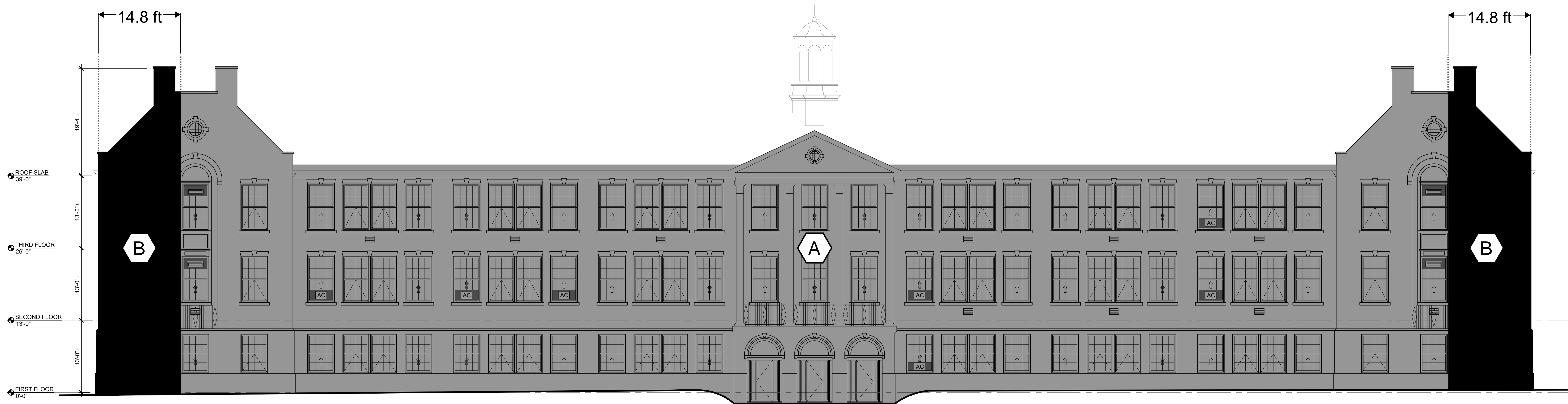
Wozny/Barbar & Associates, Inc.
CONSULTING ENGINEERS

1076 Washington Street Hanover, MA 02339 Tel: (781) 826-4144 Fax: (781) 924-5792 www.wbaengineers.com	161 Exchange Street 3rd Floor Pawtucket, RI 02860
---	---

Drawing name: J:\S\W2022\22081\get middle school window replacement\50-construction documents\architectural\AutoCAD\get middle school\9wides\22081-CAD Site Plan.dwg
 Date: 2022-10-01am
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 Xref1_1: J:\S\W2022\22081\get middle school window replacement\50-construction documents\architectural\autoacad\get middle school\9wides\22081 Site Plan.dwg



Zone	Component area	+G _p	-G _p	+ Pressure	- Pressure
				(psf)	(psf)
A	<=10 sf	0.9	-0.99	32.8	-35.5
	50 sf	0.79	-0.88	29.4	-32.1
	200 sf	0.69	-0.78	26.5	-29.2
	>500 sf	0.63	-0.72	24.6	-27.3
B	<=10 sf	0.9	-1.26	32.8	-43.7
	50 sf	0.79	-1.04	29.4	-37
	200 sf	0.69	-0.85	26.5	-31.1
	>500 sf	0.63	-0.72	24.6	-27.3



1 NEW EAST ELEVATION
1/8"=1'-0"



LYMAN B. GOFF
MIDDLE SCHOOL
WINDOW
REPLACEMENT

974 NEWPORT AVE.
PAWTUCKET, RI 02861

PAWTUCKET
SCHOOL
DEPARTMENT

286 MAIN ST.
PAWTUCKET, RI 02860

NOT FOR
CONSTRUCTION

PROFESSIONAL

	12-12-22	BID SET
MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO.:	22081
DRAWN BY:	AC
CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

NEW EAST ELEVATION WALL PRESSURES

S-1

DO NOT SCALE DRAWING

NOTES:
1. SILMAN HAS NOT REVIEWED THE EXISTING BASE BUILDING STRUCTURE, ROOFING, PARAPETS, ROOFTOP EQUIPMENT, ANCHORAGES, OR ANY OTHER EXISTING FEATURE FOR ABILITY TO WITHSTAND WIND LOADS SHOWN HERE. SILMAN HAS NOT REVIEWED ANY PROPOSED NEW EQUIPMENT, ROOFING, BUILDING MODIFICATIONS, ANCHORAGES, ETC. FOR ABILITY TO WITHSTAND WIND LOADS SHOWN HERE.
2. BUILDING HEIGHTS AND DIMENSIONS PROVIDED BY WESSLING ARCHITECTS.
3. BACKGROUND SHOWN FOR INFORMATION ONLY.
4. NO FM GLOBAL REQUIREMENTS OR MODIFICATIONS TO CODE-MANDATED WIND LOADS HAVE BEEN REVIEWED OR INCLUDED.
5. NEGATIVE PRESSURES ARE SUCTION PRESSURES ON A GIVEN SURFACE (ACTING AWAY FROM SURFACE). POSITIVE VALUES INDICATE PRESSURES ACTING TOWARD SURFACE.
6. ALL PRESSURES BASED ON ULTIMATE WIND SPEEDS AND A MEAN ROOF ELEVATION OF 46'-0".

Zone	Component area	+GC _p	-GC _p	+ Pressure	- Pressure
				(psf)	(psf)
A	<=10 sf	0.9	-0.99	32.8	-35.5
	50 sf	0.79	-0.88	29.4	-32.1
	200 sf	0.69	-0.78	26.5	-29.2
	>500 sf	0.63	-0.72	24.6	-27.3
B	<=10 sf	0.9	-1.26	32.8	-43.7
	50 sf	0.79	-1.04	29.4	-37
	200 sf	0.69	-0.85	26.5	-31.1
	>500 sf	0.63	-0.72	24.6	-27.3



CONSULTANTS:

Silman
A TYLin Company

111 Devonshire St, Suite 720
Boston, MA 02109
617 695 6700

PROJECT:

LYMAN B. GOFF
MIDDLE SCHOOL
WINDOW
REPLACEMENT

974 NEWPORT AVE.
PAWTUCKET, RI 02861

CLIENT:

PAWTUCKET
SCHOOL
DEPARTMENT

286 MAIN ST.
PAWTUCKET, RI 02860

NOT FOR
CONSTRUCTION

PROFESSIONAL

12-12-22 BID SET
MARK DATE DESCRIPTION
ISSUE:


PROJECT NO.: 22081
DRAWN BY: AC
CHECKED BY: SAW/JSG
DRAWING SCALE: AS NOTED

SHEET TITLE:
NEW WEST
ELEVATIONS
WALL PRESSURES

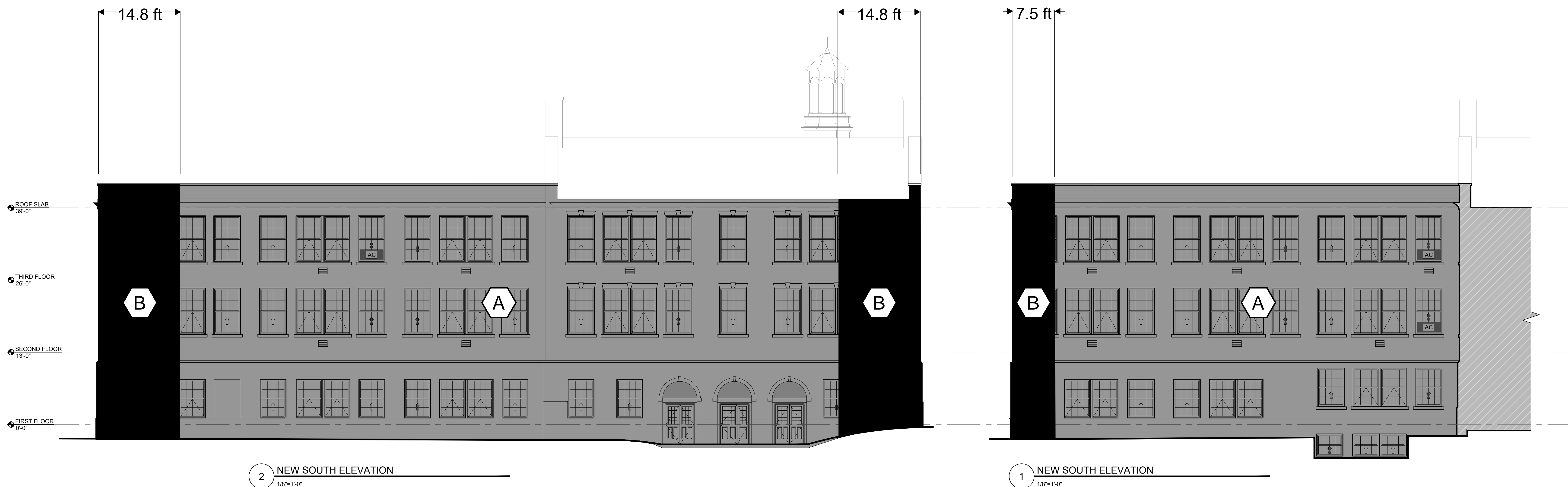
SHEET:

S-2

DO NOT SCALE DRAWING



Zone	Component area	+G _p	-G _p	+ Pressure	- Pressure
				(psf)	(psf)
A	<=10 sf	0.9	-0.99	32.8	-35.5
	50 sf	0.79	-0.88	29.4	-32.1
	200 sf	0.69	-0.78	26.5	-29.2
	>500 sf	0.63	-0.72	24.6	-27.3
B	<=10 sf	0.9	-1.26	32.8	-43.7
	50 sf	0.79	-1.04	29.4	-37
	200 sf	0.69	-0.85	26.5	-31.1
	>500 sf	0.63	-0.72	24.6	-27.3



LYMAN B. GOFF
MIDDLE SCHOOL
WINDOW
REPLACEMENT

974 NEWPORT AVE.
PAWTUCKET, RI 02861

PAWTUCKET
SCHOOL
DEPARTMENT

286 MAIN ST.
PAWTUCKET, RI 02860

NOT FOR
CONSTRUCTION

PROFESSIONAL


	12-12-22	BID SET
MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO.:	22081
DRAWN BY:	AC
CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

NEW SOUTH ELEVATIONS WALL PRESSURES

S-3

DO NOT SCALE DRAWING



Zone	Component area	+GC _p	-GC _p	+ Pressure	- Pressure
				(psf)	(psf)
A	<=10 sf	0.9	-0.99	32.8	-35.5
	50 sf	0.79	-0.88	29.4	-32.1
	200 sf	0.69	-0.78	26.5	-29.2
	>500 sf	0.63	-0.72	24.6	-27.3
B	<=10 sf	0.9	-1.26	32.8	-43.7
	50 sf	0.79	-1.04	29.4	-37
	200 sf	0.69	-0.85	26.5	-31.1
	>500 sf	0.63	-0.72	24.6	-27.3



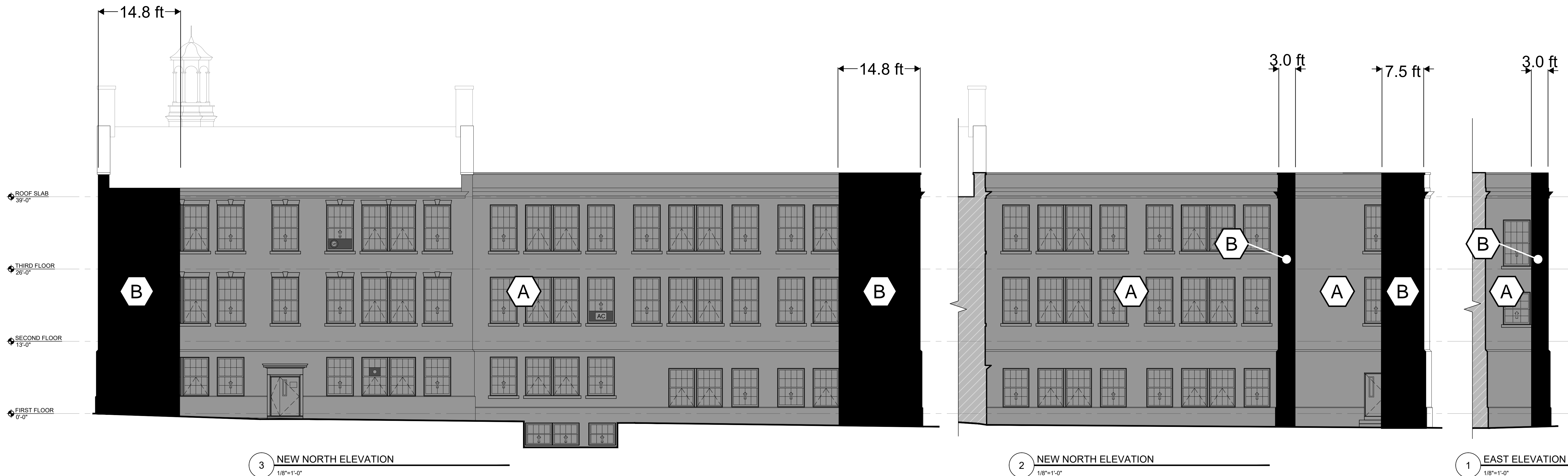
111 Devonshire St, Suite 720
Boston, MA 02109
617 695 6700

LYMAN B. GOFF
MIDDLE SCHOOL
WINDOW
REPLACEMENT

974 NEWPORT AVE.
PAWTUCKET, RI 02861

PAWTUCKET
SCHOOL
DEPARTMENT

286 MAIN ST.
PAWTUCKET, RI 02860



NOT FOR
CONSTRUCTION

PROFESSIONAL

	12-12-22	BID SET
MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO.:	22081
DRAWN BY:	AC
CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

SHEET TITLE

NEW NORTH & EAST ELEVATIONS WALL PRESSURES

SHEET

S-4

DO NOT SCALE DRAWING



Drawing name: J:_3\2022\222031_goff middle school window replacement\650-construction documents\architectural\AutoCAD\goff middle school\222031-A-101 First Floor Plans.dwg
 Dec 12, 2022 - 10:38am
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www.wesslingarchitects.com

CONSULTANTS:

PROJECT:
**LYMAN B. GOFF
MIDDLE SCHOOL
WINDOW
REPLACEMENT**

974 NEWPORT AVE.
PAWTUCKET, RI 02861

CLIENT:
**PAWTUCKET
SCHOOL
DEPARTMENT**

286 MAIN ST.
PAWTUCKET, RI 02860

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MARK	DATE	BID SET	DESCRIPTION
12-12-22			
ISSUE:			

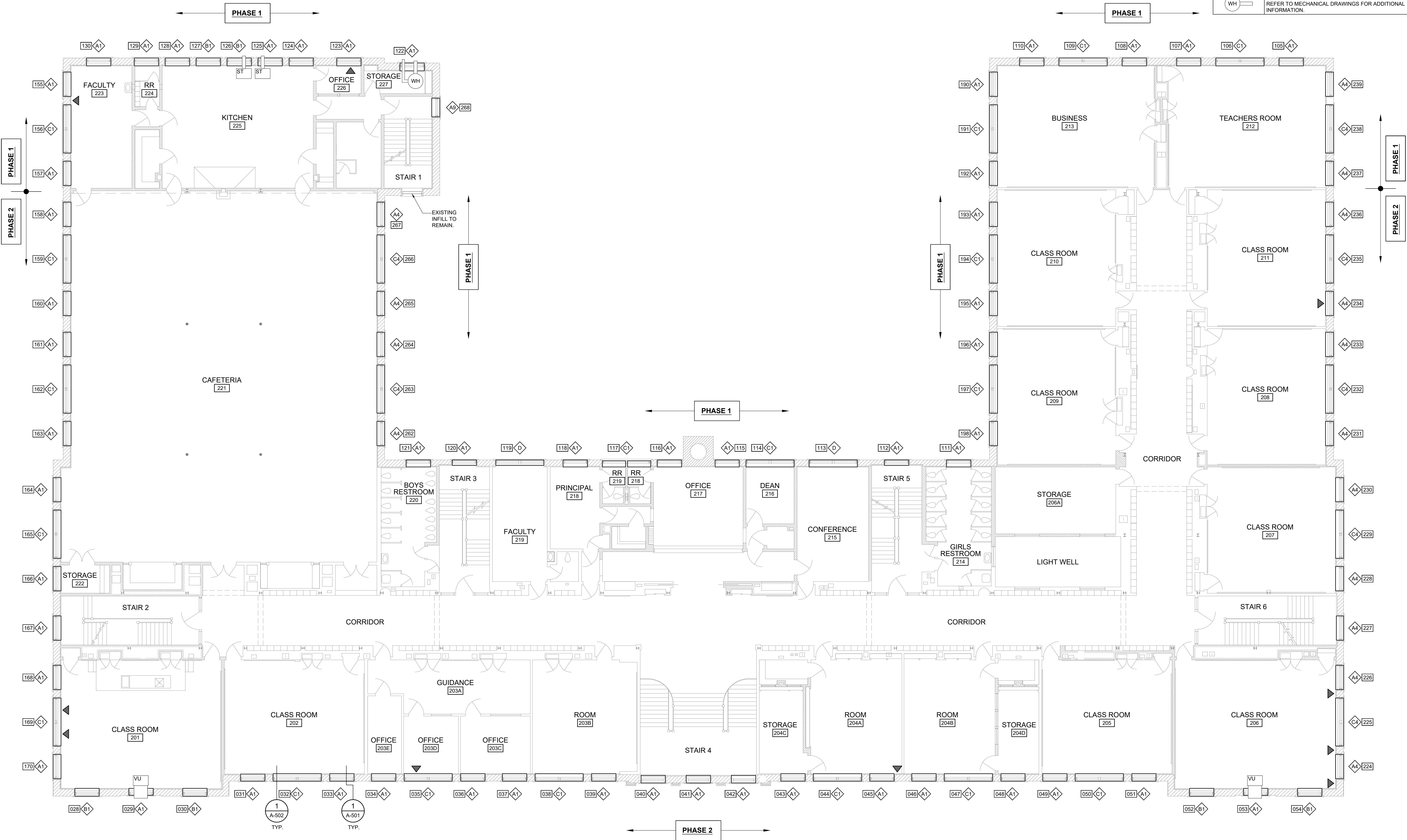
PROJECT NO.:	22081
DRAWN BY:	AC
CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

SHEET TITLE:
**SECOND
FLOOR
PLAN**

SHEET:
A-102

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SYMBOL LEGEND	
	APPROXIMATE LOCATION OF EXISTING WATER DAMAGE AT INTERIOR FINISHES. INCLUDE REPAIR OF 4 S.F. OF PLASTER/GYPSUM BOARD AT EACH LOCATION.
	VENTILATION UNIT WITH LOUVER THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	DRYER UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	NEW KILN UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	KITCHEN EQUIPMENT UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	HOT WATER TANK WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.



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

0 4'-0" 8'-0" 16'-0"

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SYMBOL LEGEND	
	APPROXIMATE LOCATION OF EXISTING WATER DAMAGE AT INTERIOR FINISHES. INCLUDE REPAIR OF 4 S.F. OF PLASTER/GYPSUM BOARD AT EACH LOCATION.
	VENTILATION UNIT WITH LOUVER THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	DRYER UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	NEW KILN UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	KITCHEN EQUIPMENT UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	HOT WATER TANK WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.



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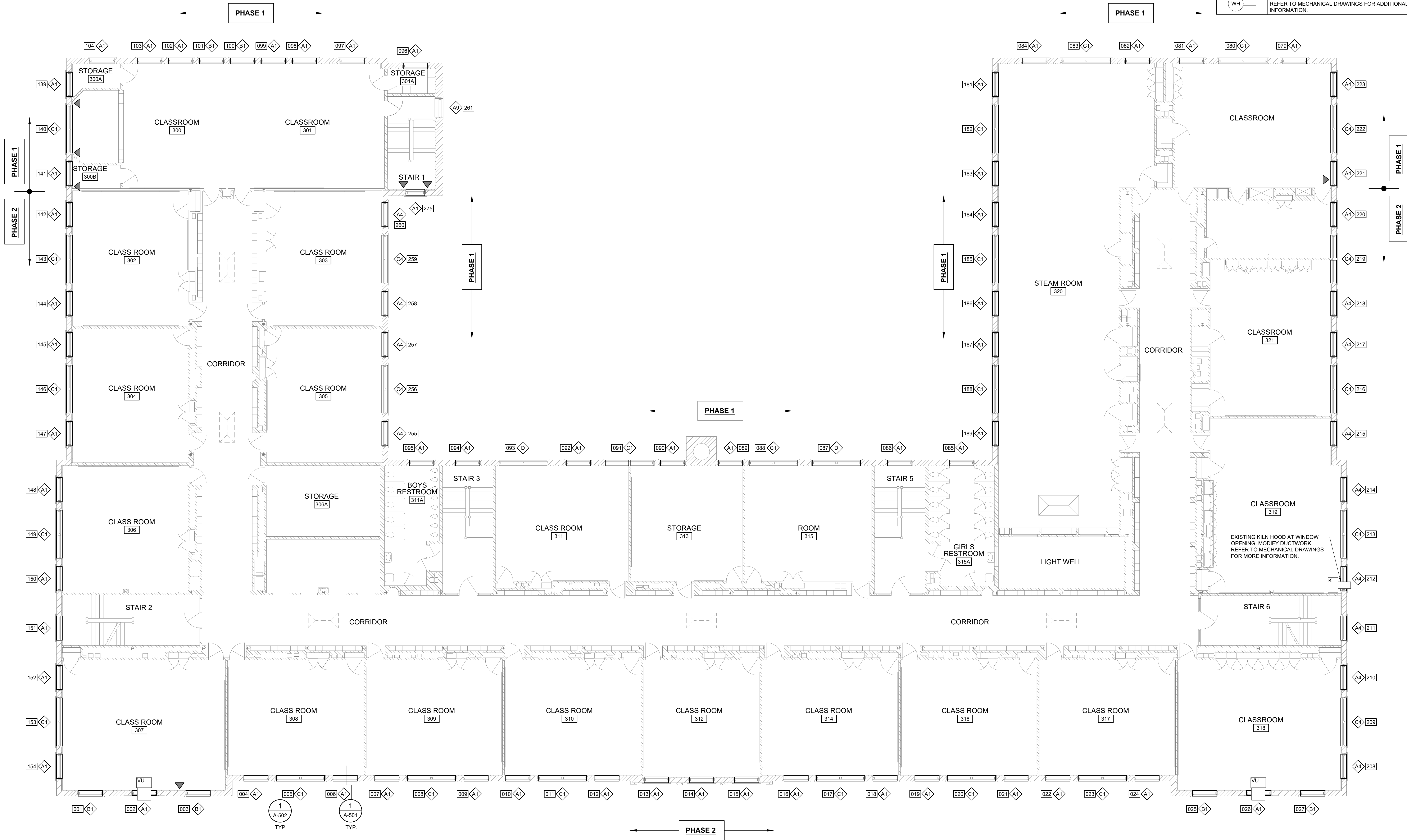
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ISSUE:			

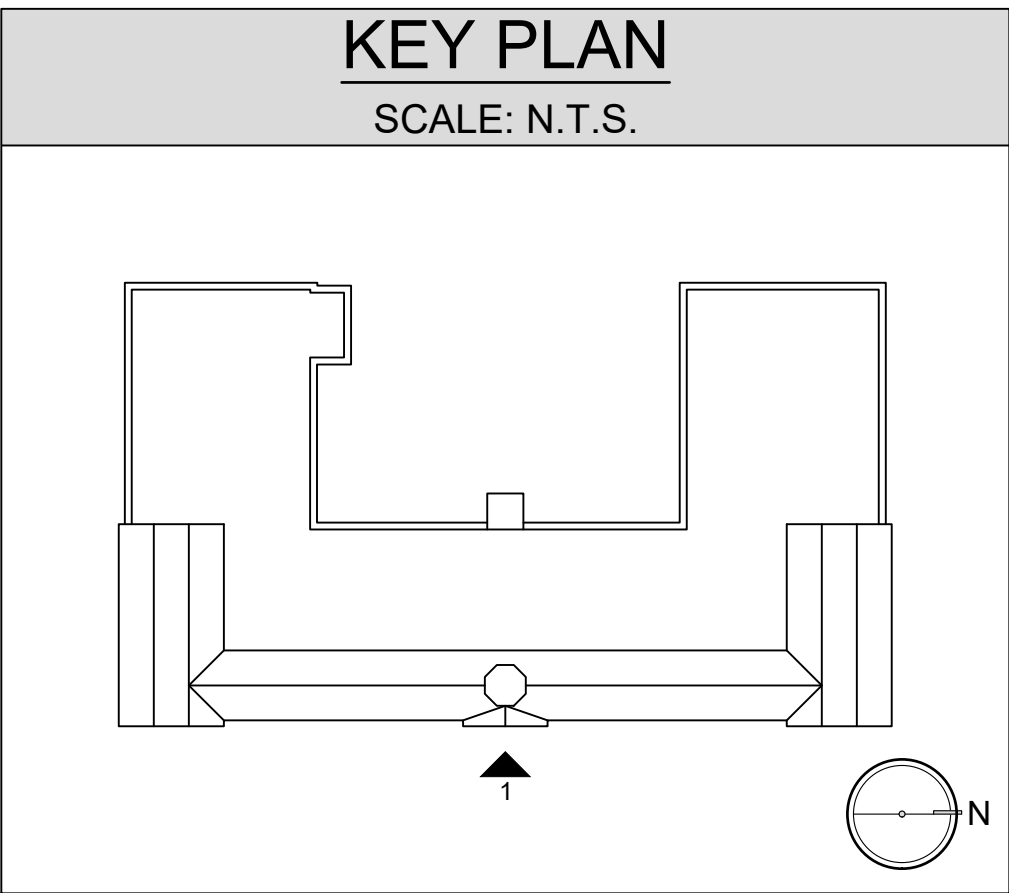
PROJECT NO.:	22081
DRAWN BY:	AC
CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

SHEET TITLE:
**THIRD
FLOOR
PLAN**

SHEET:
A-103
DO NOT SCALE DRAWING



SYMBOL LEGEND	
	EXISTING TRANSOM, DOOR, AND FRAME TO REMAIN.
	EXISTING DOOR AND FRAME TO BE REMOVED AND DISPOSED OF. TRANSOM TO REMAIN. PROTECT EXISTING TRANSOM DURING WORK.
	EXISTING WINDOW TO BE REMOVED AND DISPOSED OF.
	EXISTING WINDOW TO REMAIN.
AC	AIR CONDITIONING UNIT IN WINDOW TO BE REMOVED, STORED, AND REINSTALLED IN NEW WINDOW.
	EXISTING LOUVER BELOW WINDOW OPENING TO REMAIN.



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PROJECT:

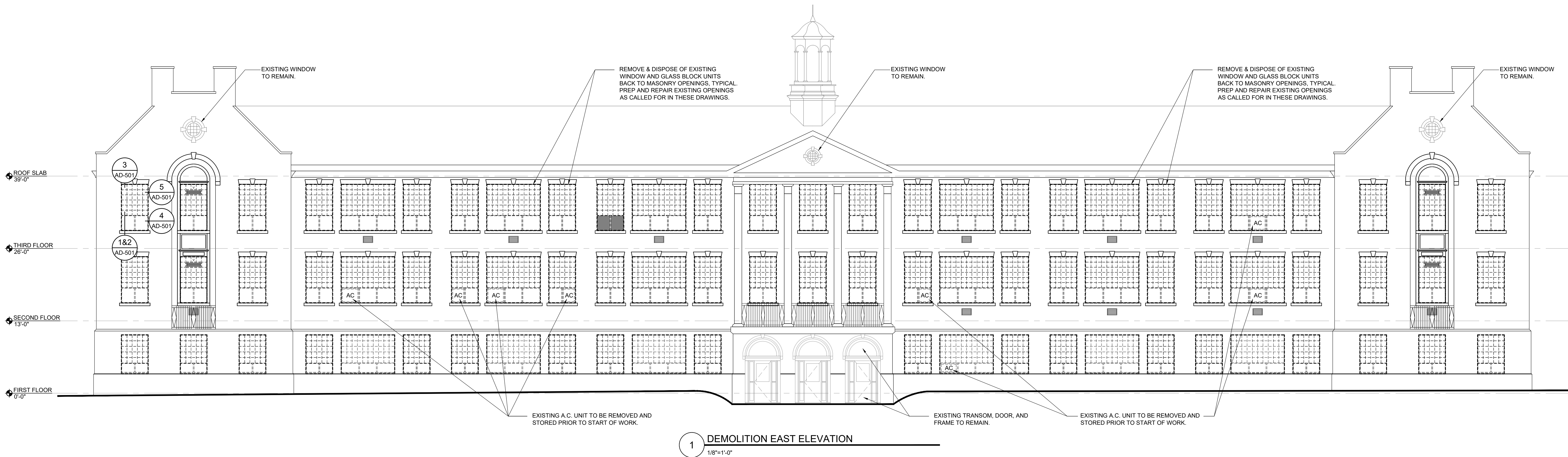
**LYMAN B. GOFF
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1 DEMOLITION EAST ELEVATION
1/8"=1'-0"

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12-12-22	BID SET	
ISSUE:		

PROJECT NO.:	22081
DRAWN BY:	AC/PB
CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

SHEET TITLE:

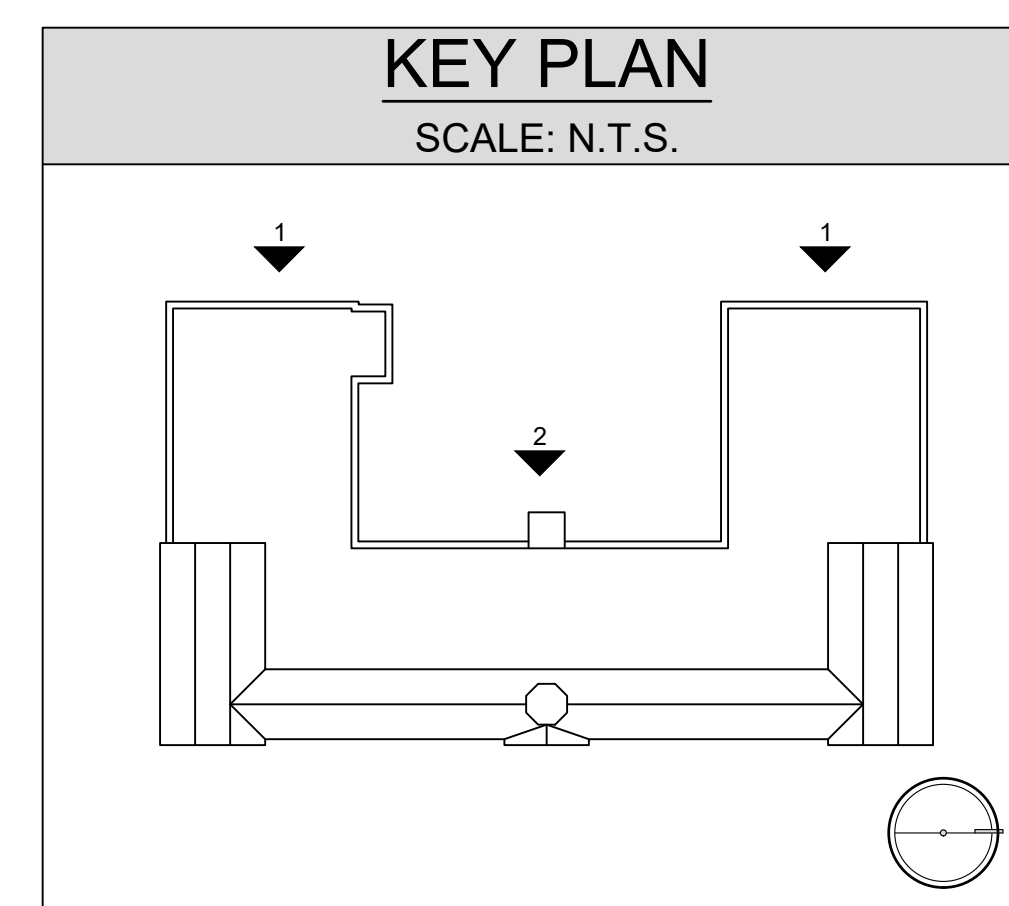
**DEMOLITION
EAST
ELEVATION**

SHEET:

AD-201

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[illegible]

PROJECT NO.:	22081
DRAWN BY:	AC/PB
CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

SHEET TITLE:

DEMOLITION WEST ELEVATIONS

SHEET:

AD-202

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[illegible]

KEY PLAN
SCALE: N.T.S.

The key plan shows a large rectangular building with a central courtyard. A small square building is located in the courtyard. An arrow points to the subject building, which is a small rectangular structure located on the right side of the main building. A north arrow is located in the bottom right corner, and a scale of N.T.S. is indicated.



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CLIENT

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	12-12-22	BID SET
MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO.:	22081
DRAWN BY:	AC/PB
CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

SHEET TITLE

DEMOLITION
SOUTH
ELEVATIONS

SHEET

AD-203

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[illegible]

KEY PLAN
SCALE: N.T.S.

The key plan shows a building layout with a central corridor. On the left side of the corridor is a large room, and on the right side is a smaller room. Room 1 is located in the large room on the left, and Room 2 is located in the smaller room on the right. A north arrow is located in the bottom right corner.



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PROJECT NO.:	22081
DRAWN BY:	AC/PB
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SHEET TITLE

DEMOLITION
NORTH AND EAST
ELEVATIONS

SHEET

AD-204

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KEY PLAN
SCALE: N.T.S.

The key plan shows the building's footprint with a section line (indicated by a circle and a line) passing through the central part of the building. A north arrow is located in the bottom right corner of the plan.

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[illegible]

PROJECT NO.:	22081
DRAWN BY:	AC
CHECKED BY:	SAW/JS
DRAWING SCALE:	AS NOTE

SHEET TITLE:

NEW
EAST
ELEVATION

SHEET:

A-201

DO NOT SCALE DRAWING

KEY PLAN
SCALE: N.T.S.

The key plan shows a U-shaped building with a central courtyard. A section line is indicated by a line with arrows and the number 1. A key symbol is shown in the center of the courtyard, labeled with the number 2. A north arrow is located in the bottom right corner.

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[illegible]

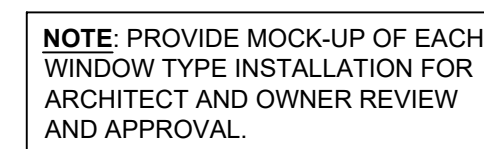
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DRAWN BY:	AC
CHECKED BY:	SAW/JS
DRAWING SCALE:	AS NOTED

SHEET TITLE:

NEW
WEST
ELEVATIONS

SHEET: **A-202**

DO NOT SCALE DRAWING



NOTE: PROVIDE MOCK-UP OF EACH WINDOW TYPE INSTALLATION FOR ARCHITECT AND OWNER REVIEW AND APPROVAL.

KEY PLAN
SCALE: N.T.S.

The key plan shows a U-shaped building footprint. A horizontal section line, labeled 1-1, passes through the center of the building. Arrows at both ends of this line indicate the direction of the section. A north arrow is positioned in the lower right corner of the plan.

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[illegible]

PROJECT NO.:	22081
DRAWN BY:	AC
CHECKED BY:	SAW/JS
DRAWING SCALE:	AS NOTED

SHEET TITLE:

NEW
SOUTH
ELEVATIONS

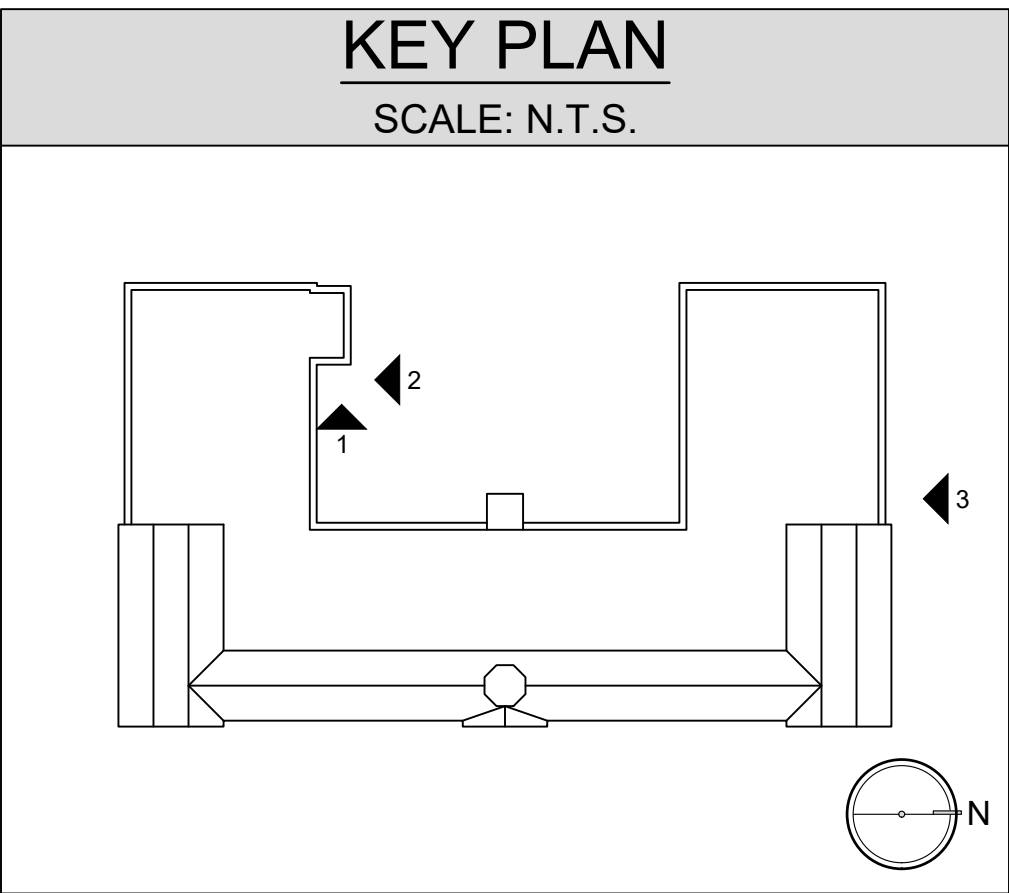
SHEET:

A-203

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NEW ELEVATION REPAIR LEGEND		SYMBOL LEGEND	
NOTE: LOCATIONS IDENTIFIED ON THE ELEVATIONS ARE REPRESENTATIVE OF THE TYPES OF REPAIRS. CARRY MINIMUM ALLOWANCES AND UNIT PRICES BEYOND THOSE AREAS IDENTIFIED ON THE ELEVATIONS. REFER TO G-001 GENERAL REFERENCE SHEET AND SPECIFICATIONS FOR MORE INFORMATION.			REMOVE AND REPLACE CRACKED BRICK (LINEAR FEET) SEE DETAIL 9/A-504.
			REMOVE AND REPLACE DETERIORATED WOOD TRIM (AREA)
			REMOVE AND REPLACE BACKER ROD AND SEALANT (LINEAR FEET)
			CLEAN RUSTED LINTEL AND PAINT (UNIT) SEE DETAILS 3/A-501, 3/A-502, AND 10/A-504.
			CLEAN RUST STAINING (SQUARE FEET)
	ROUTE AND SEAL CRACKED CONCRETE (LINEAR FEET) SEE DETAIL 3/A-504.		CLEAN ENVIRONMENTAL STAINING (SQUARE FEET)
	REPAIR CRACK IN LIMESTONE SILL (LINEAR FEET) SEE DETAIL 4/A-504.		EXISTING CRACK EXTENTS
	REPAIR SPALLED CONCRETE (SQUARE FEET) SEE DETAIL 1/A-504.		
	REMOVE AND REPLACE DETERIORATED MORTAR JOINT (LINEAR FEET) SEE DETAIL 5/A-504.		
			EXISTING DOOR, FRAME AND TRANSOM TO REMAIN.
			NEW DOOR AND FRAME WITH EXISTING TRANSOM TO REMAIN.
			NEW SINGLE HUNG WINDOW.
			NEW INSWING WINDOW.
			EXISTING WINDOW TO REMAIN.
			VENT PIPE / FLUE THROUGH WINDOW. SEE DETAIL 6/A-502.
			AIR CONDITIONING UNIT IN WINDOW. SEE DETAIL 6/A-501.
			EXISTING LOUVER BELOW WINDOW OPENING TO REMAIN.
			AREA OF METAL PANEL WITH APPLIED MUNTINS WITHIN WINDOW.
			NEW VENTILATION LOUVER THROUGH WINDOW WITHIN METAL PANEL. SEE DETAIL 7/A-502.



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PROJECT:

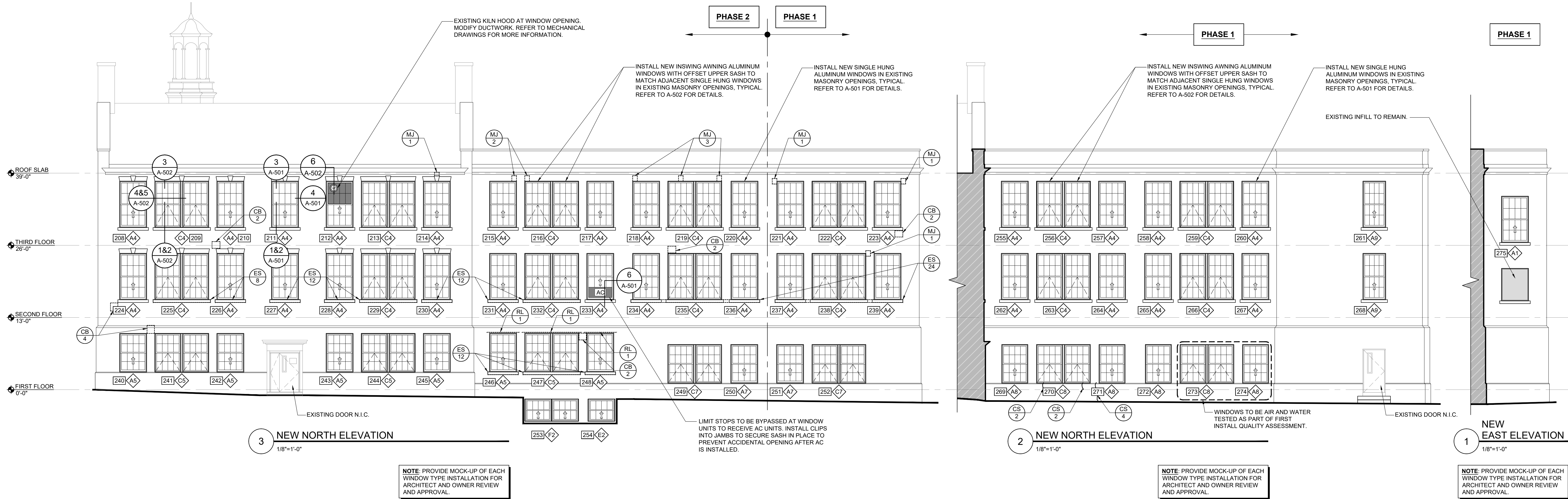
**LYMAN B. GOFF
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REPLACEMENT**

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CLIENT:

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PROJECT NO.:	22081
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DRAWING SCALE:	AS NOTED

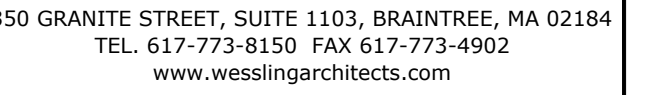
SHEET TITLE:
**NEW
NORTH AND EAST
ELEVATIONS**

SHEET:

A-204

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WINDOW
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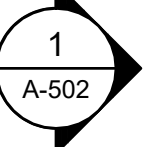
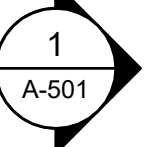
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PROJECT NO.:	22081
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CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

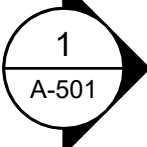
NEW TYPICAL WINDOW BAY

A-401

DO NOT SCALE DRAWING



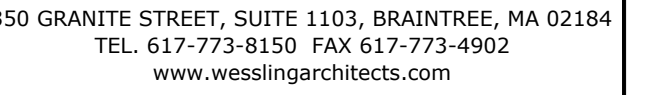
1 NEW TYPICAL WINDOW BAY
1 1/2"=1'-0"

$$1\frac{1}{2}'' = 1'-0''$$


NOTE: REFER TO DETAILS 5+6/A-501 + 6/A-502 AND ELEVATIONS FOR INFORMATION RELATED TO AC UNITS, LOUVERS, FLUES SET WITHIN WINDOWS

NOTE: REFER TO DETAILS 5+6/A-501 + 6/A-502 AND ELEVATIONS FOR INFORMATION RELATED TO AC UNITS, LOUVERS, FLUES SET WITHIN WINDOWS

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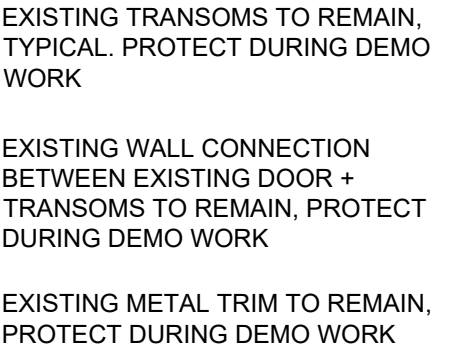
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PROJECT NO.:	22081
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DRAWING SCALE:	AS NOTED

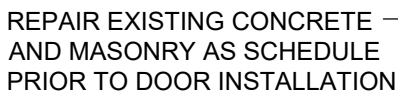
DEMOLITION DOOR DETAILS

AD-502

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REMOVE EXISTING METAL DOORS, —
FRAMES, AND HARDWARE, BACK TO
MASONRY OPENING TYPICAL.

$$6'' = 1'-0''$$


3

6" = 1'-0"



1

6' = 1'-0"

WUP FRIGHT 131EFHEIN J. WESSLING ARCHITECTS INC. 2022

Drawing name: V3_SJW022022-22081_goff middle school window replacement50-construction documents\architectural\busCAD\goff middle school\Shades\22081 AD-S02 Dorelition Door Details.dwg
Date: 2022 - 10-10am
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Xref(s): _; gwp022022-22081_goff middle school window replacemnt50-construction documents\architectural\buscad\goff middle school\www\Architecture\22081_Details - Doors.dwg

PROJECT:
**LYMAN B. GOFF
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WINDOW
REPLACEMENT**

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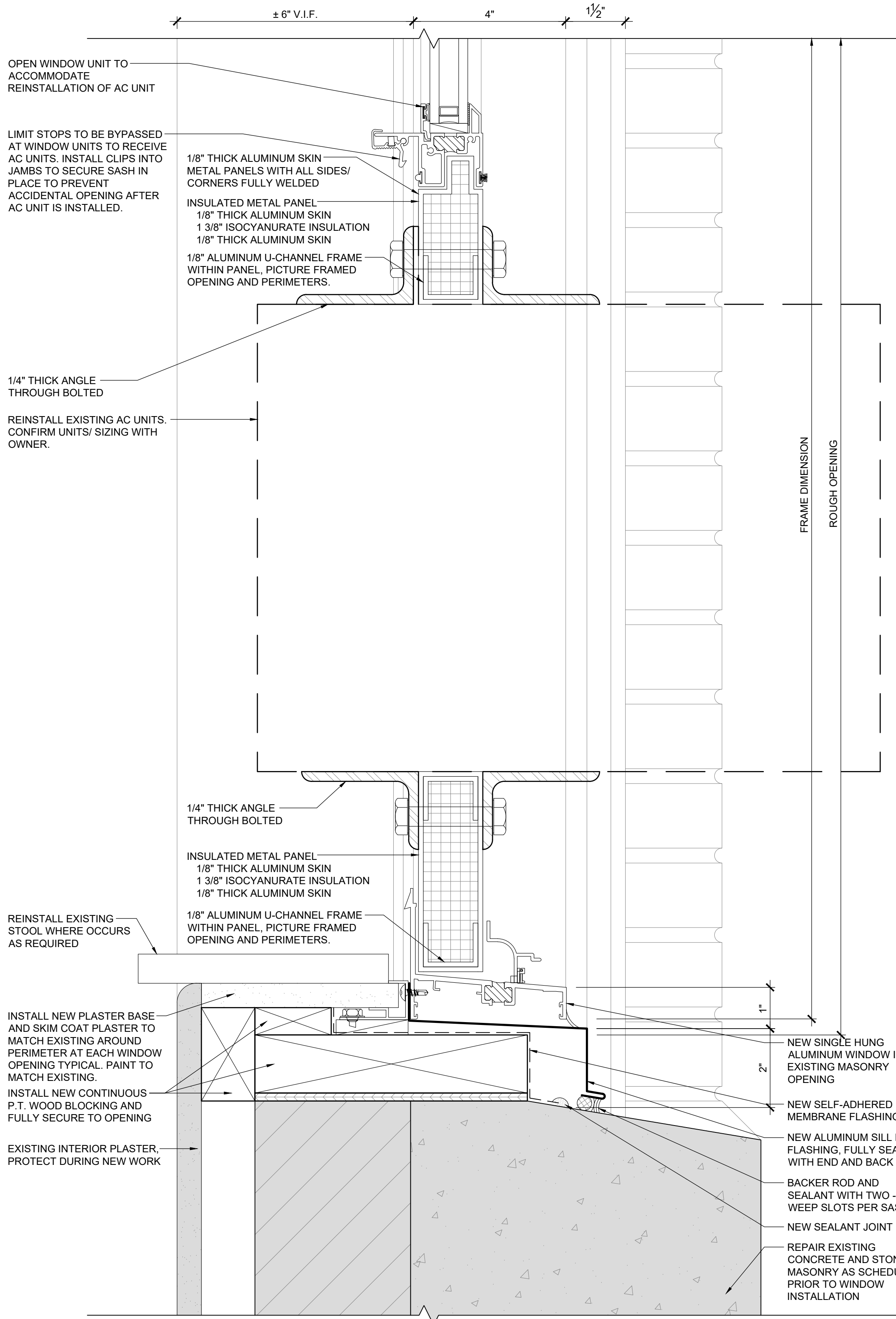
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MARK	DATE	BID SET	DESCRIPTION
	12-12-22	BID SET	
ISSUE:			

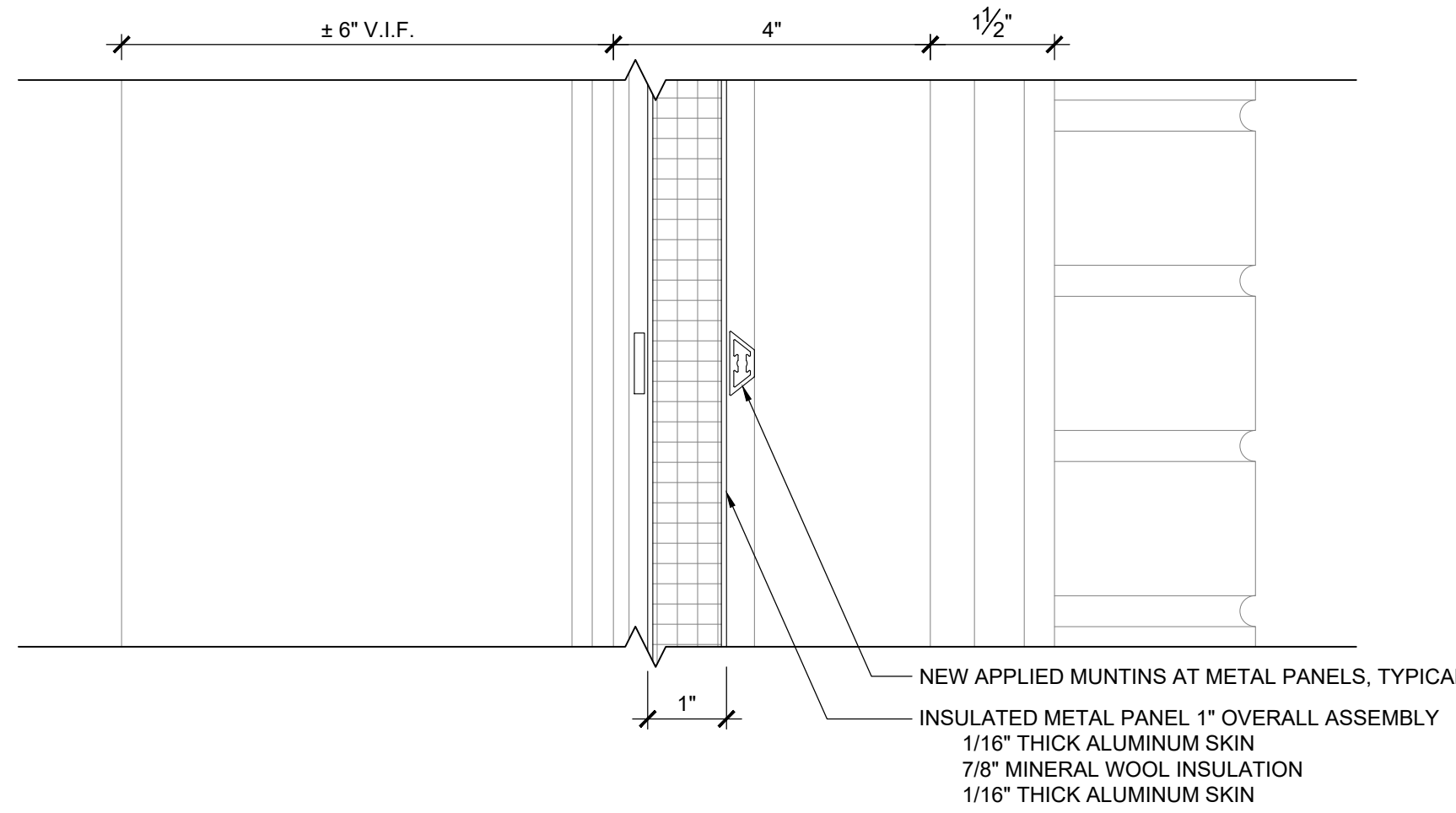
PROJECT NO.: 22081
DRAWN BY: LAP/JAC
CHECKED BY: SAW/JSG
DRAWING SCALE: AS NOTED

SHEET TITLE:
**NEW
SINGLE HUNG
WINDOW DETAILS**

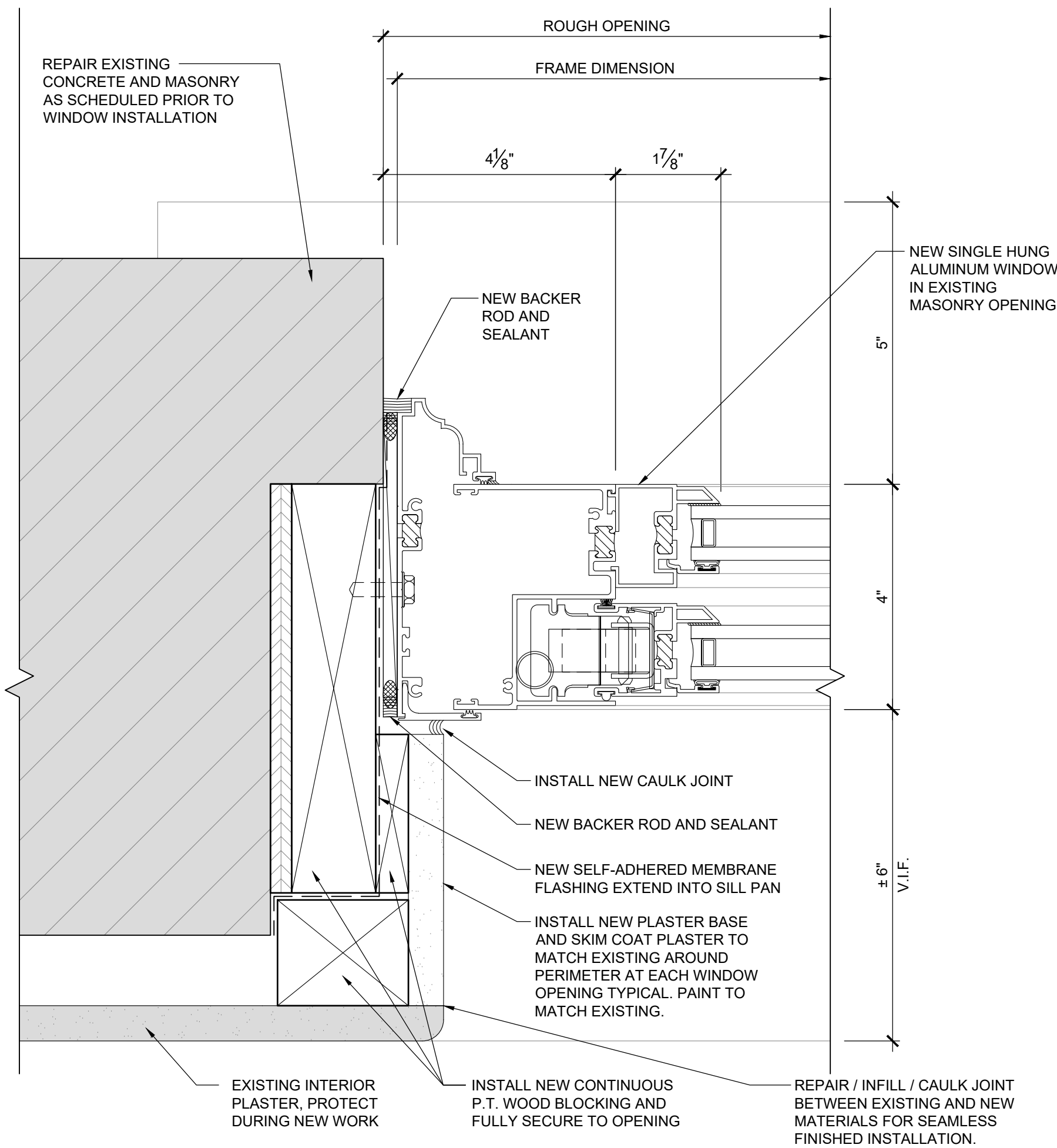
SHEET:
A-501
DO NOT SCALE DRAWING



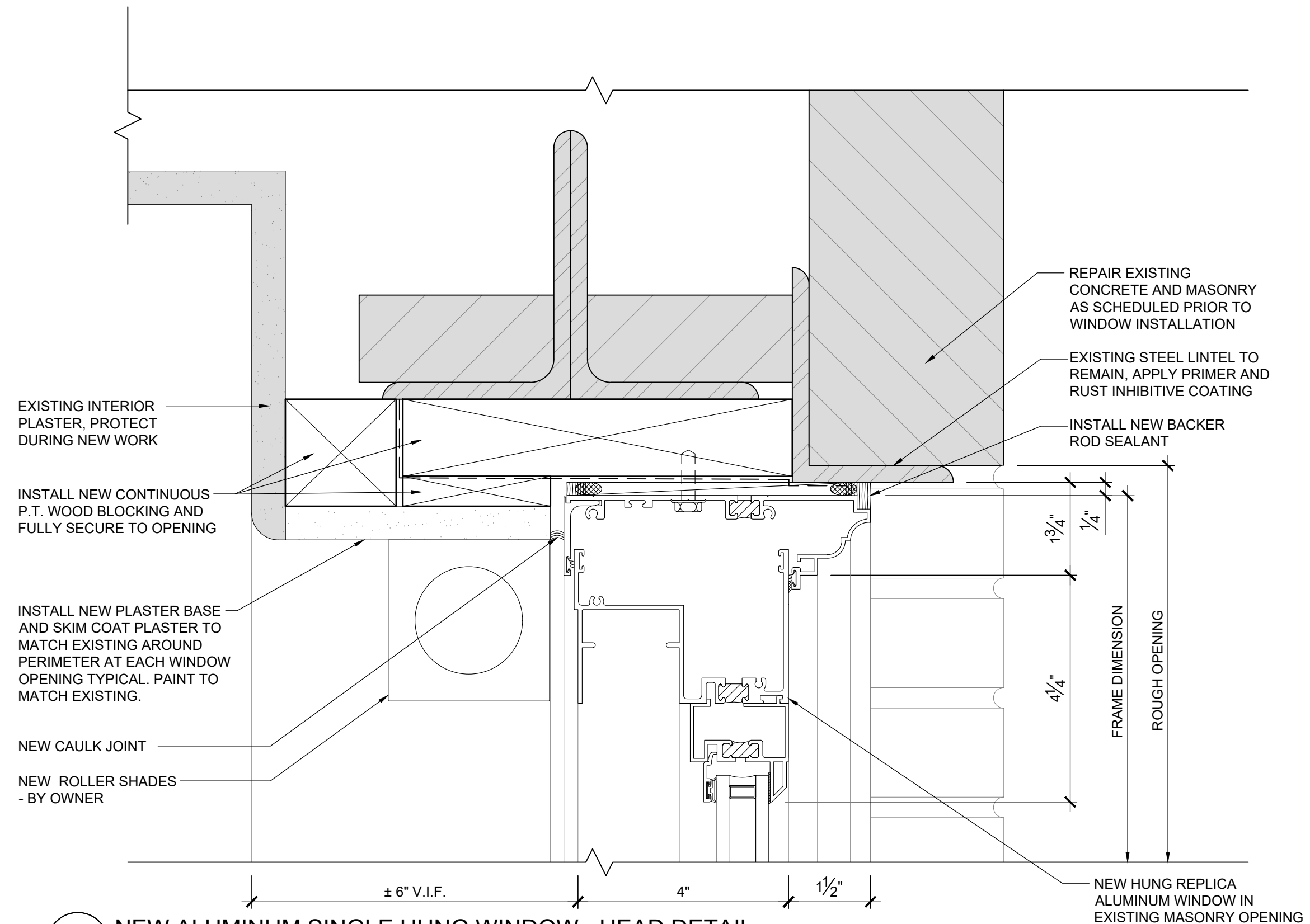
6 NEW ALUMINUM SINGLE HUNG WINDOW - SILL DETAIL AT AC UNIT
6" = 1'-0"



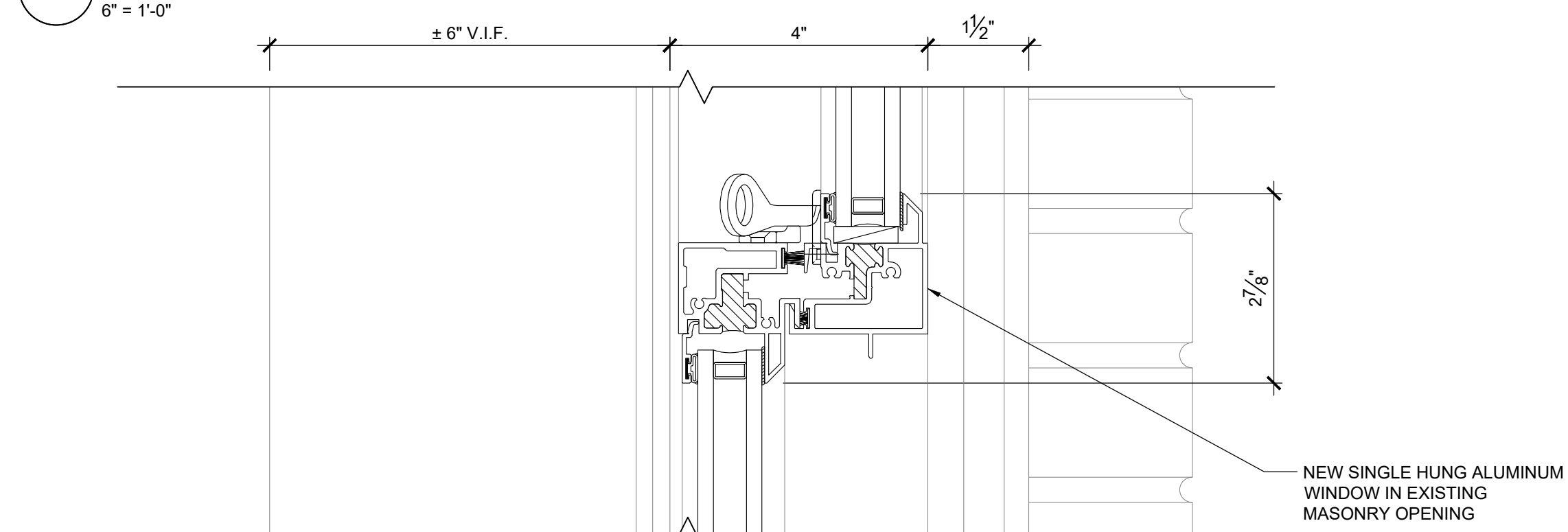
5 NEW INSULATED METAL PANEL AT WINDOW SASH DETAIL
6" = 1'-0"



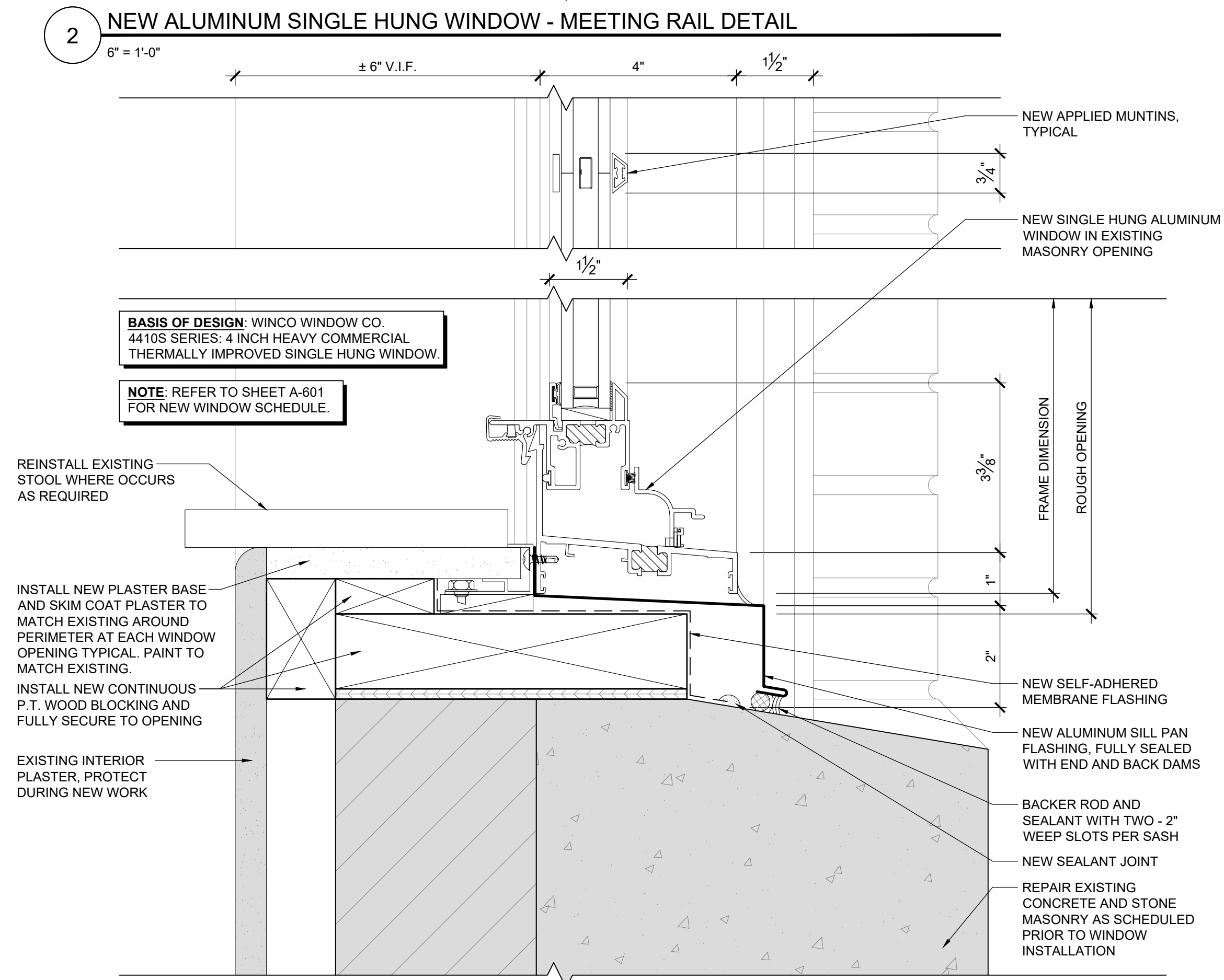
4 NEW ALUMINUM SINGLE HUNG WINDOW - JAMB DETAIL
6" = 1'-0"



3 NEW ALUMINUM SINGLE HUNG WINDOW - HEAD DETAIL
6" = 1'-0"



2 NEW ALUMINUM SINGLE HUNG WINDOW - MEETING RAIL DETAIL
6" = 1'-0"



1 NEW ALUMINUM SINGLE HUNG WINDOW - SILL DETAIL
6" = 1'-0"

PROJECT:
**LYMAN B. GOFF
MIDDLE SCHOOL
WINDOW
REPLACEMENT**

974 NEWPORT AVE.
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CLIENT:
**PAWTUCKET
SCHOOL
DEPARTMENT**

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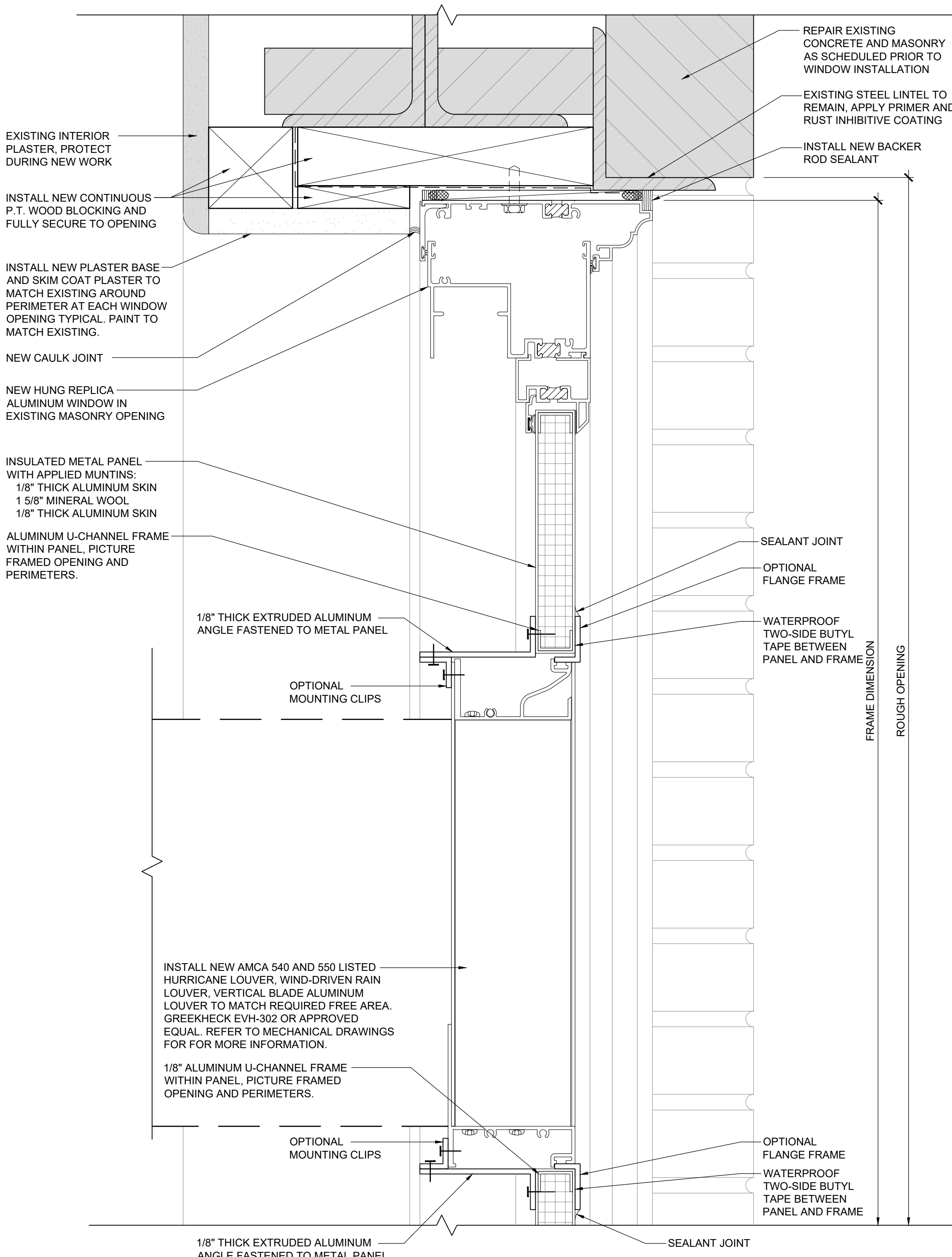
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alteration made to this item must be accompanied
by a specific description of change or changes
made; date change was made, as well as the seal
of the licensed architect who made or oversaw the
changes.

MARK	DATE	BID SET	DESCRIPTION
	12-12-22	BID SET	
ISSUE:			

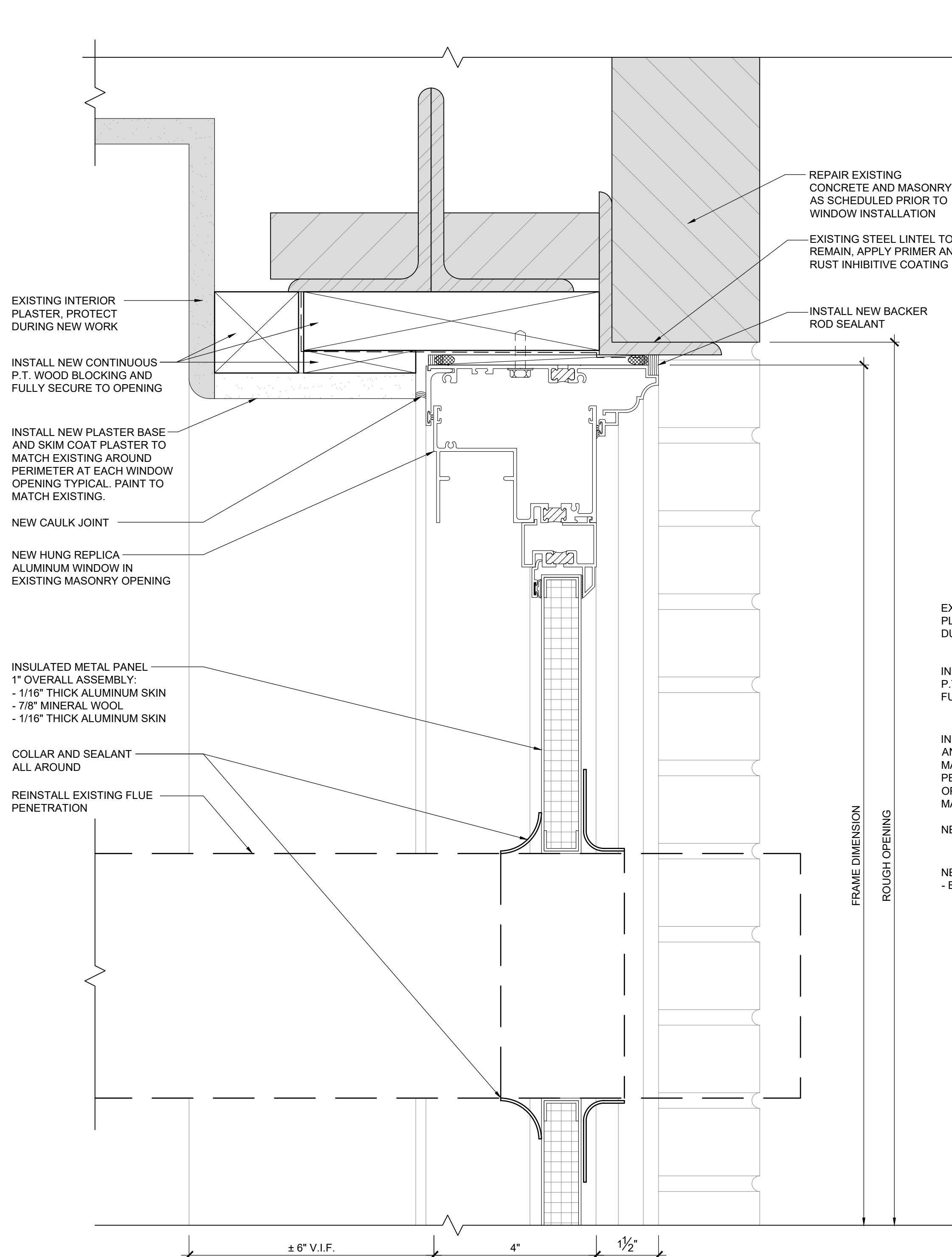
PROJECT NO.: 22081
DRAWN BY: LAP/JAC
CHECKED BY: SAW/JSG
DRAWING SCALE: AS NOTED

SHEET TITLE:
**NEW
INSWING AWNING
WINDOW DETAILS**

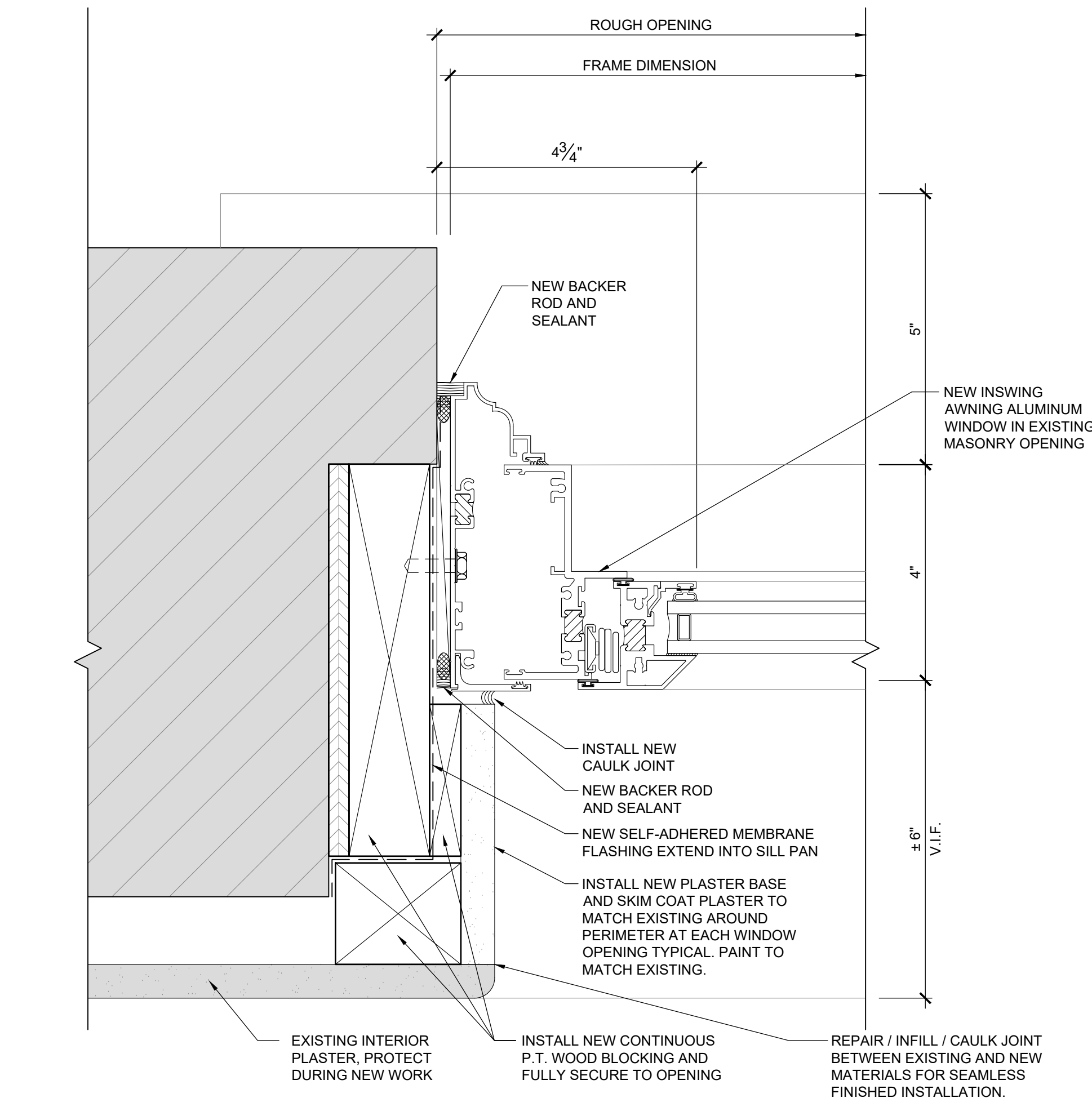
SHEET:
A-502
DO NOT SCALE DRAWING



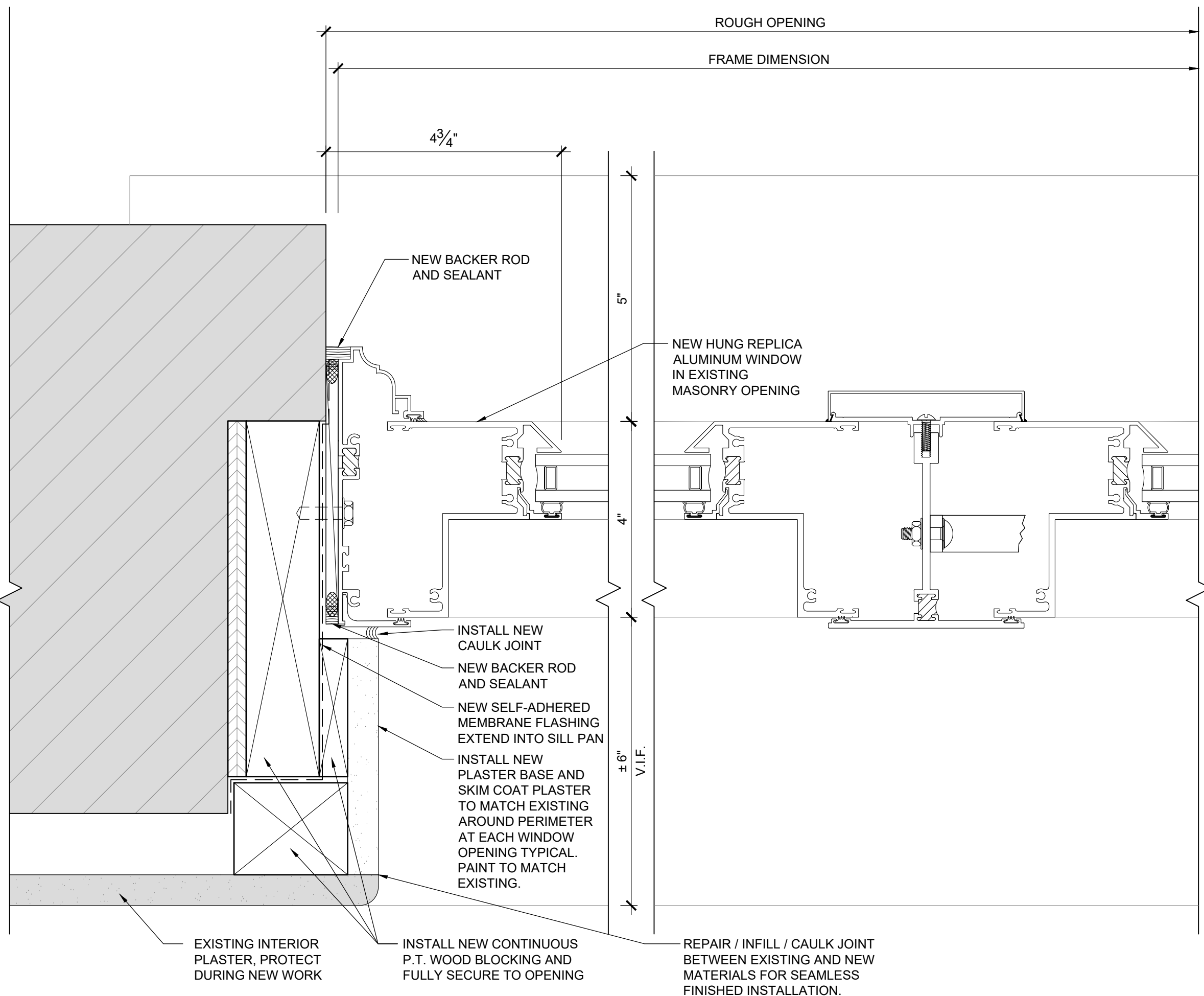
7 NEW ALUMINUM HUNG REPLICA AWNING WINDOW - LOUVER AT WINDOW SASH
6' = 1'-0"



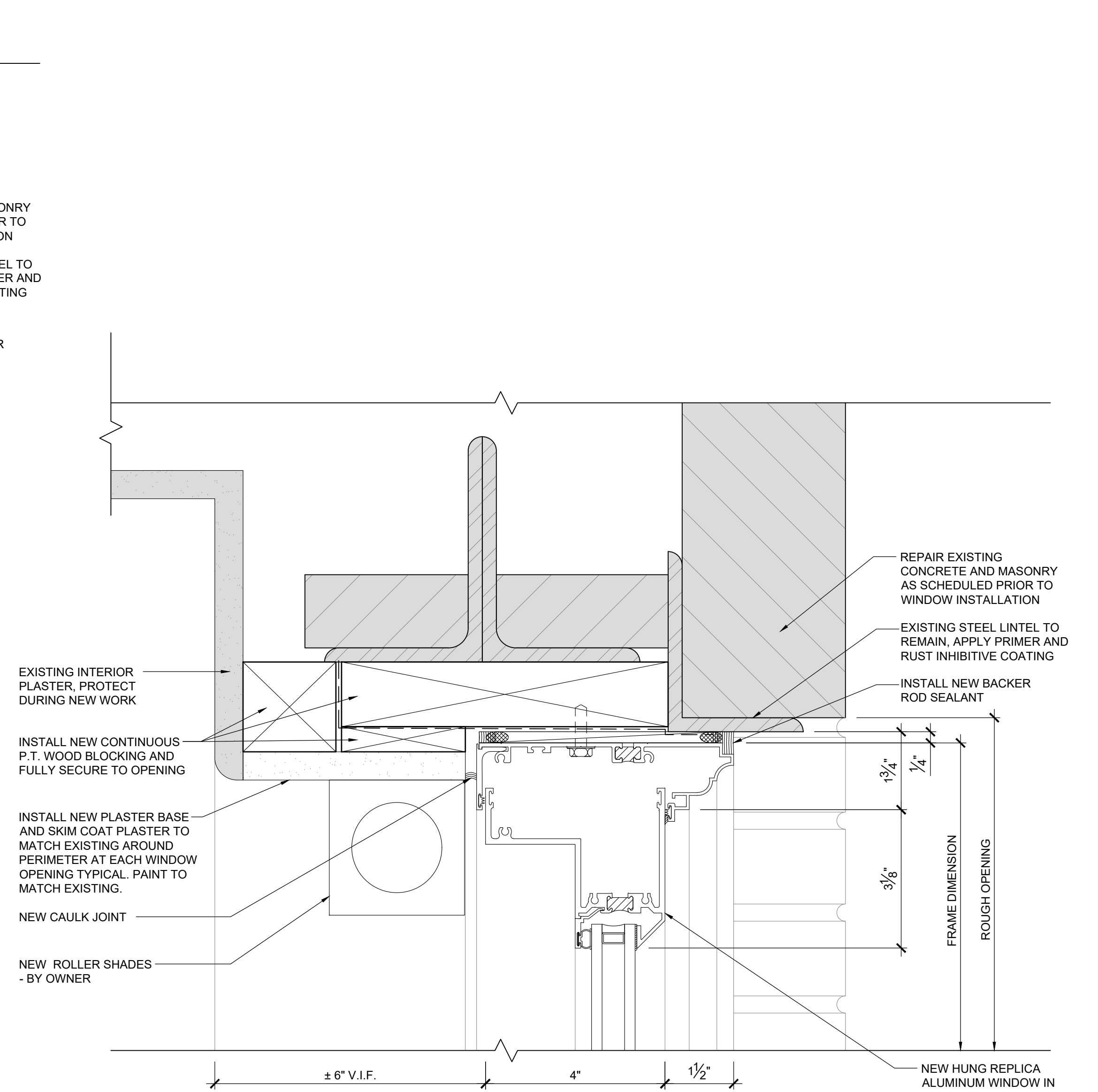
6 NEW ALUMINUM HUNG REPLICA AWNING WINDOW - FLUE AT METAL PANEL
6' = 1'-0"



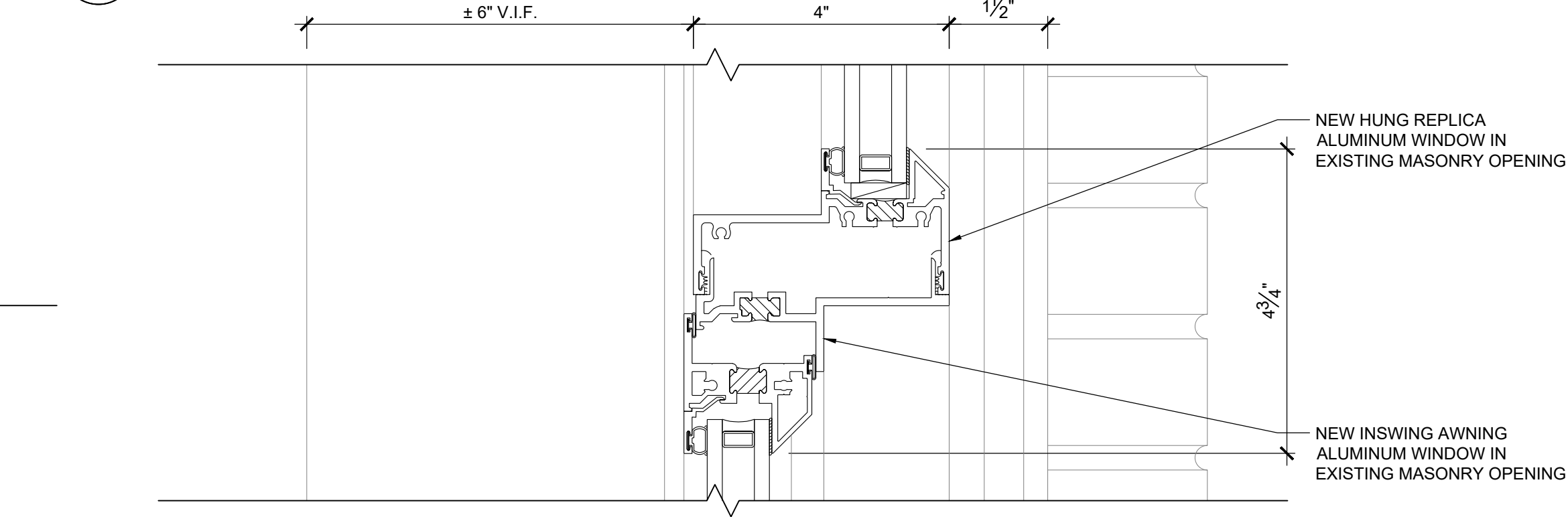
5 NEW ALUMINUM INSWING AWNING WINDOW - JAMB DETAIL
6' = 1'-0"



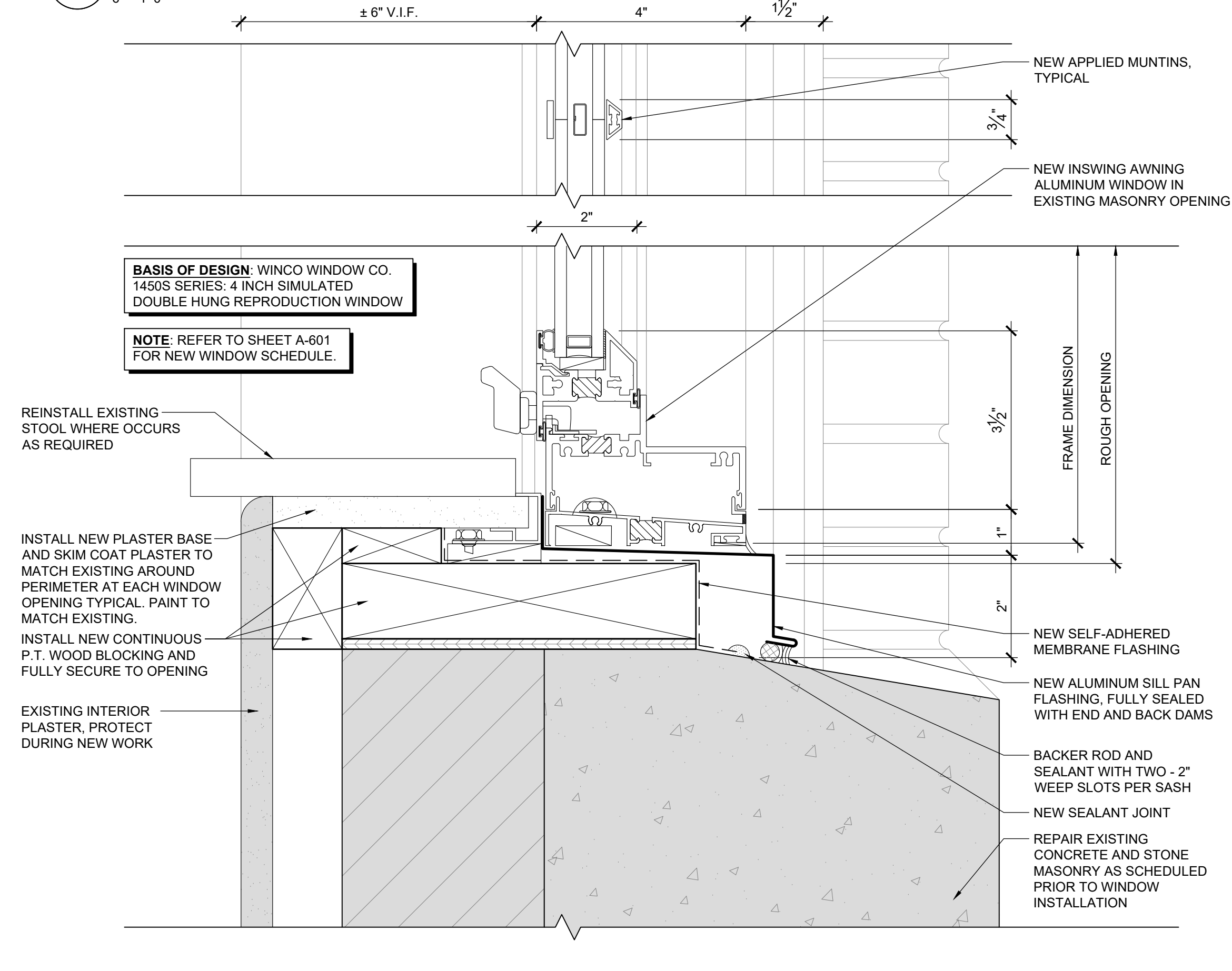
4 NEW ALUMINUM HUNG REPLICA AWNING WINDOW - JAMB AND VERTICAL MULLION DETAILS
6' = 1'-0"



3 NEW ALUMINUM HUNG REPLICA WINDOW - HEAD DETAIL
6' = 1'-0"

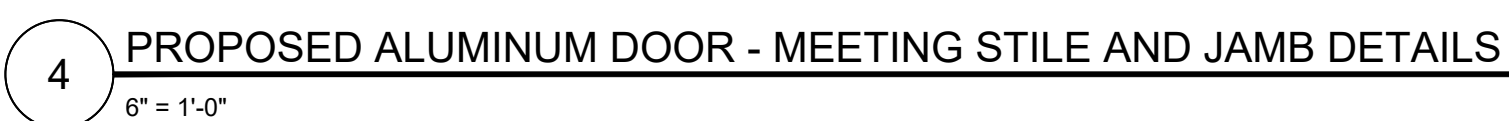


2 NEW ALUMINUM INSWING AWNING WINDOW - MEETING RAIL DETAIL
6' = 1'-0"



1 NEW ALUMINUM INSWING AWNING WINDOW - SILL DETAIL
6' = 1'-0"

BASIS OF DESIGN: WINCO WINDOW CO.
1405S SERIES: 4 INCH SIMULATED
DOUBLE HUNG REPRODUCTION WINDOW
NOTE: REFER TO SHEET A-601
FOR NEW WINDOW SCHEDULE.



NOTE: NEW AREA OF CONCRETE REPAIR SHALL MATCH EXISTING ADJACENT CONCRETE IN PROFILE, TEXTURE AND FINISH.

SCALE: $\frac{1}{2}" = 1'-0"$



NOTE: REFER TO ELEVATIONS FOR SCOPE OF WORK LOCATIONS



SCALE: $\frac{1}{2}" = 1'-0"$



NOTE: REFER TO ELEVATIONS FOR SCOPE OF WORK LOCATIONS



NOTE: REFER TO ELEVATIONS FOR SCOPE OF WORK LOCATIONS

NOTE: REFER TO ELEVATIONS FOR SCORE OF WORK LOCATIONS



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NOTE: REFER TO ELEVATIONS FOR SCORE OF WORK LOCATIONS



NOTE: REFER TO ELEVATIONS FOR SCOPE OF WORK LOCATIONS.



MP WHERE
REQUIRED

1T WHERE
REQUIRED

NOTE: REFER TO ELEVATIONS FOR SCOPE OF WORK LOCATIONS.

MARK	ROUGH OPENING		QTY (x V.I.F.)	OPER ATION	GLZ TYPE	LITES	DETAIL				NOTES
	WIDTH (x V.I.F.)	HEIGHT (x V.I.F.)					HEAD	JAMB	SILL	MTG RAIL	
A1	58"	100"	105	DH	1	8 OVER 8	3/A-501	4/A-501	1/A-501	2/A-501	APPLIED MUNTINS
A2	58"	84"	22	DH	1	8 OVER 8	3/A-501	4/A-501	1/A-501 SIM.	2/A-501	APPLIED MUNTINS
A3	58"	84"	4	DH	3	8 OVER 8	3/A-501	4/A-501	1/A-501 AUDITORIUM	2/A-501	APPLIED MUNTINS AUDITORIUM
A4	58"	100"	30	DH	1N	8 OVER 8	3/A-501	4/A-501	1/A-501 SIM.	2/A-501	APPLIED MUNTINS NORTH ELEVATION
A5	58"	84"	6	DH	1	8 OVER 8	3/A-501	4/A-501	1/A-501 SIM.	2/A-501	APPLIED MUNTINS
A6	58"	84"	2	FIXED	2	8 OVER 8	3/A-501 SIM.	4/A-501 SIM.	1/A-501 SIM.	2/A-501 SIM.	APPLIED MUNTINS GYMNASIUM
A7	58"	84"	2	FIXED	1N, 2	8 OVER 8	3/A-501 SIM.	4/A-501 SIM.	1/A-501 SIM.	2/A-501 SIM.	APPLIED MULLIONS GYMNASIUM, NORTH ELEVATION
A8	58"	84"	4	DH	1N, 3	8 OVER 8	3/A-501	4/A-501	1/A-501 SIM.	2/A-501	APPLIED MULLIONS AUDITORIUM, NORTH ELEVATION
A9	48"	100"	2	DH	1N	8 OVER 8	3/A-501	4/A-501	1/A-501	2/A-501	APPLIED MULLIONS NORTH ELEVATION
B1	58"	100"	12	AWN	1	8 OVER 8	3/A-502	5/A-502	1/A-502	2/A-502	APPLIED MUNTINS
B2	58"	84"	5	AWN	1	8 OVER 8	3/A-502	5/A-502	1/A-502 SIM.	2/A-502	APPLIED MUNTINS
C1	116"	100"	36	AWN	1	16 OVER 16 / (2) 8 OVER 8	3/A-502	4&5/A-502	1/A-502	2/A-502	APPLIED MUNTINS
C2	116"	84"	9	AWN	1	16 OVER 16 / (2) 8 OVER 8	3/A-502	4&5/A-502	1/A-502 SIM.	2/A-502	APPLIED MUNTINS
C3	116"	84"	3	AWN	3	16 OVER 16 / (2) 8 OVER 8	3/A-502	4&5/A-502	1/A-502	2/A-502	APPLIED MUNTINS AUDITORIUM
C4	116"	100"	14	AWN	1N	16 OVER 16 / (2) 8 OVER 8	3/A-502	4&5/A-502	1/A-502	2/A-502	APPLIED MUNTINS NORTH ELEVATION
C5	116"	84"	3	AWN	1N	16 OVER 16 / (2) 8 OVER 8	3/A-502	4&5/A-502	1/A-502 SIM.	2/A-502	APPLIED MUNTINS NORTH ELEVATION
C6	116"	84"	2	FIXED	2	16 OVER 16 / (2) 8 OVER 8	3/A-502 SIM.	4&5/A-502 SIM.	1/A-502 SIM.	2/A-502 SIM.	APPLIED MUNTINS GYMNASIUM
C7	116"	84"	2	FIXED	1N, 2	16 OVER 16 / (2) 8 OVER 8	3/A-502 SIM.	4&5/A-502 SIM.	1/A-502 SIM.	2/A-502 SIM.	APPLIED MUNTINS GYMNASIUM, NORTH ELEVATION
C8	116"	84"	2	AWN	1N, 3	16 OVER 16 / (2) 8 OVER 8	3/A-502	4&5/A-502	1/A-502 SIM.	2/A-502	APPLIED MUNTINS AUDITORIUM, NORTH ELEVATION
D	116"	100"	4	DH	1	16 OVER 16 / (2) 8 OVER 8	3/A-501	4&5/A-501	1/A-501	2/A-501	APPLIED MUNTINS
E1	58"	48"	1	DH	1	4 OVER 4	3/A-501	4/A-501	1/A-501 SIM.	2/A-501	APPLIED MUNTINS IN AREAWAY
E2	58"	48"	1	DH	1N	4 OVER 4	3/A-501	4/A-501	1/A-501 SIM.	2/A-501	APPLIED MUNTINS IN AREAWAY, NORTH ELEVATION
F1	116"	48"	1	DH	1	8 OVER 8 / (2) 4 OVER 4	3/A-501	4/A-501	1/A-501 SIM.	2/A-501	APPLIED MUNTINS IN AREAWAY
F2	116"	48"	1	DH	1N	8 OVER 8 / (2) 4 OVER 4	3/A-501	4/A-501	1/A-501 SIM.	2/A-501	APPLIED MUNTINS IN AREAWAY, NORTH ELEVATION
G	116"	72"	2	DH	1	16 OVER 16 / (2) 8 OVER 8	3/A-501	4/A-501	1/A-501 SIM.	2/A-501	APPLIED MUNTINS IN AREAWAY

AIR	0.20 CFM/FT ²
WATER	6.0 LB/FT ² MINIMUM
MINIMUM STRUCTURAL PRESSURE	60 LB/FT ²
DEFLECTION DESIGN PRESSURE	L / 175
U-VALUE	0.45
SHG COEFFICIENT	SEW N 0.51 0.38
DESIGN PRESSURE	40 PSF (ZONE 4 - FIELD WALL PRESSURE) 47 PSF (ZONE 5 - CORNER PRESSURE)
PRODUCT DESIGNATION	H-H40 (MINIMUM)

OPERATION	SINGLE HUNG WINDOW - VERTICAL SLIDING	
GRIDS	APPLIED DIVIDED LITES	
FRAME	ALUMINUM	
GLAZING TYPES		
	MARK	NOTES
	1	1" VISION I.G.U. - SHGC 0.51 (SEW)
	1T	1" VISION I.G.U. - TEMPERED
	1N	1" VISION I.G.U. - SHGC 0.38 (N)
	2	CATEGORY II LAMINATED
	3	OBSCURED
MP		INSULATED METAL PANEL
		1" OVERALL ASSEMBLY
		3/8" THICK ALUMINUM SKIN
		1" ISOCYANURATE INSULATION OR MINERAL WOOL
		3/8" THICK ALUMINUM SKIN

MARK	ROUGH OPENING		QTY (V.I.F.)	GLZ TYPE	LITES	DETAIL				HARDWARE SET	NOTES
	WIDTH (±V.I.F.)	HEIGHT (±V.I.F.)				HEAD	JAMB	SILL	CROSS RAIL		
101	76"	90"	1	1T / MP	30	3/A-503	4/A-503	1/A-503	2/A-503	1	LEVER HANDLE AT EXTERIOR PANIC HARDWARE AT INTERIOR MAG SAFE LOCK AND READER AT DOOR FRAME
102	76"	90"	1	1T / MP	30	3/A-503	4/A-503	1/A-503	2/A-503	2	-
103	76"	90"	1	1T / MP	30	3/A-503	4/A-503	1/A-503	2/A-503	2	-

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	12-12-22	BID SET
MARK	DATE	DESCRIPTION

ISSUE:

PROJECT NO.:	22081
DRAWN BY:	LAP/AC
CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

SHEET TITLE:

WINDOW AND DOOR SCHEDULES

SHEET:

A-601

DO NOT SCALE DRAWING

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NEW WINDOW SCHEDULE - NORTH ELEVATIONS A-204

MARK	TYPE	NOTES
208	A4	-
209	C4	-
210	A4	-
211	A4	TEMPERED GLASS
212	A4	KLN HOOD AT WINDOW OPENING; MODIFY DUCTWORK - REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION. FIX WINDOW CLOSED.
213	C4	-
214	A4	-
215	A4	-
216	C4	-
217	A4	-
218	A4	-
219	C4	-
220	A4	TEMPERED GLASS
221	A4	TEMPERED GLASS
222	C4	-
223	A4	-
224	A4	-
225	C4	-
226	A4	-
227	A4	TEMPERED GLASS
228	A4	-
229	C4	-
230	A4	-
231	A4	-
232	C4	-
233	A4	AC UNIT - REFER TO DETAIL 6/A-501
234	A4	-
235	C4	-
236	A4	-
237	A4	-
238	C4	-
239	A4	-
240	A5	TEMPERED AND OBSCURED GLASS (EXERCISE ROOM)
241	C5	TEMPERED AND OBSCURED GLASS (EXERCISE ROOM)
242	A5	TEMPERED AND OBSCURED GLASS (EXERCISE ROOM)
243	A5	OBSCURED GLASS
244	C5	OBSCURED GLASS
245	A5	OBSCURED GLASS
246	A5	OBSCURED GLASS
247	C5	OBSCURED GLASS
248	A5	OBSCURED GLASS
249	C7	CATEGORY II LAMINATED GLASS; FIX WINDOW CLOSED (GYMNASIUM)
250	A7	CATEGORY II LAMINATED GLASS; FIX WINDOW CLOSED (GYMNASIUM)
251	A7	CATEGORY II LAMINATED GLASS; FIX WINDOW CLOSED (GYMNASIUM)
252	C7	CATEGORY II LAMINATED GLASS; FIX WINDOW CLOSED (GYMNASIUM)
253	F2	-
254	E2	-
255	A4	-
256	C4	-
257	A4	-
258	A4	-
259	C4	-
260	A4	-
261	A9	TEMPERED GLASS
262	A4	-
263	C4	-
264	A4	-
265	A4	-
266	C4	-
267	A4	-
268	A9	TEMPERED GLASS
269	A8	OBSCURED GLASS (AUDITORIUM)
270	C8	OBSCURED GLASS (AUDITORIUM)
271	A8	OBSCURED GLASS (AUDITORIUM)
272	A8	OBSCURED GLASS (AUDITORIUM)
273	C8	OBSCURED GLASS (AUDITORIUM)
274	A8	OBSCURED GLASS (AUDITORIUM)

NEW WINDOW SCHEDULE - EAST ELEVATION 1/A-204

MARK	TYPE	NOTES
275	A1	TEMPERED GLASS

NEW WINDOW SCHEDULE - SOUTH ELEVATIONS A-203

MARK	TYPE	NOTES
139	A1	-
140	C1	-
141	A1	-
142	A1	-
143	C1	-
144	A1	AC UNIT - REFER TO DETAIL 6/A-501
145	A1	-
146	C1	-
147	A1	-
148	A1	-
149	C1	-
150	A1	-
151	A1	TEMPERED GLASS
152	A1	-
153	C1	-
154	A1	-
155	A1	-
156	C1	-
157	A1	TEMPERED GLASS
158	A1	TEMPERED GLASS
159	C1	-
160	A1	-
161	A1	-
162	C1	-
163	A1	-
164	A1	-
165	C1	-
166	A1	-
167	A1	TEMPERED GLASS
168	A1	-
169	C1	-
170	A1	-
171	C3	OBSCURED GLASS
172	A3	OBSCURED GLASS (AUDITORIUM)
173	C3	OBSCURED GLASS (AUDITORIUM)
174	A3	OBSCURED GLASS (AUDITORIUM)
175	A3	OBSCURED GLASS (AUDITORIUM)
176	C3	OBSCURED GLASS (AUDITORIUM)
177	A3	OBSCURED GLASS (AUDITORIUM)
178	A2	-
179	A2	TEMPERED GLASS
180	A2	TEMPERED GLASS
181	A1	-
182	C1	-
183	A1	-
184	A1	-
185	C1	-
186	A1	-
187	A1	-
188	C1	-
189	A1	AC UNIT - REFER TO DETAIL 6/A-501
190	A1	-
191	C1	-
192	A1	-
193	A1	-
194	C1	-
195	A1	-
196	A1	-
197	C1	-
198	A1	AC UNIT - REFER TO DETAIL 6/A-501
199	C6	CATEGORY II LAMINATED GLASS; FIX WINDOW CLOSED (GYMNASIUM)
200	A6	CATEGORY II LAMINATED GLASS; FIX WINDOW CLOSED (GYMNASIUM)
201	A6	CATEGORY II LAMINATED GLASS; FIX WINDOW CLOSED (GYMNASIUM)
202	C6	CATEGORY II LAMINATED GLASS; FIX WINDOW CLOSED (GYMNASIUM)
203	A2	OBSCURED GLASS
204	C2	OBSCURED GLASS
205	A2	OBSCURED GLASS
206	E1	-
207	F1	-

NEW WINDOW SCHEDULE - WEST ELEVATIONS A-202

MARK	TYPE	NOTES
079	A1	-
080	C1	-
081	A1	-
082	A1	-
083	C1	-
084	A1	-
085	A1	OBSCURED GLASS
086	A1	TEMPERED GLASS
087	D	AC UNIT - REFER TO DETAIL 6/A-501
088	C1	-
089	A1	-
090	A1	-
091	C1	-
092	A1	-
093	D	-
094	A1	TEMPERED GLASS
095	A1	OBSCURED GLASS
096	A1	TEMPERED GLASS
097	A1	-
098	A1	-
099	A1	-
100	B1	-
101	B1	-
102	A1	-
103	A1	-
104	A1	-
105	A1	-
106	C1	-
107	A1	-
108	A1	-
109	C1	-
110	A1	-
111	A1	OBSCURED GLASS
112	A1	TEMPERED GLASS
113	D	AC UNIT - REFER TO DETAIL 6/A-501
114	C1	-
115	A1	AC UNIT - REFER TO DETAIL 6/A-501
116	A1	AC UNIT - REFER TO DETAIL 6/A-501
117	C1	OBSCURED GLASS
118	A1	AC UNIT - REFER TO DETAIL 6/A-501
119	D	AC UNIT - REFER TO DETAIL 6/A-501
120	A1	TEMPERED GLASS
121	A1	OBSCURED GLASS
122	A1	HOT WATER TANK WITH VENT AND INTAKE THROUGH WINDOW - REFER TO DETAIL 6&7/A-502; FIX WINDOW CLOSED.
123	A1	-
124	A1	-
125	A1	KITCHEN EQUIPMENT UNIT WITH VENT THROUGH WINDOW - REFER TO DETAIL 6/A-502; FIX WINDOW CLOSED.
126	B1	KITCHEN EQUIPMENT UNIT WITH VENT THROUGH WINDOW - REFER TO DETAIL 6/A-502; FIX WINDOW CLOSED.
127	B1	-
128	A1	-
129	A1	OBSCURED GLASS
130	A1	-
131	C2	OBSCURED GLASS
132	C2	TEMPERED AND OBSCURED GLASS
133	B2	OBSCURED GLASS
134	A2	OBSCURED GLASS
135	A2	OBSCURED GLASS
136	A2	OBSCURED GLASS
137	G	OBSCURED GLASS
138	G	OBSCURED GLASS

NEW WINDOW SCHEDULE - EAST ELEVATION A-201

MARK	TYPE	NOTES
001	B1	-
002	A1	VENTILATION UNIT WITH LOUVER THROUGH WINDOW - REFER TO DETAIL 7/A-502
003	B1	-
004	A1	-
005	C1	-
006	A1	-
007	A1	-
008	C1	-
009	A1	-
010	A1	-
011	C1	-
012	A1	-
013	A1	-
014	A1	-
015	A1	-
016	A1	-
017	C1	-
018	A1	-
019	A1	-
020	C1	-
021	A1	-
022	A1	AC UNIT - REFER TO DETAIL 6/A-501
023	C1	-
024	A1	-
025	B1	-
026	A1	VENTILATION UNIT WITH LOUVER THROUGH WINDOW - REFER TO DETAIL 7/A-502
027	B1	-
028	B1	-
029	A1	VENTILATION UNIT WITH LOUVER THROUGH WINDOW - REFER TO DETAIL 7/A-502
030	B1	-
031	A1	AC UNIT - REFER TO DETAIL 6/A-501
032	C1	-
033	A1	-
034	A1	AC UNIT - REFER TO DETAIL 6/A-501
035	C1	-
036	A1	AC UNIT - REFER TO DETAIL 6/A-501
037	A1	-
038	C1	-
039	A1	-
040	A1	TEMPERED GLASS
041	A1	TEMPERED GLASS
042	A1	TEMPERED GLASS
043	A1	AC UNIT - REFER TO DETAIL 6/A-501
044	C1	-
045	A1	-
046	A1	-
047	C1	-
048	A1	-
049	A1	AC UNIT - REFER TO DETAIL 6/A-501
050	C1	-
051	A1	-
052	B1	-
053	A1	VENTILATION UNIT WITH LOUVER THROUGH WINDOW - REFER TO DETAIL 7/A-502
054	B1	-
055	B2	-
056	A2	-
057	B2	-
058	A2	-
059	C2	-
060	A2	-
061	A2	-
062	C2	-
063	A2	-
064	A2	-
065	C2	-
066	A2	-
067	A2	AC UNIT - REFER TO DETAIL 6/A-501
068	C2	-
069	A2	-
070	A2	-
071	C2	-
072	A2	-
073	A2	-
074	C2	-
075	A2	-
076	B2	TEMPERED AND OBSCURED GLASS (EXERCISE ROOM)
077	A2	TEMPERED AND OBSCURED GLASS (EXERCISE ROOM)
078	B2	TEMPERED AND OBSCURED GLASS (EXERCISE ROOM)



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Any changes to this item can be a violation of the law unless altered by a licensed architect. Any alteration made to this item must be accompanied by a specific description of change or changes made; date change was made, as well as the seal of the licensed architect who made or oversaw the changes.

	12-12-22	BID SET
MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO.:

PROJECT NO.:	22081
DRAWN BY:	LAP/AC

CHECKED BY:	SAW/JSG
DRAWING SCALE:	AS NOTED

SHEET TITLE:

WINDOW SCHEDULE

SHEET:

A-602

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Drawing name: J:_S1W2022\22081\getf middle school window replacement\50-construction documents\architectural\AutoCAD\getf middle school\Sheet\22081-A-502 Window Schedule.dwg
Dec 12, 2022 - 10:10 am
User: J:_S1W2022\22081\G01 Middle School Window Replacement\Architectural\AutoCAD\Template_Plot_30x42 Elements\22081-30x42 TitleBlock.dwg
Xref: J:_S1W2022\22081\getf middle school window replacement\50-construction documents\architectural\autoacad\getf middle school\Window and Door Schedule.dwg

1. THE FOLLOWING NOTES ARE GENERAL IN NATURE. IF A CONFLICT OCCURS BETWEEN THESE NOTES AND THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.
2. EXAMINE ALL DRAWINGS AND THE SPECIFICATION FOR THE WORK REQUIREMENTS OF THIS SECTION. REFER TO THE SCOPE OF WORK SUMMARY IN SPECIFICATIONS.
3. HVAC WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATIONS OF ALL COMPONENTS SHALL BE DETERMINED IN THE FIELD AND BY ACTUAL BUILDING CONDITIONS. EQUIPMENT OR DUCTS INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. THERMOSTAT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT BEFORE THE INSTALLATION.
4. ALL WORK SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF ALL NATIONAL, STATE, COUNTY MUNICIPAL AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER CONSTRUCTION WORK OF THE PROJECT. ALL REQUIRED PERMITS SHALL BE OBTAINED, PAID FOR, AND MADE AVAILABLE AT THE COMPLETION OF THE WORK.
5. INSTALLATION PROCEDURES, METHODS, AND CONDITIONS SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
6. THE HVAC CONTRACTOR SHALL GUARANTEE WORK IN WRITING FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE AGAINST DEFECTS IN MATERIALS, WORKMANSHIP AND INSTALLATION. THE HVAC CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER AND PROVIDE EQUIPMENT WARRANTIES TO THE OWNER IN FULL FORCE.
7. PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIALS, THE PRODUCT DATA SHALL BE SUBMITTED FOR REVIEW. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT. SUBSTITUTED EQUIPMENT OR OPTIONAL EQUIPMENT WHERE PERMITTED AND APPROVED, MUST CONFORM TO SPACE REQUIREMENTS. ANY SUBSTITUTED EQUIPMENT THAT CANNOT MEET SPACE REQUIREMENTS, WHETHER APPROVED OR NOT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
8. THE HEATING, VENTILATING AND AIR CONDITIONING TRADE IS REQUIRED TO SUPPLY ALL NECESSARY SUPERVISION AND COORDINATION INFORMATION TO ANY OTHER TRADES WHO ARE TO SUPPLY WORK TO ACCOMMODATE THE HEATING, VENTILATING AND AIR CONDITIONING INSTALLATIONS. WORK SHALL BE PERFORMED IN COOPERATION WITH OTHER TRADES ON THE PROJECT AND SO SCHEDULED AS TO ALLOW TIMELY AND EFFICIENT COMPLETION OF THE PROJECT.
9. CUTTING, CORING, DRILLING AND PATCHING OF HOLES AND OPENINGS IN ALL THE STRUCTURAL WALLS FOR THE WORK OF SUB-TRADES SHALL BE PERFORMED BY THE PARTICULAR SUBCONTRACTOR WHEN THE LARGEST DIMENSION OF THE OPENING IS 4 INCHES OR LESS. IF THE LARGEST DIMENSION OF THE OPENING EXCEEDS 4 INCHES, THE GENERAL CONTRACTOR SHALL PERFORM THE CUTTING AND PATCHING FOR THE WORK OF THE SUBCONTRACTOR. ALL SUCH WORK SHALL BE COORDINATED WITH THE G.C.
10. ALL WORK SHALL BE INSTALLED SO THAT PARTS REQUIRING PERIODIC INSPECTION, OPERATION, MAINTENANCE AND REPAIR ARE READILY ACCESSIBLE. MINOR DEVIATION FROM THE DRAWING MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF SUBSTANTIAL MAGNITUDE SHALL NOT BE MADE PRIOR TO WRITTEN APPROVAL FROM THE ENGINEER/ARCHITECT.
11. THE DRAWINGS ARE DIAGRAMMATIC. THE CONTRACTOR SHALL REVIEW EQUIPMENT INSTALLATION MANUAL TO UNDERSTAND THE EQUIPMENT SERVICE SPACE REQUIRED BEFORE WORK IS COMMENCED. THIS CONTRACTOR SHALL COORDINATE LOCATION OF ACCESS PANELS IN CEILINGS, WALLS, FLOORS ETC WITH G.C. THE PANELS SHALL BE FURNISHED BY HVAC CONTRACTOR AND INSTALLED BY GC.
12. THIS TRADE SHALL COORDINATE DUCT AND EQUIPMENT INSTALLATION WITH EXISTING EQUIPMENT, DUCTS, AND PIPING. THIS TRADE SHALL COORDINATE ALL CONFLICTS WITH OTHER TRADES IN THE FIELD PRIOR TO INSTALLATION AT NO EXTRA COST TO THE OWNER.
13. G.C. SHALL HIRE A LICENSED PLUMBER TO PERFORM THE PLUMBING PART OF MECHANICAL WORK RELATED TO WATER HEATER & KITCHEN OVEN.
14. G.C. SHALL REACTIVE THE UNIT VENTILATOR's, AC's, HOT WATER HEATER, KITCHEN OVENS AND HOOD AFTER RECONNECTING AND ENSURE ITS OPERATING PROPERLY.
15. G.C. RESPONSIBILITY IS TO REMOVE AND REINSTALL UNIT VENTILATOR, HOT WATER HEATER, KITCHEN OVENS AND HOOD TO ACCOMMODATE WINDOW INSTALLATION METHOD.

SYMBOL	DESCRIPTION
EWI	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HEX	HEAT EXCHANGER
HP	HEAT PUMP/HORSE POWER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ID	INSIDE DIAMETER
LAI	LEAVING AIR TEMPERATURE
LD	LINEAR DIFFUSER
LYG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MAU	MAKE-UP AIR UNIT
NO	NORMALLY OPEN (FAIL POSITION)
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PSI	POUNDS PER SQUARE INCH
RG	RETURN GRILLE
RPM	REVOLUTIONS PER MINUTE
SP	STATIC PRESSURE (INCHES OF WATER)
SR	SUPPLY REGISTER
RTU	ROOFTOP UNIT
TC	TRANSFER GRILLE
TYP	TYPICAL
WB	WET-BULB TEMPERATURE "F"
WMS	WIRE MESH SCREEN
RD	RADIATION DAMPER
TYP	TYPICAL
SS	STAINLESS STEEL

SYMBOL	DESCRIPTION
	NEW PIPING, DUCTWORK, EQUIPMENT, ETC. (LINE WEIGHT)
	LINED DUCTWORK
	EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. (LINE WEIGHT)
	EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. (TO BE REMOVED)
	CONNECT NEW TO EXISTING
	SUPPLY/OUTSIDE AIR DUCT UP
	RETURN/EXHAUST DUCT UP
	SUPPLY/OUTSIDE AIR DUCT DOWN
	RETURN/EXHAUST DUCT DOWN
	EXHAUST DUCT UP
	SUPPLY DIFFUSER
	RETURN/EXHAUST REGISTER
	FIRE DAMPER
	COMBINATION FIRE DAMPER/SMOKE DAMPER
	MANUAL VOLUME DAMPER
	MOTORIZED DAMPER
	ZONE DAMPER
	HUMIDISTAT
	SWITCH SERVING FAN
	OCCUPANCY SENSOR
	THERMOSTAT
	REMOTE AVERAGING THERMOSTAT
	REVERSE ACTING THERMOSTAT
	REMOTE TEMPERATURE SENSOR W/ UNIT
	UNDER CUT DOOR
	LOUVERED DOOR
	THERMOSTAT/CONTROLLER
	ABOVE FINISHED FLOOR
	AIR SEPARATOR
	BOILER
	BRAKE HORSEPOWER
	BRITISH THERMAL UNIT
	BRITISH THERMAL UNIT PER HOUR
	CEILING DIFFUSER/CONDENSATE
	CUBIC FEET PER MINUTE
	CLEANOUT
	COOLING TOWER
	CABINET UNIT HEATER
	COMPLETE WITH
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	DRY BULB TEMPERATURE "F"
	DOWN
	EXHAUST AIR
	EXHAUST FAN
	EXHAUST GRILLE
	EXHAUST REGISTER
	EXPANSION TANK
	EXISTING TO REMAIN

SYMBOL	DESCRIPTION
—CWS—	CONDENSER WATER SUPPLY
—CWR—	CONDENSER WATER RETURN
—HWS—	HOT WATER SUPPLY
—HWR—	HOT WATER RETURN
—CD—	CONDENSATE DRAIN
→	DIRECTION OF DOWNWARD PITCH 1/8"/FOOT
→	DIRECTION OF FLOW
→	ELBOW TURNED DOWN
→○	ELBOW TURNED UP

* NOT ALL SYMBOLS MAY BE USED

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LYMAN B. GOFF
MIDDLE SCHOOL
WINDOW
REPLACEMENT

PAWTUCKET
SCHOOL
DEPARTMENT

PROFESSIONAL

	12-12-22	BID SET
MARK	DATE	DESCRIPTION
ISSUE:		

SHEET TITLE:
MECHANICAL
SYMBOL
LEGEND AND
NOTES

M-0.00

DO NOT SCALE DRAWING

1 Mechanical Level 1 Demo Plan

Scale: 1/8"=1'-0"

- | DEMOLITION NOTES: | |
|-------------------|--|
| ① | REMOVE AND STORE EXISTING AC UNIT. RECONNECT ELECTRIC WIRING/CONDUIT AS NEEDED TO SAFELY DISCONNECT AND RECONNECT UNIT. SEE NEW WORK PLAN FOR DETAILS. |
| ② | DISCONNECT DUCTWORK FROM UNIT VENTILATOR. REMOVE AND DISPOSE LOUVER & DUCT. RECONNECT ELECTRIC WIRING/CONDUIT/PIPING AS NEEDED TO SAFELY DISCONNECT AND RECONNECT UNIT. SEE NEW WORK PLAN FOR DETAILS. |
| ③ | DISCONNECT DUCTWORK FROM HOOD. REMOVE AND DISPOSE LOUVER & DUCT. RECONNECT ELECTRIC WIRING/CONDUIT AS NEEDED TO SAFELY DISCONNECT AND RECONNECT UNIT. SEE NEW WORK PLAN FOR DETAILS. |
| ④ | REMOVE & DISPOSE EXISTING DRYER DUCT WITH LOUVER |
| ⑤ | SEE PICTURES ON M-2.00 FOR MORE DETAILS. |

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PROJECT:

LYMAN B. GOFF
MIDDLE SCHOOL
WINDOW
REPLACEMENT

974 NEWPORT AVE.
PAWTUCKET, RI 02861

CLIENT:

PAWTUCKET
SCHOOL
DEPARTMENT

286 MAIN ST.
PAWTUCKET, RI 02860

PROFESSIONAL

	12-12-22	BID SET
MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO.:	22120
DRAWN BY:	JRR
CHECKED BY:	NS
DRAWING SCALE:	1/8"=1'-0"

SHEET TITLE:

MECHANICAL
LEVEL 1 FLOOR
DEMO PLAN

SHEET

MD-1.00

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DEMOLITION NOTES:

- CONSULTANTS:

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PROJECT NO.:	22120
DRAWN BY:	JRR
CHECKED BY:	NS
DRAWING SCALE:	1/8"=1'-0"

SHEET TITLE:

MECHANICAL
LEVEL 2 FLOOR
DEMO PLAN

SHEET:

MD-1.01

DO NOT SCALE DRAWING



DO NOT SCALE DRAWING



② THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY POWER WIRING AND LOCAL DISCONNECTS TO MEET CODE REQUIREMENTS. SEE ELECTRICAL DRAWINGS FOR DETAILS.

PROJECT NO.:	22120
DRAWN BY:	JRR
CHECKED BY:	NS
DRAWING SCALE:	1/8"=1'-0"

MECHANICAL
LEVEL 1 FLOOR
NEW PLAN

M-1.00

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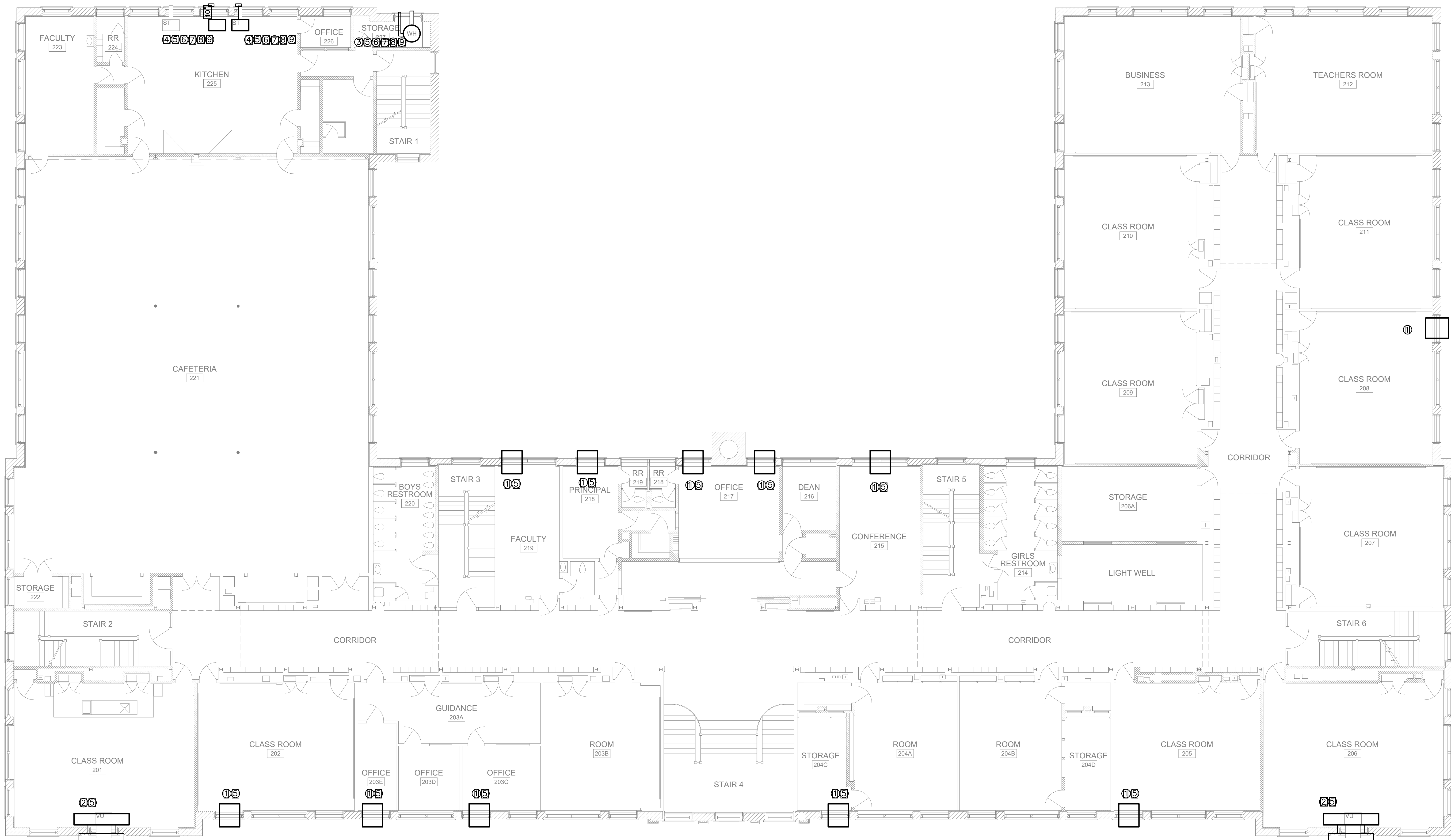
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SCHOOL
DEPARTMENT

286 MAIN ST.
PAWTUCKET, RI 02860



1 Mechanical Level 2 New Plan

Scale: 1/8"=1'-0"

NEW WORK NOTES:

- 1 REINSTALL AC UNIT IN NEW WINDOW WITH BASE BELOW, SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION, NEW BASE DETAIL, CLIPS REQUIREMENT & BASE COLOR. AC UNIT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION SO CONDENSATE SPILL BY GRAVITY TO OUTSIDE FROM DRAIN PAN. RECONNECT ELECTRIC WIRING/CONDUIT AS NEEDED, SEE ELECTRICAL PLANS FOR MORE DETAILS.
- 2 RECONNECT UNIT VENTILATOR BEHIND THE NEW WINDOW, PROVIDE NEW LOUVER WITH A MINIMUM FREE AREA 1.0 SQ. FT. AND SHALL BE 36"x12". THE LOUVER IS BASED ON GREENHECK MODEL EVH-302. FINAL SIZE, STYLE, COLOR AND LOCATION SHALL BE APPROVED BY THE ARCHITECT. PROVIDE NEW DUCT WITH INSULATION TO CONNECT THE LOUVER TO UNIT. RECONNECT PIPING TO UNIT VENTILATOR. RECONNECT & EXTEND ELECTRIC WIRING/CONDUIT/PIPING/HANGERS AS NEEDED.
- 3 RECONNECT EXISTING WATER HEATER WITH POWER VENT FAN AND FLUE PIPE. PROVIDE 4" NEW OUTSIDE AIR LOUVER WITH BACK DRAFT DAMPER AND INSTALL AT LOW LEVEL. RECONNECT ELECTRIC WIRING/CONDUIT/PIPING AS NEEDED TO SAFELY DISCONNECT AND RECONNECT UNIT.
- 4 RECONNECT EXISTING OVEN. PROVIDE NEW EXHAUST DUCT WITH HANGERS, SIZE SHALL MATCH OLD DUCT. PROVIDE NEW LOUVER INSIDE THE NEW WINDOW AT HIGH LEVEL. LOUVER SHALL BE ROUND & CONSTRUCTED FROM SS. EXTEND DUCT HORIZONTALLY MINIMUM 1 FT FROM WINDOW OUTER SIDE. RECONNECT ELECTRIC WIRING/CONDUIT/PIPING AS NEEDED TO SAFELY DISCONNECT AND RECONNECT UNIT.
- 5 THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY POWER WIRING AND LOCAL DISCONNECTS TO MEET CODE REQUIREMENTS. SEE ELECTRICAL DRAWINGS FOR DETAILS.
- 6 G.C. SHALL HIRE A LICENSED PLUMBER TO PERFORM THE PLUMBING PART OF MECHANICAL WORK RELATED TO WATER HEATER & KITCHEN OVEN AS PER THE LATEST NATIONAL CODES.
- 7 ANY NEW LOUVER INSTALLED IN NEW WINDOW & EXHAUSTING HOT GASES SHALL BE INSTALLED WITHIN INSULATED ALUMINUM PLATE, FINAL SIZE, COLOR LOCATION SHALL BE APPROVED BY ARCHITECT.
- 8 ALL EXHAUST LOUVERS SHALL BE LOCATED A MINIMUM OF 3FT AWAY FROM OPERABLE PORTION OF WINDOWS/DOORS & 10FT AWAY FROM ALL OUTDOOR AIR INTAKES.
- 9 G.C. SHALL VERIFY THE APPLIANCE CATEGORY BASED ON EXISTING EQUIPMENT & PROVIDE VENT PIPE MATERIAL/SIZE AS PER MANUFACTURER'S RECOMMENDATION. ALL JOINTS AND SEAMS MUST BE GAS-TIGHT FOR CATEGORY III APPLIANCE.

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PROJECT:

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MIDDLE SCHOOL
WINDOW
REPLACEMENT**

974 NEWPORT AVE.
PAWTUCKET, RI 02861

CLIENT:

**PAWTUCKET
SCHOOL
DEPARTMENT**

286 MAIN ST.
PAWTUCKET, RI 02860

PROFESSIONAL

MARK	DATE	DESCRIPTION
	12-12-22	BID SET
ISSUE:		

PROJECT NO.:	22120
DRAWN BY:	JJR
CHECKED BY:	NS
DRAWING SCALE:	1/8"=1'-0"

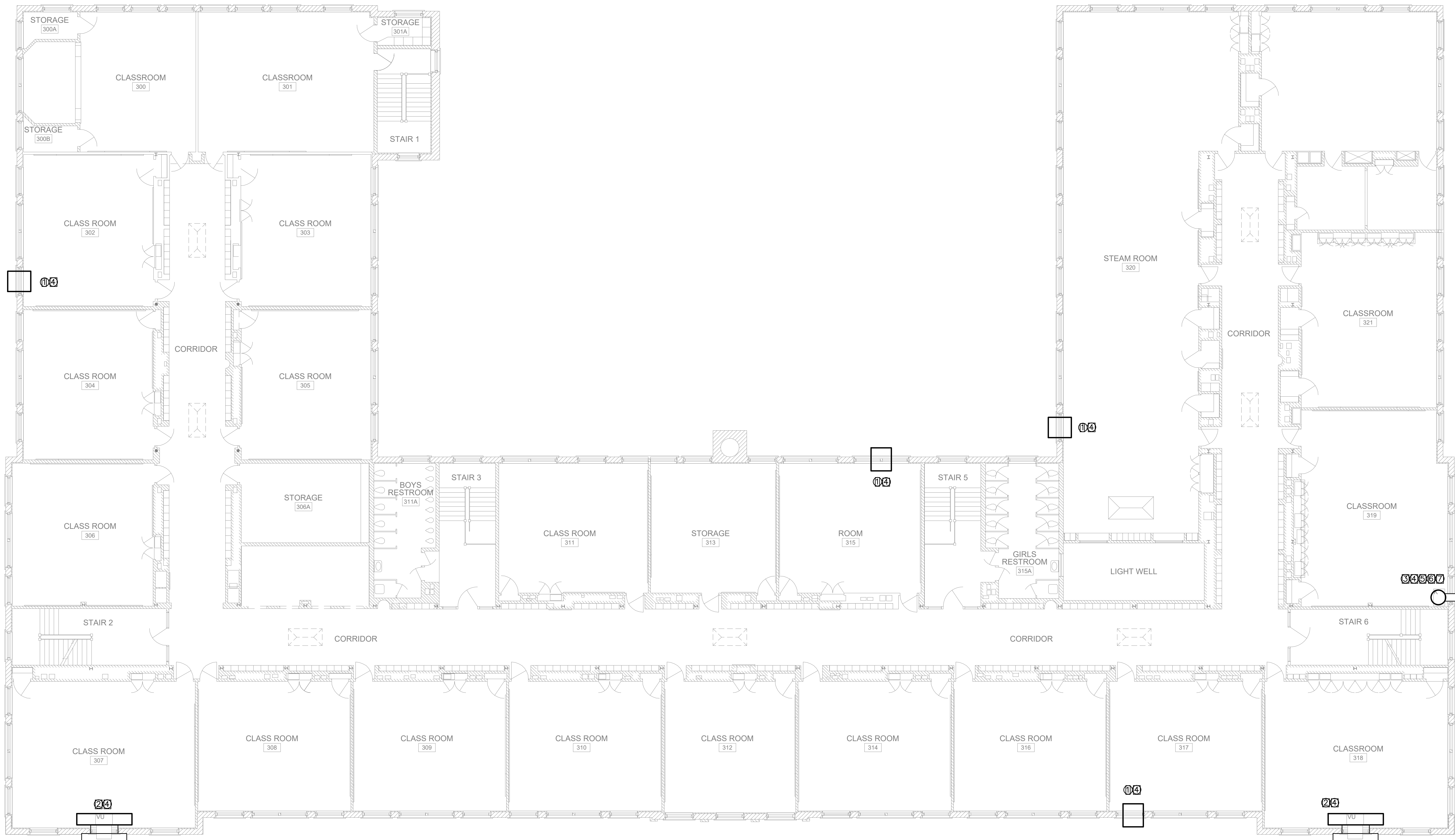
SHEET TITLE:

**MECHANICAL
LEVEL 2 FLOOR
NEW PLAN**

SHEET:

M-1.01

DO NOT SCALE DRAWING



1 Mechanical Level 3 New Plan

Scale: 1/8"=1'-0"

NEW WORK NOTES:

- REINSTALL AC UNIT IN NEW WINDOW WITH BASE BELOW. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION, NEW BASE DETAIL, CLIPS REQUIREMENT & BASE COLOR. AC UNIT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION SO CONDENSATE SPILL BY GRAVITY TO OUTSIDE FROM DRAIN PAN. RECONNECT ELECTRIC WIRING/CONDUIT AS NEEDED. SEE ELECTRICAL PLANS FOR MORE DETAILS.
- RECONNECT UNIT VENTILATOR BEHIND THE NEW WINDOW. PROVIDE NEW LOUVER WITH A MINIMUM FREE AREA 1.0 SQ. FT. AND SHALL BE 36"x12". THE LOUVER IS BASED ON GREENHECK MODEL EVH-302. FINAL SIZE, STYLE, COLOR AND LOCATION SHALL BE APPROVED BY THE ARCHITECT. PROVIDE NEW DUCT WITH INSULATION TO CONNECT THE LOUVER TO UNIT. RECONNECT PIPING TO UNIT VENTILATOR. RECONNECT & EXTEND ELECTRIC WIRING/CONDUIT/PIPING/HANGERS AS NEEDED.
- RECONNECT EXISTING HOOD. PROVIDE NEW EXHAUST DUCT WITH HANGERS. SIZE SHALL MATCH OLD DUCT. PROVIDE NEW LOUVER INSIDE THE NEW WINDOW AT HIGH LEVEL. LOUVER SHALL BE ROUND & CONSTRUCTED FROM SS. EXTEND DUCT HORIZONTALLY MINIMUM 1 FT FROM WINDOW OUTER SIDE. RECONNECT ELECTRIC WIRING/CONDUIT/PIPING AS NEEDED TO SAFELY DISCONNECT AND RECONNECT UNIT.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE ALL NECESSARY POWER WIRING AND LOCAL DISCONNECTS TO MEET CODE REQUIREMENTS. SEE ELECTRICAL DRAWINGS FOR DETAILS.
- ANY NEW LOUVER INSTALLED IN NEW WINDOW & EXHAUSTING HOT GASES SHALL BE INSTALLED WITHIN INSULATED ALUMINUM PLATE. FINAL SIZE, COLOR LOCATION SHALL BE APPROVED BY ARCHITECT.
- ALL EXHAUST LOUVERS SHALL BE LOCATED A MINIMUM OF 3FT AWAY FROM OPERABLE PORTION OF WINDOWS/DOORS & 10FT AWAY FROM ALL OUTDOOR AIR INTAKES.
- G.C. SHALL VERIFY THE APPLIANCE CATEGORY BASED ON EXISTING EQUIPMENT & PROVIDE VENT PIPE MATERIAL/SIZE AS PER MANUFACTURER'S RECOMMENDATION. ALL JOINTS AND SEAMS MUST BE GAS-TIGHT FOR CATEGORY III APPLIANCE.

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PROFESSIONAL

MARK	DATE	DESCRIPTION
	12-12-22	BID SET
ISSUE:		

PROJECT NO.:	22120
DRAWN BY:	JRR
CHECKED BY:	NS
DRAWING SCALE:	1/8"=1'-0"

SHEET TITLE:

**MECHANICAL
LEVEL 3 FLOOR
NEW PLAN**

SHEET:

M-1.02

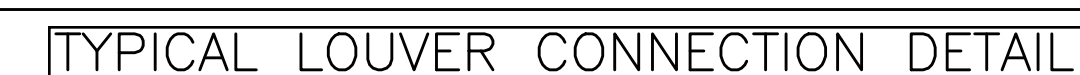
DO NOT SCALE DRAWING



Scale: None



Scale: None



Scale: None



Scale: None



Scale: None



Scale: None



Scale: None



Scale: None



Scale: None



Scale: None



Scale: None

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PROJECT NO.:	22120
DRAWN BY:	JRR
CHECKED BY:	NS
DRAWING SCALE:	AS NOTED

SHEET TITLE:

MECHANICAL
DETAILS & PICTURES

SHEET:

M-2.00

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PART 1 - GENERAL

1. GENERAL CONDITIONS
- A. ALL SECTIONS OF DIVISION 1 GENERAL CONDITION REQUIREMENTS SHALL HEREBY BE MADE PART OF THIS SECTION OF THE SPECIFICATION
- B. EXAMINE ALL DRAWINGS AND ALL OTHER SECTIONS OF THE SPECIFICATION FOR THE REQUIREMENTS FOR THE WORK OF THIS SECTION.
- C. ALL WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS SHALL BE INCLUDED UNDER THE BASE BID, EXCEPT WHERE THERE IS SPECIFIC REFERENCE TO EXCLUSION AND INCORPORATION IN OTHER QUOTATIONS.
- D. HVAC WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATIONS OF ALL COMPONENTS SHALL BE DETERMINED IN THE FIELD AND BY ACTUAL BUILDING CONDITIONS. EQUIPMENT OR DUCTS INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- 1.2 DESCRIPTION OF WORK
- A. THE HVAC SCOPE FOR THIS PROJECT INCLUDES GENERALLY, BUT IS NOT LIMITED TO THE FOLLOWING:
1. LOW PRESSURE DUCTWORK DISTRIBUTION SYSTEMS
 2. DUCTWORK INSULATION SYSTEMS
 3. TESTING AND BALANCING - AIR AND WATER SYSTEMS
 4. LOUVERS
- 1.3 CODES, PERMITS, AND INSPECTIONS
- A. ALL WORK SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF ALL NATIONAL, STATE, COUNTRY MUNICIPAL, AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER CONSTRUCTION WORK OF THE PROJECT.
- B. ALL REQUIRED INSPECTION CERTIFICATES SHALL BE OBTAINED, PAID FOR, AND MADE AVAILABLE AT THE COMPLETION OF THE WORK. MINIMUM PERMIT AND INSPECTION FEES ARE WAIVED ALTHOUGH ALL APPLICABLE PERMITS AND INSPECTIONS ARE REQUIRED.
- C. ANY PORTION OF THE WORK, WHICH IS NOT SUBJECT TO THE APPROVAL OF AN AUTHORITY HAVING JURISDICTION, SHALL BE GOVERNED BY THE APPLICABLE SECTIONS OF THE OVERALL NATIONAL FIRE PROTECTION ASSOCIATION.
- D. INSTALLATION PROCEDURES, METHODS, AND CONDITIONS SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- 1.4 GUARANTEES AND CERTIFICATIONS
- A. THE HVAC CONTRACTOR SHALL GUARANTEE WORK IN WRITING FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE AGAINST DEFECTS IN MATERIALS, WORKMANSHIP AND INSTALLATION. THE HVAC CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE OWNER AND PROVIDE EQUIPMENT WARRANTIES TO THE OWNER IN FULL FORCE. PROVIDE FIVE-YEAR WARRANTY FOR COMPRESSORS. SEE PRODUCT SPECIFICATION PARAGRAPHS FOR MORE INFORMATION ON WARRANTIES.
- B. CERTIFICATION SHALL BE SUBMITTED ATTESTING TO THE FACT THAT SPECIFIED PERFORMANCE CRITERIA ARE MET AT ALL ITEMS OF HEATING AND AIR CONDITIONING EQUIPMENT.
- 1.5 SHOP DRAWINGS AND OTHER INFORMATION REQUIRED
- A. PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIALS, SIX (6) COPIES OF COMPLETE SUBMITTALS SHALL BE SUBMITTED FOR REVIEW, INCLUDING THE FOLLOWING MINIMUM INFORMATION:
1. DRAWINGS, DIMENSIONS, AND WEIGHTS.
 2. MINIMUM CLEARANCES FOR PROPER OPERATION AND SERVICE.
 3. MINIMUM PERFORMANCE DATA AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS. SUBMITTED INFORMATION SHALL INCLUDE SYMBOLS SHOWN ON DRAWING EF-1, ACCU-1, ETC. THE PURPOSE OF SHOWING THE SYMBOLS IS IDENTIFICATION WHICH SPECIFIC PRODUCT IS SUBMITTED FOR REVIEW. WITHOUT PROPER SYMBOLS INDICATED, THE SUBMITTALS WILL NOT BE REVIEWED.
- B. PRIOR TO ASSEMBLING OR INSTALLING THE WORK, THE FOLLOWING SHALL BE SUBMITTED FOR REVIEW:
1. SCALE DRAWINGS SHOWING ALL PIPING AND DUCT RUNS WITH SIZES AND ELEVATIONS SHOWN ON COMPOSITE DRAWINGS WITH INDICATION OF COORDINATION WITH OTHER TRADES. THIS SUBMISSION SHALL CONSIST OF 3 PAPER PRINTS. IF REQUESTED BY GENERAL CONTRACTOR, AUTOCAD FILES OF MEPPIT DRAWINGS WILL BE MADE AVAILABLE FOR A COST OF \$50.00 PER DRAWING. FILES WILL BE MADE AVAILABLE AFTER GENERAL CONTRACTOR SIGNS A WBSA DISCLAIMER PROVIDED BY WBSA.
 2. CATALOG INFORMATION, FACTORY ASSEMBLY DRAWINGS AND FIELD INSTALLATION DRAWINGS AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL ITEMS OF EQUIPMENT.
- NOTE: THE HVAC CONTRACTOR SHALL PROVIDE A DUPLICATE COPY OF THE OPERATING MANUALS FOR ALL CONTROLS, A DUPLICATE COPY OF THE MAINTENANCE MANUALS FOR ALL EQUIPMENT AND CONTROLS, AND REDUCED SCALE DRAWINGS SHOWING THE HVAC DISTRIBUTION SYSTEM.
- 1.6 SEPARATION OF WORK BETWEEN TRADES
- A. THE FOLLOWING ITEMS SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR:
1. MOTORS FOR MECHANICAL EQUIPMENT
 2. CONTROLS FOR MECHANICAL EQUIPMENT
 3. HOISTING AND RIGGING
 4. FASTENINGS AND SUPPORTS
 5. ROOF OPENING FLASHING
 6. FIELD TOUCH UP PAINTING OF DAMAGED SHOP COATS
 7. RUBBER REMOVAL
- B. THE FOLLOWING ITEMS SHALL BE FURNISHED AND INSTALLED BY OTHER TRADES:
1. CUTTING OF OPENINGS IN FLOOR, WALLS AND ROOF
 2. LOUVERS IN OUTSIDE WALLS AND ROOF VENTS
 3. ENCLOSURES/SHAFTS OF DUCTS
 4. PIPING ENCLOSURES
 5. CONCRETE PADS FOR EQUIPMENT
 6. POWER FOR HVAC EQUIPMENT
- C. THE HEATING, VENTILATING AND AIR CONDITIONING TRADE IS REQUIRED TO SUPPLY ALL NECESSARY SUPERVISION AND COORDINATION INFORMATION TO ANY OTHER TRADES WHO ARE TO SUPPLY WORK TO ACCOMMODATE THE HEATING, VENTILATING AND AIR CONDITIONING INSTALLATIONS.
- 1.7 EQUIPMENT AND MATERIALS
- A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND WITHOUT BLEMISH OR DEFECT.
- B. IT IS THE INTENT OF THESE SPECIFICATIONS THAT WHEREVER A MANUFACTURER OF A PRODUCT IS SPECIFIED, AND THE TERMS "OTHER APPROVED" OR "OR APPROVED EQUAL" OR "EQUAL" ARE USED, THE SUBSTITUTED ITEM MUST CONFORM IN ALL RESPECTS TO THE SPECIFIED ITEM.
- C. SUBSTITUTED EQUIPMENT OR OPTIONAL EQUIPMENT WHERE PERMITTED AND APPROVED, MUST CONFORM TO SPACE REQUIREMENTS. ANY SUBSTITUTED EQUIPMENT THAT CANNOT MEET SPACE REQUIREMENTS, WHETHER APPROVED OR NOT, SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. ANY MODIFICATIONS OF RELATED SYSTEMS AS A RESULT OF SUBSTITUTIONS SHALL BE MADE AT THE CONTRACTORS EXPENSE.
- 1.8 INTERPRETATION OF THE DRAWINGS AND SPECIFICATIONS
- A. AS USED IN THE DRAWINGS AND SPECIFICATIONS FOR THIS WORK, CERTAIN NON-TECHNICAL WORDS SHALL BE UNDERSTOOD TO HAVE SPECIFIC MEANINGS AS FOLLOWS REGARDLESS OF INDICATIONS TO THE CONTRARY IN THE GENERAL CONDITIONS OR OTHER DOCUMENTS GOVERNING THE WORK:
- "FURNISH" PURCHASE AND DELIVER TO THE PROJECT SITE COMPLETE WITH EVERY NECESSARY APPURTENANCE AND SUPPORT. ALL AS PART OF THIS WORK, PURCHASING SHALL INCLUDE PAYMENT OF ALL SALES TAXES AND OTHER SURCHARGES AS MAY BE REQUIRED TO ASSURE THAT PURCHASED ITEMS ARE FREE OF ALL LIENS, CLAIMS OR ENCUMBRANCES.
- "INSTALL" . . . UNLOAD AT THE DELIVERY POINT AT THE SITE AND PERFORM EVERY OPERATION NECESSARY TO ESTABLISH SECURE MOUNTING AND CORRECT OPERATION AT THE PROPER LOCATION IN THE PROJECT, ALL AS PART OF THIS WORK.
- "PROVIDE" "FURNISH" AND "INSTALL" . . .
- "NEW" MANUFACTURED WITHIN THE PAST TWO YEARS AND HAS NEVER BEEN USED.
- B. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM IN THE DRAWINGS OR SPECIFICATIONS FOR THIS WORK CARRIES WITH IT THE INSTRUCTION TO FURNISH, INSTALL AND CONNECT THE ITEMS AS PART OF THE WORK, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.
- C. TO THE EXTENT THAT THEY GOVERN THE BASIC WORK, THE SPECIFICATIONS ALSO GOVERN CHANGE ORDER WORK.
- D. NO EXCLUSION FROM, OR LIMITATION IN, THE SYMBOLISM USED ON THE DRAWINGS FOR THIS WORK OR THE LANGUAGE USED IN THE SPECIFICATIONS FOR THIS WORK SHALL BE INTERPRETED AS A REASON FOR OMITTING THE APPURTENANCES OR ACCESSORIES NECESSARY TO COMPLETE ANY REQUIRED SYSTEM OR ITEM OF EQUIPMENT.
- E. THE DRAWINGS FOR THIS WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL, THEREFORE, BE INSTALLED TO FULFILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS AND SHOP DRAWINGS OF ALL TRADES.
- F. CERTAIN DETAILS APPEAR ON THE DRAWINGS FOR THIS WORK WHICH ARE SPECIFIC WITH REGARD TO THE DIMENSIONS AND POSITIONING OF THE WORK. THESE ARE INTENDED ONLY FOR GENERAL INFORMATION PURPOSES. THEY DO NOT OVERTAKE FIELD COORDINATION FOR INDIVIDUAL ITEMS OF THE INDICATED WORK.
- G. INFORMATION AS TO GENERAL CONSTRUCTION AND ARCHITECTURAL FEATURES AND FINISHES SHALL BE DERIVED FROM STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS ONLY.
- H. THE USE OF WORDS IN THE SINGULAR SHALL NOT BE CONSIDERED AS LIMITING WHERE OTHER INDICATIONS DENOTE THAT MORE THAN ONE ITEM IS REFERRED TO.
- 1.9 COORDINATION
- A. WORK SHALL BE PERFORMED IN COOPERATION WITH OTHER TRADES ON THE PROJECT AND SO SCHEDULED AS TO ALLOW SPEEDY AND EFFICIENT COMPLETION OF THE PROJECT.
- B. THIS CONTRACTOR SHALL FURNISH TO OTHER TRADES ADVANCE INFORMATION ON LOCATIONS AND SIZES OF ALL FRAMES, BOXES, SLEEVES, AND OPENINGS NEEDED FOR HIS OWN WORK, AND ALSO FURNISH INFORMATION AND SHOP DRAWINGS NECESSARY TO PERMIT TRADES AFFECTED BY THIS CONTRACTORS WORK TO INSTALL THEIR WORK PROPERLY AND WITHOUT DELAY.
- C. WHERE THERE IS EVIDENCE THAT WORK OF THIS CONTRACTOR WILL INTERFERE WITH THE WORK OF OTHER TRADES, THIS CONTRACTOR SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS.
- D. THIS CONTRACTOR SHALL, WITH THE APPROVAL OF THE ENGINEER AND WITHOUT EXTRA COST TO THE OWNER, MAKE MODIFICATIONS IN HIS WORK AS REQUIRED BY STRUCTURAL INTERFERENCE. THIS CONTRACTOR SHALL PAY ALL EXPENSES TO THE GENERAL CONTRACTOR FOR ADDITIONAL OPENINGS, OR RELOCATING OR ENLARGING EXISTING OPENINGS THROUGH CONCRETE FLOORS, WALLS, BEAMS AND ROOF REQUIRED FOR THIS WORK WHICH WAS NOT PROPERLY COORDINATED.
- E. IF THIS CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES SO AS TO CAUSE INTERFERENCE WITH THE WORK SUCH TRADES, HE SHALL MAKE ALL NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITIONS WITHOUT EXTRA COST TO THE OWNER.
- F. THIS CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN AND APPRISE HIMSELF OF THE ACTUAL FIELD CONDITIONS UNDER WHICH THE WORK HAS TO BE PERFORMED. ALL WORK SHOWN ON THE DRAWINGS IS DIAGRAMMATIC IN NATURE AND THEIR ACTUAL LOCATION AND ELEVATION SHALL BE VERIFIED IN THE FIELD. ANY DEVIATIONS NECESSARY AS A RESULT OF FIELD INTERFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED EXPEDITIOUSLY, AT NO ADDITIONAL COST TO THE OWNER.
- G. THE CONTRACTOR SHALL PROTECT ALL MATERIALS AND WORK OF OTHER TRADES FROM DAMAGE THAT MAY BE CAUSED BY HIS WORK AND SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES WITHOUT EXTRA COST TO THE OWNER.
- H. SLEEVES, INSERTS, ANCHOR BOLTS AND SIMILAR ITEMS SET INTO THE MASONRY STRUCTURE OR THE WORK OF OTHER TRADES SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUCH ITEMS NECESSARY TO HANG OR SUPPORT HIS EQUIPMENT.
- I. WHEN, IN ORDER TO ACCOMMODATE THIS CONTRACTORS WORK, FINISHED MATERIALS AND WORK OF OTHER TRADES MUST BE CUT OR FITTED IN THE SHOP THIS CONTRACTOR SHALL FURNISH THE NECESSARY DRAWINGS FOR TRANSMITTAL, TO THE TRADES WHOSE MATERIALS MUST BE CUT OR FITTED.
- J. CUTTING, CORING, DRILLING AND PATCHING OF HOLES AND OPENINGS FOR THE WORK OF SUB-TRADES SHALL BE PERFORMED BY THE PARTICULAR SUBCONTRACTOR WHEN THE LARGEST DIMENSION OF THE OPENING IS LESS THAN 4 INCHES. IF THE LARGEST DIMENSION OF THE OPENING IS 4 INCHES OR MORE, THE GENERAL CONTRACTOR SHALL PERFORM THE CUTTING AND PATCHING FOR THE WORK OF THE SUBCONTRACTOR. FOR CUTTING AND PATCHING SEE SECTION 0146.
- K. EXACT LOCATION OF DIFFUSERS, GRILLES AND THERMOSTATS SHALL BE APPROVED BY THE ARCHITECT BEFORE THEIR INSTALLATION. SEE ARCHITECTS DRAWINGS FOR MORE INFORMATION.
- L. ALL PIPING AND DUCTWORK SHALL BE INSULATED AS PER CODE. WEATHER PROOF MATERIAL OVER THE INSULATION SHALL BE PROVIDED ON COMPONENTS EXPOSED TO OUTSIDE.
- M. ALL WORK SHALL BE INSTALLED SO THAT PARTS REQUIRING PERIODIC INSPECTION, OPERATION, MAINTENANCE AND REPAIR ARE READILY ACCESSIBLE. MINOR DEVIATION FROM THE DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF SUBSTANTIAL MAGNITUDE SHALL NOT BE MADE PRIOR TO WRITTEN APPROVAL FROM THE ENGINEER. THE CONTRACTOR SHALL DETERMINE LOCATIONS OF ALL ACCESS PANELS REQUIRED FOR THE PROJECT. LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND APPROVED BY THE ARCHITECT. ACCESS PANELS SHALL BE FURNISHED BY HVAC TRADE AND INSTALLED BY GENERAL CONTRACTOR.
- PART 2 - PRODUCTS
- 2.1 PREINSULATED PIPING
- A. PROVIDE PREINSULATED PIPING BY PITTSBURGH CORNING (PTTCON), RIGVIL OR PERMA-PIPE FOR UNDERGROUND (HOT) (CHILLED) WATER (STEAM) (CONDENSATE) SERVICE WHERE SHOWN ON DRAWINGS. WITH THERMOSETTING FIBROUS-GLASS REINFORCED PLASTIC (FRP) OUTER CASING, GLASS FIBR INSULATION AS SPECIFIED IN PIPING INSULATION PARAGRAPH, AND STEEL CARRIER PIPE AS SPECIFIED FOR APPLICABLE SERVICE IN PIPING PARAGRAPH. PIPE SHALL BE 4-11' STRAIGHT SECTIONS WITHOUT FITTINGS.
- B. PROVIDE STRUCTURAL INSULATING CONCRETE SUPPORT GUIDES ON 10-FT. CENTERS. GUIDES SHALL BE 1" WIDE AND SAME DIAMETER AS PIPE. INSTALL AS RECOMMENDED BY MANUFACTURER.
- C. PROVIDE DUAL, PRE-FABRICATED EXPANSION ELBS WITH DUAL SUPPORT GUIDES INCORPORATED IN ELBS.
- D. PROVIDE STEEL PLATE ANCHORS WELDED TO CARRIER PIPE AND BONDED TO FRP CASING. PLATE SHALL BE 3/8" FOR PIPE SIZES THROUGH 6", 1/2" FOR 8" THROUGH 16" PIPE AND 3/4" FOR 18" THROUGH 30" PIPE. PROVIDE HOLES IN ANCHORS BETWEEN CARRIER AND CASING. FOR DRAIN AND VENT. POUR CONCRETE THRUST BLOCKS AT ANCHORS AS RECOMMENDED BY MANUFACTURER.
- E. PROVIDE COMPRESSIBLE SILICON RUBBER, ADJUSTABLE GLAND SEALS BETWEEN CARRIER AND CASING, SUITABLE FOR 450 DEGREES F.
- F. PROVIDE 1/2" NPS VENT AND DRAIN CONNECTIONS ON VERTICAL CENTER LINES OF CASING WHERE PIPE TERMINATES INSIDE BUILDING OR MANHOLE WALL, AT LEAST 3" INSIDE WALL.
- G. PROVIDE FRP LEAK PLATE FUSION WELDED TO CASING, PROTRUDING 3" BEYOND OUTSIDE CASING DIAMETER, WHERE PIPE PENETRATES BUILDING WALL, AS CLOSE AS POSSIBLE TO CENTER OF WALL.
- H. PROVIDE POLYESTER RESIN EPOXY SEALS WELDED TO OUTSIDE CASING AND BONDED TO CARRIER TO SEAL INSULATION TERMINATIONS.
- I. PROVIDE STEEL HEAD PLATES WELDED TO CARRIER PIPE AND TO STEEL SLEEVE OF SAME SIZE AS CASING, AT ANCHORS WITHIN 5 FT. OF PIPING TERMINAL ENDS. CASING SHALL BE WOUND ON AND BONDED TO STEEL SLEEVE. WELD DRAIN AND VENT CONNECTIONS TO SLEEVE.
- 2.2 PIPE INSULATION
- A. INSULATION SHALL BE 5 LB./CF NOMINAL FIBROUS GLASS INSULATION WITH FACTORY-APPLIED FIRE RETARDANT VAPOR BARRIER JACKET WITH K FACTOR OF 0.21 AT 75 DEGREES F. MEAN TEMPERATURE BY OWENS CORNING, CERTAIN-TEED, MANVILLE OR KNAUF. INSTALLED AS REQUIRED BY MANUFACTURER. ASTM E-8 FIRE HAZARD RATINGS SHALL BE 2-FLAME SPREAD, 25 SMOKE DEVELOPED.
- B. APPLY INSULATION AFTER SYSTEMS HAVE BEEN TESTED, PROVED TIGHT AND APPROVED BY ARCHITECT. REMOVE DIRT, SCALE, OIL, RUST AND FOREIGN MATTER PRIOR TO INSTALLATION OF INSULATION.
- C. NO LEAKS IN VAPOR BARRIER OR VOIDS IN INSULATION WILL BE ACCEPTED.
- D. INSULATION AND VAPOR BARRIER ON PIPING WHICH PASSES THROUGH WALLS OR PARTITIONS SHALL PASS CONTINUOUSLY THROUGH SLEEVE, EXCEPT THAT PIPING BETWEEN FLOORS AND THROUGH FIRE WALLS OR SMOKE PARTITIONS SHALL HAVE SPACE ALLOWED FOR APPLICATION OF APPROVED PACKING BETWEEN SLEEVES AND PIPING, TO PROVIDE FIRE STOP AS REQUIRED BY NFPA. SEAL ENDS TO PROVIDE CONTINUOUS VAPOR BARRIER WHERE INSULATIONS INTERRUPTED.
- E. INSULATE FLEXIBLE CONNECTIONS TO SAME THICKNESS AND WITH SAME MATERIAL AS ADJOINING PIPE INSULATION.
- F. PROVIDE FIBROUS DUAL TEMPERATURE INSULATION WITH FACTORY APPLIED VAPOR BARRIER JACKET ON STEAM, OUTDOOR CONDENSER WATER, OUTDOOR COOLING TOWER DRAIN AND MAKEUP, CONDENSATE, CHILLED WATER, DRAIN, HOT AND COLD WATER PIPING, EXCEPT AS SPECIFIED OTHERWISE.
- G. DRAIN PIPING OTHER THAN PVC PIPING AND OUTDOOR COOLING TOWER DRAIN PIPING SHALL HAVE 1/2" THICK INSULATION. INSULATION THICKNESS FOR INDOOR STEAM, STEAM CONDENSATE, CHILLED WATER, CONDENSER WATER, HOT WATER AND COLD WATER PIPING SHALL BE AS FOLLOWS:
1. REFRIGERANT PIPING DIAMETERS OF 1/2" AND LESS SHALL INSULATE WITH A THICKNESS OF 1/2" AND A CONDUCTIVITY OF 0.27 AT 75° F.
 2. ALL HOT WATER PIPING SHALL BE PROVIDED WITH INSULATION 1/2" THICK.
- H. INSULATION ON BELOW-GROUND (NOT BURIED) STEAM AND CONDENSATE PIPING OF PRESSURES GREATER THAN 10 PSIG SHALL BE 1 LB./CU. FT. DENSITY, MOLDED HYDROUS CALCIUM SILICATE FASTENED WITH 16 GAUGE ANNEALED WIRE ON 18" CENTERS. EXPOSED COVERING SHALL BE FINISHED WITH 8 OZ. CANVAS JACKET.
- I. INSULATION FOR PREFABRICATED PIPING SPECIFIED IN PREINSULATED PIPING PARAGRAPH SHALL BE CELLULAR GLASS OF 1-1/2" THICKNESS FOR 6" CHILLED WATER AND 2-1/2" HOT WATER, AND 1" THICKNESS FOR 2-1/2" CHILLED WATER. FOAMGLAS BY PITTSBURGH CORNING OR APPROVED EQUAL, WITH MAXIMUM K-FACTOR OF 0.8. INSULATION SHALL MEET APPLICABLE REQUIREMENTS OF THIS PARAGRAPH.
- J. PROVIDE LONGITUDINAL LAP AND 6" WIDE VAPOR BARRIER JOINT SEAL STRIPS SECURED WITH APPROVED ADHESIVE.
- K. SEAL ENDS OF PIPE INSULATION AND SEAL INSULATION TO PIPE WITH APPROVED FIRE RETARDANT VAPOR BARRIER AT FLANGES, VALVES AND FITTINGS AND AT INTERVALS OF NO MORE THAN 21 FEET ON CONTINUOUS RUNS OF PIPING.
- L. SECURE COVERS ON CONCEALED PIPE WITH METAL BANDS AT LEAST 3/4" WIDE AND NO MORE THAN 18" APART, SPACED TO HOLD ENDS AND CENTERS OF EACH SECTION.

- M. INSULATION ON OUTDOOR CONDENSER WATER PIPING, COOLING TOWER DRAIN, AND MAKEUP PIPING SHALL BE 2" FIBERGLASS. INSULATION ON OTHER OUTDOOR PIPING SHALL BE TWICE THE THICKNESS LISTED IN TABLE ABOVE, BUT NOT MORE THAN 4". WATERPROOF WITH 0.01" THICK ALUMINUM JACKET WITH 2" TRANSVERSE AND LONGITUDINAL LAPPED SEAMS ORIENTED TO SHED WATER. FULL SEAMS WITH WEATHERPROOF ADHESIVE. SECURE JACKET WITH 1" WIDE ALUMINUM DRAW BANDS ON 12" CENTERS.
- N. INSULATION ON FITTINGS, VALVES, AND FLANGES
1. FITTINGS, VALVES AND FLANGES SHALL BE INSULATED WITH PRE-CUT, FACTORY-SUPPLIED FIBROUS GLASS, BY CERTAIN-TEED, KNAUF, OWENS CORNING OR MANVILLE.
 2. FITTINGS, VALVES AND FLANGES SHALL BE INSULATED WITH SAME MATERIAL AND TO SAME THICKNESS AS ADJOINING PIPE INSULATION.
 3. PIPE FITTINGS SHALL BE PRE-TESTED, CLEAN AND DRY BEFORE INSULATION.
 4. INSTALLATION OF INSULATION ON FITTINGS SHALL BE AS FOLLOWS, IN ORDER:
 - a. WRAP INSULATION AROUND FITTING AND TUCK ENDS INTO FITTING THROAT.
 - b. EDGES OF ADJACENT INSULATION SHALL BE TIGHTED AND TUCKED IN TO FULLY INSULATE FITTING TO THICKNESS OF ADJACENT PIPE INSULATION. USE TWO OR MORE THICKNESS IS NECESSARY.
 - c. IF TWO LAYERS OF INSULATION ARE USED ON FITTINGS, WRAP AND SECURE FIRST LAYER WITH TWINE BEFORE APPLYING SECOND LAYER.
 - d. TOP LAYER OF INSULATION SHALL BE COVERED WITH ONE PIECE, PNC MOLDED JACKET COVER. SECURE COVER WITH STAINLESS STEEL TACK FASTENERS INSERTED INTO JACKET THROAT OVERLAP SEAM.
 - e. TAPE JOINTS WITH PRESSURE-SENSITIVE VAPOR BARRIER TAPE. TAPE SHALL EXTEND 2" ON EITHER SIDE OF JOINT.
 5. PRIOR TO TAPING OF JOINTS ON CHILLED WATER AND CONDENSER WATER LINES, APPLY VAPOR BARRIER MASTIC (BRUSHED ON) TO FITTING COVER, THROAT OVERLAP AND EDGES. ALSO APPLY VAPOR BARRIER MASTIC TO PIPE INSULATION JACKET ENDS.
- O. INSULATION FOR FITTINGS, VALVES AND FLANGES SHALL BE EITHER PIPE INSULATION OR MOLDED FITTINGS AS FOLLOWS:
1. CONCEALED PIPING: MOLDED FITTINGS MADE SMOOTH WITH INSULATING CEMENT. 8 OZ. CANVAS JACKET SATURATED WITH APPROVED LAGGING ADHESIVE.
 2. EXPOSED PIPING: 1/4" COAT OF INSULATING CEMENT OVER INSULATION. TROWELLED SMOOTH. 8 OZ. CANVAS JACKET SATURATED WITH APPROVED LAGGING ADHESIVE.
 3. UNDERGROUND/OUTDOORS: WEATHERPROOF, WITH TWO 1/8" WET COATS OF BREATHER TYPE MASTIC, REINFORCED WITH GLASS FABRIC EXTENDING 2" ONTO EITHER SIDE OF ADJACENT INSULATION.
- P. REFRIGERATION LINE INSULATION
1. SUCTION LINES AND OUTDOOR LIQUID LINES SHALL BE INSULATED WITH 3/4" THICK RIGID CLOSED CELL FOAM INSULATION: ARMSTRONG RIGID ARMAFLEX, MANVILLE, OWENS CORNING OR HALSTEADNOMACO (INSULTUBE), EXCEPT IN COMPUTER ROOM PLENA.
 2. INSTALLATION SHALL MEET MANUFACTURERS RECOMMENDATIONS. SEAL BUTT JOINTS WITH INSULATION MANUFACTURERS APPROVED ADHESIVE.
 3. OUTSIDE ABOVE GROUND INSULATION SHALL BE PROTECTED WITH TWO COATS OF APPROVED VINYL LACQUER COATING OVER WOVEN GLASS MESH ADHERED TO INSULATION WITH INSULCOLOR OR APPROVED EQUAL LAGGING ADHESIVE, AS RECOMMENDED BY MANUFACTURER.
 4. REFRIGERANT PIPING IN HUNG CEILING AND UNDERLOOR SUPPLY AND RETURN PLENA SHALL BE INSULATED WITH 1" THICK FIBROUS GLASS INSULATION THAT MEETS APPLICABLE REQUIREMENTS OF THIS PARAGRAPH.

2.3 PIPE HANGERS AND SUPPORTS

- A. PROVIDE PIPE STANDS, SUPPORTS, HANGERS AND OTHER SUPPORTING APPLIANCES AS NECESSARY TO SUPPORT WORK REQUIRED BY CONTRACT DOCUMENTS.
- B. SECURE VERTICAL PIPING TO BUILDING CONSTRUCTION TO PREVENT SAGGING OR SWINGING.
- C. SPACE HANGERS FOR HORIZONTAL PIPING AS FOLLOWS:
1. UP TO 1-1/4": PROVIDE 3/8" DIAMETER ROD, SPACED AT 8'-0" ON CENTER (MAXIMUM SPACING).
- D. HORIZONTAL COPPER TUBING SHALL HAVE MAXIMUM HANGER SPACING OF 6' FOR TUBING 1-1/4" DIA. AND SMALLER AND 10' FOR TUBING 1-1/2" AND LARGER. MAXIMUM SPACING FOR PVC PIPE HANGERS SHALL BE 4'.
- E. REDUCE SPACING TO A MAXIMUM OF 10' - 0" APART, REGARDLESS OF PIPE SIZE, AS NECESSARY FOR FITTINGS, VALVES AND OTHER CONCENTRATED LOADS.
- F. SUPPORT PIPING 3" DIA. AND LARGER FROM STRUCTURE WITH PIPE ROLL HANGERS WITH ADJUSTABLE STEEL ROD HANGERS, SIZED TO ACCOMMODATE INSULATION.
- G. SUPPORT PIPING 2-1/2" DIA. AND UNDER FROM STRUCTURE WITH CARPENTER AND PATTERSON FIG. 100 CLEVIS HANGERS OR APPROVED EQUAL, WITH ONE 1/2" ADJUSTABLE STEEL ROD, OR, FROM SIDE WALL BY EXPANSION SHIELDS, ANGLE IRON BRACKETS AND RODS.
- H. HANGERS SHALL BE BY CARPENTER & PATTERSON, F & S, OR GRINNELL CO. FIGURE NUMBERS OF CARPENTER AND PATTERSON ARE SPECIFIED TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
- I. PROVIDE SPRING HANGERS WITH TRAVEL STOPS AS SPECIFIED IN VIBRATION ISOLATION PARAGRAPH WHERE NECESSARY AND WHERE SHOWN ON DRAWINGS.
- J. PIPE SUPPORTS FOR INSULATED HIGH-TEMPERATURE PIPING SHALL HAVE WELDED INSERTS OF EQUAL THICKNESS TO INSULATION TO PREVENT COMPRESSION OF INSULATION. OTHER INSULATED PIPE SHALL HAVE 10" SHIELDS AT HANGERS, COMPOSED OF 180 DEGREE COVERAGE OF GALVANIZED SHEET METAL AND HIGH DENSITY, PRE-FORMED, RIGID INSULATION, WHERE ROLLERS ARE REQUIRED. SHIELD SHALL BE STEEL PIPE.
- K. HANGERS FOR HORIZONTAL LINES SHALL BE VERTICALLY ADJUSTABLE TO OBTAIN PITCH REQUIREMENTS OF PIPING PARAGRAPH.

2.4 SLEEVES AND PENETRATIONS

- A. PIPE SLEEVES
1. SLEEVES THROUGH FLOORS AND THROUGH EXTERIOR, STRUCTURAL, AND FIRE-RATED CONSTRUCTION SHALL BE HOT-DIPPED GALVANIZED SCHEDULE 40 STEEL PIPE.
 2. SLEEVES THROUGH PARTITIONS AND NON-FIRE-RATED CONSTRUCTION SHALL BE 26 GAUGE GALVANIZED STEEL WITH LOCK LONGITUDINAL SEAMS, OR APPROVED PLASTIC PIPE.
 3. PROVIDE WATERPROOFING MEMBRANE LOCKING DEVICES AT FLOORS. PROVIDE 150 LB. SLP-ON WELDING FLANGES AT EXTERIOR WALL PENETRATIONS.
- B. DUCT SLEEVES AND OPENINGS
1. SLEEVES THROUGH FLOORS, THROUGH EXTERIOR STRUCTURE, THROUGH FIRE-RATED CONSTRUCTION AND THROUGH SMOKE PARTITIONS THAT REQUIRE SMOKE DAMPERS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE FOR ROUND DUCT AND SHALL MEET SMACNA FIRE DAMPER AND HEAT STOP GUIDE FOR RECTANGULAR AND FLAT OVAL DUCTS. FIREPROOF PACKING SHALL BE APPLIED TO SEAL ANY OPENINGS BETWEEN SLEEVE AND WALL. MATERIALS SHALL MAINTAIN THE FIRE RATINGS OF THE WALL, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE SMACNA FIRE DAMPER AND HEAT STOP GUIDE.
 2. OPENINGS IN WALLS, PARTITIONS AND OTHER FIRE-RATED CONSTRUCTION THAT DO NOT REQUIRE SMOKE DAMPERS SHALL MEET NFPA 90A, SECTION 5.3.8.
 3. MATERIALS FOR PREPARED OPENINGS IN PARTITIONS SHALL MATCH CONSTRUCTION PENETRATED.
- C. PIPE SLEEVE PACKING
1. PACKING BETWEEN THE PIPE AND THE SLEEVE (OR WALL OR SLAB OPENING) IN FIRE RATED WALLS OR SLABS SHALL BE A COMBINATION OF FIREPROOF INSULATION AND FIREPROOF CAULK. THE COMBINATION OF MATERIALS SHALL HAVE THE SAME FIRE RATING, IN ROOMS, AS THE WALL OR SLAB AS TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ASTM E-19. THE COMBINATION OF MATERIALS SHALL BE CLASSIFIED BY UL (FLL, VDD OR CAVITY MATERIALS) FOR THE FIRE RATING REQUIRED AND SHALL BE LISTED AS A NUMBERED SYSTEM IN THE UL BUILDING MATERIALS DIRECTORY. FIBERGLASS SHALL NOT BE USED AS THE INSULATION MATERIAL.
 2. ACCEPTABLE FIREPROOF INSULATION MATERIALS SHALL BE KOWLIN IKAWOOL BY BABCOCK AND WILCOX; CERAMIC FIBER BLANKET / FIBERFRAX BY STANDARD OIL OR FIRE RATED MINERAL WOOL (THERMAFIBER BY USG). ACCEPTABLE FIREPROOF SEALING SHALL BE SILICONE (PRESTOP BY DOW CORNING); CERAMIC FIBER (PYERUTTY BY STANDARD OIL OR NYLON/RESIN SYNTHETIC ELASTOMER FIBER BARRIER CAULK BY 3M).
 3. PACKING FOR SLEEVES THAT DO NOT REQUIRE MAINTENANCE OF FIRE RATING SHALL BE OAKUM, SILICATE FOAM, CERAMIC FIBER OR MINERAL FIBER WITH APPROVED SEALANT. PACK OR FOAM TO WITHIN 1" OF BOTH WALL SURFACES. SEAL PENETRATION PACKING WITH APPROVED CAULKING AND PAINTABLE WATERPROOF MASTIC SURFACE FINISH OR SILICONE CAULKING.
 4. ALL MATERIALS MUST BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. ALL GAPS MUST BE SEALED. FINISH CAULK FLUSH WITH WALL OR SLAB SURFACE IF PIPING RUNS EXPOSED.
- D. OTHER WATERPROOF PIPE PENETRATIONS
1. MODULAR MECHANICAL PENETRATION SEALS SHALL BE INTERLOCKING SYNTHETIC RUBBER LINKS SPACED TO FILL ANNULAR SPACE CONTINUOUSLY, WITH GALVANIZED CARBON STEEL BOLTS, NUTS AND PRESSURE PLATES TO EXPAND RUBBER SEAL BETWEEN PIPE AND SLEEVE. SLEEVE SEAL SHALL BE WATER-TIGHT.
 2. PREFABRICATED MODULAR SLEEVES SHALL BE MASON INDUSTRIES (SWIS) OR APPROVED EQUAL. STIFFENED GALVANIZED STEEL SLEEVES WITH PREFORMED CLOSED-CELL ELASTOMERIC SEAL (NON-FIRE-RATED) OR PREFORMED MINERAL FIBER OR SILICONE FIBER SEAL (FIRE-RATED).
 3. PROVIDE WATERPROOF 1" SINGLE RING SET IN SILICONE AND BOLTED TO FLOOR OR WALL AT CHIPPED AND DRILLED PENETRATIONS OF EXISTING SLABS ON GRADE AND EXISTING WALLS BELOW GRADE.

2.5 PIPING IDENTIFICATION

- A. SCHEDULE 40 PVC AND OTHER NON-METALLIC PIPING USED FOR VENTILATION AIR, MAKE-UP AIR, OR COMBUSTION AIR INTAKE SHALL BE LABELED AS FOLLOWS:
1. THE PIPING SHALL BE IDENTIFIED BY ONE OF THE FOLLOWING METHODS:
 - a. LABELS MUST BE PLACED EVERY TEN FEET FOR EXPOSED/VISIBLE PIPING.
 - b. LABELS MUST BE PLACED EVERY THREE FEET FOR CONCEALED PIPING.
 - c. LABELS MUST BE PLACED AT ALL CHANGES OF DIRECTION.
 2. THE PIPING SHALL BE IDENTIFIED WITH SEMI-RIGID PLASTIC IDENTIFICATION MARKERS EQUAL TO SETMARK PIPE MARKERS, AS MANUFACTURED BY SETON WITH ARROWS THAT SHOW DIRECTION OF FLOW.
- B. METALLIC PIPING, EXCEPT PIPING WITH INACCESSIBLE CHASES SHALL BE IDENTIFIED WITH SEMI-RIGID PLASTIC IDENTIFICATION MARKERS EQUAL TO SETMARK PIPE MARKERS, AS MANUFACTURED BY SETON WITH ARROWS THAT SHOW DIRECTION OF FLOW.
- C. MARKER BACKGROUNDS SHALL BE COLOR CODED WITH A CLEARLY PRINTED LEGEND TO IDENTIFY CONTENTS OF PIPE AS REQUIRED BY SCHEME FOR THE IDENTIFICATION OF PIPING SYSTEMS (ANSI A13.1-1975).
- D. SETMARK TYPE SNA MARKERS SHALL BE USED ON OVERALL DIAMETERS THROUGH 5 INCHES.
- E. SETMARK TYPE STR MARKERS SHALL BE USED ON OVERALL DIAMETERS GREATER THAN 5 INCHES.
- F. MARKERS SHALL BE LOCATED NEXT TO EACH VALVE, AT EACH BRANCH, AT EACH PIPE PASSAGE THROUGH WALLS (BOTH SIDES), AND ON ALL HORIZONTAL PIPING AT 20-FOOT INTERVALS MAXIMUM.

2.6 HVAC SYSTEMS IDENTIFICATION TAGS

- A. GENERAL: PROVIDE MANUFACTURERS STANDARD PRODUCTS OF CATEGORIES AND TYPES REQUIRED FOR EACH APPLICATION SPECIFIED. FOR EACH IDENTIFICATION TYPE, PROVIDE ALL PRODUCTS FROM SAME MANUFACTURER WITH SAME TEXT, STYLE, COLOR, SHAPE, AND OTHER IDENTIFICATION FEATURES.
1. ALL LABEL IDENTIFICATION TAGS SHALL COMPLY WITH ASME STANDARDS A13.1 FOR COLOR SCHEME, LETTERING SIZE, LENGTH OF COLOR FIELD, AND VIEWING ANGLES OF IDENTIFICATION DEVICES.
 2. PROVIDE NAMEPLATES WITH THE UNIT NUMBER ON ALL MECHANICAL EQUIPMENT.
 3. PROVIDE PIPE IDENTIFICATION LABELS INCLUDING DIRECTION-OF-FLOW ARROWS AND WITH SERVICE INDICATED. ALL LABELS SHALL HAVE BACKGROUND COLORS MATCHED WITH SPECIFIC SERVICE DESIGNATION. PROVIDE VALVE TAG NUMBERS ON HVAC PIPING VALVES.
 5. PROVIDE DUCT IDENTIFICATION LABELS INCLUDING DIRECTION-OF-FLOW ARROWS AND WITH SERVICE INDICATED. ALL LABELS SHALL HAVE BACKGROUND COLORS MATCHED WITH SPECIFIC SERVICE DESIGNATION.
- B. EQUIPMENT LABELS
1. PLASTIC LABELS FOR EQUIPMENT (INDOOR APPLICATION):
 - a. MATERIAL AND THICKNESS: MULTILAYER, MULTICOLOR, PLASTIC LABELS FOR MECHANICAL ENGRAVING, 1/16 INCH THICK.
 - b. LETTER COLOR: BLACK
 - c. BACKGROUND COLOR: WHITE
 - d. MINIMUM LABEL SIZE: LENGTH AND WIDTH VARY FOR REQUIRED LABEL CONTENT, BUT NOT LESS THAN 1 BY 3 INCHES.
 - e. MINIMUM LETTER SIZE: 1/4 INCH
 - f. ADHESIVE: CONTACT-TYPE PERMANENT ADHESIVE, COMPATIBLE WITH LABEL AND WITH SUBSTRATE.
 2. PLASTIC LABELS FOR EQUIPMENT (OUTDOOR APPLICATION):
 - a. MATERIAL: MS-215 MAX-TEX WITH PRINTED GRAPHICS PROTECTED BY A CHEMICAL AND UV RESISTANT MS-3000 TOP LAMINATE.
 - b. LETTER COLOR: BLACK
 - c. BACKGROUND COLOR: WHITE
 - d. MINIMUM LABEL SIZE: LENGTH AND WIDTH VARY FOR REQUIRED LABEL CONTENT, BUT NOT LESS THAN 1 BY 3 INCHES.
 - e. MINIMUM LETTER SIZE: 1/4 INCH
 - f. ADHESIVE: CONTACT-TYPE PERMANENT ADHESIVE, COMPATIBLE WITH LABEL AND WITH SUBSTRATE.
- C. PIPE LABELS (INDOOR PIPING)
1. PROVIDE LABELS FOR ABOVE GROUND PIPING LOCATED INDOORS, AND NOT EXPOSED TO SUNLIGHT OR A HARSH ENVIRONMENT.
 2. PRE-PRINTED, COLOR-CODED, WITH LETTERING INDICATING SERVICE, AND SHOWING FLOW DIRECTION.
 3. LETTERING SHALL BE SUB-SURFACE PRINTED AND PROTECTED FROM DIRECT CONTACT BY A LAYER OF PLASTIC. MARKERS WITH SURFACE PRINTED LETTERING WILL NOT BE ACCEPTED.
 4. PIPE LABELS FOR PIPE O.D. LESS THAN 8 INCHES: MS-970 COILED, SEM RIGID PLASTIC FORMED TO COVER FULL CIRCUMFERENCE OF PIPE AND TO ATTACH TO PIPE WITHOUT FASTENERS OR ADHESIVE IN CONTACT WITH THE PIPE SURFACE.
 5. PIPE LABELS FOR PIPE O.D. 8 INCHES AND OVER: MS-870 STRAP-ON, SEM RIGID PLASTIC TO COVER PARTIAL CIRCUMFERENCE OF PIPE AND TO ATTACH TO PIPE WITH NYLON TIES.

E. VALVE TAGS

1. VALVE TAGS: STAMPED OR ENGRAVED WITH 1/4 INCH LETTERS FOR PIPING ABBREVIATION AND 1/2 INCH NUMBERS.
 - a. TAG MATERIAL: BRASS, 0.032 INCH MINIMUM THICKNESS, AND HAVING PREDRILLED OR STAMPED HOLES FOR ATTACHMENT HARDWARE.
 - b. BACKGROUND COLOR: NATURAL BRASS.
 - c. LETTER COLOR: BLACK.
 - d. TAG SIZE: 1-1/2 INCHES, ROUND.
 - e. FASTENERS: BRASS S-HOOKS AND JACK CHAIN.
2. VALVE TAGS: FOR OUTDOOR LABELING OF PROCESS VALVES.
 - a. MATERIAL: MS-215 MAX-TEX WITH PRINTED GRAPHICS PROTECTED BY A CHEMICAL AND UV RESISTANT MS-3000 TOP LAMINATE, AND HAVING STAINLESS STEEL GROMMET PROTECTED PREDRILLED HOLES WITH FOR ATTACHMENT HARDWARE.
 - b. BACKGROUND COLOR: TO MATCH PIPE LABEL COLOR BY SYSTEM.
 - c. LETTER COLOR: EITHER WHITE OR BLACK FOR BEST CONTRAST TO BACKGROUND COLOR.
 - d. TAG SIZE: MINIMUM 1-1/2 INCHES.
 - e. FASTENERS: STAINLESS STEEL S-HOOKS AND STAINLESS STEEL JACK CHAIN.
- F. DUCT LABELS (NON-PLENUM SPACE)
1. PRE-PRINTED, COLOR-CODED, WITH LETTERING INDICATING ASSOCIATED EQUIPMENT, SERVICE, AND SHOWING FLOW DIRECTION.
 - a. CONTENTS: INCLUDE IDENTIFICATION OF DUCT SERVICE USING SAME SYSTEM DESIGNATION AS USED ON DRAWINGS AND AN ARROW INDICATING FLOW DIRECTION, ON EACH LABEL, PREFIX THE SYSTEM DESIGNATION WITH THE ASSOCIATED EQUIPMENT NUMBER. (EXAMPLE: AHU-1 SUPPLY AIR).
 - b. MATERIAL: M5900 VINYL WITH PRESSURE SENSITIVE ACRYLIC ADHESIVE BACKING.
 - c. MARKER SIZE: 2-1/4 INCH HIGH, WITH LENGTH TO SUIT REQUIRED LABEL CONTENT.
 - d. LETTERING SIZE: MINIMUM 1-1/2 INCHES HIGH.
 - e. DIRECTION-OF-FLOW ARROWS: SEPARATE UNIT FOR EACH DUCT LABEL TO INDICATE FLOW DIRECTION.
 - f. ARROW MARKER SIZE: 2-1/4 INCH BY 6-1/2 INCHES.

G. DUCT LABELS (PLENUM SPACE)

1. PRE-PRINTED, COLOR-CODED, WITH LETTERING INDICATING ASSOCIATED EQUIPMENT, SERVICE, AND SHOWING FLOW DIRECTION.
- a. CONTENTS: INCLUDE IDENTIFICATION OF DUCT SERVICE USING SAME SYSTEM DESIGNATION AS USED ON DRAWINGS AND AN ARROW INDICATING FLOW DIRECTION, ON EACH LABEL, PREFIX THE SYSTEM DESIGNATION WITH THE ASSOCIATED EQUIPMENT NUMBER. (EXAMPLE: AHU-1 SUPPLY AIR).
- b. MATERIAL: MS-400 1.6 MIL ALUMINUM WITH PRESSURE SENSITIVE ADHESIVE BACKING. MEETS NFPA 110 LIFE SAFETY CODE FOR CLASS A MATERIALS.
- c. MARKER SIZE: 2-1/4 INCH HIGH, WITH LENGTH TO SUIT REQUIRED LABEL CONTENT.

- d. LETTERING SIZE: MINIMUM 1-1/2 INCHES HIGH.
- e. DIRECTION-OF-FLOW ARROWS: SEPARATE UNIT FOR EACH DUCT LABEL TO INDICATE FLOW DIRECTION.
- f. ARROW MARKER SIZE: 2-1/4 INCH BY 6-1/2 INCHES.

H. CEILING TAGS

1. PROVIDE STEEL CEILING TAGS WITH A COLOR-CODED HEAD 3/4 INCH DIAMETER AND A 1.5 INCH SERRATED SHANK.
- a. PROVIDE CEILING TAGS IN ACoustICAL TILE CEILINGs TO LOCATE EQUIPMENT, VALVES OR DAMPERS THAT REQUIRE REGULAR MAINTENANCE OR ARE PART OF A LIFE SAFETY SYSTEM.
- b. TAGS SHALL BE COLOR CODED AS FOLLOWS : (COORDINATE WITH OWNER):
 1. YELLOW - HVAC EQUIPMENT
 2. RED - LIFE SAFETY (FIRE DAMPERS, SPRINKLER VALVES, ETC.
 3. GREEN - PLUMBING VALVES
 4. BLUE - HEATING/COOLING VALVES.

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PROFESSIONAL

MARK	DATE	DESCRIPTION
ISSUE:		
PROJECT NO.:	22120	
DRAWN BY:	JRR	
CHECKED BY:	NS	
DRAWING SCALE:	AS NOTED	

SHEET TITLE:

MECHANICAL
SPECIFICATIONS

SHEET:

M-3.00

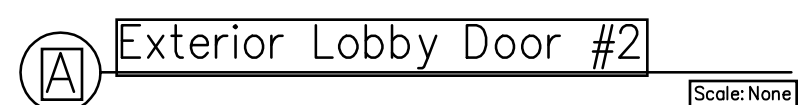
DO NOT SCALE DRAWING

SYMBOL	DESCRIPTION	NOTES
LIGHTING FIXTURES		
FP	WALL OR CEILING RECESSED DOWNLIGHT FIXTURE	UPPER CASE LETTERS INDICATE FIXTURE TYPE REFER TO FIXTURE SCHEDULE FOR MANUFACTURER SUBSCRIPT LOWER CASE LETTERS INDICATE SWITCH CONTROL ASSOCIATIONS
FP	FP	SHADING OF FIXTURES THUS
FP	FP	INDICATES FIXTURE ON NIGHT/EMERGENCY CIRCUIT NIGHT/EMERGENCY CIRCUIT SHALL BE SHOWN WORK WITH SHADING OF FIXTURES THUS
FP	FP	EMERGENCY BALLAST SHALL BE SIMILAR TO ROOM'S EXIST OR 800 WITH INTERNAL INDICATOR LIGHT TEST SWITCH-DRIVEN 2 LAMP APPLICATION WHERE APPLICABLE
FP	FP	CONTRACTOR SHALL FURNISH AND INSTALL EMERGENCY TRANSFORMER REAR ON ALL SWITCHED EMERGENCY FIXTURES
FP	FP	CONTRACTOR SHALL PROVIDE ALL WIRING NECESSARY TO FURNISH AND INSTALL
FP	FP	CONTRACTOR SHALL COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR/EXTERIOR ELEVATIONS
FP	FP	CONTRACTOR SHALL COORDINATE AND CONFIRM MOUNTING TO FURNISH AND INSTALL
FP	FP	CONTRACTOR SHALL FURNISH AND INSTALL EMERGENCY TRANSFORMER REAR ON ALL SWITCHED EMERGENCY FIXTURES
FP	FP	CONTRACTOR SHALL FURNISH AND INSTALL 0-10V DIMMING BALLAST FOR LED FIXTURES
EXIT/EMERGENCY LIGHTING		
ES	EMERGENCY LIGHTING WITH BATTERY BACKUP	ALL EMERGENCY BATTERY PACKS SHALL HAVE REMAINING CAPACITY (UNLESS NOTED) OTHERWISE
ES	DUAL REMOTE EMERGENCY LIGHTING	
ES	CEILING MOUNTED EXIT SIGN	ALL EXIT SIGNS SHALL BE FURNISHED WITH INTERNAL 90 MINUTE BATTERY (UNLESS NOTED) OTHERWISE
ES	WALL MOUNTED EXIT SIGN	APPLICATION OF SHADED QUADRANTS AND ARROWS THUS
ES	ES	INDICATE LETTERED FACE AND DIRECTIONAL CHEVRONS (AS REQUIRED)
SWITCHING/LIGHTING/DEVICE CONTROL		
SW	SINGLE POLE SWITCH	20A 120-277V AC "WP" - INDICATES WEATHER PROOF
SW	SINGLE POLE SWITCH WITH PILOT LIGHT	
S2	DOUBLE POLE SWITCH	
S3	THREE-WAY SWITCH	
S4	FOUR-WAY SWITCH	
ST	SPRING WOUND INTERNAL TIME SWITCH (WITHOUT HOLD)	TORQ OR EQUAL 30 MIN MAX
KS	KEY SWITCH LINE VOLTAGE	LEVITON OR EQUAL
DS	0-10V SLIDE DIMMER	LEVITON ILLUMINATCH #P710-1F
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (80' Gc)	CONTRACTOR SHALL FURNISH AND INSTALL MOTION/OCUPANCY SENSOR WITH BATTERY BACKUP AND BATTERY CHARGE SYSTEM INSTALLATION
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (100' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (120' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (150' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (180' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (200' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (250' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (300' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (350' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (400' Gc)	
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HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (750' Gc)	
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HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (7050' Gc)	
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HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (7150' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (7200' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (7250' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (7300' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (7350' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (7400' Gc)	
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HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (8000' Gc)	
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HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (9850' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (9900' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (9950' Gc)	
HA	CEILING MOUNTED MOTION/OCUPANCY SENSOR (10000' Gc)	

SYMBOL	DESCRIPTION	NOTES
WIRING DEVICES -- RECEPTACLES		
	WALL DUPLEX RECEPTACLE (NEMA 5-20R)	20A/125V 2P 3W GND. NEMA 5-20R SHOWN OF SYMBOL INDICATE SUBSCRIPT LOWER CASE LETTERS INDICATE SWITCH CONTROL ASSOCIATIONS
	CEILING MOUNTED DUPLEX CONVENIENCE OUTLET	SHADING OF SYMBOL THUS
	ISOLATED GROUND DUPLEX CONVENIENCE OUTLET	INDICATES RECEPTACLE MTD 6" ABOVE CEILING NO DOUBLE GROUNDING OR 6" AFT UNLESS NOTED OTHERWISE
	WALL MTD SINGLE DUPLEX CONVENIENCE OUTLET	"WP" - INDICATES WEATHER PROOF "GFI" DENOTES SELF REGULATING GROUND FAULT INTERRUPTING TYPE RECEPTACLE
	HOSPITAL GROSS DUPLEX CONVENIENCE OUTLET	PASS & SEYMOUR 2095-HGR OR EQUAL
	USB RECEPTACLE WITH (2) USB PORTS	HUBBELL USB20X2 OR EQUAL CONFORM DEVICE AND FACEPLATE COLOR WITH ARCHITECT
	PLUG LOAD (WIRELESS) DUPLEX CONVENIENCE OUTLET	LEGRAND RF636320W OR EQUAL CONFORM DEVICE AND FACEPLATE COLOR WITH ARCHITECT
	PLUG LOAD (WIRELESS) CONVENIENCE OUTLET	LEGRAND RF636320W OR EQUAL CONFORM DEVICE AND FACEPLATE COLOR WITH ARCHITECT
	WALL MOUNTED SPECIAL PURPOSE RECEPTACLE	FURNISH AND INSTALL PLUG LOAD POWER PACK AND WIRELESS RECEPTACLE CONTROL TRANSMITTERS
	FIRE RATED FURNITURE FEED POKE THROUGH DEVICE FOR POWER CONNECTIONS TO ELECTRIFIED FURNITURE	NUMERAL WITHIN SQUARE DENOTES RECEPTACLE TYPE AS LISTED IN SCHEDULE OF SPECIAL PURPOSE RECEPTACLES CONFORM NEMA PLUG CONFIGURATION WITH OTHERS AND TEARS REPRESENTATIVE
	4" SQUARE OUTLET BOX TO OUTLETS LOCATED IN FURNITURE PARTITIONS (SEE FLOOR PLANS)	
WIRING DEVICES -- MISCELLANEOUS		
	2-CHANNEL PWS/DATA POWER POKE WITH FIBER DEVICES AND PLATES	LEGRAND TELE-POWER SERIES OR EQUAL
	2-PIECE SURFACE MTD DUPLEX RECEPTACLES (NEMA 5-15R) (WITH ARCHITECT)	LEGRAND OR EQUAL UNLESS NOTED OTHERWISE, ALL RACEWAY SHALL BE METAL
	2-PIECE MULTI-CHANNEL SURFACE MTD DUPLEX RECEPTACLES (NEMA 5-15R) AND DATA OUTLETS (NEMA 5-15R) (WITH ARCHITECT)	LEGRAND OR EQUAL UNLESS NOTED OTHERWISE, ALL RACEWAY SHALL BE METAL
	FLUSH FLOOR MOUNTED PWS/DATA CONVENIENCE RECEPTACLES	POKE THRU APPLICATION: 2 HOUR RATED, LEGRAND RC-SERIES ELECTRIC EXCUTION SERIES OR EQUAL FLOOR TRENCH APPLICATION: DEEP RECTANGULAR CAST IRON BOX ELECTRIC EXCUTION SERIES OR EQUAL FLOOR TRENCH APPLICATION: PROVIDE 1" FROM TEL/DATA TO 6" ABOVE UNLESS NOTED OTHERWISE, ALL RACEWAY SHALL BE METAL
JUNCTION BOXES		
	CEILING MOUNTED JUNCTION BOX	
	WALL MOUNTED JUNCTION BOX	
	SURFACE MOUNTED JUNCTION BOX	
	FLUSH FLOOR MOUNTED JUNCTION BOX	
	JUNCTION BOX WITH FLEXIBLE CONNECTION (NO EQUIPMENT)	P - DENOTES POWER FEED C - DENOTES COMMUNICATIONS FEED
MOTORS AND CONTROLS		
	MOTOR	COMPLETE INFO FOR MOTOR IS INDICATED BY APPLICATION OF INDEXING SYMBOLS REFERENCE TO SCHEDULE OF MECHANICAL EQUIPMENT
	MAGNETIC MOTOR	SUBSCRIPT LOWER CASE LETTERS INDICATE MOTOR TYPE INDICATED BY THE SCHEDULE OF MECHANICAL EQUIPMENT
	MARKEED MOTOR STARTER COMPLETE W/ THERMAL OVERLOAD SWITCH (THERMAL)	REFER TO IMAC SCHEDULE FOR DRIVE/DRIVER SIZE
	VARIABLE FREQUENCY DRIVE	REFER TO IMAC SCHEDULE FOR DRIVE/DRIVER SIZE
	CONTROL PANEL (MECHANICAL EQUIP)	FURNISH AND INSTALL BY OTHERS WHEN BY THE ELECTRICAL CONTRACTOR
DISTRIBUTION EQUIPMENT		
	SURFACE MOUNTED PANEL	
	FLUSH MOUNTED PANEL	
	SURGE SUPPRESSION	PROVIDE PER SPECIFICATIONS
	TRANSFORMER	SEE ELECTRICAL PLANS FOR KVA RATING
	METER SOCKET AND METER	METER SOCKET PROVIDED BY CONTRACTOR PROVIDED BY LOCAL UTILITY CO.
	CHECK METER	E-MON/D-MON CLASS 2000 OR EQUAL WATCH BUILDING STANDARD
	OVERCURRENT AND/OR SWITCHING DEVICE	COMPLETE INFORMATION FOR DEVICES IS INDICATED BY APPLICATION OF TAGS (SEE INDEXING SYMBOLS)
	"WP" - WEATHER PROOF	INDICATES UNUSUED SWITCH NO - FRAME SIZE
		INDICATES FUSED SWITCH NO - FRAME SIZE 15 - FUSE SIZE
		INDICATES ENCLOSED ENCLOSURE
	SAFETY TECHNOLOGY INTERNATIONAL (OR EQUAL)	



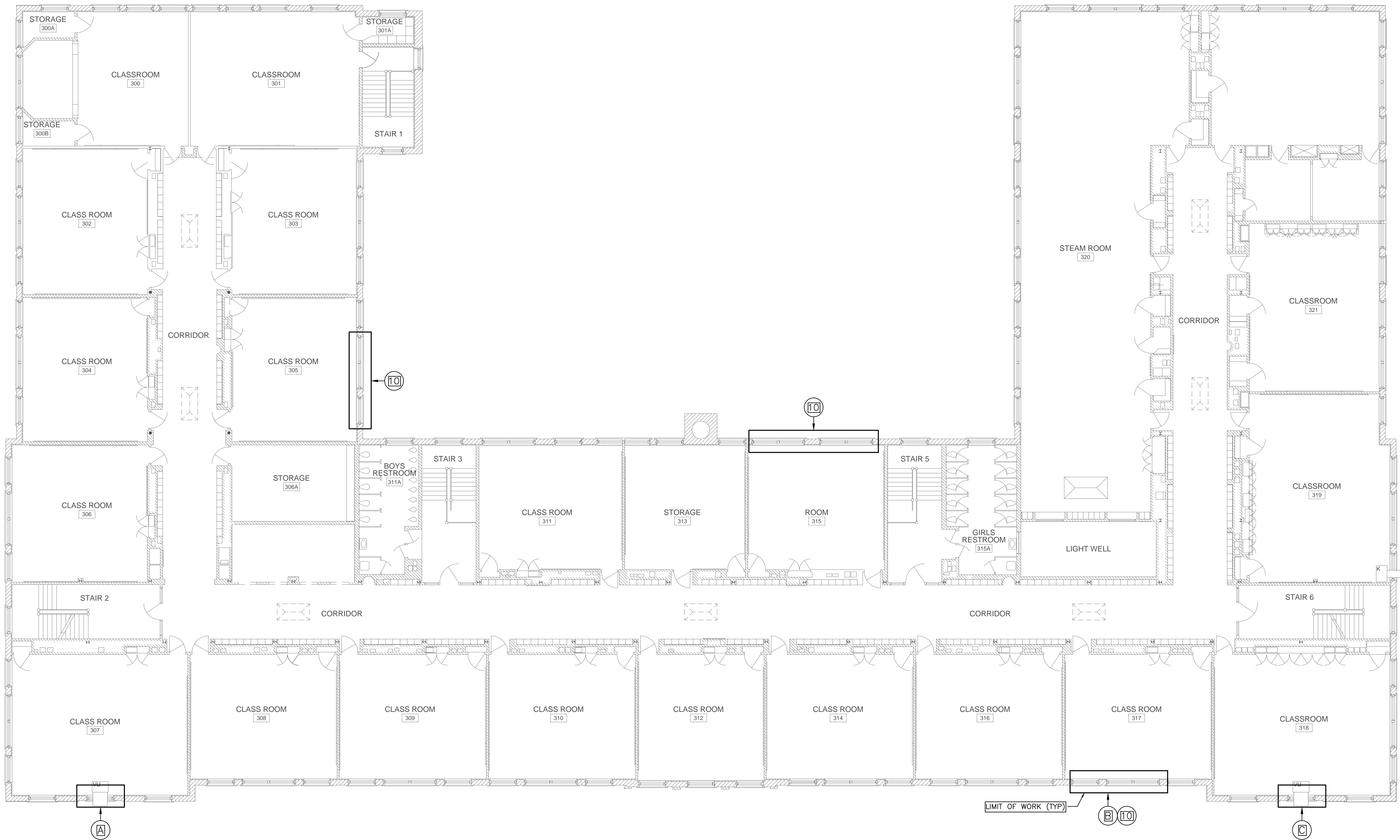
- [1] LIMIT OF WORK LINE INDICATES THE APPROXIMATE AREA OF RENOVATION THAT ELECTRICAL SYSTEMS] MAY BE RELOCATED OR REMOVED. SCOPE OF DEMOLITION SHOWN ON PLANS ARE PARTIAL. ONLY FOR THE ELECTRICAL CONTRACTOR AND HIS INTENDER TO SHOW ALL EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO INCLUDE ALL NECESSARY WORK TO MODIFY AND EXTEND EXISTING SYSTEMS, WIRING, ETC. AS REQUIRED TO ACCOMMODATE THE NEW ARCHITECTURAL FLOOR PLAN.]
- [2] ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND CONFIRM EXISTING RACEWAY, WIRING, AND DEVICES] WITHIN SCOPE OF WORK. THAT SHALL BE REMOVED, REPLACED, OR RELOCATED FOR THE DEMOLITION.]
- [3] ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE 20' OF EXISTING INACTIVE RACEWAY AND CONDUCTORS FROM EXISTING WINDOW TO NEW 14"x24" JUNCTION BOX. CONFIRM LOCATION OF NEW JUNCTION BOX WITH ARCHITECT.]
- [4] ANY ELECTRICAL SYSTEMS PASSING THROUGH OR CONTAINED WITHIN AREAS OF DEMOLITION AND CONSTRUCTION WHICH ARE TO REMAIN SHALL BE RE-ROUTED AS NECESSARY TO AVOID ANY CONFLICTS.]
- [5] COORDINATE DEMOLITION WORK WITH OTHER SYSTEMS WITH ASSOCIATED ELECTRICAL WORK WITH OTHER TRADES AND THE ARCHITECT PRIOR TO DEMOLITION.]
- [6] THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY RE-FEEDING OF EQUIPMENT OR DEVICES TO MAINTAIN ADEQUATE SUPPLY OF EXISTING EQUIPMENT REMAINING.]
- [7] ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING OUTLET AND UP TO 20' OF WIRING AND RACEWAY BACK TO NEW 14"x24" JUNCTION BOX. MATCH EXISTING ELECTRICAL CHARACTERISTICS OF RACEWAY AND WIRING IN KIND.]
- [8] PROVIDE BLANK PLATES AT EXISTING WALLS FOR UNUSED OUTLETS, UNUSED SWITCH LOCATIONS SHALL BE PATCHED BY GENERAL CONTRACTOR. COORDINATE BLANK PLATE COLOR WITH ARCHITECT.]
- [9] COORDINATE DE-ENERGIZATION OF ANY BASE BUILDING SYSTEMS WITH SCHOOL FACILITIES.]
- [10] EXTEND AND CONNECT EXISTING RACEWAY AND WIRING TO NEW LOCATION OF RELOCATED EQUIPMENT.]
- [11] ELECTRICAL CONTRACTOR SHALL RELOCATE ANY AND ALL EXISTING ELECTRICAL DEVICES AND RACEWAY WITHIN AREA OF RENOVATION. CONFIRM AND COORDINATE RENOVATION SCOPE WITH ARCHITECT.]
- [12] ELECTRICAL CONTRACTOR SHALL DISCONNECT AND RECONNECT ANY ELECTRICAL SYSTEMS CURRENTLY SERVING ACTIVE WINDOW MECHANICAL UNITS. CONFIRM & COORDINATE WITH MECHANICAL CONTRACTOR.]
- [13] ALL SURFACE MOUNTED RACEWAY AND BACK BOXES SHALL BE GALVANIZED RIGID STEEL.]



DO NOT SCALE DRAWING



DO NOT SCALE DRAWING



1 Electrical Level 3 Plan

Scale: 1/8"=1'-0"

ELECTRICAL NOTES:

1. LIMIT OF WORK LINE INDICATES THE APPROXIMATE AREA OF RENOVATION THAT ELECTRICAL SYSTEMS MAY BE RELOCATED OR REMOVED. SCOPE OF DEMOLITION SHOWN ON PLANS ARE PARTIAL ONLY FOR THE CONTRACTORS CONVENIENCE AND NOT INTENDED TO SHOW ALL EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO INCLUDE ALL NECESSARY WORK TO MODIFY AND EXTEND EXISTING SYSTEMS, WIRING, ETC. AS REQUIRED TO ACCOMMODATE THE NEW ARCHITECTURAL FLOOR PLAN.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND CONFIRM EXISTING RACEWAY, WIRING, AND DEVICES WITHIN SCOPE OF WORK THAT SHALL BE REMOVED, REPLACED, OR RELOCATED FOR THE DEMOLITION / REMOVAL OF EXISTING WINDOWS AND THE INSTALLATION OF NEW WINDOWS. CONFIRM SCOPE WITH ARCH.
3. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE 20' OF EXISTING, INACTIVE, RACEWAY AND CONDUCTORS FROM EXISTING WINDOW TO NEW 4"x4" JUNCTION BOX. CONFIRM LOCATION OF NEW JUNCTION BOX WITH ARCHITECT.
4. ANY ELECTRICAL SYSTEMS PASSING THROUGH OR CONTAINED WITHIN AREAS OF DEMOLITION AND CONSTRUCTION WHICH ARE TO REMAIN SHALL BE RE-ROUTED AS NECESSARY TO AVOID ANY CONFLICTS.
5. COORDINATE DEMOLITION WORK WITH OTHER SYSTEMS WITH ASSOCIATED ELECTRICAL WORK WITH OTHER TRADES AND THE ARCHITECT PRIOR TO DEMOLITION.
6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY RE-FEEDING OF EQUIPMENT OR DEVICES TO MAINTAIN CIRCUIT CONTINUITY OF EXISTING EQUIPMENT REMAINING.
7. ELECTRICAL CONTRACTOR SHALL REMOVE & REINSTALL EXISTING OUTLET AND UP TO 20' OF WIRING AND RACEWAY BACK TO NEW 4"x4" JUNCTION BOX. MATCH EXISTING ELECTRICAL CHARACTERISTICS OF RACEWAY AND WIRING IN KIND.
8. PROVIDE BLANK PLATES AT EXISTING WALLS FOR UNUSED OUTLETS. UNUSED SWITCH LOCATIONS SHALL BE PATCHED BY GENERAL CONTRACTOR. COORDINATE BLANK PLATE COLOR WITH ARCHITECT.
9. COORDINATE DE-ENERGIZATION OF ANY BASE BUILDING SYSTEMS WITH SCHOOL FACILITIES.
10. EXTEND AND CONNECT EXISTING RACEWAY AND WIRING TO NEW LOCATION OF RELOCATED EQUIPMENT.
11. ELECTRICAL CONTRACTOR SHALL RELOCATE ANY AND ALL EXISTING ELECTRICAL DEVICES AND RACEWAY WITHIN AREA OF RENOVATION. CONFIRM AND COORDINATE RENOVATION SCOPE WITH ARCHITECT.
12. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND RECONNECT ANY ELECTRICAL SYSTEMS CURRENTLY SERVING ACTIVE WINDOW MECHANICAL UNITS. CONFIRM & COORDINATE WITH MECHANICAL CONTRACTOR.
13. ALL SURFACE MOUNTED RACEWAY AND BACK BOXES SHALL BE GALVANIZED RIGID STEEL.



A Classroom 307 Scale: None



B Classroom 317 Scale: None



C Classroom 318 Scale: None

CONSULTANTS:

WB&A
Wozny/Barbar & Associates, Inc.
CONSULTING ENGINEERS
1076 Washington Street 161 Exchange Street
Hanover, MA 02339 3rd Floor
Tel: (781) 826-4144 Pawtucket, RI 02860
Fax: (781) 924-5792
www.wbaengineers.com

PROJECT:

**LYMAN B. GOFF
MIDDLE SCHOOL
WINDOW
REPLACEMENT**

874 NEWPORT AVE.
PAWTUCKET, RI 02861

CLIENT:

**PAWTUCKET
SCHOOL
DEPARTMENT**

286 MAIN ST.
PAWTUCKET, RI 02860

PROFESSIONAL

MARK	DATE	DESCRIPTION
	12-12-22	BID SET

ISSUE:

PROJECT NO.:	22120
DRAWN BY:	PMG
CHECKED BY:	SJ
DRAWING SCALE:	AS NOTED

SHEET TITLE:

**ELECTRICAL
LEVEL 3
POWER FLOOR PLAN**

SHEET:

E-1.2

DO NOT SCALE DRAWING

PAWTUCKET SCHOOL DEPARTMENT REQUEST FOR PROPOSALS



C2022-019

December 12, 2022

January 06, 2023 – Addendum #2 - Reissued

Lyman Goff MS – Window Replacement

Contents:

- 1.0 Bid/Solicitation Information
- 2.0 Instructions and Notifications to Bidders
- 3.0 Overview
- 4.0 Scope of Work
- 5.0 Insurance
- 6.0 Acknowledgement of Risk and Hold Harmless Agreement
- 7.0 Additional Insurance Requirements
- 8.0 Proposal Content and Organization
- 9.0 Evaluation Criteria
- 10.0 Miscellaneous
- 11.0 **Bid Form** **MODIFIED PER ADDENDUM #2**
- Appendix A Anti-Kickback Acknowledgement
- Appendix B City of Pawtucket Purchasing Rules and Regulations and Terms and Conditions of Purchase
- Appendix C Agreement between Owner and Contractor - AIA A101-2017
- Appendix D General Conditions of the Contract for Construction - A201-2017
- Appendix F MBE/DBE Participation Form

1.0 - Bid/Solicitation Information**Schedule*****Pre-Bid/Proposal Conference:***

There will be a **non-mandatory pre-bid conference** on **Thursday, December 15, 2022 at 2:00 PM**, at **Lyman Goff Middle School, 974 Newport Ave, Pawtucket, RI 02861 (Meet at Door 1)**. Attendance is highly encouraged as this will be bidders' opportunity to visit and familiarize themselves with the related facility where they will be providing services, so that they may respond accurately to this RFP.

Requests for Further Information:

Requests for Information during the Bidding Period will be accepted until **5:00 p.m. on Wednesday, January 11th, 2023.**

Requests for information or clarification must be made electronically to the attention of: **Christopher.spiegel@collierseng.com.**

Please reference the RFP number, **C2022-019** on all correspondence. Answers to RFI's received, will be forwarded electronically to all pre-qualified bidders.

RFP Submission Deadline:

January 18, 2023 at 3:00 PM ****Late submittals will not be considered****

Proposals will be publicly opened and read aloud on **January 18, 2023** at 3:10 PM at in the Pawtucket School Administration Building.

Proposals must be mailed or hand-delivered in a sealed envelope marked as follows:

Marked as: **Pawtucket School Department
Bid Package # C2022-019
Lyman Goff Middle School Window Replacement Project**

To: **Pawtucket School Department
ATTN: Melissa Devine, CFO
Reception, Door 1
286 Main Street
Pawtucket, RI 02860**

Bonds/Surety Required

Surety Bond = **Yes**

Bidder is required to provide a bid surety in the form of a bid bond or certified check payable to the City of Pawtucket in an amount not less than ten percent (10%) of the bid price.

Payment & Performance Bonds = Yes

The successful bidder will be required to furnish payment & performance bonds and all insurance documentation as outlined in the attached Purchasing Rules & Regulations and General Terms & Conditions of Purchase.

Miscellaneous

The bid process and resulting contract are subject to the Rules and Regulations and General Terms and Conditions of Purchase. Submission of a bid in response to this solicitation is acknowledgement and acceptance of these Rules and Regulations and General Terms and Conditions of Purchase.

The Pawtucket School Department reserves the right to award on the basis of cost alone, accept or reject any or all bids, and to act in its best interest. Proposals found to be technically or substantially non-responsive at any point in the evaluation process will be rejected and not considered further. Pawtucket School Department may, at its sole option, elect to require presentations(s) by bidders clearly in consideration for award.

2.0 - Instructions and Notifications to Bidders
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- It is the bidder's responsibility to examine all specifications and conditions thoroughly, as well as to comply fully with specifications and all attached terms and conditions. Bidders must comply with all Federal, State, and City laws, ordinances and regulations, and meet any and all registration requirements where required for contractors as set forth by the State of Rhode Island. Failure to make a complete submission as described herein may result in a rejection of the proposal.
- All costs associated with developing or submitting a proposal in response to this Request, or to provide oral or written clarification of its content shall be borne by the bidder. The Pawtucket School Department assumes no responsibility for these costs.
- A submittal may be withdrawn by written request to the Pawtucket School Department by the proposer prior to the stated RFP deadline. Contact:

Melissa Devine
Chief Financial Officer
devinem@psdri.net

- Prior to the proposal deadline established for this RFP, changes may be made to a proposal already received by the Pawtucket School Department if that bidder makes a request to the Chief Financial Officer, in writing, to do so. No changes to a proposal shall be made after the RFP deadline.

- Proposals are considered to be irrevocable for a period of not less than thirty (30) days following the opening date, and may not be withdrawn, except with the express written permission of the Chief Financial Officer. Should any bidder object to this condition, the bidder must provide objection through a question and/or complaint to the Chief Financial Officer prior to the proposal deadline.
- All pricing submitted will be considered to be firm and fixed unless otherwise indicated herein.
- The bidder has full responsibility to ensure that the proposal arrives at the stated bid location prior to the deadline set out herein. The Pawtucket School Department assumes no responsibility for delays caused by the U.S. Postal Service or any other delivery service. Postmarking by the due date will not substitute for actual receipt of response by the due date. Proposals arriving after the deadline may be returned, unopened, to the bidder, or may simply be declared non-responsive and not subject to evaluation, at the sole discretion of the Pawtucket School Department. **For the purposes of this requirement, the official time and date shall be that of the clock in the Pawtucket School Department's reception area.**
- It is intended that an award pursuant to this Request will be made to a prime contractor, who will assume responsibility for all aspects of the work. Joint venture and cooperative proposals will not be considered, but subcontracts are permitted, provided that their use is clearly indicated in the bidder's proposal, and the subcontractor(s) proposed to be used are identified in the proposal.
- Bidders are advised that all materials submitted to the Pawtucket School Department for consideration in response to this Request for Proposals shall be considered to be public records as defined in Title 38 Chapter 2 of the Rhode Island General Laws, without exception, and may be released for inspection immediately upon request once an award has been made.
- Bidders are responsible for errors and omissions in their proposals. No such error or omission shall diminish the bidder's obligations to the Pawtucket School Department.
- The Pawtucket School Department reserves the right to reject any or all proposals, or portions thereof, at any time, without penalty. The Pawtucket School Department also has the right to waive immaterial defects, minor irregularities and formalities in any submitted proposal at its sole discretion. All material submitted in response to this RFP shall become the property of the Pawtucket School Department upon delivery to the stated bid submission location.
- There will be a public bid opening immediately following the submission deadline.

3.0 - Overview

The Owner (Pawtucket School Department) through its Owner's Project Representative (Colliers Project Leaders) and its Architect (Wessling Architects) are soliciting bids for **the Goff Middle School Window Replacement Project**.

The Bid Documents, consisting of this RFP/Project Manual along with the Plans and Specifications prepared by Wessling Architects comprises the bidding and construction documentation for this project. This Invitation to Bid provides an overview of the bidding process and logistics for this project.

4.0 - Scope of Work

The full scope of the renovations is illustrated on the plans and within the specifications. These documents are available digitally by requesting them from Chris Spiegel at Colliers Project Leaders christopher.spiegel@collierseng.com **on December 12, 2022**.

PROJECT: Pawtucket School Department
Goff MS Window Replacement

OWNER: Pawtucket School Department
286 Main Street
Pawtucket, RI 02860

OWNER'S REPRESENTATIVE: Colliers Project Leaders
72 Pine Street
Providence, RI 02903

ARCHITECT: Wessling Architects
350 Granite St
Braintree, MA 02184

Project Description:

- a. **This project calls for the phased replacement of exterior windows at the Lyman B Goff Middle School.**

The schedule for the work calls for Award of the contract by **January 30 2023**, early submittal review and approval/materials acquisition to begin at this time. The schedule of construction, including abatement and demolition, will be determined after joint consultation with the Owner.

Phase:	Substantial Completion:	Final Completion:
I	August 18, 2023	August 31, 2023
II	August 16, 2024	August 30, 2024

All work shall be completed in conformance with the NE CHPS and Rhode Island Department of Education regulations as outlined in the bid documents.

All parking, storage and logistic items for construction will be confined to the construction areas as shown on the Bid Documents or as otherwise agreed to between the successful bidder and School Department. Smoking on School grounds is prohibited and failure to conform to this requirement will result in removal from the Project.

Bid Document Availability:

Project Documents will be made available by requesting them from Chris Spiegel at Colliers Project Leaders Christopher.spiegel@collierseng.com.

Prevailing Wage:

Local wage rates apply to this project. It is the responsibility of the Contractor before bid openings to request if necessary, any additional information on local Wage Rates for those trades-people who are not covered by the applicable local Wage Decision, but who may be employed for the proposed work under this Contract. The Contractor shall obtain the latest wage rates as issued by the Department of Labor and Training.

Contractors Subject to Provisions –Weekly Payment of Employees:

All contractors who have been awarded contracts for the Pawtucket School Department, by an awarding agency or authority of the state or of any city, town, committee or by any person or persons therein, in which state or municipal funds are used and of which the contract price shall be in excess of one thousand dollars (\$1,000) and their subcontractors on such public works shall pay their employees at weekly intervals and shall comply with the provisions set forth in 37-13-4 to 37-13-14, inclusive of the Rhode Island General Laws of 1956 as amended.

Ascertainment of Prevailing Rate of Wages:

Before entering into any contract with the Pawtucket School District, the bidders (General Contractor and Subcontractors) shall ascertain from the director of labor the general prevailing rate of the regular, holiday and overtime wages paid and the general prevailing payments on behalf of employees only, to lawful welfare, pension, vacation, apprentice training and educational funds (payments to said funds must constitute an ordinary business expense deduction for federal income tax purposes by contractors) in the city, town, village or other appropriate political subdivision of the state in which the work is to be performed, for each craft, mechanic, teamster, laborer or type of workman needed to execute the contract with the Pawtucket School Department, and shall specify in the call for bids for the contract and in the contract itself the general prevailing rate of the regular, holiday, and overtime wages paid and the payments on behalf of employees only to such welfare, pension, vacation, apprentice training and education funds existing in the locality for each craft, mechanic, teamster, laborer or type of workman needed to execute the contract or work.

Applicability and Determination of Prevailing Rate of Wages:

Every call for bids for (a) every contract in excess of one thousand dollars (\$1,000), to which the state of Rhode Island or any political subdivision thereof is party, for construction, alteration, and/or repair, including painting and decoration, of public buildings of the State of Rhode Island or any political subdivision thereof, and which requires or involves the employment of employees

shall contain a provision stating the minimum wages to be paid various types of employees which shall be based upon the wages that will be determined by the director of labor to be prevailing for the corresponding type of employees employed on projects of a character similar to the contract work in the city, town, village or other appropriate political subdivision of the State of Rhode Island in which the work is to be performed; and every contract shall contain a stipulation that the contractor or his subcontractor shall pay all said employees employed directly upon the site of the work, unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account, the full amounts accrued at time of payment computed at wage rates not less than those stated in the call for bids, regardless of any contractual relationships which may be alleged to exist between the contractor or subcontractor and such employees and that the scale of wages to be paid shall be posted by the contractor in a prominent and easily accessible place at the site of the work; and the further stipulation that there may be withheld from the contractors so much of accrued payments as may be considered necessary to pay to such employees employed by the contractor or any subcontractor on the work the difference between the rates of wages required by the contract to be paid said employees on the work and the rates of wages received by such employees and not refunded to the contractor, subcontractors, or their agents; (b) the (terms) “wages,” “scale of wages,” “wage rates,” “minimum wages,” and “prevailing wages” shall include:

1. The basic hourly rate of pay; and
2. The amount of
 - a. the rate of contribution made by a contractor or subcontractor to a trustee or to a third person pursuant to a fund, plan, or program; and
 - b. the rate of costs to the contractor or subcontractor which may be reasonably anticipated in providing benefits to employees pursuant to an enforceable commitment to carry out a financially responsible plan or program which was communicated in writing to the employees affected, for medical or hospital care, pensions on retirement or death, compensation for injuries or illness resulting from occupational activity, or insurance to provide any of the foregoing, for defraying costs of apprenticeship or other similar programs, or for other bona fide fringe benefits, but only where the contractor or subcontractor is not required by other federal, state, or local law to provide any of such benefits: Provided, that the obligation of a contractor or subcontractor to make payment in accordance with the prevailing wage determinations of director of labor insofar as this chapter of this title and other acts incorporating this chapter of this title by reference are concerned may be discharged by the making of payments in cash, by the making of contributions of a type referred to in paragraph (2) (A), or by the assumption of an enforceable commitment to bear the costs of a plan or program of a type referred to in paragraph (2) (B), or any combination thereof, where the aggregate of any such payments, contributions, and costs is not less than the rate of pay described in paragraph (1) plus the amount referred to in paragraph (2).

Prevailing Rate of Wages for Rhode Island:

The latest revisions of the wages rates may be examined during business hours at the office of the Director of Labor or visit <http://www.access.gpo.gov/davisbacon/index.html>.

Minority Business Enterprise (MBE)

“In accordance with RI Gen. Law § 37-14.1-1, it is the policy of the State of Rhode Island to support the fullest possible participation of firms owned and controlled by minorities (MBEs) and women (WBEs). Pursuant to §§ 37-14.1-2 and 37-14.1-6, MBEs and WBEs shall be included in all state purchasing, including, but not limited to, the procurement of goods, services, construction projects, or contracts funded in whole or in part with state funds, or funds which, in accordance with a federal grant or otherwise, the state expends or administers. MBEs and WBEs shall be awarded a minimum of ten percent (10%) of the dollar value of the entire procurement or project. MBE participation credit shall only be granted for firms duly certified as MBEs or WBEs by the State of Rhode Island, Department of Administration, Office of Diversity, Equity and Opportunity, MBE Compliance Office (MBECO). The current directory of firms certified as MBEs or WBEs may be accessed at <http://odeo.ri.gov/offices/mbeco/mbe-wbe.php> or by contacting Dorinda Keene at the MBECO at (401) 574-8670 or via email at Dorinda.Keene@doa.ri.gov”

Compliance with 10% MBE participation is part of the selection criteria.

State Public Works Contract Apprenticeship Requirements.

Notwithstanding any laws to the contrary, all general contractors and subcontractors who perform work on any public works contract awarded by the state after passage of this act and valued at one million dollars (\$1,000,000) or more shall employ apprentices required for the performance of the awarded contract. The number of apprentices shall comply with the apprentice-to-journeyman ratio for each trade approved by the apprenticeship council of the department of labor and training. To the extent that any of the provisions contained in this section conflict with the requirements for federal aid contracts, federal law and regulations shall control.

If the general contractor employs apprentices, then the apprentices must be subject to an apprenticeship agreement as defined by R. I. Gen. Laws § 28-45-10 in order for the general contractor to qualify for payment of the applicable apprentice wage rate set forth on the wage schedule pursuant to Rule 5 herein.

Prior to bidding on a state public works contract valued at One Million Dollars (\$1,000,000) or more, the general contractor shall certify compliance with apprenticeship requirements by fully executing a General Contractor Apprenticeship Certification Form. The general contractor shall meet one of the qualifications identified on said form. The general contractor shall attach said form to his/her application to bid and submit to the awarding authority.

No contract award for a state public works contract valued at One Million Dollars (\$1,000,000) or more shall be made to any general contractor who fails to submit a fully executed and truthful General Contractor Apprenticeship Certification Form.

Collaborative for High Performance Schools:

The Collaborative for High Performance Schools (CHPS) criteria will be implemented on the project. CHPS is a leading national movement with the goal of making schools better places to learn. CHPS' mission is to facilitate the design, construction and operation of high performance schools: environments that are not only energy and resource efficient, but also healthy, comfortable, well lit, and containing the amenities needed for a quality education. The selected contractor shall provide all material and perform all work so as to adhere to the guidelines of the CHPS program and provide the necessary submittals and other documentation required for the project to achieve CHPS certification.

Form of Contract*:

A lump sum contract (AIA: A101 and A201 modified) will be executed with the successful bidder for the construction of the entire project. The AIA: A101 and A201 as modified and included in the bid documents will be utilized.

**No exception to the scope of work or contract will be considered unless such notification is given before the Bid Due date and within the Bid Submission.*

Bonds:

A Bid Bond in the amount of 10% of the bid must accompany each bid in accordance with the Instructions to Bidders. Checks for Bid Security will not be accepted in lieu of a Bid Bond.

Federal Requirements

Please Note: This project is funded using Federal funding mechanisms (ESSER III). It is the contractor's responsibility to familiarize themselves with, and enforce compliance of, any and all regulations governing construction projects funded with Federal monies.

SECTION 00 50 04 - WORK PRACTICES*Part 1 - General*

- 1.0 The construction barricades/temporary protection, where indicated on the contract documents, shall be inspected daily. Any corrections that are necessary to maintain security and keep the screening material in good shape shall be done following the daily inspection.
- 2.0 Contractor parking and storage will be located within the area designated by the Owner.
- 3.0 All construction debris and rubbish caused by the work is to be kept off of the premises and the surrounding area. The jobsite is to be cleaned daily and all construction materials, tools, equipment, machinery and surplus materials shall be kept neat and orderly. The Owner reserves the right to request that the jobsite be cleaned when necessary.
- 4.0 Dust control will be provided when necessary or when requested by the Owner.
- 5.0 The contractor shall make every effort to limit the amount of noise caused by construction operations. All equipment shall be equipped with silencers or mufflers designed to operate with the least possible noise in compliance with City, State and Federal regulations. No fossil fuel powered equipment shall be operated within the building.

- 6.0 Construction utilities costs such as special connections, delivery and generation costs outside of the building's regular power system shall be included in the bid price and paid by the contractor, not the Owner.
- 7.0 No signs or advertisements of any kind, other than a Project Sign will be allowed on the premises unless prior written consent has been obtained from the Pawtucket School Department.
- 8.0 The employer and supervisor are responsible at all times for the actions and behavior of their employees. It is expected that all contractors/vendors and their employees/workers will act appropriately while on the Pawtucket School Department property. Obscenity, inappropriate behavior and loud and vulgar language will not be tolerated. Any contractor/vendor or employee/worker overheard employing such language or observed behaving in an inappropriate manner will be removed from the site immediately.
- 9.0 All personnel shall have appropriately attire, shirts and shoes, are required at all times. All necessary safety equipment shall be worn where and when required.
- 10.0 OSHA 10 CERTIFICATION for all workers and employees to be employed at the worksite is required. Each individual shall have successfully completed required course in construction safety and health approved by the United States Occupational Safety and Health Administration.
- 11.0 Firearms, the use or possession of alcohol or illegal drugs or tobacco on the Pawtucket School Department property is strictly prohibited. Any individual who is in possession of a firearm (whether or not properly registered) or is under the influence of illegal drugs or alcohol, or in possession of such shall be removed immediately from the property.
- 12.0 The Pawtucket School Department may at any time require criminal record check of any and all personnel onsite. Any personnel not passing or providing proper information to complete the check shall be removed immediately from the property.

5.0 - Insurance

The vendor shall maintain and keep in force such comprehensive general liability insurance as shall protect them from claims which may arise from operations under any contract entered into with the Pawtucket School Department, whether such operations be by themselves or by anyone directly or indirectly employed by them.

The amounts of insurance shall be not less than \$1,000,000.00 combined single limit for any one occurrence covering both bodily injury and property damage, including accidental death.

The Pawtucket School Department, City of Pawtucket, Architect and OPM shall be named as additional insured on the vendor's General Liability Policy.

The vendor shall maintain and keep in force such Workers' compensation insurance limits as required by the statutes of the State of Rhode Island, and Employer's Liability with limits no less than \$500,000.

6.0 - Acknowledgement of Risk & Hold Harmless Agreement

In addition to the indemnity provisions specified in the Contract Documents and to the fullest extent permitted by law, the selected bidder, its officers, agents, servants, employees, parents, subsidiaries, partners, officers, directors, attorneys, insurers, and/or affiliates (Releasers) agree to release, waive, discharge and covenant not to sue the Pawtucket School Department, City of Pawtucket, its officers, agents, servants or employees (Releasees) from any and all liability, claims, cross-claims, rights in law or in equity, agreements, promises demands, actions and causes of action whatsoever arising out of or related to any loss, damage, expenses (including without limitation, all legal fees, expenses, interest and penalties) or injury (including death), of any type, kind or nature whatsoever, whether based in contract, tort, warranty, or other legal, statutory, or equitable theory of recovery, which relate to or arise out of the Releasers use of or presence in and/or on Pawtucket School Department and/or City of Pawtucket property. The Releasers agree to defend, indemnify and hold harmless the Releasees from (a) any and all claims, loss, liability, damages or costs by any person, firm, corporation or other entity claiming by, through or under Releasers in any capacity whatsoever, including all subrogation claims and/or claims for reimbursement, including any court costs and attorney's fees, that may incur due to Releasers use of or presence in and on Pawtucket School Department and/or City of Pawtucket property; and (b) any and all legal actions, including third-party actions, cross-actions, and/or claims for contribution and/or indemnity with respect to any claims by any other persons, entities, parties, which relate to or arise out of Releasers use of or presence in and on Pawtucket School Department and/or City of Pawtucket property.

The Releasers acknowledge the risks that may be involved, and hazards connected with use of or presence in and on Pawtucket School Department and/or City of Pawtucket property but elect to provide services under any contract with the Pawtucket School Department and/or City of Pawtucket with full knowledge of such risks. Releasers also acknowledge that any loss, damage, and/or injury sustained by Releasers are not covered by Releasees insurance. Releasers agree to become fully aware of any safety risks involved with the performance of services under any contract with the Pawtucket School Department and/or City of Pawtucket and any safety precautions that need to be followed and agree to take all such precautions.

The duty to indemnify and/or hold harmless the Pawtucket School Department and/or City of Pawtucket shall not be limited by the insurance required by the Contract Documents.

7.0 - Additional Insurance Requirements

In addition to the insurance provisions in the Contract Documents, the liability insurance coverage, except Professional Liability, Errors and Omissions or Workers' Compensation insurance required for performance of a contract with the Pawtucket School Department and/or City of Pawtucket shall include the Pawtucket School Department, City of Pawtucket, its divisions, officers and employees, the Architect and OPM as Additional Insureds but only with respect to the selected bidder's activities under the contract. The insurance required through a policy or endorsement shall include:

- A. a Waiver of Subrogation waiving any right to recovery the insurance company may have against the Pawtucket School Department and/or City of Pawtucket; and

- B. a provision that the selected vendor's insurance coverage shall be primary with respect to any insurance, self-insurance or self-retention maintained by the Pawtucket School Department and/or City of Pawtucket and that any insurance, self-insurance or self-retention maintained by the Pawtucket School Department and/or City of Pawtucket shall be in excess of the selected vendor's insurance and shall not contribute.

There shall be no cancellation, material change, potential exhaustion of aggregate limits or non-renewal without thirty (30) days written notice from the selected vendor or its insurer(s) to the Pawtucket School Department's Chief Financial Officer. Any failure to comply with the reporting provision of this clause shall be grounds for immediate termination of the contract with the Pawtucket School Department and/or City of Pawtucket.

Insurance coverage required under the contract shall be obtained from insurance companies acceptable to the Pawtucket School Department. The selected vendor shall pay for all deductibles, self-insured retentions and/or self-insurance included hereunder.

The Pawtucket School Department's Chief Financial Officer reserves the right to consider and accept alternative forms and plans of insurance or to require additional or more extensive coverage for any individual requirement.

8.0 - Proposal Content and Organization

Pricing must include all costs as specified in this solicitation. Pricing for this proposal must be indicated on the Bid Forms in Sections 11.0, 12.0 and 13.0 and must be submitted in a separate, sealed envelope labeled as previously stated above.

All Bid Forms must be signed.

If any subcontractors are to be used in the performance of any work contracted for under this RFP, please list their name(s), contractor license #, address and phone number, and specific description of the subcontract work to be performed.

Four (4) copies of your proposal, one (1) original and three (3) copies, must be submitted at the time of submission. As well as one (1) electronic copy on a flash drive.

Please state any and all additions, deletions, and exceptions, if any, that you are taking to any portion of this proposal. If not addressed specifically, the Pawtucket School Department assumes that the bidder will adhere to all terms and conditions listed in this RFP.

9.0 - Evaluation Criteria

The evaluation of proposals will be conducted in an expeditious time frame convenient to the Pawtucket School Department.

The Pawtucket School Department reserves the right to award on the basis of cost alone, accept or reject any or all proposals, and to otherwise act in its best interest. Further, the Pawtucket School Department reserves the right to waive irregularities it may deem minor in its consideration of proposals.

Proposals will be evaluated in three (3) phases:

1. The first phase is an initial review to determine if the proposal, as submitted, is complete. To be complete, a proposal must meet all the requirements of this RFP.
2. The second phase is an in-depth analysis and review based on criteria below and their associated weights.

<u>Evaluation Criteria</u>	<u>Importance</u>
Experience/Qualifications, compliance MBE participation and inclusion of Pawtucket Businesses for both the General Contractor and Sub-Contractors	35%
References	35%
Cost	30%

3. The third is a comparison of each proposal's weighted evaluation relative to the costs proposed.

In the event that the Pawtucket School Department requires further information and/or a demonstration of any equipment or process offered in any proposal, all vendors asked for same will do so at no cost to the Pawtucket School Department.

10.0 - Miscellaneous

Bidders shall at all times comply with all federal, state, and local laws, ordinances and regulations and shall defend, indemnify and save harmless the Pawtucket School Department and/or City of Pawtucket against any claims arising from the violation of any such laws, ordinances and regulations, including but not limited to challenges as to the legality of any and all vendor installations.

The Pawtucket School Department is exempt from the payment of the Rhode Island State Sales Tax under the 1956 General Laws of the State of Rhode Island, 44-18-30, Paragraph 1, as amended. Further, the Pawtucket School Department is also exempt from the payment of any excise or federal transportation taxes. The proposal prices submitted must be exclusive of same, and will be so construed.

The Pawtucket School Department reserves the right to cancel an agreement with the bidder with thirty (30) days written notice and to award the contract to the next highest evaluated bidder.

Political Contributions: The General Contractor shall provide a list of all political contributions, made directly or indirectly to any candidate for municipal office in the City of Pawtucket, by the Owner, its key staff, its subcontractors and their key staff for the last five (5) years.

11.0 – Bid Form

**C2022-019 Lyman Goff Middle School
Window Replacement**

Date: _____

Submitted By: _____

(Include Name, Address and Telephone No.) _____

Name and remittance address that will
appear on invoices:

Physical address of business:

General Information

Is your firm a sole proprietorship doing business under a different name? ____ Yes ____ No

If yes, please indicate sole proprietorship, a name, and the name you are doing business under.

Is your firm incorporated? ____ Yes ____ No

Will any of the work spelled out in this bid be outsourced? ____ Yes ____ No

If so, please explain below:

SECTION 001000 - BID/SOLICITATION INFORMATION

**January 6, 2023
Addendum #2 - Reissued**

Have you or your firm been subject to suspension, debarment or criminal conviction by the Pawtucket School Department and/or City of Pawtucket, the State of Rhode Island, or any other jurisdiction?

Yes: _____ No: _____

Have the Pawtucket School Department and/or City of Pawtucket and/or the State of Rhode Island ever terminated contracts with your firm for cause?

Yes: _____ No: _____

Has your firm ever withdrawn from a contract with the Pawtucket School Department and/or City of Pawtucket and/or the State of Rhode Island during its performance?

Yes: _____ No: _____

Have you or your firm been involved in litigation against the Pawtucket School Department and/or City of Pawtucket and/or the State of Rhode Island.

Yes: _____ No: _____

If you answered yes to any of the foregoing, please explain the circumstances below. If you or your firm has been involved in litigation against the Pawtucket School Department and/or City of Pawtucket and/or the State of Rhode Island, please include the case caption, case number and status. (If more space is needed, please attach separate sheet and submit with the bid.)

Is your company bonded? Yes ____ No ____

Please describe the nature and extent of all insurance coverage:

SECTION 001000 - BID/SOLICITATION INFORMATION

**January 6, 2023
Addendum #2 - Reissued**

MBE Participation

MBE _____%

Project Total Value \$ _____

Amount going to MBE \$ _____

Pawtucket Businesses Participation

Company Name: _____

Pawtucket Businesses Participation _____%

Project Total Value \$ _____

Amount going to Pawtucket Businesses \$ _____

Addenda

The following Addenda have been received. The noted modifications to the Bidding Documents have been considered and all costs are included in the Bid Sum.

Addendum #1, Dated: _____

Addendum #2, Dated: _____

Addendum #3, Dated: _____

Addendum #4, Dated: _____

Pricing Proposal

C2022-019: Lyman Goff Middle School Window Replacement

Having examined the bid documents, we propose to enter into a contract to perform services per the bid specifications for the costs listed below:

A.

BASE BID:

Having carefully examined Contract Documents listed in The Project Manual, and consisting of Instructions to Bidders, all drawings, the entire project manual inclusive of but not limited to, 000402 Tax Exemption, 005001 AIA A101 Agreement between Owner & Contractor (modified), 005002 AIA A201 General Conditions of the Contract for Construction (modified), 005004 Work Practices, 015733 Temporary Indoor Air Quality Control, 017419 Construction Waste Management and Disposal, 018113 Sustainable Design Requirements, all Addenda as specifically listed below, and having examined the site and being familiar with conditions affecting work, Undersigned proposes to furnish materials and labor and perform Construction work as indicated with a hundred 100% payment and performance bond to complete the Pawtucket School Department C2022-015 Project work as called for by Bidding Documents for the Stipulated Sum of:

\$														
----	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Numeric

Written

Undersigned agrees above stipulated sum is firm price including applicable taxes and is not subject to extras or escalator clauses.

B. ALTERNATES:

- A. Definition: An alternate is an amount proposed by Bidders and stated on the Bid Form that will be added or deleted to the Base Bid amount if the Owner decides to accept a corresponding change in either scope of work or in products, materials, equipment, systems or installation methods described in contract documents.
1. Owner acceptance of the change shall constitute the “exercise” of the alternate.
 2. The Owner shall have sole discretion as to whether to exercise the alternate or not and shall bear no liability to the bidder for the exercise or non-exercise of the alternate.
- B. Performance Period: Should the Owner exercise any or all of the alternates, the work included in each alternate shall be performed concurrently with the base contract work. There shall be no extension in contract performance time with the exercise of any or all alternates.
- C. Coordination:
1. Coordinate related work and modify or adjust adjacent work as required to ensure that work affected by each accepted alternate is complete and fully integrated into the project.
 2. Each alternate description may include certain work which must be included in the Base Bid to make the work complete IF the particular alternates are NOT exercised. The work shown on the drawings and described below as part of the alternate shall be priced separately and listed in the appropriate place on the Bid Form, and should NOT be included in the Base Bid. The option price is the difference between the work described in the alternate and the work included in the Base Bid.
 3. All bidders shall provide a price for each alternate in the place provided on the Bid Form.
- D. Notification: Immediately following award of contract, prepare and distribute to each party involved, notification of the status of each alternate. Indicate whether alternates have been accepted, or rejected.
- E. Schedule: A "Schedule of Alternates" is included at the end of this section. Specification sections referenced in the schedule contain requirements for materials and methods necessary to achieve the work described under each alternate.
1. Include as part of each alternate, miscellaneous devices, appurtenances and similar items incidental to or required for a complete installation whether or not mentioned as part of the alternate.

2. Include as part of the price of each alternate all costs attributable to project General Conditions, Supplementary Conditions, Division 1 Requirements, overhead and profit. No additional payments will be made by the Owner for the work of any alternate which is exercised beyond the Alternate Price listed, except in accordance with contract provisions related to Changes in the Work.
 3. Include as part of the base Bid all work identified in each description as Base Bid work. The items so designated constitute the work required to make the total project complete IF the alternate is Not exercised by the Owner.
- F. **Please see below Alternates : NOT USED.**

1.02 ALLOWANCES/UNIT PRICES

The following amounts will be included in the Bid:

- A. Definition: An allowance where stipulated on the Drawings or the Bid Form is a sum of money which is to be used on the project at the discretion of the Owner's Representative for purposes that are undefined due to unknown conditions at the time of the Contract date. At the completion of the project, the unused portion of the Allowance is to be deducted from the contract sum.
- B. Definition: A Unit Price where stipulated on the Bid Form is the cost of a particular material to be provided and installed on site and includes all costs of labor and material to be either added to or deducted from the Contract Sum. A summary of the material changes, their locations in sketch form will be submitted to the Architect for approval. Change Orders resulting from unit pricing will not be approved without the Owner's prior approval in written form.

1. Allow cost to repair 100 square feet of damaged concrete. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. Provide unit price for concrete repair. This allowance is for work beyond that shown in the drawings.

\$ _____	_____	_____
Cost for 100 square feet	In words	Per S.F.

2. Allow cost to repair 60 linear feet of cracked concrete. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. Provide unit price for concrete crack repair. This allowance is for work beyond that shown in the drawings.

\$ _____	_____	_____
Cost for 60 linear feet	In words	Per L.F.

SECTION 001000 - BID/SOLICITATION INFORMATION**January 6, 2023
Addendum #2 - Reissued**

3. Allow cost to repair 120 linear feet of cracked stone. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. Provide unit price for stone crack repair. This allowance is for work beyond that shown in the drawings.

\$ _____
Cost for 120 linear feet In words Per L.F.

4. Allow cost to remove and replace 100 linear feet of mortar. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. Provide unit price for mortar replacement. This allowance is for work beyond that shown in the drawings.

\$ _____
Cost for 100 linear feet In words Per L.F.

5. Allow cost to remove and replace 20 units of cracked brick masonry and mortar to match existing. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. Provide unit price for brick masonry unit and mortar. This allowance is for work beyond that shown in the drawings.

\$ _____
Cost for 20 units In words Per unit

6. Allow cost to remove and replace 5 board units of wood trim. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. Provide unit price for board unit of wood trim at 1" thick by 6" wide by 10' long. This allowance is for work beyond that shown in the drawings.

\$ _____
Cost for 5 boards In words Per board unit

7. Allow cost to remove and replace 120 linear feet of backer rod and sealant. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. Provide unit price for linear foot of joint. This allowance is for work beyond that shown in the drawings.

\$ _____
Cost for 120 linear feet In words Per L.F.

8. Allow cost to repair 80 square feet of plaster walls and ceilings beyond that required for window reinstallation as detailed. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. Provide unit price for plaster base and skim coat. This allowance is for work beyond that shown in the drawings.

\$ _____
Cost for 80 square feet In words Per S.F.

9. Allow cost to surface prep and re-paint 80 square feet of plaster walls and ceilings beyond that required for window reinstallation as detailed. The unused allowance shall be

SECTION 001000 - BID/SOLICITATION INFORMATION**January 6, 2023
Addendum #2 - Reissued**

reimbursed to the owner or added to the contract at the unit price listed. Allow unit price for surface prep and re-painting. This allowance is for work beyond that shown in the drawings.

\$ _____
Cost for 80 square feet In words Per S.F.

10. Allow cost to remove and reinstall existing outlet and up to 20' of wiring and conduit back to a new junction box. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. Provide unit price per outlet. This allowance is for work beyond that shown in the drawings.

\$ _____
Cost for 10 outlets In words Per outlet

11. Allow cost to replace existing damaged laminate sills with new Corian sills. The unused allowance shall be reimbursed to the owner or added to the contract at the unit price listed. **Provide unit price per square foot.** This allowance is for work beyond that shown in the drawings.

\$ _____
Cost for 800 square feet In words Per S.F.

E. ADDENDA:

Undersigned certifies that the Base Bid includes Addenda listed below and they are hereby acknowledged as having been received and carefully reviewed by the Bid Due Date:

Addendum No.	Dated:
Addendum No.	Dated:
Addendum No.	Dated:
Addendum No.	Dated:

F. PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT BOND:

Cost for providing Performance and Labor and Materials Payment Bond for the sum of the General Contractor's change orders:

Add _____% of Total Construction Value from \$ _____ to maximum of \$ _____.

Add _____% of next Total Construction Value from \$ _____ to maximum of \$ _____.

Add _____% of next Total Construction Value from \$ _____ to maximum of \$ _____.

G. LABOR AND MATERIAL RATES:

Labor: Unit rates shall be listed for major trades such as, but not limited to, abatement, carpenters, laborers, masons, heavy equipment operators, operators, electricians, HVAC technicians, Foreman/Supervisor for each trade, site superintendent and any other major trade employed in the completion of the Work. Labor rates shall include all overhead, profit, insurance and supervision costs, and shall not be subject to any further markups when utilized in the computation of a Change Order amount. The Owner reserves the right to request additional labor rates. Use additional pages if space provided below is not sufficient.

Trade: Laborer Foreman Rate:	\$_____ per hour
Trade: Laborer Rate:	\$_____ per hour
Trade: Carpenter Foreman Rate:	\$_____ per hour
Trade: Carpenter Rate:	\$_____ per hour
Trade: Gypsum (Tape/ sand) Foreman Rate:	\$_____ per hour
Trade: Gypsum (Tape/ sand) Rate:	\$_____ per hour
Trade: Electrical Foreman Rate:	\$_____ per hour
Trade: Electrical Journeyman Rate:	\$_____ per hour
Trade: Electrical Apprentice Rate:	\$_____ per hour
Trade: Fire Alarm Foreman Rate:	\$_____ per hour
Trade: Fire Alarm Rate:	\$_____ per hour
Trade: HVAC Foreman Rate:	\$_____ per hour
Trade: HVAC Rate:	\$_____ per hour
Trade: Plumbing Foreman Rate:	\$_____ per hour
Trade: Plumber Rate:	\$_____ per hour
Trade: ATC Foreman Rate:	\$_____ per hour
Trade: ATC Design Engineer Rate:	\$_____ per hour
Trade: ATC Programmer Rate:	\$_____ per hour
Trade: ATC Technician Rate:	\$_____ per hour
Trade: Pipe Fitter Rate:	\$_____ per hour
Trade: Sheet Metal Foreman Rate:	\$_____ per hour
Trade: Sheet Metal Worker Rate:	\$_____ per hour
Trade: Insulator Foreman Rate:	\$_____ per hour
Trade: Insulator Rate:	\$_____ per hour
Trade: Flooring Foreman Rate:	\$_____ per hour
Trade: Flooring Installer Rate:	\$_____ per hour

SECTION 001000 - BID/SOLICITATION INFORMATION**January 6, 2023
Addendum #2 - Reissued**

Trade: Painting Foreman Rate: \$_____ per hour
Trade: Painter Rate: \$_____ per hour
Trade: Abatement Foreman Rate: \$_____ per hour
Trade: Abatement Laborer Rate: \$_____ per hour
Trade: Roofing Foreman Rate: \$_____ per hour
Trade: Roofer Rate: \$_____ per hour

Include additional trade labor rates below:

Trade: _____ Rate: \$_____ per hour
Trade: _____ Rate: \$_____ per hour
Trade: _____ Rate: \$_____ per hour
Trade: _____ Rate: \$_____ per hour
Trade: _____ Rate: \$_____ per hour
Trade: _____ Rate: \$_____ per hour
Trade: _____ Rate: \$_____ per hour
Trade: _____ Rate: \$_____ per hour

Material and Equipment: Material and equipment charges used to compute Contract Change Orders will be based on original supplier invoices and a standard markup of ten Percent (10%).

These standard markups shall include all administrative and delivery and handling charges and shall not be subject to any further mark-up.

H. FEE FOR CHANGES IN THE WORK:

The total mark-up for each change shall not exceed 15% (10% for overhead + 5% for profit). For changes where the work is performed totally by the Undersigned Bidder's direct forces, the 15% mark-up shall be assigned to the Undersigned Bidder as the prime contractor. For work performed by a subcontractor(s), a maximum of 10% mark-up will be assigned to all subcontractors and/or sub-subcontractors performing work and 5% will be assigned to the Undersigned Bidder and prime contractor. Unit labor costs are all-inclusive of all OH&P and shall not be subject to further mark-up. The change order mark-ups include all overhead, coordination, bond, insurance, profit and supervision costs, and these items shall not be subject to any further markups when utilized in the computation of a Change Order amount.

For changes which add additional time to the contract completion date, the General Conditions cost impact shall be as listed on the schedule of unit rates above. The unit rate for the general conditions associated with the time extension shall be inclusive of all direct and indirect costs and fees, including but not limited to all overhead, coordination, bond, insurance, cleaning, site support, management, profit and supervision costs, and shall not be subject to any further markups when utilized in the computation of a Change Order. Unit rate shall be for one (1) additional work day.

I. OTHER CERTIFICATIONS:

Undersigned agrees to execute Contract for above work for the above stipulated sum provided that he be notified of acceptance of bid within ninety (30) days after time set for the receipt of bids. Undersigned agrees to execute contract and deliver it to the Owner.

Undersigned agrees by submission of this bid that the bidder is the only interested party submitting this bid, that the Contract Documents are incorporated herein, that there is no collusion, and the contract will not be assigned with written consent of the Owner.

Undersigned certifies that included within their bid are only employees and subcontractor employees that will be employed at the worksite that have successfully completed and obtained certification in a course in construction safety and health approved by the United States Occupational Safety and Health Administration as required by the laws of the state.

Undersigned certifies that it has provided the Bid Security Bond properly executed following items with this bid form.

Undersigned certifies, under penalty of perjury, that to the best of his knowledge and belief that:

The prices in this Bid have been arrived at independently without collusion, consultation, communication or agreement with any other Bidder or competition on any matter whatsoever for the purpose of restricting competition;

Except as may be required by law, prices quoted in this Bid have not been knowingly disclosed prior to the opening of Bids; and

No attempt has been made nor will be made by the Bidder to induce any other person, partnership, or corporation to submit or to refrain from submitting a Bid for this Project.

Undersigned represents to Owner that it has the labor, machinery, equipment, supplies, and credit to meet the schedule completion requirements more specifically enumerated in the Section 10000 – General Requirements.

Firm: _____

Authorized
Representative: _____

Title: _____

Signature: _____

Date: _____

(Corp. Seal)

(Notary Seal)

Appendix A

ANTI-KICKBACK ACKNOWLEDGMENT

ALL BIDDERS/OFFERORS MUST ATTEST TO THE FOLLOWING:

The vendor acknowledges, under the pains and penalties of perjury, that he/she has not been offered, paid, or solicited for any contribution or compensation, nor has he/she been granted a gift, gratuity, or other consideration, either directly or indirectly by any officer, employee or member of the governing body of the Pawtucket School Department and/or City of Pawtucket who exercises any functions or responsibilities in connection with either the award or execution of the project to which this contract pertains.

Further, the vendor acknowledges, under the pains and penalties of perjury, that he/she has not offered, paid, or solicited by way of any contribution or compensation, nor has he/she granted a gift, gratuity or other consideration either directly or indirectly to any officer, employee, or member of the governing body of the Pawtucket School Department and/or City of Pawtucket who exercises any functions or responsibilities in connection with either the award or execution of the project to which this project or contract pertains.

SIGNATURE OF OFFEROR

DATE

TITLE

COMPANY

Title of RFP:

ORIGINAL: AUGUST/2001

REVISED: APRIL/2006

Appendix B**CITY OF PAWTUCKET
GENERAL TERMS AND CONDITIONS OF PURCHASE***Preamble*

The City of Pawtucket's Purchasing Office may, from time to time, make amendments to the General Terms and Conditions when the City of Pawtucket's Purchasing Agent determines that such amendments are in the best interest of the City of Pawtucket. Amendments shall be made available for public inspection at the Purchasing Office located in Pawtucket City Hall but shall not require formal public notice and hearing. Copies of the Terms and Conditions shall be provided to any individual or firm requesting them.

CITY OF PAWTUCKET'S PURCHASING OFFICE GENERAL CONDITIONS OF PURCHASE

All City of Pawtucket purchase orders, contracts, solicitations, delivery orders and service requests shall incorporate and be subject to the provisions of Rhode Island General Laws 8-15-4 and the City of Pawtucket purchasing rules and regulations adopted pursuant thereto, all other applicable provisions of the Rhode Island General Laws, the Pawtucket City Charter, specific requirements described in the Request or Contract, and the following General Conditions of Purchase:

1. GENERAL

All purchase orders, contracts, solicitations, delivery orders, and service requests are for specified goods and services, in accordance with express terms and conditions of purchase, as defined herein. For the purposes of this document, the terms "bidder" and "contractor" refer to any individual, firm, corporation, or other entity presenting a proposal indicating a desire to enter into contracts with the City of Pawtucket, or with whom a contract is executed by the City of Pawtucket's Purchasing Agent, and the term "contractor" shall have the same meaning as "vendor".

2. ENTIRE AGREEMENT

The City of Pawtucket's Purchase Order, or other City of Pawtucket contract endorsed by the City of Pawtucket Purchasing Office, shall constitute the entire and exclusive agreement between the City of Pawtucket and any contractor receiving an award. In the event any conflict between the bidder's standard terms of sale, these conditions or more specific provisions contained in the solicitation shall govern.

All communication between the City of Pawtucket and any contractor pertaining to any award or contract shall be accomplished in writing.

- a. Each proposal will be received with the understanding that the acceptance, in writing, by contract or Purchase Order by the City of Pawtucket Purchasing Agent of the offer to do work or to furnish any or all the materials, equipment, supplies or services described therein shall constitute a contract between the bidder and the City of Pawtucket. This shall bind the bidder on his part to furnish and deliver at the prices and in accordance with the conditions of said accepted proposal and detailed specifications and the City of Pawtucket on its part to order from such contractor (except in case of emergency) and to pay for at the agreed prices, all materials, equipment, supplies or services specified and delivered. A contract shall be deemed executory only to the extent of funds available for payment of the amounts shown on Purchase Orders issued by the City of Pawtucket to the contractors.
- b. No alterations or variations of the terms of the contract shall be valid or binding upon the City of Pawtucket unless submitted in writing and accepted by the City of Pawtucket Purchasing Agent. All orders and changes thereof must emanate from the City of Pawtucket Purchasing Office: no oral agreement or arrangement made by a contractor with a department or employee will be considered to be binding on the City of Pawtucket Purchasing Agent, and may be disregarded.
- c. Contracts will remain in force for the contract period specified or until all articles or services ordered before date of termination shall have been satisfactorily delivered or rendered and accepted and thereafter until all terms and conditions have been met, unless:
 1. terminated prior to expiration date by satisfactory delivery against orders of entire quantities, or

2. extended upon written authorization of the City of Pawtucket Purchasing Agent and accepted by the contractor, to permit ordering of the unordered balances or additional quantities at the contract price and in accordance with the contract terms, or
3. canceled by the City of Pawtucket in accordance with other provisions stated herein.
 - d. It is mutually understood and agreed that the contractor shall not assign, transfer, convey, sublet or otherwise dispose of this contract or his right, title or interest therein, or his power to execute such contract, to any other person, company or corporation, without the previous consent, in writing, of the City of Pawtucket Purchasing Agent.
 - e. If, subsequent to the submission of an offer or issuance of a purchase order or execution of a contract, the bidder or contractor shall merge with or be acquired by another entity, the contract may be terminated, except as a corporate resolution prepared by the contractor and the new entity ratifying acceptance of the original bid or contract terms, condition, and pricing is submitted to the City of Pawtucket Purchasing Office, and expressly accepted.
 - f. The contractor or bidder further warrants by submission of an offer or acceptance of a purchase order or other contract that he has no knowledge at the time of such action of any outstanding and delinquent or otherwise unsettled debt owed by him to the City of Pawtucket, and agrees that later discovery by the City of Pawtucket Purchasing Agent that this warranty was given in spite of such knowledge, except where the matter is pending in hearing or from any appeal therefrom, shall form reasonable grounds for termination of the contract.

3. **SUBCONTRACTS**

No subcontracts or collateral agreements shall be permitted, except with the City of Pawtucket's express written consent. Upon request, contractors must submit to the City of Pawtucket Purchasing Office a list of all subcontractors to be employed in the performance of any Purchase Order or other contract arising from this Request.

4. **RELATIONSHIP OF PARTIES**

The contractor or bidder warrants, by submission of an offer or acceptance of a purchase order or other contract, that he is not an employee, agent, or servant of the City of Pawtucket, and that he is fully qualified and capable in all material regards to provide the specified goods and services. Nothing herein shall be construed as creating any contractual relationship or obligation between the City of Pawtucket and any sub-bidder, subcontractor, supplier, or employee of the contractor or offeror.

5. **COSTS OF PREPARATION**

All costs associated with the preparation, development, or submission of bids or other offers will be borne by the offeror. The City of Pawtucket will not reimburse any offeror for such costs.

6. **SPECIFIED QUANTITY REQUIREMENT**

Except where expressly specified to the contrary, all solicitations and contracts are predicated on a specified quantity of goods or services, or for a specified level of funding.

- a. The City of Pawtucket reserves the right to modify the quantity, scope of service, date of delivery or completion, or funding of any contract, with no penalty or charge, by written notice to the contractor, except where alternate terms have been expressly made a part of the contract.
- b. The City of Pawtucket shall not accept quantities in excess of the specified quantity except where the item is normally sold by weight (where sold by weight, the City of Pawtucket will not accept quantities greater than ten per cent [10%] of the specified quantity), or where the Request or Contract provides for awards for other than exact quantities.
- c. Purchase Orders or other contracts may be increased in quantity or extended in term without subsequent solicit with the mutual consent of the contractor and the City of Pawtucket, where determined by the City of Pawtucket Purchasing Agent to be in the City of Pawtucket's best interest.

7. TERM AND RENEWAL

Where offers have been requested or contracts awarded for terms exceeding periods of twelve (12) months, it is mutually understood and agreed that the City of Pawtucket's commitment is limited to a base term not to exceed twelve (12) months, subject to renewal annually at the City of Pawtucket's sole option for successive terms as otherwise described, except where expressly specified to the contrary. Purchase orders appearing to commit to obligations of funding or terms of performance may be executed for administrative convenience, but are otherwise subject to this provision, and in such cases the City of Pawtucket's renewal shall be deemed to be automatic, conditional on the continued availability of appropriated funds for the purpose, except as written notice of the City of Pawtucket's intent not to renew is served.

8. DELIVERY/COMPLETION

Delivery must be made as ordered and/or projects completed in accordance with the proposal. If delivery qualifications do not appear on the bidder's proposal, it will be interpreted to mean that goods are in stock and that shipment will be made within seven (7) calendar days. If the project completion date is not specified in the proposal, the date shall be determined by the City of Pawtucket Purchasing Agent. The decision of the City of Pawtucket Purchasing Agent, as to reasonable compliance with the delivery terms, and date of completion shall be final. Burden of proof of delay in receipt of order shall rest with the contractor. No delivery charges shall be added to invoices except when authorized on the Purchase Order.

9. FOREIGN CORPORATIONS

In accordance with Title 7 Chapter 1.1 ("Business Corporations") of the General Laws of Rhode Island, no foreign corporation shall have the right to transact business in this state until it shall have procured a certificate of authority so to do from the Secretary of State.

10. PRICING

All pricing offered or extended to the City of Pawtucket is considered to be firm and fixed unless expressly provided for to the contrary. All prices shall be quoted F.O.B. Destination with freight costs included in the unit cost to be paid by the City of Pawtucket, except, where the Request or Contract permits, offers reflecting F.O.B. Shipping Point will be considered, and freight costs may then be prepaid and added to the invoice.

11. COLLUSION

Bidder or contractor warrants that he has not, directly or indirectly, entered into any agree participated in any collusion or otherwise taken any action in restraint of full competitive bidding. In special circumstances, an executed affidavit will be required as a part of the bid.

12. PROHIBITION AGAINST CONTINGENT FEES AND GRATUITIES

Bidder or contractor warrants that he has not paid, and agrees not to pay, any bonus, commission, fee, or gratuity to any employee or official of the City of Pawtucket for the purpose of obtaining any contract or award issued by the City of Pawtucket. Bidder or contractor further warrants that no commission or other payment has been or will be received from or paid to any third party contingent on the award of any contract by the City of Pawtucket, except as shall have been expressly communicated to the City of Pawtucket Purchasing Agent in writing prior to acceptance of the contract or award in question. Subsequent discovery by the City of Pawtucket of non-compliance with these provisions shall constitute sufficient cause for immediate termination of all outstanding contracts and suspension or debarment of the bidder(s) or contractor(s) involved.

13. AWARDS

Awards will be made with reasonable promptness and by written notice to the successful bidder (only); bids are considered to be irrevocable for a period of ninety (90) days following the bid opening unless expressly provided for to the contrary in the Request, and may not be withdrawn during this period without the express permission of the City of Pawtucket Purchasing Agent.

- a. Awards shall be made to the bidder(s) whose offer(s) constitutes the lowest responsive price offer (or lowest responsive price offer on an evaluated basis) for the item(s) in question or for the Request as a whole, at the option of the City of Pawtucket. The City of Pawtucket reserves the right to

determine those offers which are responsive to the Request, or which otherwise serve its best interests.

- b. The City of Pawtucket reserves the right, before making award, to initiate investigations as to whether or not the materials, equipment, supplies, qualifications or facilities offered by the bidder meet the requirements set forth in the proposal and specification, and are ample and sufficient to insure the proper performance of the contract in the event of award. If upon such examination it is found that the conditions of the proposal are not complied with or that articles or equipment proposed to be furnished do not meet the requirements called for, or that the qualifications or facilities are not satisfactory, the City of Pawtucket may reject such a bid. It is distinctly understood, however, that nothing in the foregoing shall mean or imply that it is obligatory upon the City of Pawtucket to make any examinations before awarding a contract; and it is further understood that if such examination is made, it in no way relieves the contractor from fulfilling all requirements and conditions of the contract.
- c. Qualified or conditional offers which impose limitations of the bidder's liability or modify the requirements of the bid, offers for alternate specifications, or which are made subject to different terms and conditions than those specified by the City of Pawtucket may, at the option of the City of Pawtucket, be
 - 1. rejected as being non-responsive, or
 - 2. set aside in favor of the City of Pawtucket's terms and conditions (with the consent of the bidder), or
 - 3. accepted, where the City of Pawtucket Purchasing Agent determines that such acceptance best serves the interests of the City of Pawtucket.Acceptance or rejection of alternate or counter-offers by the City of Pawtucket shall not constitute a precedent which shall be considered to be binding on successive solicitations or procurements.
- d. Bids submitted in pencil, or which do not bear an original signature, in ink, by an owner or authorized agent thereof, will not be accepted.
- e. Bids must be extended in the unit of measure specified in the Request. In the event of any discrepancy between unit prices and their extensions, the unit price will govern.
- f. The City of Pawtucket Purchasing Agent reserves the right to determine the responsibility of any bidder for a particular procurement.
- g. The City of Pawtucket Purchasing Agent reserves the right to reject any and all bids in whole or in part, to waive technical defects, irregularities, and omissions, and to give consideration to past performance of the offerors where, in his judgment the best interests of the City of Pawtucket will be served by so doing.
- h. The City of Pawtucket Purchasing Agent reserves the right to make awards by items, group of items or on the total low bid for all the items specified as indicated in the detailed specification, unless the bidder specifically indicates otherwise in his bid.
- i. Preference may be given to bids on products raised or manufactured in the City of Pawtucket or State of Rhode Island, other things being equal.
- j. The impact of discounted payment terms shall not be considered in evaluating responses to any Request.
- k. The City of Pawtucket Purchasing Agent reserves the right to act in the City of Pawtucket's best interests regarding awards caused by clerical errors by the City of Pawtucket Purchasing Office.

14. **SUSPENSION AND DEBARMENT**

The City of Pawtucket Purchasing Agent may suspend or debar any vendor or potential bidder, for good cause shown:

- a. A debarment or suspension against a part of a corporate entity constitutes debarment or suspension of all of its divisions and all other organizational elements, except where the action has been specifically limited in scope and application, and may include all known corporate affiliates of a contractor, when such offense or act occurred in connection with the affiliate's performance of duties for or on behalf of the contractor, or with the knowledge, approval, or acquiescence of the contractor or one or more of its principals or directors (or where the contractor otherwise participated in, knew of, or had reason to know of the acts).

- b. The fraudulent, criminal or other serious improper conduct of any officer, director, shareholder, partner, employee, or any other individual associated with a contractor may be imputed to the contractor when the conduct occurred in connection with the individual's performance of duties for or on behalf of the contractor, or with the contractor's knowledge, approval or acquiescence. The contractor's acceptance of benefits derived from the conduct shall be evidence of such knowledge, approval, or acquiescence.
 - c. A vendor or contractor who knowingly engages as a subcontractor for a contract awarded by the City of Pawtucket to a vendor or contractor then under a ruling of suspension or debarment by the City of Pawtucket shall be subject to disallowance of cost, annulment or termination of award, issuance of a stop work order, or debarment or suspension, as may be judged to be appropriate by the City of Pawtucket's Purchasing Agent.
15. **PUBLIC RECORDS**
Contractors and bidders are advised that certain documents, correspondence, and other submissions to the City of Pawtucket's Purchasing Office may be voluntarily made public by the City of Pawtucket absent specific notice that portions of such submittals may contain confidential or proprietary information, such that public access to those items should be withheld.
16. **PRODUCT EVALUATION**
In all specifications, the words "or equal" are understood after each article when manufacturer's name or catalog are referenced. If bidding on items other than those specified, the bidder must, in every instance, give the trade designation of the article, manufacturer's name and detailed specifications of the item the bidder proposes to furnish; otherwise, the bid will be construed as submitted on the identical commodity described in the detailed specifications. The City of Pawtucket's Purchasing Agent reserves the right to determine whether or not the item submitted is the approved equal the detailed specifications.
- a. Any objections to specifications must be filed by a bidder, in writing, with the City of Pawtucket's Purchasing Agent at least 96 hours before the time of bid opening to enable the City of Pawtucket's Purchasing Office to properly investigate the objections.
 - b. All standards are minimum standards except as otherwise provided for in the Request or Contract.
 - c. Samples must be submitted to the City of Pawtucket's Purchasing Office in accordance with the terms of the proposals and detailed specifications. Samples must be furnished free of charge and must be accompanied by descriptive memorandum invoices indicating whether or not the bidder desires their return and specifying the address to which they are to be returned (at the bidder's risk and expense), provided they have not been used or made useless by tests; and absent instructions, the samples shall be considered to be abandoned. Award samples may be held for comparison with deliveries.
 - d. All samples submitted are subject to test by any laboratory the City of Pawtucket's Purchasing Agent may designate.
17. **PRODUCT ACCEPTANCE**
All merchandise offered or otherwise provided shall be new, of prime manufacture, and of first quality unless otherwise specified by the City of Pawtucket. The City of Pawtucket reserves the right to reject all nonconforming goods, and to cause their return for credit or replacement, at the City of Pawtucket's option. Contract deliverables specified for procurements of services shall be construed to be work products, and subject to the provisions of this section.
- a. Failure by the City of Pawtucket to discover latent defect(s) or concealed damage or non-conformance shall not foreclose the City of Pawtucket's right to subsequently reject the goods in question.
 - b. Formal or informal acceptance by the City of Pawtucket of non-conforming goods shall not constitute a precedent for successive receipts or procurements.
 - c. Where the contractor fails to promptly cure the defect or replace the goods, the City of Pawtucket reserves the right to cancel the Purchase Order, contract with a different contractor, and to invoice the original contractor for any differential in price over the original contract price.
 - d. When materials, equipment or supplies are rejected, the same must be removed by the contractor from the premises of the City of Pawtucket within forty-eight (48) hours of notification. Rejected

items left longer than two days will be regarded as abandoned and the City of Pawtucket shall have the right to dispose of them as its own property.

18. **PRODUCT WARRANTIES**

All product or service warranties normally offered by the contractor or bidder shall accrue to the City of Pawtucket's benefit, in addition to any special requirements which may be imposed by the City of Pawtucket. Every unit delivered must be guaranteed against faulty material and workmanship for a period of one year unless otherwise specified, and the City of Pawtucket may, in the event of failure, order its replacement, repair, or return for full credit, at its sole option.

19. **PAYMENT**

Unless otherwise provided for by the Request or Contract, payment shall not be made until delivery has been made, or services performed, in full, and accepted. Payment shall not be due prior to thirty (30) working days following the latest of completion, acceptance, or the rendering of a properly submitted invoice.

- a. Payment terms other than the foregoing may be rejected as being nonresponsive.
- b. No partial shipments, or partial completion will be accepted, unless provided for by the Request or Contract.
- c. Where a question of quality is involved, or failure to complete a project by the specified due date, payment in whole or part against which to charge back any adjustment required, shall be withheld at the direction of the City of Pawtucket Purchasing Agent. In the event a cash discount is stipulated, the withholding of payments, as herein described, will not deprive the City of Pawtucket from taking such discount.
- d. Payments for used portion of inferior delivery or late delivery will be made by the City of Pawtucket on an adjusted price basis.
- e. Payments on contracts under architectural or engineering supervision must be accompanied by a Certificate of Payment and Statement of Account signed by the architect or engineer and submitted to the City of Pawtucket Purchasing Office for approval.

20. **THIRD PARTY PAYMENTS**

The City of Pawtucket recognizes no assigned or collateral rights to any purchase agreement except as may be expressly provided for in the bid or contract documents, and will not accede to any request for third party or joint payment(s), except as provided for in specific orders by a court of competent jurisdiction, or by express written permission of the City of Pawtucket's Purchasing Agent. Where an offer is contingent upon such payment(s), the offeror is obligated to serve affirmative notice in his bid submission.

21. **SET-OFF AGAINST PAYMENTS**

Payments due the contractor may be subject to reduction equal to the amount of unpaid and delinquent state taxes (or other just debt owed to the State), except where notice of delinquency has not been served or while the matter is pending in hearing or from any appeal therefrom.

22. **CLAIMS**

Any claim against a contractor may be deducted by the City of Pawtucket from any money due him in the same or other transactions. If no deduction is made in such fashion, the contractor shall pay the City of Pawtucket the amount of such claim on demand. Submission of a voucher and payment, thereof, by the City of Pawtucket shall not preclude the City of Pawtucket's Purchasing Agent from demanding a price adjustment in any case when the commodity delivered is later found to deviate from the specifications and proposal.

- a. The City of Pawtucket's Purchasing Agent may assess dollar damages against a vendor or contractor determined to be non-performing or otherwise in default of their contractual obligations equal to the cost of remedy incurred by the City of Pawtucket, and make payment of such damages a condition for consideration for any subsequent award. Failure by the vendor or contractor to pay such damages shall constitute just cause for disqualification and rejection, suspension, or debarment.

23. **CERTIFICATION OF FUNDING**

The Director of Finance shall provide certification as to the availability of funds to support the procurement for the current fiscal year ending June 30th only. Where delivery or service requirements extend beyond the end of the current fiscal year, such extensions are subject to both the availability of appropriated funds and a determination of continued need.

24. **UNUSED BALANCES**

Unless otherwise specified, all unused Blanket Order quantities and/or unexpended funds shall be automatically canceled on the expiration of the specified term. Similarly, for orders encompassing more than one fiscal year, unexpended balances of funding allotted for an individual fiscal year may be liquidated at the close of that fiscal year, at the City of Pawtucket's sole option.

25. **MINORITY BUSINESS ENTERPRISES**

Pursuant to the provisions of Title 37 Chapter 14.1 of the General Laws, the City of Pawtucket reserves the right to apply additional consideration to offers, and to direct awards to bidders other than the responsive bid representing the lowest price where:

- a. the offer is fully responsive to the terms and conditions of the Request, and
- b. the price offer is determined to be within a competitive range (not to exceed 5% higher than the lowest responsive price offer) for the product or service, and
- c. the firm making the offer has been certified by the R.I. Department of Economic Development to be a small business concern meeting the criteria established to be considered a Minority Business Enterprise.

26. **PREVAILING WAGE REQUIREMENT**

In accordance with Title 37 Chapter 13 of the General Laws of Rhode Island, payment of the general prevailing rate of per diem wages and the general prevailing rate for regular, overtime and other working conditions existing in the locality for each craft, mechanic, teamster, or type of workman needed to execute this work is a requirement for both contractors and subcontractors for all public works.

27. **EQUAL OPPORTUNITY COMPLIANCE, HANDICAPPED ACCESS AND AFFIRMATIVE ACTION**

Contractors of the City of Pawtucket are required to demonstrate the same commitment to equal opportunity as prevails under federal contracts controlled by Federal Executive Orders 11246, 11625, 11375 and 11830, and Title 28 Chapter 5.1 of the General Laws of Rhode Island.

Affirmative action plans shall be submitted by the contractor for review by the State Equal Opportunity Office. A contractor's failure to abide by the rules, regulations, contract terms and compliance reporting provisions as established shall be grounds for forfeiture and penalties as shall be established, including but not limited to suspension.

28. **DRUG-FREE WORKPLACE REQUIREMENT**

Contractors who do business with the City of Pawtucket and their employees shall abide by the State's drug-free workplace policy and the contractor shall so attest by signing a certificate of compliance.

29. **TAXES**

The City of Pawtucket is exempt from payment of excise, transportation and sales tax imposed by the Federal or State Government. These taxes should not be included in the proposal price. Exemption Certificates will be furnished upon request.

30. **INSURANCE**

All construction contractors, independent tradesmen, or firms providing any type of maintenance, repair, or other type of service to be performed on City of Pawtucket premises, buildings, or grounds are required to purchase and maintain coverage with a company or companies licensed to do business in the state as follows:

- a. Comprehensive General Liability Insurance
 - 1) Bodily Injury \$500,000 each occurrence/ \$1,000,000 annual aggregate
 - 2) Property Damage \$500,000 each occurrence /\$500,000 annual aggregate
- Independent Contractors

- Contractual - including construction hold harmless and other types of contracts or agreements in effect for insured operations
- Completed Operations
- Personal Injury (with employee exclusion deleted)
- b. Automobile Liability Insurance
 - Combined Single Limit not less than \$150,000 each occurrence
 - Bodily Injury
 - Property Damage, and in addition non-owned and/or hired vehicles and equipment
- c. Workers' Compensation Insurance
 - As required by the General Laws of Rhode Island.

The City of Pawtucket's Purchasing Agent reserves the right to consider and accept alternate forms and plans of insurance or to require additional or more extensive coverage for any individual requirement. Successful bidders shall provide certificates of coverage, reflecting the City of Pawtucket as an additional insured, to the City of Pawtucket Purchasing Office, forty-eight (48) hours prior to the commencement of work, as a condition of award. Failure to comply with this provision shall result in rejection of the offeror's bid.

31. BID SURETY

When requested, a bidder must furnish a Bid Bond or Certified Check for 5% of his bid, or for the stated amount shown in the solicitation. Bid Bonds must be executed by a reliable Surety Company authorized to do business in the State of Rhode Island. Failure to provide Bid Surety with bid may be cause for rejection of bid. The Bid Surety of any three bidders in contention will be held until an award has been made according to the specifications of each proposal. All others will be returned by mail within 48 hours following the bid opening. Upon award of a contract, the remaining sureties will be returned by mail unless instructed to do otherwise.

32. PERFORMANCE AND LABOR AND PAYMENT BONDS

A performance bond and labor and payment bond of up to 100% of an award may be required by the City of Pawtucket's Purchasing Agent. Bonds must meet the following requirements:

- a. Corporation: The Bond must be signed by an official of the corporation above his/her official title and the corporate seal must be affixed over his/her signature.
- b. Firm or Partnership: The Bond must be signed by all of the partners and must indicate that they are "Doing Business As (name of firm)."
- c. Individual: The Bond must be signed by the individual owning the business and indicate "Owner."
- d. The Surety Company executing the Bond must be licensed to do business in the State of Rhode Island or Bond must be countersigned by a company so licensed.
- e. The Bond must be signed by an official of the Surety Company and the corporate seal must be affixed over his signature.
- f. Signatures of two witnesses for both the principal and the Surety must appear on the Bond.
- g. A Power of Attorney for the official signing of the Bond for the Surety Company must be submitted with the Bond.

33. SUSPENSION, DEFAULT AND TERMINATION

- a. Suspension of a Contract by the City of Pawtucket

The City of Pawtucket reserves the right at any time and for any reason to suspend all or part of this contract, for a reasonable period, not to exceed sixty days, unless the parties agree to a longer period. The City of Pawtucket shall provide the contractor with written notice of the suspension order signed by the Purchasing Agent or his or her designee, which shall set forth the date upon which the suspension shall take effect, the date of its expiration, and all applicable instructions. Upon receipt of said order, the contractor shall immediately comply with the order and suspend all work under this contract as specified in the order. The contractor shall take all reasonable steps to mitigate costs and adverse impact to the work specified in the contract during the suspension period. Before the order expires, the City of Pawtucket shall either:

- 1. cancel the suspension order;
- 2. extend the suspension order for a specified time period not to exceed thirty (30) days; or

3. terminate the contract as provided herein.

The contractor shall resume performance once a suspension order issued under this section is canceled or expires. If as a result of the suspension of performance, there is a financial or schedule impact upon the contract, an appropriate adjustment may be made by, or with the approval of, the City of Pawtucket's Purchasing Agent. Any adjustment shall be set forth in writing. After a suspension order has been canceled or expires, the contractor shall provide any request for adjustment to the City of Pawtucket's Purchasing Agent within thirty (30) days after resuming work performance.

b. Termination of a Contract by the City of Pawtucket

1. Termination for Default or Nonperformance

If, for any reason, the contractor breaches the contract by failing to satisfactorily fulfill or perform any obligations, promises, terms, or conditions, and having been given reasonable notice of and opportunity to cure such default, fails to take satisfactory corrective action within the time specified by the City of Pawtucket, the City of Pawtucket may terminate the contract, in whole or in part, the termination of all outstanding contracts or sub-contracts held by the contractor, and the suspension or debarment of the contractor from future procurements by giving written notice to the contractor specifying the date for termination. The City of Pawtucket shall endeavor to provide such notice at least seven (7) calendar days before the effective date of the termination.

A contractor who fails to commence within the time specified or complete an award made for repairs, alterations, construction, or any other service will be considered in default of contract. If contractor consistently fails to deliver quantities or otherwise perform as specified, the City of Pawtucket's Purchasing Agent reserves the right to terminate the contract and contract for completion of the work with another contractor and seek recourse from the defaulting contractor or his surety. In the event of a termination for default or nonperformance, in whole or in part, the City of Pawtucket may procure similar goods or services in a manner and upon terms it deems appropriate, and the contractor shall be liable for the excess costs incurred by the City of Pawtucket as a result of the contractor's default. The contractor, or its surety, agrees to promptly reimburse the City of Pawtucket for the excess costs, but shall have no claim to the difference should the replacement cost be less.

2. Termination Without Cause

The City of Pawtucket may terminate the contract in whole or in part without cause at any time by giving written notice to the contractor of such termination at least thirty (30) days before the effective date of such termination. The notice shall specify the part(s) of the contract being terminated and the effective termination date.

Within thirty (30) days of the effective date of the termination of the contract the contractor shall compile and submit to the City of Pawtucket an accounting of the work performed up to the date of termination. The City of Pawtucket may consider the following claims in determining reasonable compensation owed to the contractor for work performed up to the date of termination:

- a. contract prices for goods or services accepted under the contract;
- b. costs incurred in preparing to perform and performing the terminated portion of the contract; or
- c. any other reasonable costs incurred by the contractor as a result of the termination.

The total sum to be paid to the contractor shall not exceed the total contract price, less any payments previously made to the contractor, the proceeds from any sales of goods or manufacturing materials, and the contract price for work not terminated.

3. Contractor's Obligations in the Event of Termination

If the contract is terminated for any reason, or expires pursuant to its terms, the contractor shall transfer and deliver to the City of Pawtucket in the manner and to the extent directed by the City of Pawtucket:

- a. all finished or unfinished material prepared by the contractor; and
- b. all material, if any, provided to the contractor by the City of Pawtucket.

For the purposes of the contract, "material" shall include, but is not limited to, goods, supplies, parts, tools, machinery, equipment, furniture, fixtures, information, data, reports, summaries, tables, maps, charts, photographs, studies, recommendations, files, audiotapes, videotapes, records, keys, security badges, and documents.

If the contract is terminated for cause, the contractor shall not be relieved of liability to the City of Pawtucket for damages sustained because of any breach by the contractor. In such event, the City of Pawtucket may retain any amounts which may be due and owing to the contractor until such time as the exact amount of damages due the City of Pawtucket from the contractor has been determined by the City of Pawtucket Purchasing Agent. The City of Pawtucket may also set off any damages so determined against the amounts retained.

Upon termination of the contract, the contractor shall stop performance on the date specified, terminate any outstanding orders and subcontracts applicable to the terminated portion of the contract, and shall incur no further commitments or obligations in connection with the terminated performance. The contractor shall settle all liabilities and claims arising out of the termination of subcontracts and order generating from the terminated performance. The City of Pawtucket may direct the contractor to assign the contractor's right, title and interest under terminated orders or subcontracts to the City of Pawtucket or a third party.

Terminations of Purchase Order Contracts or Master Pricing Agreements shall require the signature of the City of Pawtucket Purchasing Agent or his designee. Notice of termination by either party shall be submitted in writing to the other party in accordance with the termination clause of the contract, or where no specific termination clause is included, written notice shall be provided no later than thirty (30) days before the expiration of the contract.

34. **INDEMNITY**

The contractor guarantees:

- a. To save the City of Pawtucket, its agents and employees, harmless from any liability imposed upon the City of Pawtucket arising from the negligence, either active or passive, of the contractor, as well as for the use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention, article or appliance furnished or used in the performance of the contract of which the contractor is not the patentee, assignee or licensee.
- b. To pay for all permits, licenses and fees and give all notices and comply with all laws, ordinances, rules and regulations of the City of Pawtucket and of the State of Rhode Island.
- c. That the equipment offered is standard new equipment, latest model of regular stock product with all parts regularly used with the type of equipment offered; also, that no attachment or part has been substituted or applied contrary to manufacturer's recommendations and standard practice.

35. **CONTRACTOR'S OBLIGATIONS**

In addition to the specific requirements of the contract, construction and building repair contractors bear the following standard responsibilities:

- a. To furnish adequate protection from damage for all work and to repair damages of any kind, for which he or his workmen are responsible, to the building or equipment, to his own work, or to the work of other contractors;
- b. The contractor, its subcontractor(s) and their employees and/or agents, shall protect and preserve property in the contractor or subcontractor's possessions in which the City of Pawtucket has an interest, and any and all materials provided to the contractor or subcontractor by the City of Pawtucket;

- c. To clear and remove all debris and rubbish resulting from his work from time to time, as directed or required, a completion of the work leave the premises in a neat unobstructed condition, broom clean, and in satisfactory order and repair;
- d. To store equipment, supplies, and material at the site only upon approval by the City of Pawtucket, and at his own risk;
- e. To perform all work so as to cause the least inconvenience to the City of Pawtucket, and with proper consideration for the rights of other contractors and workmen;
- f. To acquaint them with conditions to be found at the site, and to assume responsibility for the appropriate dispatching of equipment and supervision of his employees during the conduct of the work;
- g. To ensure that his employees are instructed with respect to special regulations, policies, and procedures in effect for any City of Pawtucket facility or site, and that they comply with such rules, including but not limited to security policies or practices and/or criminal background checks for any employees and/or subcontractors;
- h. The contractor shall ensure that its employees or agents are experienced and fully qualified to engage in the activities and services required under the contract;
- i. The contractor shall ensure that at all times while services are being performed under this contract at least one of its employees or agents on the premises has a good command of the English language and can effectively communicate with the City of Pawtucket and its staff;
- j. The contractor and contractor's employees or agents shall comply with all applicable licensing and operating requirements required by federal or state law and shall meet accreditation and other generally accepted standards of quality in the applicable field of activity;
- k. The contractor shall secure and retain all employee-related insurance coverage for its employees and agents as required by law; and
- l. The contractor, subcontractor, and his or her employees and agents shall not disclose any confidential information of the City of Pawtucket to a third party. Confidential information means:
 - (1) any information of a sensitive or proprietary nature, whether or not specially identified as confidential or proprietary; or
 - (2) any information about the City of Pawtucket gained during the performance of a contract that is not already lawfully in the public domain.

36. **FORCE MAJEURE**

All orders shall be filled by the contractor with reasonable promptness, but the contractor shall not be held responsible for any losses resulting if the fulfillment of the terms of the contract shall be delayed or prevented by wars, acts of public enemies, strikes, fires, floods, acts of God, or for any other acts not within the control of the contractor and which by the exercise of reasonable diligence, the contractor is unable to prevent.

SECTION 01 22 00 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Requirements:
 - 1. Section 01 26 00 "Contract Modification Procedures" for procedures for submitting and handling Change Orders.

1.3 DEFINITIONS

- A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF UNIT PRICES

- A. Unit Price No. 1 - Concrete Repair.
1. Perform concrete repair per details 1&2/A-504.
 2. Unit of Measurement: Square foot of repair area
 3. Base Bid Allowance to include: **100 square feet.**
- B. Unit Price No. 2: Concrete Crack Repair.
1. Perform concrete crack repair per detail 3/A-504.
 2. Unit of measurement: Linear foot of repair area.
 3. Base Bid Allowance to include: **60 linear feet.**
- C. Unit Price No. 3: Stone Crack Repair.
1. Perform stone crack repair per detail 4/A-504.
 2. Unit of Measurement: Linear foot of repair area.
 3. Base Bid Allowance to Include: **120 linear feet.**
- D. Unit Price No. 4: Rake out deteriorated existing brick masonry mortar joints and replace with new mortar to match the adjacent existing to remain mortar color and profile.
1. Unit of Measurement: Square foot of brick masonry.
 2. Base Bid Allowance to include: **100 square feet.**
- E. Unit Price No. 5: Remove damaged existing brick masonry unit and install new brick unit and mortar to match existing.
1. Unit of Measurement: Brick masonry unit.
 2. Base Bid Allowance to include: **20 units.**
- F. Unit Price No. 6: Remove and replace wood trim.
1. Replace areas of rotted wood trim. Paint to match existing.
 2. Unit of Measurement: Board unit of wood trim at 1" thick by 6" wide by 10' long.
 3. Base Bid Allowance to include: **5 boards.**
- G. Unit Price No. 7: Replace Existing Backer Rod and Sealant
1. Replace existing backer rod and sealant to match existing.
 2. Unit of Measurement: Linear foot of joint.
 3. Base Bid Allowance to include: **120 linear feet.**
- H. Unit Price No. 8: Repair damaged plaster walls and ceilings (beyond that required for window reinstallation as detailed).
1. Remove damaged plaster back to sound framing. **Install new steel mesh and plaster to match existing.** Feather repair into adjacent areas to remain.
 2. Unit of Measurement: Per square foot of surface repaired.
 3. Base Bid Allowance to include: **80 square feet.**

- I. Unit Price No. 9: Surface Prep and Re-painting (beyond that required for window reinstallation as detailed).
 - 1. Prep and re-paint areas of repaired plaster walls and ceilings.
 - 2. Unit of Measurement: Per square foot of surface repaired.
 - 3. Base Bid Allowance to include: **80 square feet.**

- J. Unit Price No. 10: Remove and reinstall existing outlet and up to 20' of wiring and conduit back to a new junction box.
 - 1. Unit of Measurement: Per Outlet.
 - 2. Base Bid Allowance to include: **10**

- K. Unit Price No. 11: Replace existing damaged laminate sills with new Corian sills.
 - 1. **Unit of Measurement: Square Foot of sill.**
 - 2. **Base Bid Allowance to include: 800 square feet.**

END OF SECTION 01 22 00



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CLIENT:
**PAWTUCKET
SCHOOL
DEPARTMENT**

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DATE	12-12-22	BID SET
MARK	DATE	DESCRIPTION
ISSUE:		

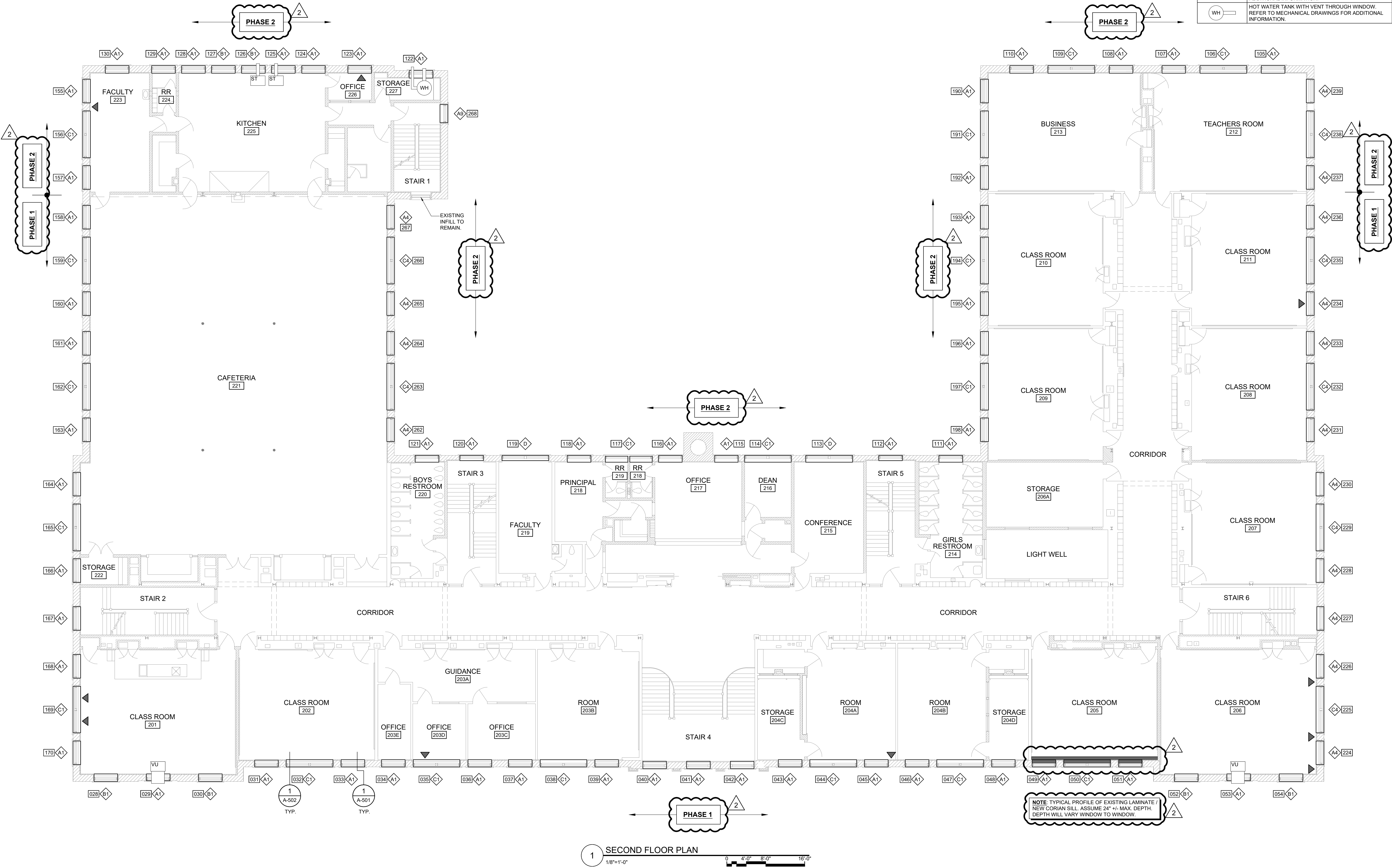
PROJECT NO.: 22081
DRAWN BY: AC
CHECKED BY: SAW/JSG
DRAWING SCALE: AS NOTED

SHEET TITLE:
**SECOND
FLOOR
PLAN**

SHEET:
A-102

DO NOT SCALE DRAWING

SYMBOL LEGEND	
	APPROXIMATE LOCATION OF EXISTING WATER DAMAGE AT INTERIOR FINISHES. INCLUDE REPAIR OF 4 S.F. OF PLASTER/GYPSUM BOARD AT EACH LOCATION.
	VENTILATION UNIT WITH LOUVER THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	DRYER UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	NEW KILN UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	KITCHEN EQUIPMENT UNIT WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
	HOT WATER TANK WITH VENT THROUGH WINDOW. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.



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

0 4'-0" 8'-0" 16'-0"

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MARK	DATE	DESCRIPTION
ISSUE:		

PROJECT NO.: 22081

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DRAWING SCALE: AS NOTED

SHEET TITLE:

THIRD
FLOOR
PLAN

SHEET:

A-103

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NOTE: TYPICAL PROFILE OF EXISTING LAMINATE / NEW CORIAN SILL. ASSUME 24" +/- MAX. DEPTH. DEPTH WILL VARY WINDOW TO WINDOW.

PROJECT:
**LYMAN B. GOFF
MIDDLE SCHOOL
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CLIENT:
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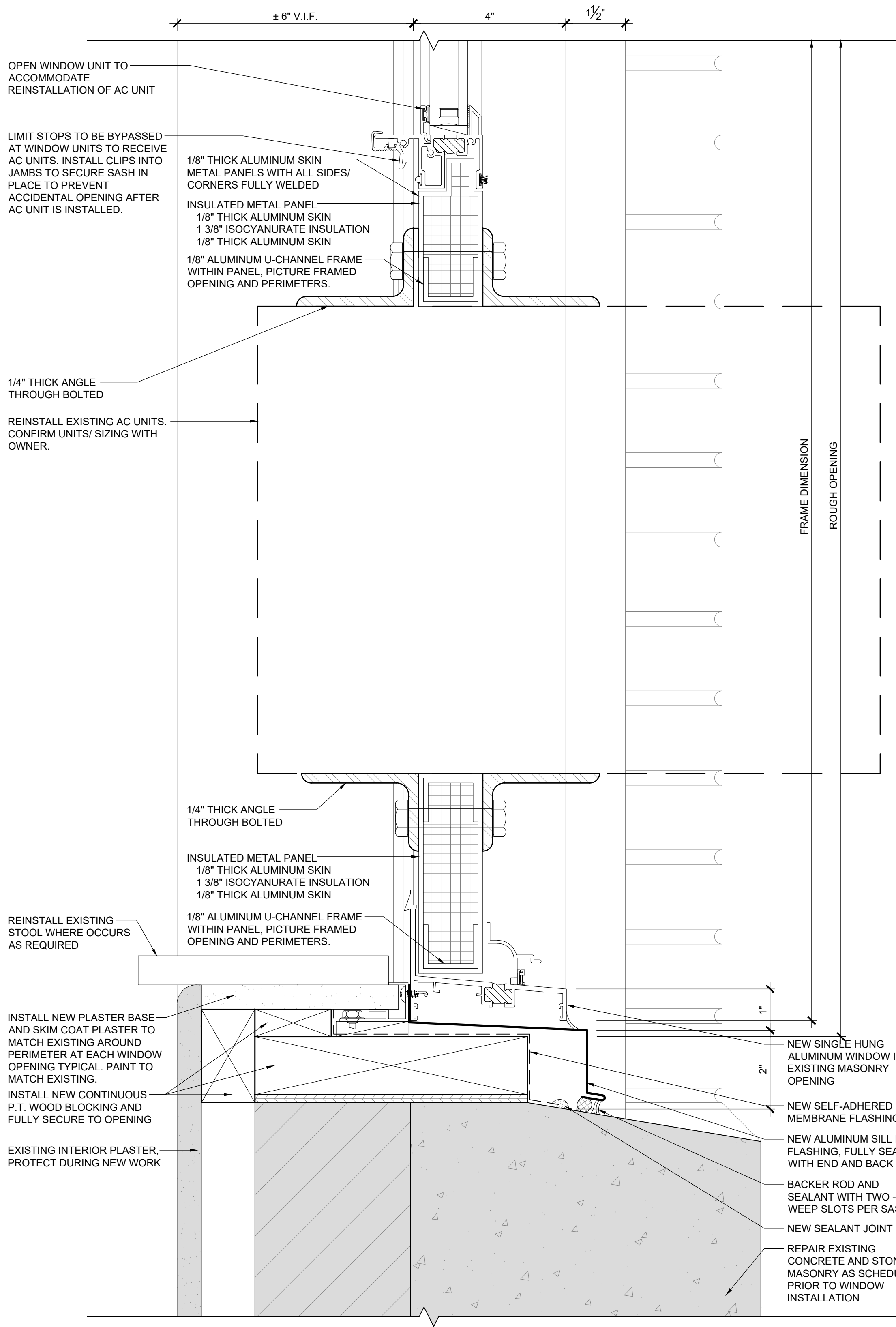
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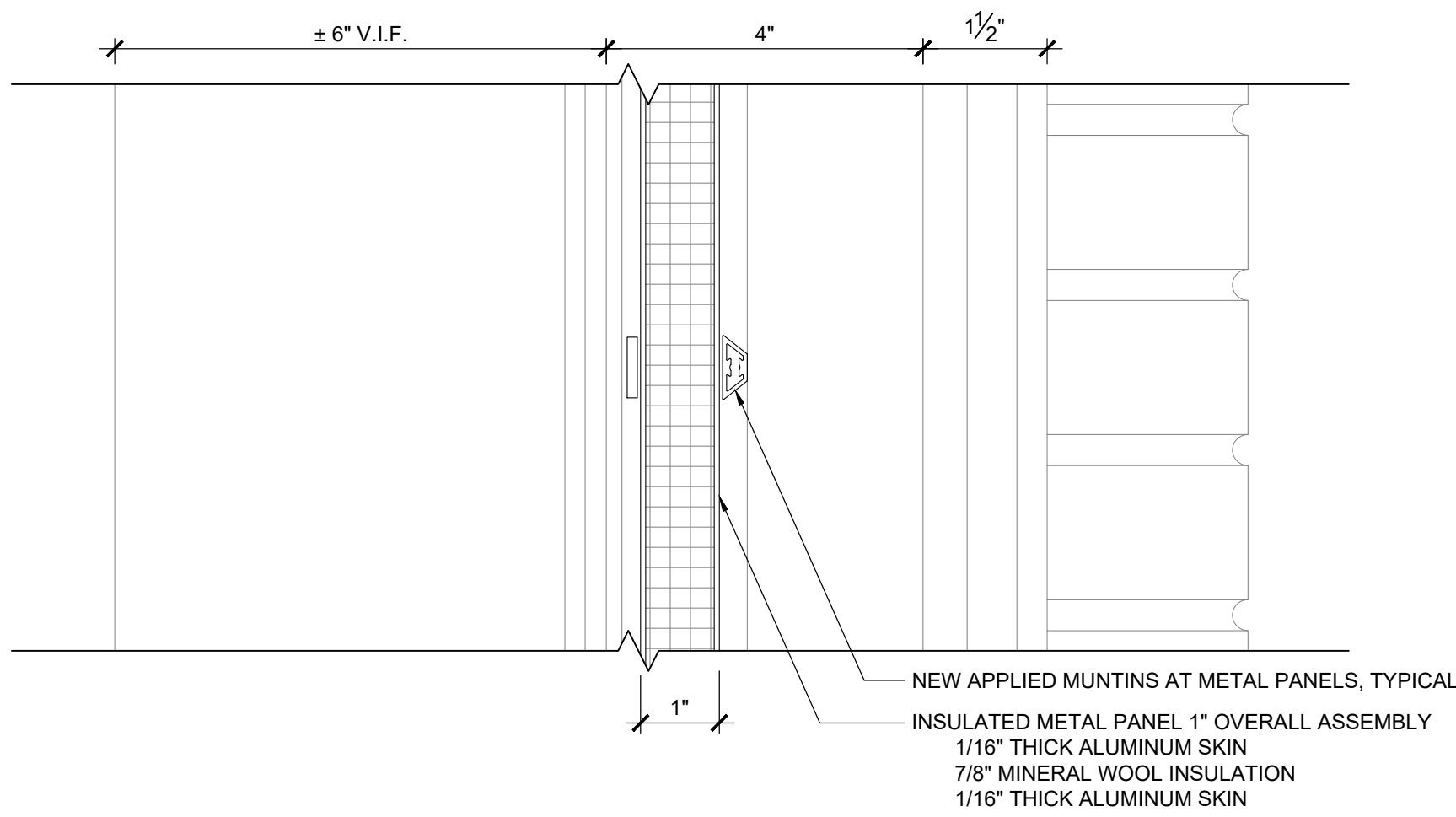
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DRAWN BY: LAP/JAC
CHECKED BY: SAW/JSG
DRAWING SCALE: AS NOTED

SHEET TITLE:
**NEW
SINGLE HUNG
WINDOW DETAILS**

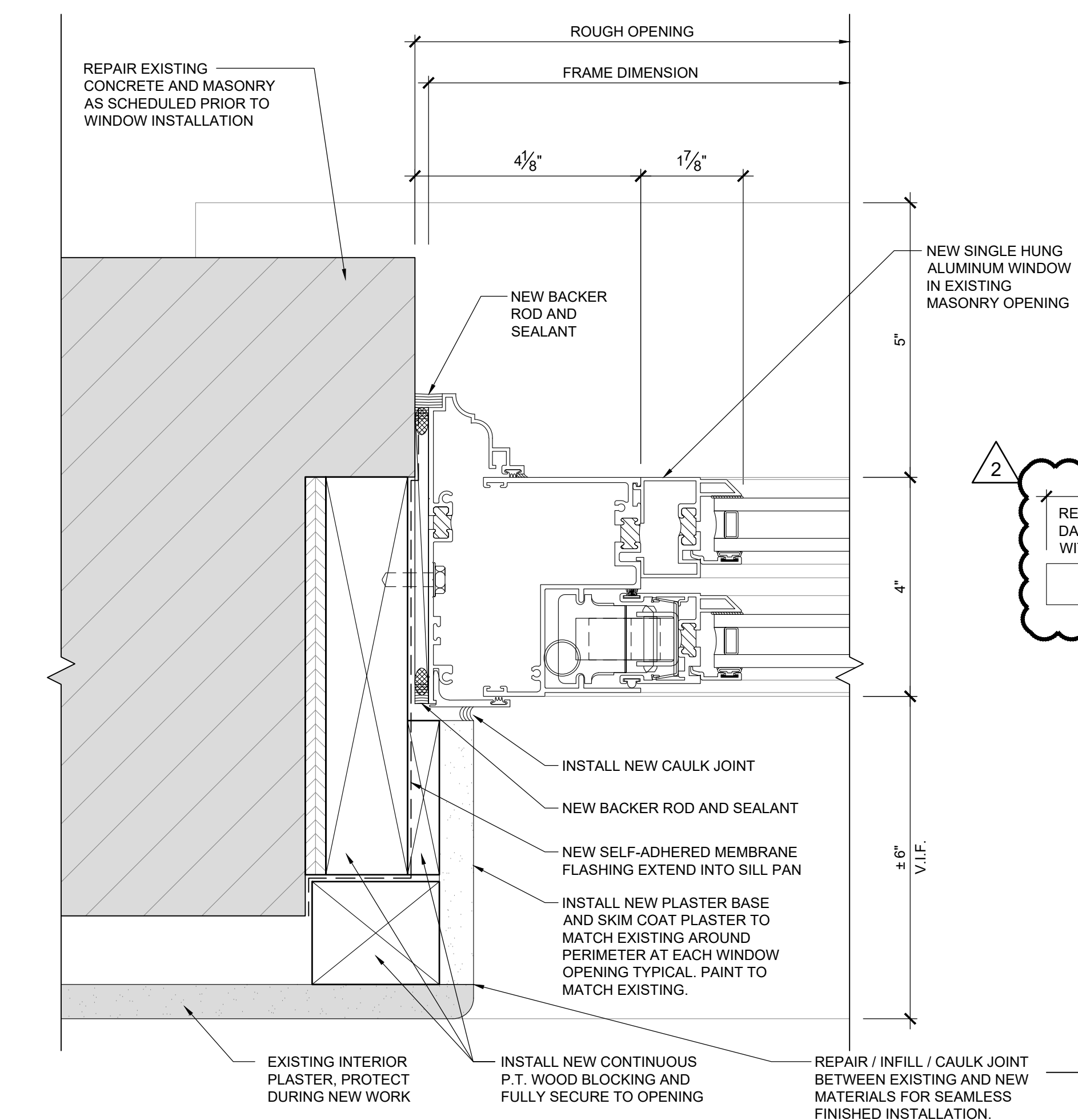
SHEET:
A-501
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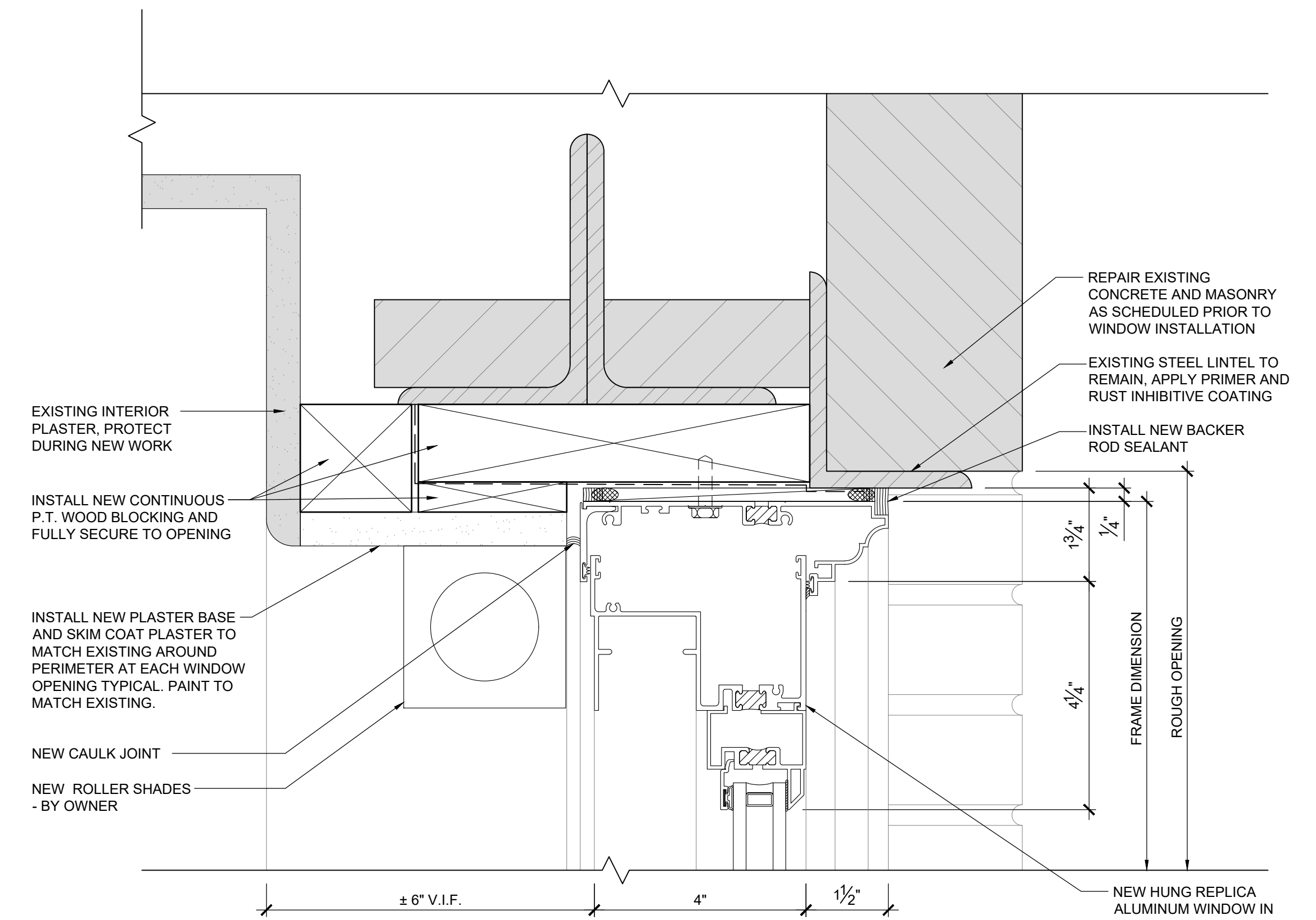
6 NEW ALUMINUM SINGLE HUNG WINDOW - SILL DETAIL AT AC UNIT
6" = 1'-0"



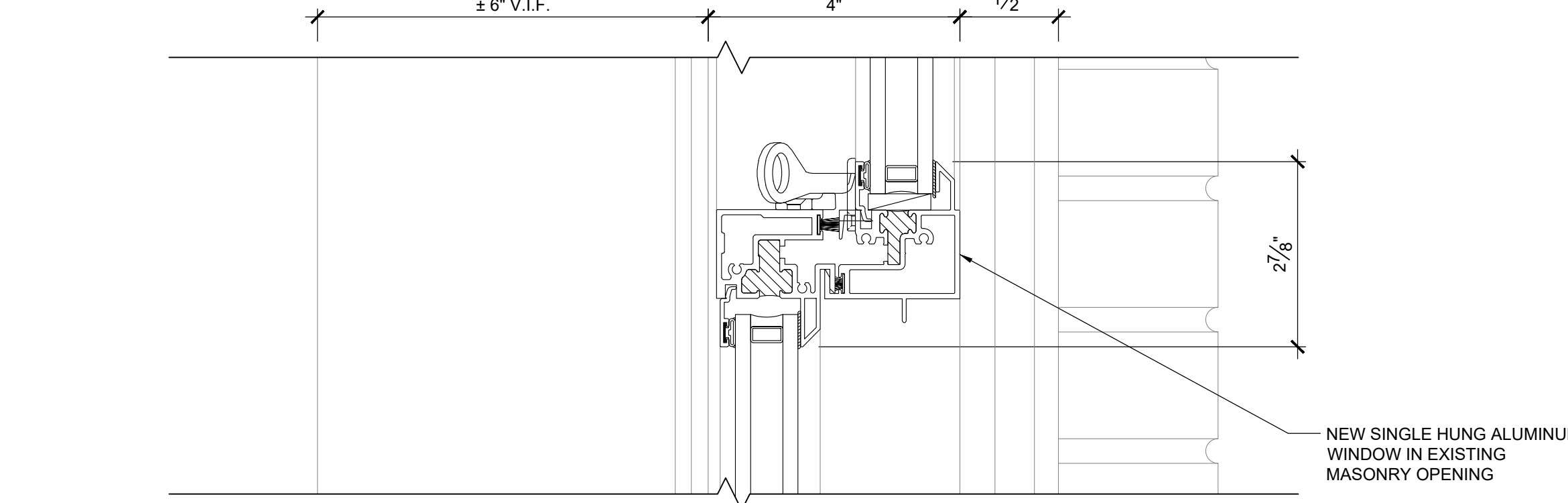
5 NEW INSULATED METAL PANEL AT WINDOW SASH DETAIL
6" = 1'-0"



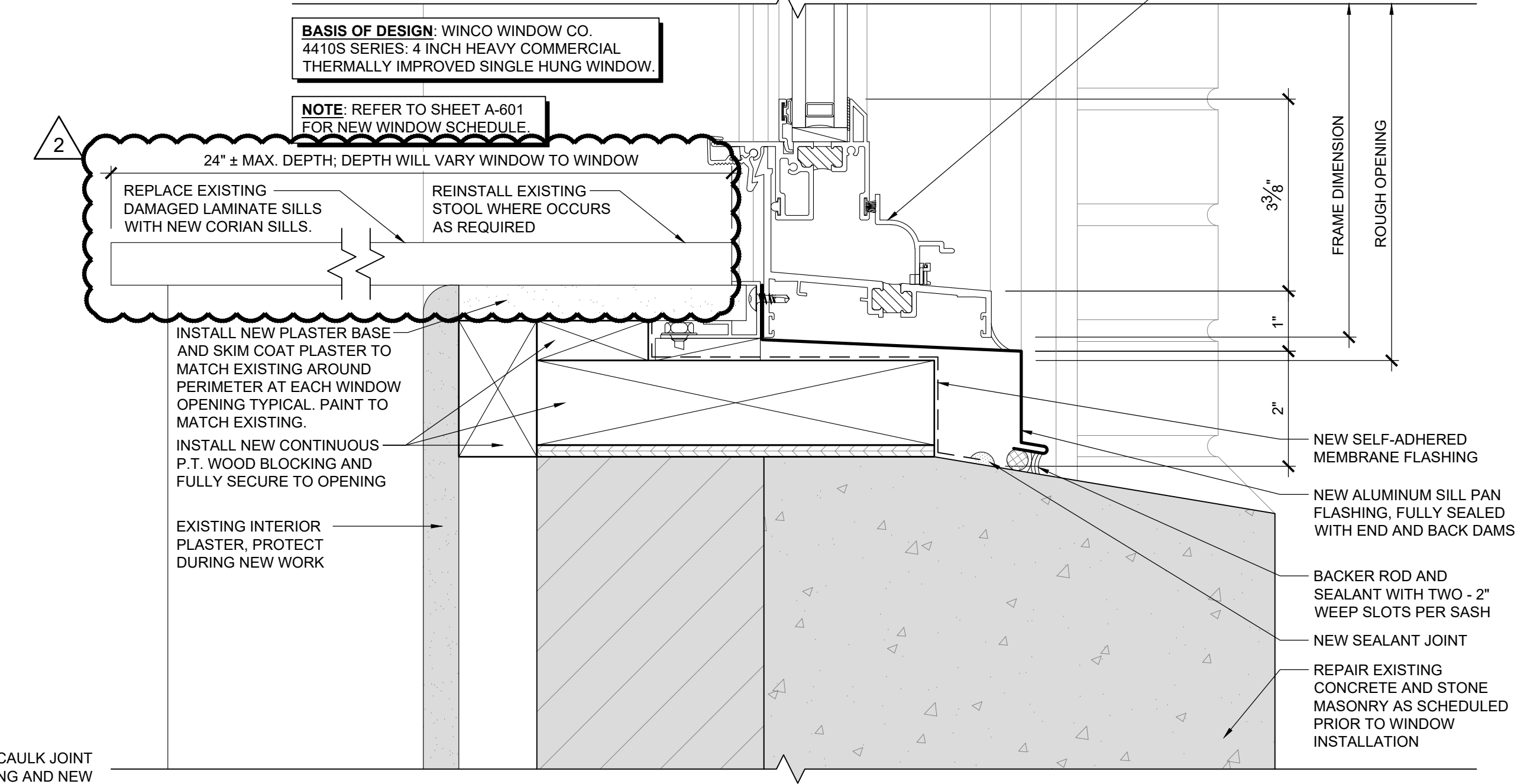
4 NEW ALUMINUM SINGLE HUNG WINDOW - JAMB DETAIL
6" = 1'-0"



3 NEW ALUMINUM SINGLE HUNG WINDOW - HEAD DETAIL
6" = 1'-0"



2 NEW ALUMINUM SINGLE HUNG WINDOW - MEETING RAIL DETAIL
6" = 1'-0"

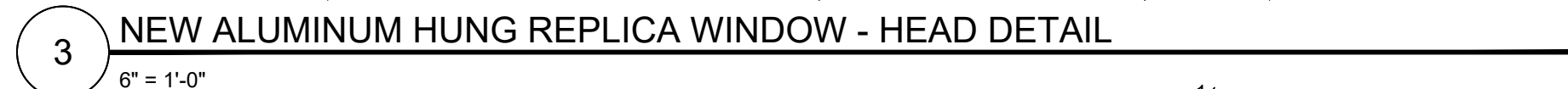


1 NEW ALUMINUM SINGLE HUNG WINDOW - SILL DETAIL
6" = 1'-0"

PROJECT:

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