

PHASE V
WINDOW & SIDING & ROOF REPLACEMENT

at

GREEN VALLEY
and
LAUREL PARK
ENFIELD, CONNECTICUT

for the

ENFIELD HOUSING AUTHORITY
1 Pearson Way
Enfield, CT 06082

Affirmative Action/Equal Opportunity Employer
MBE & WBE are encouraged to apply

Ms. Shari Riddick, Executive Director

JUNE 12, 2025

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CSA No. 25-09

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HOUSING AUTHORITY OF THE TOWN OF ENFIELD

1 Pearson Way, Enfield, CT 06082
(860) 745-7493 Fax (860) 741-8439
TDD/TTY 800-545-1833 Ext. 849
bdufour@enfieldha.org www.enfieldha.org



Laurel Park Windows, Siding, and Roof Replacement Phase 6

1. INTRODUCTION

The Housing Authority of the Town of Enfield is soliciting sealed bids for the above-named products and materials. If there are any conflicts between the instructions in these Standard Instructions to bidders and any other bid document(s), these Standard Instructions to Bidders shall prevail.

2. KEY EVENT DATES

- Advertisement of Invitation for Bid: Thursday, June 12, 2025
- Project Walkthrough: 2:00 pm on Thursday June 19, 2025
- Q/A posted: June 24, 2025
- Public Bid Opening: 3:30 pm, Tuesday, July 1, 2025
- Project Awarded: (not definite) Week of July 7th.
- Notice to proceed immediately to follow the award.

3. OBTAINING BID DOCUMENTS

Specifications and bid documents are available on the Authority's website, by contacting William DuFour at bdufour@enfieldha.org or the Authority's website <https://www.enfieldha.org/procurement.aspx>.

4. BID SUBMISSION INSTRUCTIONS

One (1) original and two (2) copies of all bids must be submitted in a sealed envelope clearly marked " **Laurel Park Windows, Siding, and Roof Replacement Phase 1**". If forwarded by mail the sealed envelope must be addressed to "Enfield Housing Authority, 1 Pearson Way, Enfield, Connecticut 06082". Bids must be at the office by the time of the Public Bid Opening date noticed in Section 2, titled KEY EVENT DATES. Corrections and/or modifications received after the first bid is publicly opened will NOT be accepted.

- a. All information must be submitted in ink or typewritten. Mistakes may be crossed out and corrections inserted. Corrections must be initialed by the person signing the bid page.
- b. Responses are considered valid for ninety (90) days after responses(s) are opened. Vendors may not withdraw, cancel or modify their response for a period of ninety (90) days after responses(s) are opened.
- c. Responses must be signed by an authorized person representing the legal entity of the firm submitting the response.
- d. The inability to meet any specified requirements must be stated in writing and attached to the bid form or written on the bid form.

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5. PRESUMPTION OF BIDDERS BEING FULLY INFORMED

At the time the first response is opened, each vendor is presumed to have read and be thoroughly familiar with all bid documents and contract documents for this project. Failure or omission of the vendor to receive or examine any information shall in no way relieve any vendor from obligations with respect to this IFB and their responses.

6. INTERPRETATION OF ACCEPTABLE WORK, PRODUCTS OR MATERIALS

The Scope of Work, specifications, responses and contract documents are to be interpreted as meaning those acceptable to the Housing Authority of the Town of Enfield. Any substantive changes or interpretations will be issued by the Authority in writing as an addendum.

7. TAX EXEMPTIONS

The Housing Authority of the Town of Enfield is exempt from Federal Excise taxes and Connecticut Sales and Use taxes. Firms shall avail themselves of these exemptions. The Authority will provide approved vendors with Tax Exemption Certificates upon request.

8. INSURANCE

- a. Provider shall agree to maintain in force at all times during the contract the following minimum coverage. Insurance shall be written with Carriers approved in the State of Connecticut and with a minimum AM Best's Rating of "A" VIII. In addition, all Carriers are subject to approval by the Enfield Housing Authority. Minimum Limits:
- b. General liability coverage limits for bodily injury, property damage, and personal injury, \$1,000,000 per occurrence/\$2,000,000 general aggregate. Product and completed operations aggregate of \$2,000,000. General Liability must also include Contractual Liability.
- c. Auto liability limits for property damage and bodily injury caused by the operation of motor vehicles, \$1,000,000 per occurrence. The Enfield Housing Authority shall be named as an Additional Insured.
- d. Umbrella/Excess Liability \$5,000,000 and \$5,000,000 Aggregate. General Liability, Auto Liability and Workers' Compensation to be listed as underlying coverages. Umbrella/Excess Liability to follow form with respect to Additional Insured and Waiver of Subrogation.
- e. Workers' Compensation - For all the employees employed on said Work shall be maintained in accordance with Connecticut's Workers' Compensation Act. In case any class of employees engaged in hazardous Work under the contract at the site of the Work is not protected under the Workers' Compensation Act, the contractor shall provide Workers' Compensation Insurance for the protection of its employees not otherwise protected. Waiver of Subrogation to be provided.

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9. BID BOND

Bidders are required to furnish a bid surety at the time the first bid is opened in the amount two thousand (\$2,000) dollars. The bid surety should be in one of the following three (3) forms: (a) a bank certified check, (b) a bank check, or (c) a surety company bond. The surety company must be authorized to write such surety bonds in the State of Connecticut. Checks or bonds must be drawn to the order of "Housing Authority of the Town of Enfield."

10. PERFORMANCE BOND AND PAYMENT BOND

To ensure the faithful execution of this bid according to its provisions, the Vendor awarded this bid must provide to the Authority, at the Vendor's expense, a performance and payment bond in the amount of two thousand (\$2,000) dollars. The bonds must be issued by a company authorized to write such surety bonds in the State of Connecticut. The bonds shall be drawn to the order of the "Housing Authority of the Town of Enfield. "

11. GUARANTEE

The Vendor awarded this bid shall guarantee all products supplied for a period of one (1) year from the date of purchase as determined by the Authority, as a condition of the performance bond. In addition, the Vendor shall provide the Authority with all warranty and guarantee documentation from the manufacturer of the products supplied pursuant to the RFP.

12. FAIR EMPLOYMENT PRACTICES

The Vendor agrees not to discriminate against any employee or applicant for employment in the performance of this Contract's work with respect to hire, tenure, terms, conditions, or privileges of employment due to race, sex, age, religion, national origin, or other conditions proscribed by State or Federal law.

13. STANDARD FORM OF CONTRACTUAL AGREEMENT

The Authority intends to enter into a contract with the Vendor. The contract will include and incorporate the provisions of this Invitation for Bids, including the Scope of Work and Qualifications, and the Bid Form submitted by the approved vendor. In the event of any conflict between the IFB documents and the successful vendor's Bid Form, the IFB documents shall prevail.

14. AWARDING THE PROJECT

The Authority reserves the right to accept or reject, any, all, or any part of responses, to waive formalities or informalities, and to make an award that is deemed to be in the best interests of the Authority. The "Contract Awarded" date in Section 2, titled Key Event Dates is the date the contracts are anticipated to be awarded. It is not a date certain. The lowest priced bid is NOT the sole determining factor when awarding this project.

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15. MODIFICATIONS AND ADDENDA

The Authority may, before or after bid opening and in its sole discretion, clarify, modify, amend or terminate this IFB if the Authority determines it is in its best interest. Any such action shall be effected by a posting on the Authority's website, <https://www.enfieldha.org/procurement.aspx>

Each respondent is responsible for checking the Authority's website to determine if the Authority has issued any addenda and, if so, to complete its bid in accordance with the IFB as modified by the addenda.

Scope of Work

1. Introduction

- a. Laurel Park is located along the northwest side of Enfield High School in the Town of Enfield, Connecticut.
- b. The Housing Authority of the Town of Enfield invites sealed bids for the complete removal and replacement of all siding, windows, storm doors, roofing material, trim, millwork, flashing, gutter systems, and sealants to reach the following goals:
 - i. Complete demolition of specified areas and replacement of all affected exterior trim, millwork, siding, windows, roofing materials, and corresponding systems.
 - ii. Remove all loose paint, sealants, and coating materials as applicable.
 - iii. Prep substrate systems for new material installation.
 - iv. Watertight sealing of entire structure should be achieved.
 - v. All millwork and trim will be new Foam Plastic Moldings (AZEK) as applicable.
 - vi. All gutter boxes and exposed trim to be sealed with appropriate waterproofing materials and coatings.
 - vii. Install new replacement style windows and all break metal flashing.
 - viii. All paint chips, and construction debris to be removed from the property and the landscaping restored if disturbed.
 - ix. Removing and disposing of the existing layer(s) of asphalt shingles, underlayment material, and all associated fasteners.
 - x. Inspection and replacement of any rotted, warped, or broken roof decking or substrate.
 - xi. Installing new underlayment material, flashing, ice shields, and asphalt shingles. A GAF, 25-year minimum guarantee, or similar, compliance is required for all materials.
 - xii. Installation of all trim metal, drip edge, coil stock or AZEK trim etc.
 - xiii. Installing vents and other associated accessories as necessary.
 - xiv. Scope is not limited to the items listed above.

2. Pre-Construction Phase

- a. Review Specifications and Drawings provided by the Owner during bid process.
- b. Provide material submittals for the Owner's approval.
- c. Provide anticipated Project Schedule.
- d. Attend pre-construction conferences as needed.

3. Construction Phase

- a. Maintain and update the Project Schedule as conditions change including product lead times.
- b. Maintain quality control and ensure conformity to construction documents.
- c. Coordinate with Housing Staff to maintain all building operations.
- d. Submit all executed trade contract agreements with all subcontractors.
- e. The Contractor will obtain all Building and applicable permits. All fees will be waived except for State Permits and specialty permits.
- f. The Contractor may utilize the water supply, power, and sanitary facilities from the Housing Authority if available.
- g. The Contractor shall provide all necessary on-site Construction Management personnel.

SCOPE OF WORK (CONTINUED)

4. Post Construction

- a. Submit all applicable product warranties to the manufacturer.
- b. Coordinate and monitor the proper completion of all “punch list” items as determined by the Authority.
- c. Resolve all warranty issues to the satisfaction of the Authority during the one-year general warranty period and beyond where applicable.
- d. Develop and maintain an effective program so all Operating and Maintenance Manuals and other preventative maintenance information is delivered to the Authority.
- e. Post construction testing if applicable.

5. General Requirements

- a. The Authority shall be notified at least five (5) days prior to beginning work.
- b. A meeting with Authority staff, and the Contractor shall be held prior to beginning work. This meeting will be arranged by the Authority. Construction meetings with Authority staff will be held as needed, but at least weekly, either at the site or at the Authority administrative offices.
- c. Upon completion or termination of the work, the Contractor shall remove from the vicinity of the site all equipment and all temporary structures, waste materials and rubbish resulting from its operations, leaving the premises in a neat and presentable condition. In the event of failure to do so, the same may be done by the Authority at the expense of the Contractor.
- d. The Authority is seeking a complete turnkey proposal. The Contractor should be prepared to submit an inclusive proposal price.

FORM OF BID
PHASE V
Window & Siding Replacement
at
Green Valley & Laurel Park
Enfield, CT

Gentlemen:

1. The undersigned, having familiarized () himself () themselves with the local conditions affecting the cost of the work, and with the Specifications (including Invitation for Bids, this Bid, the form of Bid Bond, the form of Non-Collusive Affidavit, the form of Contract, the Statement of Bidder's Construction Experience, the form of Performance and Payment Bond or Bonds, the General Conditions, the Special Conditions and the general scope of work, the Technical Specifications and Drawings) and addenda, if any therefore, as prepared by Capital Studio Architects, LLC, and on file in the office of the Housing Authority of the Town of Enfield, 1 Pearson Way, Enfield, CT 06082, hereby proposes to perform the Window, Siding and Roof Replacement at Green Valley & Laurel Park, all in accordance therewith, for the sum of \$_____. The work will be completed in 120 calendar days from date of Notice to Proceed to substantial completion, exclusive of days work may be stopped due to winter conditions.
2. In submitting this bid, it is understood that the right is reserved by the Housing Authority of the Town of Enfield, to reject any and all bids and to waive technical defects and any formality in the bids received when such waiver is in the best interest of the Housing Authority. If written notice of acceptance of this bid is mailed, telegraphed or delivered to the undersigned within sixty (60) days after the opening thereof, or at any time thereafter before this bid is withdrawn, the undersigned agrees to execute and deliver a contract in the prescribed form and furnish the required bond within ten (10) days after the Contract is presented to him for signature.
3. Security in the sum of \$_____ Dollars in the form of_____ is submitted herewith in accordance with the specifications.
4. Attached hereto is an affidavit in proof that the undersigned has not entered into any collusion with any person in respect to this proposal or any other proposal or the submitting of proposals for the Contract for which this proposal is submitted.
5. The bidder represents that he () has, () has not, participated in a previous contract or subcontract subject to the equal opportunity clause prescribed by Executive Orders 10925, 11114, or 11246 or the Secretary of Labor; that he () has, () has not, filled all required compliance reports, and that representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained prior to subcontract awards. (The above representation need not be submitted in connection with contracts or subcontracts which are exempt for the clause).

6. Each bid must contain the following items:

- a – Form of Bid (all pages) with required signatures.
- b – Bid Bond
- c – Performance and Payment Bond
- d – Statement of Bidder's Construction Experience
- e – Certificate of Insurance.
- f – RRP Certification Form (If applicable)

All required forms must be filled out completely. The Owner may consider as non-responsive any bid that is incomplete or not submitted in the prescribed format. Not providing a schedule that clearly demonstrates how the contractor intends to perform the work will be grounds in forfeiting their bid bond.

7. The Contract award will be made to the lowest responsible bidder as outlined above. The Housing Authority of the Town of Enfield further reserves the right to increase the award, in accordance with the unit prices listed below depending on the availability of funds. The Owner reserves the right to reject any and all bids, and to waive any informality in the bids when such action is deemed to be in the best interest of the Owner.

8. UNIT PRICES

1. Provide unit cost to replace deteriorated, damaged, or rotted exterior grade 1/2", 5/8", or 3/4" plywood sheathing
 - a. 1/2" \$_____sf.
 - b. 5/8" \$_____sf.
 - c. 3/4" \$_____sf.
2. Provide unit cost to replace damaged gypsum wallboard.
_____s.f.
3. Provide unit cost to furnish and install R-15 Kraft-faced Batt Insulation in exterior walls.
\$_____s.f.
4. Provide unit cost to replace deteriorated, damaged, or rotted 2 x 4 exterior wall stud.
\$_____per stud.
5. Provide unit cost to replace deteriorated, damaged, or rotted porch post with new pressure treated 4x4 post. \$_____per post.
6. Provide unit cost to replace deteriorated, damaged, or rotted fascia board with new primed and painted fascia board.
\$_____l.f.
7. Provide unit cost to replace existing front door, complete. \$_____per opening.

8. Provide unit cost to replace existing side/rear door, complete. \$_____per opening.

9. Bidder hereby agrees to commence work under this contract on or before a date to be specified in a written "Notice to Proceed" from the Owner and to fully complete the project within 120 consecutive calendar days therefore as stipulated in the specifications. Bidder further agrees to pay as liquidated damages, the sum \$350.00 for each consecutive calendar day thereafter.

10. The following list of Subcontractor's is proposed, by the Contractor, including individual trades, and if minority. This list must be approved by Housing Authority of the Town of Enfield. If a change is desired, this must be acceptable to all parties.

13. Certification of Non-segregated Facilities. By signing this bid, the bidder certifies that he does not maintain or provide for his employees, any segregated facilities at any of his establishments, at any location, under his control, where segregated facilities are maintained. He further certifies that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The bidder agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract. As used in this certification, the term "segregated facilities" means any waiting room work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis or race, color, religion or national origin, because of habit, local custom or otherwise. He further agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding \$10,000.00 which are not exempt from the provisions of the Equal Opportunity clause, that he will forward a notice to his proposed subcontractors as provided in the Instruction to Bidders.

14. The contractor shall procure, and maintain in effect for the duration of this agreement, insurance coverages as identified in the "AIA General Conditions."

The selected Contractor must, prior to contract signing, supply the Municipality and the Owner with the original certificates of insurance for workers compensation insurance and general liability insurance with a broad form contractual endorsement with the minimum limits identified in the Invitation For Bids. The Contractor shall indemnify and save harmless the Owner and the Municipality under these policies, which shall list the Enfield Housing Authority, its agents and the Owner as additional insured.

A. Workers Compensation and Employer's Liability:

In accordance with the State of Connecticut's Workers' Compensation Act, insuring in accordance with statutory requirements in order to meet obligations to employees in the event of injury or death sustained in the course of employment.

Cancellation Notice - Insurers must give no less than 30 days written notice in the event of either cancellation or non-renewal to the Municipality. Notice is to be to the attention of the Enfield Housing Authority.

All policies are to be evidenced by Certificates of Insurance properly authorized by the insurer or their representative and must reflect all coverages. Certificates must be delivered to the Owner prior to any work or activity under this agreement.

15. A Bid Security of five percent (5%) of the bid shall be filed with the Bid. and may be either a certified/cashier's check or a Bid Bond made payable to the Housing Authority of the Town of Enfield, Sureties must be listed on the most recent IRS Circulation 570. Successful Bidder shall furnish Performance and Labor and Material Payment Bonds, each for 100 percent (100%) of the Contract Sum following notice of award. A certificate of insurance with the Housing Authority of the Town of Enfield, and Representatives named as additional insured, must be submitted with the bid package.

16. Addendum Receipt: The receipt of the Addendum to Drawings and Specifications is hereby acknowledged.

Addendum No. _____	Dated _____
Addendum No. _____	Dated _____
Addendum No. _____	Dated _____

Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

Date _____

Official Address

By _____

Title _____

END OF FORM OF BID

BID BOND

KNOW ALL MEN BY THESE PRESENTS. That we the undersigned,

_____ as Principal,
(Name of Principal)

_____ as Surety,
(Name of Surety)

are held and firmly bound unto the Enfield Housing Authority, in the penal sum of (5% of Bid Amount)

\$ _____

_____ Dollars.

Lawful money of the United States, for the payment of which sum well and truly made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these present.

THE CONDITION OF THIS OBLIGATION IS SUCH, THAT whereas the principal has submitted the accompanying bid, dated _____, 20_____

for _____

NOW THEREFORE, if the Principal shall not withdraw said bid within one hundred eighty (180) days after the said opening and shall within ten (10) days after the prescribed forms are presented to him for signature, enter into a written contract with the Enfield Housing Authority in accordance with the bid as accepted, and give bond with good and sufficient surety or sureties, as may be required, for the faithful performance and proper fulfillment of such contract; or in the event of the withdrawal of said bid within the period specified, or the failure to enter into such contract and give such bond within the time specified, if the Principal shall pay the Enfield Housing Authority the difference between the amount specified in said bid and the amount for which the Enfield Housing Authority may procure the required work or supplies or both, if the latter amount be in excess of the former, then the above obligation shall be void and no effect, otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above-bounded parties have executed this instrument under their several seals this _____ day of _____ 20_____.

The name and corporate seal of each corporate party being hereto affixed and these present duly signed by its undersigned representative, pursuant to authority of its governing body.

IN PRESENCE OF:

_____	_____ (Seal) (Individual Principal)
_____	_____ (Business Address)
_____	_____ (Seal) (Individual principal)
_____	_____ (Business Address)

BID BOND (cont'd)

ATTEST:

(Corporate Principal)

(Business Address)

By _____

Affix
Corporate
Seal

ATTEST:

(Corporate Surety)

(Business Address)

By _____

Affix
Corporate
Seal

Power of Attorney for person signing for surety must be attached to bond.

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____ Certify that I am the _____

Secretary of the corporation named

as principal in the within bond; that _____

who signed the said bond on behalf of the Principal was then _____

of said corporation; that I know his signature, and his signature therefore is genuine; and that said bond was duly signed, sealed, and attested, to for and in behalf of said corporation by authority of its governing body.

(Corporate Seal)

PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENT, That we _____
_____(contractor)
_____ of _____ as

Principal, _____ of _____ as

Surety, are held firmly bound unto the Enfield Housing Authority in the penal sum of (100% of Contract Amount)

\$ _____ Dollars and to such persons, firms or corporations who may furnish materials for or perform labor on the work, construction or improvements contemplated in the contract herein after mentioned for the payment whereof the Principal and the Surety or Sureties bind, their heirs, executors, administrators, successors and assigns, jointly and severally firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION IS SUCH THAT WHEREAS the said _____
_____ has entered into a contract with the
_____(contractor)

Enfield Housing Authority dated _____ of which the Surety or Sureties acknowledged the receipt thereof.

NOW THEREFORE, if the said _____ shall well and
_____(contractor)

truly keep and faithfully perform the contract on its part to be kept and performed (including guarantee and maintenance provision therein), and shall pay for all materials, and for all labor performed, and for the rental or hire of vehicles, machinery and equipment, tools and appliances used or employed in the execution of said contract, and shall fully indemnify and save harmless said Enfield Housing Authority as therein stipulated, then this obligation shall be of no effect, otherwise it shall remain in full force and effect.

AND THE SURETY, for value received, hereby stipulates and agrees that no change, extension of time, alteration or additions to the term of the contract or to the work to be performed thereunder, or the specifications accompanying the same, shall in any wise affect its obligation on this bond and it does hereby waive notice of any change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

This bond is made for the use and benefit of all persons, firms and corporations who may furnish materials or perform any labor for or on account of said work, construction or improvements, or rent or hire out any vehicles, machinery and equipment, tools and appliances used or employed in the execution of said contract, and they and each of them are hereby made obligee hereunder the same as if their own respective names where

PERFORMANCE AND PAYMENT BOND (cont'd)

written herein as such and they and/or each of them may proceed or use hereon in their own names for their own use and benefit.

IN WITNESS WHEREOF, the parties hereto have executed this bond in triplicate on this _____ day of _____.

ATTEST:

(name of contractor) (Seal)

CORPORATE SEAL

By _____

ATTEST:

(name of Surety) (Seal)

By _____

Sealed and delivered in the presence of:

Power of Attorney of person executing Bond for Surety Company must be attached.

The rate of premium on this bond is \$ _____ per thousand. The total amount of premium charges is \$ _____.

I, _____, certify that I am the Secretary of the corporation named as principal in the within bond; that _____, who signed the said bond on behalf of the principal, was then _____ of said corporation; that I know his signature thereto is genuine, and that said bond was duly signed, sealed, and attested for and in behalf of corporation by authority of its governing body.

(Secretary) (Corporate Seal)

NOTICE TO PROCEED

_____	Contract No. _____
(Name of Contract)	
_____	Date: _____
(Street Address)	
_____	Project No. _____
(City, State & Zip Code)	
	Location _____

Gentlemen:

Pursuant to the terms of your contract, dated _____, 20__ for Window & Siding Replacement at Green Valley and Laurel Park, Enfield, Connecticut, you are hereby notified to commence work thereunder at the start of the business on _____, 20__. The time for completion set forth in the contract is _____ calendar days, including the starting day, which establishes _____, 20__ as the completion date.

Please note carefully and fulfill the requirements of the General Conditions relative to the submittal and approval of Workmen's Compensation and Manufacturers' and Contractors' Public Liability Insurance.

You are informed that Ms. Shari Riddick has been appointed Contracting Officer and is duly authorized to administer your contract for, and in the name of, the Housing Authority of the Town of Enfield, Connecticut.

Under Separate cover, there is being forwarded to you one executed set of contract documents, consisting of the Contract, Performance and Payment Bond(s), Specifications and Drawings.

You are instructed to submit for our approval a breakdown of your contract price on the enclosed forms without delay.

Please acknowledge receipt of the Notice to Proceed by signing and dating, and return all carbon copies promptly to this office.

Enclosure:

Very truly yours,
The Housing Authority of the
Town of Enfield, Connecticut

Accepted:

By: _____

(Name of Contractor)

Title: _____

Title: _____

Date: _____

Date: _____

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STATEMENT OF BIDDER'S
CONSTRUCTION EXPERIENCE

All questions 1 through 13 must be answered and the data given must be clear and comprehensive. This statement **Must** be notarized. If necessary, add separate sheets for items marked (*).

1. Name of Bidder _____
2. Permanent main office address _____
3. When organized _____
4. When incorporated _____
5. How many years have you been engaged in the contracting business under your present firm name _____
6. *Contracts on hand: (Schedule these, showing gross amount of each contract and the approximate anticipated dates of completion.) _____

7. *General character of work performed by your company _____

8. Have you ever failed to complete any work awarded to you. If so where and why? _____

9. Have you ever defaulted on a contract _____
10. * List the important structures recently erected by your company, stating approximate cost for each, and the month and year completed. _____

11. * List your major equipment available for this contract. _____

STATEMENT OF BIDDER'S
CONSTRUCTION EXPERIENCE

12. * Experience in construction work similar in importance to
this project _____

13. Will you, upon request, fill out a detailed financial statement and furnish any other information
that may be required by The Enfield Housing Authority _____.

The undersigned hereby authorizes and requests any person, firm, or corporation to furnish any
information requested by The Enfield Housing Authority, Enfield, Connecticut in verification of
the recitals comprising this Statement of Bidder's Construction Experience.

Dated at _____ this _____ day of _____ 201__

Name of Bidder _____

By _____

Title _____

State of _____ (ss)

County of _____ (ss)

_____ being duly sworn

deposes and says that he is _____ of

(Name of Organization)

and that the answers to the foregoing questions and all statements therein contained are true and
correct.

Sworn to before me this _____ day of _____ 201__

(Notary Public)

My commission expires _____

RRP Certification Form
For Pre-1978 Projects for the
Enfield Housing Authority

Project Name: Window and Siding Replacement at
Green Valley and Laurel Park

What is RRP?

RRP is the Federal EPA's Renovation, Repair, and Paint Program. This law requires contractors that disturb painted surfaces in homes, child care facilities, and schools built before 1978 to be certified by EPA and follow specific work practices to prevent lead contamination. Individuals employed by the firm must be trained and certified. The contractor must give property owners and residents a copy of "Renovate Right", a pamphlet describing the lead-poisoning risks that may come from renovation activity in homes built before 1978. The following information is necessary to assist EPA Region 1 and the State of CT in its efforts to eliminate lead poisoning in children and adults. This checklist is not applicable for Lead Abatement or homeowner "Do-It-Yourself" projects. The contractor must provide the following information prior to obtaining a local construction or renovation permit:

Business name: _____

Business address: _____

CT License #: _____

EPA RRP Lead-Safe Certified Firm#: _____

EPA RRP Renovator training certificate #(s): _____

By signing below, I state that I will provide a copy of the EPA *Renovate Right*, lead-hazard pamphlet to the owner(s) and residents of the property before the work begins. I further agree to follow all lead-safe work practices to protect residents and workers from lead exposure.

Contractor name (print): _____

Contractor's signature: _____

Date: _____

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SECTION 00900 - SPECIAL CONDITIONS

1. SPECIAL CONDITIONS DEFINITIONS

A. Where the Specifications refer to Owner, this shall be construed to mean the Enfield Housing Authority. Its designated agent shall be referred to as the "Owner's Designated Agent" in these specifications.

2. BIDDING REQUIREMENTS

A. The project will be open for inspection, dates to be designated by the Enfield Housing Authority

B. Owner's Designated Agent shall contact the Owner regarding site visit questions. Contact should be by the telephone to:

Mr. William Dufour
Enfield Housing Authority
1 Pearson Way
Enfield, CT 06082
Phone: 860-745-7493

C. Architectural questions on Specifications and Drawings should be addressed to Capital Studio Architects or Owner's Representative (to be determined):

Mr. David Holmes
Capital Studio Architects
1379 Main Street
East Hartford, CT 06108
Phone: 860-289-3262
Email: dholmes@capitalstudio.net

D. FH&EO questions should be addressed to:

Mr. William Dufour
Enfield Housing Authority
1 Pearson Way
Enfield, CT 06082
Phone: 860-745-7493

3. SALES TAX

A. The Owner is exempt from Connecticut Sales Tax.

4. INSURANCE

A. No insurance shall be terminated by the Contractor without thirty (30) days notice to the Owner.

B. All insurance companies shall be licensed and registered in the State of Connecticut.

C. All insurance coverages and limits shall be in conformance with the standards set by the DECD Supplementary Conditions and the Enfield Housing Authority.

5. INTERPRETATIONS OF DRAWINGS

A. Any questions or disagreements arising as to the true intent of this specification or the drawings, or the kind and quality of work required thereby, shall be decided by the Architect, whose interpretations thereof shall be final, conclusive, and binding on all parties.

B. In the case of disagreement between drawings and specifications, or within either document itself, the better quality, greater quantity, or more costly work shall be included in the contract price, and the matter referred to the Owner's Representative's attention for decision and/or adjustment.

C. If the disagreement between the drawings and specification cannot be resolved through either A. or B. above, the specifications shall take precedence over the drawings.

6. VISITING THE SITE

A. Before submitting his final proposal, the Contractor shall examine the sites of the proposed work to determine the existing conditions that may affect his work, as he will be held responsible for any assumptions made by him in regard thereto. Time for this examination must have prior approval of the Owner.

7. CONTRACTOR'S PROPOSAL

A. The Contractor's proposal and bid must cover all items on the drawings and in the specifications exactly as drawn and specified.

C. Proposals and bids that do not conform to drawings and specifications will not be accepted.

8. SUBSTITUTIONS

A. Substitutions of equipment or materials other than those indicated on the drawings or in the specifications, shall be confined to only those manufacturers listed under the section on approved manufacturers, or to those otherwise indicated, and may be made only upon written approval from the Owner/Owner's Representative.

9. SUB-CONTRACTORS

A. All sub-contractors shall be subject to approval of the Owner.

B. When requested by the Owner, the prospective contractors shall submit a list with names, addresses, and telephone numbers of similar type projects previously completed.

10. LAWS, ORDINANCES, PERMITS AND FEES

A. The Contractor shall give all necessary notices, obtain all permits and pay for governmental taxes, fees, and other costs in connection with his work; file all necessary plans, prepare all documents and obtain all necessary approvals of the governmental departments having jurisdiction; obtain all required Certificates of Inspection for his work and deliver same to the Owner before request for acceptance and final payment for the work. The Owner is exempt from paying Building Permit Fees to the Town of Enfield. The Contractor shall include for any and all State of Connecticut Department of Environmental Protection Permits in addition to all Local Permits.

11. APPROVALS

- A. The materials, workmanship, design and arrangement of all work installed under the contract shall be subject to the approval of the Owner. If material or equipment is installed before it is approved, the contractor shall be liable for the removal and replacement, at no extra charge to the owner, if, in the opinion of the Owner, the material or equipment does not meet the intent of the drawings and specifications.
- B. The words "approved equal" shall be understood to apply only to those items of equipment and material listed under the section of approved manufacturers, or as otherwise indicated on the drawings or in the specifications.
- C. Equipment and materials that do not conform to the specifications or the previous paragraph will not be approved.

12. NON-SEGREGATED FACILITIES

- A. By signing the bid, the bidder certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, or under his control, where segregated facilities are maintained. He certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The bidder agrees that a breach of this certification is a violation of the Equal Opportunity Clause in this Contract. As used in this certification, the term "segregated facilities" mean any waiting room, work areas, restrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom or otherwise. He further agrees that (except where he has obtained identical certification from proposed sub-contractors for specific time periods) he will obtain identical certification from proposed sub-contractors prior to the award of sub-contracts exceeding \$10,000.00, which are not exempt from the provisions of the Equal Opportunity Clause; that he will retain such certifications in his files; that he will forward a notice to his proposed sub-contractors as provided in the Instruction to Bidders.

13. JOB MEETINGS

- A. The Owner, Contractor, Owner's Representative and others concerned with the project whose presence is deemed necessary shall attend weekly job meetings for the purpose of discussing and expediting the prosecution of the work.
- B. The schedule for meetings will be established by the Owner's Representative.
- C. The proceedings of these meetings will be recorded by the Owner's Representative; the Contractor will be furnished a copy for his use and distribution as required.

14. DRAWINGS

A. Drawings are generally schematic and may differ to some degree from field conditions. Specifically, certain drawings may be opposite hand from actual conditions and/or requirements. All dimensions are \pm . The contractor shall ascertain for himself the actual field conditions and shall be fully responsible for the indicated, specified and required work as designated and/or implied.

15. SCHEDULE OF THE WORK

A. The development is tenant occupied. All work shall be carried out in such a manner so as to cause minimal interference with the use of the building by the tenants. The Contractor shall at all times maintain access to the building.

B. Other work in progress concurrently with work under this contract shall be affected by the performance of this contract. Conformance with this provision shall be the responsibility of this contractor.

C. The standard working hours shall be from 8:00 a.m., until 5:00 p.m. Monday through Friday. Any deviation from this must be approved in advance by the Owner.

D. The Contractor shall at all times, maintain the fire integrity of the structures and shall maintain, free and clear, all exit ways.

16. MATERIALS AND EQUIPMENT

A. New materials and equipment installed into existing work shall be compatible with the existing work.

B. The Contractor shall advise the Owner's Representative before ordering and/or installing any materials and equipment if he disputes those items and/or methods specified, otherwise he shall take full responsibility for their performance and suitability.

17. STORAGE OF MATERIALS

A. Storage areas for the Contractor's use are available onsite. Coordinate with the Owner the locations to be designated for said purpose.

B. Equipment and materials stored on site are the full responsibility of the Contractor.

18. TEMPORARY FACILITIES

A. The Contractor shall provide and maintain an adequate office at the project sites at his discretion. If provided, it shall be located as directed by the Owner. It shall be kept clean, have adequate light and ventilation.

B. The Contractor shall provide and maintain telephone service for his own use. No telephone service is available at the site.

19. TEMPORARY SERVICE

A. The Contractor shall be responsible for providing water and electrical power to the site for his/her own use. The Contractor may connect to water and power service available at the site with the consent of individual tenants.

-
- B. Fixtures, or other modifications, shall be the responsibility of the contractor.

20. SANITARY FACILITIES

- A. The Contractor shall provide temporary facilities.

21. DEMOLITION

- A. This work includes the furnishing of all labor, materials, equipment and services necessary for, and reasonable incidental to, completion of all Demolition, as required for the installation of the work, whether or not listed below.
- B. All materials not identified for salvage, shall be removed legally from the site immediately.
- C. The Owner will provide space for a dumpster(s) for use on this project.

22. SHOP DRAWINGS

- A. Prior to delivery of materials and equipment to the project site, submit five (5) copies of Shop Drawings of each item for approval by the Owner/Owner's Representative.
- B. Shop drawings shall consist of manufacturer's scale drawings, cuts or catalogs, including descriptive literature and complete characteristics of equipment showing dimensions, capacity, code compliance, motor and drive and testing, all as required for this project.
- C. The Owner/Owner's Representative may designate submittal of physical samples for approval on items where actual color, texture or other characteristics might not be adequately described by drawing or written material.

23. PROTECTION OF WORK AND PROPERTY

- A. The Contractor shall be responsible for the maintenance and protection of all equipment, materials and tools, supplied by him and stored or installed on the job site, from loss or damage of all causes, until final acceptance by the Owner.
- B. The Contractor shall be responsible for the protection of any finished work of other trades or existing buildings and tenant's property and damage or defacement by his operation and must remedy any such injury at his own expense.

24. ACCESSIBILITY

- A. The Contractor shall install all work so that all parts required and readily accessible for inspection, operation, maintenance and repair. Minor deviations from the drawings may be made to accomplish this, but changes of magnitude shall not be made without prior written approval from the Owner.

25. SCAFFOLDING, RIGGING, HOISTING

- A. The Contractor shall provide all scaffolding, rigging, hoisting and services necessary for erection and delivery into the premises for all equipment and materials furnished, and remove same from premises when no longer required.

26. GUARANTEE PERIOD

- A. A one (1) year guarantee period on all new materials and workmanship shall commence at date of acceptance by the Owner, or its' designated agent.

27. WARRANTIES

- A. All warranties for new materials shall commence at date of written acceptance by the Owner, or its' designated agent.

28. CLEAN UP

- A. Project shall be cleaned daily or as required to keep project area free from rubbish and debris. All debris shall be removed from the site and deposited legally off-site.
- B. Final clean-up shall include all debris, stains, and other defacement caused by the work.

29. LIQUIDATED DAMAGES

- A. In the case of failure on the part of the Contractor to complete the work within the time fixed in the Contract, or any extension thereof, the Contractor shall pay to the Housing Authority of the Town of Enfield, as fixed, agreed and liquidated damages the sum of \$350.00 for each calendar day of delay.

30. CONTRACT PERIOD

- A. The contract period shall be one hundred twenty (120) calendar days from the date of the contract to substantial completion.

31. WAGE RATES

- A. Wage rates are applicable to this project. Please refer to the Wage Rates included in this Project Manual.

32. HAZARDOUS MATERIALS

- A. An environmental report will be made available to the successful bidder. If any materials are uncovered during the course of construction which are perceived to be hazardous material and are not identified in the report, or in the drawings and specifications, stop work and notify the owner.

33. EPA RENOVATION, REPAIR, AND PAINT PROGRAM

- A. Contractor and/or relevant Subcontractors working on this project must be trained and certified in the Environmental Protection Agency's "Renovation, Repair and Paint Program" and must comply with all work procedures required by the program. Refer to the Drawings for buildings identified as containing lead paint.

34. CHANGE ORDERS

- A. For all change orders, the General Contractor, for Work self-performed shall be allowed 10% for overhead, above the direct costs and 5% for profit, above the direct costs to be calculated on a 15% total above direct costs.
- B. For all change orders for sub-contracted Work, the sub-Contractor shall be allowed 10% for overhead, above the direct costs and 5% for profit, above the direct costs to be calculated on a 15% total above direct costs.
- C. For all change orders for sub-contracted Work, the General Contractor shall be allowed 5% for overhead and 2.5% for profit.

35. A. The Owner reserves the right to negotiate unit prices with the successful bidder.

36. SALVABLE MATERIALS

- A. Unit numbers.
- B. Mailboxes.

END OF SECTION

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THIS IS A PUBLIC WORKS PROJECT

Covered by the

PREVAILING WAGE LAW

CT General Statutes Section 31-53

**If you have QUESTIONS regarding your wages
CALL (860) 263-6790**

Section 31-55 of the CT State Statutes requires every contractor or subcontractor performing work for the state to post in a prominent place the prevailing wages as determined by the Labor Commissioner.

Sec. 31-53b. Worker training requirements for public works projects. Enforcement. Regulations. Exceptions. (a) Each contract for a public works project entered into on or after July 1, 2009, by the state or any of its agents, or by any political subdivision of the state or any of its agents, described in subsection (h) of section 31-53, shall contain a provision requiring that each contractor furnish proof with the weekly certified payroll form for the first week each employee begins work on such project that any person performing the work of a mechanic, laborer or worker pursuant to the classifications of labor under section 31-53 on such public works project, pursuant to such contract, has completed a course of at least ten hours in duration in construction safety and health approved by the federal Occupational Safety and Health Administration or, has completed a new miner training program approved by the Federal Mine Safety and Health Administration in accordance with 30 CFR 46 or, in the case of telecommunications employees, has completed at least ten hours of training in accordance with 29 CFR 1910.268, and, on or after July 1, 2012, that any plumber or electrician subject to the continuing education requirements of section 20-334d, who has completed a course of at least ten hours in duration in construction safety and health approved by the federal Occupational Safety and Health Administration five or more years prior to the date such electrician or plumber begins work on such public works project, has completed a supplemental refresher training course of at least four hours in duration in construction safety and health taught by a federal Occupational Safety and Health Administration authorized trainer.

(b) Any person required to complete a course or program under subsection (a) of this section who has not completed the course or program shall be subject to removal from the worksite if the person does not provide documentation of having completed such course or program by the fifteenth day after the date the person is found to be in noncompliance. The Labor Commissioner or said commissioner's designee shall enforce this section.

(c) Not later than January 1, 2012, the Labor Commissioner shall adopt regulations, in accordance with the provisions of chapter 54, to implement the provisions of subsections (a) and (b) of this section. Such regulations shall require that the ten-hour construction safety and health courses required under subsection (a) of this section be conducted in accordance with federal Occupational Safety and Health Administration Training Institute standards, or, in the case of a supplemental refresher training course, shall include, but not be limited to, an update of revised Occupational Safety and Health Administration standards and a review of required construction hazards training, or in accordance with Federal Mine Safety and Health Administration Standards or in accordance with 29 CFR 1910.268, as appropriate. The Labor Commissioner shall accept as sufficient proof of compliance with the provisions of subsection (a) or (b) of this section a student course completion card issued by the federal Occupational Safety and Health Administration Training Institute, or such other proof of compliance said commissioner deems appropriate, dated no earlier than five years before the commencement date of such public works project or, in the case of supplemental refresher training, a student course completion card issued by said Occupational Safety and Health Administration authorized trainer dated not earlier than five years prior to the date such electrician or plumber begins work on such public works project.

(d) This section shall not apply to employees of public service companies, as defined in section 16-1, or drivers of commercial motor vehicles driving the vehicle on the public works project and delivering or picking up cargo from public works projects provided they perform no labor relating to the project other than the loading and unloading of their cargo.

(P.A. 06-175, S. 1; P.A. 08-83, S. 1; P.A. 10-47, S. 2; P.A. 11-63, S. 1.)

History: P.A. 08-83 amended Subsec. (a) by making provisions applicable to public works project contracts entered into on or after July 1, 2009, replacing provision re total cost of work with reference to Sec. 31-53(g), requiring proof in certified payroll form that new mechanic, laborer or worker has completed a 10-hour or more construction safety course and adding provision re new miner training program, amended Subsec. (b) by substituting "person" for "employee" and adding "or program", amended Subsec. (c) by adding "or in accordance with Federal Mine Safety and Health Administration Standards" and setting new deadline of

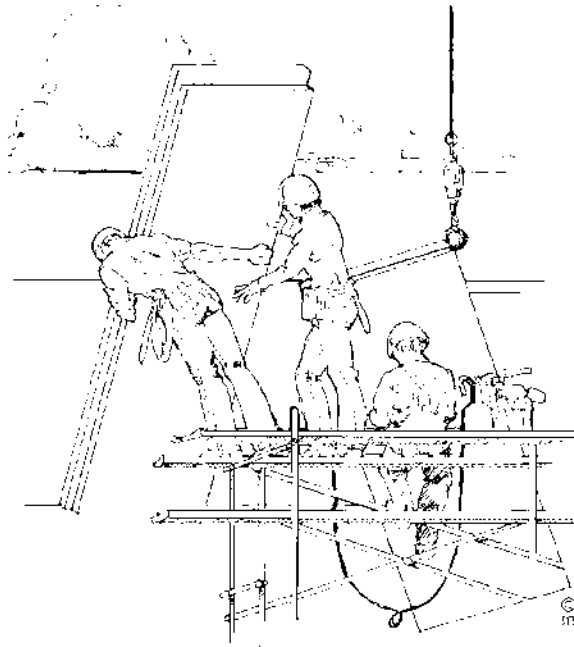
~NOTICE~

TO ALL CONTRACTING AGENCIES

Please be advised that Connecticut General Statutes Section 31-53, requires the contracting agency to certify to the Department of Labor, the total dollar amount of work to be done in connection with such public works project, regardless of whether such project consists of one or more contracts.

Please find the attached “Contracting Agency Certification Form” to be completed and returned to the Department of Labor, Wage and Workplace Standards Division, Public Contract Compliance Unit.

 Inquiries can be directed to (860) 263-6790.



CONNECTICUT DEPARTMENT OF LABOR
WAGE AND WORKPLACE STANDARDS DIVISION
CONTRACT COMPLIANCE UNIT

CONTRACTING AGENCY CERTIFICATION FORM

I, _____, acting in my official capacity as _____,
authorized representative title

for _____, located at _____,
contracting agency address

do hereby certify that the total dollar amount of work to be done in connection with

_____, located at _____,
project name and number address

shall be \$_____, which includes all work, regardless of whether such project
consists of one or more contracts.

CONTRACTOR INFORMATION

Name: _____

Address: _____

Authorized Representative: _____

Approximate Starting Date: _____

Approximate Completion Date: _____

Signature

Date

Return To: Connecticut Department of Labor
Wage & Workplace Standards Division
Contract Compliance Unit
200 Folly Brook Blvd.
Wethersfield, CT 06109

Date Issued: _____

**CONNECTICUT DEPARTMENT OF LABOR
WAGE AND WORKPLACE STANDARDS DIVISION
CONTRACTORS WAGE CERTIFICATION FORM**

I, _____ of _____
Officer, Owner, Authorized Rep. Company Name

do hereby certify that the _____
Company Name

Street

City

and all of its subcontractors will pay all workers on the

Project Name and Number

Street and City

the wages as listed in the schedule of prevailing rates required for such project (a copy of which is attached hereto).

Signed

Subscribed and sworn to before me this _____ day of _____, _____.

Notary Public

Return to:

Connecticut Department of Labor
Wage & Workplace Standards Division
200 Folly Brook Blvd.
Wethersfield, CT 06109

Rate Schedule Issued (Date): _____

CONNECTICUT DEPARTMENT OF LABOR

Wage & Workplace Standards Division

WAGE PAYMENT LAWS

*The following represent a summary of selected laws; sections 31-69a through 31-76k –
For Review of full text consult Connecticut General Statutes*

Sec. 31-71a. Payment of Wages; Definitions. Whenever used in sections 31-71a to 31-71i; inclusive; (1) “Employer” includes any individual, partnership, association, joint stock company, trust, corporation, the administrator or executor of the estate of a deceased person, the conservator of the estate of an incompetent, or the receiver, trustee, successor or assignee of any of the same, employing any person; including the State and any political subdivision thereof; (2) “Employee” includes any person suffered or permitted to work by an employer; (3) “Wages” means compensation for labor or services rendered by an employee, whether the amount is determined on a time, task, piece, commission or other basis of calculation; (4) “Commissioner” means the labor commissioner.

Sec. 31-71b. Payment of wages. Electronic direct deposit of wages for state employees. Exemptions. (a)(1) Except as provided in subdivision (2) of this subsection, each employer, or the agent or representative of an employer, shall pay weekly, or once every two weeks, all wages, salary or other compensation due each employee on a regular pay day, designated in advance by the employer using one or more of the following methods: (A) Cash; (B) by negotiable checks; (C) upon an employee's written or electronic request, by direct deposit; or (D) by payroll card, provided the requirements of section 31-71k are satisfied.(2) Unless otherwise requested by the recipient, the Comptroller shall, as soon as is practicable, pay all wages due each state employee, as defined in section 5-196, by electronic direct deposit to such employee's account in any bank, Connecticut credit union or federal credit union that has agreed with the Comptroller to accept such wage deposits.(b) The end of the pay period for which payment is made on a regular pay day shall be not more than eight days before such regular pay day, provided, if such regular pay day falls on a nonwork day, payment shall be made on the preceding work day.(c) This section shall not be construed to (1) prohibit a local or regional board of education or an entity called a state-aided institution pursuant to section 5-175 and a recognized or certified exclusive bargaining representative of its certified or noncertified employees from including within their collective bargaining agreement a schedule for the payment of wages to certified employees or noncertified employees that differs from the requirements of subsections (a) and (b) of this section, or (2) prohibit a private or parochial school from entering into a written agreement with its certified or noncertified employees for the payment of wages to such employees that differs from the requirements of subsections (a) and (b) of this section.(d) Any agreement entered into pursuant to subdivision (2) of subsection (c) of this section shall be null and void if such private or parochial school ceases to operate prior to completing payment of all wages due to its certified or noncertified employees and such private or parochial school shall be liable for the payment of all wages due to its certified or noncertified employees.(e) Nothing in this section shall be construed to apply to employees swapping workdays or shifts as permitted under a collective bargaining agreement.

Sec. 31-71c. Payment of wages on termination of employment. (a) Whenever an employee voluntarily terminates his employment, the employer shall pay the employee's wages in full not later than the next regular pay day, as designated under section 31-71b, either through the regular payment channels or by mail. (b) Whenever an employer discharges an Employee, the employer shall pay the employee's wages in full no later than the business day next succeeding the date of such discharge. (c) When work of any employee is suspended as a result of a labor dispute, or when an employee for any reason is laid off, the employer shall pay in full to such employee the wages earned by him not later than the next regular pay day, as designated under section 31-71b.

Sec. 31-71d. Payment where wages disputed. (a) In case of a dispute over the amount of wages, the employer shall pay, without condition and within the time set by sections 31-71a to 31-71i, inclusive, all wages, or parts thereof, conceded by him to be due, and the employee shall have all remedies provided by law, including those under said sections as to recovery of any balance claimed. (b) The acceptance by an employee of a payment under this section shall not constitute a release as to the balance of his claim and any release required by an employer as a condition to payment shall be void.

Sec. 31-71e. Withholding of part of wages. No employer may withhold or divert any portion of an employee's wages unless (1) the employer is required or empowered to do so by state or federal law, or (2) the employer has written authorization from the employee for deductions on a form approved by the commissioner, or (3) the deductions are authorized by the employee, in writing, for medical, surgical or hospital care or service, without financial benefit to the employer and recorded in the employer's wage record book, or (4) the deductions are for contributions attributable to automatic enrollment, as defined in section 31-71j, in a retirement plan described in Section 401(k), 403(b), 408, 408A or 457 of the Internal Revenue Code of 1986, or any subsequent corresponding internal revenue code of the United States, as from time to time amended, established by the employer, or in the Connecticut Retirement Security Exchange established pursuant to section 31-418, or (5) the employer is required under the law of another state to withhold income tax of such other state with respect to (A) employees performing services of the employer in such other state, or (B) employees residing in such other state.

Sec. 31-71f. Employer to furnish employee certain information. Each employer shall: (1) Advise his employees in writing, at the time of hiring, of the rate of remuneration, hours of employment and wage payment schedules, and (2) make available to his employees, either in writing or through a posted notice maintained in a place accessible to his employees, any employment practices and policies or change therein with regard to wages, vacation pay, sick leave, health and welfare benefits and comparable matters.

Sec. 31-71g. Penalty. Any employer or any officer or agent of an employer or any other person authorized by an employer to pay wages who violates any provision of this part: (1) Shall be guilty of a class D felony, except that such employer, officer or agent shall be fined not less than two thousand nor more than five thousand dollars for each offense if the total amount of all unpaid wages owed to an employee is more than two thousand dollars; (2) may be fined not less than one thousand nor more than two thousand dollars or imprisoned not more than one year, or both, for each offense if the total amount of all unpaid wages owed to an employee is more than one thousand dollars but not more than two thousand dollars; (3) may be fined not less than five hundred nor more than one thousand dollars or imprisoned not more than six months, or both, for each offense if the total amount of all unpaid wages owed to an employee is more than five hundred but not more than one thousand dollars; or (4) may be fined not less than two hundred nor more than five hundred dollars or imprisoned not more than three months, or both, for each offense if the total amount of all unpaid wages owed to an employee is five hundred dollars or less.

Sec. 31-71h. Regulations. The commissioner is authorized to issue regulations for the establishment of procedures for carrying out the provisions of sections 31-71a to 31-71i, inclusive.

Sec. 31-71i. Waiver of payment schedule requirement. The commissioner may, upon application, waive the provisions of section 31-71b with respect to any particular week or weeks, and may also, upon application, permit any employer, subject to the provisions of this section, to establish regular pay periods less frequently than once every two weeks, provided each employee affected shall be paid in full at least once in each calendar month on a regularly established schedule.

Sec. 31-71k. Payment of wages by payroll cards. Study of payroll card usage. Regulations. (a) As used in this section: (1) "Direct deposit" means the electronic payment of an employee's wages, salary or other compensation that is deposited into such employee's account in any bank, Connecticut credit union or federal credit union that has agreed with the employer to accept such wages, salary or other compensation; (2) "Payroll card" means a stored value card or other device used by an employee to access wages from a payroll card account and that is redeemable at the employee's election at multiple unaffiliated merchants or service providers, bank branches or automated teller machines. Payroll card does not mean a gift certificate, as defined in section 3-56a; and (3) "Payroll card account" means an account in any bank, Connecticut credit union or federal credit union that is directly or indirectly established through an employer to which transfers of the employee's wages, salary or other compensation are made and accessed through the use of a payroll card and that is subject to the requirements of Regulation E, 12 CFR Part 1005, as from time to time amended. (b) An employer may offer the use of payroll cards to deliver wages, salary or other compensation to employees, provided: (1) Each employee has the option of receiving wages, salary or other compensation by direct deposit and by negotiable check; and (2) The employee voluntarily and expressly authorizes, in writing or electronically, the payment of wages, salary or other compensation by means of a payroll card account without any intimidation, coercion or fear of discharge or reprisal from the employer for the employee's refusal to accept such payment of wages, salary or other compensation by means of a payroll card account. No employer shall make the payment of wages, salary or other compensation by means of a payroll card account a condition of employment or a condition for the receipt of any benefit or other form of remuneration for any employee. (c) Prior to an employee electing to receive wages, salary or other compensation by means of a payroll card account, each employer using payroll card accounts to deliver wages, salary or other compensation to an employee shall provide such employee with clear and conspicuous notice, in writing, and in the language the employer normally uses to communicate employment-related policies to his or her employees, of the following: (1) That payment of wages, salary or other compensation by means of a payroll card account is voluntary and the employee may instead choose to receive wages, salary or other compensation by either direct deposit or by negotiable check; (2) The terms and conditions relating to the use of the payroll card, including an itemized list of fees that may be assessed by the card issuer and their amounts; (3) The methods available to employees both for accessing their full wages, salary or other compensation in lawful money of the United States without any transaction fee to the employee for such access and for avoiding or minimizing fees for use of the payroll card, including, but not limited to, a clear and conspicuous notice describing how to access wages, salary or other compensation without cost at automated teller machines, depository financial institutions or other convenient locations; (4) The methods available to employees for checking their balances in the payroll card account without cost; and (5) A statement indicating that third parties may assess additional fees. (d) Each pay period, but not more frequently than each week, an employee with a payroll card shall be allowed to make at least three withdrawals from the payroll card account at no cost to the employee, one of which permits withdrawal of the full amount of the employee's net wages, salary or other compensation for the pay period at a depository financial institution or other convenient location. (e) None of the employer's costs associated with paying wages, salary or other compensation using a payroll card or establishing the payroll card account shall be deducted from or charged against the wages, salary or other compensation delivered to the employee. (f) (1) Neither the employer nor the payroll card issuer shall assess a fee to the employee for any of the following, regardless of how such fee is labeled: (A) Issuing the initial payroll card; (B) transferring wages, salary or other compensation from the employer to the payroll card account; (C) maintaining a payroll card account; (D) providing one replacement card per calendar year upon the employee's request; (E) closing the payroll card account; (F) maintaining a low balance; (G) inactivity or dormancy of the payroll card account for the first twelve months of inactivity or dormancy; or (H) point-of-sale transactions. (2) A payroll card may bear an expiration date, provided (A) the funds in the payroll card account do not expire; and (B) prior to the expiration date, the employee is provided with a replacement card, without charge, during the period when wages, salary or other compensation are applied to the payroll card account by the employer and for sixty days after the last transfer of wages, salary or other compensation is applied to the payroll card account by the employer. (3) The payroll card account may escheat to the state pursuant to the provisions of section 3-57a. (g) Each employer shall provide the employee a means of checking his or her payroll card account

balance through an automated telephone system, automated teller machine or electronically without cost to the employee twenty-four hours per day and seven days per week.(h) Neither the payroll card nor the payroll card account shall be linked to any form of credit and, to the extent technologically feasible, the payroll card account shall not allow for overdrafts. No fees or interest may be imposed upon the employee for an overdraft or the first two declined transactions of each calendar month.(i) The employer shall furnish the employee with a statement of deductions made from his or her wages, salary or other compensation for each pay period in accordance with section 31-13a.(j) Each employee with a payroll card shall be permitted, on timely notice to the employer and without cost or fear of reprisal or discrimination or the assessment of any penalty, to receive his or her wages, salary or other compensation by direct deposit into a personal account at any bank, Connecticut credit union or federal credit union that has agreed to accept such deposits or by negotiable check. The employer shall begin payment by direct deposit as soon as practicable but not later than the first pay day after fourteen days from receiving both the employee's request and the account information necessary to make the deposit, or by check as soon as practicable but not later than the first pay day after fourteen days from receiving the employee's request.(k) Consumer protections, including transaction histories and advanced notice of changes in terms and conditions, shall be provided to each employee with a payroll card in accordance with Regulation E, 12 CFR Part 1005, as from time to time amended. Notwithstanding the foregoing, employees shall be provided the option to receive, on a monthly basis, automatic written transaction histories at no cost to the employee for a term of at least twelve months or until such option is cancelled by the employee. Renewal of the option to receive written transaction histories at no cost to the employee may be required by the employer upon expiration of the initial twelve-month term, and each twelve-month term thereafter.(l) The payroll card shall be associated with an automated teller machine network that ensures the availability of a substantial number of in-network automated teller machines in the state.(m) Wages, salary or other compensation paid to an employee using a payroll card shall be deposited in a payroll card account that is insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration on a pass-through basis to the employee.(n) A payroll card account that is used to receive only employee wages, salary or other compensation shall be exempt from execution or attachment (1) by creditors of the employer, and (2) under section 52-367b.(o) All notices required by the provisions of this section shall be clear and conspicuous.(p) Nothing in this section shall be construed to preempt or override the terms of any collective bargaining agreement with respect to the methods by which an employer provides payment of wages, salary or other compensation to employees.(q) Nothing in this section shall be construed to restrict the fees that a payroll card issuer may charge the employer pursuant to a payroll card agreement between the payroll card issuer and the employer, provided those fees are not charged to or passed on to any employee.(r) The employer's obligations to the employee pursuant to the provisions of this section shall cease sixty days after the employer-employee relationship has ended.(s) The Labor Commissioner, within available appropriations, may conduct a study of payroll card usage and the actual incidence of associated fees. Not later than October 1, 2018, the commissioner shall determine whether such a study shall be conducted, and shall report such determination, or the status or results of such a study if such a study has already been initiated or conducted, in accordance with the provisions of section 11-4a, to the joint standing committee of the General Assembly having cognizance of matters relating to labor.(t) The Labor Commissioner may adopt regulations, in accordance with the provisions of chapter 54, to ensure compliance with this section.

Sec. 31-72. Civil action to collect wage claim, fringe benefit claim or arbitration award. When any employer fails to pay an employee wages in accordance with the provisions of sections 31-71a to 31-71i, inclusive, or fails to compensate an employee in accordance with section 31-76k or where an employee or a labor organization representing an employee institutes an action to enforce an arbitration award which requires an employer to make an employee whole or to make payments to an employee welfare fund, such employee or labor organization shall recover, in a civil action, (1) twice the full amount of such wages, with costs and such reasonable attorney's fees as may be allowed by the court, or (2) if the employer establishes that the employer had a good faith belief that the underpayment of wages was in compliance with law, the full amount of such wages or compensation, with costs and such reasonable attorney's fees as may be allowed by the court. Any agreement between an employee and his or her employer for payment of wages other than as specified in said sections shall be no defense to such action. The Labor Commissioner may collect the full amount of any such unpaid wages, payments due to an employee welfare fund or such arbitration award, as well as interest calculated in accordance with the provisions of section 31-265 from the date the wages or payment should have been received, had payment been made in a timely manner. In addition, the Labor Commissioner may bring any legal action necessary to recover twice the full amount of unpaid wages, payments due to an employee welfare fund or arbitration award, and the employer shall be required to pay the costs and such reasonable attorney's fees as may be allowed by the court. The commissioner shall distribute any wages, arbitration awards or payments due to an employee welfare fund collected pursuant to this section to the appropriate person.

Sec. 31-76k. Payment of fringe benefits upon termination of employment. If an employer policy or collective bargaining agreement provides for the payment of accrued fringe benefits upon termination, including but not limited to paid vacations, holidays, sick days and earned leave, and an employee is terminated without having received such accrued fringe benefits, such employee shall be compensated for such accrued fringe benefits exclusive of normal pension benefits in the form of wages in accordance with such agreement or policy but in no case less than the earned average rate for the accrual period pursuant to sections 31-71a to 31-71i, inclusive.

Sec. 31-69a. Additional penalty. (a) In addition to the penalties provided in this chapter and chapter 568, any employer, officer, agent or other person who violates any provision of this chapter, chapter 557 or subsection (g) of section 31-288 shall be liable to the Labor Department for a civil penalty of three hundred dollars for each violation of said chapters and for each violation of subsection (g) of section 31-288, except that (1) any person who violates (A) a stop work order issued pursuant to subsection (c) of section 31-76a shall be liable to the Labor Department for a civil penalty of one thousand dollars and each day of such violation shall constitute a separate offense, and (B) any provision of section 31-12, 31-13 or 31-14, subsection (a) of section 31-15 or section 31-18, 31-23 or 31-24 shall be liable to the Labor Department for a civil penalty of six hundred dollars for each violation of said sections, and (2) a violation of subsection (g) of section 31-288 shall constitute a separate offense for each day of such violation. (b) Any employer, officer, agent or other person who violates any provision of chapter 563a may be liable to the Labor Department for a civil penalty of not greater than five hundred dollars for the first violation of chapter 563a related to an individual employee or former employee, and for each subsequent violation of said chapter related to such individual employee or former employee, may be liable to the Labor Department for a civil penalty of not greater than one thousand dollars. In setting a civil penalty for any violation in a particular case, the Labor Commissioner shall consider all factors which the commissioner deems relevant, including, but not limited to, (1) the level of assessment necessary to insure immediate and continued compliance with the provisions of chapter 563a; (2) the character and degree of impact of the violation; and (3) any prior violations of such employer of chapter 563a. (c) The Attorney General, upon complaint of the Labor Commissioner, shall institute civil actions to recover the penalties provided for under subsections (a) and (b) of this section. Any amount recovered shall be deposited in the General Fund and credited to a separate non-lapsing appropriation to the Labor Department, for other current expenses, and may be used by the Labor Department to enforce the provisions of chapter 557, chapter 563a, this chapter and subsection (g) of section 31-288 and to implement the provisions of section 31-4.

Sec. 31-69b. Discharge, discipline, penalty or discrimination prohibited. Right of action. (a) An employer shall not discharge, discipline, penalize or in any manner discriminate against any employee because the employee has filed a claim or instituted or caused to be instituted any investigation or proceeding under part III of chapter 557 or this chapter, or has testified or is about to testify in any such proceeding or because of the exercise by such employee on behalf of himself or others of any right afforded by part III of chapter 557 or this chapter. (b) Any employee who believes that he has been discharged, disciplined, penalized or otherwise discriminated against by any person in violation of this section may file a complaint with the Labor Commissioner alleging violation of the provisions of subsection (a) of this section. Upon receipt of any such complaint, the commissioner shall hold a hearing. After the hearing, the commissioner shall send each party a written copy of his decision. The commissioner may award the employee all appropriate relief including rehiring or reinstatement to his previous job, payment of back wages and reestablishment of employee benefits to which he otherwise would have been eligible if he had not been discharged, disciplined, penalized or discriminated against. Any employee who prevails in such a complaint shall be awarded reasonable attorney's fees and costs. Any party aggrieved by the decision of the commissioner may appeal the decision to the Superior Court in accordance with the provisions of chapter 54.

Sec. 31-71h-1. Definitions

For the purposes of Sections 31-71h-1 through 31-71h-6, inclusive, of these Regulations, the following definitions apply:

(1) "Civil penalty" means a penalty of \$300.00 for each violation of part III of Chapter 557 or Chapter 558. (2) "Commissioner" means the Labor Commissioner, whose mailing address is Labor Department, 200 Folly Brook Boulevard, Wethersfield, Connecticut 06109, or his designee. (3) "Division" means the Wage and Workplace Standards Division which is responsible for enforcement of part III of Chapter 557 and Chapter 558 of the Connecticut General Statutes whose mailing address is Labor Department, 200 Folly Brook Boulevard, Wethersfield, Connecticut 06109. (4) "Employer" means any employer, officer, agent or any other person who may have violated part III of Chapter 557 or Chapter 558 of the Connecticut General Statutes. (5) "Violation" means a failure by an employer, officer, agent or other person to comply with any applicable provision of part III of Chapter 557 or Chapter 558.

Sec. 31-71h-2. Assessment of civil penalty

(a) In addition to and apart from any other penalties and/or remedies provided in part III of Chapter 557 and Chapter 558 of the Connecticut General Statutes, the Labor Commissioner shall assess a civil penalty of \$300.00 upon the following determination: (1) an employer has violated a statutory provision of part III of Chapter 557; or (2) an employer has violated a statutory provision of Chapter 558. (b) In determining the number of violations committed by an employer, the Commissioner shall assess a separate civil penalty for each individual employee adversely affected by the employer's violation. (c) In addition, the Commissioner may assess more than one civil penalty against an employer with respect to the same adversely affected employee if the employer has violated more than one statutory provision under part III of Chapter 557 or Chapter 558.

Sec. 31-71h-3. Notice of violation

(a) The employer shall be notified of a civil penalty assessment by the "Notice of Violation and Opportunity to Show Cause" which shall be sent to the employer along with the "Notice To Employer-Unpaid Wages Due" statement, if applicable. (b) In cases where there is a violation but no wages are due to any employees, the employer shall be notified of the civil penalty assessment by the "Notice of Violation and Opportunity to Show Cause" which shall be sent to the employer. (c) The "Notice of Violation and Opportunity to Show Cause" shall provide the following: (1) the total civil penalty assessed; (2) the right of the employer to request in writing a hearing to show cause why the civil penalty should not be assessed; (3) an advisement that no hearing shall be granted unless a written request for hearing is received by the Division within twenty-one (21) days from the date of mailing of the notice; and (4) the right of the employer to waive the right to request a hearing and to respond in writing to the notice within twenty-one (21) days of the date of mailing of the notice.

Sec. 31-71h-4. Request for hearing

Any employer who seeks to contest a civil penalty assessment shall file, within twenty-one (21) days from the date the "Notice of Violation and Opportunity to Show Cause" was issued, a written request for an opportunity to be heard which shall clearly state the reason(s) for such request, including facts to demonstrate that no violation has occurred.

Sec. 31-71h-5. Show cause hearing

(a) If the Commissioner determines that the employer has stated adequate facts or legal grounds to warrant a hearing, the Commissioner shall provide written notice of the hearing to show cause why a civil penalty should not be assessed and shall mail written notice to the employer of the date, time and place of the hearing. Such determination shall be within the sole discretion of the Commissioner. The notice shall inform the employer of its rights in the show cause hearing including: (1) the right to be represented by any person, including an attorney; and (2) the right to present documentary evidence and written and/or oral argument in support of the employer's position. (b) A request for postponement of a hearing so scheduled shall only be granted where the rights of an employer would be substantially prejudiced by the denial of the request or in a medical emergency. The Commissioner has sole discretion to grant such requests.

Sec. 31-71h-6. Determination of penalty

(a) Following a hearing or after the employer has waived the right to request a hearing, the Commissioner may uphold or modify the civil penalty assessment, such determination shall be within the sole discretion of the Commissioner. (b) If the employer requests a hearing, but the Commissioner denies the request for a hearing, the total civil penalty assessed in the Notice shall be the final civil penalty. (c) If the employer does not request a hearing or respond in writing to the Notice, the total civil penalty assessed in the Notice shall be the final civil penalty unless otherwise modified by the Commissioner.

**Connecticut Department of Labor
Wage and Workplace Standards Division
FOOTNOTES**

- ⇒ Please Note: If the “Benefits” listed on the schedule for the following occupations includes a letter(s) (+ a or + a+b for instance), refer to the information below.

Benefits to be paid at the appropriate prevailing wage rate for the listed occupation.

If the “Benefits” section for the occupation lists only a dollar amount, disregard the information below.

Bricklayers, Cement Masons, Cement Finishers, Concrete Finishers, Stone Masons
(Building Construction) and
(Residential- Hartford, Middlesex, New Haven, New London and Tolland Counties)

- a. Paid Holiday: Employees shall receive 4 hours for Christmas Eve holiday provided the employee works the regularly scheduled day before and after the holiday. Employers may schedule work on Christmas Eve and employees shall receive pay for actual hours worked in addition to holiday pay.

Elevator Constructors: Mechanics

- a. Paid Holidays: New Year’s Day, Memorial Day, Independence Day, Labor Day, Veterans’ Day, Thanksgiving Day, Christmas Day, plus the Friday after Thanksgiving.
- b. Vacation: Employer contributes 8% of basic hourly rate for 5 years or more of service or 6% of basic hourly rate for 6 months to 5 years of service as vacation pay credit.

Glaziers

- a. Paid Holidays: Labor Day and Christmas Day.

Power Equipment Operators
(Heavy and Highway Construction & Building Construction)

- a. Paid Holidays: New Year’s Day, Good Friday, Memorial day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, provided the employee works 3 days during the week in which the holiday falls, if scheduled, and if scheduled, the working day before and the working day after the holiday. Holidays falling on Saturday may be observed on Saturday, or if the employer so elects, on the preceding Friday.

Ironworkers

- a. Paid Holiday: Labor Day provided employee has been on the payroll for the 5 consecutive work days prior to Labor Day.

Laborers (Tunnel Construction)

- a. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. No employee shall be eligible for holiday pay when he fails, without cause, to work the regular work day preceding the holiday or the regular work day following the holiday.

Roofers

- a. Paid Holidays: July 4th, Labor Day, and Christmas Day provided the employee is employed 15 days prior to the holiday.

Sprinkler Fitters

- a. Paid Holidays: Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day, provided the employee has been in the employment of a contractor 20 working days prior to any such paid holiday.

Truck Drivers

(Heavy and Highway Construction & Building Construction)

- a. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas day, and Good Friday, provided the employee has at least 31 calendar days of service and works the last scheduled day before and the first scheduled day after the holiday, unless excused.

Informational Bulletin

THE 10-HOUR OSHA CONSTRUCTION SAFETY AND HEALTH COURSE

(applicable to public building contracts entered into *on or after July 1, 2007*, where the total cost of all work to be performed is at least \$100,000)

- (1) This requirement was created by Public Act No. 06-175, which is codified in Section 31-53b of the Connecticut General Statutes (pertaining to the prevailing wage statutes);
- (2) The course is required for public building construction contracts (projects funded in whole or in part by the state or any political subdivision of the state) entered into on or after July 1, 2007;
- (3) It is required of private employees (not state or municipal employees) and apprentices who perform manual labor for a general contractor or subcontractor on a public building project where the total cost of all work to be performed is at least \$100,000;
- (4) The ten-hour construction course pertains to the ten-hour Outreach Course conducted in accordance with federal OSHA Training Institute standards, and, for telecommunications workers, a ten-hour training course conducted in accordance with federal OSHA standard, 29 CFR 1910.268;
- (5) The internet website for the federal OSHA Training Institute is http://www.osha.gov/fso/ote/training/edcenters/fact_sheet.html;
- (6) The statutory language leaves it to the contractor and its employees to determine who pays for the cost of the ten-hour Outreach Course;
- (7) Within 30 days of receiving a contract award, a general contractor must furnish proof to the Labor Commissioner that all employees and apprentices performing manual labor on the project will have completed such a course;
- (8) Proof of completion may be demonstrated through either: (a) the presentation of a *bona fide* student course completion card issued by the federal OSHA Training Institute; *or* (2) the presentation of documentation provided to an employee by a trainer certified by the Institute pending the actual issuance of the completion card;
- (9) Any card with an issuance date more than 5 years prior to the commencement date of the construction project shall not constitute proof of compliance;

- (10) Each employer shall affix a copy of the construction safety course completion card to the certified payroll submitted to the contracting agency in accordance with Conn. Gen. Stat. § 31-53(f) on which such employee's name first appears;
- (11) Any employee found to be in non-compliance shall be subject to removal from the worksite if such employee does not provide satisfactory proof of course completion to the Labor Commissioner by the fifteenth day after the date the employee is determined to be in noncompliance;
- (12) Any such employee who is determined to be in noncompliance may continue to work on a public building construction project for a maximum of fourteen consecutive calendar days while bringing his or her status into compliance;
- (13) The Labor Commissioner may make complaint to the prosecuting authorities regarding any employer or agent of the employer, or officer or agent of the corporation who files a false certified payroll with respect to the status of an employee who is performing manual labor on a public building construction project;
- (14) The statute provides the minimum standards required for the completion of a safety course by manual laborers on public construction contracts; any contractor can exceed these minimum requirements; and
- (15) Regulations clarifying the statute are currently in the regulatory process, and shall be posted on the CTDOL website as soon as they are adopted in final form.
- (16) Any questions regarding this statute may be directed to the Wage and Workplace Standards Division of the Connecticut Labor Department via the internet website of <http://www.ctdol.state.ct.us/wgwkstnd/wgemenu.htm>; or by telephone at (860)263-6790.

THE ABOVE INFORMATION IS PROVIDED EXCLUSIVELY AS AN EDUCATIONAL RESOURCE, AND IS NOT INTENDED AS A SUBSTITUTE FOR LEGAL INTERPRETATIONS WHICH MAY ULTIMATELY ARISE CONCERNING THE CONSTRUCTION OF THE STATUTE OR THE REGULATIONS.

Important Information:

Welders: Rate for craft to which welding is incidental.

Surveyors: Hazardous material removal: \$3.00 per hour premium.

*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 journeyperson 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.

November 29, 2006

Notice
To All Mason Contractors and Interested Parties
Regarding Construction Pursuant to Section 31-53 of the
Connecticut General Statutes (Prevailing Wage)

The Connecticut Labor Department Wage and Workplace Standards Division is empowered to enforce the prevailing wage rates on projects covered by the above referenced statute.

Over the past few years the Division has withheld enforcement of the rate in effect for workers who operate a forklift on a prevailing wage rate project due to a potential jurisdictional dispute.

The rate listed in the schedules and in our Occupational Bulletin (see enclosed) has been as follows:

Forklift Operator:

- **Laborers (Group 4) Mason Tenders** - operates forklift solely to assist a mason to a maximum height of nine feet only.
- **Power Equipment Operator (Group 9)** - operates forklift to assist any trade and to assist a mason to a height over nine feet.

The U.S. Labor Department conducted a survey of rates in Connecticut but it has not been published and the rate in effect remains as outlined in the above Occupational Bulletin.

Since this is a classification matter and not one of jurisdiction, effective January 1, 2007 the Connecticut Labor Department will enforce the rate on each schedule in accordance with our statutory authority.

Your cooperation in filing appropriate and accurate certified payrolls is appreciated.

Information Bulletin

Occupational Classifications

The Connecticut Department of Labor has the responsibility to properly determine "job classification" on prevailing wage projects covered under C.G.S. Section 31-53(d).

Note: This information is intended to provide a sample of some occupational classifications for guidance purposes only. It is not an all-inclusive list of each occupation's duties. This list is being provided only to highlight some areas where a contractor may be unclear regarding the proper classification. If unsure, the employer should seek guidelines for CTDOL.

Below are additional clarifications of specific job duties performed for certain classifications:

- **ASBESTOS WORKERS**

Applies all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems.

- **ASBESTOS INSULATOR**

Handle, install apply, fabricate, distribute, prepare, alter, repair, dismantle, heat and frost insulation, including penetration and fire stopping work on all penetration fire stop systems.

- **BOILERMAKERS**

Erects hydro plants, incomplete vessels, steel stacks, storage tanks for water, fuel, etc. Builds incomplete boilers, repairs heat exchanges and steam generators.

- **BRICKLAYERS, CEMENT MASONS, CEMENT FINISHERS, MARBLE MASONS, PLASTERERS, STONE MASONS, PLASTERERS. STONE MASONS, TERRAZZO WORKERS, TILE SETTERS**

Lays building materials such as brick, structural tile and concrete cinder, glass, gypsum, terra cotta block. Cuts, tools and sets marble, sets stone, finishes concrete, applies decorative steel, aluminum and plastic tile, applies cements, sand, pigment and marble chips to floors, stairways, etc.

- **CARPENTERS, MILLWRIGHTS. PILEDRIVERMEN. LATHERS. RESILEINT FLOOR LAYERS, DOCK BUILDERS, DIKERS, DIVER TENDERS**

Constructs, erects, installs and repairs structures and fixtures of wood, plywood and wallboard. Installs, assembles, dismantles, moves industrial machinery. Drives piling into ground to provide foundations for structures such as buildings and bridges, retaining walls for earth embankments, such as cofferdams. Fastens wooden, metal or rockboard lath to walls, ceilings and partitions of buildings, acoustical tile layer, concrete form builder. Applies firestopping materials on fire resistive joint systems only. Installation of curtain/window walls only where attached to wood or metal studs. Installation of insulated material of all types whether blown, nailed or attached in other ways to walls, ceilings and floors of buildings. Assembly and installation of modular furniture/furniture systems. Free-standing furniture is not covered. This includes free standing: student chairs, study top desks, book box desks, computer furniture, dictionary stand, atlas stand, wood shelving, two-position information access station, file cabinets, storage cabinets, tables, etc.

- **LABORER, CLEANING**

- The clean up of any construction debris and the general (heavy/light) cleaning, including sweeping, wash down, mopping, wiping of the construction facility and its furniture, washing, polishing, and dusting.

- **DELIVERY PERSONNEL**

- If delivery of supplies/building materials is to one common point and stockpiled there, prevailing wages are not required. If the delivery personnel are involved in the distribution of the material to multiple locations within the construction site then they would have to be paid prevailing wages for the type of work performed: laborer, equipment operator, electrician, ironworker, plumber, etc.

- An example of this would be where delivery of drywall is made to a building and the delivery personnel distribute the drywall from one "stockpile" location to further sub-locations on each floor. Distribution of material around a construction site is the job of a laborer or tradesman, and not a delivery personnel.

- **ELECTRICIANS**

Install, erect, maintenance, alteration or repair of any wire, cable, conduit, etc., which generates, transforms, transmits or uses electrical energy for light, heat, power or other purposes, including the Installation or maintenance of telecommunication, LAN wiring or computer equipment, and low voltage wiring. ****License required per Connecticut General Statutes: E-1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9.***

- **ELEVATOR CONSTRUCTORS**

Install, erect, maintenance and repair of all types of elevators, escalators, dumb waiters and moving walks. **License required by Connecticut General Statutes: R-1,2,5,6.*

- **FORK LIFT OPERATOR**

Laborers Group 4) Mason Tenders - operates forklift solely to assist a mason to a maximum height of nine (9) feet only.

Power Equipment Operator Group 9 - operates forklift to assist any trade, and to assist a mason to a height over nine (9) feet.

- **GLAZIERS**

Glazing wood and metal sash, doors, partitions, and 2 story aluminum storefronts. Installs glass windows, skylights, store fronts and display cases or surfaces such as building fronts, interior walls, ceilings and table tops and metal store fronts. Installation of aluminum window walls and curtain walls is the "joint" work of glaziers and ironworkers, which require equal composite workforce.

- **IRONWORKERS**

Erection, installation and placement of structural steel, precast concrete, miscellaneous iron, ornamental iron, metal curtain wall, rigging and reinforcing steel. Handling, sorting, and installation of reinforcing steel (rebar). Metal bridge rail (traffic), metal bridge handrail, and decorative security fence installation. Installation of aluminum window walls and curtain walls is the "joint" work of glaziers and ironworkers which require equal composite workforce.

- **INSULATOR**

- Installing fire stopping systems/materials for "Penetration Firestop Systems": transit to cables, electrical conduits, insulated pipes, sprinkler pipe penetrations, ductwork behind radiation, electrical cable trays, fire rated pipe penetrations, natural polypropylene, HVAC ducts, plumbing bare metal, telephone and communication wires, and boiler room ceilings.

- **LABORERS**

Acetylene burners, asphalt rakers, chain saw operators, concrete and power buggy operator, concrete saw operator, fence and guard rail erector (except metal bridge rail (traffic), decorative security fence (non-metal)).

installation.), hand operated concrete vibrator operator, mason tenders, pipelayers (installation of storm drainage or sewage lines on the street only), pneumatic drill operator, pneumatic gas and electric drill operator, powermen and wagon drill operator, air track operator, block paver, curb setters, blasters, concrete spreaders.

- **PAINTERS**

Maintenance, preparation, cleaning, blasting (water and sand, etc.), painting or application of any protective coatings of every description on all bridges and appurtenances of highways, roadways, and railroads. Painting, decorating, hardwood finishing, paper hanging, sign writing, scenic art work and drywall hhg for any and all types of building and residential work.

- **LEAD PAINT REMOVAL**

- Painter's Rate

1. Removal of lead paint from bridges.
2. Removal of lead paint as preparation of any surface to be repainted.
3. Where removal is on a Demolition project prior to reconstruction.

- Laborer's Rate

1. Removal of lead paint from any surface NOT to be repainted.
2. Where removal is on a *TOTAL* Demolition project only.

- **PLUMBERS AND PIPEFITTERS**

Installation, repair, replacement, alteration or maintenance of all plumbing, heating, cooling and piping. **License required per Connecticut General Statutes: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2 S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4.*

- **POWER EQUIPMENT OPERATORS**

Operates several types of power construction equipment such as compressors, pumps, hoists, derricks, cranes, shovels, tractors, scrapers or motor graders, etc. Repairs and maintains equipment. **License required, crane operators only, per Connecticut General Statutes.*

- **ROOFERS**

Covers roofs with composition shingles or sheets, wood shingles, slate or asphalt and gravel to waterproof roofs, including preparation of surface. (demolition or removal of any type of roofing and or clean-up of any and all areas where a roof is to be relaid.)

- **SHEETMETAL WORKERS**

Fabricate, assemble, install and repair sheetmetal products and equipment in such areas as ventilation, air-conditioning, warm air heating, restaurant equipment, architectural sheet metal work, sheetmetal roofing, and aluminum gutters. Fabrication, handling, assembling, erecting, altering, repairing, etc. of coated metal material panels and composite metal material panels when used on building exteriors and interiors as soffits, fascia, louvers, partitions, canopies, cornice, column covers, awnings, beam covers, cladding, sun shades, lighting troughs, spires, ornamental roofing, metal ceilings, mansards, copings, ornamental and ventilation hoods, vertical and horizontal siding panels, trim, etc. The sheet metal classification also applies to the vast variety of coated metal material panels and composite metal material panels that have evolved over the years as an alternative to conventional ferrous and non-ferrous metals like steel, iron, tin, copper, brass, bronze, aluminum, etc. Fabrication, handling, assembling, erecting, altering, repairing, etc. of architectural metal roof, standing seam roof, composite metal roof, metal and composite bathroom/toilet partitions, aluminum gutters, metal and composite lockers and shelving, kitchen equipment, and walk-in coolers. To include testing and air –balancing ancillary to installation and construction.

- **SPRINKLER FITTERS**

Installation, alteration, maintenance and repair of fire protection sprinkler systems.

****License required per Connecticut General Statutes: F-1,2,3,4.***

- **TILE MARBLE AND TERRAZZO FINISHERS**

Assists and tends the tile setter, marble mason and terrazzo worker in the performance of their duties.

- **TRUCK DRIVERS**

~How to pay truck drivers delivering asphalt is under REVISION~

Truck Drivers are required to be paid prevailing wage for time spent "working" directly on the site. These drivers remain covered by the prevailing wage for any time spent transporting between the actual construction location and facilities (such as fabrication, plants, mobile factories, batch plant, borrow pits, job headquarters, tool yards, etc.) dedicated exclusively, or nearly so, to performance of the contract or project, which are so located in proximity to the actual construction location that it is reasonable to include them. ****License required, drivers only, per Connecticut General Statutes.***

For example:

- Material men and deliverymen are not covered under prevailing wage as long as they are not directly involved in the construction process. If, they unload the material, they would then be covered by prevailing wage for the classification they are performing work in: laborer, equipment operator, etc.
- Hauling material off site is not covered provided they are not dumping it at a location outlined above.
- Driving a truck on site and moving equipment or materials on site would be considered covered work, as this is part of the construction process.

➤ *Any questions regarding the proper classification should be directed to:*
Public Contract Compliance Unit
Wage and Workplace Standards Division
Connecticut Department of Labor
200 Folly Brook Blvd, Wethersfield, CT 06109
(860) 263-6790.

[New] In accordance with Section 31-53b(a) of the C.G.S. each contractor shall provide a copy of the OSHA 10 Hour Construction Safety and Health Card for each employee, to be attached to the first certified payroll on the project.

PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS												Connecticut Department of Labor Wage and Workplace Standards Division 200 Folly Brook Blvd. Wethersfield, CT 06109										
In accordance with Connecticut General Statutes, 31-53 Certified Payrolls with a statement of compliance shall be submitted monthly to the contracting agency.												WEEKLY PAYROLL										
CONTRACTOR NAME AND ADDRESS: Landon Corporation, 15 Connecticut Avenue, Northford, CT 06472										SUBCONTRACTOR NAME & ADDRESS XYZ Corporation 2 Main Street Yantic, CT 06389			WORKER'S COMPENSATION INSURANCE CARRIER Travelers Insurance Company POLICY # #BAC8888928 EFFECTIVE DATE: 1/1/09 EXPIRATION DATE: 12/31/09									
PAYROLL NUMBER	Week-Ending Date	PROJECT NAME & ADDRESS																				
1	9/26/09	DOT 105-296, Route 82																				
PERSON/WORKER, ADDRESS and SECTION	APPR RATE %	MALE/FEMALE AND RACE*	WORK CLASSIFICATION Trade License Type & Number - OSHA 10 Certification Number	DAY AND DATE							Total ST Hours Total O/T Hours	BASE HOURLY RATE TOTAL FRINGE BENEFIT PLAN CASH	TYPE OF FRINGE BENEFITS Per Hour 1 through 6 (see back)	GROSS PAY FOR ALL WORK PERFORMED THIS WEEK	TOTAL DEDUCTIONS				GROSS PAY FOR THIS PREVAILING RATE JOB	CHECK # AND NET PAY		
				S	M	T	W	TH	F	S					FICA	FEDERAL	STATE	LIST OTHER				
				20	21	22	23	24	25	26												
HOURS WORKED EACH DAY																						
Robert Craft 81 Maple Street Willimantic, CT 06226		M/C	Electrical Lineman E-1 1234567 Owner OSHA 123456		8	8	8	8	8			S-TIME 40 O-TIME	\$ 30.75 Base Rate	1. \$ 5.80 2. \$ 3. \$ 2.01	\$1,582.80				P-xxxx	\$1,582.80	#123 \$ xxx.xx	
Ronald Jones 212 Elm Street Norwich, CT 06360	65%	M/B	Electrical Apprentice OSHA 234567		8	8	8	8	8			S-TIME 40 O-TIME	\$ 19.99 Base Rate	1. \$ 2. \$ 3. \$	\$1,464.80	xx.xx	xxx.xx	xx.xx	G-xxx	\$1,464.80	#124 \$xxx.xx	
Franklin T. Smith 234 Washington Rd. New London, CT 06320 SECTION B		M/H	Project Manager			8						S-TIME 8 O-TIME	\$ Base Rate	1. \$ 2. \$ 3. \$	\$1,500.00	xx.xx	xx.xx	xx.xx	M-xx.x		#125 xxx.xx	
												S-TIME O-TIME	\$ Base Rate	1. \$ 2. \$ 3. \$								

7/13/2009
WWS-CP1
*IF REQUIRED
*SEE REVERSE SIDE
PAGE NUMBER 1 OF 2

OSHA 10 ~ATTACH CARD TO 1ST CERTIFIED PAYROLL

***FRINGE BENEFITS EXPLANATION (P):**

Bona fide benefits paid to approved plans, funds or programs, except those required by Federal or State Law (unemployment tax, worker's compensation, income taxes, etc.).

Please specify the type of benefits provided:

- 1) Medical or hospital care Blue Cross 4) Disability _____
2) Pension or retirement _____ 5) Vacation, holiday _____
3) Life Insurance Utopia 6) Other (please specify) _____

CERTIFIED STATEMENT OF COMPLIANCE

For the week ending date of 9/26/09,

I, Robert Craft of XYZ Corporation, (hereafter known as
Employer) in my capacity as Owner (title) do hereby certify and state:

Section A:

1. All persons employed on said project have been paid the full weekly wages earned by them during the week in accordance with Connecticut General Statutes, section 31-53, as amended. Further, I hereby certify and state the following:

a) The records submitted are true and accurate;

b) The rate of wages paid to each mechanic, laborer or workman and the amount of payment or contributions paid or payable on behalf of each such employee to any employee welfare fund, as defined in Connecticut General Statutes, section 31-53 (h), are not less than the prevailing rate of wages and the amount of payment or contributions paid or payable on behalf of each such employee to any employee welfare fund, as determined by the Labor Commissioner pursuant to subsection Connecticut General Statutes, section 31-53 (d), and said wages and benefits are not less than those which may also be required by contract;

c) The Employer has complied with all of the provisions in Connecticut General Statutes, section 31-53 (and Section 31-54 if applicable for state highway construction);

d) Each such employee of the Employer is covered by a worker's compensation insurance policy for the duration of his employment which proof of coverage has been provided to the contracting agency;

e) The Employer does not receive kickbacks, which means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided directly or indirectly, to any prime contractor, prime contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a prime contractor in connection with a subcontractor relating to a prime contractor; and

f) The Employer is aware that filing a certified payroll which he knows to be false is a class D felony for which the employer may be fined up to five thousand dollars, imprisoned for up to five years or both.

2. OSHA~The employer shall affix a copy of the construction safety course, program or training completion document to the certified payroll required to be submitted to the contracting agency for this project on which such employee's name first appears.

Robert Craft owner 10/2/09
(Signature) (Title) Submitted on (Date)

Section B: Applies to CONNDOT Projects ONLY

That pursuant to CONNDOT contract requirements for reporting purposes only, all employees listed under Section B who performed work on this project are not covered under the prevailing wage requirements defined in Connecticut General Statutes Section 31-53.

Robert Craft owner 10/2/09
(Signature) (Title) Submitted on (Date)

Note: CTDOL will assume all hours worked were performed under Section A unless clearly delineated as Section B WWS-CP1 as such. Should an employee perform work under both Section A and Section B, the hours worked and wages paid must be segregated for reporting purposes.

THIS IS A PUBLIC DOCUMENT
DO NOT INCLUDE SOCIAL SECURITY NUMBERS

SECTION 01200 - SUMMARY OF THE WORK

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the contract, including General and Special conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 - SUMMARY OF THE WORK

- A. The scope of this contract, known as “Window & Siding Replacement at Green Valley and Laurel Park, Enfield, CT”, generally includes selective demolition, new vinyl siding and new replacement windows for the Units specified by the Owner in the Invitation to Bid.
- B. Verbal Summary of the Work without force and effect, includes, but is not limited to:
 - 1. Selective demolition, including replacement of all existing siding materials down to the wood sheathing.
 - 2. Cutting and patching.
 - 3. New vinyl siding.
 - 4. New gutters and leaders.
 - 5. Window replacement.
 - 6. New exterior light fixtures.
 - 7. Unit numbers.
 - 8. Mailboxes.
 - 9. Doorbell buttons.
 - 10. Storm doors.
 - 11. Exterior doors.
 - 12. Vent caps.
 - 13. Gable end vents.
 - 14. Install spray foam insulation in exterior walls in areas where kitchen piping exists.
 - 15. Porch post wraps.
 - 16. Shutters.
 - 17. Exterior Doors (re-use existing locksets and deadbolts).
 - 18. Replace existing asphalt roofing systems.
- C. Refer to Bid Form for Unit Pricing.

1.3 - EXISTING CONDITIONS

- A. This project includes work which is affected by existing conditions. Existing conditions which may affect the Work may be discovered during the progress of the Work. Make adjustments in the work as required accommodating existing conditions. Where products are to be installed in existing construction, perform cutting, removal of old products (if applicable), reinstallation of existing materials, installation of new products, rebuilding of adjacent construction, and other operations as required.
 - 1. The Owner will issue prompt instructions when unanticipated conditions are encountered.

2. If unanticipated conditions are such as to impose a hardship on the Contractor as interpreted by the Owner's Representative, such as faulty structure which must be rebuilt, appropriate change orders will be issued for approval by the Owner/Owner's Representative.
 3. Make adjustments in the Work, other than those described in two above, without additional compensation.
- B. The Drawings do not attempt to show every item of existing work to be demolished and every item of repair required to existing surfaces. Perform work required to remove existing materials not to be saved and to restore existing surfaces to like-new condition.
1. If possible, repairs shall be indistinguishable from adjacent sound surfaces. Where it is impossible to achieve repairs which are indistinguishable from adjacent sound surfaces, notify the Owner/Architect, and proceed according to the Owners instructions.
- C. The intention is that the project shall include the work required at the interface between new and existing construction.

1.4 - USE OF PREMISES

- A. The following are in addition to requirements of the General Conditions governing the Contractor's use of the premises.
1. Assume full responsibility for protection and storage of products stored on the premises.
 2. The Contractor shall have use of the premises between the hours of 8:00 AM and 5:00 PM, Monday through Friday. It is during these hours that all work must take place. Additional week day hours and any work to be done on weekends must be approved in advance by the Owner.
 3. The Contractor shall not have use of the premises on holidays that the Housing Authority is closed. A list of these dates will be provided to the successful bidder.
 4. Since the buildings will be open during the construction work, the Contractor shall take the necessary precautions to insure safe access to all entries in use. The tenants will be responsible for moving furnishings from areas within the contract limit lines, as well as non permanent signage which they wish to retain.

1.5 - REFERENCE STANDARDS

- A. Unless date is listed, reference to standard specifications shall mean latest edition of such specification legally adopted and published at the date the Contract is executed.
- B. Reference to technical society or organization is made in the project manual according to the following abbreviations:

A.A.M.A.	Architectural Aluminum Manufacturers Association
A.C.I.	American Concrete Institute
A.I.A.	American Institute of Architects

A.I.E.E.	American Institute of Electrical Engineers
A.I.S.C.	American Institute of Steel Construction
A.I.T.C.	American Institute of Timber Construction
A.N.S.I.	American National Standards Institute
A.P.A.	American Plywood Association
A.S.H.R.A.E.	American Society of Heating, Refrigeration, and Air Conditioning Engineers
A.S.M.E.	American Society of Mechanical Engineers
A.S.T.M.	American Society of Testing Materials
A.W.I.	American Woodwork Institute
A.W.P.I.	American Wood Preservers Institute
A.W.S.	American Welding Society
A.W.W.A.	American Water Works Association
B.O.C.A.	Building Officials & Code Administrators International, Inc.
C.H.F.A.	Connecticut Housing Finance Authority
C.P.S.C.	Consumer Products Safety Commission
C.S.I.	Construction Specification Institute
D.E.C.D.	Department of Economic and Community development.
D.O.H.	Department of Housing
E.E.I.	Edison Electric Institute
Form 816	Connecticut State Department of Transportation Standard Specifications for Roads, Bridges, and Incidental Construction
F.M.	Factory Mutual
F.S.	Federal Specification
H.U.D.	U.S. Department of Housing and Urban Development
I.E.S.	Illuminating Engineers Society
I.S.D.S.I.	Insulated Steel Door Systems Institute
N.A.A.M.M.	National Association of Architectural Metal Manufacturers
N.B.F.U.	National Board of Fire Underwriters
N.B.S.	National Bureau of Standards
N.E.C.	National Electric Code
N.F.P.A.	National Fire Protection Association
O.S.H.A.	Occupational Safety and Health Administration
S.D.I.	Steel Deck Institute
S.I.G.M.A.	Sealed Insulating Glass Manufacturer's Association
S.J.I.	Steel Joist Institute
S.M.A.C.N.A.	Sheetmetal and Air Conditioning Contractors National Association, Inc.
S.S.P.C.	Steel Structures Painting Council
U.L.	Underwriters Laboratories, Inc.
W.W.P.A.	Western Wood Products Association

1.6 - GUARANTEES

- A. All guarantees and warranties shall commence on the date of Final Acceptance of the Work or the item being guaranteed, whichever is later, so that the Owner receives full use of the items for the guarantee period.

1.7 - SALVABLE MATERIALS

- A. Consult with the Owner, prior to demolition on which, if any, materials scheduled to be removed shall be retained for their use.
- B. Deliver in good usable condition, to a location determined by the Owner, all materials determined to be salvageable.

PART 2 - PRODUCTS - (Not Used)

PART 3 - EXECUTION - (Not Used)

END OF SECTION 01200

SECTION 01270 - UNIT PRICES

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this Section.

1.2 - WORK INCLUDED

- A. This Section includes administrative and procedural requirements for Unit Prices.
- B. Refer to other specification sections for specific requirements for this work.
- C. Enter Unit Price amounts on the enclosed Bid Form.

1.3 - DEFINITIONS

- A. Unit price is an amount proposed by bidders, stated on the Bid Form, as a price per unit of measurement for materials or services added to or deducted from the Contract Sum by appropriate modification, if estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 - PROCEDURES

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

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

- A. Refer to Drawings for details and locations for Unit Price work.
- B. If Unit Price work is encountered in the field and not identified on the Drawings, the Contractor shall provide written and photographic documentation, including locations where work is required, dimensions in linear feet, or square feet, sketches and other quantities.

3.1 - LIST OF UNIT PRICES

- A. **Unit Price No. 1 – Plywood Sheathing (match existing thickness)**
 - 1. Condition - Exterior sheathing thicknesses vary and in some cases, homasote is used as an exterior sheathing. Contractor shall verify in field, the thickness of all deteriorated sheathing that shall be removed and replaced.
 - 2. Description - Install new 1/2", 5/8", or 3/4" CDX plywood sheathing as follows:
 - a. Rotted exterior sheathing being replaced.
 - b. Infill plywood where existing homasote is being removed.
 - c. Where homasote is used as sheathing, provide at each side of each corner of the existing house structure provide min. 32" of sheathing for lateral bracing. Refer to Drawing Details
 - 3. Unit of measure - Per square foot.
- B. **Unit Price No. 2 – 1/2" Gypsum Wallboard**
 - 1. Condition - Areas where the existing gypsum wallboard is deteriorated, or removed to accommodate window replacement, provide new gypsum wall board to match existing and prime and paint, two finish coats to nearest breakpoint.
 - 2. Unit of measure - Per square foot.
- C. **Unit Price No. 3 – R-15 Kraft-faced Batt Insulation**
 - 1. Condition - Areas where the existing batt insulation is deteriorated, or missing, provide new batt insulation.
 - 2. Unit of measure - Per square foot.

D. Unit Price No. 4 – 2x4 Exterior Wall Studs

1. Condition – Areas where the existing 2x4 exterior wall studs are deteriorated, or spaced more than 16” o.c., provide new 2x4 exterior wall studs.
2. Unit of measure – Per stud.

E. Unit Price No. 5 – 4x4 PT Porch Post

1. Condition – Areas where the existing 4x4 wood porch post is deteriorated, provide new 4x4 pressure treated wood post.
2. Unit of measure – Per post.

F. Unit Price No. 6 – Wood Fascia

1. Condition – Areas where the existing wood fascia is deteriorated, provide new wood fascia to match existing and prime and paint, two finish coats. Assume 1x8 wood fascia.
2. Unit of measure – Per linear foot.

G. Unit Price No. 7 – Exterior Door - Front

1. Remove existing door frame and interior trim.
2. Provide and install ThermaTru Smoothstar S296 door.
3. Set threshold in bed of sealant and insulate at jambs and head.
4. Install new interior trim to match existing trim.
5. Prime and paint (2 coats) door and trim.
6. Reuse existing latchset and deadbolt.

H. Unit Price No. 8 – Exterior Door – Side/Rear

1. Remove existing door frame and interior trim.
2. Provide and install ThermaTru Smoothstar S262XK door.
3. Set threshold in bed of sealant and insulate at jambs and head.
4. Install new interior trim to match existing trim.
5. Prime and paint (2 coats) door and trim.
6. Reuse existing latchset and deadbolt.

END OF SECTION 01270

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SECTION 01300 - DEMOLITION

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions and Division 1 Specification sections, apply to work specified in this section.

1.2 - GENERAL REQUIREMENTS

- A. "Demolition" denotes razing and removal of portions of existing structures, Installations and obstructions shown on Drawings or specified to be removed from the site, and includes taking possession of and removing from the site, all material, equipment and debris resulting from demolition work except as otherwise specified herein.
- B. Conform to all requirements of local authorities having jurisdiction including the following:
 - 1. Obtain and pay (if required) for all permits and licenses.
 - 2. Provide and maintain fire protection devices.
 - 3. Install and maintain barricades for protection of public and adjacent property (as required).
 - 4. Keep public and private ways free of dirt and debris at all times.
 - 5. All material shall be disposed of legally off the site.
- C. Upon completion remove all tools, equipment, temporary structures (if any) and installations and rubbish of every sort. Leave work areas in an orderly condition and the surrounding area in a broom-clean condition.
- D. It is the responsibility of the General Contractor to coordinate the demolition work with the general construction process and the work of other trades. The demolition work must be phased accordingly.
- E. Provide any temporary weather protection which may be required as a result of demolition work.

1.3 - EXISTING PUBLIC SPACES

- A. Before start of demolition, notify and arrange for appropriate utility companies to discontinue services and to remove meters and other regulating devices, not the property of the Owner, as required. Contractor to remove electrical devices as necessary.
- B. Cap and/or plug disconnected service lines as required by utility company concerned.
- C. Protect existing services indicated to remain on the site. Replace and/or repair

services damaged as a result of demolition work, at no expense to the Owner.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

3.1 - SCOPE

- A. Portions of structures, installations and obstructions to be demolished are as shown on the Contract Drawings and, in general but not necessarily limited to, those items as listed below:
 - 1. Removal of existing siding systems.
 - 2. Removal of existing windows.
 - 3. Removal of existing storm doors.
 - 4. Removal of existing exterior doors.
 - 5. Removal of related interior materials as needed in relation to other work.
 - 6. Removal of existing roofing systems.
- B. Demolition work shall not be limited to the above listing. The removal, relocation, or replacement of any item(s) by a trade as may be required (1) to complete the indicated scope of work or (2) to accomplish the intended result may require demolition work not specifically listed or shown on the Drawings. All such requirements shall be considered part of this work.

3.2 - PROTECTION

- A. Protect all walls, floors, ceilings and other existing items not to be removed. Portions damaged as a result of the work shall be replaced and repaired in compliance with the regulations of authorities having jurisdiction and without cost to the Owner.
- B. Do not close or obstruct means of egress in connection with the work. Materials and debris shall not be placed or stored in egress paths. Conduct operations so as to interfere as little as possible with normal activities.

END OF SECTION 01300

SECTION 01400 - SUBMITTALS

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions and Special Conditions and Division 1 Specification sections apply to work specified in this section.

1.2 - RELATED REQUIREMENTS SPECIFIED ELSEWHERE

- A. Substitutions and product options are indicated in Item 8 of Section 00900, Special Conditions.
- B. Materials and methods requiring submittals are listed, where applicable, within each Respective section of this specification.

1.3 - IDENTIFICATION

- A. Identify each submittal with the following information:
 - 1. Date and revision date(s).
 - 2. Project title.
 - 3. The names of: Owner's Representative, Contractor, Subcontractor, supplier, manufacturer or separate detailer when pertinent.
 - 4. Identification of products, materials and finishes.
 - 5. Relation to adjacent structure or material.
 - 6. Field dimensions, clearly identified as such.
 - 7. The specification section number, and applicable standards, such as ASTM or FS number.
 - 8. Quantities.
 - 9. Blank spaces, 4" x 4 1/2" each, for the Reviewer's stamp, and Consultant's stamp where applicable.
 - 10. Identification of deviations from Contract Documents.
 - 11. Contractor's stamp, initials or signed, certifying to review of submittal, the verification of the field measurements and quantities, and compliance with Contract Documents.

- B. Accompany the submittals with a transmittal letter containing:
 - 1. Date.
 - 2. Project Title and number.
 - 3. Contractor's name and address.
 - 4. The number and name of each item submitted.
 - 5. Notification of deviations from Contract Documents.

1.4 - SHOP DRAWINGS

- A. Provide the following information, where applicable, on all shop drawings:
 - 1. All necessary dimensions. Dimension work illustrated by shop drawings to fit actual field conditions.
 - 2. Sufficient detailing to show appearance, method of assembly or fabrication, and the method of installation or erection.
 - 3. Identification of details by reference to sheet and detail number shown on Contract Drawings.

1.5 - PRODUCT DATA

- A. Manufacturer's standard schematic drawings which are:
 - 1. Modified to delete any information which is not applicable to the Project.
 - 2. Supplemented to provide any additional information applicable to Project.
- B. Manufacturer's catalog sheets, brochures, diagrams schedules, performance charts, illustrations and other standard descriptive data.
 - 1. Clearly mark each copy to identify the pertinent materials, products, or models.
 - 2. Show dimensions and clearances required.
 - 3. Show performance characteristics and capacities.
- C. Test reports performed by independent testing agencies for manufacturer. On test reports list:
 - 1. System, material or work tested.
 - 2. Test results and witnesses.
 - 3. Description of correction of faults.

1.6 - SAMPLES

- A. Samples shall be of sufficient size and quantity to clearly illustrate:
 - 1. Functional characteristics of product or material, with integrally related parts and attachment devices.
 - 2. Full range of color samples.
 - 3. After the review, approved samples may be used in construction of Project, where appropriate.

1.7 - SUBMISSION REQUIREMENTS

- A. Submit to the Owner's Representative all shop drawings, product data and samples required by the specification sections.
- B. Schedule submissions at least 10 working days before dates reviewed submittals will be needed.
- C. Submit six black line prints of each shop drawing.
- D. Submit six copies each of all product data.
- E. Submit two each of required samples unless a greater number is specified or requested by the Owner's Representative.
- F. Submit samples with delivery charges prepaid. Samples delivered in damaged condition may not be acceptable, and may have to be resubmitted, to Architect's discretion.
- G. The Owner's Representative may, at his discretion, request submittals in addition to those specified.
- H. Facsimile copies are not acceptable for submission and will be returned un-reviewed.

1.8 - RESUBMISSION REQUIREMENTS

- A. Shop Drawings:
 - 1. Revise the initial drawings as required and resubmit as specified for initial submission.
 - 2. Indicate on drawings any changes which have been made other than those requested by Owner's Representative.
- B. Product data and Samples: Submit new data and samples as required for initial submission.

1.9 - ARCHITECT'S DUTIES

- A. Owner's Representative's responsibilities for processing submittals are defined in other sections of these specifications.
- B. Owner's Representative is not responsible for verifying quantities, dimensions, field measurements, or co-ordination of work of different trades. Architect's review of submittals shall not be construed to include or imply any such verification.

1.10 - CONTRACTOR'S DUTIES

- A. In addition to requirements of other Division 1 Specification sections.
 - 1. Contractor shall be responsible for obtaining and distributing prints of shop drawings after, as well as before final approval, to all parties, including, but not limited to the Owner, subcontractors and suppliers.
 - 2. Prints of approved shop drawings shall be made from sepia transparencies which carry the Reviewer's and Consultant's stamp of approval.
 - 3. Begin no work which requires shop drawings and product data unless the approved and stamp shop drawings and product data are on file at the job site.

PART 2 - NOT USED

PART 3 - NOT USED

END OF SECTION 01400

SECTION 01500 - CUTTING AND PATCHING

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions and Special Conditions and Division 1 Specification sections apply to work specified in this section.

1.2 - DESCRIPTION

- A. Definition: "Cutting and Patching" is hereby defined to include, but not necessarily limited to the cutting and patching of nominally completed and previously existing work, in order to accommodate the coordination of work, or the installation of other work, or to uncover other work for access or inspection, or to obtain samples for testing, or for similar purposes; and is defined to exclude integral cutting and patching during manufacturing, fabricating, erecting and installing process for individual units of work.
- B. Demolition is recognized as an example of a related, but separate category of work, which may or may not also require cutting and patching as defined in this Section. Refer to Section 01300.

1.3 - QUALITY ASSURANCE

- A. Requirements for Structural Work:
 - 1. General: Do not cut and patch structural work in a manner resulting in a reduction of bearing capacity or load/deflection ratio.
 - 2. Call for a structural inspection, and/or obtain the Owner's approval prior to cutting and patching any of the following:
 - a. Bearing Walls.
 - b. Structural decking and floor systems.
 - c. Exterior wall construction - including storefronts.
 - d. Pressurized piping, vessels and equipment.
- B. Visual requirements: Do not cut and patch work which is exposed on the exterior or exposed in occupied spaces of the building in a manner resulting in a reduction of visual qualities or resulting in substantial evidence of cutting and patching work, both as judged solely by the Owner. Remove and replace work judged by the Owner as having been cut and patched in a visually unsatisfactory manner.

1.4 - SUBMITTALS

A. Requests for Owner's Consent:

1. Prior to cutting and patching of structural elements, submit written request to the Owner for permission to proceed with cutting.
2. Should conditions of the Work, or schedule indicate a required change of materials or methods for cutting and patching, so notify the Owner and secure his written permission and the required Change Order prior to proceeding.

B. Notices to the Owner:

1. Prior to cutting and patching performed pursuant to the Owner's instructions, submit cost estimate to the Owner. Secure the Owner's approval of cost estimates and type of reimbursement before proceeding with cutting and patching.
2. Submit written notice to the Owner designating the time the work will be uncovered, to provide for the Owner's observation.

C. Approval by the Owner to proceed with proposed cutting and patching does not waive the right to later require complete removal and replacement of work found to be cut and patched in an unsatisfactory manner.

PART 2 - PRODUCTS

2.1 - MATERIALS

- ### A.
- For replacement of items removed, use identical materials to those being removed, or materials complying with the various Sections of these Specifications or the drawings, as appropriate. The end result of the cutting and patching operation shall result in equal or better work than the work being cut and patched, in terms of performance characteristics and including visual effects where applicable.

2.2 - PAYMENT FOR COSTS

- ### A.
- Perform cutting and patching needed to comply with the Contract Documents at no additional cost to the Owner. The Owner will reimburse the Contractor for cutting and patching performed pursuant to written Change Orders, after claim for such reimbursement is submitted by the Contractor, and approved in advance by the Owner.

PART 3 - EXECUTION

3.1 - INSPECTION

A. Inspection:

1. Inspect existing conditions, including elements subject to movement or damage during cutting and patching.
2. After uncovering the work, inspect conditions affecting installation of new work.

B. Discrepancies:

1. If uncovered conditions are not as anticipated, immediately notify the Owner and secure needed directions.
2. Do not proceed until unsatisfactory conditions are corrected.

3.2 - PREPARATION

- A. Provide adequate temporary support including, but not necessarily limited to shoring and bracing to maintain structural integrity of the Work. Do not endanger other work.
- B. Provide adequate protection of other work during cutting and patching, to prevent damage. Provide protection of the Work from adverse weather exposure.

3.3 - CUTTING AND PATCHING

- A. Perform cutting and patching as required under pertinent other Sections of these Specifications.
- B. Employ skilled tradesmen to perform all cutting and patching. Proceed with cutting and patching at the earliest feasible time, in each instance, and perform the work promptly.
- C. Patch with seams which are durable and as invisible as possible. Perform fitting and adjusting of products to provide finished installation complying with the specified tolerances and finishes.
- D. Select systems that adequately resist racking and provide acceptable deflection under live and dead loads. Reinforce to prevent cracking. Inspect and test patched areas to demonstrate integrity of work.
- E. In all cases of repair and renovation, restore exposed finishes of patched areas and where necessary, extend finished restoration onto retained work adjoining, in a manner which eliminates evidence of patching.
- F. Where re-painting areas due to cutting and patching as part of this work, paint the entire wall, to the nearest corner, in colors to match the existing, unless otherwise directed by the Owner.

- G. Where cutting and patching of ceilings is required, cut ceiling back as little as is required, and later infill to the point at which the existing ceiling is cut back. Refer to typical details on the drawings for additional information.
- H. Where floor finishes are to be cut back, cut back to nearest logical point, or as indicated on the drawings. Install new flooring, as indicated on the drawings, utilizing the necessary transitions, reducers, termination bars, etc.
- I. Consult with the architect as necessary to ensure compliance with the intention of cutting and patching work relative to floors and ceilings.

END OF SECTION 01500

SECTION 01700 - PROJECT CLOSEOUT

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions and Special Conditions and Division 1 Specification sections apply to work specified in this section.

1.2 - GENERAL

- A. The following requirements supplement those of other sections of these Specifications.

1.3 - CLEANING

- A. Hazard Control:
 - 1. Store all volatile wastes in covered non-flammable containers.
 - 2. Prevent accumulation of wastes which create hazardous conditions.
 - 3. Provide adequate ventilation during use of volatile or noxious substances.
- B. Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.
 - 1. Do not dispose of volatile wastes such as mineral spirits, oil or paint thinner in the storm or sanitary drains. Dispose of them legally off the site.
 - 2. Do not dispose of wastes in streams or waterways.
 - 3. Dispose of demolition and waste materials, debris and rubbish legally off the site.
- C. During construction, in addition to cleaning required other sections of these Specifications, perform the following:
 - 1. Keep building, grounds, and public properties free from accumulations of waste materials and rubbish.
 - 2. Provide on-site containers for the collection of all waste materials, all debris and rubbish. Dispose of waste materials, debris and rubbish at reasonable intervals, legally off the site.
 - 3. Clean interior building areas where construction occurred. after demolition work is complete and when ready to receive finish painting and continue cleaning on an as-needed basis until building is ready for substantial completion or occupancy.
 - 4. Schedule cleaning operations so that dust and other contaminants resulting from cleaning process will not fall on wet, newly painted surfaces.

- D. At substantial completion, in addition to leaving the work "broom clean", the following must be completed:
1. Remove dust, dirt, stains identifications stickers, fingerprints, paint droppings and other soil from finished surfaces.
 2. Clean and polish hardware, specialties, and equipment.
 3. Vacuum clean all sills until all debris is removed. Use a brush if necessary to free up stationary particles. Lubricate all tracks if necessary for smooth, easy opening and closing operations.
 4. Clean under and behind all concealed areas.
 5. If surfaces cannot be put in clean condition by cleaning, repaint them as required until they are at an acceptable level of quality.
 6. Clean site and clean up any debris of dirt off site, which resulted from work under this contract, and dispose of legally off the site.
 7. Maintain cleaning until Substantial Completion Certificate, approved by the Architect, is delivered to the Owner or the project is occupied by the Owner. Turn over the work fully clean and fit for occupancy.
 8. When workmen call back for "punch list" or guarantee work, clean up afterwards.

1.4 - SUBSTANTIAL COMPLETION

- A. Submit written certification to Owner's Representative that Project, or a designated portion of Project, is substantially complete. Submit list of major items to be completed or corrected.
- B. The Owner's Representative shall prepare and submit a list of the items to be completed or corrected as determined by the inspection.
- C. Should the Architect consider that the Work is substantially complete:
1. The Owner's Representative shall prepare and submit a list of items to be completed or corrected as determined by the inspection.
 2. Owner's Representative will prepare and issue a Certificate of Substantial Completion, complete with signatures of Owner and Contractor, accompanied by the list of items to be completed or corrected.
 3. Perform final cleaning as specified above.
 4. Complete work listed for completion or correction, within designated time.
 5. Obtain Certificate of Occupancy, if required.

D. Should Owner's Representative consider that the Work is not substantially complete:

1. He/she shall immediately notify the Contractor, in writing, stating reasons.
2. Contractor shall complete the Work, and send second written notice to the Owner's Representative, certifying that the Project, or a designated portion of the Project, is substantially complete.
3. Owner's Representative will re-inspect the work.

1.5 - FINAL INSPECTION

A. Contractor shall submit written certification, as required above, that:

1. Contract documents have been reviewed.
2. Project has been inspected for compliance with Contract Documents.
3. Work has been completed in accordance with Contract Documents.
4. Equipment and systems have been tested in presence of Owner's representative and are operational.
5. Project is completed, and ready for final inspection.

B. Owner's Representative will make final inspection within three days after receipt of certification.

C. If Owner's Representative considers that Work is finally complete in accordance with requirements of the Contract Documents, he/she shall request Contractor to make Project Closeout Submittals.

D. If Owner's Representative considers that Work is not finally complete:

1. He shall notify Contractor, in writing, stating reasons.
2. Contractor shall take immediate steps to remedy the stated deficiencies, and submit a second written notice to Owner's Representative certifying the Work is complete.
3. Owner's Representative will re-inspect work.

E. Should Owner's Representative be required to perform second inspection because of failure of Work to comply with original certifications of Contractor, Owner will compensate Owner's Representative for additional services, and deduct amount paid from final payment to Contractor.

1.6 - CLOSEOUT SUBMITTALS

A. Upon completion of the Work, deliver the following to the Owner's Representative, as required by the General Conditions and Specifications.

1. Project Record Documents. (Submit one (1) clean, legible marked up set of prints and other items, if required, as indicated in 1.7 below.)
 2. Operation and Maintenance Data.
 3. The guarantees, warranties and bonds.
 4. Parts and Maintenance Materials.
 5. Evidence of Compliance with requirements of the building department and other governing authorities, including:
 - a. Certificate of Occupancy, if required.
- B. Accompany closeout submittals with transmittal letter, in duplicate, containing:
1. Date
 2. Project title and number.
 3. Contractor's name and address.
 4. Certification that each Project Record Document, as submitted is complete and accurate.
 5. Signature of the Contractor, or his authorized representative.
- C. Instruct Owner's personnel in operation of all systems and other equipment.

1.7 - PROJECT RECORD DOCUMENTS

- A. Drawings, shop drawings, product data, specifications and addenda, marked by Contractor to record all changes made during construction described below, shall be referred to as "Project Record Documents."
- B. In addition to changes, record on Project Record Drawings the following as-built conditions:
1. Locations and sizes of conduit runs.
 2. Locations and sizes of access panels and doors.
 3. Location of all the mechanical and electrical control points.

PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION

NOT USED

END OF SECTION 01700

SECTION 06100 -ROUGH CARPENTRY

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this Section.

1.2 - RELATED WORK SPECIFIED ELSEWHERE

- A. Interior woodwork exposed to view is specified in Section 06200.

1.3 - REFERENCE STANDARDS

- A. Use lumber and plywood grade-marked in accordance with the following standards:
 - 1. Western wood: "Standard Grading Rules for Western Lumber", published by Western Wood Products Association.
 - 2. Southern Pine: "Standard Grading Rules for Southern Pine Lumber", published by Southern Pine Inspection Bureau.
 - 3. Plywood: Comply with PS 1 (ANSI A 199.1) or, for products not manufactured under PS 1 provisions, with applicable APA Performance Standard for type of panel indicated.
- B. Preservative pressure treated lumber and plywood shall comply with AWPAC C2 and C9, respectively, and with the requirements listed below:
 - 1. Wood for ground contact use: AWPB LP-22.
 - 2. Wood for above-ground use: AWPB LP-2.

C. Requirements for all lumber:

1. Lumber shall be seasoned to 19% or less moisture content.
2. Lumber and plywood shall be grade marked to show conformity to specifications.

PART 2 - PRODUCTS

2.1 - MATERIALS

- A. Sills, bucks, blocking, and nailers for use in conjunction with wood construction and where exposed to concrete, masonry, roofing or other sources of dampness: Any species of structural lumber, construction grade, pressure treated, meeting the requirements listed above.
- B. Joists, rafters, headers, stringers, beams, posts, studs, plates and other structural support members except those listed below: Douglas Fir-Larch, No.2 grade or better.
- C. Blocking, nailers, and other non-structural uses: Any species of structural lumber, construction grade or better.
- D. Exterior wall sheathing: nominal 1/2" tongue & groove, APA rated sheathing, Exposure 1.
- E. Roof Sheathing: Nominal 5/8", square edge, APA Rated Sheathing, Exposure 1.

PART 3 - EXECUTION

3.1 - WORKMANSHIP

- A. Produce joints which are tight, true and well nailed, with members assembled in accordance with the Drawings and with pertinent codes and regulations.
- B. Selection of lumber pieces:
 1. Carefully select the members.

2. Select individual pieces so that knots and obvious defects will not interfere with placing bolts or proper nailing, and will allow making of proper connections.
3. Cut out and discard defects which render a piece unable to serve its intended function.
4. Lumber may be rejected by the Owner's Representative, whether or not it has been installed, for excessive warp, twist, bow, crook, mildew, fungus, or mold, as well as for improper cutting and fitting.

C. Do not shim any framing component.

3.2 - GENERAL FRAMING

A. General:

1. Provide framing members of the size(s) and spacing shown on the Drawings.
2. In addition to framing operation normal to the fabrication and erection indicated on the Drawings, install solid wood blocking and backing required for fastening of grab bars and other accessories as required. All exterior blocking to be pressure treated.
3. Do not notch, cut, or bore members for pipes, ducts, or conduits, or for other reasons except as shown on the Drawings or as specifically approved in advance by the Owner's Representative.

B. Bearings:

1. Make bearings full unless otherwise indicated on the Drawings.
2. Finish bearing surface on which structural members are to rest so as to give sure and even support.
3. Where framing members slope, cut or notch the ends as required to give uniform bearing surface.

3.3 - ALIGNMENT

- A. On framing members to receive a finished surface, align the finish subsurface to vary not more than 1/8" from the plane of surfaces of adjacent furring and framing members.

3.4 - INSTALLATION OF PLYWOOD SHEATHING & UNDERLAYMENT

- A. Placements:
 - 1. Place plywood with face grain perpendicular to supports and continuously over at least two supports, except where otherwise shown on the Drawings.
 - 2. Center joints accurately over supports, unless otherwise shown on the Drawings.
- B. Protect plywood from moisture by use of waterproof coverings until the plywood in turn has been covered with the next succeeding component or finish.

3.5 - FASTENING

- A. Fasteners:
 - 1. Where rough carpentry is exposed to weather, in ground contact, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
 - 2. Power-Driven Fasteners: CABO NER-272.
 - 3. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers.
- B. Metal framing anchors: Provide timber connection hardware by Simpson or approved equal of the gauges shown on the Drawings, or as otherwise required. Provide galvanized anchors for attaching carpentry to masonry or concrete.
- C. Nailing:
 - 1. Use only common wire nails or spike of the sizes shown in Table 2304.9.1 of the Connecticut State Building Code, except where otherwise specifically noted on the Drawings.

2. For conditions not covered in the Table, provide penetration into the piece receiving the point of not less than $\frac{1}{2}$ the length of the nail or spike, provided, however, that 16d nails may be used to connect two pieces of 2" (nominal) thickness.
3. Nail without splitting wood.
4. Pre-bore as required.
5. Remove split members and replace with members complying with the specified requirements.

D. Bolting:

1. Drill holes $\frac{1}{16}$ " larger in diameter than the bolts being used.
2. Drill straight and true from one side only.
3. Do not bear bolt threads on wood, but use washers under head and nut where both bear on wood, and use washers under all nuts.

E. Screws:

1. For lag screws and wood screws, pre-bore holes same diameter as root of threads, enlarging holes to shank diameter for length of shank.
2. For screws at plywood underlayment, countersink screws such that head of screw is $\frac{1}{32}$ " below the uppermost surface of the plywood.

END OF SECTION 06100

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SECTION 06200 - FINISH CARPENTRY

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 - WORK INCLUDED

- A. Work specified in this section shall include all new interior woodwork exposed to view.

1.3 - RELATED WORK SPECIFIED ELSEWHERE

- A. Wood and plywood not specified here are specified in Section 06100.
- B. Painting is specified in Section 09900.

PART 2 - PRODUCTS

2.1 - MATERIALS AND FABRICATION

- A. The "Quality Standards" of the Architectural Woodwork Institute (AWI) is hereby incorporated by reference.
- B. Standing & running trim for opaque finish:
 - 1. Quality Grade: "Custom" as defined by AWI.
 - 2. Species: Clear white pine.
 - 3. Profile: As shown on the Drawings.

PART 3 - EXECUTION

3.1 - WORKMANSHIP

- A. Install finish carpentry in a manner consistent with specified quality of manufacturer, and/or acceptable standards of good practice. Distribute allowed defects to best overall advantage.
- B. Jointing: Produce joints which are true, tight and well nailed. Make joints to conceal shrinkage. Install trim in pieces as long as possible, jointing only where solid support is obtained.
 - 1. House or cope interior corners.
 - 2. Blind miter exterior joints.
 - 3. Miter or scarf end-to-end joints.
- C. Fastening:
 - 1. Install items straight, true, level, plumb, and firmly anchored in place.
 - 2. Where blocking or backing is required, coordinate as necessary with other trades to ensure placement of required backing and blocking in a timely manner.
 - 3. Nail trim with finish nails of proper dimension to hold the member firmly in place without splitting the wood.
 - 4. On exposed work, set nails for putty.
 - 5. Screw, do not drive, wood screws; except that screws may be started by driving and then screwed home.

3.2 - FINISHING

- A. Sandpaper finished wood surfaces thoroughly as required to produce a uniformly smooth surface, always sanding in the direction of the grain, except do not sand wood which is designed to be left rough.
- B. No coarse-grained sandpaper mark, hammer mark, or other imperfection will be accepted.
- C. Fill cracks in existing wood trim with an approved filler material. Sand smooth to match existing lines and profile prior to painting.

END OF SECTION 06200

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SECTION 07200 - INSULATION

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 - WORK INCLUDED

- A. Furnish and install blanket wall insulation to replace existing on a unit price basis.

1.3 - RELATED WORK SPECIFIED ELSEWHERE

- A. Gypsum Wallboard is specified in Section 09250.

PART 2 - PRODUCTS

2.1 - GENERAL REQUIREMENT

- A. All batt, blanket, and fill materials specified in this Section shall conform to the requirements of ASTM E84 as follows:
 - 1. Where exposed as installed in rooms or spaces, including attics, and crawl spaces, shall have a flame spread rating of 25 or less and a smoke-developed rating of 450 or less.
 - 2. Where concealed as installed shall have a flame spread of 75 or less and a smoke-developed rating of 450 or less.

2.2 - MATERIALS

- A. Thermal insulation for all replacement exterior wall insulation: “EcoTouch Pink Fiberglass” insulation, kraft-faced, R-15, as manufactured by Owens Corning.

PART 3 - EXECUTION

3.1 - INSTALLATION

- A. Install batt insulation between studs of all replacement construction to form an unbroken blanket. Fit insulation tightly around and behind obstructions. Install tightly edge to edge.
 - 1. Where there is plumbing in exterior walls, install insulation only on the cold side of the piping; do not install insulation on the warm side of the piping.

END OF SECTION 07200

SECTION 07300 – ASPHALT SHINGLE ROOFING SYSTEM

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 - SCOPE OF WORK

- A. Provide all materials, labor, equipment, and services necessary to furnish, deliver and install asphalt shingle roofing and related work as required by the Drawings and/or herein specified, generally as follows:
 - 1. Complete removal and replacement of existing roofing system and all accessories down to existing plywood sheathing at all buildings.
 - 2. Installation of new architectural asphalt shingle roofing system, including new shingle underlayment, ice & water membrane flashing, new roof vent/exhaust caps, pipe vent boots, ridge vents and all aluminum flashing and step flashings.
 - 3. Replacement of roof drip edges.
 - 4. Replacement of wood rake and fascia.
 - 5. Increase attic insulation at all apartment buildings.
 - 6. Replacement of existing soffit panels. At Apartment buildings, replace existing soffit vents + cut new vent slot openings in existing plywood and install new rigid strip venting. Increase venting at all apartment buildings.
 - 7. Replacement of all gutters, downspouts, and splash blocks.

1.3 - RELATED WORK SPECIFIED ELSEWHERE

- A. Section 07630 – Gutters and Downspouts (gutters, downspouts, splashblocks, gutter covers).
- B. Section 07900 – Sealants.

1.4 - REFERENCES

- A. The National Roofing Contractors Association Roofing and Waterproofing Manual,

"Steep Roofing" section, is hereby incorporated by reference. Contractor shall be familiar with this reference, and a copy shall be on the job.

- B. Follow roof shingle manufacturer's recommendations unless they are less stringent than these specifications. If roof shingle manufacturer's recommendations prohibit parts of these Specifications, notify Architect.

1.5 - SUBMITTALS

- A. Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections especially the Section 01400-Submittals section. If an item is installed without this written approval the contractor will remove it and replace it with an acceptable item at their own expense and without any additional time.
- B. Provide shop drawings, data and selection choices for all items listed in Part-2 Products of this specification. Submittals are required for all items listed under Part-2, Products of this specification which includes, but is not limited to the following:
 - 1. Asphalt Shingles.
 - 2. Roofing Felt.
 - 3. Starter Strip Shingles
 - 4. Ice & Water membrane.
 - 5. Ridge Roof Vent.
 - 6. Roof Cement.
 - 7. Roofing Nails.
 - 8. Drip Edges.
 - 9. Step Flashing.
 - 10. Aluminum Flashing.
 - 11. Vent Pipe Boots.
 - 12. Exhaust/vent hood caps.
 - 13. Sample of Warranty applicable to this project.
- C. Samples: Submit physical samples of the following:
 - 1. Asphalt shingle sample board.
- D. Certificate: Submit manufacturer's certification that roofing system specified in this section will meet or exceed the requirements within this section.
- E. Manufacturer's Literature: Material description and recommended installation procedures for each one of the products listed within this section.

1.6 - DELIVERY, STORAGE & HANDLING

- A. Deliver materials with manufacturer's labels intact and legible.

- B. Deliver materials in sealed packages with Underwriters Laboratories, Inc. labels.
- C. Store materials on raised platforms and protect with coverings at outdoor locations.
- D. Do not stack bundles of shingles more than four (4) high.
- E. Store rolled goods on end.

1.7 - WARRANTY - ASPHALT SHINGLE SYSTEM

- A. **Manufacturer Defect Coverage:** The asphalt roof shingle shall be guaranteed against manufacturer's defects for a period of 50 years non-prorated minimum by the manufacturer.
- B. **Wind Warranty Coverage:** Manufacturer's term coverage of 15 years minimum for 130 mph.
- C. **Algae Warranty Coverage:** Manufacture's term coverage of 25 years minimum stain free.
- B. **Warranty items to include,** but not be limited to, base sheets, inter ply layers and cap sheets with appropriate roof coatings and asphalt material between layers when required per manufacturer's installation requirements.
- C. **The Contractor shall provide to the Owner a ten (10) year (NDL) "No Dollar Limit"** for labor and materials. Period of guarantee is from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 - ASPHALT ROOF SHINGLES

- A. **Architectural Asphalt Shingles:**
Self-sealing "Architectural" composite style fiberglass shingles, UL Class "A", Standard Weight: Mineral-surfaced, self-sealing, architectural laminated, fiberglass strip shingles complying with ASTM D 3018, bearing UL Class "A" external fire exposure label and UL "Wind Resistant" label, meeting CT Building Code "Basic Wind Speed" chart requirements or better, with thirty (30) year warranty. Color, texture, and style as selected.
- B. **Single Source:** All shingle, underlayment and ice/water shield membrane materials are to be from a single manufacturer.
- C. **Basis of Design:** "GAF Timberline HDZ" (algae resistant), weight minimum 240

pounds per square (100 square feet), color selected by architect. Subject to compliance with requirements of the Contract, equal products from one of the following manufacturers may also be acceptable:

1. Certaineed
2. Owens-Corning
3. Tamko

2.2 - ACCESSORY MATERIALS

- A. Shingle Underlayment: Manufacturer's recommended fiberglass-reinforced asphalt-saturated roofing felt underlayment conforming to the requirements of ASTM D226, Type 1, or ASTM D4869, Type 1, and manufactured for use as fiberglass-asphalt shingle underlayment.
 1. Manufacturer: "GAF High Traction Synthetic Roof Felt" or equivalent by manufacturer roof shingles provided.
- B. Ice & Water Membrane Flashing: Install at all eaves, valleys, sidewalls and roof penetrations: Install in accordance with the latest version of the Asphalt Roofing Manufacturer's Association (ARMA) "Residential Asphalt Roofing Manual", and the Connecticut State Building Code. Lap per manufacturer's instructions. Penetrations to have minimum 36" square membrane centered on penetration where possible. Extend up sidewalls minimum 8"
 1. Manufacturer: "GAF Weather Watch Mineral Surfaced Leak-Barrier" or equivalent by manufacturer of roof shingles provided.
- C. Eave/Rake Starter Strip: Install roof shingle manufacture's standard strips at all locations to meet warranty requirements minimum and wherever noted on drawings.
- D. Ridge Vent: Shingle-over Design.
 1. Manufacturer: "GAF Cora Exhaust Vent for Roof Ridge" or equivalent by manufacturer of roof shingles provided.
- E. Roof Cement: Trowel grade consistency plastic roof cement. Complying with ASTM D 4586.
 1. Manufacturer: "GAF Matrix 203" or equivalent by manufacturer of roof shingles provided.
- F. Nails: Fasten shingles with 11 gauge barbed electro-galvanized nails with 3/8" diameter heads of sufficient depth to penetrate decking 3/4". Complying with ASTM F1667-03. Install six (6) nails per shingle.
- G. Aluminum Drip Edge at Rakes & Fascia: Style F-5 (3" wide x 3/4" deep fascia with 3/4" projection and 1/4" lip); minimum .024" thick pre-finished aluminum.
 1. Manufacture: "Berger Building Products" or approved equal. Furnish in 8' or

10' lengths. Color chosen by Architect.

- H. Step Flashing: Install 4"x4"x8", 26 ga. (.016" thick), galvanized steel step flashing where needed. Replace all existing wherever encountered. Lap pieces 2" and set in roof cement.
 - 1. Manufacturer: "Gilbraltar Co." or equal. Exposed flashing will have a color to be chosen by Architect.
- I. Aluminum Flashing: Install .024" minimum thick aluminum. Lap pieces 2" and set in roof cement. Color chosen by Architect.
 - 1. Manufacturer: "Berger Building Products" or equal. Exposed flashing will have a color to be chosen by Architect.
- J. Vent Pipe Boots: Replace all existing vent pipe boot flashings with new integral boots featuring a leak proof self-sealing elastomeric collar, stamped aluminum base.
 - 1. Manufacturer: IPS Roofing Products or equal.
- K. Bathroom Exhaust Fan Caps: Replace all existing roof mounted exhaust vent caps with new. Provide and install to match (field verify unit and duct sizes). Reconnect to existing duct.
 - 1. Manufacturer: "Broan-NuTone LLC", model 634 LLC or equal
- L. Auxiliary Products: Provide and install all accessories for flashing miscellaneous roof penetrations and other materials mounted to roof. Such products shall be manufactured by the shingle manufacturer or recommended by them and compatible with the shingle manufacturer's warranty.

PART 3 - EXECUTION

3.1 - PREPARATION

- A. Assure the surfaces to which shingles are to be applied are uniform, smooth, sound, clear, dry and free of irregularities. Do not start shingle installation until all unsatisfactory conditions are corrected. The installation of shingles shall represent the acceptance of existing conditions by the installer.
- B. When the outside temperature is expected to be 40 degrees or below, the shingles shall be warmed sufficiently to prevent cracking. All cracked or damaged shingles shall be discarded as debris.

3.2 - DEMOLITION

- A. Where specifically shown on the Drawings, remove existing layer(s) of asphalt shingle,

wood shake starter course, underlayment, metal drip and rake edges, etc., down to the existing sheathing. Avoid damage to the existing sheathing. Replace any loose or missing nails.

- B. Protect the public, the building, and the landscaping from damage from materials removed from the roof. Use plywood chutes or other approved method.
- C. All demolition materials shall be legally disposed of off-site, at the Contractor's expense including all disposal fees and permits.
- D. Inspect all existing sheathing, fascias, soffits and framing for damage (rotting, delaminating, structural impairments) and notify the Architect in writing.

3.3 - INSTALLATION

- A. Coordinate shingle installation work with flashings.
- B. General: Install asphalt shingles according to manufacturer's written instructions, recommendations in ARMA's "Residential Asphalt Roofing Manual," and asphalt shingle recommendations in NRCA's "The NRCA Roofing and Waterproofing Manual."
- C. Install starter strip along lowest roof edge, consisting of an asphalt shingle strip with self-sealing strip face up at roof edge.
 - 1. Extend asphalt shingles to edge of metal drip edge.
 - 2. Install starter strip along rake edge.
- D. Apply materials generally in the following order:
 - 1. Apply eave flashings. At bottom edge turn eave flashing material over and down wall to the bottom of the gutter or to the bottom of the metal drip or fascia. Install eave flashings to extend from the eaves up the roof slope to a point 24" or more inside and above the projected interior plane of the exterior wall of the building, measured on the slope or to a dimension shown on drawings, whichever is greater. At dormers valleys. Apply eave flashing material up valleys, 33" to both side of valleys. If roof slope is less than 6:12, extend eave flashing material 48" to both sides of valleys. Lap flashing 6", and seal laps.
 - 2. Apply metal fascia or metal eave drips.
 - 3. Apply underlayment over all roof surfaces, including over eave and valley flashings down to the edge. Lap joints 12", the upper over the lower. Apply patches where underlayment is cut, broken, or fitted around penetrations.

Tape patches and all penetration and edge joints.

4. At valleys, weave underlayment as instructed by manufacturer, for “closed-cut” valleys place one ply of Ice & Water Membrane Flashing minimum 36 inches wide, centered over valleys, lap joints 6” minimum. Follow instructions of shingle and waterproofing membrane manufacturer.
5. At intersections between sloped roof and walls, install metal step flashing as recommended by SMACNA. Install Ice & Water Membrane Flashing extending 18” vertically and 18” horizontally. In addition to metal step flashings. Temporarily remove as needed vinyl siding to allow for flashing installations then reinstall siding materials.
6. At eaves for which gutters are indicated, install gutter hangers. Install gutter hangers before installing shingles, so that hangers are under shingles. Install gutter hangers so that gutter will slope downward toward drains. If slope toward drains is not possible, notify Architect and modify installation as directed.
7. Install shingles as recommended by manufacturer. Start coursing at drip edge with manufacturer’s starter shingles. All shingles to have minimum of six nails per shingle, note that the use of staples will not be allowed. If the temperature and season at the time of installation are not such that self-sealing shingles will bond, warm them with hot air gun and press them to adhere self-sealing material, or apply mastic and press shingles into it to adhere them.
8. At ridges install ventilators as shown on the Drawings. Install asphalt ridge cap shingles over top of ventilators.
9. Make all shingles, including lowest courses and rake shingles, tight to the wind.
10. Follow manufacturer's instructions for installation of starter shingles to ensure that there are self-sealing strips under the butts of the lowest courses of shingles. This may require removing tabs from shingles. In addition to following manufacturer's and reference recommendations, set lowest two courses of shingles with full bed of roof cement between all layers.
11. In addition to following manufacturer's and reference recommendations, set rake shingles with full bed of roof cement between all layers, 12" wide.
12. If the shingles are not effectively self-sealed within 1 month of installation provide a bed of roof cement or "Blackjack" asphalt sealant to hold them.

13. Flatten all shingles which do not naturally lie flat, and cement them in place. Note that fiberglass shingles do not always flatten by themselves.

3.4 - EXTRA STOCK

- A. Asphalt Shingles: at the conclusion of the Work, the Contractor shall provide the Owner with a minimum of 2% of asphalt shingle used or minimum one (1) square (100 square feet), whichever is greater. Provide in unopened clearly labeled bundles.
- B. Aluminum Trim Coil: Provide one (1) 50 ft. coil of color and thickness used.

END OF SECTION 07300

SECTION 07460 - VINYL SIDING

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 - WORK INCLUDED

- A. Furnish and install new vinyl siding, including soffits and all accessories as shown on the Drawings.

1.3 - RELATED WORK SPECIFIED ELSEWHERE

- A. Sheathing Wrap is specified in Section 07150.
- B. Insulation is specified in Section 07200.
- C. Gutters and downspouts are specified in Section 07630.

1.4 - SUBMITTALS

- A. Submit manufacturer's full range of colors (standard and premium) for Owner's color selections.

1.5 - WARRANTY

- A. Provide a 50-year non-prorated warranty of material quality and color stability from selected manufacturer.

PART 2 - PRODUCTS

2.1 - ACCEPTABLE MANUFACTURERS

- A. Subject to compliance with the requirements of the Contract, provide "Carvedwood 44" as manufactured by Mastic. **No substitutions will be entertained.**
 - 1. Colors: One (1) color will be selected for each individual building. Up to three (3) different colors will be selected.

2.2 - SIDING MATERIALS

- A. Solid vinyl siding, soffit, and accessories are extruded Poly Vinyl Chloride compound as defined in ASTM D3670, "Standard Specification for PVC Siding".
 - 1. All vinyl siding material shall have a flame spread rating of 20 or less.
- B. Horizontal siding panels shall be: Double-Four, 12'-0" length, 8" exposure. Provide weep holes in the shadow leg of the bottom panel, thus allowing the wall to "breathe" and also permit condensation and water vapor to escape from the wall.
- C. Soffit panels: Provide corrugated PVC soffit panels, perforated (ventilated) and non-perforated, where indicated on the Drawings. Provide panels from same manufacturer as horizontal siding. Color: match siding.
- D. Finish - Vinyl Siding shall be produced from PVC Compound containing quality color pigments to provide color throughout thickness of siding. Close control of color and gloss shall be maintained to provide for an attractive, weatherable surface.

2.3 - SIDING ACCESSORIES

- A. Provide standard or custom accessory and trim shapes as shown on the Drawings or as required.
 - 1. All accessories used with vinyl siding shall be produced from the same quality PVC compound as used for siding, by the same manufacturer.
- B. Gable End Vents: As manufactured by Ridgewood. Size to match existing. Color: White.
- C. Shutters: Louver design by Girardin Moulding, Inc., Windsor Locks, CT or approved equal. Size: match existing. Color: Black.

2.4 - FAN-FOLD INSULATION

- A. Polystyrene insulation, “Propink” fanfold insulation and related assembly components, as manufactured by Owens-Corning. Comparable products meeting the following performance characteristics may also be acceptable.

1. R-Value: 1.5
2. Water absorbsion: 0.50%
3. Water permeance(perm): 0.75

2.5 - MAILBOXES

- A. Product: Traditional Mailbox 4610, as manufactured by Salsbury.
1. Mounting: Mount box on new PVC mounting block at each unit front door; coordinate exact location in field with Owner.

2.6 - HOUSE NUMBERS

- A. Product: Prefinished (black) 3” high aluminum house numbers by Ives Hardware or approved equal.
1. Mounting: Numbers are required at each unit front door, coordinate exact location in field with Owner.

2.7 - COLUMN COVERS

- .A. Column covers: Premanufactured 2-piece PVC column covers sized to fit existing columns/posts. Color: white.

PART 3 - EXECUTION

3.1 - PREPARATION

- A. Before starting work, verify governing dimensions at building. Examine, clean, and repair, if necessary, any adjoining work on which this work in anyway is dependant for its proper installation.
- B. Carefully remove existing gutters and leaders from existing buildings.
- C. Install fan-fold insulation directly over sheathing wrap in accordance with the manufacturer's printed installation instructions.

3.2 - INSTALLATION

- A. Install vinyl siding in accordance with the requirements and recommendations of "Rigid Vinyl Siding Application", published by the Society for the Plastics Industry, and manufacturer's printed installation instructions.
- B. Arrange all existing exterior cable/dish TV to be located directly underneath the new vinyl siding.
- C. Install other accessories such as mailboxes and house numbers in accordance with the selected manufacturer's printed installation instructions.

END OF SECTION 07460

SECTION 07600 - FLASHING AND SHEET METAL

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 - RELATED WORK SPECIFIED ELSEWHERE

- A. Gutters & leaders are specified in Section 07630.
- B. Sealants are specified in Section 07900.

PART 2 - PRODUCTS

2.1 - FLASHING MATERIALS

- A. For use in Contact with Concrete or Concrete Masonry Units: Galvanized sheet metal. Thickness: 24 gauge.
- B. For all other uses: Aluminum, .027" thick.

2.2 - ACCESSORIES

- A. Fasteners: Use broad-head deformed shank roofing nails for nailing, and use screws, pop-rivets, and other fasteners where appropriate. Use double galvanized or stainless-steel fasteners to fasten galvanized steel. Use double galvanized or aluminum fasteners to fasten aluminum. Use of improper fasteners shall be cause for rejection of the work.
- B. Solder: ASTM B32, of grade recommended for metal being specified.
- C. Sealant: See Section 07900.

PART 3 - EXECUTION

3.1 - INSTALLATION, GENERAL

- A. Unless shown otherwise, installation of sheet metal work shall conform to the recommendations of "Roofing and Waterproofing Manual", published by the National Roofing Contractors Association (NRCA), and "Architectural Sheet Metal Manual", published by Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA).
- B. Wherever metal comes in contact with dissimilar metals, insulation shall be provided between same consisting of a layer of 15 lb. saturated roofing felt bonded in mastic, or the surfaces in contact shall be given a coat of bituminous base paint.

END OF SECTION 07600

SECTION 07630 - GUTTERS AND LEADERS

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 - RELATED WORK SPECIFIED ELSEWHERE

- A. Vinyl siding is specified in Section 07460.
- B. Flashing and sheet metal are specified in Section 07600.

1.3 - REFERENCES

- A. Unless shown otherwise, standard details shall conform to the recommendations of "Architectural Sheet Metal Manual", published by Sheet Metal and Air Conditioning Contractors' National Association, Inc.

PART 2 - PRODUCTS

2.1 - GUTTERS

- A. Gutters shall be an "OGEE" or "K" style gutter fabricated from 0.032" thick aluminum. Finish shall be baked on enamel. Color shall be white.
- B. All miscellaneous items shall be the manufacturer's standard including end caps, corners, fasteners, gutter straps, and hidden support brackets.

2.2 - LEADERS

- A. Leaders shall be a rectangular, corrugated leaders fabricated from 0.032" thick aluminum. Finish shall be baked on enamel. Color shall be white.

PART 3 - EXECUTION

3.1 - GENERAL REQUIREMENTS

- A. All metal work shall be fabricated and installed in accordance with details shown on the Drawings unless otherwise recommended by the gutter and leader manufacturers. Details shown on the Drawings shall be considered typical and shall apply for all similar conditions or features where not otherwise shown. Where details are not shown and typical details do not apply, details of the work shall comply with reference standard stated in 1.3 above.
- B. Adequate provisions shall be made in all metal work to compensate for thermal expansion and contraction. Provide expansion joints where required as directed by the material's manufacturer.
- C. Wherever metal comes in contact with dissimilar metals, insulation shall be provided between same consisting of a layer of 15 lb. saturated roofing felt bonded in mastic, or the surfaces in contact shall be given a coat of bituminous base paint or elastic cement.
- D. Surfaces upon which metal will be applied shall be made smooth, free from projections and depressions, and surface irregularities.
- E. All fasteners proposed shall be corrosion and rust resistant and electrolytically compatible with material being fastened.

3.2 - INSTALLATION

- A. Install gutters at all roof eaves and elsewhere as indicated. Slope all gutters not less than 1/16" per foot toward downspouts locations. Place gutter to allow snow and ice to slide clear; vary with roof pitch. Install gutters with adjustable hangers fastened directly to the roof sheathing under the shingles. Typical spacing to be 3'-0" o.c., maximum. Reduce spacing to 2'-0" o.c. maximum on north exposure and other areas where ice and snow may accumulate. In all instances, hangers shall be uniformly spaced.
- B. Secure leaders plumb by use of matching strap anchors. Fasten strap anchors using corrosion resistant machine driven screws of sufficient length to fully penetrate exterior sheathing. Secure at top, bottom, and at a maximum spacing of 8'-0" o.c. or minimum of two anchors per piece. Provide eave offsets and drainage shoes where required.

- C. Provide expansion joints at 40'-0" maximum. At expansion joints, provide concealed joint covers. Prior to installing joint covers, provide a bead of caulking on each side of the expansion joint.
- D. All work shall be installed so that it is water-tight and free from visible waves, buckles, cracks, tool marks, dirt, stain and other defects of materials and workmanship which would affect its strength, durability and appearance.

END OF SECTION 07630

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SECTION 07900 - SEALANTS

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 - WORK INCLUDED

- A. Caulk all openings in exterior walls, including doors, windows, mechanical openings, and control joints and elsewhere as shown. Caulk both inside and outside.
- B. The required interior applications of sealant work include, but are not necessarily limited to the following general locations:
 - 1. Sound sealed and waterproof joints.
 - 2. Joints between wood frames or wood trim and other finished surfaces.

1.3 - RELATED WORK SPECIFIED ELSEWHERE

- A. Finish Carpentry is specified in Section 06200.
- B. Vinyl Replacement Windows are specified in Section 08550.

1.4 - SUBMITTALS

- A. Submit manufacturer's color charts for color selection.

1.5 - DELIVERY, STORAGE AND HANDLING

- A. Do not retain at the job site material which has exceeded the shelf life recommended by its manufacturer.

1.6 - PROJECT/SITE CONDITIONS

- A. Apply sealants only to dry surfaces.

- B. Do not apply sealants when temperature is below 40 degrees F. or less than 46 degrees F. and falling.

PART 2 - PRODUCTS

2.1 - MATERIALS

- A. General Exterior sealant: 1-Part type silicone joint sealant complying with Federal Specification TT-S-001543A, Dow Corning 790 Silicone Building Sealant. Equal products by Pecora or General Electric are also acceptable. Color: As selected by the Owner's Representative.
- B. Sealant for use in filling interior cracks at door and window trim, countertops, wood base, etc.: Acrylic Latex Caulk (ASTM C384) suitable for painting. Color: white.
- C. Joint Backing: Rod stock compatible with sealant being used, size as required.

PART 3 - EXECUTION

3.1 - INSPECTION

- A. Prior to application of sealants, the Contractor shall examine the surfaces of the work to which sealants will be applied. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.2 - PREPARATION

- A. Bonding surfaces on both new and remedial jobs must be clean, dust and frost free. Solvent wipe the surfaces using a clean oil-free rag saturated with solvent compatible with surface being cleaned, as recommended by sealant manufacturer. Do not flood surfaces with more solvent than necessary.
- B. Do not clean surfaces with soap, detergent or any water-based cleaner. Make sure that apparently clean surfaces are not covered with a thin film of construction dust.

3.3 - APPLICATION

- A. Apply joint backing to joints open in back or over 1/2" deep. Compress backing so as to form a firm stop which will resist sealant pressure.
- B. Sealants shall be installed with either a hand operated or air-operated caulking gun with sufficient pressure to completely fill voids and joints solidly. Extreme care shall be taken to prevent smearing onto adjacent surfaces. Material shall be heated as recommended by the manufacturer. Joints shall have a neat, uniform, slightly concave appearance.
- C. All sealant work shall strictly conform to the sealant manufacturer's technical instructions for surface preparation and application procedures to accomplish a weathertight seal.
- D. Tool joints within 10 minutes of application. If masking tape is used, remove tape before a surface skin begins to form.
- E. After applying the sealant and after a "skin" has formed, do not disturb the joint for 48 hours.

3.4 - REMEDIAL WORK AND LIMITATIONS

- A. Should sealant not completely fill or fully adhere to intended surfaces on first pass, remove bead and reapply. Do not apply successive beads to fill opening or obtain adhesion.
- B. If cleaning solvents stain, abrade, or otherwise damage adjacent materials or surfaces, all repair, replacement, etc. shall be performed at no additional cost.

3.5 - CLEAN UP

- A. Completely remove excesses, spillage, "tails", and properly dispose of same; use solvents

recommended by manufacturer of sealant being applied.

- B. Select solvents that are compatible with surfaces being cleaned.

END OF SECTION 07900

SECTION 08100 – FIBERGLASS DOORS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 SCOPE OF WORK

- A. Provide and install factory finished, EnergyStar listed fiberglass doors for all apartment exterior doors and/or as noted on plans. Replace complete door frame and threshold.

1.3 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 06100 - Rough Carpentry
- B. Section 07900 - Sealants
- C. Section 08710 - Finish Hardware
- D. Section 09900 - Painting

1.4 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 1. ASTM E 90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.
 2. ASTM E 283 – Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Difference Across the Specimen.
 3. ASTM E 330 – Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
 4. ASTM E 331 – Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
 5. ASTM E 413 – Classification for Rating Sound Insulation (STC).
 6. ASTM E 547 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference.
 7. ASTM E 1300 – Standard Practice for Determining Load Resistance of Glass in Buildings.
 8. ASTM E 1332 – Standard Classification for Determination of Outdoor-Indoor Transmission Class.

9. ASTM E 1886 – Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missiles and Exposed to Cyclic Pressure Differentials.
 10. ASTM E 1996 – Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.
 11. ASTM E 2235 – Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods.
- B. Environmental Protection Agency and Department of Energy:
1. Energy Star Program Requirements Product Specification for Residential Windows, Doors, and Skylights.
- C. Code of Federal Regulations:
1. CFR 1201 Part 2 – Safety Standard for Architectural Glazing Materials.
- D. Florida High Velocity Hurricane Zone (HVHZ) Testing Application Standards:
1. TAS 201 – Impact Test Procedures.
 2. TAS 202 – Criteria for Testing Impact and Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
 3. TAS 203 – Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.
- E. National Accreditation & Management Institute (NAMI)
- F. National Fenestration Rating Council
1. NFRC 100 – Procedure for Determining Fenestration Product U-Factors.
 2. NFRC 200 – Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance (VT) at Normal Incidence.
 3. NFRC 400 – Procedure for Determining Fenestration Product Air Leakage.
- G. National Fire Protection Association
1. NFPA 252 – Standard Methods of Fire Tests of Door Assemblies
- H. Underwriters Laboratory
1. UL 10B – Standard for Fire Testing Door Assemblies.
 2. UL 10C – Standard for Positive Pressure Fire Tests of Door Assemblies.

1.5 SUBMITTALS

- A. Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections especially the Section 01400-Submittals section.

- B. Provide shop drawings, data and selection choices for all items listed in Part-2 Products of this specification. No item installed will be accepted without written approval of the Architect only, no verbal approval will be acceptable. If an item is installed without this written approval the contractor will remove it and replace it with an acceptable item at their own expense and without any additional time.
- C. Shop Drawings: Submit manufacturer's shop drawings, indicating dimensions, construction, component connections, anchorage methods and locations, accessories, hardware locations, and installation details.
 - 1. Submit manufacturer's standard physical color samples to Architect for selection.
 - 2. Submit sample warranty for type of door system and finish.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum ten (10) years production.
- B. Installer Qualifications: Minimum two (2) years' experience on projects of similar size and acceptable to window manufacturer.
- C. Source Limitations: Obtain window units from one manufacturer through a single source.
- D. U-values and SGHC-values:
 - 1. All doors must be Energy Star qualified.
 - 2. Opaque Doors: U value of 0.17 maximum, (R-5.88).
 - 3. Less than Half Lite: U value of 0.25 maximum, (R-4). SHGC value of 0.25 max.
 - 4. Greater than Half Lite: U value of 0.30 maximum, (R-3.33). SHGC value of 0.30 maximum.

1.7 WARRANTY

- A. Pre-Colored Factory-Finished Fiberglass Doors
 - 1. 10-year limited warranty.
 - 2. 2-year limited warranty on unfinished jambs and brickmold.
- B. Pre-Stained Wood Grain Factory-Finished Fiberglass Doors
 - 1. 2-year limited warranty.
 - 2. 2-year limited warranty on unfinished jambs and brickmold.
- C. Smooth Surface Fiberglass Doors
 - 1. Lifetime limited warranty on all materials, including door slab, sidelite slab,
 - 2. Lifetime limited warranty on clear insulated glass warranty against seal failure

3. Lifetime limited warranty on primed jambs and brickmold.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Basis of Design:
Therma-Tru Corp.
1750 Indian Wood Circle
Maumee, OH 43537

2.2 FIBERGLASS ENTRY DOORS

- A. Fiberglass Entry Doors: Provide and install complete entry systems which includes, but not limited to door, frame, hinges, sill pan, membrane flashing, weather stripping, threshold and other components required for a complete installation.
 1. Pre-hung insulated fiberglass doors: “Smooth Star Door System” as manufactured by Therma-Tru Doors or approved equal.
 1. Front Living Room Door (FG-1): Model # S296
 2. Rear Bedroom Door (FG-2): Model # S210
- B. Additional Doors Manufacturers: Others meeting the minimum specifications will be acceptable include, but is not limited to the following:
 1. Jeld-Wen
 2. ProVia
 3. Pella
- C. Frames for Fiberglass Doors: Provided and install door manufacturer’s standard aluminum clad wood composite frame and components at all applications.
- D. Thresholds: Provide and install door sills as part of door assembly. Contractor required to provide and install any Sill Extenders from manufacturer as needed per field conditions.
 1. Non-Handicapped Unit doors: Therma-Tru “Composite Adjustable Sill”.
 2. Community Building doors and Handicapped Unit doors: Therma-Tru “Public Access Sill with Thermal Break”.
 3. Aluminum Finish: Mill
 4. Wood-Grained composite cap: Standard “Lightwood” economy series.

2.3 SILL PAN

- A. All exterior doors to have sill pan system, installed per manufacturer instructions for given application. Provide pan available from door manufacturer or a pan recommended by the door manufacturer. If none is recommended provide one by the following companies.
 - 1. Acceptable Manufacturers: Include but are not limited to the following:
 - 1. Jamsill Guard, Talent, Oregon. Website: www.jamsill.com
 - 2. Sure-Sill, Austin, Texas. Website: www.suresill.com

2.3 GLAZING

- 1. Therma-Tru factory glazed clear-tempered Energy Star rated glass.
 - a. Divided Lites: Factory installed contour style Grilles-Between-Glass (GBG).

2.4 ACCESSORIES

- A. Weatherstripping: Therma-Tru compressible removable type. Color: Stone.
- B. Door Bottom: Therma-Tru “Kerf-Applied, Dual-fin, Dual-bulb” sweep. Color: Stone
- C. Corner Pads: Therma-Tru “Classic-Craft 7” pads. Color: Stone
- D. Door Rain Deflector: Therma-Tru “Rain Deflector”. Color: Stone.

2.5 HARDWARE

- A. Locksets and/or Deadbolt: All fiberglass and steel doors are to be factory prepared for installation of hardware and accessories as noted in the Hardware Schedule on the drawings.
- B. Hinges: 5-knuckle, ball bearing mortised 4” x 4” x 0.098 inch thick, self-aligning with non-removable pin.
 - 1. Furnished by the door manufacturer.
 - 2. Finish: Stainless Steel.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive doors. Notify Architect in writing any unacceptable conditions that would adversely affect installation or subsequent performance of the product. Do not proceed with installation until unsatisfactory conditions are corrected.

3.2 INSTALLATION

- A. Install doors and frames in full compliance with manufacturer written instructions and approved shop drawings.
- B. Anchor work securely to adjacent construction, adjust as required. Maintain alignment and compatibility with adjacent work.

3.3 FINISH

- A. All finishes are to be done at factory. All doors to be delivered to the site installation ready with only touch-up and repair to be done.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products prior to Substantial Completion in accordance with manufacturer's written recommendations.

END OF SECTION 08100

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SECTION 08120 – ALUMINUM STORM DOORS

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 - RELATED WORK SPECIFIED ELSEWHERE

- A. Vinyl Siding is specified in Section 07460.

1.3 - WORK INCLUDED

- A. Furnish and install combination storm/screen doors for exterior unit doors as shown on the Drawings and specified herein.

1.4 - DELIVERY, STORAGE AND HANDLING

- A. Deliver storm door to project site in undamaged condition.
- B. Store storm doors out of contact with ground.
- C. Keep storm doors under weathertight covering and protect against damage.

PART 2 - PRODUCTS

2.1- ACCEPTABLE PRODUCTS

- A. Provide self-storing prefinished combination aluminum storm/screen door, as manufactured by Larson.
 - 1. Model: # 146.
 - 2. Color: white.

PART 3 - EXECUTION

3.1 - INSPECTION

- A. Verify that the surfaces to receive storm doors are clean and free of debris.
- B. Do not proceed with installation until conditions are satisfactory.

3.2 - INSTALLATION

- A. The installer shall securely fasten door in place to a straight, plumb and level condition, without distortion of the door or door frame, and shall make final adjustments for proper operation and satisfactory weatherstrip contact and seal in accordance with the manufacturer's instructions.

3.3 - ADJUSTMENT AND CLEANING

- A. Make final adjustments for operation of sash in accordance with manufacturer's instructions.
- B. After installation, clean exposed surfaces to remove foreign matter and surface blemishes.

END OF SECTION 08120

SECTION 08550 - VINYL WINDOWS

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this section.

1.2 - WORK INCLUDED

- A. Provide insulating glass, double hung vinyl windows, complete with screens, in the sizes and locations shown on the Drawings.

1.3 - RELATED WORK SPECIFIED ELSEWHERE

- A. Rough Framing is specified in Section 06100.
- B. Vinyl Siding is specified in Section 07460.
- C. Sealants are specified in Section 07900.

1.4 - QUALITY ASSURANCE

- A. Windows/window performance shall comply with the requirements of the 2021 International Energy Conservation Code as published by the International Code Council and amended by the State of Connecticut.

PART 2 - PRODUCTS

2.1 - VINYL REPLACEMENT WINDOWS

- A. Double Hung Windows: Where shown on the Drawings, provide "Slimline" series vinyl double hung windows as manufactured by Harvey Building Products.
- B. Features and Accessories:
 - 1. Color: White.

2. Glazing: Provide low-E with argon gas insulating glazing for all sash.
3. Screens: Provide one (1) half size fiber mesh screen for each window.
4. Provide loose jamb extensions for each window, 3" size for field fit.
5. Interior: Manufacturer's standard finish. Color: white.
6. Interior hardware: Double locks and sash limit devices. Color: white.
7. Provide manufacturer's standard extension sills & headers, panning systems, etc. and any other accessories required to complete the installation. Color to match windows.
8. Windows must meet or exceed "Energy Star" requirements.
9. Provide tempered glazing units where required by the Connecticut State Building Code.

PART 3 - EXECUTION

3.1 - INSTALLATION

- A. Install windows in accordance with manufacturer's recommendations and instructions.
- B. As required for water tightness, provide and install continuous vinyl sections of profiles required to accomplish a watertight closure condition. Seal all joints with sealant. Color to match windows.
- C. Adjust sash for tight closure and easy operation.

END OF SECTION 08550

SECTION 09250 - GYPSUM WALLBOARD

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this Section.

1.2 - WORK INCLUDED

- A. Work of this section shall include all gypsum wallboard repair and replacement to be performed on a unit price basis.

1.2 - RELATED WORK SPECIFIED ELSEWHERE

- A. Rough framing is specified in Section 06100.
- B. Painting is specified in Section 09900.

PART 2 - PRODUCTS

2.1 - ACCEPTABLE MANUFACTURERS

- A. In general, specified products and systems are by U.S. Gypsum Co. Equivalent products and systems by National Gypsum Co., & Celotex Corp. are also acceptable.

2.2 - MATERIALS

- A. Gypsum Board: ASTM C36-78, tapered edge and square edge gypsum board. Use water-resistant gypsum board in bathrooms. Use fire rated gypsum board at unit separation walls. Board thickness shall match existing, or as otherwise shown on the Drawings.
- B. Edge & corner beads, and other required accessories:
 - 1. Corner beads: Paper covered metal type, equal to USG "Bead-X".

2. Casings: Vinyl concealed type typically, equal to U.S.G. P-1, abutting windows or at intersections of gypsum wallboard to dissimilar materials. No casings shall be exposed. Metal type may be used at locations not subject to wetness or condensation.
- C. Drywall screws:
1. For fastening gypsum board only to wood studs, use type S bugle head screws with rust resistant finish meeting ASTM C1002 in length recommended by manufacturer. Use galvanized screws with WR-GWB.
 2. For fastening gypsum wall board and any combination of cement board or plywood to wood studs, use type S-12 bugle head screws. Use galvanized screws with WR-GWB.
- D. Tape, compound and other required products:
1. Standard products by manufacturer of gypsum board.
- E. Acoustical Sealant: Butyl rubber base or water base acoustical sealant manufactured for the purpose by U.S. Gypsum Co. or approved equal.
- F. Other Materials:
1. Provide other materials, not specifically described but required for a complete and proper installation, as selected by the Contractor from the gypsum board manufacturer's list of recommended or acceptable products.

PART 3 - EXECUTION

3.1 - SURFACE CONDITIONS

- A. Examine the areas and conditions under which work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.2 - INSTALLATION

- A. If U.S. Gypsum products are used, install gypsum drywall according to "Gypsum Drywall Construction Handbook", latest edition, published by U.S. Gypsum Company. Also, conform to the requirements of ASTM C840 and Gypsum Association GA-216-96, Application and Finishing of Gypsum Board. Also conform to the requirements and recommendations of Gypsum Association GA-600-97, Fire Resistance Design Manual, Sound Control, Gypsum Systems, including Section III, Requirements for Fire Protection, and Section IV, Sound Control. Also conform to gypsum drywall system manufacturer's standards. Note that these designs stipulate use of acoustical insulation for certain designs and acoustical sealant at perimeter of walls and penetrations through walls, for all sound-rated construction. If specified standards require control joints not shown on the Drawings, notify Owner's Representative and install control joints at locations selected by Owner's Representative. Do not use water resistant gypsum board on ceilings. Do not use nails at any time.
- B. Make fire-rated partitions continuous from slab or from top of floor deck to bottom of floor or roof deck above.
- C. Use tapered-edge gypsum board for finish surfaces; use square-edge for backing board. Fasten gypsum board to all studs as per manufacturer's recommendations.
- D. Use casing beads at all butt transitions to dissimilar materials and/or as detailed on Drawings. Compound, tape and compound over bead. Feather out for smooth finish surface. Completely conceal bead.
- E. Use acoustical sealant in gypsum board unit separation walls to seal all cut-outs and all intersections with adjoining walls, ceiling, and floors.

- F. Finish fasteners and joints with drywall compound and tape. Apply at least 3 coats of compound over tape and heads of screws. Conform to the requirements of Gypsum Association Publications GA-214, Levels of Gypsum Board Finish, and GA-216-96, Application and Finishing of Gypsum Board. Unless specified otherwise, the level of gypsum board finish shall be Level 4.

3.3 - CLEANING UP

- A. In addition to other requirements for cleaning, use necessary care to prevent tracking gypsum and joint finishing compound onto floor surfaces.

END OF SECTION 09250

SECTION 09900 - PAINTING

PART 1 - GENERAL

1.1 - RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections, apply to work specified in this Section.

1.2 - WORK INCLUDED

- A. Paint all exposed previously painted interior surfaces (window stops, trim, stools, etc.) disturbed by the work of this Contract.
- B. Paint all new interior surfaces of gypsum wallboard replaced or repaired on a unit price basis. Painting of all gypsum wallboard repair/replacement shall lap existing painted surfaces by a minimum of two feet. If the repair/replacement is within two feet of an adjacent wall, painting shall extend to the corner or wall breakpoint.
- C. Scrape and repaint all existing exposed steel brick lintels with oil-based paint.

1.3 - DELIVERY, STORAGE & HANDLING

- A. Deliver all products to job site in manufacturers' unopened containers with seals unbroken and labels intact.
- B. Store products so as to minimize danger of fire and protect building surfaces from spills.

1.4 - PROJECT/SITE CONDITIONS

- A. Do not paint when temperature of air or surfaces being painted is below 40 degrees F. Do not apply epoxy paint when temperature of air or surfaces being painted is below 60 degrees F. Do not paint when atmosphere is damp, and do not paint when surfaces are damp, unless paint manufacturer states that paint is intended for such use.
- B. Do not paint unless lighting is adequate.
- C. Provide ventilation during painting and drying periods.

PART 2 - PRODUCTS

2.1 - MATERIALS

- A. Use zero VOC products of the types specified in schedule.
 - 1. If requested, submit formulations to Owner's Representative to demonstrate compliance with above requirements.
 - 2. Deliver all materials to job site in unopened containers, bearing names of manufacturer and contents.

2.2 - COLORS

- A. For interior surfaces, the Contractor shall match existing paint color and sheen using the Enfield Housing Authority's custom paint mix. Since it is expected that gypsum wallboard repair/replacement will be minimal, the EHA shall supply the finish paint at the Contractor's request. The Contractor shall be responsible for providing a compatible primer paint product.
- B. Exterior brick lintels being repainted may be painted black or grey.

PART 3 - EXECUTION

3.1 - INSPECTION

- A. Examine all surfaces to receive paint.
 - 1. If surfaces are not fit to receive paint; scrape, brush, or remove unsatisfactory materials by mechanical means, then clean and prepare surfaces for painting operation. Follow manufacturer's instructions concerning surface suitability.
- B. The start of work on any surface shall constitute acceptance of the condition of that surface.

3.2 - PREPARATION

- A. Broom-clean entire area before painting.
- B. In general, clean surfaces to be painted.

- C. Scrape away loose paint and remove rust from all existing metal brick lintels. Notify Architect if, after preparation, structural integrity of any brick lintels appears to be in question.
- D. Sand and fill rough surfaces, which are not intended to be rough. Spackle interior holes and cracks. Putty fastener holes after applying prime coat.
- E. Seal knots and pitch spots. Wash sap and pitch from surface, and apply Western Pine Association Formula WP-578 sealer or equivalent as recommended by selected manufacturer.
- F. Protect adjacent surfaces and items. Remove or protect such items as electrical plates and hardware. After painting, reinstall items removed for protection.
- G. On galvanized metal products scheduled to be painted, remove factory applied stabilizers using solvent, brush blasting or chemical treatment as required.

3.3 - APPLICATION

- A. The specified number of coats of paint in the schedule is based on the assumption that quality of paint, opacity of pigments, and quality of workmanship will be good. If Contractor disputes scheduled systems, notify Owner's Representative in writing before starting work.
- B. Use products as packaged, unless manufacturer specifically directs thinning or other alteration for proper application. Mix all products thoroughly before, and regularly during application.
- C. Follow manufacturer's directions for millage thickness application and rate of coverage.
- D. Apply paint evenly. Produce uniform surfaces. Avoid runs, sags, brush or roller marks, "holidays", differences in sheen or color, and other blemishes.
- E. If specified number of coats is not sufficient to satisfy requirements specified in D. above, as adjudged by Architect, apply additional coats as required to do so.
- F. Brush paint into cracks and seams. Cut straight, neat edges.
- G. Do not allow paint to get on adjacent surfaces. Clean up spills and spatters as soon as

possible, and no later than end of same day.

- H. Allow each coat to dry as recommended by manufacturer before applying following coat.
- I. Between coats, trowel in place drywall compound to cover defects in surface and sand smooth to match adjacent surfaces. Reprime those areas.
- J. At substantial completion, all newly painted surfaces shall be clean. If painted surfaces cannot be uniform, rectify condition by cleaning, or repaint them in accordance with 3.2 and 3.3 of this specification section.

3.4 - SCHEDULE

- A. Paint all new exposed interior gypsum wallboard surfaces and any other existing interior surfaces disturbed by the work of this Contract.
- B. Scrape and repaint all exterior metal brick lintels.
- C. Schedule by surfaces. The following schedule is based on Sherwin Williams paint products.
 - 1. Exterior Ferrous Metal:
 - Primer: 1 coat Sherwin Williams "Super Paint" Exterior Multi-Surface Primer & Sealer.
 - Finish: 2 coats Sherwin Williams "Super Paint" Exterior Satin Enamel.

2. Interior Gypsum Wallboard Surfaces:

Primer: 1 coat Sherwin Williams "Super Paint" Drywall Primer & Sealer.

Finish: 2 coats Sherwin Williams "Super Paint" Eggshell Latex Enamel in the Enfield Housing Authority's custom mix color.

3. Interior Wood Trim scheduled for opaque finish:

Primer: 1 Coat Sherwin Williams "Super Paint" Drywall Primer & Sealer.

Finish: 2 coats Sherwin Williams "Super Paint" Eggshell Latex Enamel in the Enfield Housing Authority's custom mix color.

4. Other Surfaces:

Follow master specification of selected paint manufacturer for three (3) coat work in normal service area.

END OF SECTION 09900

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SECTION 16010 - GENERAL PROVISIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections apply to work specified in this section.

1.2 SCOPE

The work covered by this section includes the materials, labor, methods, workmanship and general requirements that shall apply to the work covered by the other Sections of this Division which follow.

- A. Contractor shall be responsible for all cutting and patching as required for their work, beyond the demolition shown on the architectural plans.

1.3 RELATED WORK SPECIFIED ELSEWHERE

- A. Cutting & Patching is specified in Section 01500.
- B. Painting is specified in Section 09900.

1.4 DRAWINGS AND COORDINATION

- A. Drawings accompanying these specifications show the general layout and much of the details, however, they do not show every fitting, offset, conduit, etc. and the Contractor is to furnish all fittings and offsets and other parts necessary to make this installation complete and left in good operating condition.
- B. Drawings are based, in general, on the particular type and make of equipment named by the specifications, and therefore, wiring diagrams, etc. of various systems are not final subject to receipt of shop drawings of the system.
- C. Conduits and accessories, the location and arrangement of which must be approved, shall not be installed until the equipment is approved, and the entire assembly coordinated.

- D. Contractor shall install work as closely as possible to layout shown, but he shall make, without extra charge, any changes in the routing of conduit as necessary to meet job conditions and clear equipment and services of other trades shown on other drawings. Locations of services are approximate and subject to modifications required by conditions.
- E. The right to make any reasonable changes in locations of conduit and equipment up to time of installation is reserved by the Owner's Representative without involving any additional expense to the Owner.
- F. Methods of running conduit and making connections shall be in accordance with best practices, and in all cases satisfactory to the Owner's Representative.
- G. Elevations shown are approximate and are for the Contractor's guidance. He must, however take his own measurements and be responsible for proper pitch and clearances.

1.5 EXAMINATION OF SITE

- A. Before submitting his bid, the Contractor shall visit the site with plans and specifications in hand and shall become thoroughly familiar with all conditions under which his work will be installed, since he will be held responsible for any assumption he may make in regard thereto, particularly where fitting new work to existing construction.

1.6 COORDINATION OF TRADES

- A. The Contractor shall become familiar with the work of all trades and shall coordinate the work in those areas where work of other trades are indicated. Work installed, making it impossible to install work of other trades because of lack of coordination is subject to removal, if required, at no additional cost to the Owner, such cost being fully borne by the Contractor making the improper installation including the cost of any cutting, patching or relocation of work by another Contractor. Coordinate all work with the other trades.
- B. Bidders, during the period of figuring the job for submission of bid, shall secure a complete set of Plans and Specifications for the project so that he will have a clear and concise understanding about the work he has in relation with those trades.

1.7 METHODS AND PROCEDURES

- A. The Contractor agrees to carry on the work in an orderly manner, and under the constant supervision of a competent foreman who shall be on the job at all times during the progress of the work.
- B. Carefully examine all plans and specifications and check them against the conditions under which the work is to be done and the Contractor shall assume all responsibility thereof.
- C. The Contractor is responsible for keeping himself advised of construction details which have been issued and are available to him. He shall plan and install his work in a manner adapted to the construction called for and satisfactory to the Owner's Representative.
- D. The Contractor shall direct and supervise the progress of the work described and shall perform the work at the proper time so as not to unnecessarily delay any work being performed under another contract.

1.8 SUBSTITUTIONS

- A. Whenever an item is described or indicated by a specific make, model or figure number, it is understood that comparable articles of other manufacturers may be acceptable, but only provided they are equal in the opinion of the Owner's Representative and acceptable to Owner, and formal written approval thereof is obtained. If specification lists no equal or equal manufacturers, all substitutions shall be limited to those names only.

1.9 SHOP DRAWINGS

- A. Contractor shall submit for approval shop drawings of all equipment to be used in the installation in accordance with the General and Supplementary Conditions.
- B. General bulletins or catalogs will not be accepted as shop drawings unless the equipment on which approval is to be obtained is specifically marked, and all information pertaining to the item including dimensions where required for installation is included.

1.10 RECORD DRAWINGS

- A. Contractor is to keep an accurate record of any changes in locations, and conduit runs from those shown on the plans. Refer to the General Conditions for more complete instructions.

- B. In addition, shop drawings for any equipment, including wiring or piping diagrams, which is not finally installed in accordance with the original submittals, shall be corrected and resubmitted for approval in the same manner as required for original submissions.
- C. Contractor shall red line (2) clean sets of prints of all changes to the project at the end of the completed work and turn these sets over to the owner for final record.

1.11 CONTRACT STANDARDS

The following industry standards shall be considered as minimum requirements under this specification:

- A. **2022 CT State Building Code:**
 - 2021 International Building Code
 - 2021 International Existing Building Code
 - 2021 International Plumbing Code
 - 2021 International Mechanical Code,
 - 2021 International Energy Conservation Code
 - 2021 International Residential Code
 - 2020 NFPA 70 National Electrical Code
 - All CT Code Amendments
- B. **Connecticut Fire Safety Code:**
NFPA 101 National Fire Safety Code
Amendments to the CT Fire Safety Code
- C. **Connecticut Boiler Code:**
CGS Chapter 540, Sections 29-232 through 29-244

1.12 MATERIALS

- A. All equipment, materials, and workmanship, whether specifically described or shown, or whether implied, is to be new of latest model, first-quality, and grade satisfactory to the Owner's Representative. The Owner's Representative shall have the right to reject any part of the work in case equipment, material, or workmanship is not of satisfactory quality and the Contractor shall replace same with acceptable work at his own expense.
- B. No damaged equipment or material shall be replaced by the Contractor and used in the installation without first obtaining written approval from the Owner's Representative.

1.13 MANUFACTURER'S INSTRUCTIONS AND CODES

- A. In general, all equipment and conduit shall be installed in accordance with manufacturer's instructions and Local Codes having jurisdiction. If they conflict with contract requirements, Contractor shall obtain written instructions from the Owner's Representative before proceeding with the installation.
- B. Where the specifications exceed the manufacturer's or Code's minimum requirements, Contractor shall install equipment or conduit in accordance with the specifications.

1.14 PULL BOXES

- A. Provide pull boxes and cable ducts for the pulling, nesting, or concealment of wires or cables where shown and also where required and not shown.
- B. Boxes and covers shall be hot dipped galvanized and built of code gauge steel with angle iron supports and braces. Insulated racks shall be provided where required. Access shall be by means of removable screw covers.

1.15 GROUNDING

- A. Standards set forth by the N.E.C. relative to protective grounding and bonding of all equipment and services, shall be followed together with the rules and regulations of the Local Utility Company.
- B. Contractor shall be responsible for complete and proper grounding and bonding of all parts of the conduit system. Also connection to the Domestic water service piping.

- C. All grounding and bonding material shall be of copper or brass construction using Burndy, O.Z., T & B or approved equal grounding fittings where grounds are connected to service pipe, etc.

1.16 INSTALLATION REQUIREMENTS

- A. Secure all apparatus and materials supported on masonry with expansion bolts or equal materials.
- B. The location of outlets and appliances shown on plans are approximate. This electrical contractor will be responsible for the proper locations in order to make them fit with Architectural details and the work of other trades, and shall refer to such details, and confer with the Owner's Representative and other Contractors before installing his work.
- C. Before installing switches and outlets, Contractor shall in every instance refer to the Architectural plans and details and confer with the General Contractor for proper locations with reference to door swings, paneling, closets, etc.
- D. All electrical equipment such as junction and pull boxes, panelboards, switches, controls, and such other apparatus requiring maintenance and operation shall be made easily accessible.
- E. All feeders in pull boxes and cabinets and branch circuits in outlets and pull boxes having more than one circuit shall have fiber tag attached, designating the name or number of the circuit.
- F. Install and properly connect the proper number of wires to make the lighting, power, and auxiliary systems wiring complete ready for satisfactory service.
- G. Before ordering any material or doing any work the Contractor shall verify all conditions and measurements existing, and shall be responsible for the correctness of same, particularly fitting new work to existing construction. No extra charge or compensation will be allowed on account of differences between actual dimensions and measurements indicated on the drawings. In the case of discrepancies, consult with the Owner's Representative for clarification before proceeding with the work.

1.17 GUARANTEE

- A. In addition to any supplemental guarantees obtained from any equipment manufacturer, the Contractor shall guarantee the prompt replacement of any faulty section of his installation without cost to the Owner if indication thereof occurs within one (1) year of acceptance of equipment by the Owner.

1.18 DEBRIS REMOVAL

- A. Each contractor shall at all times keep the premises free from the accumulation of waste materials and rubbish caused by his operations and shall remove the waste materials and rubbish from the job site on a periodic basis.

1.19 DEMOLITION

- A. Provide all necessary demolition as called for on the drawings including any and all cutting and patching of the existing walls to properly install the new wiring and new panelboards, etc.
- B. Refer to the demolition notes on the drawings.

END OF SECTION 16010

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SECTION 16050 - BASIC MATERIALS & METHODS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections apply to work specified in this section.

1.2 SCOPE

The work covered by this Section includes all labor, materials, equipment and accessories to complete the installation of new exterior light fixtures specified hereinafter and/or shown on the Drawings.

PART 2 - PRODUCTS

2.1 OUTLET BOXES

- A. At every switch, outlet, or junction point of conduit, except as hereinafter noted, install a hot dipped galvanized box and cover suitable for the outlet it is to serve. Future boxes shall have blank cover plates. Boxes shall be sized to accommodate; - (1) structural conditions, (2) size and number of raceways and conductors entering, and (3) device or fixture for which required. Old work boxes shall be used in existing walls to allow snaking of new upgrade wiring.
- B. Outlet boxes in ceilings shall be of the bar support type with fixture stud or, where fixture stud is not required to support the fixture, standard boxes adequately secured to the ceiling construction.
- C. Provide suitable blank covers for all outlet boxes used as junction boxes or outlets not used.
- D. Provide outlet boxes in finished walls with plaster covers of proper depth so that outer edge is flush with finished surface. Covers to have lugs turning in.
- E. In masonry walls, outlet boxes for telephones, switches, receptacles, etc., shall be 4" square or larger as required.

- F. Ceiling outlet boxes where conduit is concealed shall be not less than 4" in diameter X 1-1/2" deep with plaster covers. Outlet boxes where conduit is exposed shall be screw jointed, not less than 6" in diameter to provide a seat for fixture canopy.
- G. Outlet boxes for switches and receptacles where run exposed shall be threaded hub type conduit FS or FD round corner covers as required.
- H. Outlet boxes for bracket fixtures where conduit is exposed shall be screw jointed, not less than 6" in diameter to provide seat for fixture canopy.
- I. Boxes shall be Appleton, General Electric, National Electric Products, Knight Electric Co. or approved equal in masonry construction, and in furred ceilings with two 1/8" X 3/8" bars of sufficient length to reach ceiling super structure and attach thereto with galvanized wire.

2.2 WIRE AND CABLE

- A. All wire used inside the building shall be copper Type THHN or as noted on the drawings. All wiring shall be solid conductor copper for #10 AWG and smaller and stranded copper for #8 AWG and larger. Fixtures shall be wired with Type TFN fixture wire. No aluminum or copper clad aluminum conductors will be allowed.
- B. Control wire for 24 volt service shall not be smaller than #16. For general wiring, no wire shall be less than #12 unless otherwise noted or specified.
- C. All wiring shall have the neutral conductor in white color. Grounded conductor shall be green in color. All ungrounded conductors shall be code colored wire.
- D. Wire shall be as manufactured by National Electric Products, General Electric, Anaconda, or approved equal.
- E. All wire shall be run in conduit. Use MC armored cable for all new circuits. At contractor's option where allowed by code, they may use "ROMEX" type cable for 15 and 20 amp circuit runs only. New feeders may be non metallic if installed with steel wall sleeves and fire caulking where penetrations occur in apartment attic separation walls.

2.3 WIRING DEVICES

- A. The following itemized list, is given for the purpose of conveying to the Contractor the quality and rating of wiring devices to be installed under the Contract. Any or all devices may be as manufactured by LEVITON, or approved equal to Bryant Electric Co., Arrow Hart & Hegeman, Harvey Hubbell. A complete itemized list of all devices must be submitted for approval before installation.
1. Convenience Outlets:
 - a. Duplex Grounded Receptacles (Specification Grade)- 15 amp, 125 volt, #5262-color per architect in white or ivory.
 - b. Duplex GFI Grounded Receptacle (Specification Grade) - 15 amp., 125 volt, #6598-I-GFI (white or ivory per architect.)
 2. Wall Switches (Specification Grade) (flush toggle switches, bakelite base, 20 amp., 120/277 volt): Color- White or Ivory as selected by the architect.
 - a. Single Pole - #1201-I. provide similar 3-pole where noted.
 3. Wall Plates:
 - a. All receptacle and switch plates shall be of the high abuse NYLON type, Leviton Series #80700 for receptacles, switches, etc., single or gang plates as required. Color- as directed by the Architect.

PART 3 - EXECUTION

3.1 WIRING FEATURES

- A. The proper number of wires shall be installed and properly connected in order to make the lighting and power systems wiring complete, ready for satisfactory service.
- B. Connect all wires in outlet boxes, leaving only those ends, at least 6" long, which will be connected to fixture wires.
- C. Receptacles shall be wired with 6" pigtails, no loop allowed.

- D. Feeding of outlets through local switches will not be permitted unless otherwise indicated on the drawings.
- E. Splices of wires are to be eliminated wherever possible and where necessary are only to be made in readily accessible pull and outlet boxes.

END OF SECTION 16050

SECTION 16500 - ELECTRICAL LIGHTING FIXTURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Special Conditions, and Division 1 Specification sections apply to work specified in this section.

1.2 SCOPE

The work covered by this Section includes all labor, materials, equipment and accessories to complete the installation of the lighting systems and equipment as specified hereinafter and/or shown on the Drawings.

PART 2 - PRODUCTS

2.1 LIGHTING FIXTURES

- A. The contractor shall furnish and install all lighting fixtures as called for on the schedule. The fixtures listed in the Fixture Schedules on the drawings are intended to show the type and quality of fixtures required. Where alternate manufactures are listed, substitutions shall be limited to those names only.
- B. The Contractor shall furnish and install all lamps for fixtures.
- C. All burrs, fins, and sharp edges must be removed from fixture parts before they are assembled. Canopies, holders, etc. shall be spun or drawn in one piece unless otherwise specifically approved. Aluminum sheet of less than #10 gauge when placed in contact with brick, plaster, gypsum, concrete, or similar masonry construction, shall be back painted before installation with aluminum or bituminous paint.
- D. The finish of fixtures shall be the manufacturer's standard finish except as otherwise noted on the fixture schedule. Color selections shall be by the Owner's Representative.
- E. Sockets and receptacles for fixtures using enclosing glassware shall be of porcelain or non-inflammable molded compound.

- F. Fixture wire shall be in strict compliance with the latest requirements of the National Board of Fire Underwriters. The carrying capacity of the wire shall meet the latest requirements of the National Electrical Code. No fixture wiring shall be smaller than #16 gauge. Wiring shall be protected with tape or tubing at all points where abrasion is liable to occur. All wiring shall have a continuous identifying marker, readily distinguishing it from the other conductor, the marked conductor to be connected to the screw side of the socket or lamp receptacle.
- G. No splice or tap shall be located within any stem. Wiring shall be continuous from splice in outlet box of the building wiring system to lampholder.
- H. Solderless connectors, Scotchlok or approved equal, may be used in making connection in the wiring within the fixtures or in connecting the fixture wiring to circuit wiring.
- I. This Contractor shall furnish and install all supplementary steel or other supports required for any fixtures.
- J. At time of final inspection all fixtures and equipment must be complete with lamps and required glassware or reflectors, which must be clean and free from defects. Any fixtures, reflectors, or glassware broken prior to the time of final inspection must be replace without cost to the Owner.

PART 3 - EXECUTION

3.1 GUARANTEE

- A. All fixtures including lamps and accessories shall be guaranteed for a period of one year from date of substantial completion. This is in addition to any manufacturer warranties.

3.2 SHOP DRAWINGS

- A. Submit required shop drawings for the following items:
 - 1. Lighting Fixtures.
- B. Shop drawings which do not comply with Subparagraph 16010 1.9 B will be rejected.

END OF SECTION 16500