



Torrington Public Schools

DEAN PERGOLA
DIRECTOR OF FACILITIES

MICHAEL J. WILSON
SUPERINTENDENT

TORRINGTON PUBLIC SCHOOLS

Project Manual

Locked Foyer at Torrington Elementary School

355 MIGEON AVENUE
TORRINGTON, CONNECTICUT 06790
www.torrington.org • (860) 489-2327 • fax (860) 489-0726

*The Torrington Board of Education does not discriminate in any of its programs,
activities or employment practices on the basis of any protected class status.*

TORRINGTON BOARD OF EDUCATION
CONSTRUCTION OF A LOCKED FOYER AT
TORRINGFORD ELEMENTARY SCHOOL

ADVERTISEMENT FOR BID

Torrington Board of Education is seeking a Request for Bid for Contractors to construct a locked foyer at Torrington Elementary School. The bid packet will be available at a mandatory Prebid meeting on March 12th, 2024, 4:00 P.M. at Torrington Elementary School, 800 Charles Street, Torrington, CT 06790. Only bidders attending the Prebid meeting may submit a bid. All instructions for bidding will be disclosed at Prebid meeting. Prevailing wage rates shall apply to the project.

Bids will be due to Torrington Public Schools, 355 Migeon Ave, Torrington, CT. 06790, sealed, and marked TES Foyer Bid: Scott Petruzzelli, Director of Finance, on April 2, 2024, by 11:00 A.M. at which time they will be opened and read aloud.

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TORRINGTON BOARD OF EDUCATION **CONSTRUCTION OF A LOCKED FOYER AT** **TORRINGFORD ELEMENTARY SCHOOL**

INVITATION TO BID

Torrington Board of Education is seeking a Request for Bid for Contractors to construct a locked foyer at Toringford Elementary School. The bid packet will be available at a mandatory Prebid meeting on March 12th, 2024, 4:00 P.M. at Toringford Elementary School, 800 Charles Street, Torrington, CT 06790. Only bidders attending the Prebid meeting may submit a bid. All instructions for bidding will be disclosed at Prebid meeting. Prevailing wage rates shall apply to the project.

Bids will be due to Torrington Public Schools, 355 Migeon Ave, Torrington, CT 06790, sealed, and marked **TES Foyer Bid: Scott Petruzzelli, Director of Finance**, on April 2nd, 2024, by 11:00 A.M. at which time they will be opened and read aloud.

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Torrington Public Schools

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TORRINGTON BOARD OF EDUCATION

CONSTRUCTION OF LOCKED FOYERS

TORRINGFORD ELEMENTARY SCHOOL

REQUEST TO BID

I. RIGHT OF BID AWARD, REJECTION, OR AWARD TO OTHER THAN LOW BIDDER

The Board reserves the full, unquestioned right to award this Bid, or any part thereof, to the bidder or bidders who, in the best judgment of the Board best meets the interests of the Board. It further reserves the right to waive all Bid conditions, to reject any and all Bids received, and to award this Bid or any part thereof, to other than the low Bidder, should it appear to serve the best interests of the Board.

Furthermore, the Board reserves the right to enact the City of Torrington's Charter, chapter 6, article 1.6-1, 1.6-2, and 1.6-3 which states as Follows:

Chapter 6 - BIDS AND CONTRACTS

ARTICLE I. - CITY-BASED BIDDER PREFERENCE

§ 6-1. - Definitions.

For the purposes of this article, the following words shall have the following meanings:

BID: Bids based upon expenditures of \$10,000.00 or more as well as quotes for expenditures of less than \$10,000.00.

CITY-BASED BIDDER: A business with a legal principal place of business located within the City of Torrington. A business shall not be considered a city-based business unless evidence satisfactory to the purchasing agent has been submitted with the bid to establish that said business has a bona fide principal place of business within the City of Torrington. Such evidence may include evidence of ownership of or a long-term lease of real estate within the city from which the principal place of business is legally operated.

§ 6-2. - Offer of option to match lowest bid.

The purchasing agent shall be authorized to offer to City-based bidders that exceed the lowest bid by up to six percent the opportunity to match the lowest bid. A City-based bidder within the six-percent differential who agrees to accept the amount of the lowest bid will be awarded the bid unless more than one City-based bidder submits a bid not more than six percent higher than the low bid. When multiple City-based bidders agree to accept the award of the bid at the amount of the low bid, then the city-based bidders will be invited to submit a new bid, not to exceed the low bid. The bid will be awarded to the lowest responsive, responsible bidder.

§ 6-3. - Contents of bid documents.

Bid documents that apply the city-based bidder preference must state that the six percent City-based bidder preferential will be applied.

The Board reserves the right to investigate the financial status and credit rating of any prospective Bidder and to disqualify any Bidder from participation in this Bid based on the results of this investigation.

II. MANNER OF BID SUBMISSIONS, PRODUCT REQUIREMENTS

Bid submissions shall be given separately for each item set forth on the bid listing. Samples must be provided for all items, when requested, at no cost to the Board. Samples shall be plainly marked with the identification number given on the bid listing and bear the name of the bidder. Samples and products shall be in strict accordance with the bid specifications.

All bid submissions must be given on the "Official Bid Form".

III. DELIVERY REQUIREMENTS

Bid bond or certified check required with bid: 5% of the price to the Torrington Board of Education.

IV. BILLING AND PAYMENT

See Specifications

V. TAX-EXEMPT STATUS

The Torrington Board of Education is exempt from the payment of Federal, State, or Local taxes, and enjoys such status under Section 12-412 of the General Statutes of the State of Connecticut. Proposal submissions shall not include any tax applications, nor should any subsequent billings for items furnished include any tax application.

VI. FAMILIARITY WITH SPECIFICATIONS, LAWS, AND SPECIAL CONDITIONS

Each bidder shall be required to become familiar with and must comply with the terms and conditions of these bid specifications. In addition, the bidder must be familiar with all Federal, State, and Local laws,

ordinances, or regulations that may, in any manner, relate to his performance if he receives a bid award. Submission of a bid shall be construed to mean that such examination has been made. No claims or billings for compensation over and above the contract sum shall be honored, if due to an oversight on the part of the bidder. The Board of Education is An Affirmative Action/Equal Opportunity Employer. Successful bidder must be an equal opportunity/affirmative action employer.

ALL OF THE CONDITIONS AND REQUIREMENTS OF THIS BID SHALL BE BINDING ON ALL BIDDERS. NO CHANGE OR DEVIATION FROM ANY OF THE CONDITIONS AND REQUIREMENTS AS SET FORTH HEREIN MAY BE MADE UNLESS PERMISSION TO DO SO IS GIVEN, SPECIFICALLY IN WRITING.

Sealed bids will be received by the Director of Facilities, Torrington Public Schools, 355 Migeon Avenue, Torrington, CT until the time and date specified on the cover sheet and opened thereafter in the Conference Room. Bids received later than the time specified will not be accepted. Amendments to or withdrawal of any section of the submitted bid received later than the time & date set for the bid opening will not be considered. Bid proposals must remain in effect for a minimum of 60 days unless otherwise noted elsewhere in the bid specifications. Faxed bids will not be accepted.

REPLIES: must have the bid name clearly identified on the outside of the envelope. Bidders not marking the envelopes with the Bid name and date/time of opening on the envelope will have no recourse against the Board of Education or its employees. Such bidders run the risk of the bid being opened prior to the scheduled Bid Opening time. Once opened such bids are public record.

Any alleged oral agreement made by a bidder or contractor with any agency or employee of the City of Torrington will be disregarded.

FREIGHT: Prices quoted shall be net delivery F.O.B. Torrington, CT. All bid prices must include prepaid delivery, assembly, and/or installation (ready for operation and/or use) of all equipment and/ or materials to the individual locations(s) as designated by the Purchasing Agent. All bid prices are to be submitted on the sheets provided on this bid. Quantities and pricing are to be listed in accordance with these sheets.

QUESTIONS: Request for interpretation of any portion of the bid may be directed by email to John Barlow, Director of Facilities at dpergola@torrington.org. All replies will be via email and a copy of any such inquiry and advice (if deemed vital to the bid) will be made available to each prospective bidder via email. Bidders should check the web site, www.torrington.org, for addendums/updates 48 hours prior to the bid opening. Addenda will be issued no later than 2 days prior to the date for receipt of bid.

In the event of receipt of identical bids as to offerings, delivery, service, content, price, etc., the bid will be awarded in accordance with the information contained in the bid document, based on first received as to date and time of receipt of the bid.

NON-COLLUSION STATEMENTS: In order for bids to be considered, a non-collusive statement must be submitted with the bid. A sample non-collusive bid statement is attached. Bidders may elect to submit their own notarized non-collusion statement.

CONDITIONAL, QUALIFIED OR NON-RESPONSIVE BIDS/PROPOSALS: All bids/proposals shall be submitted in the form and manner as indicated by the bid documents and bid forms. Any proposal which is not submitted in the form and manner indicated by the bid documents or which contains

information, statements, conditions, or qualifications which place conditions or qualifications on the proposal submittal for purposes of making an award, or which alter any proposal terms, conditions, specifications, or forms, which has not been previously approved by written addendum from the Purchasing Agent, or which does not meet legal requirements, shall be declared as a qualified, conditional, or non-responsive proposal and shall be rejected without further consideration. Any proposal response that does not fully respond to and comply with all detailed specifications or requests for information including execution of proposal forms, may be declared "non-responsive" and recommended for rejection. The Board of Education shall not be responsible for any errors or omissions of the bidder.

UNBALANCED BIDS AND/OR EXCESSIVE LINE-ITEM PRICES: The Board reserves the right to reject any bids in which unit prices, in the sole opinion of the Board, are unbalanced. In addition, where the Board has decided to make an award, it further reserves the right to nonutilized a particular line item that in the sole opinion of the Board is excessively priced and reserves the right to obtain that item from another source.

CONTRACT: A response to a Request for Bid is an offer to contract with the Board of Education based upon the terms, conditions, and specifications contained in the Board's RFP. Bids do not become contracts unless and until they are executed by the Board, eliminating a formal signing of a separate contract. For that reason, all the terms and conditions of the contract are contained in the RFB, unless any of the terms and conditions are modified by an RFB Amendment, a Contract Amendment, or by mutually agreed terms and conditions in the contract documents.

TAXES: Omit all State and Federal taxes from the bid. The Board of Education is exempt from the payment of taxes imposed by Federal government and/or the State of Connecticut.

OWNERSHIP OF DOCUMENTS: All documents, including drawings, plans, specifications, videotapes, or other documents or maps prepared by a contractor pursuant to any agreement arising from this bid shall become the property of the Board of Education upon completion of the project or any termination of the project prior to the completion of the project.

LEGALITY: All bid offers for commodities, work, materials, or equipment hereunder shall comply in every respect with the laws, specifications and requirements of the State of Connecticut and the Federal government. Contractor will comply with the provisions of the Connecticut Fair Employment Practices Law.

LANGUAGE DISPUTES: Any disputes over the interpretation and/or meaning of any individual terms, conditions, and/or language within this Request for Bid/Proposal document shall be resolved by and at the sole discretion of the Director of Facilities in a manner that is in the best interest of, and best advantage to, the Board of Education, provided any such interpretation shall be reasonable. In the event that an individual term, condition, and/or language/wording is determined at any time, including after award, by the Business Services Administrator to be "not applicable at all" to this contract, then the term, condition, and or language/wording may be disregarded, even though an addendum is not issued. However, if the Business Services Administrator determines that the term, condition, and/or language/wording "is applicable in part", then the term, condition, and/or language/wording will apply to the degree applicable, even though an addendum is not issued.

RESPONSIBILITY: The Contractor shall save the Board of Education, its agents, or employees, harmless from liability of any kind for all claims of labor payments and materials furnished for this work, and for use of any copyrighted or uncopyrighted composition, secret process patented, or unpatented invention, article or application furnished or used in the performance of the contract of which the Contractor is not the patentee, assignee, or licensee. The successful bidder agrees to indemnify and hold harmless the City of Torrington, its agents, and employees from any and all liability arising out of the successful bidders' operations, functions and/or supplied items.

The successful bidder, vendor, and/or contractor must protect all property of the Board of Education (i.e. all floors, furniture, grass, land, etc.) from injury or other damage. Any damage so caused must be repaired by contractor/vendor at his/her own expense. At the completion of work, the vendor and/or contractor must remove from the premises all surplus materials and all debris created by same. The premises must be left in a broom-clean and finished condition acceptable to the owner or its agents. Successful bidder will furnish adequate protection from damage for all work and to repair damage of any kind; for which he or his workers are responsible, to the premises or equipment to his own work or to the work of other contractors.

It is the responsibility of the contractor to for the work described to become thoroughly familiar with the equipment and proper maintenance requirements and specifications of the equipment. The submission of a proposal shall be construed as evidence that the contractor has examined the actual job conditions, requirements, and specifications. Any claim for labor, equipment, or materials required, or difficulties encountered, which could have been foreseen had such an examination been carefully made will not be recognized.

DEFAULT: It shall be understood that a bidder supplying equipment and/or supplies will be considered to be in default if/when they have not delivered the item(s) within the time constraints listed in this document or subsequent purchase orders and/or contract. Bidders providing a service and/or construction will be considered to be in default if/when they have failed to meet the completion date set forth in this document or its subsequent contract and/ or purchase orders and/ or they have ceased work on the project for a period of fifteen (15) working days, cumulative or consecutive.

TRADE NAME REFERENCES: Any and all references to trade names, types, styles, model numbers, stock numbers or catalogs are intended to be descriptive only and not restrictive. The intention is to indicate to bidders the type and quality of the articles and or materials that will be satisfactory. When reviewing the information, it is the responsibility of the prospective bidder to inform the Board of Education of any discrepancy that is found (i.e. number listed does not fit item description) Bids received on other makes or models with reference to other catalogs will be considered. The bidder is to clearly state in his bid exactly what he intends to furnish and to furnish with his bid a cut or illustration or other descriptive matter that will clearly indicate and give specification as to the product he/she proposes to furnish. Where a bid is offered on an item other than the trade standard used in the specification the item should be identified on the bid form by entering the MAKE, TRADE NAME AND MODEL NUMBER. It is understood that any substitutes and/or alternates that might be offered are guaranteed by the bidder to be of equal or better quality than is reference in the bid. The item(s) must be equivalent as to function, basic design, type and quality of material, method of construction and any required dimensions. It shall be further understood that during original as well as subsequent shipments spot checks will be performed to ensure that the items received are in fact the items offered in the bid. When

received, should items/materials prove to be different from what was bid in any way, the bidder agrees to the return of the items and agrees to supply correct items (per bid specifications) at the bidder's expense. In the event this return action is required, it is understood the bidder may be subject to removal from the city's approved bidder's list. Bidders are cautioned that surplus, seconds, factory rejects, floor samples, close outs or distressed items are not acceptable and shipments of substitutions, defective or shop-worn equipment will be returned for a full refund at the vendor's expense.

QUANTITY: The quantities and/or materials listed in the specifications/bid sheets may be increased or decreased by the Board of Education or its designated representative based on actual need at the time the purchase orders are placed.

QUALITY: The Board of Education reserves the right to reject any proposal in whole or in part offering equipment and/or materials and/or services that in its or its agent's opinion does not meet the quality standards desired. Such decision is final and not subject to further recourse by the bidder.

SAMPLES: forwarded by the bidder will be returned to the bidder at his request and expense. Requests for return of samples must be submitted in writing at the time the sample is given to the Board of Education or its representative. Samples not returned to the bidder will be disposed of at the discretion of the Board of Education or its designated representative. Large pieces of equipment submitted for evaluation and inspection are to be picked up by the bidder within 30 days of the bid opening date. Items not picked up within 30 days will be disposed of by the Board of Education or its designated agent.

AWARD: It is the intent to award this bid in its entirety to one bidder, however, the Board reserves the right to award the bid line item by line item if it is deemed in its best interest to do so. In addition, bidders are advised that should budgetary constraints dictate, part, and/or all the items in this bid may be rejected. This decision shall be considered final and not subject to recourse by the bidder.

The successful bidder must furnish a 100% Performance Bond and a 100% Labor and Materials Bond.

In determining the lowest or highest responsible bidder, the Board reserves the right to consider, in addition to price, the compatibility, quality, cost of maintenance and availability of parts, experience and/or past performance of the bidder, sufficiency of the financial resources of the bidder as relates to the offerings as well as the ability of the bidder to provide future maintenance and service.

Documents previously submitted to the Board of Education will not be considered as satisfying submission requirements for this bid. No bidder can claim any contract rights by virtue of bidding alone. Awarding of the contract means actual written notice by letter and a properly executed purchase order to the bidder or bidders to whom the bid has been awarded.

INSURANCE:

Certificate of Insurance: All insurers must have an AM Best rating of A-VI I or better and admitted doing business in the State of Connecticut. All insurance policies must include a Waiver of Subrogation whereby the insured waives its right to subrogate against the City, its subsidiaries, employees, volunteers, directors, and officers. Proof of proper insurance coverage, Workers Compensation Insurance, Liability and Property damage, and Vehicle Insurance shall be filed with the Board of Education, Business Services Administrator within 10 days after the award of the bid. The Certificate of insurance must name the Torrington Board of Education, 355 Migeon Avenue, Torrington, CT, and the

City of Torrington, its subsidiaries, employees, volunteers, directors & officers as the additional insured and filed with the Director of Business Services prior to commencement of work. Renewal Certificates of Insurance must be mailed to the Director of Business Services 10 days prior to the expiration of the required coverage.

Workman's Compensation Insurance: The Contractor shall take out and maintain during the life of the contract adequate Workman's compensation Insurance for all the employees employed on said work. In case any class of employees or subcontractors is engaged in hazardous work under the contract at the site of the work is not protected under the Workman's Compensation statute, the contractor shall provide Workman's Compensation Insurance for the protection of employees not otherwise protected.

Liability Insurance: The Contractor shall take out and maintain for the life of the contract, adequate public liability insurance insuring against liability to persons not employed by him in an amount of not less than \$1,000,000 for injuries, wrongful death to any one person and subject to the limit for each person in an amount of not less than \$2,000,000 on account of one accident and property damage insurance in an amount of not less than \$1,000,000.

Vehicle Insurance: The Contractor shall take out and maintain for the life of the contract, adequate automotive/truck, or other vehicle insurance with minimum coverages of \$1,000,000 each for both liability and under insured and uninsured motorist as well as any other coverages required by the State of Connecticut or requested by an official of the Board of Education as relates to the contract.

Additional Security: The Board of Education reserves the right to require successful bidders to enter into and such security arrangements as are deemed necessary to protect the Board of Education, its property and goods.

PERMITS: The successful bidder agrees to obtain all work/building permits as might be required. The cost of obtaining such permits is the responsibility of the bidder. The City of Torrington reserves the right to waive local permit fees. In addition, it shall be understood that where property lines are to be considered, bidders are to verify said lines and measurements with proper City Officials prior to commencement of work.

It is to be understood that any/all specifications and/or plans or drawings contained in or developed as a result of the bid process are and shall be presented subject to the approval of the City of Torrington planning, zoning, and building officials and that awards made prior to said approval are subject to cancellation.

PREVAILING WAGE: When the State of Connecticut Prevailing Wage Rate is applicable to the bid, the successful bidder must submit a Certified Payroll Record prior to any request and/or invoice for payment.

SAFETY:

Machine and/or Equipment Hazard Assessment and Safety Training: Upon delivery of machines and/or equipment, suppliers are required to provide to the end-user employees, at no additional charge, a training session that will emphasize hazard awareness and assessment and the safe use of such machinery/equipment.

Occupational Safety and Health Act of 1971 as amended: Seller shall warrant that the machinery, equipment, or other materials covered hereby shall upon delivery to the Board of Education, be in compliance with the standards required by said Act and any updates as pertain to or reference said Act as well as the standards required by comparable State and local laws, if any, for such machinery, equipment or other materials in effect at the time of delivery.

Machines and/or Equipment Lockout/Tagout: In an effort to comply with OSHA's final rule on the control of hazardous energy sources, vendors must warrant that any and all machines and/or equipment as is covered under this bid will be supplied and/or installed equipped with lockout/tagout devices as prescribed by OSHA.

Toxic Substance Control Act (PL94-469): Seller warrants that each and every chemical substance constituting or contained in the products sold or otherwise transferred to the Board of Education under this bid and subsequent purchase orders is not on the list of prohibited chemical substances compiled and published by the Administrator of the Environmental Protection Agency pursuant to Act PL94-469 and are otherwise in compliance with said Act.

Hazardous Materials: Any materials required by this bid and subsequent purchase orders that are hazardous under federal, state, or local statute, ordinance, regulation, or agency order will be packaged, labeled, marked and shipped by the seller to comply with all federal, state and local regulations then in effect including but limited to the provisions of the Hazardous Materials Transportation Act and Regulations promulgated thereunder and will further comply with any special requirements and any policies and procedures of the Board of Education relating to the purchase of hazardous materials as might be noted on subsequent purchase orders or otherwise communicated to seller in writing.

Material Safety Data Sheets: Shall be provided by the Seller upon delivery to the Board of Education of any goods having constituents listed in the following references - OSHA 1910, ACHIG Current Threshold Values, DOT HazMat Table 49, IARC Carcinogen List, National Toxicology Program Carcinogen List, and/or Radioactive Materials. These Material Safety Data Sheets must be consistent with and include information required by the OSHA Hazard Communication Standard published as 29 CFR 1910.1200, as the same may be amended or supplemented from time to time.

Asbestos: Bidders are advised that asbestos-containing material may be located in the boiler rooms, pipe tunnels, storage areas and various portions of Board buildings. Before proceeding on any contractual work on Board buildings or their interiors, it is mandatory that bidders familiarize themselves with the asbestos-containing material and that said material be considered as a health hazard and all precautionary measures according to the Ahern Rules & Regulations be observed. It is the bidder's responsibility to notify all employees and/or subcontractors of this notification.

SUBCONTRACTORS: The successful bidder shall not employ any subcontractor to fulfill any of the duties herein specified without express, prior written approval of the Board of Education or its designated agent.

EEO: The successful bidder shall provide any/all additionally required, affirmative action statements, fair employment plans and non-discrimination programs and statement as might be required by the Board of Education. In connection with the execution of this bid, subsequent purchase orders and/or contracts, the seller shall not discriminate against any employee or applicant for employment because of age, race,

religion, color, sex, or national origin. Bidders must comply with all rules & regulations of the Department of Labor with regard to Equal Employment Opportunities as pertains to municipalities.

TERMINATION OF CONTRACT: Any contract entered by the Board and the successful bidder shall provide that the Board may terminate the contract upon thirty (30) days' notice to the bidder.

The Torrington Board of Education reserves the right to award or reject any or all bids, or any portion thereof, to waive technicalities, and to award the bid and/or contracts to one or more bidders submitting essentially identical proposals and, that in the city's judgment, will best serve the public interest.

The terms and conditions of this Request to Bid are made a part of the bid.

SUPPLEMENTARY GENERAL CONDITIONS

AIA Document A201-2017, "General Conditions of the Contract for Construction"

AIA Document A201-2017, "General Conditions of the Contract for Construction", 2017 Edition, Articles 1 through 15 are bound her-in and are hereby made a part of the Contract Documents and shall apply to all Contractors and Subcontractors.

Agreement Between Owner and Contractor shall be AIA A105

Certain Articles of the AIA General Conditions of the Contract for Construction are revised or replaced by requirements of the Supplementary Instruction to Bidders, listed below. Such revisions are replacements shall take precedence over the AIA Document A201, "General Conditions of the Contract for Construction".

The following articles, revised paragraphs and clauses have the same numerical designations occurring in the AIA General Conditions of the Contract for Construction, and all additions follow in direct numbered sequence.

Article 1 GENERAL PROVISIONS

1.00 RELATED DOCUMENTS

- A. Invitation to Bidders, the Supplementary General Conditions and Division 1, General Requirements, are a part of this Section and shall be binding on the Contractor and /or Subcontractor who performs this work. Note also all Addenda.

1.2.1 CORRELATION OF INTENT OF THE CONTRACT

Should the Contract Documents disagree in themselves, or with each other, the Contractor shall not proceed with such work until the Architect has been contacted for clarification and proper direction. The Contractor shall assume that he may be required to furnish the greatest quantity or highest quality indicated or described. "As required" shall mean as required to produce a fully completed project or result to the satisfaction of the Architect. "Provide" means furnish and install completely. "Match Existing" shall mean to reproduce existing design, materials, details and finishes in designated area to standards for new construction. Reference made to "owner", "city", or "City" shall mean the City of Torrington/Board of Education/Torrington Public schools.

1.2.4 REQUESTS FOR INFORMATION-See BOEd Document

Contractor shall submit any requests for information (RFIs) in time to allow Architect to have seven working days to respond.

Note: Technical questions should be submitted in writing to: Joseph S. Alicata, AIA Architect, JSA@alicatanet.com; administrative questions are to be submitted to Director of Business Services,

Article 3 CONTRACTOR

3.2.2 Review of Contract Documents and Field Conditions by the Contractor: Add:

Further, the Contractor represents that he has received the Contract Documents and reported to the Architect, in writing, of any errors, omissions, ambiguities, or inconsistencies that prevent the constructability of the work that would reasonably have been discovered during the bidding process.

3.2.4 After reporting to the Architect any error, inconsistency, or omission it may discover in the Contract Documents, the Contractor shall not proceed with any work so affected without the Architect's written modification to the Drawings and/or Specifications.

3.2.5 In the event of conflict between portions of the Contract Documents, Contractor shall ask for and obtain a written decision from the Architect as to which method or material will be required.

3.4.3 After the Contract has been executed, the Owner and the Architect will consider a formal request for the substitution of products in place of those specified only under the conditions set forth in the General Requirements (Division 1 of the Specifications).

3.4.4 By making requests for substitutions based on Subparagraph 2.03 above,
The Contractor:

.1 represents that the Contractor has personally investigated the proposed substitute product and determined that it is equal or superior in all respects to that specified;

.2 represents that the Contractor will provide the same warranty for the substitution that the Contractor would for that specified;

.3 certifies that the cost data presented is complete and includes all related costs under this Contract except the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently become apparent; and

.4 will coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects.

3.4.5 The Contractor is encouraged to use local labor where feasible, but not when it is at the expense of poor workmanship and/or higher cost.

3.5 Warranty: Add: 3.5.2 Contractor's Title to Material:

The Contractor warrants that he has good title to all materials or supplies purchased for the work and used by him in the work, free from all liens, claims, or encumbrances.

Taxes:

3.6.2 Under the terms of Regulation 16, referring to Contractors and Subcontractors, issued by the State Tax Commission in administration of the State Sales and Use Tax, to which bidder is referred, the Contractor may purchase materials or supplies to be consumed in the performance of this contract without payment of tax and shall not include in his bid nor change any use of sales tax thereon.

Permits, Fees and Notices:

3.7.5 The Contractor shall be responsible for complying with the requirements of the Contract Documents when such regulations and requirements exceed those of any laws, ordinances, rules, regulations, and orders of any public authority bearing on the work.

3.7.6 Even though the City of Torrington building permit fee will be waived, the Contractor must apply for a building permit and pay for State of CT permitting fee (\$0.26/1000).

3.15.3 No burning of rubbish at the job site will be permitted. Provision for removal of rubbish will be made by the contractor at no additional cost to the City.

Article 4 ADMINISTRATION OF THE CONTRACT

4.3.11 The Contractor shall promptly report to the architect any defects or suspected defects in the Architect's work or services of which the Contractor or Subcontractors become aware so that immediate measures can be taken by the Architect. Failure by the contractors to notify the Architect shall relieve the Architect of the costs to remedy the defects above the sum, such remedy would have cost had prompt notification been given.

4.4 Resolution of Claims and Disputes: Delete all references to Mediation and Arbitration. All disputes shall be referred initially to the Architect and then to Litigation.

- A. Noncompliance with the terms of this specification and ensuing contract can result in either the cancellation of the contract, or complete replacement of the defective areas at the Contractor's expense. In the event of cancellation, the Owner will not be obligated to compensate the Contractor for any work undertaken in a defective manner.
- B. Damages caused by water infiltration resulting from the failure of the Contractor to secure each day's work in a weather tight manner, will be corrected at the Contractor's expense. Included as damages, will be all labor costs incurred by the Owner as a result of such water infiltration.
- C. The Owner will require the Owner's Representative to examine the work in progress, as well as upon completion, to ascertain the extent to which the materials and procedures conform to the requirements of these specifications.

Article 7 CHANGES IN THE WORK

7.2.2 If the cost or credit to the City resulting from a change in the work is determined, the value of such cost or credit shall be determined as follows:

1. The cost of labor performed and material used by the Contractor with his own forces.
2. The cost of Workman's Compensation, Federal Social Security, and Connecticut Unemployment Compensation in established rates, actual additional cost of payment and performance bond.
3. Actual cost of rental rates for equipment employed and used directly on the work. the cost of the Contractor's own equipment shall be based upon rates set forth in the Associated Equipment Dealer's green book.
4. Ten percent (10%) of .1, .2 and .3 above mentioned for overhead, superintendence and profit; however, if the work to be performed results in a credit to the City, no percentage of overhead and profit will apply.
5. On work to be performed by a Subcontractor, the Contractor's allowance is to be five percent (5%) applied to a total cost of Subcontractor's work, including his allowance as per Paragraph 7.
6. On any changes involving the Contractor, Subcontractor or any contractor of theirs, their total cost and/or omissions shall be combined as one before the application of the percentage allowed for the Contractor's overhead and profit in accordance with Paragraph .5 above.
7. On work to be performed by a Subcontractor, the Subcontractor's allowance is to be ten percent (10%) for his overhead and profit applied to Paragraph .1, .2, and .3 above.
8. The Contractor, when performing work under .3 shall, when requested, promptly furnish in a form satisfactory to the City, itemized statements of the cost of the work so ordered, including but not limited to, certified payrolls and copies of accounts, bills and vouchers to substantiate the above estimates.

Article 8 DELAYS AND EXTENSIONS OF TIME

Add 8.3.4 Liquidated Damages: Failure to complete the project by the Completion Date will result in liquidated damages charges to the Contractor in the amount of five hundred dollars (\$500.00) per day. Contractor may be permitted to work during school hours, except for removal of hazardous materials, on a predetermined schedule approved by Dean Pergola, Director of Facilities.

If material deliveries are delayed beyond the Contractor's control, then the liquidated damages will be waived.

It is the intention to have as much work done as possible during the summer of 2024 (coordinate exiting requirements with summer school schedule). The school may be available during the school year; however, that schedule will need to be approved by the Director of Facilities.

Article 9 PAYMENTS AND COMPLETIONS

9.3.1 Prior to submitting the Application for Payment, the General Contractor shall review with the Architect a preliminary draft of the application. In accordance with this Section the Architect shall review the formal Application for Payment (3 copies) for the value of work completed including the value of materials delivered and properly stored at the site. The City shall retain five percent (5%) of the estimated value, and is to be held by the City as security for the fulfillment of the contract by the Contractor. The balance not retained shall be paid monthly after deducting all previous payments and all sums to be withheld under the provisions of this contract. Ninety (90) days after substantial completion of the work, a final payment will be issued provided the work is in compliance with the contract and fully completed as determined by the Architect.

9.6.7 The City will pay no interest for any monies retained under this contract.

9.03 Progress Payment will be made for only work, which is in place. No payment will be made for stored material unless other arrangements are approved by the Owner and made prior to the billing cycle.

ARTICLE 10 PROTECTION OF PERSONS AND PROPERTY

10.2.8 The Contractor shall be responsible for the adequate strength of all staging, scaffolding, and hoisting equipment including temporary shoring, bracing, and tying.

ARTICLE 11: INSURANCE AND BONDS

1. Add the following Paragraph 11.1.5: The Contractor shall maintain insurance requirements and minimum coverages as set forth in the **Supplemental Instructions to Bidders. Torrington Request for Bid**. Contractor insurance shall be primary and non-contributory. These minimum insurance requirements are not to be construed as a limitation of liability

2. Sections 11.3.1, 11.3.2 and 11.4, page 33, shall be removed.

3. The City of Torrington, also be added as additional insured on all applicable policies.

4. **Reference bonds:**

1. Municipalities must require bid bonds for subcontracts exceeding \$50,000.

(CGS 49-41).

2. Performance, Labor and Material Payment Bonds

Municipal Projects where the general contract exceeds \$25,000 or a subcontract exceeds \$50,000 must require bonds (CGS 49-41).

13.0 MISCELLANEOUS PROVISIONS

- A. Electrical power will be furnished by the Owner for small tools only.
All connections to the electrical system will be furnished by the Contractor.
- B. Water for contractor's use, washing and drinking purposes will be furnished by the Owner. Any connections to the water system shall be completed by the Contractor.
- C. At the completion of the work, or when the above connections are no longer required, the Contractor shall remove all connections and leave the facilities in a condition at least as satisfactory as prior to the commencement of their work.
- D. Toilet facilities shall be provided by the Owner during summer months.
- E. Contractor shall clean work area on a daily basis, to the approval of the Director of Facilities. Empty dumpster at the end of each work week.

ID#: 24-58321 Connecticut Department of Labor
Wage and Workplace Standards

By virtue of the authority vested in the Labor Commissioner under provisions of Section 31-53 of the General Statutes of Connecticut, as amended, the following are declared to be the prevailing rates and welfare payments and will apply only where the contract is advertised for bid within 20 days of the date on which the rates are established. Any contractor or subcontractor not obligated by agreement to pay to the welfare and pension fund shall pay this amount to each employee as part of his/her hourly wages.

Project Number: _____ Project Town: Torrington
State#: _____ FAP#: _____
Project: Tarringford Elementary School: Entry Vestibule/Foyer Modifications

CLASSIFICATION	Hourly Rate	Benefits
1b) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters. **See Laborers Group 7**		
1c) Asbestos Worker/Heat and Frost Insulator	45.56	32.65
2) Boilermaker	46.21	29.35
3a) Bricklayer, Cement Mason, Concrete Finisher (including caulking), Stone Masons	41.11	34.65 + a
3b) Tile Setter	37.1	30.52
3c) Tile and Stone Finishers	30.0	25.30
3d) Marble & Terrazzo Finishers	31.07	24.23
3e) Plasterer	42.77	29.63

-----LABORERS-----

4) Group 1: General laborers, carpenter tenders, concrete specialists, wrecking laborers and fire watchers.	33.5	25.59
4) Group 1a: Acetylene Burners (Hours worked with a torch)	34.5	25.59
4a) Group 2: Mortar mixers, plaster tender, power buggy operators, powdermen, fireproofers/mixer/nozzleman (Person running mixer and spraying fireproof only).	33.75	25.59
4b) Group 3: Jackhammer operators/pavement breaker, mason tender (brick), mason tender (cement/concrete), forklift operators and forklift operators (masonry).	34.0	25.59
4c) **Group 4: Pipelayers (Installation of water, storm drainage or sewage lines outside of the building line with P6, P7 license) (the pipelayer rate shall apply only to one or two employees of the total crew who primary task is to actually perform the mating of pipe sections) P6 and P7 rate is \$26.80.	34.5	25.59
4d) Group 5: Air track operator, sand blaster and hydraulic drills.	34.25	25.59
4e) Group 6: Blasters, nuclear and toxic waste removal.	36.5	25.59
4f) Group 7: Asbestos/lead removal and encapsulation (except it's removal from mechanical systems which are not to be scrapped).	36.5	25.59
4g) Group 8: Bottom men on open air caisson, cylindrical work and boring crew.	31.78	25.59
4h) Group 9: Top men on open air caisson, cylindrical work and boring crew.	31.24	25.59
4i) Group 10: Traffic Control Signalman	20.1	25.59

As of: February 13, 2024

4j) Group 11: Toxic Waste Removers A or B With PPE	36.5	25.59
5) Carpenter, Acoustical Ceiling Installation, Soft Floor/Carpet Laying, Metal Stud Installation, Form Work and Scaffold Building, Drywall Hanging, Modular-Furniture Systems Installers, Lathers, Piledrivers, Resilient Floor Layers.	37.61	27.61
5a) Millwrights	40.56	28.87
6) Electrical Worker (including low voltage wiring) (Trade License required: E1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)	43.4	32.07+3% of gross wage
7a) Elevator Mechanic (Trade License required: R-1,2,5,6)	64.01	37.885+a+b
-----LINE CONSTRUCTION-----		
Groundman	26.5	6.5% + 9.00
Linemen/Cable Splicer	48.19	6.5% + 22.00
8) Glazier (Trade License required: FG-1,2)	41.18	24.55 + a
9) Ironworker, Ornamental, Reinforcing, Structural, and Precast Concrete Erection	42.37	40.02 + a
-----OPERATORS-----		
Group 1: Crane Handling or Erecting Structural Steel or Stone; Hoisting Engineer (2 drums or over). (Trade License Required)	52.78	27.80 + a
Group 1a: Front End Loader (7 cubic yards or over); Work Boat 26 ft. and Over	48.37	27.80 + a

As of: February 13, 2024

Group 2: Cranes (100 ton rate capacity and over); Bauer Drill/Caisson. (Trade License Required)	52.41	27.80 + a
Group 2a: Cranes (under 100 ton rated capacity).	51.51	27.80 + a
Group 2b: Excavator over 2 cubic yards; Pile Driver (\$3.00 premium when operator controls hammer)	48.0	27.80 + a
Group 3: Excavator; Gradall; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar); Grader Operator; Bulldozer Finegrade. (slopes, shaping, laser or GPS, etc.). (Trade License Required)	47.1	27.80 + a
Group 4: Trenching Machines; Lighter Derrick; CMI Machine or Similar; Koehring Loader (Skooper); Goldhofer.	46.64	27.80 + a
Group 5: Specialty Railroad Equipment; Asphalt Spreader, Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24 mandrel).	45.92	27.80 + a
Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller.	45.92	27.80 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	45.55	27.80 + a
Group 7: Asphalt Roller; Concrete Saws and Cutters (ride on types); Vermeer Concrete Cutter; Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and under mandrel).	45.14	27.80 + a
Group 8: Mechanic; Grease Truck Operator; Hydroblaster; Barrier Mover; Power Stone Spreader; Welding; Work Boat Under 26 ft.; Transfer Machine; Rigger Foreman.	44.67	27.80 + a
Group 9: Front End Loader (under 3 cubic yards); Skid Steer Loader regardless of attachments; (Bobcat or Similar); Forklift, Power Chipper; Landscape Equipment (including Hydroseeder); Vacuum Excavation	44.14	27.80 + a

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Truck and Hydrovac Excavation Truck (27 HG pressure or greater).

Group 10: Vibratory hammer; ice machine; diesel and air, hammer, etc.	41.69	27.80 + a
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Group 11: Conveyor, earth roller, power pavement breaker (whiphammer), robot demolition equipment.	41.69	27.80 + a
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Group 12: Wellpoint Operator.	41.61	27.80 + a
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Group 13: Compressor Battery Operator.	40.92	27.80 + a
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Group 14: Elevator Operator; Tow Motor Operator (solid tire no rough terrain).	39.54	27.80 + a
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Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	39.06	27.80 + a
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Group 16: Maintenance Engineer.	38.28	27.80 + a
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Group 17: Portable Asphalt Plant Operator; Portable Crusher Plant Operator; Portable Concrete Plant Operator; Portable Grout Plant Operator; Portable Water Filtration Plant Operator.	43.46	27.80 + a
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Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (Minimum for any job requiring a CDL license); Rigger; Signalman.	40.54	27.80 + a
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-----PAINTERS (Including Drywall Finishing)-----

10a) Brush and Roller	37.62	24.55
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10b) Taping Only/Drywall Finishing	38.37	24.55
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As of: February 13, 2024

10c) Paperhanger and Red Label	38.12	24.55
10e) Blast and Spray	40.62	24.55
11) Plumber (excluding HVAC pipe installation) (Trade License required: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2)	48.28	35.50
12) Well Digger, Pile Testing Machine	37.26	24.05 + a
13) Roofer (composition)	41.8	22.65
14) Roofer (slate & tile)	42.3	22.65
15) Sheetmetal Worker (Trade License required for HVAC and Ductwork: SM-1,SM-2,SM-3,SM-4,SM-5,SM-6)	50.6	45.62
16) Pipefitter (Including HVAC work) (Trade License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4, G-1, G-2, G-8 & G-9)	48.28	35.50
-----TRUCK DRIVERS-----		
17a) 2 Axle, Helpers	32.16	30.51 + a
17b) 3 Axle, 2 Axle Ready Mix	32.27	30.51 + a
17c) 3 Axle Ready Mix	32.33	30.51 + a
17d) 4 Axle	32.39	30.51 + a
17e) 4 Axle Ready Mix	32.44	30.51 + a

As of: February 13, 2024

17f) Heavy Duty Trailer (40 Tons and Over)	34.66	30.51 + a
17g) Specialized Earth Moving Equipment (Other Than Conventional Type on-the-Road Trucks and Semi-Trailers, Including Euclids)	32.44	30.51 + a
17h) Heavy Duty Trailer up to 40 tons	33.39	30.51 + a
17i) Snorkle Truck	32.54	30.51 + a
18) Sprinkler Fitter (Trade License required: F-1,2,3,4)	47.55	32.27 + a
19) Theatrical Stage Journeyman	25.76	7.34

Welders: Rate for craft to which welding is incidental.
*Note: Hazardous waste removal work receives additional \$1.25 per hour for truck drivers.
**Note: Hazardous waste premium \$3.00 per hour over classified rate

- Crane with 150 ft. boom (including jib) - \$1.50 extra
- Crane with 200 ft. boom (including jib) - \$2.50 extra
- Crane with 250 ft. boom (including jib) - \$5.00 extra
- Crane with 300 ft. boom (including jib) - \$7.00 extra
- Crane with 400 ft. boom (including jib) - \$10.00 extra

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyman instructing and supervising the work of each apprentice in a specific trade.

The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.

Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.

It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.

The annual adjustments will be posted on the Department of Labor's Web page:

www.ct.gov/dol. For those without internet access, please contact the division listed below.

The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.

All subsequent annual adjustments will be posted on our Web Site for contractor access.

Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.

Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

~~Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clause (29 CFR 5.5 (a) (1) (ii)).

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.

As of: February 13, 2024

As of: February 13, 2024



Torrington Public Schools

DEAN PERGOLA
DIRECTOR OF FACILITIES

MICHAEL J. WILSON
SUPERINTENDENT

Bid Proposal for Construction of a locked Foyer at Torrington Elementary School

To: Torrington Board of Education
Attn: [Dean Pergola](#)
Director of Facilities
355 Migeon Avenue
Torrington, CT 06790

Date: _____

Pursuant to and in compliance with your "Request to Bid" relating thereto, the undersigned,

(Name of Firm) _____

Bid Price Torrington Elementary School

_____ Dollars (\$ _____)

Alternate No. One-Replacement Glazing

_____ Dollars (\$ _____)

Construction of a locked foyer bid as described in "Special Conditions Document" attached and initialed.

The undersigned certifies that this is a true and responsive statement in accordance with the instructions.

Acknowledge the receipt of the following addenda: _____

Bid Security: Type and amount: _____

References: Please attached a list of three (3) references which may be contacted in order to certify the experience of the undersigned in projects of this type and size. Include the name and address of the school or organization, and the name and phone number of the contact person.

Supplementary General Conditions: The Supplementary general conditions shall be incorporated into this proposal and into the contract to be executed by and between the undersigned and the Torrington Board of Education.

Door Hardware Allowance : (Specification Section 134715) material only. Labor to install shall be part of the Base Bid.

(Name of Bidder)_____

(Title)_____

(Business Address)_____

(City and State)_____



Torrington Public Schools

DEAN PERGOLA
DIRECTOR OF FACILITIES

MICHAEL J. WILSON
SUPERINTENDENT

TORRINGTON BOARD OF EDUCATION NON-COLLUSION AFFIDAVIT

State of _____ County of _____

I, _____ being first duly sworn, deposes and says that:

1. I am. _____ of. _____ the Bidder that has submitted the attached bid for Construction of Locked Foyer at Tarringford Elementary School.
2. I am fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid.
3. Such bid is genuine and is not a collusive or sham bid.
4. Neither the bidder nor any of its officers, partners, owners, agents, representatives, employees or parties of interest, including this affiant, has in any way colluded, conspired, connived or agreed directly or indirectly with any other bidder, firm or person to submit a collusive or sham bid in connection with the work for which the attached bid has been submitted nor has it in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other bidder, firm or person to fix the price or prices in the attached bid or of any other bidder, or to fix any overhead, profit or cost element of the bid price or the price of any bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Torrington or any person interested in the bid; and
5. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Signed. _____ Title. _____ Subscribed and sworn to

before this. _____ day of. _____ 20___. Notary Public _____

My commission expires _____

355 MIGEON AVENUE
TORRINGTON, CONNECTICUT 06790
www.torrington.org • (860) 489-2327 • fax (860) 489-0726

The Torrington Board of Education does not discriminate in any of its programs, activities or employment practices on the basis of any protected class status.

SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Work covered by the Contract Documents for Locked Entry Foyer at Torrington Elementary School.
2. Work phases.
3. Work under other contracts.
4. Use of premises.
5. Owner's occupancy requirements.
6. Specification formats and conventions.

1.2 WORK COVERED BY CONTRACT DOCUMENTS

A. Project Identification: Torrington Elementary School

1. Project Location: 800 Charles St.,

Torrington, CT 06790

2. Owner: Torrington Board of Education

355 Migeon Ave.

Torrington, CT 06790

Owner's rep.: Dean Pergola, Director of Facilities

B. Architect: Joseph S. Alicata, Architect Ilc

C. The Work consists of but is not limited to the following:

1. Selective demolition: Removal of existing materials and borrow lights, secure areas of construction.
2. Installation of secure doorways and storefront-and associated work for foyer modifications. Coordinate all Owner supplied work for complete installation.
 - a. New door frames to be set flush with brick pilasters. "Slot" protruding bricks and concrete band to accommodate this.
3. Contractor shall coordinate weekly progress meetings and coordinate work schedule with owner.

- A. Cutting and Patching to be sensitive to character of the building. It is expected that no hazardous materials will be encountered in the Work. If unidentified materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Remove under prescribed procedures. Reports on the presence of hazardous materials testing included for review and use.
- B. Water-Mist Sprinkling: Use water-mist sprinkling and other wet methods to control dust only with adequate, approved procedures and equipment according to the historic treatment program to ensure that such water does not create a hazard or adversely affect other building areas or materials.
- C. Separate Contracts: Owner may award separate contracts for performance of certain construction operations at Project site. Those operations may be conducted simultaneously and coordinated by the Owner.
 - a. Owner's electrician will be responsible for any new work associated with new door controls and security monitoring. General contractor will relocate conduit, lighting or other electrical devices in the way of new construction.
- D. Furnish a protective barrier for the immediate work area/contract limits acceptable to building department and owner.
- E. Arrange for on-site equipment storage with the Owner's representative.

Damage to the structure, interior and exterior finishes, lawn, landscaping and vegetation shall be made good to the Owner's satisfaction at no cost to the Owner. Protect existing vegetation in vicinity of new construction as needed.

1.3 WORK UNDER OTHER CONTRACTS

- A. General: Cooperate fully if Owner employs separate contractors, so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract.

1.4 USE OF PREMISES

- A. General: Contractor shall have partial use of premises for construction operations, including limited use of Project site, during construction period. Contractor's use of premises is limited by Owner's right to utilize classrooms or student activity area, to perform work, retain other contractors on portions of work, where or in areas where limited construction activity is planned to occur.
- B. Use of Site: Limit use of premises to work in areas and in areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.

1. Limits:
 - a. Limit disturbance to adjoining areas
2. Owner Occupancy: Allow for Owner occupancy of Project site
3. Driveways and Entrances: Keep driveways, loading areas, and exit ways accessible
 - a. Schedule deliveries to minimize use of driveways and entrances.
 - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- C. Use of Existing Building: Maintain existing building access in a safe condition throughout construction period. Repair damage caused by construction operations. Protect building and its occupants during construction period.

1.5 OWNER'S OCCUPANCY REQUIREMENTS

Retain first paragraph and subparagraph below if Owner will occupy all or part of premises during construction; revise to suit Project. See Evaluations.

- A. Partial Owner Occupancy: Owner may occupy the premises during entire construction period, with the exception of areas under construction. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's operations. Maintain existing exits, unless otherwise indicated.
 1. Maintain access to existing walkways, exitways, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied facilities without written permission from Owner and authorities having jurisdiction.
- B. Owner Occupancy of Completed Areas of Construction: Owner reserves the right to occupy and to utilize completed areas surrounding the building, before Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such utilization and partial occupancy shall not constitute acceptance of the total Work.
 1. Architect will prepare a Certificate of Substantial Completion.
 2. Owner will obtain a Certificate of Occupancy from authorities having jurisdiction.
 3. Before partial Owner occupancy, inspections shall be successfully completed. During occupancy, Owner will operate and maintain mechanical and electrical systems serving occupied portions of building.
 4. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of building.

1.6 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the CSI/CSC's "MasterFormat" numbering system.
 - 1. Division 01: Sections in Division 01 govern the execution of the Work of all Sections in the Specifications.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred, as the sense requires.

Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.
 - 2. imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
 - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

PART 2 - SCHEDULE

2.0 Construction Bids:

- A. It is the Owner's intent that this work progress as quickly and efficiently as possible with a minimum amount of disturbance to staff. The last day of classes is approximately June, 2024.
- B. Date for Substantial Completion is August, 2024.
- C. Note: Liquidated damages in the amount of \$500.00 per day to be imposed after the above date, refer to Supplementary General Conditions.

2.1 **Description of Work:**

- 1) Removal of all existing masonry where indicated. Cut new openings.
- 2) Remove Hollow metal storefront at Torrington Elementary School. Replace damaged work.
- 3) Cutback flooring as needed and patch.
- 4) Install new doorways, sidelights and storefront
- 5) Secure all components of ballistic materials in accordance with manufacturers' requirements to achieve a Level 1 security level.
- 6) Mechanically fasten and weld all supports to existing structure.

End of Section

SECTION 013100 - PROJECT COORDINATION

PART 1 - GENERAL

.1 RELATED DOCUMENTS

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

.2 SUMMARY

- A. This Section specifies administrative and supervisory requirements necessary for Project coordination including, but not necessarily limited to:
 - 1. Coordination, submittals, product requirements, application for payments
 - 2. Administrative and supervisory personnel.
 - 3. Project meetings
 - 4. Cleaning and protection.
 - 5. Maintenance of safe and clean access to existing facility, Incidental work
- B. Contractor's Construction Schedule

.3 COORDINATION

- A. Coordination: Coordinate construction activities included under various Sections of these Specifications to assure efficient and orderly installation of each part of the Work. Coordinate construction operations that are dependent upon each other for proper installation.
 - 1. Schedule construction and installation activities in the sequence required to obtain the best results.
 - 2. Contractor needs to give advanced notification of a date to start work to schedule gym access.
- B. Project Meetings
 - 1. Pre-construction meeting will be scheduled within 15 days after the Owner has issued notice to proceed. Attending the meeting shall be the Contractor, Architect, Owner's representative. Identify all existing conditions.
- C. Where necessary, prepare memoranda for distribution to each party involved outlining special procedures required for coordination. Include such items as required notices, reports, and attendance at meetings.
 - 1. Prepare similar memoranda for the Owner and separate Contractors where coordination of their Work is required.

- D. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of schedules.
 - 2. Progress meetings.
 - 3. Project Close-out activities.

- E. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials.
 - 1. Salvage materials and equipment involved in performance of, but not actually incorporated in, the Work. Refer to other requirements of the bids.

.4 SUBMITTALS

- A. Staff Names: Within 15 days of Notice to Proceed, submit a list of the Contractor's principal staff assignments, including the Superintendent and other personnel in attendance at the site; identify individuals, their duties and responsibilities; list their addresses and telephone numbers.
 - 1. Post copies of the list in the Project meeting room, the temporary field office, and each temporary telephone.
- B. Record drawings during construction:
 - 1. The Contractor is to maintain at the project sites (1) set of prints of the contract drawings, on which he must record changes as they occur on the job.
 - 2. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 - a.Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - b.Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - 1.Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Comparable Product Requests:
 - 1. Submit request for consideration of each comparable product. Do not submit unapproved products on Shop Drawings or other submittals.
 - 2. Identify product to be replaced and show compliance with requirements for comparable product requests. Include a detailed comparison of significant qualities of proposed substitution with those of the Work specified.
 - 3. Architect will review the proposed product and notify Contractor of its acceptance or rejection.
 - 4. Basis-of-Design Product Specification Submittal: Show compliance with requirements.

5. Where Specifications name a single product, or refer to a product indicated on Drawings, which is the level of quality therefore the "basis-of-design," provide the named product or approved equivalent. Comply with these provisions for "comparable product requests" for consideration of an unnamed product by another manufacturer.
 6. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
- D. Payment Application Forms: Use **AIA Document G702 and AIA Document G703 Continuation Sheets** as form for Applications for Payment.
- E. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action. Submit 3 copies.

Entries shall match data on the Schedule of Values and Contractor's Construction Schedule. Use updated schedules if revisions were made.
Include amounts of Change Orders and Construction Change Directives covered by application.

PART 2 - PRODUCTS (Not Applicable).

PART 3 – EXECUTION (Not Applicable).

.1 CLEANING AND PROTECTION

- A. Protect adjoining areas. Clean work areas on a daily basis.
Remove rubbish at the end of each work week from site and empty dumpsters.
Maintain the site of the work as neatly as possible, free of debris and rubbish. At the end of the work, the Contractor shall remove all construction materials, equipment and remaining debris on the job as a result of construction operations
- B. The Contractor shall maintain adequate protection of Owner's adjacent property from injury or loss arising from this contract. He/she shall provide and maintain at all times any danger signs, guards and/or obstructions necessary to protect the public and his/her workmen from any dangers inherent with or created by the work in progress. He/she shall hold the Owner harmless from any loss arising due to injury or accident to the public or his/her workmen, or from theft of materials stored at the job site.
Any areas of the adjacent building or grounds which have become damaged in any way shall be repaired or replaced by the Contractor prior to the final inspections. The method of repair used must be acceptable to both the Owner and the Owner's Representative.

END OF SECTION 013100

SECTION 017329 - CUTTING AND PATCHING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes procedural requirements for cutting and patching.
- B. See Divisions 2 through 26 Sections for specific requirements and limitations applicable to cutting and patching individual parts of the Work.
- C. See Division 07 Section "Penetration Firestopping" for patching fire-rated construction.

1.2 SUBMITTALS

- A. Cutting and Patching Proposal: Submit a proposal describing procedures at least 10 days before the time cutting and patching will be performed, requesting approval to proceed. Include the following information:
 - 1. Extent: Describe cutting and patching, show how they will be performed, and indicate why they cannot be avoided.
 - 2. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building's appearance and other significant visual elements.
 - 3. Products: List products to be used and firms or entities that will perform the Work.
 - 4. Dates: Indicate when cutting and patching will be performed.
 - 5. Utility Services and Mechanical/Electrical Systems: List services/systems that cutting and patching procedures will disturb or affect. List services/systems that will be relocated and those that will be temporarily out of service. Indicate how long services/systems will be disrupted.
 - 6. Structural Elements: Where cutting and patching involve adding reinforcement to structural elements, submit details and engineering calculations showing integration of reinforcement with original structure.
 - 7. Architect's Approval: Obtain approval of cutting and patching proposal before cutting and patching. Approval does not waive right to later require removal and replacement of unsatisfactory work.
 - 8. Removal of existing CMU, brick, and interior and exterior trim.
 - 9. Demolition & removal to be done in accordance to good work practices.
 - 10. Protect adjacent areas from construction dust.

1.3 QUALITY ASSURANCE

- A. Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.
 - 1. Including, but not limited to walls, beams, columns, and the like.
- B. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety.

- C. Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety.
- D. Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch construction exposed on the exterior or in occupied spaces in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

1.4 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void existing warranties.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Comply with requirements specified in other Sections.
- B. In-Place Materials: Use materials identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 - 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will match the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.
 - 1. Compatibility: Before patching, verify compatibility with and suitability of substrates, including compatibility with in-place finishes or primers.
 - 2. Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Temporary Support: Provide temporary support of Work to be cut.
- B. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- C. Adjoining Areas: Avoid interference with use of adjoining areas or interruption of free passage to adjoining areas.
- D. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize and avoid interruption to occupied areas.

3.3 PERFORMANCE

- A. General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - 1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - 1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots as small as possible, neatly to size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - 2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 - 3. Concrete & Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 - 4. Excavating and Backfilling: Comply with requirements in applicable Division 31 Sections where required by cutting and patching operations.
 - 5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 - 6. Proceed with patching after construction operations requiring cutting are complete.

- C. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other Work. Patch with durable seams that are as invisible as possible. Provide materials and comply with installation requirements specified in other Sections.
1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate integrity of installation.
 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will eliminate evidence of patching and refinishing.
 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
 5. Building Enclosures: Patch components in a manner that restores enclosure to a previous condition.
- D. Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

END OF SECTION 017329

SECTION 099100 - PAINTING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes surface preparation and field painting of exposed interior items and surfaces.
- B. **Note:** All paint products to contain no VOC's
- C. Paint all walls where new work has been installed and or patched. Match adjacent sheen.

1.2 SUBMITTALS

- A. Product Data: For each product indicated.
- B. Samples: For each type of finish-coat material indicated.

1.3 QUALITY ASSURANCE

- A. Comply with Standard PDCA procedures.

1.4 EXTRA MATERIALS

- A. Furnish extra paint materials from the same production run as the materials applied and in the quantities described below. Package with protective covering for storage and identify with labels describing contents. Deliver extra materials to Owner.
 - 1. Quantity: 1 gal. material and color applied.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products listed in other Part 2 articles.
- B. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2 articles.
- C. Manufacturers' Names: Shortened versions (shown in parentheses) of the following manufacturers' names are used in other Part 2 articles:

1. Benjamin Moore & Co. (Benjamin Moore).
2. ICI Dulux Paint Centers (ICI Dulux Paints).
3. PPG Industries, Inc. (Pittsburgh Paints).
4. Sherwin-Williams Co. (Sherwin-Williams).

2.2 PAINT MATERIALS, GENERAL

- A. Material Compatibility: Provide block fillers, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
- B. Material Quality: Provide manufacturer's best-quality paint material of the various coating types specified that are factory formulated and recommended by manufacturer for application indicated. Paint-material containers not displaying manufacturer's product identification will not be acceptable.
- C. Colors: As selected from manufacturer's full range.

2.3 PREPARATORY COATS

- A. Concrete Unit Masonry Block Filler: High-performance latex block filler of finish coat manufacturer and recommended in writing by manufacturer for use with finish coat and on substrate indicated.
- B. Interior Primer: Interior latex-based or alkyd primer of finish coat manufacturer and recommended in writing by manufacturer for use with finish coat and on substrate indicated.
 1. Ferrous-Metal Substrates: Quick drying, rust-inhibitive metal primer.
 2. Zinc-Coated Metal Substrates: Galvanized metal primer.
 3. Where manufacturer does not recommend a separate primer formulation on substrate indicated, use paint specified for finish coat.

2.4 INTERIOR FINISH COATS

- A. Interior Semigloss Acrylic Enamel:
 1. Benjamin Moore; Moorcraft Super Spec Latex Semi-Gloss Enamel No. 276.
 2. ICI Dulux Paints; 1406-XXXX Dulux Professional Acrylic Semi-Gloss Interior Wall & Trim Enamel.
 3. Pittsburgh Paints; 6-500 Series SpeedHide Interior Semi-Gloss Latex.
 4. Sherwin-Williams; ProMar 200 Interior Latex Semi-Gloss Enamel B31W200 Series.

PART 3 - EXECUTION

3.1 APPLICATION

- A. Examine substrates, areas, and conditions, with Applicator present, for compliance with requirements for paint application.
- B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
- C. Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of size or weight of the item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
- D. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written instructions for each particular substrate condition and as specified.
 - 1. Provide barrier coats over incompatible primers or remove and reprime.
 - 2. Cementitious Materials: Remove efflorescence, chalk, dust, dirt, grease, oils, and release agents. Roughen as required to remove glaze. If hardeners or sealers have been used to improve curing, use mechanical methods of surface preparation.
 - 3. Ferrous Metals: Clean ungalvanized ferrous-metal surfaces that have not been shop coated; remove oil, grease, dirt, loose mill scale, and other foreign substances. Use solvent or mechanical cleaning methods that comply with SSPC's recommendations.
 - a. Touch up bare areas and shop-applied prime coats that have been damaged. Wire-brush, clean with solvents recommended by paint manufacturer, and touch up with same primer as the shop coat.
 - 4. Galvanized Surfaces: Clean galvanized surfaces with nonpetroleum-based solvents so surface is free of oil and surface contaminants. Remove pretreatment from galvanized sheet metal fabricated from coil stock by mechanical methods.
- E. Material Preparation:
 - 1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
 - 2. Stir material before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into material. If necessary, remove surface film and strain material before using.
- F. Exposed Surfaces: Include areas visible when permanent or built-in fixtures, grilles, convactor covers, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.

1. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Before final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 2. Paint interior surfaces of ducts with a flat, nonspecular black paint where visible through registers or grilles.
 3. Paint back sides of access panels and removable or hinged covers to match exposed surfaces.
 4. Finish doors on tops, bottoms, and side edges the same as exterior faces.
 5. Finish interior of wall and base cabinets and similar field-finished casework to match
- G. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.
1. Omit primer over metal surfaces that have been shop primed and touchup painted.
 2. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance.
- H. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
- I. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate. Provide total dry film thickness of the entire system as recommended by manufacturer.
- J. Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to items exposed in equipment rooms and occupied spaces.
- K. Block Fillers: Apply block fillers to concrete masonry block at a rate to ensure complete coverage with pores filled.
- L. Prime Coats: Before applying finish coats, apply a prime coat, as recommended by manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to ensure a finish coat with no burn-through or other defects due to insufficient sealing.
- M. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.
- 3.2 CLEANING AND PROTECTING
- A. At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from Project site.
 - B. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect.

- C. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.
 - 1. After work of other trades is complete, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in PDCA P1.

3.3 INTERIOR PAINT SCHEDULE

A. Concrete Unit Masonry:

- 1. Acrylic Finish: Two finish coats over a block filler.
 - a. Block Filler: Concrete unit masonry block filler.
 - b. Finish Coats: Interior low-luster acrylic enamel]

B. Gypsum Board and patching

- 1. Acrylic Finish: Two finish coats over a primer.
 - a. Primer: Interior gypsum board primer.
 - b. Finish Coats: Interior low-luster acrylic enamel , semigloss acrylic enamel

C. Ferrous Metal:

- 1. Acrylic Finish: Two finish coats over a primer.
 - a. Primer: Interior ferrous-metal primer.
 - b. Finish Coats: Interior semigloss acrylic enamel.

D. Zinc-Coated Metal:

- 1. Acrylic Finish: Two finish coats over a primer.
 - a. Primer: Interior zinc-coated metal primer.
 - b. Finish Coats: Interior semigloss acrylic enamel.

E. All-Service Jacket over Insulation:

- 1. Acrylic Finish: Two finish coats. Add fungicidal agent to render fabric mildew proof.
 - a. Finish Coats: Interior flat latex-emulsion size.
- 2. Stain Coat: Interior wood stain.
- 3. Sealer Coat: Clear sanding sealer.
- 4. Finish Coats: Interior waterborne clear satin varnish.

END OF SECTION 099100

SECTION 13 47 15
BULLET RESISTANT PRODUCTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Bullet resistant products of the following types:
 - 1. Hollow metal doors and frames.
 - 2. Bullet Resistant glazing.
 - 3. Composite panels.
 - 4. Hardware

1.2 RELATED SECTIONS

- A. (05) Structural Metal Framing- See drawings
- B. (06) Carpentry, framing, hardware and misc. installation as required
- C. (07) Door Hardware-see allowance-this specification
- D. (09) Flooring, Ceiling-Contractor to install.
- E. (09) Gypsum Board-patching and infill as required
- F. Section 09 91 00 - Painting and Coating.

1.3 REFERENCES

- A. American National Standards Institute (ANSI): 1. ANSI Z97.1 - Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
- B. ASTM International (ASTM):
 - 1. ASTM C920 - Standard Specification for Elastomeric Joint Sealants.
 - 2. ASTM C1036 - Standard Specification for Flat Glass.
 - 3. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass.
 - 4. ASTM C1349 - Standard Specification for Architectural Flat Glass Clad Polycarbonate.
 - 5. ASTM D2000 - Standard Classification System for Rubber Products in Automotive Applications.
 - 6. ASTM E84 - Test method for the Surface Burning Characteristics of Building Materials.
 - 7. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
- C. American Welding Society (AWS): AWS D1.1 - Structural Welding Code - Steel.
- D. National Institute of Justice (NIJ): NIJ Standard 0108.01 - Standard for Ballistic Resistant Protective Materials.

- E. Underwriters Laboratories (UL):
 - 1. UL 752 - Standard for Bullet Resisting Equipment. (September 5th, 2005)
 - 2. UL 972 - Standard for Burglary Resisting Glazing Material.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 31 00 – Project Coordination
- B. Product Data:
 - 1. Manufacturer's data sheets on each product to be used.
 - 2. Preparation instructions and recommendations.
 - 3. Storage and handling requirements and recommendations.
 - 4. Installation methods.
- C. Shop Drawings:
 - 1. Submit shop drawings prepared by the manufacturer showing plans, sections, elevations, layouts, profiles and product component locations, including anchorage, bracing, fasteners, accessories and finishes.
 - 2. Include dimensioned elevation of each type opening assembly in project; indicate sizes and locations of hardware, and lites if specified.
 - 3. Schedule: Indicate each opening assembly in project; cross-referenced to plans, elevations, and details.
- D. Design Data: Bullet resistance analysis design calculations for specific project conditions, certifying system conformance to specified performance requirements.
- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
- F. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
- G. Closeout submittals: Warranty documents, issued and executed by manufacturer of systems, countersigned by Contractor.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products of the type specified with a minimum documented experience of five years.
- B. Installer Qualifications: Company specializing in installation of products specified with minimum three years documented experience.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 - 1. Finish areas designated by Architect.
 - 2. Do not proceed with remaining work until workmanship is approved by Architect.
 - 3. Refinish mock-up area as required to produce acceptable work.
 - 4. Accepted mock-ups shall be comparison standard for remaining Work
- D. Pre-installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, and manufacturer's installation instructions.
- E. Coordination of Work: Coordinate layout and installation of components with other construction supported by, or penetrating through, ceilings, including light fixtures, HVAC equipment, fire-suppression system, and partitions.

- F. Coordination: Bullet resistant protection shall be provided in the sizes and in the configuration indicated on the Drawings. Furnish hardware necessary for the joining of the components specified. Provide components complete with adhesives, fasteners, and other devices required for complete assembly.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's unopened, undamaged packaging, with manufacturer's labels intact.
- B. Remove wraps or covers from doors and frames upon delivery at the building site. Clean and touch-up scratches or disfigurement caused by shipping or handling promptly.
- C. Store products in manufacturer's unopened packaging until ready for installation. Store assemblies, off the ground and on end, to prevent damage to face corners and edges. Store assemblies covered to protect them from damage but permitting air circulation.

1.7 SEQUENCING

- A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.

1.8 PROJECT CONDITIONS

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

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer or approved equivalent: Total Security Solutions, 935 Garden Ln.; Fowlerville, MI 48836; ASD Toll Free Tel: 866-304-5070; Fax: 517-223-0805; Email: [request info](mailto:requestinfo@tssbulletproof.com); Web : <https://tssbulletproof.com/>
- B. Requests for substitutions will be considered in accordance with provisions of - Product Requirements.

2.2 BULLET RESISTANT REPLACEMENT GLAZING (Alternate #1)

- A. Glazing:
 - 1. Overall Size and Configuration: Verify in field
 - 2. Glazing: Top and bottom edge of the glazing to be capped with a minimum 20 gauge (0.912 mm) with a No. 4 finish.
 - a. Glazing to conform to UL 752 of the following protection level.
 - 1) Protection Level: 1.
 - b. Glazing Type: Glass/ Polycarbonate composite.

2.3 BULLET RESISTANT HOLLOW METAL DOORS AND FRAMES

- A. Bullet Resistant Hollow Metal Steel Doors and Frames: Provide door and frame prehung with factory primed finish. Doors and frames of a "non-ricochet type" design with a Total Security Solutions Bullet Resistant Fiberglass.

1. Steel Doors:
 - a. Door, Sizes and Configurations: As indicated on the Drawings.
 - 1) Door Type: Flush Glazed Door Type HL with a 20 inches by 30 inches (508 mm by 762 mm) glazed opening.
 - 2) Door Type: Flush Glazed Door Type FL with a 20 inches by 60 inches (508 mm by 1524 mm) glazed opening.
 - b. Thickness: 1-3/4 inches (44 mm) minimum.
 - c. Face Sheets:
 - 1) Doors for interior use: Steel sheet, 16 gauge (1.5 mm), factory primed.
 - 2) Visible seams on face sheets not permitted.
 - d. Core: Fill spaces between face sheets with foamed in place rigid urethane foam and fiberglass core
 - e. Vertical Edges:
 - 1) Join face sheets by continuous welding. Grind and fill, dress welds to smooth flush surface.
 - 2) Visible seams on vertical edges not permitted.
 - f. Horizontal Edges:
 - 1) Close top and bottom edges of doors with inverted continuous recessed steel channels, 12 gauge (2.657 mm) minimum; spot-weld channels to both door faces.
 - 2) Additional flush closing channel at top and bottom edges of exterior doors; spot-weld channel to both door faces.
 - 3) Openings in bottom closure of exterior doors to permit escape of entrapped moisture.
 - g. Hardware preparation:
 - 1) Mortise, reinforce, drill, and tap doors at factory for fully templated mortised hardware only, in accordance with approved hardware schedule and supplied templates.
 - 2) Cylindrical hardware, in accordance with approved hardware schedule and supplied templates.
 - 3) Exit devices, in accordance with approved hardware schedule and supplied templates.
 - 4) Reinforcing plates at surface-mounted or non-templated hardware locations.
 - h. Glazing Moldings and stops:
 - 1) Weld fixed moldings to door on security side.
 - 2) Loose stops, countersunk for fasteners.
 - 3) Form moldings with mitered corner joints.
 - i. Glazed lites: Factory-assemble lites in doors indicated to have lites, using glazing materials of the same ballistic level specified for the door and frame.
2. HM Door Frames: Welded units with integral trim, of sizes and profiles indicated and as follows:
 - a. Frame Sizes and Configuration: As indicated on the Drawings.
 - b. Frames for Interior Use: Steel sheet, minimum 16 gauge (1.5 mm) thickness, factory primed with Level 1 fiberglass liner
 - c. Stops: Minimum 5/8 inch (15.8 mm) in depth.
 - d. Contact edges of joints and mitered perimeter trim faces, continuously welded.
 - e. Hardware Preparation:
 - 1) Mortise, reinforce, drill, and tap frames at factory for fully templated mortised hardware, in accordance with approved hardware schedule.
 - 2) Reinforcing plates at surface-mounted hardware locations.

- f. Floor anchors:
 - 1) Minimum 18 gauge (1.214 mm) steel.
 - 2) Weld anchors inside each jamb for floor anchorage.
 - g. Jamb anchors:
 - 1) Weld anchors inside each jamb for wall anchorage.
 - 2) Anchors of types suitable for adjacent wall construction.
 - h. Plaster guards: Minimum 26 gauge (0.455 mm) galvanized steel; welded in place at hardware mortises on frames to be set in masonry or concrete openings.
 - i. Temporary steel spreader welded to jamb feet for bracing during shipping and handling.
3. Opening Security Level: Withstand bullet resistance level as follows, in accordance with UL 752.
- a. UL 752 Level 1.

2.4 BULLET RESISTANT AND DETENTION GLAZING

- A. Bullet Resistant Glazing
- 1. Performance: UL 752, UL-1 (MPSA) 9 mm 124 Gr., FMJ 1175-1295 fps:
 - a. Level 1:
 - b. LTI-BR1: Glass/Polycarbonate Composite, nominal thickness 13/16 inch (20 mm), nominal weight 8.99 lbs/SF.
- B. Forced Entry Glazing:
- 1. Performance: H.P. White Level-1 HPW-TP-0500-03:
 - a. GCP0916: Glass/Polycarbonate Composite, nominal thickness 9/16 inch (20 mm), nominal weight 5.1 lbs/SF.

2.5 BULLET RESISTANT COMPOSITE PANELS

- A. Composite Panels: Total Security Solutions-total Armor Bullet Protection Composite Panels. FRP composite panel manufactured using multiple layers of starch-oil woven roving ballistic grade fiberglass cloth impregnated with a thermoset polyester resin and compressed into flat rigid sheets.
- 1. Composite panels shall be of the "non ricochet type" intended to permit the encapture and retention of an attacking projectile lessening the potential of a random injury or lateral penetration.
 - 2. Material will meet ASTM E119 one hour fire resistance when installed in a non-bearing steel stud wall with 5/8 inch firecode gypsum on the exterior and with 5/8 inch (16 mm) firecode gypsum over the FRP panel on the inside.
 - 3. Panels conforming to UL 752 Rating level as follows:
 - a. UL Level I: totalArmor BB-1.
 - 4. Panels conforming to National Institute of Justice (N.I.J) 0108.01 Threat Level Rating as follows:
 - a. N.I.J Level I: totalArmor BB-A.

2.6 DOOR HARDWARE

A.. Coordination of interfaces among security and access control equipment, door hardware, doors, and frames.

. 1.01 REFERENCE STANDARDS A. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI/BHMA): 1. ANSI/BHMA 156 Standards Set B. National Fire Protection Association (NFPA): 1. NFPA 80 Standard for Fire Doors and Fire Windows

1.02 DESIGN REQUIREMENTS

A. Exit Doors: Openable at all times from the inside without the use of a key or any special knowledge or effort.

B. Fire-Rated Openings: Provide hardware for fire-rated openings in compliance with NFPA 80. This requirement takes precedence over other requirements for such hardware. Provide only such hardware which has been tested and listed by a nationally recognized testing laboratory for the type and size of door required, and complies with the requirements of the door and the door frame labels. Latching hardware, door closers, , and seals are required for fire-rated openings whether or not listed in the hardware schedule.

1. Provide hardware listed by nationally recognized testing laboratory for labeled and 20- minute openings in conformance with requirements for class of opening scheduled. Provide label or stamp of nationally recognized testing laboratory on hardware for labeled openings.

2. Where panic exit devices are required on fire-rated doors, provide supplementary marking on door's testing laboratory label on exit device indicating "Fire Exit Hardware."

1.03 HARDWARE ALLOWANCE: TOTAL AMT. **\$18,500.00**

2.7 FABRICATION

- A. Welds in accordance with requirements and standard practices of the American Welding Society. Exposed welds shall be ground flush and finished smooth.
- B. Joints and connections shall be tight, providing hairline joints and true alignment of adjacent members.
- C. Full entry units to be fabricated in sections, prepared for welding.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until openings and installing surfaces have been properly prepared.
 - 1. Verify openings are in accordance with approved shop drawings.
 - 2. Verify that supports have been installed in accordance with the Drawings.
- B. If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

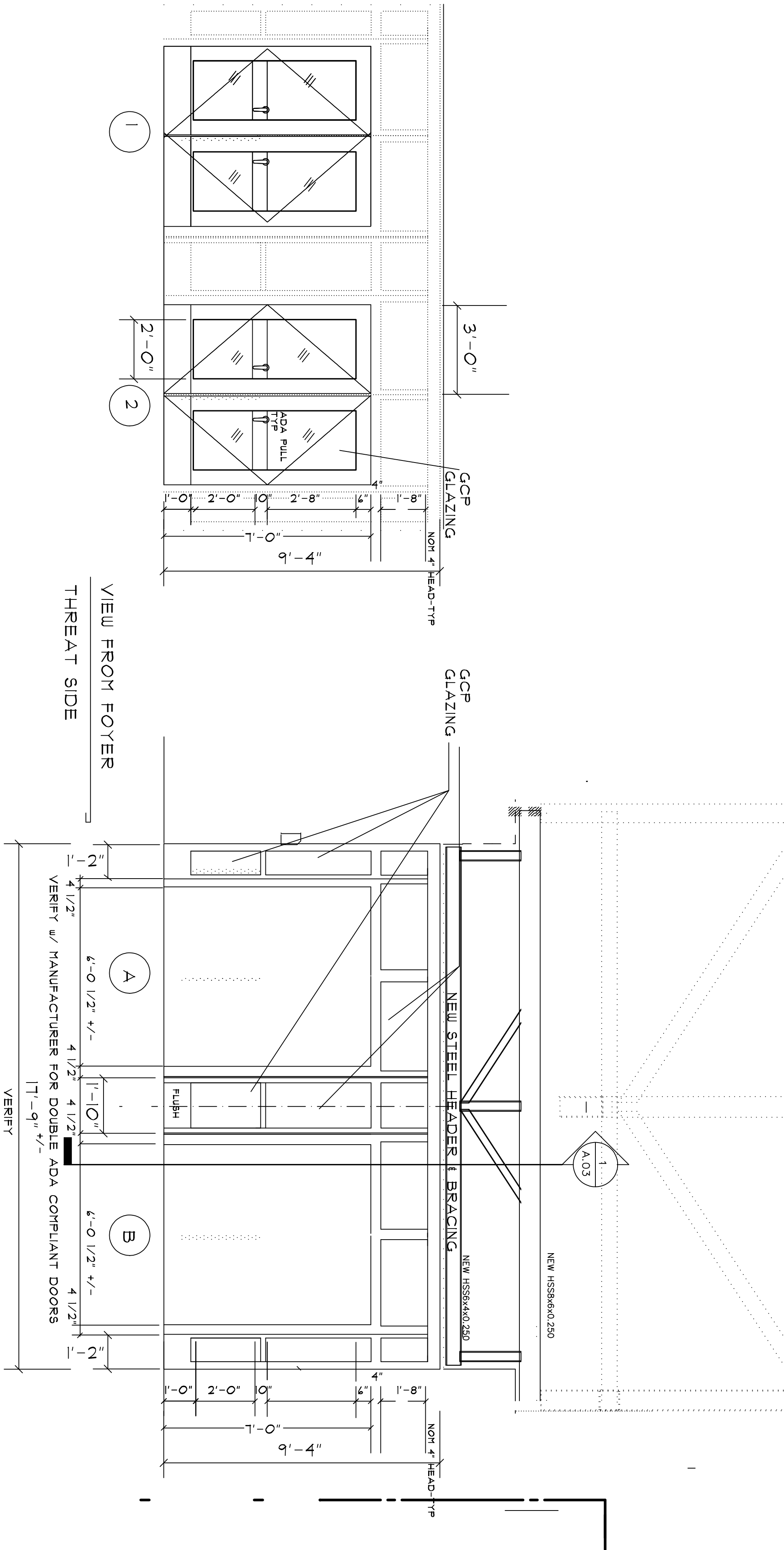
3.3 INSTALLATION

- A. Install products in accordance with approved submittals, manufacturer's instructions and requirements of UL 752.
 - 1. Install equipment plumb, level, rigid and in true alignment.
 - 2. Use proper anchoring devices. Exposed anchor holes shall be used for anchors.
 - 3. Install hardware as required for a complete installation.
 - 4. Where applicable, install fire-rated assemblies in accordance with NFPA 80.
 - 5. Adjust operating parts for proper operation, non-binding.
- B. Bullet Resistant Fiberglass Panels: Install using an industrial adhesive, mastic, screws or bolts. Method of application shall maintain the bullet resistive rating at junctures with the concrete floor slab, concrete roof slab, bullet resistive door frames, bullet resistive window frames, and required penetrations.
 - 1. Joints shall be reinforced by a back-up layer of bullet resistive material.
 - 2. Bullet resistance of the joint, as reinforced, shall be at least equal to that of the panel.
 - 3. Minimum width of reinforcing layer at joint shall be 4 inches (2 inches on each panel or a 2 inch minimum overlap).
- C. Installation Tolerances: Do not exceed the following installation tolerances:
 - 1. Squareness: Plus or minus 1/16 inch (1.6 mm) measured on a line, 90 degrees from one jamb, at the upper corner of the frame at the other jamb.
 - 2. Alignment: Plus or minus 1/16 inch (1.6 mm) measured on jambs on a horizontal line parallel to the plane of the wall.
 - 3. Twist: Plus or minus 1/16 inch (1.6 mm) measured at face corners of jambs on parallel lines perpendicular to the plane of the wall.
 - 4. Plumb: Plus or minus 1/16 inch (1.6 mm) measured on the jamb at the floor.
- D. Hardware:
 - 1. Install each hardware item per manufacturer's instructions and recommendations. Do not install surface mounted items until finishes have been completed on the substrate. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
 - 2. Electrified Hardware: For cable termination to electrified hardware, provide coordination so that cable is routed to door from transfer hinge to lockset, prior to buttoning up.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION



DOOR ELEVATIONS

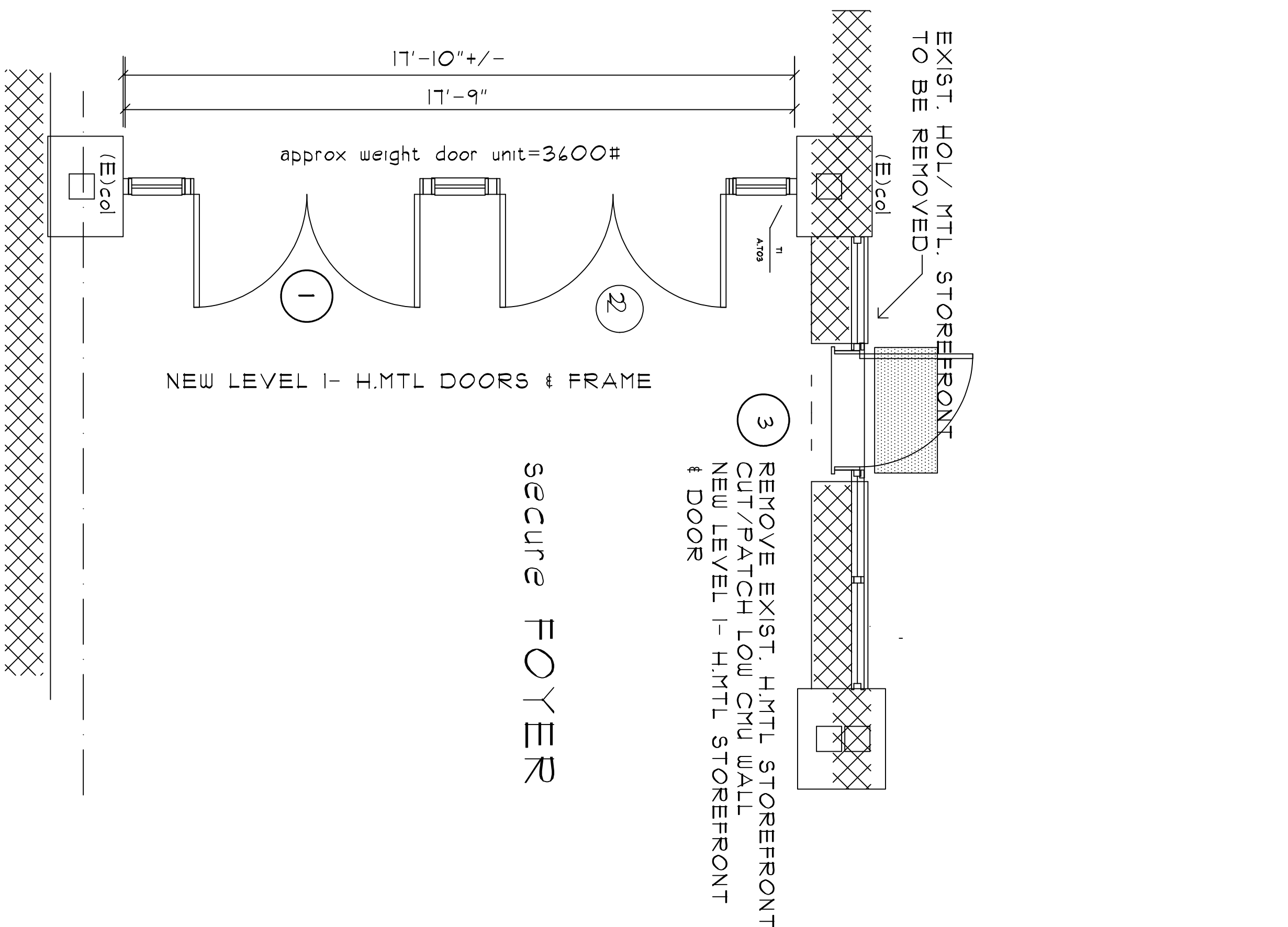
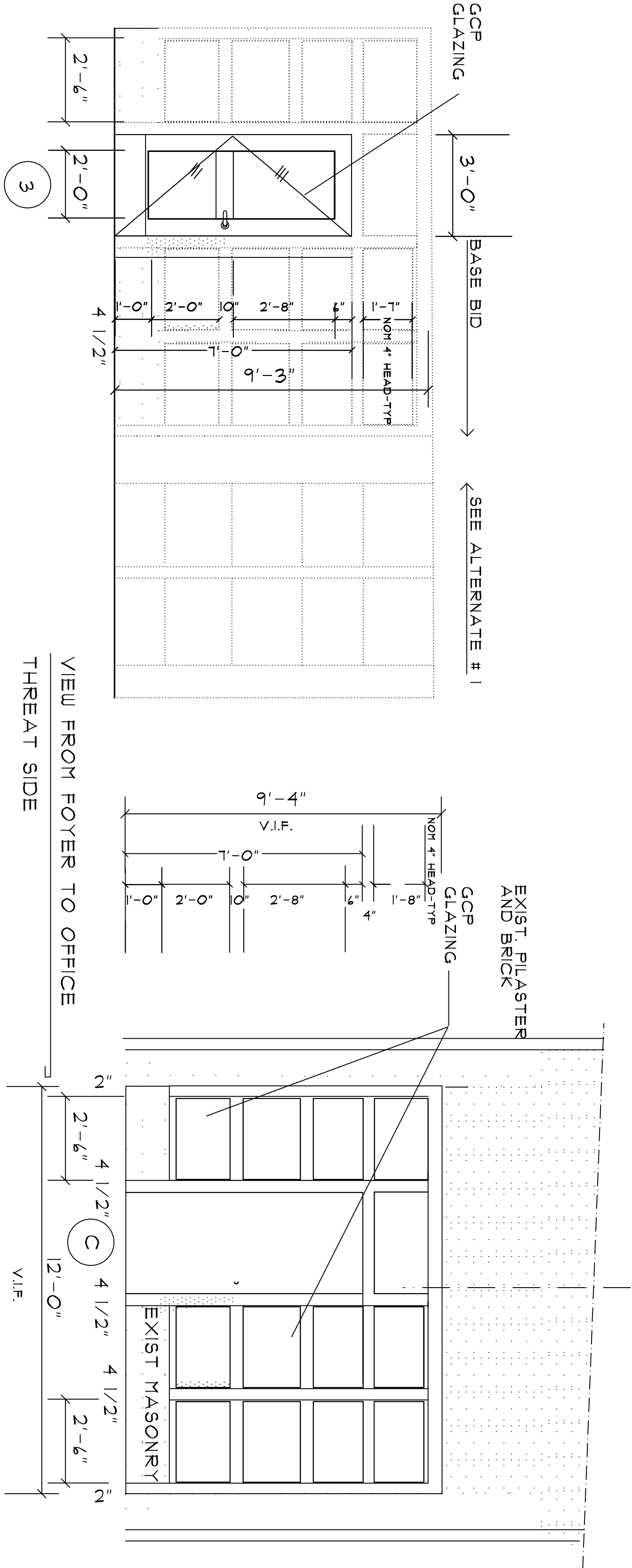
PLAN/ELEVATIONS

SCALE: 3/8" = 1'-0"

HOLLOW METAL FRAME ELEVS.

VIEW FROM FOYER

VIEW FROM CORRIDOR



DOOR/OPENING SCHEDULE									
No.	SIZE	DOOR TYPE	FINISH	ELEVATION	TYPE	FINISH	FRAME	ELEVATION	DETAILS
1	3.0 x 7.0	PAIR	HM	PAINT	1 HM	PAINT	A	NR	See Elys
2	3.0 x 7.0	PAIR	-	2"	-	B	NR	NR	See Elys
3	3.0 x 7.0	PAIR	-	3"	-	C	NR	NR	See Elys
4	3.0 x 7.0	PAIR	-	3"	-	D	NR	NR	See Elys
5	3.0 x 7.0	PAIR	-	3"	-	E	NR	NR	See Elys
6	3.0 x 7.0	PAIR	-	3"	-	F	NR	NR	See Elys
7	3.0 x 7.0	PAIR	-	3"	-	G	NR	NR	See Elys
8	3.0 x 7.0	PAIR	-	3"	-	H	NR	NR	See Elys
9	3.0 x 7.0	PAIR	-	3"	-	I	NR	NR	See Elys
10	3.0 x 7.0	PAIR	-	3"	-	J	NR	NR	See Elys
11	3.0 x 7.0	PAIR	-	3"	-	K	NR	NR	See Elys
12	3.0 x 7.0	PAIR	-	3"	-	L	NR	NR	See Elys
13	3.0 x 7.0	PAIR	-	3"	-	M	NR	NR	See Elys
14	3.0 x 7.0	PAIR	-	3"	-	N	NR	NR	See Elys
15	3.0 x 7.0	PAIR	-	3"	-	O	NR	NR	See Elys
16	3.0 x 7.0	PAIR	-	3"	-	P	NR	NR	See Elys
17	3.0 x 7.0	PAIR	-	3"	-	Q	NR	NR	See Elys
18	3.0 x 7.0	PAIR	-	3"	-	R	NR	NR	See Elys
19	3.0 x 7.0	PAIR	-	3"	-	S	NR	NR	See Elys
20	3.0 x 7.0	PAIR	-	3"	-	T	NR	NR	See Elys
21	3.0 x 7.0	PAIR	-	3"	-	U	NR	NR	See Elys
22	3.0 x 7.0	PAIR	-	3"	-	V	NR	NR	See Elys
23	3.0 x 7.0	PAIR	-	3"	-	W	NR	NR	See Elys
24	3.0 x 7.0	PAIR	-	3"	-	X	NR	NR	See Elys
25	3.0 x 7.0	PAIR	-	3"	-	Y	NR	NR	See Elys
26	3.0 x 7.0	PAIR	-	3"	-	Z	NR	NR	See Elys
27	3.0 x 7.0	PAIR	-	3"	-	AA	NR	NR	See Elys
28	3.0 x 7.0	PAIR	-	3"	-	AB	NR	NR	See Elys
29	3.0 x 7.0	PAIR	-	3"	-	AC	NR	NR	See Elys
30	3.0 x 7.0	PAIR	-	3"	-	AD	NR	NR	See Elys
31	3.0 x 7.0	PAIR	-	3"	-	AE	NR	NR	See Elys
32	3.0 x 7.0	PAIR	-	3"	-	AF	NR	NR	See Elys
33	3.0 x 7.0	PAIR	-	3"	-	AG	NR	NR	See Elys
34	3.0 x 7.0	PAIR	-	3"	-	AH	NR	NR	See Elys
35	3.0 x 7.0	PAIR	-	3"	-	AI	NR	NR	See Elys
36	3.0 x 7.0	PAIR	-	3"	-	AJ	NR	NR	See Elys
37	3.0 x 7.0	PAIR	-	3"	-	AK	NR	NR	See Elys
38	3.0 x 7.0	PAIR	-	3"	-	AL	NR	NR	See Elys
39	3.0 x 7.0	PAIR	-	3"	-	AM	NR	NR	See Elys
40	3.0 x 7.0	PAIR	-	3"	-	AN	NR	NR	See Elys
41	3.0 x 7.0	PAIR	-	3"	-	AO	NR	NR	See Elys
42	3.0 x 7.0	PAIR	-	3"	-	AP	NR	NR	See Elys
43	3.0 x 7.0	PAIR	-	3"	-	AQ	NR	NR	See Elys
44	3.0 x 7.0	PAIR	-	3"	-	AR	NR	NR	See Elys
45	3.0 x 7.0	PAIR	-	3"	-	AS	NR	NR	See Elys
46	3.0 x 7.0	PAIR	-	3"	-	AT	NR	NR	See Elys
47	3.0 x 7.0	PAIR	-	3"	-	AU	NR	NR	See Elys
48	3.0 x 7.0	PAIR	-	3"	-	AV	NR	NR	See Elys
49	3.0 x 7.0	PAIR	-	3"	-	AW	NR	NR	See Elys
50	3.0 x 7.0	PAIR	-	3"	-	AX	NR	NR	See Elys
51	3.0 x 7.0	PAIR	-	3"	-	AY	NR	NR	See Elys
52	3.0 x 7.0	PAIR	-	3"	-	AZ	NR	NR	See Elys
53	3.0 x 7.0	PAIR	-	3"	-	BA	NR	NR	See Elys
54	3.0 x 7.0	PAIR	-	3"	-	BB	NR	NR	See Elys
55	3.0 x 7.0	PAIR	-	3"	-	BC	NR	NR	See Elys
56	3.0 x 7.0	PAIR	-	3"	-	BD	NR	NR	See Elys
57	3.0 x 7.0	PAIR	-	3"	-	BE	NR	NR	See Elys
58	3.0 x 7.0	PAIR	-	3"	-	BF	NR	NR	See Elys
59	3.0 x 7.0	PAIR	-	3"	-	BG	NR	NR	See Elys
60	3.0 x 7.0	PAIR	-	3"	-	BH	NR	NR	See Elys
61	3.0 x 7.0	PAIR	-	3"	-	BI	NR	NR	See Elys
62	3.0 x 7.0	PAIR	-	3"	-	BJ	NR	NR	See Elys
63	3.0 x 7.0	PAIR	-	3"	-	BK	NR	NR	See Elys
64	3.0 x 7.0	PAIR	-	3"	-	BL	NR	NR	See Elys
65	3.0 x 7.0	PAIR	-	3"	-	BM	NR	NR	See Elys
66	3.0 x 7.0	PAIR	-	3"	-	BN	NR	NR	See Elys
67	3.0 x 7.0	PAIR	-	3"	-	BO	NR	NR	See Elys
68	3.0 x 7.0	PAIR	-	3"	-	BP	NR	NR	See Elys
69	3.0 x 7.0	PAIR	-	3"	-	BQ	NR	NR	See Elys
70	3.0 x 7.0	PAIR	-	3"	-	BR	NR	NR	See Elys
71	3.0 x 7.0	PAIR	-	3"	-	BS	NR	NR	See Elys
72	3.0 x 7.0	PAIR	-	3"	-	BT	NR	NR	See Elys
73	3.0 x 7.0	PAIR	-	3"	-	BU	NR	NR	See Elys
74	3.0 x 7.0	PAIR	-	3"	-	BV	NR	NR	See Elys
75	3.0 x 7.0	PAIR	-	3"	-	BW	NR	NR	See Elys
76	3.0 x 7.0	PAIR	-	3"	-	BX	NR	NR	See Elys
77	3.0 x 7.0	PAIR	-	3"	-	BY	NR	NR	See Elys
78	3.0 x 7.0	PAIR	-	3"	-	BZ	NR	NR	See Elys
79	3.0 x 7.0	PAIR	-	3"	-	CA	NR	NR	See Elys
80	3.0 x 7.0	PAIR	-	3"	-	CB	NR	NR	See Elys
81	3.0 x 7.0	PAIR	-	3"	-	CC	NR	NR	See Elys
82	3.0 x 7.0	PAIR	-	3"	-	CD	NR	NR	See Elys
83	3.0 x 7.0	PAIR	-	3"	-	CE	NR	NR	See Elys
84	3.0 x 7.0	PAIR	-	3"	-	CF	NR	NR	See Elys
85	3.0 x 7.0	PAIR	-	3"	-	CG	NR	NR	See Elys
86	3.0 x 7.0	PAIR	-	3"	-	CH	NR	NR	See Elys
87	3.0 x 7.0	PAIR	-	3"	-	CI	NR	NR	See Elys
88	3.0 x 7.0	PAIR	-	3"	-	CJ	NR	NR	See Elys
89	3.0 x 7.0	PAIR	-	3"	-	CK	NR	NR	See Elys
90	3.0 x 7.0	PAIR	-	3"	-	CL	NR	NR	See Elys
91	3.0 x 7.0	PAIR	-	3"	-	CM	NR	NR	See Elys
92	3.0 x 7.0	PAIR	-	3"	-	CN	NR	NR	See Elys
93	3.0 x 7.0	PAIR	-	3"	-	CO	NR	NR	See Elys
94	3.0 x 7.0	PAIR	-	3"	-	CP	NR	NR	See Elys
95	3.0 x 7.0	PAIR	-	3"	-	CQ	NR	NR	See Elys
96	3.0 x 7.0	PAIR	-	3"	-	CR	NR	NR	See Elys
97	3.0 x 7.0	PAIR	-	3"	-	CS	NR	NR	See Elys
98	3.0 x 7.0	PAIR	-	3"	-	CT	NR	NR	See Elys
99	3.0 x 7.0	PAIR	-	3"	-	CU	NR	NR	See Elys
100	3.0 x 7.0	PAIR	-	3"	-	CV	NR	NR	See Elys

STEEL LINTEL SCHEDULE

- FURNISH LOOSE ANGLE LINTELS OVER NEW MASONRY OPENINGS IN EXISTING WALLS.

ONE ANGLE TO BE PROVIDED FOR EACH 4" OF WALL THICKNESS
MINIMUM 6" OF BEARING.

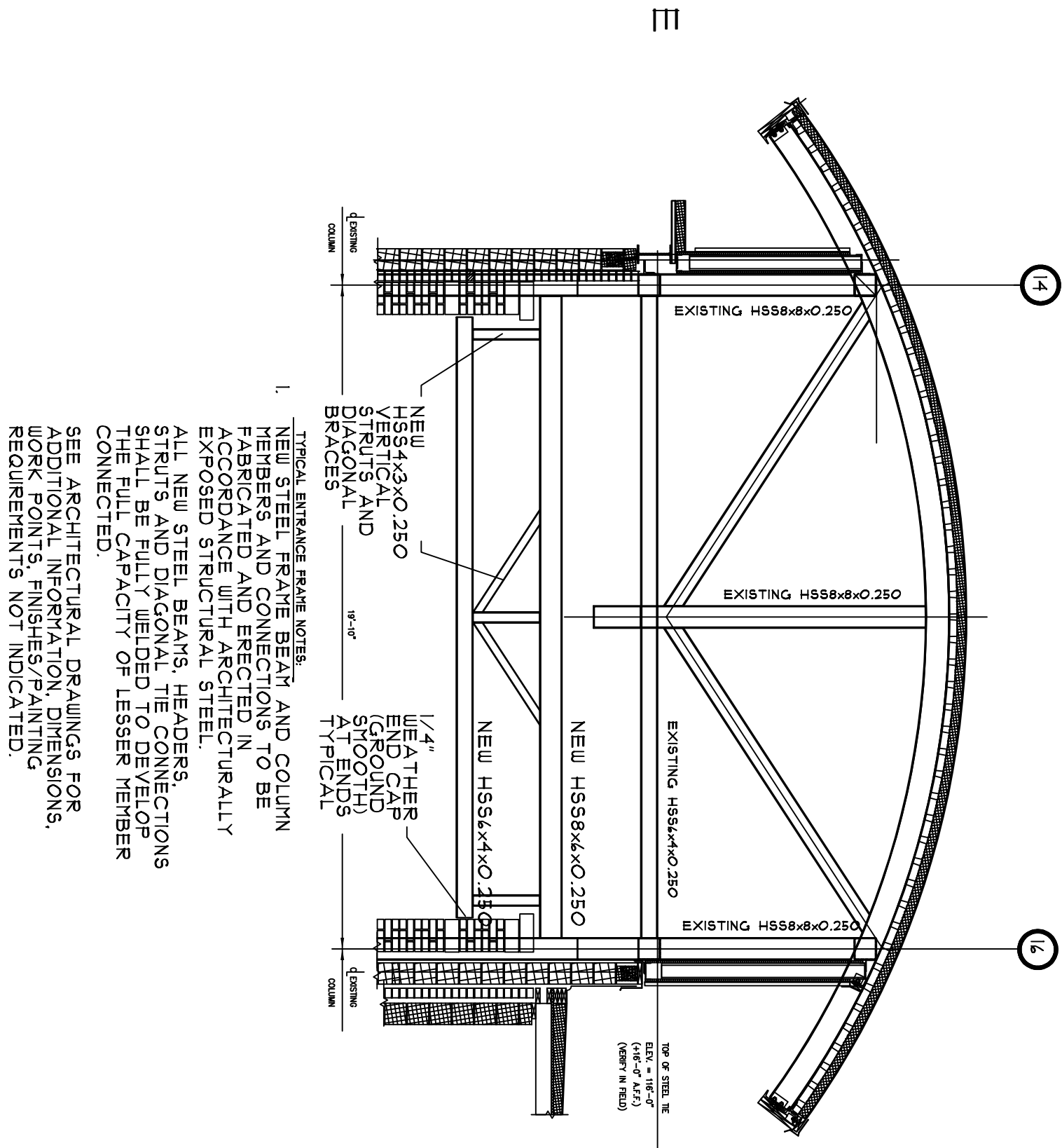
- UP TO 4' SPAN: 3 1/2"X 3 1/2"X 5/16"

ABUSE-RESISTANT TYPE X GYPSUM PANEL

- ASTM C1394, *Standard Specification for Gypsum Board*, for 5/8" (15.9 mm) and 1/2" X gypsum wallboard
1. Base of Design: Subject to compliance with project requirements, the design is based on the following: United States Gypsum Company, USG, Sheetrock, Brand AR Firecode X Panels
2. UL Type Designation: "AR"
3. ASTM E136 Noncombustibility: Meets
4. ASTM E84 Surface-Burning Characteristics
- a. Flame Spread: 15
- b. Smoke Developed: 5
- c. Class A Flame spread not greater than 25 and smoke developed not greater than 45 Meets
5. ASTM C413, Standard Test Methods for Physical Testing of Gypsum Panels Products
- a. Core Hardness
- 1) Field [Not less than 11 lbf (49 N)]: Meets
- 2) End [Not less than 11 lbf (49 N)]: Meets
- 3) Edge [Not less than 11 lbf (49 N)]: Meets
- b. Flexural Strength
- 1) Parallel [Not less than 46 lbf (205 N) Meets
- 2) Perpendicular [Not less than 147 lbf (654 N)]: Meets
- c. Nail Pull Resistance [Not less than 87 lbf (387 N) Meets
- d. Humidified Deflection [Not greater than 5/8 in. (15.9 mm)]: Meets
6. Thickness: 5/8 in. (15.9 mm)
7. Length: 8'-0 ft. (2438±0.48 mm), 12 ft. (3658 mm)
8. Width: 4 ft. (1219 mm)
9. Weight: 2.8 lb./sq. ft. (13.7 kg/sq. m)
10. Edge: Tapered
- B. ASTM C1629, Standard Classification for Abuse-Resistant, Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels
1. Abrasion Resistance per ASTM D4471: Level 2 (USG testing demonstrates that when painted with one coat of primer and two coats of semi-gloss latex paint, the abrasion resistance increases to Level 3)
2. Indentation Resistance per ASTM D5240: Level 1
3. Soft-Body Impact Resistance per ASTM C1629: Level 2
- C. Hard-Body Impact Resistance per ASTM C1629: Level 1
- D. INSTALLATION STANDARD: ASTM C 154
- E. APPLYING/FINISHING--COMPLY WITH ASTM C 840, GA-216, Level 1

APPLICABLE CODES

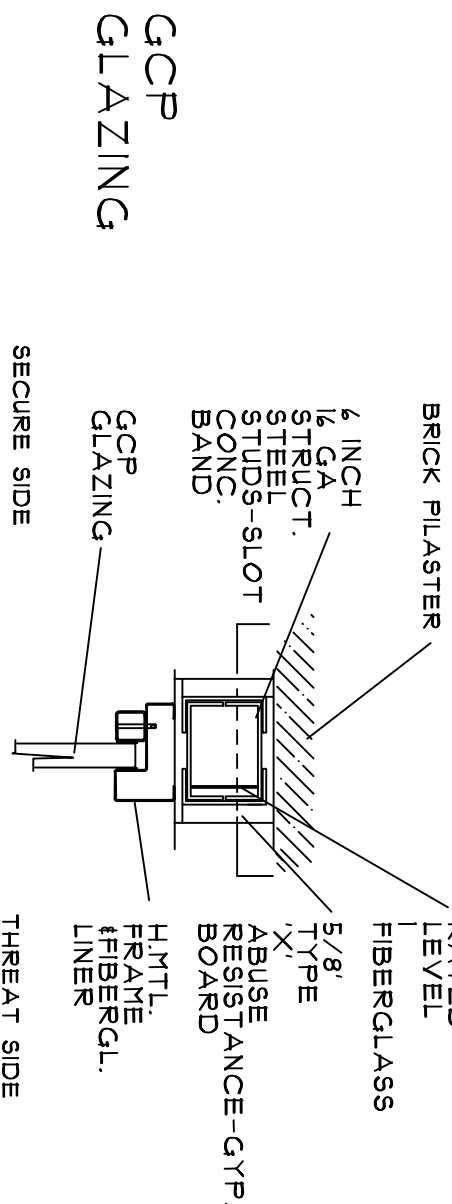
- 2021 International Building Code
2017 ICC/ANSI A117.1 Accessible and Usable Buildings and Facilities
2021 International Existing Building Code
(primary code for this proj.)
2021 International Plumbing Code
2021 International Mechanical Code
2021 International Energy Conservation Code
2020 NFPA 70, National Electrical Code, of the National Fire Protection Association Inc.
2022 Connecticut State Fire Safety Code – 2021 IFC Portion



NEW FOYER DOOR SUPPORT FRAME

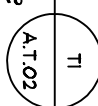
TORRINGTON ELEMENTARY SCHOOL

SCALE: NONE



NEW FOYER JAMB FRAME

TORRINGTON ELEM. SCHOOL-not to scale



STRUCTURAL GENERAL NOTES

- [illegible]

COLD FORMED STRUCTURAL METAL FRAMING NOTES:

1. ALL STRUCTURAL METAL FRAMING SHALL CONFORM TO AND BE ERRECTED IN ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF AMERICAN IRON AND STEEL INSTITUTE (AISI) COLD-FORMED STEEL DESIGN MANUAL-- SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
2. ALL JOISTS AND ACCESSORIES SHALL BE GALVANIZED AND SHALL BE FORMED FROM STEEL THAT CONFORMS TO THE REQUIREMENTS OF ASTM A-441 WITH A YIELD OF 50 KSI.
3. ENGINEERING CALCULATIONS OR DATA SHALL BE SUBMITTED VERIFYING THE FRAMING ASSEMBLY'S ABILITY TO MEET OR EXCEED DESIGN REQUIREMENTS.
4. ALL CONSTRUCTION MEMBER TO MEMBER, AND MEMBER TO STRUCTURE) SHALL BE THOROUGHLY EXAMINED AND DESIGNED.
5. JOIST HANGERS (REGULAR AND BRIDGE TYPE) SHALL BE MANUFACTURERS' STANDARD FOR JOIST DEPTH AND LOADING.
6. PROVIDE WEB STIFFENERS WHERE NECESSARY AT REACTION POINTS, AND AT POINTS OF CONCENTRATED LOADS.
7. END BLOCKING SHALL BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTAINED FROM ROTATION.
8. ALL BRIDGING, BRACING, BLOCKING, STRAPPING, WEB REINFORCEMENT, ETC. MUST BE IN PLACE PRIOR TO LOADING.
9. HOLES THAT ARE FIELD CUT INTO STEEL FRAMING MEMBERS SHALL BE WITHIN THE LIMITATIONS OF THE PRODUCT AND ITS DESIGN. PROVIDE REINFORCEMENT WHERE HOLES ARE CUT THROUGH LOAD BEARING MEMBERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND AS APPROVED BY PROJECT ARCHITECT OR ENGINEER.

 NORTH	A.T03	SCALE AS NOTED DRAWN BY ALL CHECKED BY JSA PROJECT NO 22013 DATE FEB. 1, 2023 MAR. 25, 2023	NOTES & DETAILS	SHEET TITLE:	TORRINGTON SCHOOL ENTRY MODIFICATIONS 800 CHARLES STREET TORRINGTON, CONNECTICUT	PROJECT:	TORRINGTON BOARD OF EDUCATION TORRINGTON, CONNECTICUT	 JOSEPH S. ALICATA ARCHITECT FOX BROOK ROAD tel (860) 653.6422 PO BOX 191 E. HARTLAND, CT 06027 JSA@alicatanet.com www.alicatanet.com
		SHEET NO.		TORRINGTON SCHOOL ENTRY MODIFICATIONS	TORRINGTON, CONNECTICUT			