STATE OF NEW HAMPSHIRE
DEPARTMENT OF MILITARY AFFAIRS AND VETERANS SERVICES

BUSINESS ADMINISTRATION
STATE MILITARY RESERVATION
4 PEMBROKE ROAD
CONCORD, NEW HAMPSHIRE 03301-5652

David J. Mikolaities, Major General
The Adjutant General

Nicole Desilets-Bixler
Deputy Adjutant General

Phone: 603-225-1360
TDD Access: 1-800-735-2964

September 15, 2026

Her Excellency Governor Kelly A. Ayotte
and the Honorable Executive Council
State House
Concord, New Hampshire 03301

REQUESTED ACTION

1. Authorize the Department of Military Affairs and Veterans Services to enter into a contract with Triple Construction (VC#395282), Merrimack, New Hampshire, in the amount of $143,754.00 for the New Hampshire Army National Guard Lebanon Readiness Center Door Replacement Project in Lebanon, New Hampshire upon Governor and Executive Council approval through February 28, 2027. **100% Federal Funds.**

2. Further, authorize a contingency in the amount of $15,000.00 for unanticipated expenses bringing the contract total to $158,754.00 effective upon Governor and Council approval through February 28, 2027. **100% Federal Funds.**

Funds are available in the following account for Fiscal Year 2027, with the authority to adjust encumbrances between fiscal years within the price limitation through the Budget Office, if needed and justified.

02-12-12-120010-22450000, Army Guard Facilities:

	FY 2027
103-500736-Contract for Operational Services	$158,754.00

EXPLANATION

The project will strengthen the facility's Anti-Terrorism/Force Protection (ATFP) posture by installing forced-entry-resistant assemblies and robust, ATFP-compliant hardware. The new assemblies will also provide improved thermal performance, weather resistance, and sealing to preserve the integrity of the building envelope. Collectively, these upgrades will enhance physical security, reduce energy loss and weather-related deterioration, and improve the facility's long-term reliability and operational readiness.

The Department of Military Affairs and Veteran Services solicited for these construction services by placing a Request for Bid (RFB) on the State of New Hampshire Bureau of Purchase and Property website on July 16, 2026. Four (4) vendors submitted qualified bids. Triple Construction was the lowest cost and were awarded this contract contingent upon Governor and Council approval.

Funds to support the required Army National Guard Facilities Renovation are provided by the Federal Government and administered under an existing Federal-State Agreement. Under the Agreement, the State of New Hampshire - Department of Military Affairs and Veterans Services provides these services and the Federal Government reimburses the State for the costs related to the services at the rate of 100%. In the event that Federal Funds are not available for this contract, General Funds will not be used.

The Department of Military Affairs and Veterans Services has determined that the vendor is in good standing with the Secretary of State's Office, has secured the required levels of insurance, and has provided evidence of authority to execute and be bound by the contract.

This contract has been approved for form, substance, and execution by the New Hampshire Department of Justice.

Respectfully submitted,

David J. Mikolaities
Major General, NH National Guard
The Adjutant General

Docusign Envelope ID: A5EA4443-DF8F-8AC7-8249-10547AED2F52

RFB-DMAVS-2027-02

Name of RFB: NHARNG Lebanon Readiness Center – Door Replacement

Number of Responses to RFB: Four (4)

Contractor	Bid Amount	Rank
Triple Construction LLC	$158,754.00	A
True North Management	$283,500.00	B
J.J. Murphy LLC	$287,510.00	C
JBC Construction LLC	$599,469.00	D

Contract Awarded to: Triple Construction LLC

STATE OF NEW HAMPSHIRE
DEPARTMENT OF MILITARY AFFAIRS AND VETERANS SERVICES
BID FORM

BID POSTING
Date: 07/16/2026
Time: 3:00 PM EST
Subject: **RFB-DMAVS-2027-02**

BID CLOSING
Date: 08/07/2026
Time: 12:00 PM EST

Location Address: 174 Heater Rd. Lebanon, NH 03766

CONTRACT PRICE
Numerical Bid $ 143,754

Verbal Bid One hundred forty three thousand seven hundred fifty four dollar

Allotment for Owner Initiated Repairs And Changes $ *15,000.00* *Fifteen Thousand Dollars*

TOTAL BID AMOUNT
Numerical Bid $ 158,754

Verbal Bid One hundred fifty eight thousand seven hundred fifty four dollar

VENDOR CONTACT INFORMATION:
Please provide contact information below for a person knowledgeable of and who can answer questions regarding this bid response.

Jennifer Poles	603-546-1082 x 503	
Contact Person	Local Telephone Number	Toll Free Telephone Number

jpoles@triple-construction.com	www.triple-construction.com
E-mail Address	Company Website

Vendor Company Name: Triple Construction LLC

Vendor Address: 237 Daniel Webster highway, Merrimack NH 03054

Initials AP
Date 8/12/26

FORM NUMBER P-37 (version 2/23/2023)

Notice: This agreement and all of its attachments shall become public upon submission to Governor and Executive Council for approval. Any information that is private, confidential or proprietary must be clearly identified to the agency and agreed to in writing prior to signing the contract.

AGREEMENT

The State of New Hampshire and the Contractor hereby mutually agree as follows:

GENERAL PROVISIONS

1. IDENTIFICATION.

1.1 State Agency Name Department of Military Affairs and Veteran Services		1.2 State Agency Address 1 Minuteman Way, Building 1, Concord, NH 03301	
1.3 Contractor Name Triple Construction (VC#:395282)		1.4 Contractor Address 237 Daniel Webster Highway, Merrimack, NH 03054	
1.5 Contractor Phone Number (603) 546-1082 ext 503	1.6 Account Unit and Class 10-12-12-22450000-103-500736	1.7 Completion Date 2/28/2027	1.8 Price Limitation Not to Exceed $158,754.00
1.9 Contracting Officer for State Agency Quinton Hawkins		1.10 State Agency Telephone Number (603) 225-1372	
1.11 Contractor Signature Signed by: Kevin Cormier Date: 8.26.26 132ED5AE6C3C471...		1.12 Name and Title of Contractor Signatory Kevin Cormier, Member	
1.13 State Agency Signature Date: 09/04/26		1.14 Name and Title of State Agency Signatory Quinton Hawkins Administrator of Business Operations	
1.15 Approval by the N.H. Department of Administration, Division of Personnel *(if applicable)* By:		Director, On:	
1.16 Approval by the Attorney General (Form, Substance and Execution) *(if applicable)* By: J.D. Lavallee		On: 10/20/2026	
1.17 Approval by the Governor and Executive Council *(if applicable)* G&C Item number:		G&C Meeting Date:	

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Contractor Initials

Date 8.26.26

2. SERVICES TO BE PERFORMED. The State of New Hampshire, acting through the agency identified in block 1.1 ("State"), engages contractor identified in block 1.3 ("Contractor") to perform, and the Contractor shall perform, the work or sale of goods, or both, identified and more particularly described in the attached EXHIBIT B which is incorporated herein by reference ("Services").

3. EFFECTIVE DATE/COMPLETION OF SERVICES.

3.1 Notwithstanding any provision of this Agreement to the contrary, and subject to the approval of the Governor and Executive Council of the State of New Hampshire, if applicable, this Agreement, and all obligations of the parties hereunder, shall become effective on the date the Governor and Executive Council approve this Agreement, unless no such approval is required, in which case the Agreement shall become effective on the date the Agreement is signed by the State Agency as shown in block 1.13 ("Effective Date").

3.2 If the Contractor commences the Services prior to the Effective Date, all Services performed by the Contractor prior to the Effective Date shall be performed at the sole risk of the Contractor, and in the event that this Agreement does not become effective, the State shall have no liability to the Contractor, including without limitation, any obligation to pay the Contractor for any costs incurred or Services performed.

3.3 Contractor must complete all Services by the Completion Date specified in block 1.7.

4. CONDITIONAL NATURE OF AGREEMENT.

Notwithstanding any provision of this Agreement to the contrary, all obligations of the State hereunder, including, without limitation, the continuance of payments hereunder, are contingent upon the availability and continued appropriation of funds. In no event shall the State be liable for any payments hereunder in excess of such available appropriated funds. In the event of a reduction or termination of appropriated funds by any state or federal legislative or executive action that reduces, eliminates or otherwise modifies the appropriation or availability of funding for this Agreement and the Scope for Services provided in EXHIBIT B, in whole or in part, the State shall have the right to withhold payment until such funds become available, if ever, and shall have the right to reduce or terminate the Services under this Agreement immediately upon giving the Contractor notice of such reduction or termination. The State shall not be required to transfer funds from any other account or source to the Account identified in block 1.6 in the event funds in that Account are reduced or unavailable.

5. CONTRACT PRICE/PRICE LIMITATION/ PAYMENT.

5.1 The contract price, method of payment, and terms of payment are identified and more particularly described in EXHIBIT C which is incorporated herein by reference.

5.2 Notwithstanding any provision in this Agreement to the contrary, and notwithstanding unexpected circumstances, in no event shall the total of all payments authorized, or actually made hereunder, exceed the Price Limitation set forth in block 1.8. The payment by the State of the contract price shall be the only and the complete reimbursement to the Contractor for all expenses, of whatever nature incurred by the Contractor in the performance hereof, and shall be the only and the complete compensation to the Contractor for the Services.

5.3 The State reserves the right to offset from any amounts otherwise payable to the Contractor under this Agreement those liquidated amounts required or permitted by N.H. RSA 80:7 through RSA 80:7-c or any other provision of law.

5.4 The State's liability under this Agreement shall be limited to monetary damages not to exceed the total fees paid. The Contractor agrees that it has an adequate remedy at law for any breach of this Agreement by the State and hereby waives any right to specific performance or other equitable remedies against the State.

6. COMPLIANCE BY CONTRACTOR WITH LAWS AND REGULATIONS/EQUAL EMPLOYMENT OPPORTUNITY.

6.1 In connection with the performance of the Services, the Contractor shall comply with all applicable statutes, laws, regulations, and orders of federal, state, county or municipal authorities which impose any obligation or duty upon the Contractor, including, but not limited to, civil rights and equal employment opportunity laws and the Governor's order on Respect and Civility in the Workplace, Executive order 2020-01. In addition, if this Agreement is funded in any part by monies of the United States, the Contractor shall comply with all federal executive orders, rules, regulations and statutes, and with any rules, regulations and guidelines as the State or the United States issue to implement these regulations. The Contractor shall also comply with all applicable intellectual property laws.

6.2 During the term of this Agreement, the Contractor shall not discriminate against employees or applicants for employment because of age, sex, sexual orientation, race, color, marital status, physical or mental disability, religious creed, national origin, gender identity, or gender expression, and will take affirmative action to prevent such discrimination, unless exempt by state or federal law. The Contractor shall ensure any subcontractors comply with these nondiscrimination requirements.

6.3 No payments or transfers of value by Contractor or its representatives in connection with this Agreement have or shall be made which have the purpose or effect of public or commercial bribery, or acceptance of or acquiescence in extortion, kickbacks, or other unlawful or improper means of obtaining business.

6.4. The Contractor agrees to permit the State or United States access to any of the Contractor's books, records and accounts for the purpose of ascertaining compliance with this Agreement and all rules, regulations and orders pertaining to the covenants, terms and conditions of this Agreement.

7. PERSONNEL.

7.1 The Contractor shall at its own expense provide all personnel necessary to perform the Services. The Contractor warrants that all personnel engaged in the Services shall be qualified to perform the Services, and shall be properly licensed and otherwise authorized to do so under all applicable laws.

7.2 The Contracting Officer specified in block 1.9, or any successor, shall be the State's point of contact pertaining to this Agreement.

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Date 8.26.26

8. EVENT OF DEFAULT/REMEDIES.

8.1 Any one or more of the following acts or omissions of the Contractor shall constitute an event of default hereunder ("Event of Default"):

8.1.1 failure to perform the Services satisfactorily or on schedule;

8.1.2 failure to submit any report required hereunder; and/or

8.1.3 failure to perform any other covenant, term or condition of this Agreement.

8.2 Upon the occurrence of any Event of Default, the State may take any one, or more, or all, of the following actions:

8.2.1 give the Contractor a written notice specifying the Event of Default and requiring it to be remedied within, in the absence of a greater or lesser specification of time, thirty (30) calendar days from the date of the notice; and if the Event of Default is not timely cured, terminate this Agreement, effective two (2) calendar days after giving the Contractor notice of termination;

8.2.2 give the Contractor a written notice specifying the Event of Default and suspending all payments to be made under this Agreement and ordering that the portion of the contract price which would otherwise accrue to the Contractor during the period from the date of such notice until such time as the State determines that the Contractor has cured the Event of Default shall never be paid to the Contractor;

8.2.3 give the Contractor a written notice specifying the Event of Default and set off against any other obligations the State may owe to the Contractor any damages the State suffers by reason of any Event of Default; and/or

8.2.4 give the Contractor a written notice specifying the Event of Default, treat the Agreement as breached, terminate the Agreement and pursue any of its remedies at law or in equity, or both.

9. TERMINATION.

9.1 Notwithstanding paragraph 8, the State may, at its sole discretion, terminate the Agreement for any reason, in whole or in part, by thirty (30) calendar days written notice to the Contractor that the State is exercising its option to terminate the Agreement.

9.2 In the event of an early termination of this Agreement for any reason other than the completion of the Services, the Contractor shall, at the State's discretion, deliver to the Contracting Officer, not later than fifteen (15) calendar days after the date of termination, a report ("Termination Report") describing in detail all Services performed, and the contract price earned, to and including the date of termination. In addition, at the State's discretion, the Contractor shall, within fifteen (15) calendar days of notice of early termination, develop and submit to the State a transition plan for Services under the Agreement.

10. PROPERTY OWNERSHIP/DISCLOSURE.

10.1 As used in this Agreement, the word "Property" shall mean all data, information and things developed or obtained during the performance of, or acquired or developed by reason of, this Agreement, including, but not limited to, all studies, reports, files, formulae, surveys, maps, charts, sound recordings, video recordings, pictorial reproductions, drawings, analyses, graphic representations, computer programs, computer printouts, notes, letters, memoranda, papers, and documents, all whether finished or unfinished.

10.2 All data and any Property which has been received from the State, or purchased with funds provided for that purpose under this Agreement, shall be the property of the State, and shall be returned to the State upon demand or upon termination of this Agreement for any reason.

10.3 Disclosure of data, information and other records shall be governed by N.H. RSA chapter 91-A and/or other applicable law. Disclosure requires prior written approval of the State.

11. CONTRACTOR'S RELATION TO THE STATE. In the performance of this Agreement the Contractor is in all respects an independent contractor, and is neither an agent nor an employee of the State. Neither the Contractor nor any of its officers, employees, agents or members shall have authority to bind the State or receive any benefits, workers' compensation or other emoluments provided by the State to its employees.

12. ASSIGNMENT/DELEGATION/SUBCONTRACTS.

12.1 Contractor shall provide the State written notice at least fifteen (15) calendar days before any proposed assignment, delegation, or other transfer of any interest in this Agreement. No such assignment, delegation, or other transfer shall be effective without the written consent of the State.

12.2 For purposes of paragraph 12, a Change of Control shall constitute assignment. "Change of Control" means (a) merger, consolidation, or a transaction or series of related transactions in which a third party, together with its affiliates, becomes the direct or indirect owner of fifty percent (50%) or more of the voting shares or similar equity interests, or combined voting power of the Contractor, or (b) the sale of all or substantially all of the assets of the Contractor.

12.3 None of the Services shall be subcontracted by the Contractor without prior written notice and consent of the State.

12.4 The State is entitled to copies of all subcontracts and assignment agreements and shall not be bound by any provisions contained in a subcontract or an assignment agreement to which it is not a party.

13. INDEMNIFICATION. The Contractor shall indemnify, defend, and hold harmless the State, its officers, and employees from and against all actions, claims, damages, demands, judgments, fines, liabilities, losses, and other expenses, including, without limitation, reasonable attorneys' fees, arising out of or relating to this Agreement directly or indirectly arising from death, personal injury, property damage, intellectual property infringement, or other claims asserted against the State, its officers, or employees caused by the acts or omissions of negligence, reckless or willful misconduct, or fraud by the Contractor, its employees, agents, or subcontractors. The State shall not be liable for any costs incurred by the Contractor arising under this paragraph 13. Notwithstanding the foregoing, nothing herein contained shall be deemed to constitute a waiver of the State's sovereign immunity, which immunity is hereby reserved to the State. This covenant in paragraph 13 shall survive the termination of this Agreement.

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Date 8.26.26

14. INSURANCE.
14.1 The Contractor shall, at its sole expense, obtain and continuously maintain in force, and shall require any subcontractor or assignee to obtain and maintain in force, the following insurance:
14.1.1 commercial general liability insurance against all claims of bodily injury, death or property damage, in amounts of not less than $1,000,000 per occurrence and $2,000,000 aggregate or excess; and
14.1.2 special cause of loss coverage form covering all Property subject to subparagraph 10.2 herein, in an amount not less than 80% of the whole replacement value of the Property.
14.2 The policies described in subparagraph 14.1 herein shall be on policy forms and endorsements approved for use in the State of New Hampshire by the N.H. Department of Insurance, and issued by insurers licensed in the State of New Hampshire.
14.3 The Contractor shall furnish to the Contracting Officer identified in block 1.9, or any successor, a certificate(s) of insurance for all insurance required under this Agreement. At the request of the Contracting Officer, or any successor, the Contractor shall provide certificate(s) of insurance for all renewal(s) of insurance required under this Agreement. The certificate(s) of insurance and any renewals thereof shall be attached and are incorporated herein by reference.

15. WORKERS' COMPENSATION.
15.1 By signing this agreement, the Contractor agrees, certifies and warrants that the Contractor is in compliance with or exempt from, the requirements of N.H. RSA chapter 281-A *("Workers' Compensation")*.
15.2 To the extent the Contractor is subject to the requirements of N.H. RSA chapter 281-A, Contractor shall maintain, and require any subcontractor or assignee to secure and maintain, payment of Workers' Compensation in connection with activities which the person proposes to undertake pursuant to this Agreement. The Contractor shall furnish the Contracting Officer identified in block 1.9, or any successor, proof of Workers' Compensation in the manner described in N.H. RSA chapter 281-A and any applicable renewal(s) thereof, which shall be attached and are incorporated herein by reference. The State shall not be responsible for payment of any Workers' Compensation premiums or for any other claim or benefit for Contractor, or any subcontractor or employee of Contractor, which might arise under applicable State of New Hampshire Workers' Compensation laws in connection with the performance of the Services under this Agreement.

16. WAIVER OF BREACH. A State's failure to enforce its rights with respect to any single or continuing breach of this Agreement shall not act as a waiver of the right of the State to later enforce any such rights or to enforce any other or any subsequent breach.

17. NOTICE. Any notice by a party hereto to the other party shall be deemed to have been duly delivered or given at the time of mailing by certified mail, postage prepaid, in a United States Post Office addressed to the parties at the addresses given in blocks 1.2 and 1.4, herein.

18. AMENDMENT. This Agreement may be amended, waived or discharged only by an instrument in writing signed by the parties hereto and only after approval of such amendment, waiver or discharge by the Governor and Executive Council of the State of New Hampshire unless no such approval is required under the circumstances pursuant to State law, rule or policy.

19. CHOICE OF LAW AND FORUM.
19.1 This Agreement shall be governed, interpreted and construed in accordance with the laws of the State of New Hampshire except where the Federal supremacy clause requires otherwise. The wording used in this Agreement is the wording chosen by the parties to express their mutual intent, and no rule of construction shall be applied against or in favor of any party.
19.2 Any actions arising out of this Agreement, including the breach or alleged breach thereof, may not be submitted to binding arbitration, but must, instead, be brought and maintained in the Merrimack County Superior Court of New Hampshire which shall have exclusive jurisdiction thereof.

20. CONFLICTING TERMS. In the event of a conflict between the terms of this P-37 form (as modified in EXHIBIT A) and any other portion of this Agreement including any attachments thereto, the terms of the P-37 (as modified in EXHIBIT A) shall control.

21. THIRD PARTIES. This Agreement is being entered into for the sole benefit of the parties hereto, and nothing herein, express or implied, is intended to or will confer any legal or equitable right, benefit, or remedy of any nature upon any other person.

22. HEADINGS. The headings throughout the Agreement are for reference purposes only, and the words contained therein shall in no way be held to explain, modify, amplify or aid in the interpretation, construction or meaning of the provisions of this Agreement.

23. SPECIAL PROVISIONS. Additional or modifying provisions set forth in the attached EXHIBIT A are incorporated herein by reference.

24. FURTHER ASSURANCES. The Contractor, along with its agents and affiliates, shall, at its own cost and expense, execute any additional documents and take such further actions as may be reasonably required to carry out the provisions of this Agreement and give effect to the transactions contemplated hereby.

25. SEVERABILITY. In the event any of the provisions of this Agreement are held by a court of competent jurisdiction to be contrary to any state or federal law, the remaining provisions of this Agreement will remain in full force and effect.

26. ENTIRE AGREEMENT. This Agreement, which may be executed in a number of counterparts, each of which shall be deemed an original, constitutes the entire agreement and understanding between the parties, and supersedes all prior agreements and understandings with respect to the subject matter hereof.

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Date 8.26.26

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STATE OF NEW HAMPSHIRE

DEPARTMENT OF MILITARY AFFAIRS & VETERANS SERVICES
NEW HAMPSHIRE ARMY NATIONAL GUARD

NHARNG LEBANON READINESS CENTER – DOOR REPLACEMENT
RFB-DMAVS-2027-02

EXHIBIT A
SPECIAL PROVISIONS

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SECTION 1 – SPECIAL PROVISIONS

1. OVERVIEW

The following special provisions modify, change, delete or add to the General Provisions of the form P-37 agreement. Where any part of the General Provisions is modified or voided by these Special Provisions, the unaltered provisions for that part shall remain in effect.

A. The term "Contracting Officer" as used in this agreement shall mean the State's Contracting Officer as is specified at item #1.9 of the General Provisions of this agreement or his/her authorized representative. No individual shall be an authorized representative of the Contracting Officer unless he or she is so appointed in writing by the Contracting Officer, in which case such written appointment shall be provided to the Contractor.

B. The Contractor shall be responsible for correcting, at his own cost and expense, defective work, or damaged property when defects and damage are caused by the Contractor's employees, equipment, or supplies, or sub-contractors employed as a part of this agreement. The Contracting Officer may withhold all or part of payments due to the Contractor until defective work or damaged property caused by the Contractor, his employees, equipment, or supplies, or sub-contractors employed as a part of this agreement is placed in satisfactory condition.

C. **General Provisions** are amended as follows:
   a. **Provision 14. INSURANCE:** ***Add*** the following sub-sub-part:
   "14.1.3 Insurance against all claims arising from the Contractor's use of automobiles in the conduct of this agreement, in amounts of not less than $250,000.00 per person bodily injury liability, $500,000.00 per occurrence bodily injury liability and $50,000.00 property damage liability."

D. ***Add*** the following as Special Provisions to the extent not inconsistent with the express terms of this Agreement:

2. CONTRACT SECURITY

The Contractor shall within ten (10) days after the receipt of the Notice of Award furnish the Owner with a performance bond and a payment bond in penal sums equal to the amount of the Contract price conditioned upon the performance by the Contractor of all undertakings, covenants, terms, conditions and agreements of the Contract Documents, and upon the prompt payment by the Contractor to all persons supplying labor and materials in the prosecution of the Work provided by the Contract Documents. Such Bonds shall be executed by the Contractor and a corporate bonding company licensed to transact business in the State in which the Work is to be performed and named on the current list of "Surety Companies Acceptable on Federal Bonds" as published in the Treasury Department Circular Number 570. The expense of these Bonds shall be borne by the Contractor.

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3. ACCESS TO RECORDS

The contractor shall grant access to any books, documents, papers, and records that are directly pertinent to this contract, to enable and support audits, examinations, excerpts, and transcriptions to the following entities and their duly authorized representatives:

A. The State of New Hampshire
B. The Federal Awarding Agency to include the Inspector General
C. The Comptroller General of the United States

4. RECORDS RETENTION

Between the Effective Date and three (3) years after the Completion Date, as often as the State, DMAVS, or Federal Government shall demand, the Contractor shall make available for audit purposes, all records that pertain to this Agreement. Upon demand the contractor shall provide copies of such documents which may include but are not limited to invoices, payrolls, records of personnel, and other information relating to all matters covered in this agreement.

5. NONDISCRIMINATION

The contractor covenants and agrees that no person shall be subject to discrimination or denied benefits in connection with the contractor's performance under this agreement. Accordingly, and to the extent applicable, the contractor covenants and agrees to comply with the following national policies prohibiting discrimination:

A. On the basis of race, color or national origin, in Title VI of the Civil Rights Act of 1964 (42 U.S.C. Section 2000d et seq.), as implemented by DoD regulations at 32 CFR part 195.
B. On the basis of race, color or national origin, in Executive Order 11246 as implemented by Department of Labor regulations at 41 CFR part 60.
C. On the basis of sex or blindness, in Title IX of the Education Amendments of 1972 (20 U.S.C. 1681, et seq.), as implemented by DoD regulations at 32 CFR part 196.
D. On the basis of age, in The Age Discrimination Act of 1975 (42 U.S.C. Section 6101 et seq.), as implemented by Department of Health and Human Services regulations at 45 CFR part 90.
E. On the basis of handicap, in Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794), as implemented by Department of Justice regulations at 28 CFR part 41 and DoD regulations at 32 CFR part 56.

6. WAGE RATE REQUIREMENTS *(Construction, Alteration, or Repair Contracts)*

For any contract in excess of $2,000.00 for the construction, alteration, or repair (including painting and decorating) of public buildings or public works, the contractor covenants and agrees to comply with the Davis-Bacon and Related Acts. The contractor further covenants and agrees to ensure compliance with the Davis-Bacon and Related Acts for any subcontract award under this contract. Under Davis-Bacon and Related Acts, contractors and subcontractors must pay their laborers and mechanics employed under the contract no less than the locally prevailing wages and fringe benefits for corresponding work on similar projects in the area.

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7. LOBBYING *(Non-Profit Organization Contracts)*

For any contract exceeding $100,000.00, the contractor covenants and agrees to submit to the Department of Military Affairs and Veterans Services the certification and any disclosure forms regarding lobbying that are required under 31 U.S.C. 1352, as implemented by the DoD (NGB) at 32 CFR part 28.

A. Nonprofit organizations described in section 501(c)(4) of title 26, United States Code (the Internal Revenue Code of 1968) may not engage in lobbying activities as defined in the Lobbying Disclosure Act of 1995 (2 U.S.C., chapter 26). If DMAVS determines that the nonprofit has engaged in lobbying activities, all payments under this and other contracts with the Department shall cease and the contract(s) shall be terminated unilaterally for material failure to comply with the provisions as outlined in this agreement.

8. DRUG FREE WORKPLACE

The Contractor covenants and agrees to comply with the requirements regarding drug-free workplace in of 32 CFR Part 26, which implements section 5151-5160 of the Drug-Free Workplace act of 1988 (Public Law 100-690, Title V, Subtitle D; 41 U.S.C. 701, et seq.).

9. ENVIRONMENTAL PROTECTION

The Contractor covenants and agrees that its performance under this Agreement shall comply with:

A. The requirements of Section 114 of the Clean Air Act (42 U.S.C. Section 7414);
B. Section 308 of the Federal Water Pollution Control Act (33 U.S.C. Section 1318), that relates generally to inspection, monitoring, entry reports, and information, and with all regulations and guidelines issued there under;
C. The Resources Conservation and Recovery Act (RCRA);
D. The Comprehensive Environmental Response, Compensation and Liabilities Act (CERCLA);
E. The National Environmental Policy Act (NEPA);
F. The Solid Waste Disposal Act
G. The applicable provisions of the Clean Air Act (42 U.S.C. 7401, et seq.) and Clean Water Act (33 U.S.C. 1251, et seq.), as implemented by Executive Order 11738 and Environmental Protection Agency (EPA) rules at 40 CFR part 31;
H. To identify any impact this award may have on the quality of the human environment and provide help as needed to comply with the National Environmental Policy Act (NEPA, at 42 U.S.C. 4321, et seq.) and any applicable federal, state, or local environmental regulation.

In accordance with the EPA rules, the parties further agree that the Contractor shall also identify to the Department any impact this award may have on:

A. The quality of the human environment and provide help the agency may need to comply with the National Environmental Policy Act (NEPA, at 42 U.S.C 4321, et seq.) and to prepare Environment Impact Statements or other required environmental documentation.

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a. In such cases, the recipient agrees to take no action that will have an adverse environmental impact (e.g., physical disturbance of a site such as breaking of ground) until the agency provides written notification of compliance with the environmental impact analysis process.

B. Flood-prone areas and provide help the agency may need to comply with the National Flood Insurance Act of 1968 and Flood Disaster Protection Act of 1973 (42 U.S.C. 4001, et seq.), which require flood insurance, when available, for federally assisted construction or acquisition in flood-prone areas.

C. Coastal zones and provide help the agency may need to comply with the Coastal Zone Management Act of 1972 (16 U.S.C. 1451, et seq.), concerning protection of U.S. coastal resources.

D. Coastal barriers and provide help the agency may need to comply with the Coastal Barriers Resource Act (16 U.S.C. 3501 et seq.), concerning preservation of barrier resources.

E. Any existing or proposed component of the National Wild and Scenic Rivers System and provide help the agency may need to comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. 1271 et seq.).

F. Underground sources of drinking water in areas that have an aquifer that is the sole or principal drinking water source and provide help the agency may need to comply with the Safe Drinking Water Act (42 U.S.C 300H-3).

10. PURCHASE OF RECOVERED MATERIALS BY STATES OR POLITICAL SUBDIVISIONS OF STATES *(Construction, Alteration, or Repair Contracts)*

If, for the execution of this contract, the Contractor purchases items designated in Environmental Protection Agency (EPA) regulations in 40 CFR part 247, Subpart B, the contractor covenants and agrees to comply with applicable requirements within those EPA regulations, which implement section 6002 of the Resource Conservation and Recovery Act of 1976, as amended (42 U.S.C. 6962).

11. FLY AMERICA REQUIREMENTS

The contractor covenants and agrees to comply with the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. 40118, also known as the "Fly America" act), as implemented at 41 CFR 301-10.131 through 301-10.143 which provides that U.S. Government-financed international air travel of passengers and transportation of personal effects or property must use a U.S. Flag air carrier or be performed under a cost-sharing arrangement with a U.S. carrier if such service is available.

A. The contractor shall include the requirements of the Fly America Act in all subcontracts that might involve international air transportation.

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12. USE OF UNITED STATES FLAG CARRIERS *(Construction, Alteration, or Repair Contracts)*

The contractor covenants and agrees to comply with the Department of Transportation regulations at 46 CFR 381.7(b) requiring at least 50 percent of equipment, materials, or commodities purchased or otherwise obtained with federal funds under cooperative agreement awards, and transported by ocean vessel, be transported on privately owned U.S. flag commercial vessels, if available.

13. DEBARMENT AND SUSPENSION

Non-federal entities and contractors are subject to the non-procurement debarment and suspension regulations implementing Executive Orders 12549 and 12698, 2 CFR part 180. These regulations restrict awards, sub awards, and contracts with certain parties that are debarred, suspended, or otherwise excluded for or ineligible for participation in Federal assistance programs or activities. The State complies with the DOD implementation of 2 CFR part 180 (at 2 CFR Part 1125) by checking the Excluded Parties List System (EPLS) at www.sam.gov to verify contractor eligibility to receive contracts and subcontracts resulting from the Federal Agreement which funds this contract. The state shall not solicit offers from, nor award contracts to contractors listed in EPLS. This verification shall be documented in the State and subrecipient contract files and shall be subject to audit by the grantor and Federal/State audit agencies.

14. INFRASTRUCTUIRE INVESTMENT AND JOBS ACT ("IIJA")

The DMAVS covenants and agrees that it will not expend any funds appropriated by Congress unless all of the iron, steel, manufactured products, and construction materials used in projects undertaken for the Department are produced in the United States. Grants and Cooperative Agreements Policy Letter, 22-06, Initial Implementation Guidance on Application of Buy America Preference in Federal Financial Assistance Programs for Infrastructure. The Contractor covenants and agrees to utilize American made iron, steel, manufactured products, and construction materials for the completion of the work under this agreement. The Contractor further agrees to notify the Contracting Officer in the event that American materials are not available.

15. UNIFORM RELOCATION ASSISTANCE AND REAL PRPERTY ACQUISITION POLICIES

The DMAVS covenants and agrees that it will comply with CFR 49 part 24, which implements the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (42 U.S.C. Section 4601 et seq.) and provides for fair and equitable treatment of persons displaced by federally assisted programs or persons whose property is acquired as a result of such programs.

16. COPELAND "ANTI-KICKBACK" ACT *(Construction, Alteration, or Repair Contracts)*

The contractor covenants and agrees that it will comply with the Copeland "Anti-Kickback" Act (18 U.S.C. Section 874) as supplemented in Department of Labor regulations (29 CFR Part 3). As

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applied to this agreement, the Copeland "Anti-Kickback" Act makes it unlawful to induce, by force, intimidation, threat of procuring dismissal from employment, or otherwise, any person employed in the construction or repair of public buildings or public works, financed in whole or in part by the United States, to give up any part of the compensation to which that person is entitled under a contract of employment.

17. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

For contracts in an among greater than $100,000.00 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act that involve the employment of mechanics or laborers and is not a type of contract excepted under 40 U.S.C. 3701, the contractor covenants and agrees that it will comply with the clauses specified in the Department of Labor (DoL) regulations at 29 CFR 5.5(b) to require use of wage standards that comply with the Contract Work Hours and Safety Standards Act (40 CFR, Subtitle II, Part A, Chapter 37), as implemented by the DoL at 29 CFR part 5, "Labor Standards Provisions Applicable to Contracts Governing Federally Financed and Assisted Construction". As applied to this contract, the Contract Work Hours and Safety Standards Act specifies that no laborer or mechanic doing any part of the work contemplated by this agreement shall be required or permitted to work more than 40 hours in any workweek unless paid for all additional hours at not less than 1.5 times the basic rate of pay.

18. NATIONAL DEFENSE AUTHORIZATION ACT (NDAA)

(for Fiscal Year (FY) 2019 (Public Law 115-232))

The contractor covenants and agrees that it will not use "covered telecommunications equipment or services," as that term is defined in Section 889 of the NDAA for FY 2019, as a substantial or essential component of any system or as critical technology as part of any system involved in the contractor's performance of this contract. The contractor further covenants and agrees that it will not subcontract any part of its performance under this contract to any entity that uses such covered telecommunications equipment or services as a substantial or essential component of any system or as critical technology as part of any system.

19. PROHIBITION ON CERTAIN INTERNAL CONFIDENTIALITY AGREEMENTS

The contractor agrees and covenants that it will not require its employees, contractors, or subrecipients seeking to report fraud, waste, or abuse to sign or comply with internal confidentiality agreements or statements prohibiting or otherwise restricting them from lawfully reporting that waste, fraud, or abuse to a designated investigative or law enforcement representative of a federal department or agency authorized to receive such information.

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STATE OF NEW HAMPSHIRE

DEPARTMENT OF MILITARY AFFAIRS & VETERANS SERVICES NEW HAMPSHIRE ARMY NATIONAL GUARD

NHARNG LEBANON READINESS CENTER – DOOR REPLACEMENT
RFB-DMAVS-2027-02

EXHIBIT B
SCOPE OF SERVICES

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SECTION 1 – SCOPE OF SERVICES

1. GENERAL CONDITIONS

A. This Agreement consists of the following documents: Form P-37 and Exhibits A, B, C, D, and Attachments 6 & 7 which are all incorporated herein by reference as if fully set forth herein.

B. The Exhibit B: Scope of Services shall include all the information and requirements about the project that are derived herein as well as the Project Manual (Attachment 6), the authorized construction drawings/documents and clarification sketches (Attachment 7) as well as any addendums.

C. The project consists of removing and replacing five (5) exterior door assemblies, including door frames, doors, and associated hardware. The project will include the Discipline(s) of: Demolition of existing systems, Thermal and Moisture Protection, Door assembly supplier/installer.

D. The Contractor will provide all labor, parts, materials, tools, equipment, supplies, transportation, vehicles, Personal Protective Equipment, and any other incidentals necessary to travel to the NHARNG Lebanon Readiness Center in Lebanon, NH, to perform the contract services specified herein.

E. For any unanticipated work required, a written proposal will be submitted to the agency primary contact for approval prior to work commencing.

2. CONTRACT TERM

This Agreement shall be effective upon Governor and Executive Council approval through February 28, 2027.

3. PRIMARY AND SECONDARY CONTACTS

The Contractor will report to and work in conjunction with a DMAVS/NHARNG Primary and Secondary Contact as designated by the Department. The initial Contacts will be:

Primary:
Ken Coombs
Architect/Project Manager
(603) 227-1466
kenneth.e.coombs5.nfg@army.mil

Secondary:
Erik Hauck
Facility Operations Specialist, CFMO
(603) 227-5161
erik.r.hauck.mil@army.mil

The Department reserves the right to appoint an alternate Primary and Secondary Contact to assist in managing this contract.

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SECTION 2 – PROJECT CONDITIONS

1. CONTRACT DOCUMENTS

A. The Contract Documents consist of the Contract Agreement, General Conditions, and Supplementary General Conditions, Drawings and Specifications, including all Addenda issued prior to execution of the Contract; Bonds where required; insurance certificates: and subsequently thereto, Change Orders issued in accordance with the General Conditions.

B. The Contract Documents shall be signed by the Department and the Contractor in as many original counterparts as may be mutually agreed. No Contract shall be considered as in effect until it has been fully executed by all of the parties thereto and the award concurred in by Governor and Council. If there is federal funding, it must also have the concurrence of the applicable Federal Agency having jurisdiction.

C. This Contract is executed in a number of counterparts, each of which is an original and constitutes the entire agreement between the parties. This Contract shall be construed according to the laws of the State of New Hampshire. No portion of this Contract shall be understood to waive the sovereign immunity of the State. This Contract shall not be amended, except as specified herein, except with the approval of the Governor and Council.

D. The Contract Documents are complementary and anything called for by one of the Contract Documents and not called for by the others shall be of like effect as if required by all.

E. Should the Contract Documents disagree in themselves or with each other, the Contractor shall provide the better quality or greater quantity of work and or materials, unless specifically otherwise directed by written Addendum to the Contract.

F. The Contractors and all subcontractors shall refer to all of the Contract Documents, including those not specifically showing the work of their specialized trades, and shall perform all work reasonably inferable from them as being necessary to produce the intended results.

G. All indications or notations which apply to one of a number of similar situations, materials or processes shall be deemed to apply to all such situations, materials or processes wherever they appear in the work, except where a contrary result is clearly indicated by the Contract Documents.

H. Where codes, standards, requirements, and publications of public and private bodies are referred to in the Contract Documents, such references shall be understood to be to the latest revision prior to the date of receiving Bids, except where otherwise indicated.

I. Where no explicit quality or standards for materials or workmanship is established for work, such work is to be of good quality for the intended use and consistent with the quality of the surrounding work and of the construction of the Project in general.

J. All manufactured articles, materials, and equipment shall be applied, installed, connected, erected, tested, cleaned, and conditioned in accordance with the manufacturer's written or printed directions and instructions, unless specifically indicated otherwise in the Contract Documents.

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K. The Drawings are generally made to scale, but all working dimensions shall be taken from the figured dimensions or by actual measurements at the job. In case by scaling. Study and compare all the Drawings and verify all figures before laying out or constructing work. The Contractor shall be responsible for errors in his work that might have been avoided thereby. Whether or not an error is believed to exist, deviation from the Drawings and the dimensions given thereon shall be made only after approval in writing from the Department.

L. The Mechanical, Fire Protection (sprinkler) and Electrical Drawings, when provided, are diagrammatic only, and are not intended to show the exact physical locations or configurations of work. Such work shall be installed to clear all obstructions, permit proper clearances by coordinating his work with other trades, and present an orderly appearance where exposed.

2. ACCESS TO THE WORK

A. The Contractor shall provide for access to the work for inspection by the Department and government officials having jurisdiction. The Consultant, Engineer, and officials of Local, State, and Federal Agencies in the case of such programs as they administer and their authorized representatives shall have access at all times to the work for inspection wherever it is in preparation or progress, and the Contractor shall provide proper facilities for such access and inspection.

3. CONTRACT ADMINISTRATION

A. The Department shall determine the amount, quality, and acceptability and fitness of all parts of the work, shall interpret the Contract Documents, and any Change Orders, and shall decide all other issues in connection with the work. The Department shall have the authority to approve or order changes in the work that alter the terms or conditions of the Contract. The Department shall confirm in writing any oral order, direction, requirements or determination.

B. When a Federal Agency participates in the cost of the work covered by this Contract, the work shall be under the observation and inspection of the Department, but subject to the inspection and approval of the proper officials of the Federal Agency.

4. ACCIDENT PROTECTION

A. It is a condition of this Contract, and shall be made a condition of each subcontract entered into pursuant to the Contract, that the Contractor and any Subcontractors shall not require any laborer or mechanic employed in the performance of the Contract to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous to his health of safety as determined by construction safety and health standards of the Occupational Safety and Health Administration, United States Department of Labor, which standards include, by reference, the established Federal Safety and Health Regulations for Construction. These standards and regulations

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comprise Part 1910 and Part 1926 respectively of Title 29 of the Code of Federal Regulations and are set forth in the Federal Register. In the event any revisions in the Code of Federal Regulations are published, such revisions will be deemed to supersede the appropriate Part 1910 and Part 1926, and be effective as of the date set forth in the revised regulation.

5. HAZARDOUS MATERIALS

A. The Contractor shall also be aware of laws and regulations relating to hazardous materials that may be encountered during construction operations, either within project limits or at material sites off the project. The health and safety of employees, the general public, and the potential of damage to the overall environment is possible if hazardous materials are not recognized, reported, and the appropriate action taken to dispose of, remove from the site, or otherwise contain the possible contaminants.

B. If any abnormal condition is encountered or exposed that indicates the presence of a hazardous material or toxic waste, construction operations shall be immediately suspended in the area and the Department notified. No further work shall be conducted in the area of the contaminated material until the site has been investigated and the Department has given approval to continue the work in the area. The Contractor shall fully cooperate with the Department and perform any remedial work as directed. Work shall continue in other areas of the Project unless otherwise directed.

C. Exposure to hazardous materials may result from contact with, but not necessarily limited to, such items as drums, barrels, and other containers, waste such as cars, batteries, and building construction debris. Containers leaking unknown chemicals or liquids, abandoned cars leaking petroleum products, batteries leaking acid, construction debris which may include asbestos, or any other source of suspected hazardous material found within excavation areas or stockpiled on land within construction limits shall be referred to the Department of Environmental Services and the Department so that a proper identification of the materials may be made and disposal procedures initiated as required.

D. Disposition of the hazardous material or toxic waste shall be made under the requirements and regulations of the Department of Environmental Services. Work required disposing of these materials and any remedial work shall be performed under a Supplemental Agreement or Contract item, if included in the Contract.

6. SUBCONTRACTS

A. Nothing contained in the Specifications or Drawings shall be construed as creating any contractual relationship between any Subcontractor and the Department. The Divisions or Sections of the Specifications are not intended to control the Contractor in dividing the work among Subcontractors or to limit the work performed by any trade.

B. The Contractor shall be as fully responsible to the Department for the acts and omissions of Subcontractors and of persons employed by them, as he is for the acts and

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omissions of persons directly employed by him.

C. The Contractor shall, without additional expense to the State, utilize the services of specialty Subcontractors, as required.

D. The Department will not normally undertake to settle any differences between the Contractor and his Subcontractors or between Subcontractors.

E. The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind Subcontractors to the Contractor by the terms of the General Conditions and other Contract Documents insofar as applicable to the work of Subcontractors and to give the Contractor the same power as regards terminating any subcontract that the Department may exercise over the Contractor under any provisions of the Contract Documents.

F. Within fifteen (15) days after the award of the Contract, the Contractor shall submit a complete list of all of the Subcontractors setting forth in detail the work they will be responsible for. If a subcontractor is added during the construction process the Contractor will revise the list and resubmit to the Department.

7. RESPONSIBILITY OF CONTRACTOR TO ACT IN EMERGENCY

A. In case of any emergency that threatens loss or injury of property, and/or safety of life, the Contractor shall act, without previous instructions from the Department, as the situation may warrant. He shall notify the Department thereof immediately thereafter. Any compensation claimed by the Contractor together with substantiating documents in regard to expense, shall be submitted to the Department and the amount of compensation shall be determined by agreement.

8. SEPARATE CONTRACTS

A. The Department may award other Contracts in connection with the Project, the work under which will proceed simultaneously with the execution of this Contract. The Contractor shall coordinate operations with those of other Contractors.

9. MUTUAL RESPONSIBILITY OF CONTRACTORS

A. If the Contractor or any of his/her Subcontractors or employee's causes loss or damage to any separate Contractor or Subcontractor on the work, the Contractor or Subcontractor agrees to settle with such separate Contractor or Subcontractor by agreement, if he/she will so settle. If such separate Contractor or Subcontractor sues the State because of any loss so sustained, the Department shall notify the Contractor and/or their subcontractors, who shall indemnify and hold harmless the Department against any expenses or judgment arising there from.

10. PAYMENTS TO CONTRACTOR

A. The Department will manifest payments to the Contractor each calendar month on the basis of duly certified and approved estimate of the work performed during the

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preceding period. In preparing estimates, the material delivered on the site and any preparatory work done may be taken into consideration.

B. At least ten (10) days before the end of the billing period, the Contractor shall submit to the Department an itemized Requisition for Payment, supported by such data substantiating the Contractor's right to payment as the Department may require. If payment is to be made on account of materials or equipment not incorporated in the work, but delivered and suitably stored at the site, such payment shall be conditional upon submission by the Contractor of bills of sale or such other procedure satisfactory to the Department to establish the State's title to such materials or equipment or otherwise protect the State's interest including applicable insurance.

C. Immediately upon receipt of the Department Approved Monthly Requisition for Payment, Contractor shall post same at the Contractor's Field Office or project site in a location where Subcontractors and Suppliers have clear access.

D. A five (5) percent retainage of the value of the work performed on each partial estimate will be deducted and retained by the Department until after completion of the entire Contract in an acceptable manner. The balance remaining after the specified percentage has been retained, less all previous payments, will be certified for payment on each partial estimate.

E. Within thirty (30) days after acceptance, the Department shall pay to the Contractor the amount of the Contract less all prior payments. All prior payments and estimates, including those relative to extra work, shall be subject to correction by this payment, which is throughout this Contract called the Final Payment.

F. Retainage will be released at Final Payment.
   a. After the Certificate of Substantial Completion has been issued, upon written application by the Contractor and with the approval of the Surety, the Department **may** release a portion of the retained amount.

G. Payment for Material On Hand:
   a. Partial payments are made for materials to be incorporated in the Work, provided the materials meet the requirements of the Contract and are delivered on, or in the vicinity of, the Project site and stored in acceptable places. Partial payments will not exceed 90 percent of the Contract unit price for the item or the amount supported by copies of paid invoices, freight bills, or other supporting documents required by the Department. The quantity paid will not exceed the corresponding quantity estimate in the Contract. No partial payment will be made on living or perishable materials until incorporated in the Work.
   b. When material payments exceed $100,000 or 10 percent (10%) of the total contract amount, whichever is less, notarized copies of paid invoices or copies of canceled checks for all such materials must be submitted to the Department within 45 days of the end date of the estimate on which the material allowance was paid. Failure to provide such documentation will result in the deduction of

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such material allowance from future estimates until documentation is provided.

c. All material and work covered by partial payments made shall thereupon become the sole property of the Department, but this provision shall not be construed as relieving the Contractor of the sole responsibility of all materials and work upon which payments have been made or the restoration of any damaged work or as a waiver of the right of the State to require the fulfillment of all the terms of the Contract.

H. Payment for Material Not on Hand:

a. The Department will not pay for products and or materials that have not been delivered and stored properly on the construction site.

I. Release of Claims:

a. Neither the final payment nor any part of the retained percentage shall become due until the Contractor shall deliver a complete release of all claims arising under and by virtue of this Contract, including claims for all Subcontractors and suppliers of either materials or labor, plus a release of the Contract Bond and a statement that all Subcontractors and suppliers have been paid. The Department, may pay any and all such claims, in whole or in part, and deduct the amount or amounts so paid from any partial or final payment.

J. Final Payment:

a. Application for Final Payment received from the Contractor will be processed for payment not less than 60 days after project acceptance and final completion unless accompanied by a release of the Contract Bond. This payment shall be the amount of the Contract, amended by approved change orders, less previous payments minus liquidated damages, additional penalties or holdbacks. All prior partial estimates and payments shall be subject to correction in the final estimate and payment.

K. Acceptance of Final Payment Constitutes Release:

a. The acceptance of the Final Payment by the Contractor shall be and shall operate as a release to the Contractor of all claims and of all liability to the Department for all things done or furnished in connection with this work. No payment, however, final or otherwise, shall operate to release the Contractor and its Sureties from any obligations under this Contract or the Contract Bond. Acceptance of Final Payment shall not impact any warrantees provided by the Contractor with respect to this project.

11. LIMITATION OF CONSTRUCTION OPERATIONS

A. The normal working hours will be from 7:00 am until 3:30 pm M-F unless otherwise agreed in writing by the department.

B. The contractor may be displaced at any time with no notice in the event of a military mission that takes priority over construction.

C. In the State of New Hampshire, legal holidays occur on:

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a. New Year's Day
b. Washington's Birthday
c. Memorial Day Fourth of July
d. Labor Day
e. Veterans' Day
f. Thanksgiving Day and Day After
g. Christmas Day

D. Whenever a holiday is observed on a Friday or a Monday. The Contractor shall be required to suspend work for three (3) calendar days.
E. No work shall be performed on Saturday, Sundays or legal holidays except in cases of emergency and upon permission of the Department.

12. CONTRACTOR'S TITLE TO MATERIALS

A. No materials or supplies for the work shall be purchased by the Contractor or any Subcontractor subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by the seller. The Contractor warrants that he has good title to all materials and supplies for which he accepts partial payment. If any claim is made with respect to materials provided by the contactor, subcontractors, or Independent Contractors, the Contractor shall defend any such claim and shall pay any judgment or settlement thereon.

13. CHANGES IN WORK

A. The Department may at any time, by a written order, and without notice to the Sureties, make changes in the Drawings and Specifications and Completion Date of this Contract and within the general scope thereof.
B. The order shall stipulate the mutual agreed upon lump sum price, which shall be added to or deducted from the Contract Price. The Contractor shall furnish an itemized breakdown of the prices used in computing the value of any change that might be ordered.
C. The compensation herein provided shall be accepted by the Contractor as payment in full, including superintendence, bond, overhead, and profit, for extra work performed on a force account basis. For all such work, the Contractor shall furnish certified copies of the payrolls on forms provided for that purpose, invoices of all materials, and such other information as may be required by the Department.

14. PERMITS AND FEES

A. The selected Contractor is to obtain and pay for all construction licenses, permits, and fees as may be required by law for construction of State's facility, and pay for all fees and charges, and use of the property other than the site of the work for storage of materials or other purposes.

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B. The Contractor shall pay all applicable Federal, State and Local sales and other taxes, except taxes and assessments on the real property comprising the site of the Project.

15. PATENTS

A. The Contractor shall hold and save the Department and its officers, agents, servants, and employees harmless from liability of any nature including cost and expenses, for or on account of any patented or unpatented invention, process, article or applicable manufactured or used in the performance of the Contract, including its use, unless otherwise specifically stipulated in the Contract Documents.

16. ASSIGNMENTS

A. The Contractor shall not assign the whole or any part of this Contract or any monies due or to become due hereunder, without the written consent of the Department and of all Sureties executing any Bonds on behalf of the Contractor if in connection with said Contract.

17. SUPERINTENDENCE BY CONTRACTOR

A. The Contractor shall employ a competent Foreman or Superintendent, satisfactory to the Department, on the work site **at all times** to supervise the work in progress, with authority to act for him. The Contractor shall not change superintendents without permission from the Department and shall submit a request in writing with justification for such a change.
   a. The superintendent shall be responsible for verifying that all materials, installation, coordination, and workmanship are in conformance with the contract documents.
   b. Unless the Department has granted prior written approval, the superintendent shall not, himself, engage in "hands on" construction work.
   c. In the event the superintendent fails or refuses to perform functions mentioned above as determined by the Department, the Contractor agrees to a stipulated penalty of up to $500.00 per day, in addition to any liquidated damages provided hereunder.

18. FAILURE TO COMPLETE WORK ON TIME

A. If the Contractor fails to complete all of the work or sections of the Project, if sections are indicated, within the time specified in the Contract or within any additional time allowed, for each working day the Liquidated Damages identified in Section C below will be deducted from any money due the Contractor. This deduction will be made. not as a penalty, but as fixed, agreed liquidated damages for inconvenience to the Department and for reimbursing the Department the cost of the Administration of the Contract, including personnel, time, engineering and inspection. Should the amount of

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money otherwise due the Contractor be less than the amount of such liquidated damages, the Contractor and its Surety shall be liable to the Department for such deficiency.

B. If the Department permits the Contractor to continue and finish the work after the time fixed for its completion, it shall in no way operate as a waiver on the part of the Department of any of its rights under the Contract. When the final acceptance has been duly made by the Department, any liquidated damage charges shall end.

C. The fixed, agreed, liquidated damages shall be assessed in accordance with the following schedule.

Original Contract Amount		Amount of Liquidated damages per day
From more than:	to and including:	
0	25,000	$200.00
25,000	50,000	$300.00
50,000	100,000	$400.00
100,000	500,000	$500.00

19. SUBSTANTIAL COMPLETION AND FINAL INSPECTION

A. When the Contractor believes the project is substantially complete, they shall submit an application for substantial completion to the Department. The Contractor shall submit to the Department a list of items of work to be completed or corrected, accompanied by a cost value of these items. The Department will also provide a "punch List" of items to be completed based on their interpretation of the required finished product. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all work in accordance with the Contract Documents. On the basis of an inspection by the Department which determines that the work is substantially complete, a certificate of Substantial Completion shall be issued which will establish the Date of Substantial Completion and state the responsibilities of the Department and the Contractor for such as security, maintenance, heat, utilities, damage to the work and insurance, any other pertinent issues and fix the time limit within which the Contractor shall complete the items listed herein. Warranties required by the Contract Documents shall commence on the Date of Substantial Completion unless otherwise provided in the Certificate of Substantial Completion.

B. If the Contractor fails to proceed to complete the items on the "punch list," then in addition to the corrective measures listed in the Certificate of Substantial Completion, the Department may use the monies still due the Contractor to have such items completed and the Contractor shall lose any claim to the monies so used.

C. Upon written notice that the work is ready for final inspection and acceptance, the Department shall promptly make such inspection, and when they find the work acceptable under the Contract Documents and the Contract fully performed, the Contractor will be provided written notice to that effect. The Contractor shall provide

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all certificates and reports, as required, throughout the contract and shall coordinate their preparation and submission. Failure to submit such certificates and reports shall be considered default of contract.

20. TERMINATION OF CONTRACT WITH FAULT

A. If the Contractor:
   a. Fails to begin work under Contract within the time specified in the notice to proceed, or
   b. Fails to perform the work with sufficient workmen and equipment, or with sufficient materials to assume prompt completion of said work, or
   c. Performs the work unsuitably or neglects or refuses to remove materials or to perform anew such work as may be rejected as unacceptable and unsuitable, or
   d. Discontinues the prosecution of the work, or
   e. Fails to resume work, which has been discontinued, within a reasonable time after notice to do so, or
   f. Becomes insolvent or has declared bankruptcy, or commits any act of bankruptcy or insolvency, or
   g. Fails to pay subcontractors and material/product suppliers, or
   h. Makes an assignment for the benefit of creditors, or
   i. For any other causes whatsoever, fails to carry on the work in an acceptable manner.

B. The Department will give notice, in writing, to the Contractor and his Surety for such delay, neglect, and default for any item identified above.
   a. If the Contractor or Surety does not proceed in accordance with the Notice, then the Department will, upon the Contractor's failure to comply with such Notice, have full power and authority without violating the Contract, to take the prosecution of the work out of the hands of the Contractor. The Department may enter into an agreement for the completion of said Contract according to the terms and conditions thereof or use such other methods as in his opinion will be required for the completion of said Contract in an acceptable manner.
   b. All extra costs and charges incurred by the Department as a result of such delay, neglect or default, together with the cost of completing the work under the Contract will be deducted from any monies due or which may become due said Contractor. If such expenses exceed the sum that would have been payable under the Contract, then the Contractor and the Surety shall be liable and shall pay to the Department, the amount of such excess.

21. TERMINATION OF CONTRACT WITHOUT FAULT

A. Except in cases controlled by the preceding section, the Department, for any cause, including, but not limited to an order of any Federal authority or petition of the Contractor due to circumstances beyond his control may by written notice to the

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Contractor and the Surety terminate the Contract or any portion thereof subject to the Condition(s) i, ii, iii and iv provided below.

B. Notwithstanding anything to the contrary contained in these condition, it is understood and agreed by the parties hereto that all obligations of the Department hereunder, including the continuance of payments, are contingent upon the availability and continued appropriation of State and/or Federal Funds, and in no event shall the Department be liable for any payments hereunder in excess of such available or appropriated funds. In the event of a reduction, termination or failure to appropriate any or all such available funds or appropriations or a reduction of expenditures of State funds the Department may, by written notice to the Contractor and Surety, immediately terminate this Contract in whole or in part in accordance with the following conditions:
    a. When a Contract, or portion thereof, is terminated before completion of all items of work in the Contract, payment will be made for the actual items of work completed. Payment of items of work not completed at time of termination shall be the greater of the following amounts: (1) a percentage of the Contract unit price, which percentage shall be the percentage of completion of the particular item at time of termination or (2) such amount as shall be mutually agreed upon by the parties. No claim for loss of anticipated profits on items or units of work not completed will be allowed.
    b. Reimbursement for organization of the work and mobilization, when not otherwise included in the Contract, shall be made where the volume of work completed is too small to compensate the Contractor for these expenses under the Contract; the intent being that an equitable settlement be made with the Contractor.
    c. Acceptable materials, obtained or ordered by the Contractor for the work, and that are not incorporated in the work shall, at the option of the Contractor, be purchased from the Contractor based upon the delivered cost of the materials at such points of delivery as may be designated by the Department. The Contractor shall do everything possible to cancel unfilled orders.
    d. Termination of a Contract, or a portion thereof, shall not relieve the Contractor of his responsibilities for the work completed nor shall it relieve his Surety of its obligations for and concerning any claims arising out of the work performed.

22. ASSIGNMENT PROVISION

A. The Contractor hereby agrees that it will assign to the Department all causes of action that it may acquire under the anti-trust laws of New Hampshire and the United States as a result of conspiracies, combinations or contracts in restraint of trade which affect the price of goods or services obtained by the Department under this Contract, if so requested by the Department.

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SECTION 3 – EXECUTION REQUIREMENTS

1. CLOSEOUT PROCEDURES

A. Submit a signed Substantial Completion Application attesting that the Contract Documents have been reviewed, Work has been inspected, and that all Work is complete in accordance with Contract Documents and ready for the Department review.

B. Only after completion of all Punch List items and submission of all items the Contractor shall submit a Final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.

2. FINAL CLEANING

A. Execute final cleaning prior to final project assessment.

B. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.

C. Clean equipment and fixtures to sanitary condition with cleaning materials appropriate to surface and material being cleaned. Clean new light fixtures free from dust, dirt and fingerprints.

D. Replace filters of operating equipment.

E. Clean debris from roofs, roof drains, downspouts, and drainage systems.

F. Clean site, sweep paved areas, rake landscaped surfaces.

G. Remove waste and surplus materials, rubbish, and construction facilities from site.

3. STARTING OF SYSTEMS

A. Coordinate schedule for start-up of various equipment and systems.

B. Notify the Department seven days prior to start-up of each item.

C. Verify each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions which may cause damage.

D. Verify tests, meter readings, and specified electrical characteristics agree with those required by equipment or system manufacturer.

E. Verify wiring and support components for equipment are complete and tested.

F. When specified in individual specification Sections, require manufacturer to provide authorized representative to be present at site to inspect, check, and approve equipment or system installation prior to start-up, and to supervise placing equipment or system in operation.

G. Execute start-up under supervision of applicable manufacturer's representative and Contractors' personnel in accordance with manufacturer's instructions.

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H. Submit a written report stating that the equipment or system has been properly installed and is functioning correctly.

4. PROTECTING INSTALLED CONSTRUCTION

A. Protect installed Work and provide special protection where specified in individual specification sections.
B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
C. Provide protective coverings at walls, projections, jambs, sills and soffits of openings.
D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
E. Prohibit traffic or storage upon waterproofed or roofed surfaces. When traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturers.
F. Prohibit traffic from landscaped areas.

5. PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
    a. Drawings.
    b. Specifications.
    c. Addenda.
    d. Change Orders and other modifications to the Contract.
    e. Reviewed Shop Drawings, Product Data, approved submittals and Samples.
    f. Manufacturer's instruction for assembly, installation, and adjusting.

B. Ensure data is complete and accurate, enabling future reference by the Department.
C. Store record documents separate from documents used for construction.
D. Record information concurrent with construction progress, not less than weekly.
E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
    a. Manufacturer's name and product model and number.
    b. Product substitutions or alternates utilized.
    c. Changes made by Addenda and modifications.

F. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
    a. Measured depths of foundations in relation to finish floor datum.
    b. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
    c. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.

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d. Field changes of dimension and detail.
e. Details not on original Contract drawings.
f. Contractor to provide record drawings in AutoCad or Revit format compatible with current Department software as well as in PDF format.
g. Contractor to supply two (2) full size paper sets of record drawings to Department.

G. Submit documents to the Department prior to final payment and release of retainage.

6. OPERATION AND MAINTENANCE DATA

A. Submit data bound in 8·1/2 x 11 inch text pages, three D side ring binders with durable plastic covers. (2 complete copies of all materials required.)
B. Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS", title of project, and subject matter of binder when multiple binders are required.
C. Internally subdivide binder contents with permanent page dividers, logically organized as described below; with tab titling clearly printed under reinforced laminated plastic tabs.
D. Contents: Prepare Table of Contents for each volume, with each product or system description identified, typed on white paper, in three parts as follows:
    a. Part I: Directory, listing names, addresses, and telephone numbers of Architect/Engineers), Contractor, Subcontractors, and major equipment suppliers.
    b. Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of Subcontractors and suppliers. Identify the following:
        i. Significant design criteria.
        ii. List of equipment.
        iii. Parts list for each component.
        iv. Operating instructions.
        v. Maintenance instructions equipment and systems.
        vi. Maintenance instructions for special finishes, including recommended cleaning methods, materials and schedules, and special precautions identifying detrimental agents.

    c. Part 3: Project documents and certificates, including the following as required:
        i. Shop drawings and product data.
        ii. Air and water balance reports.
        iii. Certificates.
        iv. Originals and Photocopies of warranties and bonds.

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7. MANUAL FOR MATERIALS AND FINISHES

A. Submit one copy of preliminary draft or proposed formats and outlines of contents before start of Work. The Department will review draft and return one copy with comments.
B. For equipment, or component parts of equipment put into service during construction and operated by the Department, submit documents within ten days after acceptance.
C. Submit one copy of completed volumes prior to Substantial Completion. Draft copy be reviewed and returned with Architect/Engineer comments. Revise content of document sets as required prior to final submission.
D. Submit two sets of revised final volumes in final form prior to final inspection.
E. Building Products, Applied Materials, and Finishes: Include product data, with catalog number, size, composition, and color and texture designations. Include information for re-ordering custom manufactured products.
F. Instructions for Care and Maintenance: Include manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
G. Moisture Protection and Weather Exposed Products: Include product data listing applicable reference standards, chemical composition, and details of installation. Include recommendations for inspections, maintenance, and repair.
H. Additional Requirements: As specified in individual product specification sections.
I. Include listing in Table of Contents for design data, with tabbed fly sheet and space for insertion of data.

8. MANUAL FOR EQUIPMENT AND SYSTEMS

A. Submit two copies of preliminary draft or proposed formats and outlines of contents before start of Work. Contract Administrator will review draft and return one copy with comments.
B. For equipment, or component parts of equipment put into service during construction and operated by the Department, submit documents within ten days after acceptance.
C. Submit one copy of completed volumes 15 days prior to Substantial Completion. Draft copy shall be reviewed and returned after Substantial Completion, with Architect/Engineer comments. Revise content of document sets as required prior to final submission.
D. Submit two sets of revised final volumes in final form prior to final inspection.
E. Each Item of Equipment and Each System: Include description of unit or system, and component parts. Identify function, normal operating characteristics, and limiting conditions. Include performance curves, with engineering data and tests, and complete nomenclature and model number of replaceable parts.
F. Panelboard Circuit Directories: Provide electrical service characteristics, controls, and communications; typed and/or by label machine.
G. Include color coded wiring diagrams as installed.

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H. Operating Procedures: Include stall-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and special operating instructions.
I. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and troubleshooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
J. Include servicing and lubrication schedule, and list of lubricants required.
K. Include manufacturer's printed operation and maintenance instructions.
L. Include sequence of operation by controls manufacturer.
M. Include original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
N. Include control diagrams by controls manufacturer as installed.
O. Include Contractor's coordination drawings, with color coded piping diagrams as installed.
P. Include charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
Q. Include list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
R. Include test and balancing reports as specified in Section 01400.
S. Additional Requirements: As specified in individual product specification sections.
T. Include listing in Table of Contents for design data, with tabbed dividers and space for insertion of data.

9. SPARE PARTS AND MAINTENANCE PRODUCTS

A. Furnish spare parts, maintenance, and extra products in quantities specified in individual specification sections.
B. Deliver to Project site and place in location as directed by State; obtain receipt prior to final payment.

10. PRODUCT WARRANTIES AND PRODUCT BONDS

A. Obtain warranties and bonds executed in duplicate by responsible subcontractors, suppliers, and manufacturers, within ten days after Substantial Completion. All warranties start dates shall be the Substantial Completion Date, if project is phased all warranties to start at the date of Substantial Completion of each phase.
B. Execute and assemble transferable warranty documents and bonds from subcontractors, suppliers, and manufacturers.
C. Verify documents are in proper form, contain full information, and are notarized.
D. Co-execute submittals when required.
E. Include Table of Contents and assemble in three D side ring binder with durable plastic cover.
F. Submit prior to final Application for Payment.

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G. Time Of Submittals:
   a. For equipment or component parts of equipment put into service during construction with State's permission, submit documents within ten days after acceptance.
   b. Make other submittals within ten days after Date of Substantial Completion, prior to final Application for Payment.
   c. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within ten days after acceptance, listing date or acceptance as beginning or warranty or bond period.

11. MAINTENANCE SERVICE

A. Furnish service and maintenance of components indicated in specification sections during warranty period.
B. Examine system components at frequency consistent with reliable operation. Clean, adjust, and lubricate as required.
C. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by manufacturer of original component.
D. Do not assign or transfer maintenance service to agent or Subcontractor without prior written consent of the Department.

12. GUARANTEE OF WORK

A. Except as otherwise specified, all work shall be guaranteed by the Contractor against defects resulting from the use of inferior materials, equipment or workmanship for one (1) year from the Date of Substantial Completion of the work.
B. If, within any guarantee period, repairs or changes are required in connection with guaranteed work, which in the opinion of the Department, is rendered necessary as a result of the use of materials, equipment or workmanship which are inferior, defective, or not in accordance with the terms of the Contract shall, promptly upon receipt of notice from the Department and at his own expense:
   a. Place in satisfactory condition in every particular, all such guaranteed work, correct all defects therein.
   b. Make good all damage to the building or site, or equipment or contents thereof; which in the opinion of the Department is the result of the use of materials, equipment or workmanship which are inferior, defective, or not in accordance with the terms of the Contract.
   c. Make good any work or material, or the equipment and contents of said building or site disturbed in fulfilling any such guarantee.

C. In any case, wherein fulfilling the requirements of the Contract or of any guarantee, embraced in or required thereby, the Contractor disturbs any work guaranteed under

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another contract, he shall restore such disturbed work to a condition satisfactory to the Department and guarantee such restored work to the same extent as it was guaranteed under such other contracts.

D. If the Contractor, after notice, fails to proceed promptly to comply with the terms of the guarantee, the Department may have the defects corrected and the Contractor and his/her Surety shall be liable for all expense incurred.

E. All special guarantees applicable to definite parts of the work that may be stipulated in the Specifications or other papers forming a part of the Contract shall be subject to the term of this paragraph during the first year of the life of such special guarantee.

F. Failure to adhere to guarantee terms may result in suspension or barring from the prequalification list, or, alternatively, the requirement of' a Letter of Credit or other guaranty equal to a percentage of the Contract amount.

SECTION 4 – SUBMITTAL PROCEDURES

1. SUBMITTALS

A. Submittals shall be made for all materials to be used in construction of the project for review and acceptance of the Department PRIOR to installation of said materials.

B. The word "Submittals" shall include all products and materials that will become part of the finished product whether or not they are specified in the construction documents. This shall also include any shop drawings that need to be approved for any kind of layout of installation. (i.e.: Rebar, steel fabrication, etc...)

C. Shop drawings will be reviewed for the limited purpose of checking for conformance with information given and design concept expressed in the contract documents.

D. Contractor to indicate any special utility and/or electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances on shop drawings as applicable.

E. Transmit each submittal electronically via e-mail with a cover sheet and all pertinent information for review to the Department and the Department's Consultant simultaneously. Schedule submittals to expedite the Project.

F. Sequentially number transmittal forms and separate items logically. Mark revised submittals with original number and sequential alphabetic suffix.

G. Identify Project, Contractor, subcontractor and supplier; pertinent drawing and detail number, and specification section number, appropriate to submittal.

H. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with requirements of the Work and Contract Documents. Incomplete items or items submitted without the Contractor's signed stamp of approval thereon will be returned rejected.

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I. For each submittal for review, allow 14 days excluding delivery time to and from Architect, Engineer and the Department and Contractor.
J. The Department and the Department's Consultant will review submittals and coordinate return of same to the Contractor.
K. Identify variations from Contract Documents and product or system limitations that may be detrimental to successful performance of completed Work.
L. Allow space on submittals for Contractor and Architect or Engineer review stamps.
M. When revised for resubmission, identify changes made since previous submission.
N. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report inability to comply with requirements.
O. Work shall not begin until submittal items have been approved and returned to General Contractor by the Department.
P. Contractor shall keep a binder on site of all approved submittals for review by the Department and their consultants at any time during construction.

2. CONSTRUCTION PROGRESS SCHEDULES

A. Submit initial schedule at Preconstruction Meeting.
B. Submit revised Progress Schedules with each Application for Payment.
C. Distribute copies of revised schedules to Project site file, subcontractors, suppliers, and other concerned parties.
D. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.
E. Submit horizontal bar chart with separate line for each section of Work, identifying first work day of each week.

3. SAMPLES

A. Submit for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
B. Samples For Selection as specified in individual specification sections or as noted on plans:
    a. Submit to the Department for aesthetic, color, or finish selection.
    b. Submit samples of finishes from full range of manufacturers' standard colors, textures, and patterns for the Department and Architect/Engineer selection.
C. Submit samples to illustrate functional and aesthetic characteristics of Products, with integral parts and attachment devices, Coordinate sample submittals for interfacing work.
D. Include identification on each sample with full Project information.
E. Submit number of samples specified in individual specification sections; the Department will retain one sample and Architect or Engineer will retain one sample.
F. Reviewed samples which may be used in the Work are indicated in individual specification sections.

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4. TEST REPORTS

A. Submit for Department and Architect and Engineer's knowledge as required per plans or individual specification sections.

B. Submit test reports for information for limited purpose of assessing conformance with information given and design concept expressed in Contract Documents.

5. CERTIFICATES

A. When specified in individual specification sections, submit certification by manufacturer, installation/application subcontractor, or Contractor, to the Department in quantities specified for Product Data.

B. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

C. Certificates may be recent or previous test results on material or Product, but must be acceptable to the Department.

6. MANUFACTURER'S INSTRUCTIONS

A. When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, to the Department in quantities specified for Product Data.

B. Indicate special procedures, perimeter conditions requiring special attention and special environmental criteria required for application or installation.

7. CONSTRUCTION PHOTOGRAPHS

A. Provide photographs of site and construction throughout progress of Work.

B. Contractor will **NOT** take any photographs of military personnel or equipment.

C. Contractor will **NOT** use any project photographs for any reason other than stated in this section without prior written consent of the Department.

D. Each month submit photographs with Application for Payment.

E. Photographs: Submit digital images via email.

F. In addition to progress photos, contractor is to take four site photographs from differing directions and four interior photographs of each building area indicating relative progress of the work, five days maximum, prior to submitting.

G. Take photographs as evidence of existing project conditions.

H. Identify each image, identify name of Project, orientation of view, date and time of view.

SECTION 5 – TEMPORARY FACILITIES AND CONTROLS

1. TEMPORARY ELECTRICITY

A. The Department will pay cost of energy used. Exercise measures to conserve energy.

B. Provide flexible power cords as required for portable construction tools and

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equipment.

C. Provide main service disconnect and over-current protection at convenient location.
D. Permanent convenience receptacles may be utilized during construction.

2. TEMPORARY LIGHTING FOR CONSTRUCTION PURPOSES

A. Provide and maintain lighting for construction operations.
B. Provide and maintain lighting to interior work areas after dark for security purposes.
C. Provide branch wiring from power source to distribution boxes with lighting conductors, pigtails, and lamps for specified lighting levels.
D. Maintain lighting and provide routine repairs,
E. Permanent building lighting may be utilized during construction.

3. TEMPORARY HEATING

A. Existing building heating system may be used during construction. Exercise measures to conserve energy.

4. TEMPORARY COOLING

A. Existing building cooling system may be used during construction. Exercise measures to conserve energy.

5. TEMPORARY VENTILATION

A. Ventilate enclosed areas to achieve curing of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
B. Provide temporary fan units as required to maintain clean air for construction operations.

6. TELEPHONE SERVICE

A. Contractor may not use internal state/federal phone system.

7. WATER SERVICE

A. The Department will pay cost of temporary water used. Exercise measures to conserve energy. Utilize Department's existing water system, extend and supplement with temporary devices as needed to maintain specified conditions for construction operations.

8. TEMPORARY SANITARY FACILITIES

A. Provide and maintain required facilities and enclosures. Existing facility use is not permitted. Provide facilities at time of project mobilization.

9. FIELD OFFICES AND SHEDS

A. If the contractor decides to have a field office the location shall be coordinated with the department prior to placement. There is limited space available in the construction area for storage or a field office.

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B. Provide Portable or mobile buildings, or buildings constructed with floors raised above ground, securely fixed to foundations with steps and landings at entrance doors. Maintain during progress of Work; remove at completion of Work.
C. Storage Areas And Sheds: Size to storage requirements fill products of individual Sections, allowing for access and orderly provision for maintenance and for inspection of products.
D. Maintenance and Cleaning: Maintain approach walks free of mud, water, and snow.
E. Removal: At completion of Work remove buildings, foundations, utility services, and debris. Restore areas.

10. PARKING

A. Contractor and subcontractors to park in department directed spaces only.

11. PROGRESS CLEANING AND WASTE REMOVAL

A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in clean and orderly condition.
B. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing spaces.
C. Broom and vacuum clean interior areas prior to start of surface finishing and continue cleaning to eliminate dust.
D. Collect and remove waste materials, debris, and rubbish from site weekly and dispose off-site.
E. Elevator may be used for removal of construction waste. Contractor is responsible for maintaining cleanliness of said elevator as it is the only one in the building.

12. BARRIERS

A. Provide barriers to prevent unauthorized entry to construction areas to allow for the Department's use of the site and facility, and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
B. Protect non-owned vehicular traffic, stored materials, site and structures from damage.

13. ENCLOSURES AND FENCING

A. Interior Enclosures:
    a. Provide temporary partitions and ceilings as indicated on Drawings to separate work areas from Department occupied areas, to prevent penetration of dust and moisture into Department occupied areas, and to prevent damage to existing materials and equipment.
    b. Construction: Framing with reinforced polyethylene and plywood sheet materials with closed joints and scaled edges at intersections with existing surfaces.

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14. SECURITY

A. Security Program:
   a. Protect new Work and existing premises from theft, vandalism, and unauthorized entry.

B. Entry Control.
   a. Restrict entrance of persons and vehicles into Project site and existing facilities,
   b. Allow entrance only to authorized persons with proper identification.
   c. Maintain log of workers and visitors, make available to Department on request.
   d. Coordinate access of Department personnel to site in coordination with Department security forces.

C. Personnel Identification
   a. Maintain list of accredited persons, submit copy to Department on request.
   b. A driver's license or other acceptable positive identification will be required.

15. DUST CONTROL

A. Execute Work by methods to minimize raising dust from construction operations.
B. Provide positive means to prevent air-borne dust from dispersing into atmosphere.
C. After completion of work, clean all interior work surfaces.

16. POLLUTION CONTROL

A. Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations.
B. Comply with pollution and environmental control requirements of authorities having jurisdiction.

17. RODENT CONTROL

A. Provide methods, means, and facilities to prevent rodents from accessing or invading premises.

18. REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

A. Remove temporary utilities, equipment, facilities, materials, prior to Final Application for Payment.
B. Clean and repair damage caused by installation or use of temporary work.
C. Restore existing facilities used during construction to original condition.

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SECTION 6 – TEMPORARY FACILITIES AND CONTROLS

1. REQUISITION FOR PAYMENT

A. Submit one copy of each application on the AIA Application and Certificate for Payment G702 and Continuation sheet G703 or another document/form that has been previously approved by the Department.

B. Content and Format: Items on the Requisition for Payment shall be consistent with the items on the Proposal Form. Utilize the Schedule of Values as documentation for payment items.

C. Submit updated construction schedule with each Requisition for Payment.

D. Payment Period: Submit at intervals stipulated in the General Conditions.

E. Submit with transmittal letter to the attention of the project Architect/Engineer for review and approval.

F. Substantiating Data: When the Department requires substantiating information, submit data justifying dollar amounts in question.

2. SCHEDULE OF VALUES

A. Submit printed schedule on AIA Form G703 - Continuation Sheet for G702 or approved equal. (See item 1.A above)

B. Submit Schedule of Values within 15 days after date of issuance of Notice to Proceed. Failure to submit within specified time period will constitute Default of Contract.

C. Format: Utilize Table of Contents of these specifications. Identify each line item with number and title of major specification section. Identify bonds, insurance, general conditions, allowances etc.

D. Include a separate line item for closeout to include record drawings, owner's manuals and other pertinent information due to the Department.

E. Include a separate line item for the amount of each Allowance and Alternates specified in this section. For unit cost Allowances, identify quantities taken from Contract Documents multiplied by unit cost to achieve total for each item.

F. Revise schedule to list approved Change Orders, with each Requisition or Payment.

3. UNIT PRICES

A. Authority: Measurement methods are delineated in individual specification sections.

B. Measurement methods delineated in individual specification sections complement criteria of this section. In event of conflict, requirements of individual specification section govern,

C. Take measurements and compute quantities. Architect/Unit Quantities: Quantities and measurements indicated in Bid Form are for contract purposes only. Quantities and measurements supplied or placed in the Work shall determine payment

   a. When actual Work requires more or fewer quantities than those quantities indicated, provide required quantities at unit sum/prices contracted.

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D. Payment Includes: Full compensation for required labor, products, tools, equipment, plant and facilities, transportation, services, and incidentals; erection, application or installation of item of the Work; overhead and profit,
E. Final payment for Work governed by unit prices will be made on basis of actual measurements and quantities accepted by Architect/Engineer multiplied by unit sum/price for Work incorporated in or made necessary by the Work.
F. Measurement of Quantities: Measurement by Weight: Concrete reinforcing steel, rolled or formed steel or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.
G. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.
H. Measurement by Area: Measured by square dimension using mean length and width or radius.
I. Linear Measurement: Measured by linear dimension, at item centerline or mean chord.
J. Stipulated Sum/Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as completed item or unit of the Work.

4. CHANGE PROCEDURES

A. Submittals: Submit name of individual authorized to receive change documents and be responsible for informing others in Contractor's employ or Subcontractors of changes to the Work.
B. The Department will advise of minor changes in the Work not involving adjustment to Contract Sum/Price or Contract Time, or that may be necessary to carry out the work included in the Contract, by issuing Supplemental Instructions.
C. The Department may issue a Proposal Request including a detailed description of proposed changes with supplementary or revised Drawings and specifications, with or without a change in Contract Time for executing the change. The Contractor will prepare and submit estimate within ten days.
D. Contractor may propose changes by submitting a request for change(s) to the Department, describing proposed change and its full effect on the Work. Each request shall be a separate item and sequentially numbered. Include a statement describing reason for the change, and effect on Contract Sum/Price and Contract Time with full documentation and a statement describing effect on Work by separate or other Contractors.
E. Stipulated Sum/Price Change Order: Based on Proposal Request and Contractor's fixed price quotation or Contractor's request for Change Order as approved by the Department. Submit the breakdown of the following items on a Department Change Order Form for review and approval by the Department:
    a. The Contractor shall include the following indirect costs for work performed by the General Contractor as part of the Contractors' price:
        i. Worker's Compensation and Employee Liability.

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ii. Unemployment and Social Security Taxes.

b. In addition to the above indirect costs the General Contractor shall be allowed the following markups:
   i. Twenty percent (20%). Said twenty percent (20%) shall be all inclusive for overhead, supervision, and profit for Work performed by the General Contractor.
   ii. Ten percent (10%) on that part of work performed by all Subcontractors.
c. On any change that involves a net credit to the State, no allowance for overhead, supervision and profit shall be figured.
d. Contractor shall provide back-up information for all change order pricing.
e. Extension of Contract Time: State any requests for extension of Contract Time with justification for such a request.

F. Unit Price Change Order: For contract unit prices and quantities, the Change Order will be executed on fixed unit price basis. For unit costs or quantities of units of work which are not pre-determined, execute Work under Construction Change Directive. Changes in Contract Sum/Price or Contract Time will be computed as specified for Time and Material Change Order.
G. Construction Change Directive: The Department may issue a directive instructing the Contractor to proceed with changes in the Work, for subsequent inclusion in a Change Order. Document will describe changes in the Work, and designate method of determining any change in Contract Sum/Price or Contract Time. Promptly execute change. Failure to comply will result in Default of Contract.
H. Time and Material Change Order: Submit itemized account and supporting data within 10 days of completion of change. The Department will determine change allowable in Contract Sum/Price and Contract Time as provided in Contract Documents.
   a. Maintain detailed records of work done on Time and Material basis. Provide full information required for evaluation of proposed changes, and to substantiate costs for changes in the Work.

I. Execution of Change Orders: The Contractor is responsible for preparing and updating a spreadsheet log itemizing all Proposed Changes. A separate spreadsheet shall be completed for each Allowance Item. The spreadsheet shall include columns for Proposed Change Number, Description, Amount of Change, Status, and Approved Amounts. In addition, a current balance remaining shall be included. Change Orders will be processed per the following procedures:
   a. The Department reviews cost for Change in Work. If needed the Department will request additional items, back-up information, and request any possible changes or clarifications.
   b. Contractor can proceed with Change Order Work with direction from

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the Department.

c. Contractor shall not proceed with any work that will exceed the amount of Allowance remaining.

d. Fully signed and executed Change Order is issued by the Department to the Consultant and Contractor.

J. Correlation Of Contractor Submittals:

a. Promptly revise Schedule of Values and Application for Payment forms to record each authorized Change Order as separate line item and adjust Contract Sum/Price.

b. Promptly revise progress schedules to reflect change in Contract Time, revise sub-schedules to adjust times for other items of work affected by the change, and resubmit.

c. Promptly enter changes in Project Record Documents.

5. DEFECT ASSESSMENT

A. Any work or materials found to be defective or not in compliance with the plans and specifications in the determination of the Department shall be handled in the following manner.

B. Replace the Work, or portions or the Work, not conforming to specified requirements.

C. If, in the opinion of the Department, it is not practical to remove and replace the Work, the Department will direct appropriate remedy or adjust payment.

D. The defective Work may remain, but unit sum/price will be adjusted to new sum/price at discretion of the Department.

E. Defective Work will be repaired to instructions of and acceptance by the Department and unit sum/price will be adjusted to new sum/price at discretion of the Department.

F. Authority of the Department to assess defects and identify payment adjustments, is final.

G. Non-Payment For Rejected Products: Payment will not be made for rejected products for any of the following:

a. Products wasted or disposed of in a manner that is not acceptable.

b. Products determined as unacceptable before or after placement.

c. Products not completely unloaded from transporting vehicle.

d. Products placed beyond lines and levels of required Work.

e. Products remaining on hand after completion of the Work.

f. Loading, hauling, and disposing of rejected products.

6. ALTERNATES

A. Alternates quoted on Proposal Forms will be reviewed and accepted or rejected at the Department's discretion. Accepted Alternates will be identified in the Department - Contractor Agreement.

B. Coordinate related work and modify surrounding work.

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7. ALLOWANCES

A. Allowances: If included in the Contract, a stipulated amount of funding for use only upon the Department's instruction. An allowance will make money available for modifications and/or additions to contract items due to owner initiated changes, unforeseen conditions, for unknown, latent or differing existing conditions, for testing of hazardous materials or for the removal of hazardous materials, asbestos, lead, mercury, sealant etc. that are encountered by construction

B. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, equipment rental, overhead and profit will be included in Change Orders authorizing expenditure of funds from an Allowance. The cost of the bond for the amount of Allowance shall be included as part of the lump sum base bid.

C. Funds will be drawn from an Allowance only by Change Order. Contractor can proceed with Change Order Work against Allowance with direction from the Department. The Contractor shall not proceed with any work that will exceed the amount of Allowance remaining.

D. Notwithstanding the Contractor's objection, the Department may at any time reduce the funds remaining in the Allowance by Change Order.

E. At Final Payment of the Contract, funds remaining in the Allowance will be credited to the Department.

8. TESTING AND INSPECTION

A. Testing and Inspecting: Cost to engage testing and inspecting agency; execution of tests and inspecting; and reporting results are to be paid by the Contractor.

B. Testing as required by plan and specification shall be performed by an independent certified testing agency that may not be a subsidiary or employee of the Contractor.

C. Contractor shall make all testing information readily available to the Department for review before proceeding to the next phase of any such tested work.

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STATE OF NEW HAMPSHIRE

DEPARTMENT OF MILITARY AFFAIRS & VETERANS SERVICES
NEW HAMPSHIRE ARMY NATIONAL GUARD

NHARNG LEBANON READINESS CENTER – DOOR REPLACEMENT
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EXHIBIT C
CONTRACT PRICE

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SECTION 1 – CONTRACT PRICE

The Department of Military Affairs and Veterans Services will pay the Contractor a maximum total of $158,754.00. This amount shall not be exceeded without issuance of an amendment to this agreement and approval by the Governor and Executive Council of the State of New Hampshire.

The undersigned, having carefully examined the specifications for the referenced services, hereby proposes to furnish all materials and to perform all work for the above-captioned project in strict accordance with said specifications for the following price amount.

Contract price:	$ 143,754.00 .
Allowance for unforeseen conditions and/or owner-initiated changes:	$ 15,000.00
Total contract price:	$ 158,754.00 .

SECTION 2 – TERMS OF PAYMENT

A. The Department will manifest payments to the Contractor each calendar month on the basis of duly certified and approved estimate of the work performed during the preceding period. In preparing estimates, the material delivered on the site and any preparatory work done may be taken into consideration.

B. At least ten (10) days before the end of the billing period, the Contractor shall submit to the Department an itemized Requisition for Payment, supported by such data substantiating the Contractor's right to payment as the Department may require. If payment is to be made on account of materials or equipment not incorporated in the work, but delivered and suitably stored at the site, such payment shall be conditional upon submission by the Contractor of bills of sale or such other procedure satisfactory to the Department to establish the State's title to such materials or equipment or otherwise protect the State's interest including applicable insurance.

C. Immediately upon receipt of the Department Approved Monthly Requisition for Payment, the Contractor shall post same at the Contractor's Field Office or project site in a location where Subcontractors and Suppliers have clear access.

D. A 5% retainage of the value of the work performed on each partial estimate will be deducted and retained by the Department until after completion of the entire Contract in an acceptable manner. The balance remaining after the specified percentage has been retained, less all previous payments, will be certified for payment on each partial estimate.

E. Retainage will be released at Final Payment:
   a. After the Certificate of Substantial Completion has been issued, upon written application by the Contractor and with the approval of the Surety, the Department may release a portion of the retained amount.

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F. Payment for Material on Hand:
   a. Partial payments are made for materials to be incorporated in the Work, provided the materials meet the requirements of the Contract and are delivered on, or in the vicinity of, the Project site and stored in acceptable places. Partial payments will not exceed 90% of the Contract unit price for the item, or the amount supported by copies of paid invoices, freight bills, or other supporting documents required by the Department. The quantity paid will not exceed the corresponding quantity estimate in the Contract. No partial payment will be made on living or perishable materials until incorporated in the Work.
   b. When material payments exceed $100,000.00 or 10% of the total contract amount, whichever is less, notarized copies of paid invoices or copies of canceled checks for all such materials must be submitted to the Department within forty-five (45) days of the end date of the estimate on which the material allowance was paid. Failure to provide such documentation will result in the deduction of such material allowance from future estimates until documentation is provided.
   c. All material and work covered by partial payments made shall thereupon become the sole property of the Department, but this provision shall not be construed as relieving the Contractor of the sole responsibility of all materials and work upon which payments have been made or the restoration of any damaged work or as a waiver of the right of the State to require the fulfillment of all the terms of the Contract.

G. Payment for Material not on hand:
   a. The Department will not pay for products and or materials that have not been delivered and stored properly on the construction site.

H. Release of Claims:
   a. Neither the final payment nor any part of the retained percentage shall become due until the Contractor shall deliver a complete release of all claims arising under and by virtue of this Contract, including claims for all Subcontractors and suppliers of either materials or labor, plus a release of the Contract Bond and a statement that all Subcontractors and suppliers have been paid. The Department may pay any and all such claims, in whole or in part, and deduct the amount or amounts so paid from any partial or final payment.

I. Final Payment:
   a. Within thirty (30) days after acceptance, the Department shall pay to the Contractor the amount of the Contract less all prior payments. All prior payments and estimates, including those relative to extra work, shall be subject to correction by this payment, which is throughout this Contract called the Final Payment.
   b. Application for Final Payment received from the Contractor will be processed for payment not less than 60 days after project acceptance and final completion unless accompanied by a release of the Contract Bond. This payment shall be the amount

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of the Contract, amended by approved change orders, less previous payments minus liquidated damages, additional penalties, or holdbacks. All prior partial estimates and payments shall be subject to correction in the final estimate and payment.

J. Acceptance of Final Payment Constitutes Release:
   a. The acceptance of the Final Payment by the Contractor shall be and shall operate as a release to the Contractor of all claims and of all liability to the Department for all things done or furnished in connection with this work. No payment, however final or otherwise, shall operate to release the Contractor and its Sureties from any obligations under this Contract or the Contract Bond. Acceptance of Final Payment shall not impact any warrantees provided by the Contractor with respect to this project.

Invoices will be submitted to:

Department of Military Affairs and Veterans Services
Attn: State Business Office
1 Minuteman Way, Bldg. 1
Concord, NH 03301-5652

SECTION 3 – METHOD OF PAYMENT

A. Payment shall be made by mailing a bank draft or electronic funds transfer as established by submitting or updating an Alternate W-9 Form to the State of New Hampshire.

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STATE OF NEW HAMPSHIRE

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NEW HAMPSHIRE ARMY NATIONAL GUARD

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EXHIBIT D
ENVIRONMENTAL MANAGEMENT SYSTEM

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SECTION 1 – NOTICE FOR CONTRACTORS AND CONTRACTOR EMPLOYEES

1. OVERVIEW

The New Hampshire Army National Guard (NHARNG) has implemented an environmental Management System (eMS), in accordance with Executive Orders 13423 and 13514, to guide its operations in an environmentally sound manner. Under its eMS, the NHARNG has identified significant activities, products or services that can interact with the environment (known as aspects) and potential environmental impacts from its operations.

A. The significant environmental aspects are listed below:
   a. Energy Use
   b. Vehicle Travel (fleet) Between Workstations

B. These significant aspects and their associated impacts are closely monitored by the NHARNG. Further, the NHARNG is tracking the success of the implementation plans established to achieve the NHARNG's objectives. For the purposes of this notice, applicability is limited to those actions that the contractor or subsequent employees are likely to perform on NHARNG properties.

C. The primary purpose of this notice is to communicate the three basic tenets of the NHARNG's eMS policy:
   a. eMS (ISO 14001) is the management system the NHARNG uses to implement the Adjutant General's Environmental Policy.
   b. The eMS Environmental Policy commits the NHARNG to comply with environmental laws and regulations, to prevent pollution and to promote continual improvement of the eMS.
   c. Contractors are responsible for knowing the environmental impacts of their services and must understand the management requirements for any activities that could affect any of NHARNG's significant aspects, or that could result in potential environmental impacts.

2. ENERGY USE

The NHARNG is committed to reducing its consumption of energy. Reducing energy consumption may be realized by turning off electrical equipment when not in use, or reducing heating temperatures/increasing cooling temperatures, using alternative fuels (if available, such as E85 or biodiesel), etc. Contracts that include the use or installation of equipment will seek the most energy-efficient technology within the scope of the contract.

3. VEHICLE TRAVEL (FLEET) BETWEEN WORKSTATIONS

The NHARNG is committed to preventing pollution through monitoring of Federal GSA Fleet vehicle usage. Usage of fleet vehicles by contractors is prohibited.

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4. CONTACT INFORMATION

The Department of Military Affairs and Veterans Services Environmental Staff (603) 227-1439

5. RESOURCES PROVIDED UPON CONTRACTOR REQUEST

NHARNG Integrated Cultural Resources Management Plan (ICRMP)
NHNG Green Procurement Plan
Facility Specific Integrated Contingency Plans (ICPs); established for the State Military Reservation, Manchester RC / FMS, Army Aviation Support Facility (AASF)
NHARNG Hazardous Waste Management Plan

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PROJECT MANUAL
TECHNICAL SPECIFICATIONS

EXTERIOR DOOR UPGRADES
LEBANON READINESS CENTER

174 HEATER ROAD
LEBANON, NEW HAMPSHIRE 03766

DEPARTMENT OF MILITARY AFFAIRS AND VERTERANS SERVICES

1 MINUTEMAN WAY
CONCORD, NEW HAMPSHIRE 03301

ISSUED FOR CONSTRUCTION

TTG PROJECT NO. 5474

JUNE 10, 2026

LICENSED ARCHITECT
JONATHAN W. SMITH
NO. 3418

TURNER GROUP

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EXTERIOR DOOR UPGRADES
LEBANON READINESS CENTER
174 Heater Road, Lebanon NH 03766

DEPARTMENT OF MILITARY AFFAIRS AND VETERANS SERVICES
1 Minuteman Way, Concord NH 03301

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06 10 00 ROUGH CARPENTRY

DIVISION 07 - THERMAL AND MOISTURE PROTECTION
07 21 00 THERMAL INSULATION
07 92 00 JOINT SEALANTS

DIVISION 08 - OPENINGS
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CONSTRUCTION DRAWINGS

COVER SHEET
SHEET D1.1 DEMOLITION FLOOR PLAN
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SHEET A2.1 DOOR SCHEDULE & DETAILS

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SECTION 06 10 00 - ROUGH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Wood products.
2. Wood-preservative-treated lumber.
3. Fire-retardant-treated lumber.
4. Dimension lumber framing.
5. Miscellaneous lumber.
6. Plywood backing panels.

B. Related Requirements:

1. Section 061533 "Wood Patio Decking" for elevated decks, including support framing.
2. Section 061600 "Sheathing" for sheathing, subflooring, and underlayment.
3. Section 061753 "Shop-Fabricated Wood Trusses" for wood trusses made from dimension lumber.
4. Section 064013 "Exterior Architectural Woodwork" for exterior wood stairs and railings.
5. Section 064023 "Interior Architectural Woodwork" for interior wood stairs and railings.
6. Section 313116 "Termite Control" for site application of borate treatment to wood framing.

1.2 DEFINITIONS

A. Boards or Strips: Lumber of less than **2 inches nominal** size in least dimension.

B. Dimension Lumber: Lumber of **2 inches nominal** size or greater but less than **5 inches nominal** size in least dimension.

C. Exposed Framing: Framing not concealed by other construction.

D. Lumber grading agencies, and abbreviations used to reference them, include the following:

1. NeLMA: Northeastern Lumber Manufacturers' Association.
2. NLGA: National Lumber Grades Authority.
3. SPIB: The Southern Pine Inspection Bureau.
4. WCLIB: West Coast Lumber Inspection Bureau.
5. WWPA: Western Wood Products Association.

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1.3 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Include physical properties of treated materials based on testing by a qualified independent testing agency.
3. For fire-retardant treatments, include physical properties of treated lumber both before and after exposure to elevated temperatures, based on testing by a qualified independent testing agency in accordance with ASTM D5664.
4. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.

1.4 INFORMATIONAL SUBMITTALS

A. Material Certificates:

1. For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.
2. For preservative-treated wood products. Indicate type of preservative used and net amount of preservative retained.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Stack wood products flat with spacers beneath and between each bundle to provide air circulation. Protect wood products from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 - PRODUCTS

2.1 WOOD-PRESERVATIVE-TREATED LUMBER

A. Preservative Treatment by Pressure Process: AWPA U1, Use categories as follows:

1. UC1: Interior construction not in contact with ground or subject to moisture. Include the following items:

a. Wood sills, sleepers, blocking, furring, and similar concealed members in contact with masonry or concrete.
b. Wood framing and furring attached directly to the interior of below-grade

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exterior masonry or concrete walls.
c. Wood floor plates that are installed over concrete slabs-on-grade.
d. Wood furniture.
e. Wood millwork.

2. UC2: Interior construction not in contact with ground but may be subject to moisture. Include all rough carpentry.

a. Wood sills, sleepers, blocking, furring, and similar concealed members in contact with masonry or concrete.
b. Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.
c. Wood floor plates that are installed over concrete slabs-on-grade.
d. Wood millwork.
e. Wood flooring.

3. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium. Do not use inorganic boron (SBX) for sill plates.
4. For exposed items indicated to receive a stained or natural finish, chemical formulations are not to require incising, contain colorants, bleed through, or otherwise adversely affect finishes.
5. After treatment, redry dimension lumber to 19 percent maximum moisture content.

B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or that does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.

D. Application: Treat all rough carpentry unless otherwise indicated.

1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
2. Wood sills, sleepers, blocking, furring, and similar concealed members in contact with masonry or concrete.
3. Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.
4. Wood framing members that are less than **18 inches** above the ground in crawlspaces or unexcavated areas.
5. Wood floor plates that are installed over concrete slabs-on-grade.

2.2 MISCELLANEOUS LUMBER

A. Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:

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1. Blocking.
2. Nailers.
3. Furring.

B. Dimension Lumber Items: Construction or No. 2 grade lumber of any of the following species:

1. Spruce-pine-fir; NLGA.
2. Northern species; NLGA.
3. Eastern softwoods; NeLMA.

C. Concealed Boards: 19 percent maximum moisture content and any of the following species and grades:

1. Hem-fir or hem-fir (north); Construction or No. 2 Common grade; NLGA, WCLIB, or WWPA.
2. Eastern softwoods; No. 2 Common grade; NeLMA.
3. Northern species; No. 2 Common grade; NLGA.

D. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.

E. For furring strips for installing plywood or hardboard paneling, select boards with no knots capable of producing bent-over nails and damage to paneling.

2.3 PLYWOOD BACKING PANELS

A. Equipment Backing Panels: Plywood, DOC PS 1, Exterior, C-C Plugged, fire-retardant treated, in thickness indicated or, if not indicated, not less than 3/4-inch nominal thickness.

2.4 FASTENERS

A. General: Fasteners are to be of size and type indicated and comply with requirements specified in this article for material and manufacture. Provide nails or screws, in sufficient length, to penetrate not less than **1-1/2 inches** into wood substrate.

1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A153/A153M or ASTM F2329.

B. Nails, Brads, and Staples: ASTM F1667.

C. Power-Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.

D. Post-Installed Anchors: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC01 as appropriate for the substrate.

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2.5 MISCELLANEOUS MATERIALS

A. Sill-Sealer Gaskets:

1. Closed-cell neoprene foam, **1/4 inch** thick, selected from manufacturer's standard widths to suit width of sill members indicated.

B. Flexible Flashing: Composite, self-adhesive, flashing product consisting of a pliable, butyl rubber compound, bonded to a high-density polyethylene film, aluminum foil, or spunbonded polyolefin to produce an overall thickness of not less than **0.025 inch**.

C. Adhesives for Gluing Furring and Sleepers to Concrete or Masonry: Formulation complying with ASTM D3498 that is approved for use indicated by adhesive manufacturer.

D. Water-Repellent Preservative: NWWDA-tested and -accepted formulation containing 3-iodo-2-propynyl butyl carbamate, combined with an insecticide containing chloropyrifos as its active ingredient.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.

B. Set work to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry accurately to other construction. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.

C. Install plywood backing panels by fastening to studs; coordinate locations with utilities requiring backing panels. Install fire-retardant-treated plywood backing panels with classification marking of testing agency exposed to view.

D. Install metal framing anchors to comply with manufacturer's written instructions. Install fasteners through each fastener hole.

E. Install sill sealer gasket to form continuous seal between sill plates and foundation walls.

F. Do not splice structural members between supports unless otherwise indicated.

G. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.

1. Provide metal clips for fastening gypsum board or lath at corners and intersections where framing or blocking does not provide a surface for fastening edges of panels. Space clips not more than **16 inches** o.c.

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H. Sort and select lumber so that natural characteristics do not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.

I. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.

1. Use inorganic boron for items that are continuously protected from liquid water.
2. Use copper naphthenate for items not continuously protected from liquid water.

J. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.

K. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:

1. Table 2304.10.1, "Fastening Schedule," in ICC's International Building Code (IBC).
2. ICC-ES evaluation report for fastener.

L. Use steel common nails unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood. Drive nails snug but do not countersink nail heads unless otherwise indicated.

3.2 INSTALLATION OF WOOD BLOCKING AND NAILERS

A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.

B. Attach wood blocking to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

C. Attach wood roofing nailers securely to substrate to resist the designed outward and upward wind loads indicated on Drawings and in accordance with ANSI/SPRI ED-1, Tables A6 and A7.

D. Provide permanent grounds of dressed, pressure-preservative-treated, key-beveled lumber not less than **1-1/2 inches** wide and of thickness required to bring face of ground to exact thickness of finish material. Remove temporary grounds when no longer required.

3.3 PROTECTION

A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered

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borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

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SECTION 07 21 00 - THERMAL INSULATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Mineral-wool blanket insulation.
2. Accessories.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of specified product.

B. See Division 01 for contract BABA compliance requirements. Provide documentation with the submittal package confirming BABA compliance of materials and assemblies. Submittals without BABA compliance documentation will not be reviewed and will be returned as INCOMPLETE. Compliance with BABA requirements is the responsibility of the contractor / supplier at time of submittals / purchase.

1.3 DELIVERY, STORAGE, AND HANDLING

A. Protect insulation materials from physical damage and from deterioration due to moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.

B. Protect foam-plastic board insulation as follows:

1. Do not expose to sunlight except to necessary extent for period of installation and concealment.
2. Protect against ignition at all times. Do not deliver foam-plastic board materials to Project site until just before installation.
3. Quickly complete installation and concealment of foam-plastic board insulation in each area of construction.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Surface-Burning Characteristics: Maximum flame-spread and smoke-developed indexes less than Class A, 25 and 450 when tested in accordance with ASTM E84.

B. Fire-Resistance Ratings: Comply with ASTM E119 or UL 263; testing by a qualified

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testing agency. Identify products with appropriate markings of applicable testing agency.

1. Indicate design designations from UL's "Fire Resistance Directory" or from listings of another qualified testing agency.

C. Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly.

D. Labeling: Provide identification of mark indicating R-value of each piece of insulation **12 inches** and wider in width.

E. Thermal-Resistance Value (R-Value): 3.4 R-value per inch in accordance with ASTM C518.

F. Verify insulation complies with VOC emissions evaluation criteria.

G. Verify adhesive complies with VOC emissions evaluation criteria.

2.2 MINERAL-WOOL BLANKET INSULATION

A. Mineral-Wool Blanket Insulation, Unfaced: ASTM C665, Type I; complying with ASTM E136 for combustion characteristics.

2.3 ACCESSORIES

A. Insulation for Miscellaneous Voids:

1. Mineral-wool loose fill insulation: ASTM C665, Type I,
2. Spray-Applied Polyurethane Foam Insulation: ASTM C1029, Type II, closed cell, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, in accordance with ASTM E84.

B. Miscellaneous Application Accessories:

1. Detailing Foam Insulation for Voids: Urethane foam complying with AAMA 812, low expansion pressure suitable for filling insulation gaps and voids adjacent to openings to protect against water, air, and sound intrusion.

PART 3 - EXECUTION

3.1 PREPARATION

A. Clean substrates of substances that are harmful to insulation, including removing projections capable of puncturing insulation or vapor retarders, or those that interfere with insulation attachment.

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3.2 INSTALLATION, GENERAL

A. Comply with insulation manufacturer's written instructions applicable to products, applications and applicable codes.

B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.

C. Install insulation with manufacturer's R-value label exposed after insulation is installed.

D. Extend insulation to envelop entire area to be insulated. Fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

E. Provide sizes to fit applications and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units unless multiple layers are otherwise shown or required to make up total thickness or to achieve R-value.

3.3 INSTALLATION OF INSULATION IN FRAMED CONSTRUCTION

A. Miscellaneous Voids: Install insulation in miscellaneous voids and cavity spaces where required to prevent gaps in insulation using the following materials:

1. Mineral-wool Insulation: Compact to approximately 40 percent of normal maximum volume equaling a density of approximately 2.5 lb/cu. ft.
2. Detailing Foam Insulation for Voids: Apply in accordance with manufacturer's written instructions.

3.4 PROTECTION

A. Protect installed insulation from damage due to harmful weather exposures, physical abuse, and other causes.

B. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

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SECTION 07 92 00 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Silicone joint sealants.
2. Nonstaining silicone joint sealants.
3. Latex joint sealants.

1.2 ACTION SUBMITTALS

A. Product Data:

1. Silicone joint sealants.
2. Nonstaining silicone joint sealants.
3. Latex joint sealants.

B. See Division 01 for contract BABA compliance requirements. Provide documentation with the submittal package confirming BABA compliance of materials and assemblies. Submittals without BABA compliance documentation will not be reviewed and will be returned as INCOMPLETE. Compliance with BABA requirements is the responsibility of the contractor / supplier at time of submittals / purchase

C. Samples for Initial Selection: Manufacturer's standard color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.

D. Joint-Sealant Schedule: Include the following information:

1. Joint-sealant application, joint location, and designation.
2. Joint-sealant manufacturer and product name.
3. Joint-sealant formulation.
4. Joint-sealant color.

1.3 CLOSEOUT SUBMITTALS

A. Installer's special warranties.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Authorized representative who is trained and approved by manufacturer.

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1.5 MOCKUPS

A. Install sealant in mockups of assemblies specified in other Sections that are indicated to receive joint sealants specified in this Section. Use materials and installation methods specified in this Section.

1.6 FIELD CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:

1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F.
2. When joint substrates are wet.
3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.7 WARRANTY

A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.

1. Warranty Period: Two years from date of Substantial Completion.

B. Special warranties specified in this article exclude deterioration or failure of joint sealants from the following:

1. Movement of the structure caused by stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression.
2. Disintegration of joint substrates from causes exceeding design specifications.
3. Mechanical damage caused by individuals, tools, or other outside agents.
4. Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain joint sealants from single manufacturer for each sealant type.

B. Products listed in this specification comply with BABA (Build America, Buy America Act) at the time the specification was written. Compliance with BABA requirements is the responsibility of the supplier at time of submittals / purchase.

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2.2 JOINT SEALANTS, GENERAL

A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.3 SILICONE JOINT SEALANTS

A. Silicone, S, NS, 50, NT (TYPE 1): Single-component, nonsag, plus 50 percent and minus 50 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 50, Use NT.

1. Basis-of-Design Product: Subject to compliance with requirements, provide The Dow Corporation; Dowsil 791 Silicone Weatherproofing Sealant or comparable product by one of the following:

a. GE Construction Sealants; Momentive Performance Materials Inc.
b. Pecora Corporation
c. Sika Corporation - Building Components
d. Tremco

B. Silicone, S, NS, 100/50, T, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 100/50, Uses T and NT.

1. Basis-of-Design Product: Subject to compliance with requirements, provide The Dow Chemical Company; Dowsil 790 Silicone Building Sealant or comparable product by one of the following:

a. Pecora Corporation
b. The Dow Chemical Company
c. Sika Corporation
d. Tremco

2.4 NONSTAINING SILICONE JOINT SEALANTS

A. Nonstaining Joint Sealants: No staining of substrates when tested in accordance with ASTM C1248.

2.5 POLYURETHANE FOAM SEALANT

A. Polyurethane Foam Sealant: ASTM C1620, minimally expanding, low pressure-build, flexible polyurethane foam.

1. Basis-of-Design Product: Subject to compliance with requirements, provide

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Dupont, Great Stuff Pro Window & Door Polyurethane Foam Sealant or comparable product by one of the following:

a. DAP Global Inc.
b. Henkel Corporation

2. Pressure-build: Conform to AAMA 812-04.
3. UL Classification: UL 723.
4. Compressive Strength, parrallel to rise: 3.0 psi
5. Density: ASTM D2126, 1.2 pcf
6. Flame Spread / Smoke Developing: ASTM E84, 10/20
7. Open Cell Content: ASTM< D6226, < 75%

2.6 JOINT-SEALANT BACKING

A. Cylindrical Sealant Backings: ASTM C1330, or any of the preceding types, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

B. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.7 MISCELLANEOUS MATERIALS

A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.

B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.

C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

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3.2 PREPARATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:

1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:

    a. Concrete.
    b. Masonry.

3. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:

    a. Metal.
    b. Glass.

B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.

C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.

B. Sealant Installation Standard: Comply with recommendations in ASTM C1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

C. Install sealant backings of type indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.

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1. Do not leave gaps between ends of sealant backings.
2. Do not stretch, twist, puncture, or tear sealant backings.
3. Remove absorbent sealant backings that have become wet before sealant application, and replace them with dry materials.

D. Install sealants using proven techniques that comply with the following and at the same time backings are installed:

1. Place sealants so they directly contact and fully wet joint substrates.
2. Completely fill recesses in each joint configuration.
3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

E. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants in accordance with requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.

1. Remove excess sealant from surfaces adjacent to joints.
2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
3. Provide concave joint profile in accordance with Figure 8A in ASTM C1193 unless otherwise indicated.

3.4 FIELD QUALITY CONTROL

A. Tests and Inspections:

1. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:

a. Extent of Testing: Test completed and cured sealant joints as follows:

1) Perform 3 tests for the first 25 feet of joint length for each kind of sealant and joint substrate.

b. Test Method: Test joint sealants in accordance with Method A, Tail Procedure, in ASTM C1521.

1) For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.

c. Inspect tested joints and report on the following:

1) Whether sealants filled joint cavities and are free of voids.
2) Whether sealant dimensions and configurations comply with specified requirements.
3) Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull

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distance used to test each kind of product and joint substrate. Compare these results to determine if adhesion complies with sealant manufacturer's field-adhesion hand-pull test criteria.

d. Record test results in a field-adhesion-test log. Include dates when sealants were installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion results and percent elongations, sealant material, sealant configuration, and sealant dimensions.
e. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.

2. Evaluation of Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

B. Prepare test and inspection reports.

3.5 CLEANING

A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.6 PROTECTION

A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out, remove, and repair damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

3.7 SEALANT SCHEDULE

A. Exterior joints in cementitious vertical surfaces and horizontal nontraffic surfaces.

1. Joint Locations:

a. Expansion and control joint in unit masonry, precast concrete panel joints, Exterior Insulation and Finish System (EIFS) joints.
b. Perimeter joints between materials listed above and frames of doors, windows, and louvers.

2. Joint Sealant: Silicone, non-staining, S, NS, 100/50, NT.

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3. Joint Sealant Color: As selected by Architect from manufacturer's full range of colors.

B. Spray Polyurethane Foam:

1. Joint Locations: Air seal low-expanding foam to fill the gap around door and window installations.
2. Joint Sealant: Polyurethane Foam Sealant.

C. Interior paintable sealant in vertical and horizontal nontraffic joints.

1. Joint Locations: Non-moving , paintable joints.
2. Joint Sealant: Acrylic Latex Type OP, Grade NF.

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SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Standard and custom hollow metal doors and frames.
2. Steel sidelight, borrowed lite and transom frames.
3. Light frames and glazing installed in hollow metal doors.

B. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 06 Section 06 10 00 "Rough Carpentry".
3. Division 08 Section 08 88 53 "Glazing".
4. Division 08 Section 08 71 00 "Door Hardware".
5. Division 09 Sections 09 91 14 "Exterior Painting".

C. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI/SDI A250.8 - Recommended Specifications for Standard Steel Doors and Frames.
2. ANSI/SDI A250.4 - Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors, Frames, Frames Anchors and Hardware Reinforcing.
3. ANSI/SDI A250.6 - Recommended Practice for Hardware Reinforcing on Standard Steel Doors and Frames.
4. ANSI/SDI A250.10 - Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames.
5. ANSI/SDI A250.11 - Recommended Erection Instructions for Steel Frames.
6. ASTM A1008 - Standard Specification for Steel Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
7. ASTM A653 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
8. ASTM A924 - Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
9. SDI-113 Standard Practice for Determining the Steady-State Thermal Transmittance of Steel Door & Frame Assemblies.
10. ASTM C 1363 - Standard Test Method for Thermal Performance of Building Assemblies by Means of a Hot Box Apparatus.
11. ASTM C1199 - Standard Test Method for Measuring the Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods

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12. ASTM E1423 - Practice for Determining Steady State Thermal Transmittance of Fenestration Systems.
13. ANSI/BHMA A156.115 - Hardware Preparation in Steel Doors and Frames.
14. ANSI/SDI 122 - Installation and Troubleshooting Guide for Standard Steel Doors and Frames.
15. ANSI/NFPA 80 - Standard for Fire Doors and Fire Windows; National Fire Protection Association.
16. ANSI/NFPA 105: Standard for the Installation of Smoke Door Assemblies.
17. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; National Fire Protection Association.
18. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
19. UL 1784 - Standard for Air Leakage Tests of Door Assemblies.
20. UL 752 – Standard for Bullet-Resisting Equipment.

1.3 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, hardware reinforcements, profiles, anchors, fire-resistance rating, and finishes.

B. See Division 01 for contract BABA compliance requirements. Provide documentation with the submittal package confirming BABA compliance of materials and assemblies. Submittals without BABA compliance documentation will not be reviewed and will be returned as INCOMPLETE. Compliance with BABA requirements is the responsibility of the contractor / supplier at time of submittals / purchase.

C. Maintenance manual must be provided for tornado/hurricane storm shelter impact protective systems.

D. Door hardware supplier is to furnish templates, template reference number and/or physical hardware to the steel door and frame supplier in order to prepare the doors and frames to receive the finish hardware items.

E. Shop Drawings: Include the following:

1. Elevations of each door design.
2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
4. Locations of reinforcement and preparations for hardware.
5. Details of anchorages, joints, field splices, and connections.
6. Details of accessories.
7. Details of moldings, removable stops, and glazing.
8. Details of conduit and preparations for power, signal, and control systems.

F. Samples for Verification:

1. Samples are only required by request of the architect and for manufacturers that are not current members of the Steel Door Institute.

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G. Product Test Reports: For each type of security door and frame assembly including vision and sidelites, for tests performed by a qualified testing agency.

1.4 QUALITY ASSURANCE

A. Source Limitations: Obtain hollow metal doors and frames through one source from a single manufacturer wherever possible.

B. Quality Standard: In addition to requirements specified, furnish SDI-Certified manufacturer products that comply with ANSI/SDI A250.8, latest edition, "Recommended Specifications for Standard Steel Doors and Frames".

C. Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL10C (neutral pressure at 40" above sill) or UL 10C.

1. Oversize Fire-Rated Door Assemblies Construction: For units exceeding sizes of tested assemblies, attach construction label certifying doors are built to standard construction requirements for tested and labeled fire rated door assemblies except for size.
2. Temperature-Rise Limit: Where indicated and at vertical exit enclosures (stairwell openings) and exit passageways, provide doors that have a maximum transmitted temperature end point of not more than 450 deg F (250 deg C) above ambient after 30 minutes of standard fire-test exposure.
3. Smoke Control Door Assemblies: Comply with NFPA 105.

a. Smoke "S" Label: Doors to bear "S" label, and include smoke and draft control gasketing applied to frame and on meeting stiles of pair doors.

D. Fire-Rated, Borrowed-Light Frame Assemblies: Assemblies complying with NFPA 80 that are listed and labeled, by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire-protection ratings indicated, based on testing according to NFPA 257. Provide labeled glazing material.

E. Pre-Submittal Conference: Conduct conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier, Installer, and Contractor to review proper methods and procedures for installing hollow metal doors and frames and to verify installation of electrical knockout boxes and conduit at frames with electrified or access control hardware.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project site storage. Do not use non-vented plastic.

B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.

C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.

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1. Provide minimum 1/4-inch space between each stacked door to permit air circulation. Door and frames to be stacked in a vertical upright position.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.7 COORDINATION

A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.

B. Warranty includes installation and finishing that may be required due to repair or replacement of defective doors.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide steel doors and frames from a SDI Certified manufacturer:

1. CECO Door Products (C).
2. Curries Company (CU).
3. Steelcraft, an Allegion Company (SC)
4. Armortex
5. Total Security Solutions

B. Products listed in this specification comply with BABA (Build America, Buy America Act) at the time the specification was written. Compliance with BABA requirements is the responsibility of the supplier at time of submittals / purchase.

2.2 MATERIALS

A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B; suitable for exposed applications.

B. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

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C. Frame Anchors: ASTM A 653/A 653M, Commercial Steel (CS), Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

2.3 HOLLOW METAL DOORS

A. General: Provide 1-3/4 inch doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8 and ANSI/NAAMM HMMA 867.

B. Exterior Doors: Face sheets fabricated of commercial quality hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:

1. Design: Flush panel.
2. Core Construction: Manufacturer's standard polystyrene. Where indicated, provide doors fabricated as thermal-rated assemblies with a minimum R-value of 2.8 or better.
3. Core Construction: Manufacturer's thermally enhanced QMax core. Where indicated provide doors fabricated as thermal-rated assemblies with a minimum thermal rating of 0.35 BTU/hr-ft2-F.
4. Level/Model: Level 3 and Physical Performance Level A (Extra Heavy Duty), Minimum 16 gauge (0.053-inch - 1.3-mm) thick steel, Model 2.
5. Top and Bottom Edges: Reinforce tops and bottoms of doors with a continuous steel channel not less than 16 gauge, extending the full width of the door and welded to the face sheet. Doors with an inverted top channel to include a steel closure channel, screw attached, with the web of the channel flush with the face sheets of the door. Plastic or composite channel fillers are not acceptable.
6. Hinge Reinforcement: Minimum 7 gauge (3/16") plate 1-1/4" x 9" or minimum 14 gauge continuous channel with pierced holes, drilled and tapped.
7. Hardware Reinforcements: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.

C. Manufacturers Basis of Design:

1. Curries Company (CU) - QMax Core - 707 Series.

2.4 SPECIAL FUNCTION HOLLOW METAL DOORS

A. Bullet Resistant Door Assemblies: Subject to the same compliance standards and requirements as standard hollow metal doors, provide manufacturer's custom bullet resistant internal door construction tested in accordance with U.L. Test Standard 752. Fabricate with concealed armor plate construction, 1-3/4" thickness, in the steel gauge required to meet indicated ballistic rating. Furnish as a complete unit with factory welded frame and approved listed hardware.

1. Provide bullet resistant assemblies with UL752 Level Rating of 1 through 10 as indicated.

2. Manufacturers Basis of Design:
   a. Curries Company (CU) - 737 Series.

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2.5 HOLLOW METAL FRAMES

A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.

B. Thermal Break Frames: Subject to the same compliance standards and requirements as standard hollow metal frames. Tested for thermal performance in accordance with NFRC 102, and resistance to air infiltration in accordance with NFRC 400. Where indicated provide thermally broken frame profiles available for use in both masonry and drywall construction. Fabricate with 1/16" positive thermal break and integral vinyl weatherstripping.

C. Exterior Frames: Fabricated of hot-dipped zinc coated steel that complies with ASTM A 653/A 653M, Coating Designation A60.

1. Fabricate frames with mitered or coped corners. Profile as indicated on drawings.
2. Frames: Minimum 14 gauge (0.067-inch -1.7-mm) thick steel sheet.
3. Manufacturers Basis of Design:

    a. Curries Company (CU) - M CM Series.
    b. Curries Company (CU) - Mercury 3 Thermal Break TQ Series.

D. Fire rated frames: Fabricate frames in accordance with NFPA 80, listed and labeled by a qualified testing agency, for fire-protection ratings indicated.

E. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 Table 4 with reinforcement plates from same material as frames.

2.6 SPECIAL FUNCTION HOLLOW METAL FRAMES

A. Bullet Resistant Frame Assemblies: Subject to the same compliance standards and requirements as standard hollow metal frames, provide where indicated manufacturer tested bullet resistance frame as part of a complete door and frame system. Fabricate bullet resistance frames from minimum 12 gauge steel with fully welded construction.

1. Manufacturers Basis of Design:

    a. Curries Company (CU) - 737 Series Frames.

2.7 FRAME ANCHORS

A. Jamb Anchors:

1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, formed from A60 metallic coated material, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
2. Stud Wall Type: Designed to engage stud and not less than 0.042 inch thick.
3. Compression Type for Drywall Slip-on (Knock-Down) Frames: Adjustable compression anchors.

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B. Floor Anchors: Floor anchors to be provided at each jamb, formed from A60 metallic coated material, not less than 0.042 inches thick.

C. Mortar Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.8 LIGHT OPENINGS AND GLAZING

A. Stops and Moldings: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints at fabricator's shop. Fixed and removable stops to allow multiple glazed lites each to be removed independently. Coordinate frame rabbet widths between fixed and removable stops with the type of glazing and installation indicated.

B. Moldings for Glazed Lites in Doors and Loose Stops for Glazed Lites in Frames: Minimum 20 gauge thick, fabricated from same material as door face sheet in which they are installed.

C. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch (16 mm) high unless otherwise indicated. Provide fixed frame moldings and stops on outside of exterior and on secure side of interior doors and frames.

D. Preformed Metal Frames for Light Openings: Manufacturer's standard frame formed of 0.048-inch-thick, cold rolled steel sheet; with baked enamel or powder coated finish; and approved for use in doors of fire protection rating indicated. Match pre-finished door paint color where applicable.

2.9 ACCESSORIES

A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.

B. Grout Guards: Formed from same material as frames, not less than 0.016 inches thick.

2.10 FABRICATION

A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. When shipping limitations so dictate, frames for large openings are to be fabricated in sections for splicing or splining in the field by others.

B. Tolerances: Fabricate hollow metal work to tolerances indicated in ANSI/SDI A250.8.

C. Hollow Metal Doors:

1. Exterior Doors: Provide optional weep-hole openings in bottom of exterior doors to permit moisture to escape where specified.
2. Glazed Lites: Factory cut openings in doors with applied trim or kits to fit. Factory install glazing where indicated.
3. Astragals: Provide overlapping astragals as noted in door hardware sets in Division 08 Section "Door Hardware" on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted.

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4. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge strap for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".

D. Hollow Metal Frames:

1. Shipping Limitations: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
2. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.

    a. Welded frames are to be provided with two steel spreaders temporarily attached to the bottom of both jambs to serve as a brace during shipping and handling. Spreader bars are for bracing only and are not to be used to size the frame opening.

3. Stop Height: Provide minimum stop height of 1.5 inch for Special Function hollow metal door openings and minimum stop height of 1-1/4 inches in security glazing or security panel openings unless otherwise indicated.
4. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
5. High Frequency Hinge Reinforcement: Provide high frequency hinge reinforcements at door openings 48-inches and wider with mortise butt type hinges at top hinge locations.
6. Continuous Hinge Reinforcement: Provide welded continuous 12 gauge straps for continuous hinges specified in hardware sets in Division 08 Section "Door Hardware".
7. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated for removable stops, provide security screws at exterior locations.
8. Mortar Guards: Provide guard boxes at back of hardware mortises in frames at all hinges and strike preps regardless of grouting requirements.
9. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
10. Jamb Anchors: Provide number and spacing of anchors as follows:

    a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches on-center and as follows:

        1) Two anchors per jamb up to 60 inches high.
        2) Three anchors per jamb from 60 to 90 inches high.
        3) Four anchors per jamb from 90 to 120 inches high.
        4) Four anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 120 inches high.

    b. Stud Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:

        1) Three anchors per jamb up to 60 inches high.
        2) Four anchors per jamb from 60 to 90 inches high.
        3) Five anchors per jamb from 90 to 96 inches high.
        4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof above 96 inches high.

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5) Two anchors per head for frames above 42 inches wide and mounted in metal stud partitions.

11. Door Silencers: Except on weatherstripped or gasketed doors, drill stops to receive door silencers. Silencers to be supplied by frame manufacturer regardless if specified in Division 08 Section "Door Hardware".
12. Bituminous Coating: Where frames are fully grouted with an approved Portland Cement based grout or mortar, coat inside of frame throat with a water based bituminous or asphaltic emulsion coating to a minimum thickness of 3 mils DFT, tested in accordance with UL 10C and applied to the frame under a 3rd party independent follow-up service procedure.

E. Hardware Preparation: Factory prepare hollow metal work to receive template mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 08 Section "Door Hardware."

1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
2. Reinforce doors and frames to receive non-template, mortised and surface mounted door hardware.
3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.
4. Coordinate locations of conduit and wiring boxes for electrical connections with Division 26 Sections.

2.11 STEEL FINISHES

A. Prime Finishes: Doors and frames to be cleaned, and chemically treated to insure maximum finish paint adhesion. Surfaces of the door and frame exposed to view to receive a factory applied coat of rust inhibiting shop primer.

1. Shop Primer: Manufacturer's standard, fast-curing, lead and chromate free primer complying with ANSI/SDI A250.10 acceptance criteria; recommended by primer manufacturer for substrate; and compatible with substrate and field-applied coatings.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. General Contractor to verify the accuracy of dimensions given to the steel door and frame manufacturer for existing openings or existing frames (strike height, hinge spacing, hinge back set, etc.).

C. Proceed with installation only after unsatisfactory conditions have been corrected.

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3.2 PREPARATION

A. Remove welded in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.

B. Prior to installation, adjust and securely brace welded hollow metal frames for square, level, twist, and plumb condition.

C. Tolerances shall comply with SDI-117 "Manufacturing Tolerances Standard Steel Doors and Frames."

D. Drill and tap doors and frames to receive non-template, mortised, and surface-mounted door hardware.

E. Verify tolerances against manufacturers installations instructions for tornado and hurricane storm shelter openings.

3.3 INSTALLATION

A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.

B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11 and NFPA 80 at fire rated openings.

1. Set frames accurately in position, plumbed, leveled, aligned, and braced securely until permanent anchors are set. After wall construction is complete and frames properly set and secured, remove temporary braces, leaving surfaces smooth and undamaged. Shim as necessary to comply with installation tolerances.
2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with post-installed expansion anchors.
3. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with mortar.
4. Grout Requirements: Do not grout head of frames unless reinforcing has been installed in head of frame. Do not grout vertical or horizontal closed mullion members.

C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.

1. Non-Fire-Rated Standard Steel Doors:

a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.

2. Fire-Rated Doors: Install doors with clearances according to NFPA 80.

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D. Field Glazing: Comply with installation requirements in Division 08 Section "Glazing" and with hollow metal manufacturer's written instructions.

3.4 ADJUSTING AND CLEANING

A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.

B. Remove grout and other bonding material from hollow metal work immediately after installation.

C. Prime-Coat and Painted Finish Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat, or painted finishes, and apply touchup of compatible air drying, rust-inhibitive primer, zinc rich primer (exterior and galvanized openings) or finish paint.

3.5 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

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SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.
2. Sliding doors.
3. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 01 Section "General Conditions".
2. Division 06 Section "Rough Carpentry".
3. Division 08 Section "Hollow Metal Doors and Frames".

D. Codes and References: Comply with the version adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.
3. ANSI/UL 294 - Access Control System Units.

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4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.
6. Ul 752 – Bullet-Resistant Equipment

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. See Division 01 for contract BABA compliance requirements. Provide documentation with the submittal package confirming BABA compliance of materials and assemblies. Submittals without BABA compliance documentation will not be reviewed and will be returned as INCOMPLETE. Compliance with BABA requirements is the responsibility of the contractor / supplier at time of submittals / purchase.

C. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:

    a. Type, style, function, size, label, hand, and finish of each door hardware item.
    b. Manufacturer of each item.
    c. Fastenings and other pertinent information.
    d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    e. Explanation of abbreviations, symbols, and codes contained in schedule.
    f. Mounting locations for door hardware.
    g. Door and frame sizes and materials.
    h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

D. Shop Drawings: Details of electrified access control hardware indicating the following:

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1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

    a. Elevation diagram of each unique access-controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
    b. Complete (risers, point-to-point) access control system block wiring diagrams.
    c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

E. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

F. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

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D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

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1.6 DELIVERY, STORAGE AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

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PART 2 - PRODUCTS

2.1 MATERIALS

A. Hardware shall not have any visible manufacturer names on exposed materials, except cylinders, when the door is in a closed position.

2.2 BUTT HINGES

A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

a. Two Hinges: For doors with heights up to 60 inches.
b. Three Hinges: For doors with heights 61 to 90 inches.
c. Four Hinges: For doors with heights 91 to 120 inches.
d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified.
b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.

5. Basis of Design Product: Subject to compliance with requirements, provide McKinney (MK) - TA/T4A Series, 5-knuckle or comparable product.

2.3 CONTINUOUS HINGES

A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

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1. Where specified, provide modular continuous geared hinges that ship in two or three pieces and form a single continuous hinge upon installation.
2. Basis of Design Product: Subject to compliance with requirements, provide Pemko (PE) CFM or comparable product.

2.4 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8" in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
5. Basis of Design Product: Subject to compliance with requirements, provide Rockwood (RO) 2845 or comparable product.

B. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Pulls shall be provided with a 10" clearance from the finished floor on the push side to accommodate wheelchair accessibility.
5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
6. Basis of Design Product: Subject to compliance with requirements, provide Rockwood (RO) K1050 or comparable product.

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.

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2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Standard.

C. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key cylinders to match Owner's existing system.

D. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

E. Construction Keying: Provide construction master keyed cylinders.

F. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 KEY CONTROL

A. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers:

a. Lund Equipment (LU).
b. MMF Industries (MM).
c. Telkee (TK).

2.7 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

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1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.8 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. Exit devices shall have a five-year warranty.
2. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
3. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.
4. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
5. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
    a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.
9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
10. Rail Sizing: Provide exit device rails factory sized for proper door width application.

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11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

1. Electromechanical exit devices shall have the following functions and features:

   a. Universal Molex plug-in connectors that have standardized color-coded wiring and are field configurable in fail safe or fail secure and operate from 12vdc to 24vdc regulated.
   b. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.
   c. Options to be available for request-to-exit or enter signaling, latchbolt and touchbar monitoring.
   d. Field configurable electrified trim to fail-safe or fail-secure that operates from 12-24VDC.
   e. Five-year limited warranty for electromechanical features.

2. Basis of Design Product: Subject to compliance with requirements, provide Sargent Manufacturing (SA) - 80 Series or comparable product.

2.9 SURFACE DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

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1. Heavy duty surface mounted door closers shall have a 30-year warranty.

    a. Basis of Design Product: Subject to compliance with requirements, provide Norton Rixson (NO) - 7500 Series or comparable product.

2.10 ARCHITECTURAL TRIM AND ACCESSORIES

A. Door, Frame and Wall Protective Trim: ANSI/BHMA A156.6, protective products as specified in the hardware sets. Door protection plates shall be not more than 2" less than door width on stop side and 1" less door width on the pull side or on stop side of pairs of doors. Listed manufacturers shall meet all functions and features as specified herein.

1. Provide protective trim with functions and features as follows:

    a. Meets ADA requirements for smooth bottom door surfaces.
    b. UL Classified options for use on fire-rated doors up to 3 hours.
    c. Fabricated from stainless steel, brass, bronze, aluminum, or high-impact plastic.
    d. Available in a variety of sizes, finishes, and profiles to suit aesthetic and functional requirements.
    e. Designed to protect doors, frames, and adjacent walls from damage due to impact, abrasion, or traffic.
    f. Fasteners included; adhesive-backed options available for select models.
    g. Ten-year limited warranty.
    h. Basis of Design Product: Subject to compliance with requirements, provide Rockwood (RO) K1050 or comparable product.

2.11 DOOR STOPS AND HOLDERS

A. Overhead Door Stops and Holders: ANSI/BHMA A156.8, Grade 1 Certified Products Directory (CPD) listed overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:

    a. Norton Rixson (NO).
    b. Rockwood (RO).
    c. Sargent Manufacturing (SA).

2.12 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

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B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. Pemko (PE).

2.13 ELECTRONIC ACCESSORIES

A. Intelligent Switching Power Supplies: Provide the least number of power supplies at the appropriate amperage level sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.

1. Power supplies shall meet all functions and features as specified herein.

a. UL listed dual voltage 12 or 24 VDC field selectable continuous output.
b. Dedicated fast charger to prolong battery life with low battery cutoff to protect batteries from deep discharge.
c. Enhanced surge immunity for input/output protection
d. Separate, dedicated battery charging circuit to keep locks cooler.
e. Dual-color LED visual notification to prevent applying incorrect voltages to the power supply.
f. Instant auto-switch to battery on AC loss.
g. Expandable up to 16 outputs in the standard enclosure
h. Integrated fire alarm interface to allow main output shutdown or disconnect on a per output basis when using an R8 output module.
i. Network ready and remotely manage locks and connected devices when using an M8 managed output module on network models.
j. Lifetime replacement, no-fault, no questions asked warranty.
k. Basis of Design Product: Subject to compliance with requirements, provide Securitron (SU) - AQL Series or comparable product.

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2.14 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.15 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

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1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.

E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 FIELD QUALITY CONTROL

A. Field Inspection (Punch Report): Reference Division 01 Sections "Closeout Procedures". Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

1. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

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3.6 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.7 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.8 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.
3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

Hardware Sets

Set: 0.0

Doors: NOTES
Description: MISC NOTES ***

1 GENERAL NOTES See below:

Notes: Products listed in this specification comply with BABA (Build America, Buy America Act) at the time the specification was written.
Compliance with BABA requirements is the responsibility of the supplier at time of submittals / purchase.

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The door hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule.
Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process.
Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

The supplier is responsible for handing and sizing all products as listed in the door hardware sets. Quantities listed are for each pair of doors, or for each single door.

Set: 1.0

Doors: E101

Description: PRIMARY ENTRY - PROXIMITY READER & INTERCOM

1	Continuous Hinge	CFM_HD1-M		PE 087100	
1	Continuous Hinge	CFM_HD1 PT		PE 087100	
1	Power Transfer	Sourced to be BABA Compliant			
1	Removable Mullion - Bullet Resistant Level 5	C76 - by Door/Frame Assembly Mfr.			
1	Rim Exit Device, Storeroom - Elec. Latch Retraction	55 56 8804 ETL (SPAR 09225)	US32D	SA 087100	ϟ
1	Rim Exit Device, Exit Only	8810 EO (SPAR 09225)	US32D	SA 087100	
2	Cylinder - Medeco	As Required	26	MC 087100	
2	Conc Overhead Stop	6-X36	630	NO 087100	
2	Surface Closer	7500 B (Tri-Pac)	689	NO 087100	
2	Kick Plate	K1050 10" high	32D-316	RO 087100	
2	Astragal	29324CNB		PE 087100	
1	Gasketing - Mullion	5110BL		PE 087100	
1	Gasketing	by door / frame mfg			
1	Threshold	253x3AFG		PE 087100	
2	Door Position Switch	Sourced to be BABA Compliant			
1	Existing Proximity Reader	to remain			
1	Existing Intercom Device	to remain			
1	Power Supply	AQL102-E2		SU 087100	ϟ

Notes:
1. Hardware to fail secure
2. Existing proximity reader to remain, relay to elec. Door latch retraction, see note 4 for path.
3. Existing intercom, relay remote door release to elec. Door latch retraction, see note 4 for path.
4. Existing door has surface mounted conduit to surface mounted power transfer door loop. The intent is to conceal wiring from surface mounted conduit connection at the head of the door frame to the exit device through equipment indicated.

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Card reader and wiring to electrified hardware by security division 28.

Operation description:
doors are normally closed and secure. Authorized access by proximity reader retracting exit device latches for predetermined time limit. Exit device latches can be electrically held retracted for open access. Egress free for immediate exit. Rex switch in push rail allows authorized exit without alarm condition. Door position switches monitor open/closed status. Exit device latches release (fail secure) in event of power loss. Keyed cylinder override for emergency access.

Set: 2.0

Doors: E102, E104
Description: PRIMARY ENTRY - PROXIMITY READER

1 Continuous Hinge	CFM_HD1-M		PE	087100	
1 Continuous Hinge	CFM_HD1 PT		PE	087100	
1 Power Transfer	Sourced to be BABA Compliant				
1 Removable Mullion - Bullet Resistant Level 5	C76 - by Door/Frame Assembly Mfr.				
1 Rim Exit Device, Storeroom - Elec. Latch Retraction	55 56 8804 ETL (SPAR 09225)	US32D	SA	087100	ϟ
1 Rim Exit Device, Exit Only	8810 EO (SPAR 09225)	US32D	SA	087100	
1 Cylinder - Medeco	As Required	26	MC	087100	
2 Conc Overhead Stop	6-X36	630	NO	087100	
2 Surface Closer	7500 B (Tri-Pac)	689	NO	087100	
2 Kick Plate	K1050 10" high	32D-316	RO	087100	
2 Astragal	29324CNB		PE	087100	
1 Gasketing - Mullion	5110BL		PE	087100	
1 Gasketing	by door / frame mfg				
1 Threshold	253x3AFG		PE	087100	
2 Door Position Switch	Sourced to be BABA Compliant				
1 Existing Proximity Reader	to remain				
1 Power Supply	AQL102-E2		SU	087100	ϟ

Notes:
1. Hardware to fail secure
2. Existing proximity reader to remain, relay to elec. Door latch retraction, see note 4 for path.
3. Existing door has surface mounted conduit to surface mounted power transfer door loop. The intent is to conceal wiring from surface mounted conduit connection at the head of the door frame to the exit device through equipment indicated.

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Operation description:
Doors are normally closed and secure. Authorized access by Proximity reader retracting exit device latches for predetermined time limit. Exit device latches can be electrically held retracted for open access. Egress free for immediate exit. REX switch in push rail allows authorized exit without alarm condition. Door position switches monitor open/closed status. Exit device latches release (fail secure) in event of power loss. Keyed cylinder override for emergency access.

Set: 3.0

Doors: E103
Description: EXIT ONLY

2	Continuous Hinge	CFM_HD1-M		PE	087100
1	Removable Mullion - Bullet Resistant Level 5	C76 - by Door/Frame Assembly Mfr.			
2	Rim Exit Device, Exit Only	8810 EO (SPAR 09225)	US32D	SA	087100
2	Conc Overhead Stop	6-X36	630	NO	087100
2	Surface Closer	7500 B (Tri-Pac)	689	NO	087100
2	Kick Plate	K1050 10" high	32D-316	RO	087100
2	Astragal	29324CNB		PE	087100
1	Gasketing - Mullion	5110BL		PE	087100
1	Gasketing	by door / frame mfg			
1	Threshold	253x3AFG		PE	087100
2	Door Position Switch	Sourced to be BABA Compliant			

Set: 4.0

Doors: E105
Description: BOILER ROOM - PAIR

8	Hinge, Full Mortise, Hvy Wt	T4A3386 x NRP - USA	US32D	MK	087100
1	Power Transfer	Sourced to be BABA Compliant			
1	Flush Bolt	2845	US32D	RO	087100
1	Surface Vert Rod Exit - Elec. Latch Retraction	55 56 8706 ETL (SPAR 09242)	US32D	SA	087100
1	Cylinder - Medeco	As Required	26	MC	087100
2	Conc Overhead Stop	6-X36	630	NO	087100
2	Surface Closer	7500 B (Tri-Pac)	689	NO	087100
2	Kick Plate	K1050 10" high	32D-316	RO	087100
2	Astragal	29324CNB		PE	087100
1	Gasketing	S88BL		PE	087100
2	Sweep	29324CNB		PE	087100
1	Threshold	253x3AFG		PE	087100

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1 Existing Proximity Reader to remain

Notes:
1. Hardware to fail secure
2. Existing proximity reader to remain, relay to elec. Door latch retraction, see note 4 for path.
3. Existing door has surface mounted conduit to surface mounted power transfer door loop. The intent is to continue this method of power transfer at this door location only.

Card Reader and wiring to electrified hardware by Security Division 28.

Operation description:
Door is normally closed and secure. Authorized access by Proximity reader retracting exit device latch for predetermined time limit. Exit device latch can be electrically held retracted for open access. Egress free for immediate exit. REX switch in push rail allows authorized exit without alarm condition. Door position switch monitors open/closed status. Exit device latch releases (fail secure) in event of power loss. Keyed cylinder override for emergency access.

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SECTION 08 88 53 - SECURITY GLAZING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Laminated-glass security glazing
2. Insulating security glazing.

B. Related Requirements:

1. Section 08 34 53.13 "Security Hollow Metal Doors and Frames"

1.2 DEFINITIONS

A. Glazing Manufacturers: Firms that produce primary glass, monolithic plastic glazing, or fabricated security glazing, as defined in referenced glazing publications.

B. Interspace: Space between lites of air-gap security glazing or insulating security glazing.

1.3 COORDINATION

A. Coordinate glazing channel dimensions to provide necessary bite on security glazing, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. See Division 01 for contract BABA compliance requirements. Provide documentation with the submittal package confirming BABA compliance of materials and assemblies. Submittals without BABA compliance documentation will not be reviewed and will be returned as INCOMPLETE. Compliance with BABA requirements is the responsibility of the contractor / supplier at time of submittals / purchase.

C. Security Glazing Schedule: List security glazing types and thicknesses for each size opening and location. Use same designations indicated on Drawings. Indicate coordinated dimensions of security glazing and construction that receives security glazing, including clearances and glazing channel dimensions.

D. Delegated Design Submittal: For security glazing, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

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1.5 INFORMATIONAL SUBMITTALS

A. Test and Evaluation Reports:

1. Product Test Reports:

a. For each type of security glazing, for tests performed by qualified testing agency.
b. For each type of glazing sealant, for tests performed by a qualified testing agency.

1) Provide test reports based on testing current sealant formulations within previous 36-month period.

2. Preconstruction Test Reports: For preconstruction adhesion and compatibility testing.

B. Qualification Statements: For manufacturers of insulating or air-gap security glazing with sputter-coated, low-e coatings.

C. Delegated design engineer qualifications.

D. Sample warranties.

1.6 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturers: For insulating or air-gap security glazing units with sputter-coated, low-e coatings, a qualified insulating glazing manufacturer who is approved and certified by coated-glass manufacturer.
2. Installers: Entity that employs installers and supervisors who are trained and approved by manufacturer.
3. Delegated Design Engineer: A professional engineer who is legally qualified to practice in state New Hampshire where Project is located and who is experienced in providing engineering services of type indicated.
4. Security Glazing Testing Agency: Subject to compliance with requirements, testing agency is one of the following:

a. Intertek.
b. Underwriters Laboratories, Inc.
c. Wiss, Janney, Elstner Associates, Inc.

5. Sealant Testing Agency: An independent testing agency qualified in accordance with ASTM C1021 to conduct the testing indicated.

1.7 PRECONSTRUCTION TESTING

A. Preconstruction Adhesion and Compatibility Testing: Test each security glazing type, tape sealant, gasket, glazing accessory, and glazing-framing member for adhesion to

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and compatibility with elastomeric glazing sealants.

1. Testing will not be required if data based on previous testing of current sealant products and glazing materials match those submitted.
2. Use ASTM C1087 to determine whether priming and other specific joint-preparation techniques are required to obtain rapid, optimum adhesion of glazing sealants to security glazing, tape sealants, gaskets, and glazing channel substrates.
3. Schedule sufficient time for testing and analyzing results to prevent delaying the Work.
4. For materials failing tests, submit sealant manufacturer's written instructions for corrective measures, including the use of specially formulated primers.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Protect security glazing and glazing materials according to manufacturer's written instructions. Prevent damage from condensation, temperature changes, direct exposure to sun, or other causes.

B. Comply with insulating security glazing and with air-gap security glazing manufacturers' written recommendations for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.9 FIELD CONDITIONS

A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.

1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or below **40 deg F**.

1.10 WARRANTY

A. Special Warranty, Insulating Security Glazing: Manufacturer agrees to replace insulating security glazing that fails in materials and workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

a. Defects in individual lites developed from normal use or failure of hermetic seal under normal use. Defects in individual lites or failure of hermetic seal that is attributed to glass breakage or to maintaining and cleaning insulating security glazing contrary to manufacturer's written instructions are not included.
b. Defects in coated-glass lites include peeling, cracking, and other

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indications of deterioration in coating.

c. Defects in laminated-glass lites include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.

d. Defects in glass-clad polycarbonate lites include edge separation, delamination materially obstructing vision through glazing, blemishes exceeding those allowed by referenced glass-clad polycarbonate standard, yellowing, and loss of light transmission.

e. Evidence of hermetic seal failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glazing.

2. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Source Limitation Obtain Security Glazing as part of the door, frame and hardware assembly outlined in section 08 11 13. The intent is for the provided assembly to match the manufacturer's tested assembly to the greatest extent possible.

B. Products listed in this specification comply with BABA (Build America, Buy America Act) at the time the specification was written. Compliance with BABA requirements is the responsibility of the supplier at time of submittals / purchase

2.2 PERFORMANCE REQUIREMENTS

A. General:

1. Installed security glazing will withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or breakage attributable to defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
2. Installed security glazing will withstand security-related loads and forces without damage to the glazing beyond that allowed by referenced standards.

B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design security glazing.

C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.

D. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

E. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.

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2.3 SECURITY GLAZING, GENERAL

A. Glazing Publications: Comply with published recommendations of security glazing and glazing material manufacturers and organizations below unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.

1. AAMA Publications: AAMA GDSG-1 and AAMA TIR-A7.
2. IGMA Publication for Sloped Glazing: IGMA TB-3001.
3. IGMA Publication for Insulating Glass: SIGMA TM-3000.
4. NGA Publications: "Laminated Glazing Reference Manual" and "GANA Glazing Manual."

B. Plastic Glazing Labeling: Identify plastic sheets with appropriate markings of applicable testing and inspecting agency, indicating compliance with required fire-test-response characteristics.

C. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the Safety Glazing Certification Council or another certification agency acceptable to authorities having jurisdiction or manufacturer. Label will indicate manufacturer's name, type of glazing, glass thickness, and safety glazing standard with which glazing complies.

D. Insulating Glazing Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of the Insulating Glass Certification Council.

E. Thermal and Optical Performance Properties: Provide security glazing with performance properties specified, as indicated in manufacturer's published test data, based on construction products indicated and on procedures indicated below:

1. U-Factors: Center-of-glazing values, in accordance with NFRC 100 and based on most current non-beta version of LBL's WINDOW computer program, expressed as **Btu/sq. ft. x h x deg F**.
2. SHGC and Visible Transmittance: Center-of-glazing values, in accordance with NFRC 200 and based on most current non-beta version of LBL's WINDOW 7.7 computer program.
3. Visible Reflectance: Center-of-glazing values, in accordance with NFRC 300.

2.4 GLASS PRODUCTS

A. Float Glass: ASTM C1036, Type I, Quality-Q3, Class I (clear) unless otherwise indicated.

B. Heat-Treated Float Glass: ASTM C1048; Type I; Quality-Q3; Class I (clear) unless otherwise indicated; of kind and condition indicated.

1. Fabrication Process: By horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
2. For heat-strengthened float glass, comply with requirements for Kind HS.

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3. For fully tempered float glass, comply with requirements for Kind FT.
4. For uncoated glass, comply with requirements for Condition A.
5. For coated vision glass, comply with requirements for Condition C (other coated glass).

C. Reflective-Coated Vision Glass: ASTM C1376, Kind CV (coated vision glass), coated by vacuum deposition (sputter-coating) process, and complying with other requirements specified.

2.5 INSULATING SECURITY GLAZING

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Global Security Glazing
2. OldCastle Building Envelope (OBE)
3. Total Security Solutions (TSS)

B. Basis-of-Design Product: Subject to compliance with requirements, provide Total Security Solutions (TSS); TSS 005 Insulated All Glass Low Spall 1 13/16" or comparable product by one of the following:

1. Global Security Glazing
2. OldCastle Building Envelope (OBE)
3. Total Security Solutions (TSS)

C. Insulating Security Glazing: Factory-assembled units, consisting of sealed lites of glazing material indicated separated by a dehydrated interspace, qualified in accordance with ASTM E2190

1. Sealing System: Dual seal, with manufacturer's standard primary and secondary sealants.
2. Spacer: Manufacturer's standard spacer material and construction.
3. Desiccant: Molecular sieve or silica gel, or blend of both.
4. Options:

a. One-way glass
b. Insulating unit with Low-E gas in airspace.

2.6 GLAZING SEALANTS

A. General:

1. Compatibility: Provide glazing sealants that are compatible with one another and with other materials they contact, including security glazing, seals of insulating security glazing and air-gap security glazing, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.

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2. Suitability: Comply with sealant and security glazing manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
3. Colors of Exposed Glazing Sealants: As indicated by manufacturer's designations.

2.7 GLAZING TAPES

A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and security glazing manufacturers for application indicated; and complying with ASTM C1281 and AAMA 800 for products indicated below:

1. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
2. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.

B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:

1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.8 MISCELLANEOUS GLAZING MATERIALS

A. General: Provide products of material, size, and shape complying with referenced glazing standard, recommended in writing by manufacturers of security glazing and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.

B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.

C. Setting Blocks:

1. Type recommended in writing by sealant or glass manufacturer.

D. Spacers:

1. Type recommended in writing by sealant or security glazing manufacturer.

E. Edge Blocks:

1. Type recommended in writing by sealant or security glazing manufacturer.

F. Cylindrical Glazing Sealant Backing: ASTM C1330, Type O (open-cell material), of size

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and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.9 FABRICATION OF SECURITY GLAZING

A. Fabricate security glazing in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.

B. Grind smooth and polish exposed security glazing edges and corners.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine framing for security glazing, with Installer present, for compliance with the following:

1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
2. Presence and functioning of weep system.
3. Minimum required face or edge clearances.
4. Minimum required bite.
5. Effective sealing between joints of framing members.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean glazing channels and other framing members receiving security glazing immediately before glazing. Remove coatings not firmly bonded to substrates.

B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that will leave visible marks in the completed work.

3.3 GLAZING, GENERAL

A. Comply with combined written instructions of manufacturers of security glazing, sealants, gaskets, and other glazing materials unless more stringent requirements are indicated, including those in referenced glazing publications.

B. Protect edges of security glazing from damage during handling and installation. Remove damaged security glazing from Project site and legally dispose of it off Project site. Damaged security glazing includes units with edge or face damage or other imperfections that, when installed, could weaken security glazing and impair

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performance and appearance.

C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.

D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications unless otherwise required by glazing unit manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.

E. Do not exceed edge pressures stipulated by security glazing manufacturers for installing lites.

F. Provide spacers for security glazing lites where the length plus width is larger than **50 inches**.

1. Locate spacers directly opposite each other on both inside and outside faces of security glazing. Install correct size and spacing to preserve required face clearances unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with performance requirements.
2. Provide **1/8-inch** minimum bite of spacers on glazing lites and use thickness equal to sealant width. With glazing tape, use thickness of slightly less than final compressed thickness of tape.

G. Provide edge blocking where indicated or needed to prevent security glazing from moving sideways in glazing channel, as recommended in writing by security glazing manufacturer and in accordance with requirements in referenced glazing publications.

H. Set security glazing in each series with uniform pattern, draw, bow, and similar characteristics.

I. Set coated security glazing with proper orientation so that coatings and films face exterior or interior as specified.

J. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.

K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended in writing by gasket manufacturer.

3.4 TAPE GLAZING

A. Position tapes on fixed stops so that, when compressed by security glazing, their exposed edges are flush with or protrude slightly above sightline of stops.

B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.

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C. Cover vertical framing joints by applying tapes to heads and sills first and then to jambs. Cover horizontal framing joints by applying tapes to jambs and then to heads and sills.

D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.

E. Do not remove release paper from tape until just before each glazing unit is installed.

F. Apply heel bead of elastomeric sealant.

G. Center security glazing in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.

H. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.5 GASKET GLAZING (DRY)

A. Cut compression gaskets to lengths recommended in writing by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.

B. Insert soft compression gasket between glazing unit and frame or fixed stop, so it is securely in place with joints miter cut and bonded together at corners.

C. Installation with Drive-in Wedge Gaskets: Center security glazing in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in security glazing. Seal gasket joints with sealant recommended in writing by gasket manufacturer.

D. Installation with Pressure-Glazing Stops: Center security glazing in openings on setting blocks and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in security glazing. Seal gasket joints with sealant recommended in writing by gasket manufacturer.

E. Install gaskets so they protrude past face of glazing stops.

3.6 SEALANT GLAZING (WET)

A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between security glazing and glazing stops to maintain face clearances and to prevent sealant from extruding into glazing channel and blocking weep systems. Secure spacers, or spacers and backings, in place and in position to control depth of installed

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sealant relative to edge clearance for optimum sealant performance.

B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to security glazing and channel surfaces.

C. Tool exposed surfaces of sealants to provide a substantial wash away from security glazing.

3.7 CLEANING AND PROTECTION

A. Immediately after installation remove nonpermanent labels and clean surfaces.

B. Protect security glazing from contact with contaminating substances resulting from construction operations, including weld splatter. Examine security glazing surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.

1. If, despite such protection, contaminating substances do contact with security glazing, remove substances immediately as recommended in writing by security glazing manufacturer. Remove and replace security glazing that cannot be cleaned without damage.

C. Wash security glazing on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash security glazing as recommended in writing by security glazing manufacturer.

3.8 INSULATING SECURITY GLAZING SCHEDULE

A. Security Glazing Type IG-1: Reflective-coated, clear insulating security glazing. Outdoor lite is made of laminated glass, and indoor lite is made of glass-clad polycarbonate with spall-resistant film on inside face.

1. Basis-of-Design Product: Total Security Solutions, TSS 005 Insulated All Glass Low Spall 1-13/16", model #0-GLZ-TIG-1009.
2. Ballistic Resistance, UL 752: Level 5 in accordance with UL 752.
3. Overall Unit Thickness: 1-13/16".
4. Outer Lite: Triple ply laminated glass construction with mirror applied to layer 2.
5. Interspace Content: Argon.
6. Low-E coating t o be app
7. Overall Visible Light Transmittance: 69 percent minimum.
8. Winter Nighttime U-Factor: 0.47 maximum.
9. Solar-Heat-Gain Coefficient: 0.55 maximum.
10. Provide safety glazing labeling.

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SECTION 09 91 14 - EXTERIOR PAINTING (MPI STANDARDS)

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Surface preparation of substrates and application of the following:

1. Exterior paint systems.

1.2 DEFINITIONS

A. MPI Gloss Level G1: Not more than five units at 60 degrees and 10 units at 85 degrees, in accordance with ASTM D523.

B. MPI Gloss Level G2: Not more than 10 units at 60 degrees and between 10 to 35 units at 85 degrees, in accordance with ASTM D523.

C. MPI Gloss Level G3: Between 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, in accordance with ASTM D523.

D. MPI Gloss Level G4: Between 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, in accordance with ASTM D523.

E. MPI Gloss Level G5: Between 35 to 70 units at 60 degrees, in accordance with ASTM D523.

F. MPI Gloss Level G6: Between 70 to 85 units at 60 degrees, in accordance with ASTM D523.

G. MPI Gloss Level G7: More than 85 units at 60 degrees, in accordance with ASTM D523.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
2. Include preparation requirements and application instructions.
3. Indicate VOC content.

B. See Division 01 for contract BABA compliance requirements. Provide documentation with the submittal package confirming BABA compliance of materials and assemblies. Submittals without BABA compliance documentation will not be reviewed and will be returned as INCOMPLETE. Compliance with BABA requirements is the responsibility of the contractor / supplier at time of submittals / purchase.

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1.4 DELIVERY, STORAGE, AND HANDLING

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than **45 deg F**.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

1.5 FIELD CONDITIONS

A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between **50 and 95 deg F**.

B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than **5 deg F** above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain each paint product from single source from single manufacturer.

2.2 EXTERIOR PAINTS, GENERAL

A. Exterior Paint Systems: Subject to compliance with requirements, provide product listed in applicable exterior painting schedule articles for the paint category indicated.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Benjamin Moore & Co.
b. Rust-Oleum Corporation
c. Sherwin-Williams Company (The)
d. The Pittsburgh Paints Company

B. MPI Standards: Provide products complying with MPI standards indicated in applicable exterior painting schedule articles and listed in the "MPI Approved Products List."

C. Material Compatibility:

1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, provide products recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.

D. VOC Content: For field applications, verify paints and coatings comply with VOC

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content limits of authorities having jurisdiction and the following VOC content limits:

1. Flat Paints and Coatings: 50 g/L.
2. Nonflat Paints and Coatings: 50 g/L.
3. Primers, Sealers, and Undercoaters: 100 g/L.
4. Rust-Preventive Coatings: 100 g/L.
5. Zinc-Rich Industrial Maintenance Primers: 100 g/L.
6. Pretreatment Wash Primers: 420 g/L.

E. Colors: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.

C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.

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E. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceeds that permitted in manufacturer's written instructions.

F. Steel Substrates: Remove loose rust, loose mill scale, loose shop primer, and other loose foreign matter. Clean using methods recommended in writing by paint manufacturer but not less than the following:

1. SSPC-SP 3.

G. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

H. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.

I. Wood Substrates:

1. Scrape and clean knots. Before applying primer, apply coat of knot sealer recommended in writing by topcoat manufacturer for exterior use in paint system indicated.
2. Sand surfaces that will be exposed to view and remove sanding dust.
3. Prime edges, ends, faces, undersides, and backsides of wood.
4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.

3.3 APPLICATION OF EXTERIOR PAINT PRODUCTS

A. Apply paints in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."

1. Use applicators and techniques suited for paint and substrate indicated.
2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
3. Paint both sides and edges of exterior doors and entire exposed surface of exterior door frames.
4. Paint entire exposed surface of window frames and sashes.
5. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
6. Primers specified in applicable exterior painting schedule articles may be omitted on items that are factory primed or factory finished if compatible with intermediate and topcoat coatings and acceptable to intermediate and topcoat paint manufacturers.

B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat but provide sufficient difference in shade of undercoats to distinguish each separate coat.

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C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.

D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

E. Painting Fire-Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:

1. Paint the following work where exposed to view:

a. Equipment, including panelboards and switch gear.
b. Uninsulated metal piping.
c. Uninsulated plastic piping.
d. Pipe hangers and supports.
e. Metal conduit.
f. Plastic conduit.
g. Tanks that do not have factory-applied final finishes.

3.4 FIELD QUALITY CONTROL

A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.

1. Touch up and restore painted surfaces damaged by testing.
2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written instructions, apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written instructions.
3. Cost of retesting is Contractor's responsibility.

3.5 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

1. Do not clean equipment with free-draining water and prevent solvents, thinners, cleaners, and other contaminants from entering into waterways, sanitary and storm drain systems, and ground.
2. Dispose of contaminants in accordance with requirements of authorities having jurisdiction.
3. Allow empty paint cans to dry before disposal.
4. Collect waste paint by type and deliver to recycling or collection facility.

B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

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

D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 EXTERIOR PAINTING SCHEDULE, METAL SUBSTRATES

A. Steel and Iron Substrates:

1. Water-Based Light Industrial Coating System: MPI EXT 5.1C.

   a. Prime Coat: Primer, alkyd, anticorrosive for metal, MPI #79 Water-Based .
   b. Intermediate Coat: Light industrial coating, exterior, water based, matching topcoat.
   c. Topcoat: Light industrial coating, exterior, water based, semigloss (MPI Gloss Level G5), MPI #163.

B. Galvanized-Metal Substrates:

1. Water-Based Light Industrial Coating System: MPI EXT 5.3J.

   a. Prime Coat: Primer, galvanized, water based, MPI #134.
   b. Intermediate Coat: Light industrial coating, exterior, water based, matching topcoat.
   c. Topcoat: Light industrial coating, exterior, water based, semigloss (MPI Gloss Level G5), MPI #163.

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SECTION 09 91 24 - INTERIOR PAINTING (MPI STANDARDS)

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes: Surface preparation of substrates and application of the following:

1. Interior paint systems.

B. Related Requirements:

1. Section 099114 "Exterior Painting (MPI Standards)."

1.2 DEFINITIONS

A. MPI Gloss Level G1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, in accordance with ASTM D523.

B. MPI Gloss Level G2: Not more than 10 units at 60 degrees and between 10 to 35 units at 85 degrees, in accordance with ASTM D523.

C. MPI Gloss Level G3: Between 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, in accordance with ASTM D523.

D. MPI Gloss Level G4: Between 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, in accordance with ASTM D523.

E. MPI Gloss Level G5: Between 35 to 70 units at 60 degrees, in accordance with ASTM D523.

F. MPI Gloss Level G6: Between 70 to 85 units at 60 degrees, in accordance with ASTM D523.

G. MPI Gloss Level G7: More than 85 units at 60 degrees, in accordance with ASTM D523.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
2. Include preparation requirements and application instructions.
3. Indicate VOC content.

B. See Division 01 for contract BABA compliance requirements. Provide documentation

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with the submittal package confirming BABA compliance of materials and assemblies. Submittals without BABA compliance documentation will not be reviewed and will be returned as INCOMPLETE. Compliance with BABA requirements is the responsibility of the contractor / supplier at time of submittals / purchase.

C. Samples for Verification: For each type of paint system and in each color and gloss of topcoat. Submit actual paint drawdowns as specified below for verification Samples.

1. Submit Samples on rigid backing, **8 inches** square.
2. Apply coats on Samples in steps to show each coat required for system.
3. Label each coat of each Sample.
4. Label each Sample for location and application area.

D. Product List: Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in the Interior Painting Schedule to cross-reference paint systems specified in this Section. Include color designations.

E. Sustainable Design Submittals:

1. Product Data: For paints and coatings, indicating VOC content.
2. Environmental Product Declaration (EPD): For each product.
3. Health Product Declaration (HPD): For each product.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than **45 deg F**.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

1.5 FIELD CONDITIONS

A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between **50 and 95 deg F**.

B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures of less than **5 deg F** above the dew point; or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain each paint product from single source from single manufacturer.

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2.2 INTERIOR PAINTS, GENERAL

A. Interior Paint Systems: Subject to compliance with requirements, provide product listed in the applicable interior painting schedule articles for the paint category indicated.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

a. Benjamin Moore & Co.
b. Rust-Oleum Corporation
c. Sherwin-Williams Company (The)
d. The Pittsburgh Paints Company

B. MPI Standards: Provide products complying with MPI standards indicated in applicable interior painting schedule articles and listed in the "MPI Approved Products List."

C. Material Compatibility:

1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, products must be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.

D. VOC Content: For field applications , verify paints and coatings comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:

1. Flat Paints and Coatings: 50 g/L.
2. Nonflat Paints and Coatings: 50 g/L.
3. Primers, Sealers, and Undercoaters: 100 g/L.
4. Rust-Preventive Coatings: 100 g/L.
5. Zinc-Rich Industrial Maintenance Primers: 100 g/L.

E. Colors: Match existing adjacent materials.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:

1. Concrete: 12 percent.
2. Cementitious Composition Board: 12 percent.
3. Masonry (Clay and CMUs): 12 percent.
4. Wood: 15 percent.

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5. Gypsum Board: 12 percent. Verify that finishing compound is dry and sanded smooth.
6. Plaster: 12 percent. Verify that plaster is fully cured.

C. Verify suitability of substrates, including surface conditions and compatibility, with finishes and primers. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.

C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.

E. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceeds that permitted in manufacturer's written instructions.

F. Steel Substrates: Remove loose rust, loose mill scale, loose shop primer, and other loose foreign matter. Clean using methods recommended in writing by paint manufacturer but not less than the following:

1. SSPC-SP 3.

G. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

H. Galvanized Metal Substrates: Remove grease and oil residue from galvanized metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion

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of subsequently applied paints.

I. Wood Substrates:

1. Scrape and clean knots. Before applying primer, apply coat of knot sealer recommended in writing by topcoat manufacturer for interior use in paint system indicated.
2. Sand surfaces that will be exposed to view and remove sanding dust.
3. Prime edges, ends, faces, undersides, and backsides of wood.
4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.

3.3 APPLICATION OF INTERIOR PAINT PRODUCTS

A. Apply paints in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."

1. Use applicators and techniques suited for paint and substrate indicated.
2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
3. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
4. Primers specified in applicable interior painting schedule articles may be omitted on items that are factory primed or factory finished if compatible with intermediate and topcoat coatings and acceptable to intermediate and topcoat paint manufacturers.

B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat but provide sufficient difference in shade of undercoats to distinguish each separate coat.

C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.

D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

E. Painting Fire-Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:

1. Paint the following work where exposed to view in occupied spaces:

a. Metal conduit.
b. Plastic conduit.

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3.4 FIELD QUALITY CONTROL

A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.

1. Touch up and restore painted surfaces damaged by testing.
2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.
3. Cost of retesting is Contractor's responsibility.

3.5 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

1. Do not clean equipment with free-draining water and prevent solvents, thinners, cleaners, and other contaminants from entering into waterways, sanitary and storm drain systems, and ground.
2. Dispose of contaminants in accordance with requirements of authorities having jurisdiction.
3. Allow empty paint cans to dry before disposal.
4. Collect waste paint by type and deliver to recycling or collection facility.

B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

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

D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINTING SCHEDULE, MASONRY SUBSTRATES

A. CMU Substrates:

1. Institutional Low-Odor/VOC Latex System: MPI INT 4.2E.

a. Block Filler: Block filler, latex, interior/exterior, MPI #4.
b. Intermediate Coat: Latex, interior, institutional low odor/VOC, matching topcoat.
c. Topcoat: Latex, interior, institutional low odor/VOC, (MPI Gloss Level G2), MPI #144.

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3.7 INTERIOR PAINTING SCHEDULE, METAL SUBSTRATES

A. Steel and Iron Substrates:

1. Water-Based Light Industrial Coating System: MPI INT 5.1B.

a. Prime Coat:Primer, alkyd, anti-corrosive for metal, MPI #79 Water-Based.
b. Intermediate Coat: Light industrial coating, interior, water based, matching topcoat.
c. Topcoat: Light industrial coating, interior, water based, semi-gloss (MPI Gloss Level G5), MPI #163.

B. Galvanized Metal Substrates:

1. Water-Based Light Industrial Coating System: MPI INT 5.3J.

a. Prime Coat: Primer, galvanized, water based, MPI #134.
b. Intermediate Coat: Light industrial coating, interior, water based, matching topcoat.
c. Topcoat: Light industrial coating, interior, water based, semigloss (MPI Gloss Level; G5), MPI #163.

3.8 INTERIOR PAINTING SCHEDULE, WOOD SUBSTRATES

A. Finish Carpentry Substrates: Wood trim.

1. Institutional Low-Odor/VOC Latex System: MPI INT 6.3V.

a. Prime Coat: Primer, latex, for interior wood, MPI #39.
b. Intermediate Coat: Latex, interior, institutional low odor/VOC, matching topcoat.
c. Topcoat: Latex, interior, institutional low odor/VOC, semigloss (MPI Gloss Level G5), MPI #147.

3.9 INTERIOR PAINTING SCHEDULE, GYPSUM-BASED SUBSTRATES

A. Gypsum Board and Plaster Substrates:

1. Institutional Low-Odor/VOC Latex System: MPI INT 9.2M.

a. Prime Coat: Primer sealer, interior, institutional low odor/VOC, MPI #149.
b. Intermediate Coat: Latex, interior, institutional low odor/VOC, matching topcoat.
c. Topcoat: Latex, interior, institutional low odor/VOC, (MPI Gloss Level G3), MPI #145.

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EXTERIOR DOOR UPGRADES
LEBANON READINESS CENTER
174 HEATER ROAD LEBANON, NH 03766

DEPARTMENT OF MILITARY AFFAIRS AND VETERANS SERVICES
1 MINUTEMAN WAY CONCORD NH 03301



ISSUED FOR CONSTRUCTION
06/10/2026

TTG PROJECT NUMBER: 5474

DRAWING INDEX:

DRAWING LIST

SHEET NUMBER	DRAWING TITLE
COVER	COVER SHEET
D1.1	DEMOLITION FLOOR PLAN
A1.1	FLOOR PLAN
A1.2	EXTERIOR ELEVATIONS
A2.1	DOOR SCHEDULE & DETAILS

PROJECT SITE



LOCUS MAP



N

PROJECT TEAM:

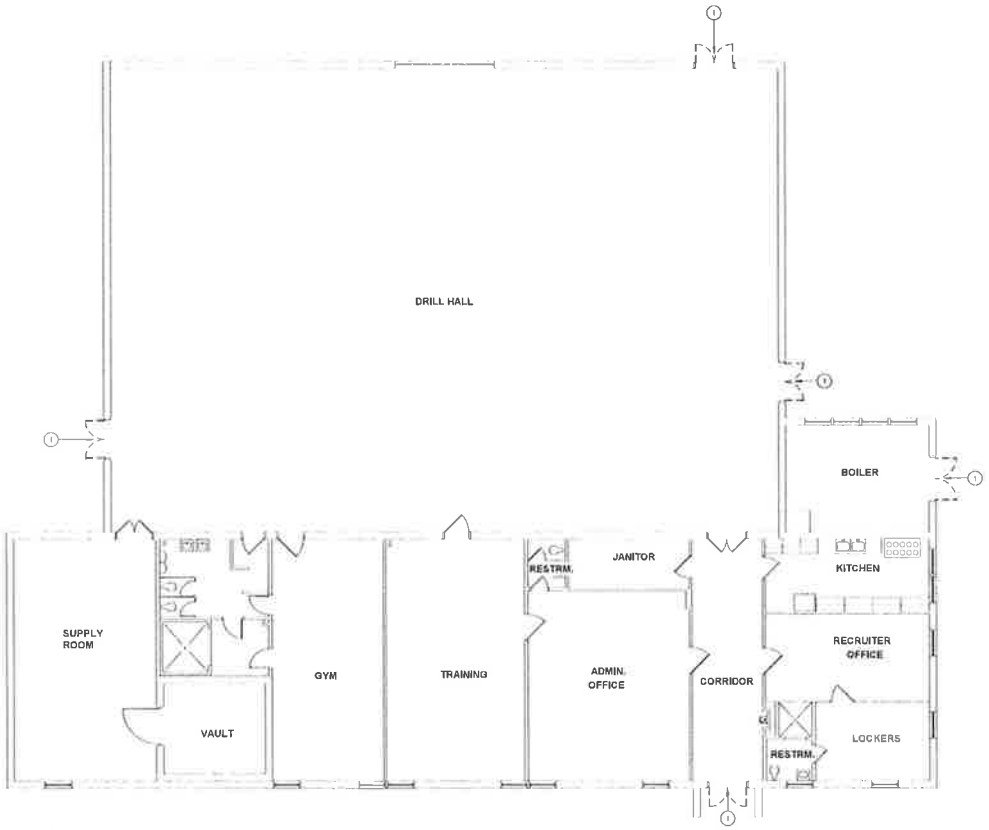
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ELECTRICAL ENGINEERING

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NOTE: EXISTING AIPHONES & PROXIMITY READERS TO REMAIN.

GENERAL DEMOLITION NOTES

1. PROVIDE TEMPORARY BARRICADES AND PROTECTION TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT CONSTRUCTION TO REMAIN.
2. DURING DEMOLITION ACTIVITIES, MAINTAIN BUILDING SHELL REMAINS WATER TIGHT AND WEATHER TIGHT.
3. UNLESS OTHERWISE NOTED, MATERIAL IS INDICATED TO REMAIN OR TO BE TURNED OVER TO THE OWNER. REMOVE MATERIAL FROM PROJECT SITE AND DISPOSE OF LEGALLY.
4. THE CONTRACTOR IS TO PROTECT THE EXISTING BUILDING STRUCTURE AND FINISHES TO REMAIN.
5. WHERE UTILITY SYSTEMS NEED TO BE REMOVED, PROVIDE CAP, VALVE, PLUG OR SEAL TO MEET CODE REQUIREMENTS AND MAINTAIN CONTINUITY OF THE SYSTEM.
6. THE CONTRACTOR IS TO CAP AND PROTECT ALL UTILITIES TO BE MAINTAINED.
7. ALL DIMENSIONS INDICATED ARE PLUS OR MINUS UNLESS OTHERWISE NOTED.
8. DEMOLITION FOR THIS PROJECT IS INDICATED, BUT NOT LIMITED TO, WHAT SHOWN ON THESE DRAWINGS AND ANY ADDITIONAL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
9. ANY EXISTING COMPONENTS THAT INTERFERE WITH PROPOSED WORK SHALL BE REMOVED AND REINSTALLED AS REQUIRED.
10. DEMOLITION AND CONSTRUCTION AREAS SHALL BE BARRICADED AS NECESSARY TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES AND GUIDELINES. DUST CONTROL SYSTEMS SHALL BE INSTALLED AND REMAIN IN PLACE AS NECESSARY TO CONTROL DUST ON THIS PROJECT UNLESS OTHERWISE NOTED.
11. PROVIDE ALL BRACING, SHORING, SHIMS, ETC. AS REQUIRED TO STABILIZE AND PROTECT EXISTING ADJACENT STRUCTURES DURING CONSTRUCTION.
12. COMPLY WITH ALL FEDERAL, STATE AND LOCAL GUIDELINES AND REQUIREMENTS AT ALL TIMES DURING THE IMPLEMENTATION OF THE WORK.
13. CONTRACTOR IS TO REMOVE & REINSTALL EXISTING CARD READER SYSTEM WHERE APPLICABLE.

LEGEND

- [illegible] TO BE REMOVED
- [illegible] TO REMAIN
- DESIGNATION FOR EXISTING ITEMS TO BE REPLACED
- CONSTRUCTION NOTE SEE LEGEND BELOW

DEMOLITION NOTE LEGEND

1. [illegible] EARLY MASONRY WORK AS APPLICABLE. PREPARE OPENING FOR DOOR FRAME & HARDWARE AS SCHEDULED.

DEMOLITION FLOOR PLAN
D1.1 Scale: 1/8" = 1'-0"

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EXTERIOR DOOR UPGRADES
LEBANON READINESS CENTER
174 HEATER ROAD LEBANON, NH 03766

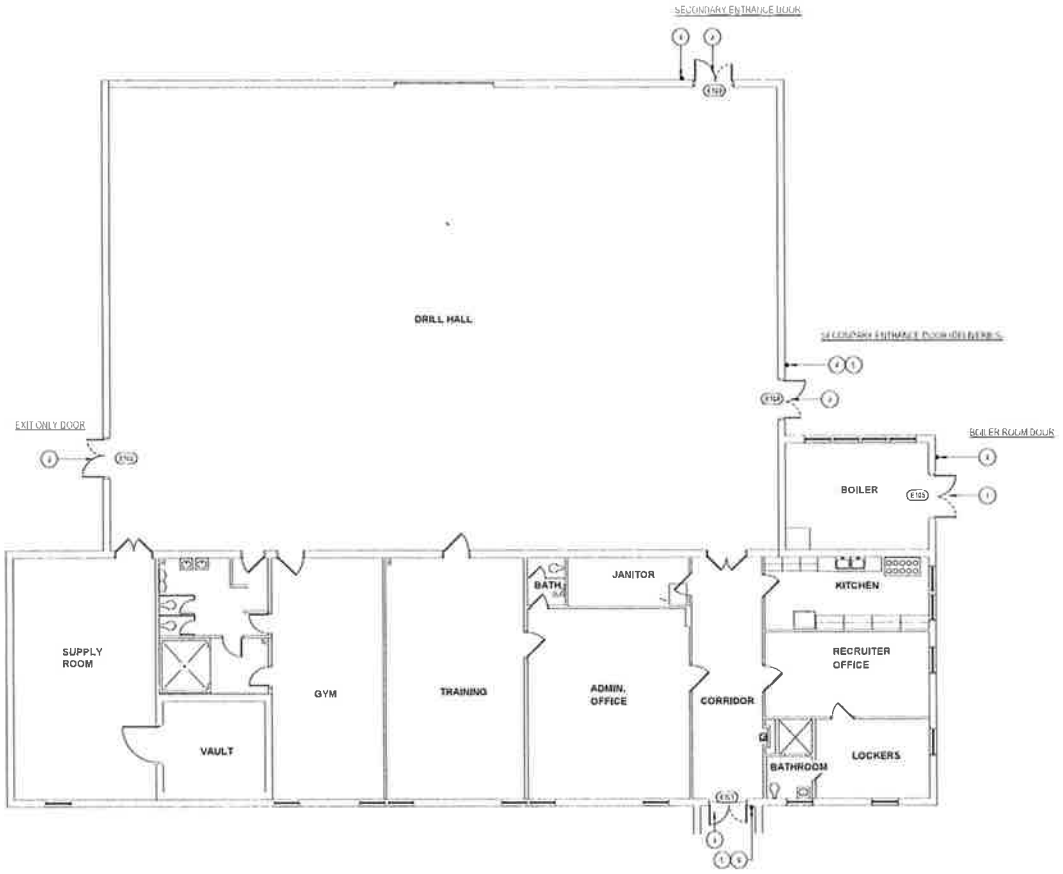
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ISSUED FOR CONSTRUCTION
06/10/2026

DEMOLITION FLOOR PLAN

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Initial Date: 3/22/2026



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

GENERAL FLOOR PLAN NOTES

1. [illegible]
2. VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING REACTIVATED ELEMENTS IN THE FIELD PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES DISCOVERED BEFORE PROCEEDING WITH ANY WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THEIR OPERATIONS TO THE SITE AND ALL DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AND ARCHITECT/ENGINEER.
4. THE CONTRACTOR SHALL PROVIDE PROCEDURES FOR ALL GENERAL CONSTRUCTION WORK AND ELECTRICAL DEVICES AS REQUIRED.
5. ALL LOAD BEARING CONTACT WITH EXISTING SHALL BE PROPERLY CREATED
6. THE CONTRACTOR SHALL REVIEW KNOW TO INSTALLATION AND COMPACT OF ENGINEERING TRADE DEVICES WITH ARCHITECTURAL DETAILS AND BRING THOSE DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT FOR REVIEW.
7. ALL DIMENSIONS ARE TO FACE OF STUD TO FACE OF CONCRETE, FACE OF MASONRY OR CENTER OF MASONRY UNLESS OTHERWISE NOTED.
8. SEE ENGINEERS SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT CONTAINED ON THESE DRAWINGS.

LEGEND

- DESIGNATION FOR ITEMS TO BE REMOVED
- DESIGNATION FOR EXISTING ITEMS TO REMAIN
- DESIGNATION FOR EXISTING ITEMS TO BE REPLACED
- CONCEPTUAL NOTATE - SEE LEGEND BELOW

CONSTRUCTION NOTE LEGEND

1. [illegible]
2. REMOVED
3. [illegible] TO BE SCHEDULED TO BE DISTRIBUTED AS SURVEY OPENING
4. EXISTING ACCESS CONTROL POWERED READER TO REMAIN WITH INTERCONNECT TO ELECTRICAL DOOR LATCH/RETRACTION DEVICE
5. EXISTING KEYFOB TO REMAIN WITH INTERCONNECT TO ELECTRICAL DOOR LATCH/RETRACTION DEVICE

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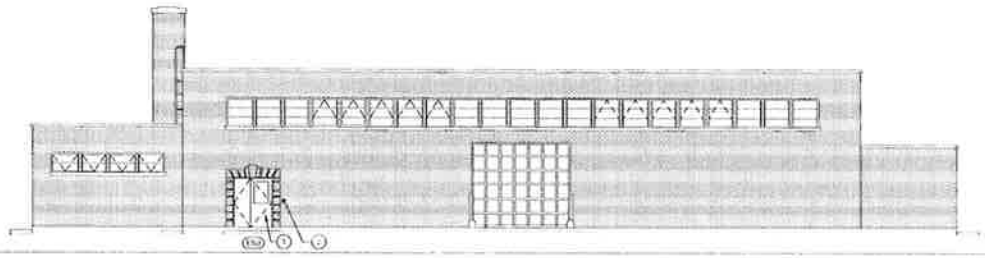
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FLOOR PLAN

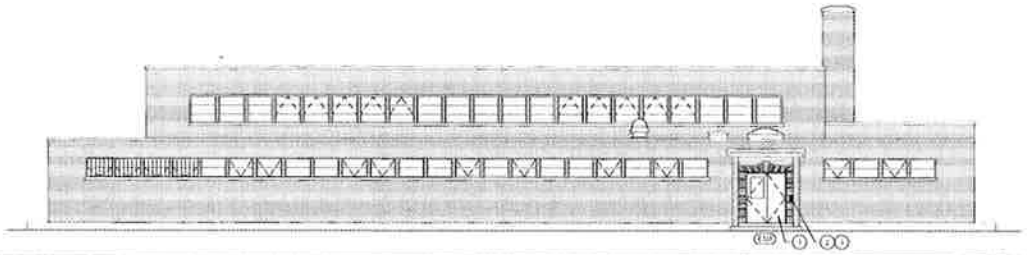
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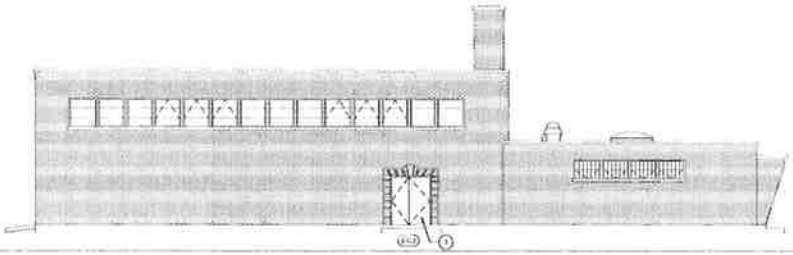
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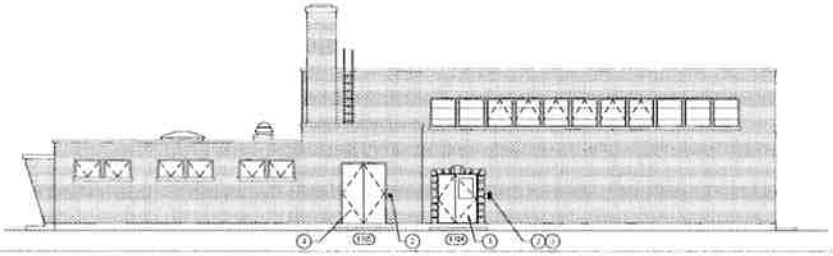
1 A1.2 NORTH ELEVATION
Scale: 1/8" = 1'-0"



2 A1.2 SOUTH ELEVATION
Scale: 1/8" = 1'-0"



3 A1.2 WEST ELEVATION
Scale: 1/8" = 1'-0"



4 A1.2 EAST ELEVATION
Scale: 1/8" = 1'-0"

GENERAL ELEVATION NOTES

GENERAL DEMOLITION NOTES

1. PROVIDE TEMPORARY BARRICADES AND PROTECTION TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT CONSTRUCTION TO REMAIN.
2. DURING DEMOLITION ACTIVITIES MAINTAIN BUILDING SHELL REMAINS WATER TIGHT AND WEATHER TIGHT.
3. UNLESS DESIGNATED MATERIAL IS INDICATED TO REMAIN OR TO BE TURNED OVER TO THE OWNER, REMOVE MATERIAL FROM PROJECT SITE AND DISPOSE OF LEGALLY.
4. THE CONTRACTOR IS TO PROTECT THE EXISTING BUILDING STRUCTURE AND FINISHES TO REMAIN.
5. WHEN UTILITY SYSTEMS NEED TO BE REMOVED, PROVIDE CAP, VALVE, PLUG OR SEAL TO MEET CODE REQUIREMENTS AND MAINTAIN CONTINUANCE OF THE SYSTEM.
6. THE CONTRACTOR IS TO CAP AND PROTECT ALL UTILITIES AS ENCOUNTERED.
7. ALL DIMENSIONS INDICATED ARE PLUS OR MINUS UNLESS OTHERWISE NOTED.
8. DEMOLITION FOR THIS PROJECT IS INDICATED BUT NOT LIMITED TO THAT SHOWN ON THESE DRAWINGS AND ANY ADDITIONAL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE CONSTRUCTION IS A REQUIREMENT OF THIS CONTRACT. ANY EXISTING COMPONENTS THAT INTERFERE WITH PROPOSED WORK SHALL BE REMOVED AND RE-INSTALLED AS REQUIRED.
9. DEMOLITION AND CONSTRUCTION AREAS SHALL BE BARRICADED AS NECESSARY TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. DUST CONTROL SYSTEMS SHALL BE INSTALLED AND REMAIN IN PLACE AS NECESSARY TO CONTROL DUST ON THIS PROJECT UNLESS OTHERWISE NOTED.
10. PROVIDE ALL LITES, SHORING, BRACING, ETC. AS REQUIRED TO STABILIZE AND PROTECT EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION.
11. COMPLY WITH ALL FEDERAL, STATE AND LOCAL GUIDELINES AND REQUIREMENTS AT ALL TIMES DURING THE IMPLEMENTATION OF THE WORK.
12. CONTRACTOR IS TO REMOVE & REINSTALL EXISTING CARD READER SYSTEM WHERE APPLICABLE.

LEGEND

- DESIGNATION FOR ITEMS TO BE REMOVED
- DESIGNATION FOR EXISTING ITEMS TO REMAIN
- DESIGNATION FOR EXISTING ITEMS TO BE REPLACED
- CONSTRUCTION NOTE SEE LEGEND BELOW

ELEVATION CONSTRUCTION NOTE LEGEND

1. BULLET RESISTANT HOLLOW METAL DOOR FRAME & HARDWARE AS SCHEDULED IN EXISTING MASONRY OPENING
2. EXISTING PROXIMITY READER INTERCONNECT TO ELECTRICAL DOOR LATCH RETRACTION DEVICE
3. EXISTING INTERCOM DEVICE INTERCONNECT TO ELECTRICAL DOOR LATCH RETRACTION DEVICE
4. HOLLOW METAL DOOR FRAME & HARDWARE AS SCHEDULED IN EXISTING MASONRY OPENING

DEPARTMENT OF MILITARY AFFAIRS AND VETERANS SERVICES
1 MINUTEMAN WAY CONCORD NH 03301
EXTERIOR DOOR UPGRADES
LEBANON READINESS CENTER
174 HEATER ROAD LEBANON, NH 03766

TURNER GROUP
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NEW HAMPSHIRE 1679 1961 LIVE FREE OR DIE NATIONAL GUARD

ISSUED FOR CONSTRUCTION
06/10/2026

PROJ. NO.	5434
SCALE:	As Indicated
DRAWN BY:	AS
CHECKED BY:	AMS
ISSUE DATE:	05/05/2026

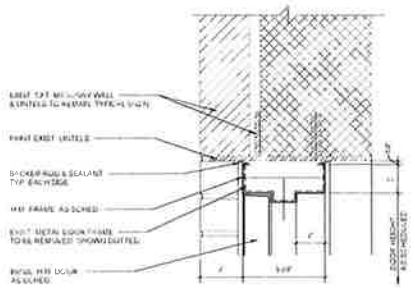
EXTERIOR ELEVATIONS

A1.2

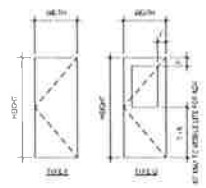
Initial:
Date: 6/2/2026

DOOR AND FRAME SCHEDULE

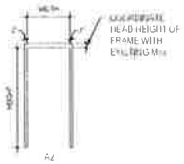
DOOR #	ROOM NAME	DOOR							FRAME			DETAIL LOCATION			FUNCTION	HARDWARE SET	DOOR NOTES
		DOOR TYPE	WIDTH	HEIGHT	THICKNESS	GLAZING TYPE	MAT.	FIN.	FRAME TYPE	MAT.	FIN.	HEAD	JAMB	SILL			
E101	CORRIDOR	DF/SW/L	3'-0"	7'-0"	1 3/4"	01	S.S.H.M.	PT-3/PT-4	A2	S.S.H.M.	PT-3/PT-4	102.1	102.1	102.1	ENTRY/EXIT	1	1, 2, 3, 4, 5
E102	ASSEMBLY HALL	DF/SW/L	3'-0"	7'-0"	1 3/4"	01	S.S.H.M.	PT-3/PT-4	A2	S.S.H.M.	PT-3/PT-4	102.1	102.1	102.1	ENTRY/EXIT	1	1, 2, 4
E103	ASSEMBLY HALL	DF/SW/L	3'-0"	7'-0"	1 3/4"	01	S.S.H.M.	PT-3/PT-4	A2	S.S.H.M.	PT-3/PT-4	102.1	102.1	102.1	ENTRY/EXIT	2	1, 2, 4
E104	ASSEMBLY HALL	H/SW/L	3'-0"	7'-0"	1 3/4"	01	S.S.H.M.	PT-3/PT-4	A2	S.S.H.M.	PT-3/PT-4	102.1	102.1	102.1	ENTRY/EXIT	3	1, 2, 4, 5
E105	BOILER ROOM	H/SW/L	6'-0"	8'-0"	1 3/4"	--	H.M.	PT-4	A2	H.M.	PT-4	102.1	102.1	102.1	ENTRY/EXIT	4	2, 4



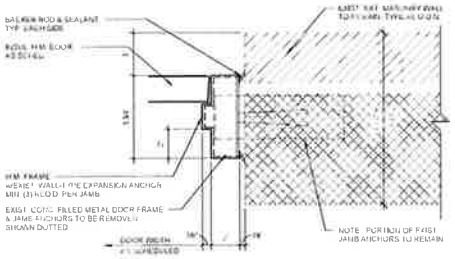
1 A2.1 HEAD DETAIL - H.M. DOOR REPLACEMENT
Scale 3" = 1'-0"



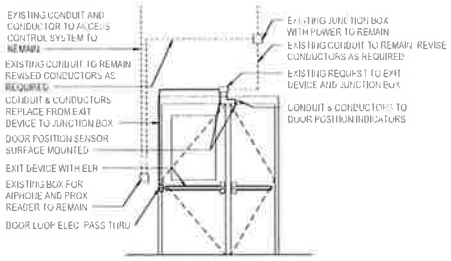
4 A2.1 DOOR TYPES
Scale 1/4" = 1'-0"



5 A2.1 FRAME TYPES
Scale 1/4" = 1'-0"



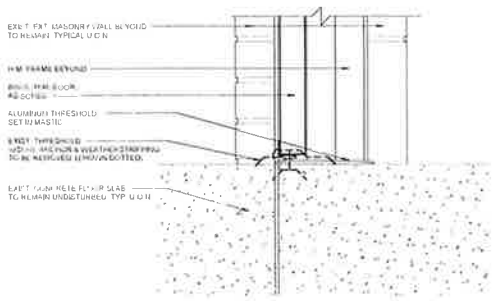
2 A2.1 JAMB DETAIL - H.M. DOOR REPLACEMENT
Scale 3" = 1'-0"



6 A2.1 DOOR E104 DIAGRAM
Scale 3/8" = 1'-0"



7 A2.1 DOOR E104 PHOTO
Scale 1" = 1'-0"



3 A2.1 THRESHOLD DETAIL - H.M. DOOR REPLACEMENT
Scale 3" = 1'-0"

DOOR SCHEDULE NOTES

1. PROVIDE LOCKING DEVICE AS SPECIFIED IN DOOR SCHEDULE AT ALL ENTRY AREAS.
2. COORDINATE ALL HOLLOW METAL FRAME THROAT DIMENSIONS WITH WALL CONSTRUCTION. VERIFY.
3. 1/2" X 6" X 6" KICK PLATE ON PUSH SIDE OF DOOR.
4. PROVIDE CLOSER.
5. PROVIDE PANIC HARDWARE ON EXIT DOOR.
6. NOTE: ACTIVE LEAF DOES NOT PROVIDE 32" MIN. TO PROVIDE ADA CLEARANCE THROUGH DOOR WITH HANDICAP LOCATION.
7. DOOR SHALL BE FURNISHED WITH MASTER KEYSWITCH.
8. DOOR SHALL BE FURNISHED WITH MINIMUM 8" HIGH METAL KICK PLATE ON PUSH SIDE OF DOOR.

DOOR SCHEDULE LEGEND

H.M. = HOLLOW METAL
PT. = PAINTED COLOR AS SELECTED BY OWNER

HARDWARE SETS

SEE SPECIFICATION SECTION 08 71 00 FOR HARDWARE SETS.

GLAZING TYPES

SEE SPECIFICATION SECTION 08 80 50 FOR GLAZING SCHEDULE

DEPARTMENT OF MILITARY AFFAIRS AND VETERANS SERVICES
1 MINUTEMAN WAY CONCORD NH 03301
EXTERIOR DOOR UPGRADES
LEBANON READINESS CENTER
174 HEATER ROAD LEBANON, NH 03766

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ISSUED FOR CONSTRUCTION
06/10/2026

DOOR SCHEDULE & DETAILS

A2.1

Initial: ____
Date: ____

State of New Hampshire
Department of State

CERTIFICATE

I, David M. Scanlan, Secretary of State of the State of New Hampshire, do hereby certify that TRIPLE CONSTRUCTION, LLC is a New Hampshire Limited Liability Company registered to transact business in New Hampshire on January 07, 2016. I further certify that all fees and documents required by the Secretary of State's office have been received and is in good standing as far as this office is concerned.

Business ID: **737136**
Certificate Number: **0007897238**

IN TESTIMONY WHEREOF,
I hereto set my hand and cause to be affixed
the Seal of the State of New Hampshire,
this 2nd day of April A.D. 2026.

David M. Scanlan
Secretary of State

Certificate of Authority #3 *(Limited partnership, Limited liability professional partnership or LLC)*

Limited Partnership or LLC Certification of Authority

I, Gino Bernard **, hereby certify** that I am a Partner, Member or
(Name of Attestor)

Manager and an Officer of Triple Construction LLC a limited liability partnership
(Name of Partnership or LLC)

under RSA 304-B, a limited liability professional partnership under RSA 304-D, or a limited liability company under RSA 304-C.

I certify that Kevin Cormier is duly authorized to bind the partnership or
(Name of Authorized Signatory)

LLC to enter into contracts or agreements on behalf of Triple Construction LLC
(Name of Partnership or LLC)

I further certify that it is understood that the State of New Hampshire will rely on this certificate as evidence that the person listed above currently occupies the position indicated and that they have full authority to bind the partnership or LLC and that this authorization **shall remain valid for thirty (30) days** from the date of this certificate.

DATED: 8.26.26

ATTESTOR: _____

NAME: Gino Bernard

TITLE: Member

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 08/26/2026

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Jennifer Barnes	
King Risk Partners, LLC 40 Stark St Manchester NH 03101	PHONE (A/C, No, Ext): (603) 647-0800	FAX (A/C, No):
	E-MAIL ADDRESS: Jennifer.Barnes@king-insurance.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Cincinnati Financial Corporation	C00311
INSURED Triple Construction LLC 237 Daniel Webster Hwy Merrimack NH 03054-4807	INSURER B : Cincinnati Financial Corporation	C00311
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** CL2642824381 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	[X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [ ] PRO-JECT [ ] LOC [ ] OTHER:			EPP 0713998	04/28/2026	04/28/2027	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG INJDW	$ 1,000,000 $ 100,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	AUTOMOBILE LIABILITY [X] ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [ ] HIRED AUTOS ONLY [ ] NON-OWNED AUTOS ONLY			EPP 0713998	04/28/2026	04/28/2027	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) BABE	$ 1,000,000 $ $ $ $
A	[X] UMBRELLA LIAB [X] OCCUR [ ] EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $			EPP 0713998	04/28/2026	04/28/2027	EACH OCCURRENCE AGGREGATE Completed Ops/Agg	$ 5,000,000 $ 5,000,000 $ 5,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N: Y If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		EWC0782093	07/17/2026	07/17/2027	[X] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
A								

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Project : NHARNG Lebanon Readiness Center - Door Replacement 174 Heater Road Lebanon NH. The State of New Hampshire Department of Military Affairs and Veterans Services are named as additional insured as respects GL as required by written contract. Waiver of subrogation applies where permitted by state law. Work performed during the policy period: Carpentry. Workers' compensation coverage applies in NH, MA & ME. Kevin Cormier is excluded from the workers' compensation coverage.

CERTIFICATE HOLDER

State of New Hampshire Department of Military
Affairs and Veteran Services
4 Pembroke Road
Concord NH 03301

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Jennifer Barnes

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THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

CONTRACTORS' COMMERCIAL GENERAL LIABILITY BROADENED ENDORSEMENT - NEW HAMPSHIRE

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

A. Endorsement - Table of Contents:

Coverage:	Begins on Page:
1. Employee Benefit Liability Coverage	2
2. Unintentional Failure To Disclose Hazards	8
3. Damage To Premises Rented To You	8
4. Supplementary Payments	10
5. Medical Payments	10
6. 180 Day Coverage For Newly Formed Or Acquired Organizations	10
7. Waiver Of Subrogation	10
8. Automatic Additional Insured - Specified Relationships:	10
(a) Managers Or Lessors Of Premises	
(b) Lessor Of Leased Equipment	
(c) Vendors	
(d) State Or Governmental Agency Or Subdivision Or Political Subdivision - Permits Or Authorizations Relating To Premises	
(e) Mortgagee, Assignee Or Receiver	
9. Property Damage To Borrowed Equipment	13
10. Employees As Insureds - Specified Health Care Services And Good Samaritan Services	14
11. Broadened Notice Of Occurrence	14
12. Nonowned Aircraft	14
13. Bodily Injury Redefined	15
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17. Broadened Contractual Liability - Work Within 50' Of Railroad Property	17
18. Alienated Premises	17

B. Limits Of Insurance:

The Commercial General Liability Limits of Insurance apply to the insurance provided by this endorsement, except as provided below:

1. Employee Benefit Liability Coverage

Each Employee Limit: $1,000,000
Aggregate Limit: $3,000,000
Deductible Amount: $ 1,000

3. Damage To Premises Rented To You

The lesser of:
a. The Each Occurrence Limit shown in the Declarations; or
b. $500,000 unless otherwise stated $ _____

4. Supplementary Payments

a. Bail Bonds: $2,500
b. Loss Of Earnings: $ 500

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5. Medical Payments

Medical Expense Limit: $10,000

9. Property Damage To Borrowed Equipment

Each Occurrence Limit: $10,000
Deductible Amount: $ 250

16. Voluntary Property Damage Coverage (Coverage D) and Care, Custody Or Control Liability Coverage

Limits Of Insurance
Voluntary Property Damage Coverage:
$1,000 Each Occurrence
$5,000 Aggregate
Care, Custody Or Control Liability Coverage:
$5,000 Each Occurrence unless otherwise stated $ _____

Deductible Amount (Each Occurrence)
Voluntary Property Damage Coverage: $250
Care, Custody Or Control Liability Coverage: $250 unless otherwise stated $ _____

COVERAGE	PREMIUM BASIS **(a)** Area **(b)** Payroll **(c)** Gross Sales **(d)** Units **(e)** Other	RATE (For Limits in Excess of $5,000)	ADVANCE PREMIUM (For Limits in Excess of $5,000)
Care, Custody Or Control Liability			**$**
		TOTAL ANNUAL PREMIUM	**$**

C. Coverages

1. Employee Benefit Liability Coverage

a. The following is added to **Section I - Coverages**:

EMPLOYEE BENEFIT LIABILITY COVERAGE

(1) Insuring Agreement

(a) We will pay those sums that the insured becomes legally obligated to pay as damages caused by any act, error or omission of the insured, or of any other person for whose acts the insured is legally liable, to which this insurance applies. We will have the right and duty to defend the insured against any "suit" seeking those damages. However, we will have no duty to defend against any "suit" seeking damages to which this insurance does not apply. We may, at our discretion, investigate any report of an act, error or omission and settle any claim or "suit" that may result. But:

1) The amount we will pay for damages is limited as described in **C.** Coverages, **1.** Employee Benefit Liability Coverage, **c.** Limits Of Insurance of this endorsement; and

2) Our right and duty to defend ends when we have used up the applicable limit of insurance in the payment of judgments or settlements.

No other obligation or liability to pay sums or perform acts or services is covered unless explicitly provided for under Supplementary Payments.

(b) This insurance applies to damages only if the act, error or omission is negligently committed in the "administration" of your "employee benefit program"; and

1) Occurs during the policy period; or

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2) Occurred prior to the "first effective date" of this endorsement provided:

a) You did not have knowledge of a claim or "suit" on or before the "first effective date" of this endorsement.

You will be deemed to have knowledge of a claim or "suit" when any insured listed under **C.** Coverages, **1.** Employee Benefit Liability Coverage, **b.** Who Is An Insured, **(1)** of this endorsement or any "employee" authorized by you to give or receive notice of a claim or "suit":

i) Reports all, or any part, of the act, error or omission to us or any other insurer;

ii) Receives a written or verbal demand or claim for damages because of the act, error or omission; and

b) There is no other applicable insurance.

(2) Exclusions

This insurance does not apply to:

(a) Bodily Injury, Property Damage Or Personal And Advertising Injury

"Bodily injury", "property damage" or "personal and advertising injury".

(b) Dishonest, Fraudulent, Criminal Or Malicious Act

Damages arising out of any intentional, dishonest, fraudulent, criminal or malicious act, error or omission, committed by any insured, including the violation of any statute.

(c) Failure To Perform A Contract

Damages arising out of failure of performance of contract by any insurer.

(d) Insufficiency Of Funds

Damages arising out of an insufficiency of funds to meet any obligations under any plan included in the "employee benefit program".

(e) Inadequacy Of Performance Of Investment/Advice Given With Respect To Participation

Any claim based upon:

1) Failure of any investment to perform;

2) Errors in providing information on past performance of investment vehicles; or

3) Advice given to any person with respect to that person's decision to participate or not to participate in any plan included in the "employee benefit program".

(f) Workers' Compensation And Similar Laws

Any claim arising out of your failure to comply with the mandatory provisions of any workers' compensation, unemployment compensation insurance, social security or disability benefits law or any similar law.

(g) ERISA

Damages for which any insured is liable because of liability imposed on a fiduciary by the Employee Retirement Income Security Act of 1974, as now or hereafter amended, or by any similar federal, state or local laws.

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(h) Available Benefits

Any claim for benefits to the extent that such benefits are available, with reasonable effort and cooperation of the insured, from the applicable funds accrued or other collectible insurance.

(i) Taxes, Fines Or Penalties

Taxes, fines or penalties, including those imposed under the Internal Revenue Code or any similar state or local law.

(j) Employment-Related Practices

Any liability arising out of any:

1) Refusal to employ;

2) Termination of employment;

3) Coercion, demotion, evaluation, reassignment, discipline, defamation, harassment, humiliation, discrimination or other employment-related practices, acts or omissions; or

4) Consequential liability as a result of **1)**, **2)** or **3)** above.

This exclusion applies whether the insured may be held liable as an employer or in any other capacity and to any obligation to share damages with or repay someone else who must pay damages because of the injury.

(3) Supplementary Payments

Section I - Supplementary Payments - Coverages **A** and **B** also apply to this Coverage, however **1.b.** and **2.** of the Supplementary Payments provision do not apply.

b. Who Is An Insured

As respects Employee Benefit Liability Coverage, **Section II - Who Is An Insured** is replaced by the following:

(1) If you are designated in the Declarations as:

(a) An individual, you and your spouse are insureds, but only with respect to the conduct of a business of which you are the sole owner.

(b) A partnership or joint venture, you are an insured. Your members, your partners, and their spouses are also insureds but only with respect to the conduct of your business.

(c) A limited liability company, you are an insured. Your members are also insureds, but only with respect to the conduct of your business. Your managers are insureds, but only with respect to their duties as your managers.

(d) An organization other than a partnership, joint venture or limited liability company, you are an insured. Your "executive officers" and directors are insureds, but only with respect to their duties as your officers or directors. Your stockholders are also insureds, but only with respect to their liability as stockholders.

(e) A trust, you are an insured. Your trustees are also insureds, but only with respect to their duties as trustees.

(2) Each of the following is also an insured:

(a) Each of your "employees" who is or was authorized to administer your "employee benefit program";

(b) Any persons, organizations or "employees" having proper temporary authorization to administer your "employee benefit program" if you die, but only until your legal representative is appointed; or

(c) Your legal representative if you die, but only with respect to duties as such. That representative will have all your rights and duties under this Coverage Part.

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(3) Any organization you newly acquire or form, other than a partnership, joint venture or limited liability company, and over which you maintain ownership or majority interest, will qualify as a Named Insured if no other similar insurance applies to that organization. However, coverage under this provision:

(a) Is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier; and

(b) Does not apply to any act, error or omission that was committed before you acquired or formed the organization.

c. Limits Of Insurance

As respects Employee Benefit Liability Coverage, **Section III - Limits Of Insurance** is replaced by the following:

(1) The Limits of Insurance shown in Section **B.** Limits Of Insurance, **1.** Employee Benefit Liability Coverage of this endorsement and the rules below fix the most we will pay regardless of the number of:

(a) Insureds;

(b) Claims made or "suits" brought;

(c) Persons or organizations making claims or bringing "suits";

(d) Acts, errors or omissions; or

(e) Benefits included in your "employee benefit program".

(2) The Aggregate Limit shown in Section **B.** Limits Of Insurance, **1.** Employee Benefit Liability Coverage of this endorsement is the most we will pay for all damages because of acts, errors or omissions negligently committed in the "administration" of your "employee benefit program".

(3) Subject to the limit described in **(2)** above, the Each Employee Limit shown in Section **B.** Limits Of Insurance, **1.** Employee Benefit Liability Coverage of this endorsement is the most we will pay for all damages sustained by any one "employee", including damages sustained by such "employee's" dependents and beneficiaries, as a result of:

(a) An act, error or omission; or

(b) A series of related acts, errors or omissions, regardless of the amount of time that lapses between such acts, errors or omissions;

negligently committed in the "administration" of your "employee benefit program".

However, the amount paid under this endorsement shall not exceed, and will be subject to the limits and restrictions that apply to the payment of benefits in any plan included in the "employee benefit program."

(4) **Deductible Amount**

(a) Our obligation to pay damages on behalf of the insured applies only to the amount of damages in excess of the Deductible Amount shown in Section **B.** Limits Of Insurance, **1.** Employee Benefit Liability Coverage of this endorsement as applicable to Each Employee. The limits of insurance shall not be reduced by the amount of this deductible.

(b) The Deductible Amount shown in Section **B.** Limits Of Insurance, **1.** Employee Benefit Liability Coverage of this endorsement applies to all damages sustained by any one "employee", including such "employee's" dependents and beneficiaries, because of all acts, errors or omissions to which this insurance applies.

(c) The terms of this insurance, including those with respect to:

1) Our right and duty to defend the insured against any "suits" seeking those damages; and

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2) Your duties, and the duties of any other involved insured, in the event of an act, error or omission, or claim;

apply irrespective of the application of the Deductible Amount.

(d) We may pay any part or all of the Deductible Amount to effect settlement of any claim or "suit" and, upon notification of the action taken, you shall promptly reimburse us for such part of the Deductible Amount as we have paid.

d. Additional Conditions

As respects Employee Benefit Liability Coverage, **Section IV - Commercial General Liability Conditions** is amended as follows:

(1) Item **2.** Duties In The Event Of Occurrence, Offense, Claim Or Suit is replaced by the following:

2. Duties In The Event Of An Act, Error, Omission, Claim Or Suit

a. You must see to it that we are notified as soon as practicable of an act, error or omission which may result in a claim. To the extent possible, notice should include:

(1) What the act, error or omission was and when it occurred; and

(2) The names and addresses of anyone who may suffer damages as a result of the act, error or omission.

b. If a claim is made or "suit" is brought against any insured, you must:

(1) Immediately record the specifics of the claim or "suit" and the date received; and

(2) Notify us as soon as practicable.

You must see to it that we receive written notice of the claim or "suit" as soon as practicable.

c. You and any other involved insured must:

(1) Immediately send us copies of any demands, notices, summonses or legal papers received in connection with the claim or "suit";

(2) Authorize us to obtain records and other information;

(3) Cooperate with us in the investigation or settlement of the claim or defense against the "suit"; and

(4) Assist us, upon our request, in the enforcement of any right against any person or organization which may be liable to the insured because of an act, error or omission to which this insurance may also apply.

d. No insured will, except at that insured's own cost, voluntarily make a payment, assume any obligation, or incur any expense without our consent.

(2) Item **4.** Other Insurance is replaced by the following:

4. Other Insurance

If other valid and collectible insurance is available to the insured for a loss we cover under this Employee Benefit Liability Coverage, our obligations are limited as follows:

a. Primary Insurance

This insurance is primary except when **c.** below applies. If this insurance

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is primary, our obligations are not affected unless any of the other insurance is also primary. Then, we will share with all that other insurance by the method described in Paragraph **b.** below.

b. Method Of Sharing

If all of the other insurance permits contribution by equal shares, we will follow this method also. Under this approach each insurer contributes equal amounts until it has paid its applicable limit of insurance or none of the loss remains, whichever comes first.

If any of the other insurance does not permit contribution by equal shares, we will contribute by limits. Under this method, each insurer's share is based on the ratio of its applicable limit of insurance to the total applicable limits of insurance of all insurers.

c. No Coverage

This insurance shall not cover any loss for which the insured is entitled to recovery under any other insurance in force previous to the effective date of this Employee Benefit Liability Coverage.

e. Additional Definitions

As respects Employee Benefit Liability Coverage, **Section V - Definitions** is amended as follows:

(1) The following definitions are added:

1. "Administration" means:

a. Providing information to "employees", including their dependents and beneficiaries, with respect to eligibility for or scope of "employee benefit programs";

b. Interpreting the "employee benefit programs";

c. Handling records in connection with the "employee benefit programs"; or

d. Effecting, continuing or terminating any "employee's" participation in any benefit included in the "employee benefit program".

However, "administration" does not include:

a. Handling payroll deductions; or

b. The failure to effect or maintain any insurance or adequate limits of coverage of insurance, including but not limited to unemployment insurance, social security benefits, workers' compensation and disability benefits.

2. "Cafeteria plans" means plans authorized by applicable law to allow "employees" to elect to pay for certain benefits with pre-tax dollars.

3. "Employee benefit programs" means a program providing some or all of the following benefits to "employees", whether provided through a "cafeteria plan" or otherwise:

a. Group life insurance; group accident or health insurance; dental, vision and hearing plans; and flexible spending accounts; provided that no one other than an "employee" may subscribe to such benefits and such benefits are made generally available to those "employees" who satisfy the plan's eligibility requirements;

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b. Profit sharing plans, employee savings plans, employee stock ownership plans, pension plans and stock subscription plans, provided that no one other than an "employee" may subscribe to such benefits and such benefits are made generally available to all "employees" who are eligible under the plan for such benefits;

c. Unemployment insurance, social security benefits, workers' compensation and disability benefits; and

d. Vacation plans, including buy and sell programs; leave of absence programs, including military, maternity, family, and civil leave; tuition assistance plans; transportation and health club subsidies.

4. "First effective date" means the date upon which coverage was first effected in a series of uninterrupted renewals of insurance coverage.

(2) The following definitions are deleted in their entirety and replaced by the following:

5. "Employee" means a person actively employed, formerly employed, on leave of absence or disabled, or retired. "Employee" includes a "leased worker". "Employee" does not include a "temporary worker".

18. "Suit" means a civil proceeding in which money damages because of an act, error or omission to which this insurance applies are alleged. "Suit" includes:

a. An arbitration proceeding in which such damages are claimed and to which the insured must submit or does submit with our consent;

b. Any other alternative dispute resolution proceeding in which such damages are claimed and to which the insured submits with our consent; or

c. An appeal of a civil proceeding.

2. Unintentional Failure To Disclose Hazards

Section IV - Commercial General Liability Conditions, 6. Representations is amended by the addition of the following:

Based on our dependence upon your representations as to existing hazards, if unintentionally you should fail to disclose all such hazards at the inception date of your policy, we will not reject coverage under this Coverage Part based solely on such failure.

3. Damage To Premises Rented To You

a. The last paragraph of **2. Exclusions** under **Section I - Coverage A - Bodily Injury And Property Damage Liability** is replaced by the following:

Exclusions **c.** through **n.** do not apply to damage by fire, explosion, lightning, smoke or soot to premises while rented to you or temporarily occupied by you with permission of the owner, for which the amount we will pay is limited to the Damage To Premises Rented To You Limit as described in Section **III** - Limits Of Insurance.

b. The insurance provided under Section **I** - Coverage **A** - Bodily Injury And Property Damage Liability applies to "property damage" arising out of water damage to premises that are both rented to and occupied by you.

As respects Water Damage Legal Liability, as provided in Paragraph **3.b.** above:

The exclusions under Section **I** - Coverage **A** - Bodily Injury And Property Damage Liability, **2.** Exclusions, other than **i.** War and the Nuclear Energy Liability Exclusion (Broad Form), are deleted and the following are added:

This insurance does not apply to:

(a) "Property damage":

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(i) Assumed in any contract or agreement; or

(ii) Caused by or resulting from any of the following:

1) Wear and tear;

2) Rust or other corrosion, decay, deterioration, hidden or latent defect or any quality in property that causes it to damage or destroy itself;

3) Smog;

4) Mechanical breakdown, including rupture or bursting caused by centrifugal force;

5) Settling, cracking, shrinking or expansion;

6) Nesting or infestation, or discharge or release of waste products or secretions, by insects, birds, rodents or other animals; or

7) Presence, growth, proliferation, spread or any activity of fungus, including mold or mildew, and any mycotoxins, spores, scents or byproducts produced or released by fungi.

(b) "Property damage" caused directly or indirectly by any of the following:

(i) Earthquake, volcanic eruption, landslide or any other earth movement;

(ii) Water that backs up or overflows or is otherwise discharged from a sewer, drain, sump, sump pump or related equipment;

(iii) Water under the ground surface pressing on, or flowing or seeping through:

1) Foundations, walls, floors or paved surfaces;

2) Basements, whether paved or not; or

3) Doors, windows or other openings.

(c) "Property damage" caused by or resulting from water that leaks or flows from plumbing, heating, air conditioning, fire protection systems, or other equipment, caused by or resulting from freezing, unless:

(i) You did your best to maintain heat in the building or structure; or

(ii) You drained the equipment and shut off the water supply if the heat was not maintained.

(d) "Property damage" to:

(i) Plumbing, heating, air conditioning, fire protection systems, or other equipment or appliances; or

(ii) The interior of any building or structure, or to personal property in the building or structure, caused by or resulting from rain, snow, sleet or ice, whether driven by wind or not.

c. Limit Of Insurance

With respect to the insurance afforded in Paragraphs **3.a.** and **3.b.** above, the Damage To Premises Rented To You Limit as shown in the Declarations is amended as follows:

(1) Paragraph **6.** of Section **III** - Limits Of Insurance is replaced by the following:

6. Subject to Paragraph **5.** above, the Damage To Premises Rented To You Limit is the most we will pay under Coverage **A** - Bodily Injury And Property Damage Liability for damages because of "property damage" to any one premises:

a. While rented to you, or temporarily occupied by you with permission of the owner;

b. In the case of damage by fire, explosion, lightning, smoke or soot, while rented to you; or

c. In the case of damage by water, while rented to and occupied by you.

(2) The most we will pay is limited as described in Section **B.** Limits Of

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Insurance, **3.** Damage To Premises Rented To You of this endorsement.

4. Supplementary Payments

Under **Section I - Supplementary Payments - Coverages A and B**:

a. Paragraph **1.b.** is replaced by the following:

Up to the limit shown in Section **B.** Limits Of Insurance, **4.a.** Bail Bonds of this endorsement for cost of bail bonds required because of accidents or traffic law violations arising out of the use of any vehicle to which the Bodily Injury Liability Coverage applies. We do not have to furnish these bonds.

b. Paragraph **1.d.** is replaced by the following:

All reasonable expenses incurred by the insured at our request to assist us in the investigation or defense of the claim or "suit", including actual loss of earnings up to the limit shown in Section **B.** Limits Of Insurance, **4.b.** Loss Of Earnings of this endorsement per day because of time off from work.

5. Medical Payments

The Medical Expense Limit of Any One Person as shown in the Declarations is amended to the limit shown in Section **B.** Limits Of Insurance, **5.** Medical Payments of this endorsement.

6. 180 Day Coverage For Newly Formed Or Acquired Organizations

Section II - Who Is An Insured is amended as follows:

Subparagraph **a.** of Paragraph **3.** is replaced by the following:

a. Coverage under this provision is afforded only until the 180th day after you acquire or form the organization or the end of the policy period, whichever is earlier;

7. Waiver Of Subrogation

Section IV - Commercial General Liability Conditions, 8. Transfer Of Rights Of Recovery Against Others To Us is amended by the addition of the following:

We waive any right of recovery against any additional insured under this endorsement, because of any payment we make under this endorsement, to whom the insured has waived its right of recovery in a written contract, written agreement, written permit or written authorization. Such waiver by us applies only to the extent that the insured has waived its right of recovery against such additional insured prior to loss.

8. Automatic Additional Insured - Specified Relationships

a. The following is added to **Section II - Who Is An Insured**:

(1) Any person(s) or organization(s) described in Paragraph **8.a.(2)** of this endorsement (hereinafter referred to as additional insured) whom you are required to add as an additional insured under this Coverage Part by reason of a written contract, written agreement, written permit or written authorization.

(2) Only the following persons or organizations are additional insureds under this endorsement, and insurance coverage provided to such additional insureds is limited as provided herein:

(a) Managers Or Lessors Of Premises

The manager or lessor of a premises leased to you you are required per Paragraph **8.a.(1)** of this endorsement to provide insurance, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by you or those acting on your behalf in connection with the ownership, maintenance or use of that part of the premises leased to you, subject to the following additional exclusions:

This insurance does not apply to:

(i) Any "occurrence" which takes place after you cease to be a tenant in that premises;

(ii) Structural alterations, new construction or demolition operations performed by or on be-

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half of such additional insured.

(b) Lessor Of Leased Equipment

Any person(s) or organization(s) from whom you lease equipment you are required per Paragraph **8.a.(1)** of this endorsement to provide insurance. Such person(s) or organization(s) are insureds only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by your maintenance, operation or use of equipment leased to you by such person(s) or organization(s). A person's or organization's status as an additional insured under this endorsement ends when their contract or agreement with you for such leased equipment ends. However, this insurance does not apply to any "occurrence" which takes place after the equipment lease expires.

(c) Vendors

Any person or organization (referred to below as vendor) you are required per Paragraph **8.a.(1)** of this endorsement to provide insurance, but only with respect to liability for "bodily injury" or "property damage" arising out of "your products" which are distributed or sold in the regular course of the vendor's business, subject to the following additional exclusions:

(i) The insurance afforded the vendor does not apply to:

1) "Bodily injury" or "property damage" for which the vendor is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that the vendor would have in the absence of the contract or agreement;

2) Any express warranty unauthorized by you;

3) Any physical or chemical change in the product made intentionally by the vendor;

4) Repackaging, except when unpacked solely for the purpose of inspection, demonstration, testing, or the substitution of parts under instructions from the manufacturer, and then repackaged in the original container;

5) Any failure to make such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products;

6) Demonstration, installation, servicing or repair operations, except such operations performed at the vendor's premises in connection with the sale of the product;

7) Products which, after distribution or sale by you, have been labeled or relabeled or used as a container, part or ingredient of any other thing or substance by or for the vendor; or

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8) "Bodily injury" or "property damage" arising out of the sole negligence of the vendor for its own acts or omissions or those of its employees or anyone else acting on its behalf. However, this exclusion does not apply to:

a) The exceptions contained in Paragraphs **(c)(i)4)** or **6)** of this endorsement; or

b) Such inspections, adjustments, tests or servicing as the vendor has agreed to make or normally undertakes to make in the usual course of business, in connection with the distribution or sale of the products.

(ii) This insurance does not apply to any insured person or organization:

1) From whom you have acquired such products, or any ingredient, part or container, entering into, accompanying or containing such products; or

2) When liability included within the "products-completed operations hazard" has been excluded under this Coverage Part with respect to such products.

(d) State Or Governmental Agency Or Subdivision Or Political Subdivision - Permits Or Authorizations Relating To Premises

Any state or governmental agency or subdivision or political subdivision you are required per Paragraph **8.a.(1)** of this endorsement to provide insurance, subject to the following additional provision:

This insurance applies only with respect to the following hazards for which the state or governmental agency or subdivision or political subdivision has issued a permit or authorization in connection with premises you own, rent or control and to which this insurance applies:

(i) The existence, maintenance, repair, construction, erection or removal of advertising signs, awnings, canopies, cellar entrances, coal holes, driveways, manholes, marquees, hoist away openings, sidewalk vaults, street banners or decorations and similar exposures;

(ii) The construction, erection or removal of elevators; or

(iii) The ownership, maintenance or use of any elevators covered by this insurance.

(e) Mortgagee, Assignee Or Receiver

Any person or organization you are required per Paragraph **8.a.(1)** of this endorsement to provide insurance, but only with respect to their liability as mortgagee, assignee or receiver and arising out of the ownership, maintenance or use of the premises by you. However, this insurance does not apply to structural alterations, new construction and demolition operations performed by or for that person or organization.

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(3) The insurance afforded to additional insureds described in Paragraph **8.a.(1)** of this endorsement:

(a) Only applies to the extent permitted by law;

(b) Will not be broader than that which you are required by the written contract, written agreement, written permit or written authorization to provide for such additional insured; and

(c) Does not apply to any person, organization, vendor, state, governmental agency or subdivision or political subdivision, specifically named as an additional insured under any other provision of, or endorsement added to, this Coverage Part, provided such other provision or endorsement covers the injury or damage for which this insurance applies.

b. With respect to the insurance afforded to the additional insureds described in Paragraph **8.a.(1)** of this endorsement, the following is added to **Section III - Limits Of Insurance**:

The most we will pay on behalf of the additional insured is the amount of insurance:

(1) Required by the written contract, written agreement, written permit or written authorization described in Paragraph **8.a.(1)** of this endorsement. For the purpose of determining the required amount of insurance only, we will include the minimum amount of any Umbrella liability or Excess Liability coverage required for that additional insured in that written contract, written agreement, written permit or written authorization; or

(2) Available under the applicable limits of insurance;

whichever is less.

This endorsement shall not increase the applicable limits of insurance.

c. **Section IV - Commercial General Liability Conditions** is amended to include the following:

Automatic Additional Insured Provision

This insurance applies only if the "bodily injury" or "property damage" occurs, or the "personal and advertising injury" offense is committed:

(1) During the policy period; and

(2) Subsequent to your execution of the written contract or written agreement, or the issuance of a written permit or written authorization, described in Paragraph **8.a.(1)**.

d. **Section IV - Commercial General Liability Conditions** is amended as follows:

Condition **4.** Other Insurance is amended to include:

Primary And Noncontributory Insurance

This insurance is primary to and will not seek contribution from any other insurance available to an additional insured per Paragraph **8.a.(1)** of this endorsement provided that:

(1) The additional insured is a Named Insured under such other insurance; and

(2) You have agreed in writing in a contract, agreement, permit or authorization described in **8.a.(2)** of this endorsement that this insurance would be primary and would not seek contribution from any other insurance available to the additional insured.

9. **Property Damage To Borrowed Equipment**

a. The following is added to Exclusion **2.j.** Damage To Property under Section **I** - Coverage **A** - Bodily Injury And Property Damage Liability:

Paragraphs **(3)** and **(4)** of this exclusion do not apply to tools or equipment loaned to you, provided they are not being used to perform operations at the time of loss.

b. With respect to the insurance provided by this section of the endorsement, the following additional provisions apply:

(1) The Limits of Insurance shown in the Declarations are replaced by the limits shown in Section **B.**

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Limits Of Insurance, **9.** Property Damage To Borrowed Equipment of this endorsement with respect to coverage provided by this endorsement. These limits are inclusive of and not in addition to the limits being replaced. The Limits of Insurance shown in Section **B.** Limits Of Insurance, **9.** Property Damage To Borrowed Equipment of this endorsement fix the most we will pay in any one "occurrence" regardless of the number of:

(a) Insureds;

(b) Claims made or "suits" brought; or

(c) Persons or organizations making claims or bringing "suits".

(2) Deductible Clause

(a) Our obligation to pay damages on your behalf applies only to the amount of damages for each "occurrence" which are in excess of the Deductible Amount shown in Section **B.** Limits Of Insurance, **9.** Property Damage To Borrowed Equipment of this endorsement. The limits of insurance will not be reduced by the application of such deductible amount.

(b) Section **IV** - Commercial General Liability Conditions, **2.** Duties In The Event Of Occurrence, Offense, Claim Or Suit, applies to each claim or "suit" irrespective of the amount.

(c) We may pay any part or all of the deductible amount to effect settlement of any claim or "suit" and, upon notification of the action taken, you shall promptly reimburse us for such part of the deductible amount as has been paid by us.

10. Employees As Insureds - Specified Health Care Services And Good Samaritan Services

Paragraph **2.a.(1)(d)** under Section **II** - Who Is An Insured does not apply to:

1) Your "employees" who provide professional health care services on your behalf as a duly licensed nurse, emergency medical technician or paramedic in the jurisdiction where an "occurrence" or offense to which this insurance applies takes place; or

2) Your "employees" or "volunteer workers", other than an employed or volunteer doctor, providing first aid or good samaritan services during their work hours for you will be deemed to be acting within the scope of their employment by you or performing duties related to the conduct of your business.

11. Broadened Notice Of Occurrence

Paragraph **a.** of Condition **2. Duties In The Event Of Occurrence, Offense, Claim Or Suit** under **Section IV - Commercial General Liability Conditions** is replaced by the following:

a. You must see to it that we are notified as soon as practicable of an "occurrence" or an offense which may result in a claim. To the extent possible, notice should include:

(1) How, when and where the "occurrence" or offense took place;

(2) The names and addresses of any injured persons and witnesses; and

(3) The nature and location of any injury or damage arising out of the "occurrence" or offense.

This requirement applies only when the "occurrence" or offense is known to any insured listed under Paragraph **1.** of Section **II** - Who Is An Insured or any "employee" authorized by you to give or receive notice of an "occurrence" or offense.

12. Nonowned Aircraft

The following is added to Exclusion **2.g. Aircraft, Auto Or Watercraft** under **Section I - Coverage A - Bodily Injury And Property Damage Liability**:

This exclusion does not apply to an aircraft you do not own, provided that:

a. The pilot in command holds a current effective certificate, issued by a duly constituted authority of the United States of America or Canada, designating that person as a commercial or airline transport pilot;

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b. The aircraft is rented with a trained, paid crew; and

c. The aircraft does not transport persons or cargo for a charge.

13. Bodily Injury Redefined

Section V - Definitions, 3. "Bodily injury" is replaced by the following:

3. "Bodily injury" means bodily harm or injury, sickness, disease, humiliation, shock, fright, mental anguish or mental injury, including care, loss of services or death resulting from any of these at any time.

14. Expected Or Intended Injury Redefined

The last sentence of Exclusion **2.a. Expected Or Intended Injury** under **Section I - Coverage A - Bodily Injury And Property Damage Liability** is replaced by the following:

This exclusion does not apply to "bodily injury" or "property damage" resulting from the use of reasonable force to protect persons or property.

15. Former Employees As Insureds

The following is added to Paragraph **2.** under **Section II - Who Is An Insured:**

2. Each of the following is also an insured:

Any of your former "employees", directors, managers, members, partners or "executive officers", including but not limited to retired, disabled or those on leave of absence, but only for acts within the scope of their employment by you or for duties related to the conduct of your business.

16. Voluntary Property Damage Coverage

a. **Section I - Coverages** is amended to include the following:

COVERAGE D - VOLUNTARY PROPERTY DAMAGE COVERAGE

(1) Insuring Agreement

(a) We will pay the cost to repair or replace "property damage" to property of others arising out of operations incidental to your business when:

1) Damage is caused by you; or

2) Damage occurs while in your possession.

At your written request, we will make this payment regardless of whether you are at fault for the "property damage".

If you, at our request, replace, or make any repairs to, damaged property of others, the amount we will pay under Voluntary Property Damage Coverage will be determined by your actual cost to replace or repair the damaged property, excluding any profit or overhead.

Any payment we make under Voluntary Property Damage Coverage shall not be interpreted as an admission of liability by you or by us.

It shall be your duty, not our duty, to defend any claim or "suit" to which this insurance applies.

No other obligation or liability to pay sums or perform acts or services is covered.

(b) This insurance applies to "property damage" only if:

1) The "property damage" takes place in the "coverage territory"; and

2) The "property damage" occurs during the policy period.

(2) Exclusions

This insurance does not apply to "property damage" that would be excluded by Coverage **A** - Bodily Injury And Property Damage Liability, **2.** Exclusions, except for **j.** Damage To Property, Paragraphs **(3)**, **(4)**, **(5)** and **(6)**, **k.** Damage To Your Product, and **l.** Damage To Your Work.

(3) Definitions

For purposes of Voluntary Property Damage Coverage only, the following definitions under **Section V - Definitions** are replaced by the following:

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13. "Occurrence" means an incident, including continuous or repeated exposure to substantially the same general harmful conditions that result in "property damage".

17. "Property damage" means physical injury to tangible property. Electronic data is not tangible property, and "property damage" does not include disappearance, abstraction or theft.

As used in this definition, electronic data means information, facts or programs, stored as or on, created or used on, transmitted to or from computer software, including systems and applications software, hard or floppy disks, CD-ROMs, tapes, drives, cells, data processing devices or any other media which are used with electronically controlled equipment.

b. Care, Custody Or Control Liability Coverage

For purposes of the coverage provided by Care, Custody Or Control Liability Coverage in this endorsement only:

(1) Section **I** - Coverage **A** - Bodily Injury And Property Damage Liability, **2.** Exclusions, **j.** Damage To Property, Paragraphs **(3)**, **(4)** and **(5)** do not apply to "property damage" to the property of others described therein.

(2) It shall be your duty, not our duty, to defend any claim or "suit" to which this insurance applies.

No other obligation or liability to pay sums or perform acts or services is covered.

This Paragraph **(2)** supersedes any provision in the Coverage Part to the contrary.

(3) "Property damage" for which Care, Custody Or Control Liability Coverage provides coverage shall be deemed to be caused by an "occurrence" but shall not serve to limit or restrict the applicability of any exclusion for "property damage" under this Coverage Part.

c. Limits Of Insurance And Deductibles

For purposes of the coverage provided by Voluntary Property Damage Coverage and Care, Custody Or Control Liability Coverage, **Section III - Limits Of Insurance** is amended to include the following:

(1) The Limits of Insurance shown in the Declarations are replaced by the limits shown in Section **B.** Limits Of Insurance, **16.** Voluntary Property Damage Coverage and Care, Custody Or Control Liability Coverage in this endorsement. These limits are inclusive of, and not in addition to, the limits being replaced. The Limits of Insurance shown in the Schedule fix the most we will pay regardless of the number of:

(a) Insureds;

(b) Claims made or "suits" brought; or

(c) Persons or organizations making claims or bringing "suits".

(2) (a) Subject to **(3)** below, the Voluntary Property Damage Coverage Each Occurrence Limit Of Insurance is the most we will pay for the sum of damages under Voluntary Property Damage Coverage;

(b) The Care, Custody Or Control Liability Coverage Each Occurrence Limit Of Insurance is the most we will pay for the sum of damages under Care, Custody Or Control Liability Coverage;

because of all "property damage" arising out of any one "occurrence".

(3) The Voluntary Property Damage Coverage, Aggregate Limit Of Insurance is the most we will pay for the sum of all damages under Voluntary Property Damage Coverage. This limit applies separately to each "coverage term".

(4) Deductible Clause

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(a) Our obligation to pay damages on your behalf applies only to the amount of damages for each "occurrence" which are in excess of the Deductible Amount shown in Section **B.** Limits Of Insurance, **16.** Voluntary Property Damage Coverage and Care, Custody Or Control Liability Coverage. The limits of insurance will not be reduced by the application of such Deductible Amount.

(b) Section **IV** - Commercial General Liability Conditions, **2.** Duties In The Event Of Occurrence, Offense, Claim Or Suit, applies to each claim or "suit" irrespective of the amount.

(c) We may pay any part or all of the Deductible Amount to effect settlement of any claim or "suit" and, upon notification of the action taken, you shall promptly reimburse us for such part of the Deductible Amount as has been paid by us.

17. Broadened Contractual Liability - Work Within 50' Of Railroad Property

Section V - Definitions, 9. "Insured contract" is amended as follows:

a. Paragraph **c.** is replaced by the following:

c. Any easement or license agreement;

b. Paragraph **f.(1)** is deleted in its entirety.

18. Alienated Premises

Exclusion **2.j.** Damage To Property, Paragraph **(2)** under Section **I** - Coverage **A** - Bodily Injury And Property Damage Liability does not apply if the premises are "your work".

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Performance Bond

Bond # GM257566

KNOW ALL MEN BY THESE PRESENTS: Triple Construction, LLC
237 Daniel webster Highway, Merrimack, NH 03054

as Principal and Great Midwest Insurance Company, Houston, Texas

as Surety, hereinafter called Surety, are held and firmly bound unto

Department of Military Affairs and Veterans Services
1 Minuteman Way
Concord, NH 03301

as Obligee, hereinafter called Owner, for the use and benefit of claimants as hereinbelow defined, in the amount of

One-Hundred-Fifty-Eight-Thousand-Seven-Hundred-Fifty-Four-Dollars-and No-Cents ($158,754.00)

for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEAREAS,

Contractor has by written agreement dated the 14th of August, 2026 for
Center Strafford MEP Upgrade, Door Replacement

which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIFATION is such that, if contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety herby waives notice of any alteration or extension of time made by the Owner.

Whenever Contractor shall be, and declared by Owner to be in default under the Contract, the Owner having preformed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly

1) Complete the Contract in accordance with its terms and conditions, or

2) Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and upon determination by Surety of the lowest responsible bidder, or, if the Owner elects, upon determination by the Owner and the Surety jointly of the lowest responsible Owner and the Surety jointly of the lowest responsible bidder, arrange for a contract between such bidder and Owner, and make available as Work progresses (even though there should be a default or succession of defaults under the contract or contracts of completion arranged under this paragraph sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable herunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by Owner to Contractor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

Any suit under this bond must be instituted before the expiration of two (2) years from the date on which final payment under the Contract falls due.

No right of action shall accrue on this bond to or for the use of any person or corporation other than the Owner named herein or the heirs, executors, administrators or successors of the Owner.

TRIPLE CONSTRUCTION LLC LIMITED LIABILITY SEAL 2016 NEW HAMPSHIRE COMPANY

Signed and sealed this 26th day of August, 2026

(Witness)

Triple Construction LLC. (Seal)
(Principal)

Member
(Title)

(Witness)

Great Midwest Insurance Company (Seal)
(Surety)

William J. Infantine Attorney-in-Fact

POWER OF ATTORNEY

Great Midwest Insurance Company

KNOW ALL MEN BY THESE PRESENTS, that **GREAT MIDWEST INSURANCE COMPANY**, a Texas Corporation, with its principal office in Houston, TX, does hereby constitute and appoint: **William J. Infantine, Kathleen Kelley, Jessica Lak**

its true and lawful Attorney(s)-In-Fact to make, execute, seal and deliver for, and on its behalf as surety, any and all bonds, undertakings or other writings obligatory in nature of a bond.

This authority is made under and by the authority of a resolution which was passed by the Board of Directors of **GREAT MIDWEST INSURANCE COMPANY**, on the 1st day of April, 2025 as follows:

Resolved, that the President, or any officer, be and hereby is, authorized to appoint and empower any representative of the Company or other person or persons as Attorney-In-Fact to execute on behalf of the Company any bonds, undertakings, policies, contracts of indemnity or other writings obligatory in nature of a bond not to exceed One-Hundred Million dollars ($100,000,000.00), which the Company might execute through its duly elected officers, and affix the seal of the Company thereto. Any said execution of such documents by an Attorney-In-Fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company. Any Attorney-In-Fact, so appointed, may be removed in the Company's sole discretion and the authority so granted may be revoked as specified in the Power of Attorney

Resolved, that the signature of the President and the seal of the Company may be affixed by electronic mail on any power of attorney granted, and the signature of the Secretary, and the seal of the Company may be affixed by electronic mail to any certificate of any such power and any such power or certificate bearing such electronic signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certificate so executed and sealed shall, with respect to any bond of undertaking to which it is attached, continue to be valid and binding on the Company

IN WITNESS THEREOF, **GREAT MIDWEST INSURANCE COMPANY**, has caused this instrument to be signed by its President, and its Corporate Seal to be affixed this 8th day of April, 2025.

GREAT MIDWEST INSURANCE COMPANY — CORPORATE SEAL — TEXAS CORPORATION

GREAT MIDWEST INSURANCE COMPANY

BY Mark W. Haushill

Mark W. Haushill
President

ACKNOWLEDGEMENT

On this 8th day of April 2025, before me, personally came Mark W. Haushill to me known, who being duly sworn, did depose and say that he is the President of **GREAT MIDWEST INSURANCE COMPANY**, the corporation described in and which executed the above instrument; that he executed said instrument on behalf of the corporation by authority of his office under the By-laws of said corporation.

CHRISTINA BISHOP
My Notary ID # 131090488
Expires April 14, 2029

BY Christina Bishop

Christina Bishop
Notary Public

CERTIFICATE

I, the undersigned, Secretary of **GREAT MIDWEST INSURANCE COMPANY**, A Texas Insurance Company, DO HEREBY CERTIFY that the original Power of Attorney of which the foregoing is a true and correct copy, is in full force and effect and has not been revoked and the resolutions as set forth are now in force.

Signed and Sealed at Houston, TX this 26th Day of August 2026.

GREAT MIDWEST INSURANCE COMPANY — CORPORATE SEAL — TEXAS CORPORATION

BY Patricia Ryan

Patricia Ryan
Secretary

"WARNING: Any person who knowingly and with intent to defraud any insurance company or other person, files and application for insurance of claim containing any materially false information, or conceals for the purpose of misleading, information concerning any fact material thereto, commits a fraudulent insurance act, which is a crime and subjects such person to criminal and civil penalties.

Labor and Material Payment Bond

Bond#GM257565

KNOW ALL MEN BY THESE PRESENTS: Triple Construction LLC
237 Daniel Webster Highway, Merrimack, NH 03054

as Principal, hereinafter called Principal, and

Great Midwest Insurance Company, Houston, Texas

as Surety, hereinafter called Surety, are held and firmly bound unto

Department of Military Affairs and Veterans Services
1 Minuteman Way
Concord, NH 03301

as Obligee, hereinafter called Owner, for the use and benefit of claimants as hereinbelow defined, in the amount of

One-Hundred-Fifty-Eight-Thousand-Seven-Hundred-Fifty-Four-Dollars-and No-Cents ($158,754.00)

for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEAREAS,

Contractor has by written agreement dated the 14th of August, 2026 for
Center Strafford MEP Upgrade, Door Replacement

which contract is by reference made a part hereof and is hereinafter referred to as the Contract.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Principal shall promptly make payment to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the contract, then this obligation shall be void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

1.A claimant is defined as one having a direct contract with the Principal or with a Subcontractor of the Principal for labor, material, or both, used or reasonably required for use in the performance of the Contract, labor and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment directly applicable to the Contract.

2.The above named Principal and Surety hereby jointly and severally agree with the Owner that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or preformed, or materials were furnished by such claimant, may sue on this bond for the use of such claimant, prosecute the suite to final judgment for such sum or sums as may be justly due claimant, and have execution hereon. The Owner shall not be liable for the payment of any costs or expenses of any such suit.

3.No suit or action shall be commenced hereunder by any claimant:

a) unless claimant, other than one having a direct contract with the Principal, shall have given written notice to any two of the following: The Principal, the Owner, or the Surety above named, within ninety (90) days after such claimant did or preformed the last of the work or labor , or furnished the last of the materials for which said claim is made, stating with substantial, accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail or certified mail, postage prepaid, in an envelope addressed to the Principal, Owner or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the stat in which the aforesaid project is located, save that such service need not be made by a public officer.

b) After the expiration of one (1) year following the date on which Principal ceased Work on said Contract, it being understood, however, that if any limitation embodied in this bond is prohibited by any law controlling the construction hereof such limitation shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by such law.

c)Other than in a state court of competent jurisdiction in and for the county or other political subdivision of the state in which the Project, or any part thereof, is situated, and not elsewhere.

4. The amount of this bond shall be reduced by and to the extent of any payment of payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

Signed and sealed this 26th day of August, 2026

Julie Paulin
(Witness)

Kathy Kelley
(Witness)

_Triple Construction LLC._____
(Principal) (Seal)

Member
(Title)

___Great Midwest Insurance Company___
(Surety) (Seal)

William J. Infantine Attorney-in-Fact

POWER OF ATTORNEY

Great Midwest Insurance Company

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Resolved, that the President, or any officer, be and hereby is, authorized to appoint and empower any representative of the Company or other person or persons as Attorney-In-Fact to execute on behalf of the Company any bonds, undertakings, policies, contracts of indemnity or other writings obligatory in nature of a bond not to exceed One-Hundred Million dollars ($100,000,000.00), which the Company might execute through its duly elected officers, and affix the seal of the Company thereto. Any said execution of such documents by an Attorney-In-Fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company. Any Attorney-In-Fact, so appointed, may be removed in the Company's sole discretion and the authority so granted may be revoked as specified in the Power of Attorney.

Resolved, that the signature of the President and the seal of the Company may be affixed by electronic mail on any power of attorney granted, and the signature of the Secretary, and the seal of the Company may be affixed by electronic mail to any certificate of any such power and any such power or certificate bearing such electronic signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certificate so executed and sealed shall, with respect to any bond of undertaking to which it is attached, continue to be valid and binding on the Company.

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GREAT MIDWEST INSURANCE COMPANY — CORPORATE SEAL — TEXAS CORPORATION

GREAT MIDWEST INSURANCE COMPANY

BY Mark W. Haushill

Mark W. Haushill
President

ACKNOWLEDGEMENT

On this 8th day of April 2025, before me, personally came Mark W. Haushill to me known, who being duly sworn, did depose and say that he is the President of **GREAT MIDWEST INSURANCE COMPANY**, the corporation described in and which executed the above instrument; that he executed said instrument on behalf of the corporation by authority of his office under the By-laws of said corporation.

CHRISTINA BISHOP
My Notary ID # 131090488
Expires April 14, 2029

BY Christina Bishop

Christina Bishop
Notary Public

CERTIFICATE

I, the undersigned, Secretary of **GREAT MIDWEST INSURANCE COMPANY**, A Texas Insurance Company, DO HEREBY CERTIFY that the original Power of Attorney of which the foregoing is a true and correct copy, is in full force and effect and has not been revoked and the resolutions as set forth are now in force.

Signed and Sealed at Houston, TX this 26th Day of August 2026.

GREAT MIDWEST INSURANCE COMPANY — CORPORATE SEAL — TEXAS CORPORATION

BY Patricia Ryan

Patricia Ryan
Secretary

"WARNING: Any person who knowingly and with intent to defraud any insurance company or other person, files and application for insurance of claim containing any materially false information, or conceals for the purpose of misleading, information concerning any fact material thereto, commits a fraudulent insurance act, which is a crime and subjects such person to criminal and civil penalties.

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"Triple Construction" ×

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Triple Construction ID Assigned

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TRIPLE CONSTRUCTION, LLC

Subaward ID: **2101**

Assistance Subaward

Subrecipient

TRIPLE CONSTRUCTION, LLC
Unique Entity ID: **NB7BMQFXWEL1**

Prime Recipient

CITY OF PORTSMOUTH NH
Unique Entity ID: **XTL2C874AZN7**

Prime Assistance

Award ID (FAIN): **B-24-MC-33-0003**

Total Award Value: **$527,797.00**

Assistance Type: **03 - Formula Grant (A)**

Assistance Listing ID(s): **14.218**

Awarding Subtier: **8620 - Assistant Secretary for Community Planning and Development**

Awarding Office: **861291 - CPD : CPD FIELD OFFICES REGION 1**

Date

Subaward Date: **Oct 15, 2025**

Date Submitted: **Oct 27, 2025**

TRIPLE CONSTRUCTION, LLC ID Assigned

Entity

Unique Entity ID
NB7BMQFXWEL1

Physical Address
5 EXECUTIVE DR, HUDSON, NH 03051 USA

Assigned Date
Oct 31, 2023

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