Town of Plainfield
Public Works Facility Roof Replacement Project

Public Works Roof Replacement Project
47 Unity Street, Moosup, CT.
Ph. 860-230-3001
Fax 860-230-3033

Mandatory Pre-Bid Conference March 3rd, 2020, 9:00 a.m. at the Highway Garage, 47 Unity Street, Moosup, CT
Bid Opening - March 12th, 2020 @ 11:00 a.m. Town Hall lobby

Specifications and Bid Package
Section 00000
Scope of Work

1. Roof Hugger as needed for Code, wind warranty required.
2. Mechanical Attachment for Metal Submittals required.
3. Eve Edge Gutter and detail for continuous 6" one pieces Gutter with drops as needed.
4. Gutter 3"X4" drops as needed.
5. Eve Edge reinforcement Submittal Required.
7. PBR 24 Ga Painted approved installation application Required.
8. Alternate SSR 19.5 Mechanical fastened 24 Ga painted.
9. Trim and Accessories No substitutes like in kind for the system supplied.
10. 40 Year paint warranty on all exposed metal.
12. Ensure that and and all roof penetrations are watertight.
13. Remove all project debris from site.

Payments schedule

(1) Mobilization and Materials on site – 33%
(2) Materials lien waiver and 50% completion – 33%
(3) Substantial completion of project, all final lien waivers and all warranties in place. Full Balance (34%)
SECTION 01001

INSTRUCTIONS TO BIDDERS

All bidders must attend the MANDATORY Pre-bid conference on Tuesday, March 3, 2020 @ 9:00 a.m. to be eligible to submit a bid. The Pre-bid conference will be held at the Plainfield Public Works Facility located at 49 Unity Street, Moosup, CT.

Mail or deliver the attached BID FORM in a sealed envelope to be received no later than 11:00 A.M. on Thursday, March 12th, 2020 to:

TOWN OF PLAINFIELD
FINANCE OFFICE
8 COMMUNITY AVENUE
PLAINFIELD, CT. 06074

To be noted on the outside of the envelope:

CONTRACTOR'S NAME
Bid for:
PUBLIC WORKS ROOF PROJECT
Project Address:
47 UNITY STREET
MOOSUP, CT.

DO NOT OPEN UNTIL 11:00 A.M.
THURSDAY, MARCH 12, 2020

All work and materials to meet the requirements of the current State of Connecticut Building Code. Contractor to furnish and install all materials unless otherwise noted. Final Plans, Specifications, Materials, and Methods subject to Owner's approval prior to Notice to Proceed.

NOTE: THE CONTRACTOR, PRIOR TO SUBMITTAL MUST INITIAL ANY CHANGES OR ERASURES MADE TO BID FORMS.

BIDS SHALL REMAIN IN EFFECT FOR THIRTY (30) DAYS, SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS INCLUDED AFTER THE OPENING OF THE GENERAL BIDS

All contractors must carry Workman’s Compensation Insurance regardless of the number of persons in their employ and if employing sub-contractors, they must also be covered by workman’s compensation, through the G.C. by or themselves.

END
SECTION 01001
SECTION 01002

INVITATION TO BID

The Town of Plainfield is soliciting bids for:

Public Works Roof Replacement Project

47 Unity Road
Moosup, Ct.

Copies of the Project Specifications
may be obtained from and returned to the Town of Plainfield,
Office of the Finance Director
8 Community Avenue, Plainfield, Ct.
Monday thru Wednesday 8:00 A.M. - 5:00 P.M.
Thursday 8:00 A.M. – 6:00 P.M.

Bidders are to inspect the premises and to attend a MANDATORY pre-bid
conference at the following time and location:

Tuesday, March 3, 2020, 9:00 A.M.
47 Unity Road
Moosup, Ct.

Bidder shall fully complete and sign Bid Form.
Sealed bids, clearly marked as indicated in Section 01001 of the Bid Package will be
received until:
Thursday, March 12, 2020
11:00 A.M.

at which time the bids will be opened and read aloud.
The Bid opening is public and all bidders are
invited to attend.

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER
SECTION 00500
GENERAL CONDITIONS

1. The Contractor, unless otherwise specified, shall provide all labor, materials, tools, equipment, and necessary related items, and pay all taxes, fees, and permits necessary to complete all of the work as detailed in the attached Scope of Work and Specifications.

2. All work shall be in compliance with all applicable building codes of the Town of Plainfield and the State of Connecticut. Before commencing work, Contractors and Subcontractors shall obtain all necessary Permits.

3. The Contractor certifies that he has familiarized himself with the requirements of the Scope of Work, Specifications and plans and understands the extent and character of the work to be done, and inspected the premises and given his full attention to any and all areas with which he might become specifically involved. He must familiarize himself with all conditions relating to and affecting his work and bid.

4. The selected Contractor must, prior to contract signing, supply the Town of Plainfield and the Owner with the original Certificates of Insurance for Workers Compensation Insurance and General Liability Insurance with a broad form contractual endorsement with minimum limits of one million ($1,000,000.00) dollars per occurrence for bodily injury and two million ($2,000,000.00) dollars per occurrence for property damage and Auto Liability insurance in accordance with State Law. The Contractor shall indemnify and save harmless the Town of Plainfield under these policies, which shall list the Town of Plainfield and their agents as additional insured.

5. The Contractor agrees that all services offered by the Town of Plainfield, which may affect the Contractor, are offered by the Town of Plainfield in order to assist in the project implementation and the necessary program compliance. The Contractor agrees to, upon review and acceptance of such services provided, indemnify, defend, save and hold harmless the Town of Plainfield, their officers, agents and employees from and against any and all damage, liability, loss, expense, judgment or deficiency of any nature whatsoever (Including, without limitation, reasonable attorney’s fees and other costs and expenses incident to any suit, action or proceeding) incurred or sustained by the Town of Plainfield which shall arise out of or result from the Town of Plainfield’s performance in good faith of services. The Contractor agrees that the Town of Plainfield and its employees shall not be liable to the Contractor, its heirs, successors or assigns, for any act performed within the duties and scope of their employment.

6. All materials shall be new and of acceptable quality. The Town shall select all colors, models, etc. All materials and work must be applied in accordance with the applicable manufacturer instructions and specifications, and in accordance with Federal prohibitions against the use of lead paint. All manufacturer warranties are to be extended to the Town of Plainfield free and clear of all liens. Unless otherwise specified, all labor, the Contractor shall guarantee material, and workmanship provided by the Contractor for a one (1) year period from the date of the Certificate of Completion. This guarantee shall be in addition to and not in limitation of, in lieu of, or modify any other guarantee that is due the Town of Plainfield from any manufacturer.

7. The Contractor shall repair or replace all work, materials, and equipment, which are found to be defective during construction and the guarantee period. Repair shall include all damage to surrounding work caused by the failure and/or necessary for the repair or replacement of the defect. All repairs and replacements shall be performed at no additional expense to the Town of Plainfield and shall be completed promptly after the Contractor receives notice of the defect.

8. The Contractor shall take all necessary measures and precautions to protect the surroundings from damage occurring due to performance of the work. If such damage occurs it will be repaired by the Contractor at no cost to the Town of Plainfield.

9. The Contractor shall dispose of all debris and remove all material resulting from his work in accordance with Local and State law. The Contractor shall police and maintain a clean and safe job site daily. He shall reinstall
accessories taken down and clean up all scrap around the project and remove fingerprints. All on-site maintenance relating to the performance of the work shall be the responsibility of the Contractor until the Certificate of Completion is issued. The project shall be maintained in a habitable and safe condition daily if the project is to remain occupied.

10. All work shall be neat and accurate and done in a manner in accordance with customary trade practices.

11. The Contractor shall not make any changes to the Scope of Work unless a Change Order is processed and fully executed by the Town of Plainfield.

12. The Town of Plainfield shall issue a Notice to Proceed no sooner than three (3) business days and no later than ten (10) days from the signing of this Contract by all parties. Shall the Notice to Proceed fail to be issued; the Contract shall become Null and Void. The Contractor shall commence work under this Contract within fourteen (14) consecutive calendar days from the date of the Notice to Proceed and fully complete the work within sixty (60) consecutive calendar days after actual start date. If the Contractor is delayed at any time in the progress of the work by any act or neglect of the Town of Plainfield or by any employee of the Town of Plainfield, or by any separate Contractor employed by the Town of Plainfield, or by changes ordered in the work or by labor disputes, fire, unusual delay in delivery of materials, transportation, adverse weather conditions not reasonably anticipated, unavoidable casualties, or any causes beyond the Contractor’s control, or by delay authorized by the Town of Plainfield pending arbitration, or by any other cause which justifies the delay, the Contract time shall be extended by Change Order for such reasonable time as may be agreed upon by all parties. It shall be the responsibility of the Contractor to request and document in writing such extensions within three (3) calendar days. The Town of Plainfield retains the right to impose against the Contractor a liquidated damages penalty in the sum of four hundred ($400.00) dollars per day for each consecutive calendar day work is not complete following the specified Contract completion date.

In the event that the Contractor does not commence or pursue the work as hereinafter stated, then the Town of Plainfield shall have the right to terminate this agreement and to hire a successor Contractor to perform the work. Any such termination shall be by certified mail to the address noted in this agreement, and shall be effective as of the date of mailing. Payments by the Town of Plainfield in the event of termination shall be as follows:

The successor Contractor shall first be paid and then the terminated Contractor. Payments to the terminated Contractor shall be limited both as to those funds remaining after payment to the successor Contractor but shall not exceed the value of the work actually performed by the terminated Contractor minus any liquidated damages. Further, should the total cost for work performed under this contract exceed the amount stated in this agreement due to the Contractors termination, then the Town of Plainfield shall have a cause of action against the terminated Contractor for any such additional costs.

13. The Contractor may request progress payments as work is completed and for materials on site in accordance with the attached specifications. The request shall be in the form of an itemized bill for that portion of work completed by the Contractor. All requests for a fully executed Lien Waiver shall accompany payment, on a form provided by the Town of Plainfield. Final payment is contingent upon the receipt of a signature of the respective inspector for which each permit was issued. The Contractor shall be responsible for obtaining the signatures and presenting them upon final payment.

14. All claims or disputes between the Town of Plainfield and Contractor arising out of or related to the work shall be resolved in accordance with Construction Industry arbitration rules of the American Arbitration Association (AAA) unless the parties mutually agree otherwise. The Town of Plainfield and Contractor shall submit all disputes or claims, regardless of the extent of the work’s progress, to AAA. Notice of the demand for arbitration shall be filed in writing, with a copy to the other party to this Construction Agreement, and shall be made within a reasonable time after the dispute has arisen. The award rendered by the Arbitrator shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof. If the Arbitrator’s award is in a sum which is less than that which was offered in settlement by the Town of Plainfield, the Arbitrator may award costs and attorney’s fees in favor of the Town of Plainfield. If the award of the Arbitrator is in a sum greater than that which was offered in settlement by the Contractor, the Arbitrator may award costs and attorney’s fees in favor of the Contractor. It is understood and agreed by the parties hereto that neither party will institute any
form of legal action, including, but not limited to, attaching the assets of the other party, unless and until it has made a good faith attempt to have the dispute resolved in accordance with the provisions of this Section. Noncompliance with the conditions precedent constitutes a waiver of the right to assert said claim.

15. **OVERTIME ACT**

The **Contract Work Hours and Safety Standards Act**, also known as the “Overtime Act”, requires that workers receive overtime compensation at a rate of 1 1/2 times their regular rate, for any hour over 40 hours in one week.

16. The Contractor will not discriminate against any employee or applicant for employment because of race, color, creed, religion, sex, sexual preference, national origin, or mental or physical disability during the performance of this agreement. The Contractor will take affirmative action to ensure that all employment practices such as the following: employment, upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation and selection for training, including apprenticeship, without regard to their race, color, creed, religion, sex, sexual preference, national origin or mental or physical disability. This provision will be inserted in all subcontracts for work covered by this agreement.

17. In the event of the Contractor’s noncompliance with this equal opportunity clause or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further contracts in accordance with procedures authorized in Presidential Executive Order 11246, or by rule, regulations, or order of the Secretary of Labor or as provided by law.

18. The following applies to all contracts of $10,000.00 or more: **SECTION 402 VETERANS OF THE VIETNAM ERA. AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA.** The Contractor will not discriminate against any employee or applicant for employment because he or she is a disabled veteran of the Vietnam era in regard to any position for which the employee or applicant for employment is qualified. The Contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified disabled veterans and veterans of the Vietnam era without discrimination based upon their disability or veteran status in all employment practices such as the following: employment upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation and selection for training, including apprenticeship.

19. The premises shall be occupied during the course of the construction work.

20. No officer, employee or member of the Governing Body of the Town of Plainfield shall have any financial interest, direct or indirect, in this contract.

21. The Town of Plainfield retains the right to reject any or all bids or any part of any bid.

22. Alcoholic beverages and/or drugs are not to be consumed on the job site at any time.

23. Substitutions of materials from that specified are only allowed on an approved basis. The Contractor must submit written documentation of the substitute item or material for approval by the Town of Plainfield Office of Buildings and Properties prior to making such a substitution. Any items or materials substituted by the Contractor without prior written approval of the Town of Plainfield will be at the Contractor’s expense to replace if it is determined not to be of equal to the item or material specified. Any surrounding, adjoining, or dependent items affected by replacement of unequal substituted material shall also be replaced, reworked, and reinstalled at no cost to the Town of Plainfield.

24. Bids shall contain prices for the general categories of work and/or items as specified on the attached sheets. In the event of a discrepancy between prices listed in the specifications and those on the cost summary sheet, the prices listed on the specification for that section should prevail. In the case of a mathematical error by the Contractor, the correct sum of the individual line items in the specifications shall be the Contractor’s bid.

25. All bids shall remain in effect for thirty (30) calendar days.
26. The Contractor shall be responsible for the storage and safety of his own materials and equipment. The Town of Plainfield assumes no responsibility or liability whatsoever for any materials or tools and equipment, which are damaged or stolen on the premises where such has not been brought into the building and/or applied, connected, or installed.

27. TOWN OF PLAINFIELD RESPONSIBILITIES

The Town of Plainfield is expected to:

1. Sign any work related forms or checks in a timely manner.
2. Provide the Contractor with electricity.
3. Allow the use of the Public Works Garage.

28. The specifications and drawings, if any, are complimentary. Work described in the specifications does not necessarily have to appear on the drawings, nor does the work described on the drawings necessarily have to appear in the specifications. The Contractor is responsible for estimating all work whether described in the specifications, the drawings, or both. If there is a discrepancy between the drawings and the specifications, the specifications shall prevail. All work, whether described in the specifications, or the drawings is to be included in the bid summary sheet by appropriate line item. The Contract will only be awarded to the General Contractors bidding on ALL line items.

I HAVE READ AND UNDERSTOOD THESE GENERAL CONDITIONS, AND HAVE MADE A COPY FOR MY RECORDS.

| Company Name: | |
| Address: | |
| Telephone #: | |
| FAX #: | |
| E-mail: | |
| FEIN or SSAN#: | |
| Contractor Reg. #: | |
| Expiration date: | |
| Printed name: | |
| Signature: | |
| TOTAL CONTRACT AMOUNT: $ | (to the nearest dollar amount) |
SECTIONS 01000

GENERAL REQUIREMENTS

1. GENERAL

1.01 WORK SCOPE

A. Work included: Perform all work necessary and required for the construction of the project as indicated. Such work includes, but is not limited to, the following:

1. Definitions
2. Reference Specification and Standards
3. Inspections

1. Definitions

a. Contract: The Contract is the agreement covering the performance of the work and the furnishing of materials required in the construction of the project. The Contract shall include the “Proposal”, “Plans”, “Specifications”, all required Insurance Policies, and any and all “Supplemental Specifications” or “Change Orders”, made or to be made which reasonably could be required for the completion of the work in an acceptable manner.

b. Owner or Town: shall mean the Town of Plainfield and its’ designee as denoted on the contract.

c. Contractor: shall mean the Contractor as denoted on the contract.

2. Reference Specifications and Standards

Various standards and specifications are incorporated in the technical sections of these specifications by reference. In all such instances, the reference shall mean the latest edition, including amendments or revisions, in effect as of the date of these specifications. Nothing contained in the specifications shall be construed as permitting work that is contrary to such rules, regulations, and codes.

a. Code: The Connecticut State Building Code is hereby made a direct part of these specifications, and all work included in contracts shall conform with the applicable requirements therein. All codes of any other regulatory board or agency having jurisdiction over this project shall also be made a direct part of these specifications and all applicable requirements shall be adhered to under all contracts.

b. Act: The Occupational Safety and Health Act of 1970 (OSHA) shall be made a direct part of these specifications and all work included in contracts shall conform with the applicable requirements therein. Penalties, fines, etc. levied against the Owner or Subcontractor for non-conformance by the Subcontractor shall be the full responsibility and, liability of the Subcontractor.
c. Specifications and Standards: A list of organizations publishing specifications or standards normally referenced in technical sections of these specifications, together with the official abbreviation, therefore, follows:

- AIA American Institute of Architects
- AISC American Institute of Steel Construction
- AISI American Iron and Steel Institute
- ANSI American National Standards Institute, Inc. (Formerly USASI - United States of America Standards Institute)
- APA American Plywood Association
- ASHRAE American Society of Heating, Refrigerating And Air Conditioning Engineers
- ASTM American Society for Testing and Materials
- AWPA American Wood - Preservers Association
- AWPI American Wood - Preservers Institute
- AWA American Welding Society
- CS Commercial Standard, U.S. Dept. of Commerce
- FS Federal Specification
- HUD United Stated Department of Housing and Urban Development
- NBFU National Board of Fire Underwriters
- NEC National Electric Code of NBFU
- NEMA National Electrical Manufacturers' Assoc.
- SPR Simplified Practice Recommendation, U.S. Dept of Commerce
- TCA Tile Council of America
- UBC Uniform Building Code Standards
- UL Underwriters' Laboratories, Inc.
- USASI United States of America Standards Institute (see ANSI)
- WIC Woodwork Institute of California

* References to other organizations are included in some sections of the specifications.

2. PRODUCT

2.01 PRODUCT SCOPE

Miscellaneous Items: Miscellaneous items and their related components which are to be furnished under sections of these specifications are not necessarily individually described. The most important features and those requiring detailed description are mentioned and described and shall be furnished in accordance with the intent of the drawings and specifications and as required to complete the work.

3. EXECUTION

3.01 INSPECTIONS, TESTS & PERMITS

A. The Contractor shall furnish to the Town of Plainfield, if so requested, at no additional cost, shop and mill test reports.
B. When local codes or laws require inspection and/or approval of the drawings or equipment before installation or operation, it shall be that Vendor’s and/or Contractor’s responsibility to obtain such approval and to submit one (1) signed original and three (3) copies of the approval for the top records.

C. The Town of Plainfield has the right to inspect any material or equipment at any stage of development or fabrication. Such inspection will not release the Vendor from any responsibility or liability with respect to such material or equipment.

D. When the Contractor’s work will require inspection or test, the Contractor shall notify the Town of Plainfield twenty-four (24) hours in advance of such required test or inspection. When specific inspections or tests are required, the work shall not proceed beyond that point until the inspection or test has been made. The Contractor shall cooperate with the Town, local authorities and/or testing laboratory representatives by giving ample notice of the time, location and extent of work to be inspected or tested and by providing necessary facilities at the project site or in the shop for the test execution.

E. Permits: It shall be the responsibility of the Contractor to obtain all working permits required to complete work the under the contract.

3.02 EXISTING CONDITIONS

The Contractor shall be deemed to have inspected the site and familiarize himself as to the actual conditions under which the work is to be performed.

3.03 ACCEPTANCE

Acceptance of the work will be given after the Town of Plainfield has made sufficient tests and inspections to determine the compliance of the work with the drawings, specifications, and any written agreements between the Contractor and the Town of Plainfield. If tests and/or inspections show the work not to be as represented or contracted for, the Town may refuse to accept it, and the Contractor shall be so advised and given a reasonable time to make the necessary corrections. All corrections shall be made at the Contractor’s expense.

3.04 CONTRACTOR RESPONSIBILITY

If the work as contracted for by the Contractor cannot be performed or installed according to the contract plans and specification, it is the responsibility of the Contractor to bring any and all discrepancies to the attention of the Town before such work is begun.
SECTION 02501

REMOVALS

1. GENERAL

A. This specification includes all labor, materials, taxes, permits, insurance and fees required to demolish and remove all materials from site and dispose of all materials as required by all regulatory agencies, codes, and ordinances. Coordinate with the work of the other trades specified elsewhere. All on-site disposal and maintenance of the site are included in this specification. The site must be maintained in a workmanlike, safe, and watertight condition daily.

2. WORK SEQUENCE

A. Schedule the work to accommodate the Town of Plainfield’s use of the premises during the construction period. Coordinate the construction schedule and operations with the Town.

B. It is the Town of Plainfield’s intention to proceed with the entire project with the facilities occupied.

C. Coordinate any required short term mechanical, plumbing, and electrical interruptions and shutdowns with the Town, allowing time for arrangements to be made by Town’s personnel.

D. Take every precaution to ensure the safety of the building, occupants, and personnel during all phases of construction. Maintain all existing and required fire exits, and emergency access routes. Coordinate restrictions and closures with the Building Official and Fire Marshall.

E. Extent of general removal work is listed in the SCOPE OF WORK.

3. CONTRACTOR’S USE OF PREMISES

A. Coordinate the use of the premises under the direction of the Town of Plainfield’s designated project supervisor.

B. Assume the full responsibility for the protection and safekeeping of products and materials under this Contract.

C. Move any stored products under Contractor’s control, which interfere with the operations of the Town of Plainfield.

D. The Contractor shall ensure that the premises and personnel be protected from falling debris during demolition and construction. The contractor will be responsible for all damages incurred and/or caused during the project.

4. OWNER OCCUPANCY

A. The Town will occupy the remainder of the premises during the entire period of the construction for the conduct of their normal operations to minimize conflict, and to facilitate the Town of Plainfield’s usage, i.e.

   I. Town of Plainfield’s public parking, building accesses, including movement to and from facility/building.
2. Continued operations of existing facilities and functions by the Town of Plainfield are to be maintained to the greatest extent possible throughout the construction of the project.

3. Take every precaution to minimize or eliminate the spread of air-borne and traffic-borne dust from demolition and construction work to other areas of the building.

5. WORK INCLUDED

A. Items to be removed if required by lead-based paint removal procedures will follow the guidelines of the State of Connecticut Health Department. The Contractor, prior to any commencement of lead abatement work must approve all abatement procedures by the Health Department for abatement.

END OF SECTION 02501
Coverage Width - 36"

Minimum Slope - 1:12

Panel Attachment - See page 23

Panel Substrate - Galvalume®

Gauge - 26 standard - 29, 24 and 22 also available

Coatings - Galvalume Plus®, Signature® 200* and Signature® 300*

PRODUCT SELECTION CHART

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● - Available in any quantity.
★ - Minimum quantity may be required.

*See Commercial/Industrial color chart for available colors.
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Notes:
2. Allowable loads are applicable for uniform loading and spans without overhangs.
3. LIVE LOAD/DEFLECTION load capacities are for loads that push the panel against its supports. The applicable limit states are flexure shear, combined shear and flexure, and a deflection limit of L/180 under strength-level loads.
4. NEGATIVE WIND LOAD capacities are for loads that pull the panel away from its supports. The applicable limit states are flexure shear, combined shear and flexure, and a deflection limit of L/180 under 10-year wind loading.
5. Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
6. Effective yield strengths have been determined in accordance with section A2.3.2 of the 2012 NAS specification.
7. The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
8. This material is subject to change without notice. Please contact MBCI for most current data.

SUBJECT TO CHANGE WITHOUT NOTICE
SEE www.mbci.com FOR CURRENT INFORMATION
REV 00.04 PB-17
STRUCTURAL RETROFIT ROOF SUB-FRAMING SYSTEM

PART 1 - GENERAL

1.1 DESCRIPTION

A. The structural retrofit roof sub-framing system will provide support for a new metal roofing system constructed over the existing building roof. It shall be engineered in accordance with the specified code and design loading and shall transfer positive acting loads at each attachment location into an existing structural member.

B. Furnish labor, material, tools, equipment and services for the fabrication of retrofit roof sub-framing as indicated, in accordance with provisions of the Contract Documents.

C. Completely coordinate work with of other trades.

D. Although such work is not specifically indicated, the contractor/installer shall coordinate with the metal roof system supplier to furnish and install supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.

E. Reference Division 1 for General Requirements

1.3 QUALITY ASSURANCE AND REFERENCES

A. ASTM International

1. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.


B. American Iron and Steel Institute (AISI)

1. AISI D100-13: Cold-Formed Steel Design Manual, most recent edition.

2. AISI S100-16: North American Specification for the Design of Cold-Formed Steel Structural Members, most recent edition.

C. American Institute of Steel Construction (AISC)

1.4 SUBMITTALS

A. Comply with Section 01 33 00 - Submittals.
B. Product Data: Submit manufacturer's product data, including installation instructions.
C. Shop Drawings: Submit manufacturer's shop drawings for sub-purlins indicating gauge, yield strength, flange and web sizes, cut-out dimensions, and punch pattern for attachment holes in base flange.
D. Design Data: Submit design data from independent engineering firm indicating table of wind uplift capacity of sub-purlins.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to site in manufacturer's original, unopened bundles, containers, and packaging, with labels clearly identifying product name and manufacturer.

B. Storage:
   1. Store materials in accordance with manufacturer's instructions.
   2. Protect sub-purlins from corrosion, deformation, and other damage.
   3. Store sub-purlins off ground, with 1 end elevated to provide drainage.

1.6 EXISTING ROOF SYSTEM AND PRE-CONSTRUCTION INSPECTION

A. The existing roof is a metal panel system in a corrugated profile style that was commonly installed on commercial and agricultural buildings decades ago due to its' affordability and strength. It clearly shows signs of significant and accelerated corrosion.

B. Conduct a detailed inspection of the existing roof(s) to identify any existing roof elements that are a cause for concern such as: panel deterioration, structural deterioration, equipment curbs, plumbing and electrical penetrations, special flashing requirements, and any other items that should be submitted to the Town of Plainfield for review and evaluation.

C. Perform a detailed survey of the existing roof(s) and confirm the existing panel dimensions, type and profile. In the case of existing standing seam roofing it should be determined if the existing roof employs standard or tall clips. If high panel clips are existing, the standoff dimension must be determined.

D. Record field measurements on the existing roof geometry including width, length, eave height, roof pitch and purlin spacing. This information is to be forwarded to the retrofit
sub-framing system manufacturer for coordination and integration into the design and installation documents.

1.7 DESIGN REQUIREMENTS

A. General

1. Design for approval and installation in accordance with the Contract Documents, a complete retrofit sub-framing and metal roof panel assembly as a structural package.

2. Engineer and factory fabricate sub-framing system in accordance with applicable references.

3. Coordinate design with the retrofit sub-framing manufacturer and the metal roof panel manufacturer to perform as one engineered structural package where the metal roof system controls the placement of sub-framing members.

4. Any additions/revisions to sub-framing members as a result of field conditions and/or demands, shall be the contractor’s responsibility, and shall be submitted for review and approval by the manufacturer.

B. Engineering Design Criteria:


2. Additional Requirements: None

3. Occupancy Group: S - Storage

4. Occupancy Category: Low Hazard

5. Minimum Roof Snow Load: 30 PSF

6. Ground Snow Load: 30 PSF

7. Wind Speed: 135 MPH, 3 Second Gust, 105 mph Nominal

8. Exposure Category: B


PART 2 - PRODUCTS

2.1 MANUFACTURER QUALIFICATIONS

A. Manufacturer shall have a minimum of five years of experience in manufacturing and fabrication of retrofit sub-framing systems of this nature.

B. Light-gauge steel sub-framing components specified in this section shall be produced in a factory environment by roll forming and press-brake equipment assuring the highest level of quality control.
C. Acceptable Manufacturers


2. Other manufacturers must submit a request for approval prior to the established bid date according to applicable Division 1 Section(s) and shall be equal to Roof Hugger, LLC.

A. Mechanical fasteners Attachment Fasteners/Anchorages

1. “Standard” Roof Hugger Sub-Purlin:
   b. Existing Purlin Strengthening, Top Flange Lap Connection: four- #10-16 x 1 inch pancake head screws through overlapping sub-purlin top flanges, joining them into a continuous member, per lap connection or as specified.
   c. Mid-Span Hugger Sub-Purlin to Sub-Rafter: [two, 1/4"-14 1 inch], DP3 self-drilling on each side of cutout and one #10-16 x 1 inch pancake head screw installed through sub-purlin top flange, into sub-rafter.

Fastener Types: The following fasteners are those used in typical Roof Hugger installations as indicated below. Please note their specific use as described in this section and manual. Typical Screw Nomenclature: ½"-14 x 1 ½" DP3 or T3 is explained this way: ½" is screw diameter, -14 is threads per inch, x 1 ½" is length and DP3 or T3 is the type of drilling tip. Please note that in lieu of DP3, Roof Hugger uses Tek-3 or T3 in our standard details and other construction documents to describe any self-drilling screw. Size: #10-16 X 1" TEK-3 Locations: A. Attaching Hugger top flange to sub-rafter at corner/edge wind uplift zones B. At Hugger laps for Purlin Strengthening Size: #17-14 AB (washer typically not required) Locations: A. Attaching Hugger into existing Roof panels at Mid-span locations B. Securing Hugger anti-rotational arm to existing Trapezoidal SSR panel rib Size: ½"-14 X 1½" TEK-3 Locations: A. Attachment of Hugger Sub-Purlin to existing purlin or joist B. Attachment of Hugger sub-purlin in corner/edge zone to sub-rafter, spanning between existing purlins, to create a mid-span purlin. C. Securing Hugger anti-rotational arm to existing Vertical Rib SSR panel rib. Size: ½"-14 X 2" TEK-3 Special Stand-off Screw Location: Attachment of Hugger to existing purlin or joist when existing Roof panel is a trapezoidal or vertical rib standing with standoff clip and thermal spacer. These fasteners are furnished by Roof Hugger. Size: ½"-14 X 3" TEK-3 with “Spirol” spacer When in doubt about any special situation, consult your project architect or engineer first. Roof Hugger is also available to discuss any issues or details. In this manner,
1. MANUFACTURER
ROOF HUGGER, LLC
142 Whitaker Road
Lutz, Florida 33549
(800) 771-1711
Fax: (877) 202-2254
Email: sales@rooffhugger.com
Website: www.rooffhugger.com

2. PRODUCT NAME/DESCRIPTION
ROOF HUGGER Sub-Purlin System
BASIC USE
ROOF HUGGER, established in 1991, is the original manufacturer of Structural Factory-Notched Sub-Purlins for existing sloped metal roofs.
As an innovator in “Metal-over-Metal” re-roofing systems, ROOF HUGGER has made numerous product and technological contributions to the industry and continues to offer the latest technology for retrofitting over existing metal roofs.

ADVANTAGES
- ROOF HUGGER Sub-purlins are installed on the exterior of the existing building so operations within can continue without interruptions during the retrofit process.
- ROOF HUGGER Sub-purlins are custom punched to the profile of the existing metal roof allowing for the maximum structure to structure connection of the framing members.
- ROOF HUGGER Sub-purlins can be fabricated to any specific height from 1.25" tall up to 10" tall to accommodate any specified thickness of insulation.
- ROOF HUGGER Sub-purlins have extensive E-1592 performance testing
- ROOF HUGGER has several Florida Product Approved and FM approved assemblies.
- ROOF HUGGER Sub-Purlins have been demonstrated, in some cases, to add capacity to the existing purlins.
- ROOF HUGGER projects can be engineered on a “project specific” basis for installations requiring any non-standard condition to be addressed.
- ROOF HUGGER patented anti-rotational Sub-purlins can be used to address drag load conditions, points of failure conditions and existing tall metal roof assemblies
- The cavity created by the ROOF HUGGER Sub-Purlins can be incorporated to add insulation, thermal collection and above sheeting ventilation.

PRODUCT TYPES
- MODEL "C" – This part is 1.83" tall and designed to accommodate existing ribbed metal roofing panels with 1-1/2" or less major ribs spaced at 12" on center.

![Model "C" Profile]

- MODEL "D" – This part is 4.5" tall and designed to accommodate existing 24" o.c. Trapezoidal SSR metal roof panels that do not have tall clips and thermal spacers.

![Trapezoidal SSR Profile with "D"]

- MODEL "T" – This part is 4.5" tall and designed with a patented anti-rotational arm to accommodate existing 24" o.c. Trapezoidal SSR metal roof panels that are installed with tall clips and/or thermal spacers.

![Corrugated Profile]

3. COMPOSITION & MATERIALS
ROOF HUGGER Sub-Purlin System base materials is minimum 50 ksi yield strength G-90 galvanized finished steel sheet per ASTM A-446 or A573. Material is US Produced Steel 0.060" minimum material thickness 16 gauge tested to meet design loads. 14 gauge is also available as is stainless steel or other special materials.

4. TECHNICAL DATA
APPLICABLE STANDARDS
- American Iron and Steel Institute – AISI Light Gauge Cold-Formed Steel Design Manual and American Society for Testing and Materials (ASTM)
- ASTM A-446 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot Dip Process, Structural (Physical) Quality
- Florida Product Approvals FL 9352-R3 and FL 9352, 1 – 9352, 5

5. INSTALLATION
PREPARATORY WORK
Handle and store product according to ROOF HUGGER recommendations. Protect products from damage during transit and at project site. Store components in dry storage areas to prevent exposure to moisture. The installer must first locate existing purlins or joist. If the existing roof is an exposed fastener system, then this process will be completed easily due to the existing structural member fasteners being exposed. If the existing roof system is a standing seam roof, inspection from the underside of the roof will be necessary. This will permit the installer to locate the existing purlins or joist. In this case, the installer must transfer the location of these members to the topside of the roof. Refer to the requirements mentioned above concerning existing standing seam roofs with thermal spacers and stand-off clips.

METHODS
Install and anchor in accordance with the ROOF HUGGER erection documents. Locate and attach ROOF HUGGER Sub-Purlin members to existing roof secondary support purlins or joist with the engineered quantity of anchors. The anchors are to attach through the pre-punched pilot holes. Fasteners must satisfy minimum wind uplift loads as determined by the project specifications.
PRECAUTIONS
Do not overload roof structure with stored materials. Do not proceed with installation until unsatisfactory conditions have been corrected. Isolate dissimilar metals to minimize possibility of galvanic actions. ROOF HUGGER sub-purlins and related systems are not watertight prior to new roof panel installation. Schedule construction to cover framing as installed or seal all fastener penetrations. Some standing seam panels may experience "panel rumble" under certain conditions if installed without insulation. Consult panel supplier for their specific installation recommendations.

BUILDING CODES
Current data on building code requirements and product compliance may be obtained from ROOF HUGGER technical support specialists. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

6. LIMITATIONS
ROOF HUGGER Sub-purlins are intended to attach directly above and to the existing building secondary support members. These members are most commonly zee shaped purlins, steel bar joist or other types of framing. When these members exceed the maximum spacing as dictated by the new roof panel system, the ROOF HUGGER Sub-purlins must employ "sub-rafters" and/or "trusses" that span over the existing purlins. By doing this, the ROOF HUGGER Sub-purlins can be installed at span conditions (between existing purlins).

7. AVAILABILITY & COST

AVAILABILITY
ROOF HUGGER services the United States, Canada, Guam, Mexico and the Caribbean through direct sales and licensees. Contact the manufacturer for more information.

COST
Budget installed cost information may be obtained from a local ROOF HUGGER service office.

OFFERING
ROOF HUGGER Sub-purlins are offered as a component part or on a project-by-project lump-sum basis. ROOF HUGGER does not provide engineering analysis for anchors. For product performance data, refer to Section 9 on this page.

7. WARRANTY
ROOF HUGGER issues a standard 1 year industry workmanship warranty. Additional warranty lengths are available upon request. In addition, test reports, technical bulletins and engineering data are available from the manufacturer upon request.

8. MAINTENANCE
Once the new roof has been installed, the ROOF HUGGER Sub-purlins require no maintenance.

9. TECHNICAL DOCUMENTS
ROOF HUGGER's Design and Installation Guide is available for download at [www.roofhugger.com](http://www.roofhugger.com). This manual contains specifications, applications and product information including complete installation details. CAD details are also available for download on the website.

10. TECHNICAL SERVICES
Technical assistance and preliminary design load estimates are available at no charge upon request. Additional assistance and information is available from the manufacturer upon request. The illustrations and photos below show some of our standard profile sub-purlin systems.
1. MANUFACTURER
ROOF HUGGER, LLC
142 Whittaker Road
Lutz, Florida 33549
(800) 771-1711
Fax: (977) 292-2054
Email: sales@roofhugger.com
Website: www.roofhugger.com

2. PRODUCT NAME/DESCRIPTION
ROOF HUGGER Sub-Purlin System

PRODUCT TYPES
- MODEL “C” – This part is 1.83” tall and designed to accommodate existing ribbed metal roofing panels with 1-1/2” or less major ribs spaced at 12” on center.

- MODEL “D” – This part is 4.5” tall and designed to accommodate existing 24” o.c. Trapezoidal SS3 metal roof panels that do not have tail clips and thermal spacers.

- MODEL “T” – This part is 4.5” tall and designed with a patented anti-rotational arm to accommodate existing 24” o.c. Trapezoidal SS3 metal roof panels that are installed with tail clips and/or thermal spacers.

ADVANTAGES
- ROOF HUGGER Sub-purlins are installed on the exterior of the existing building so operations within can continue without interruptions during the retrofit process.
- ROOF HUGGER Sub-purlins are custom punched to the profile of the existing metal roof allowing for the maximum structure to structure connection of the framing members.
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- ROOF HUGGER Sub-Purlins have been demonstrated, in some cases, to add capacity to the existing purlins.
- ROOF HUGGER projects can be engineered on a “project specific” basis for installations requiring any non-standard condition to be addressed.
- ROOF HUGGER patented anti-rotational Sub-purlins can be used to address drag load conditions, points of fixity conditions and existing tail clip metal roof assemblies.
- The cavity created by the ROOF HUGGER Sub-Purlins can be incorporated to add insulation, thermal collection and above sheeting ventilation.

3. COMPOSITION & MATERIALS
ROOF HUGGER Sub-Purlin System base materials is minimum 50 ksi yield strength G-90 galvanized finished steel sheet per ASTM A-446 or A-749. Material is US Produced Steel 0.060” minimum material thickness 16 gauge tested to meet design loads. 14 gauge is also available as stain steel or other special materials.

4. TECHNICAL DATA
APPLICABLE STANDARDS
- American Iron and Steel Institute – AISI Light Gauge Cold-Formed Steel Design Manual and American Society for Testing and Materials (ASTM)
- ASTM A-446 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Structural (Physical) Quality
- Florida Product Approvals FL 9352-R-3 and FL 9352.1 – 9352.5

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METHODS
Install and anchor in accordance with the ROOF HUGGER erection documents. Locate and attach ROOF HUGGER Sub-Purlin members to existing roof secondary support purlins or joist with the engineered quantity of anchors. The anchors are to attach through the pre-punched pilot holes. Fasteners must satisfy minimum wind uplift loads as determined by the project specifications.
PRECAUTIONS
Do not overlap roof structures with stored materials. Do not proceed with installation until unsatisfactory conditions have been corrected. Isolate dissimilar metals to minimize possibility of galvanic action. ROOF HUGGER sub-purlins and related systems are not watertight prior to new roof panel installation. Schedule construction to cover framing as installed or seal all fastener penetrations. Some standing seam panels may experience "panel rattle" under certain conditions if installed without insulation. Consult panel supplier for their specific installation recommendations.

BUILDING CODES
Current data on building code requirements and product compliance may be obtained from ROOF HUGGER technical support specialists. Installation must comply with the requirements of all applicable local, state and national code jurisdictions.

6. LIMITATIONS
ROOF HUGGER Sub-purlins are intended to attach directly above and to the existing building secondary support members. These members are most commonly zee shaped purlins, steel bar post or other types of framing. When these members exceed the maximum spacing as dictated by the new roof panel system, the ROOF HUGGER Sub-purlins must employ "stand-off" and/or "struts that span over the existing purlins. By doing this, the ROOF HUGGER Sub-purlins can be installed at mid-span conditions (between existing purlins).

7. AVAILABILITY & COST

AVAILABILITY
ROOF HUGGER services the United States, Canada, Guam, Mexico and the Caribbean through direct sales and licensees. Contact the manufacturer for more information.

COST
Budget installed cost information may be obtained from a local ROOF HUGGER service office.

OFFERING
ROOF HUGGER Sub-purlins are offered as a component part or on a project-by-project lump-sum basis. ROOF HUGGER does not provide engineering analysis for anchors. For product performance data, refer to Section 9 on this page.

7. WARRANTY
ROOF HUGGER issues a standard 1 year industry workmanship warranty. Additional warranty lengths are available upon request. In addition, test reports, technical bulletins and engineering data are available from the manufacturer upon request.

5. MAINTENANCE
Once the new roof has been installed, the ROOF HUGGER Sub-purlins require no maintenance.

9. TECHNICAL DOCUMENTS
ROOF HUGGER's Design and Installation Guide is available for download at www.roofhugger.com. This manual contains specifications, applications and product information including complete installation details. CAD details are also available for download on the website.

10. TECHNICAL SERVICES
Technical assistance and preliminary design load estimates are available at no charge upon request. Additional assistance and information is available from the manufacturer upon request. The illustrations and photos below show some of our standard profile sub-purlin systems.
**RECEIVING MATERIALS:**

ROOF HUGGERS are typically placed on wood pallets 3'-5' wide and approximately 10' long weighing up to 5,000 lbs. ROOF HUGGERS are shipped via closed van for "LTL" less than truckload quantities or flatbed for truckload quantities. The installer is responsible for unloading the material and providing the suitable equipment to safely unload the material from the delivery truck.

Upon receipt of material, check for damage; if damage is found, please note the damage on the carriers Bill of Lading at the time of delivery. Notify ROOF HUGGER, Inc. of this damage within 48 hours.

**HANDLING:** Proper care is required while unloading to prevent personal injury or material damage. Band straps should never be used for pulling or lifting of the pallets. If the pallets are to be lifted onto the roof, confirm the structure has adequate capacity first. If the structure is capable, the pallet should only be placed above the existing structural frames, 1-pallet per frame maximum unless otherwise directed by the engineer of record for the project.

**INSTALLATION:** Unless otherwise noted, install Huggers only directly over and into existing purlins through the existing panel pan section. (HUGGERS are normally installed with the top flange pointing up the roof slope.)

Wherever possible, layout new panels as to minimize the possibility of new panel fasteners or attachment clips from falling on the cut ends of the ROOF HUGGERS. Standing seam systems can be ordered with a narrower starter panel to offset the new panel from the existing panel module. If landing on the cut ends is unavoidable then attach the adjacent HUGGERS overlapping top flange ends with (2) #10 pancake head fasteners in addition to the clip fasteners or back lap the HUGGERS one full corrugation to produce a double thickness and continuity of the top flange across the lap.

**SPECIAL CONSIDERATIONS:** Weather Tightness:

During erection, prior to the installation of the new roof panel the ROOF HUGGERS are NOT WEATHERTIGHT. It is recommended that only the amount of HUGGERS to be covered with new roof panels be installed in a given workday. Mastic can be placed beneath the ROOF HUGGERS at the attachment points to minimize water intrusion during construction but this may not provide a complete water seal.

**Flashings and Trim:** Rake angles, trims, curbs and flashings are not provided by ROOF HUGGER. Consult your panel manufacturer for the necessary details and required materials to meet their design requirements. ROOF HUGGER is available to discuss any special situations.

**Bridging:** Bracing or bridging may be required where the Hugger height exceeds 3'-1/2". Consult your local engineer for specific requirements for your locale. We can provide details of previous installations upon request.

**Out of Module Existing Roof Panels:** In some rare cases, the existing roof panels may be installed so poorly they do not maintain the proper panel rib spacing (i.e.: a 12" o.c. "R" panel may gain 1/4" per L.F., so in 10' the roof would measure a gain of 1-1/4") The ROOF
HUGGER “notches” are over cut to allow for most conditions, however some cases may exceed our tolerances. If this occurs, the ROOF HUGGER may be cut to allow it to fit properly. Use care to avoid fasteners or clips from falling on the resulting gap, back lap the HUGGERS if necessary.

Installing Over Skylights: DO NOT REMOVE EXISTING SKYLIGHTS prior to installing ROOF HUGGERS. Run HUGGERS across existing skylight and screw into position.

Cut out and trim opening if new skylights are to be installed above, or leave panel in position if skylights are to be eliminated. Removal of skylight prior to installing HUGGERS may result in an undesirable depression of the new roof over the old skylight area.

If skylights are to be installed where interior condensation could be an issue, it is desirable to replace the old skylight with a new one and install another new skylight above it to minimize any condensation issues in this area. Consult your local moisture control professional.

Existing Standing Seam Roofs with Tall Clips and/or Thermal Blocks: Existing roofs that have tall clips (clips that hold the roof ½” to 1½” above the purlin) require special attachment.

A special self-drilling fastener or a fastener with a standoff sleeve will be provided by ROOF HUGGER unless otherwise specified.

Note: Field verify the standoff by drilling a small hole over the purlin and measure the distance between the existing panel and the existing purlin (typically 1”). The number of fasteners per L.F. is determined by the specific project design, generally four (4) fasteners are required every 24” or three (3) fasteners every 16”, however higher loads could require additional attachment. Since the ROOF HUGGER Sub-purlins cannot be pulled down to the existing purlin because of the standoff clip they have been specially designed with an “anti-rotational arm or tab”.

This arm prevents the ROOF HUGGER from rolling front to back under load and it is attached with a #17 fastener into the side of the existing panel high rib. Note that if the anti-roll tab is above the side of the existing high rib the ROOF HUGGER may not be pulled fully down into its correct position.

Also note that more holes may be punched into the base flange than are required for attachment. Eave attachment is generally with ¼”-14 x 1½” Tek-3 (T-3) fasteners since tall clips are not normally used here.
EXISTING FASTENERS:
The existing fasteners can remain provided they do not cause the ROOF HUGGERS to "porpoise" up or roll front to back out of plane with the existing roof.

(Typical "K" Panel installation showing the bending of the bottom flange caused by the existing fastener is normal.)

Fasteners located in the center of the pan of the existing sheet may need to be removed. On an 8"-12" o.c. panel this should only occur at a panel lap, ridge cap or eave area. Narrower ribbed panel such as 6" o.c. panels, with fasteners in the center of the sheet pan, may require removal of all fasteners.

ROOF HUGGER can provide special punching to minimize removal of these fasteners if requested during the pricing and ordering of the HUGGERS.

ROOF HUGGER FASTENERS AND FASTENER PATTERNS: ROOF HUGGERS are typically attached with 3/8"-14, self-drilling, T-3 fasteners, 14 threads per inch, 1-1/8" to 1-1/4" in length 3/4"-14 x 1-1/2". The number of fasteners per L.F. is determined by ROOF HUGGERS project design or as specified by the engineer of record. Generally speaking, (2) fasteners are required per L.F. for proper attachment. Holes are pre-punched in the bottom flange of the HUGGERS for installation of the fasteners. Note: There may be more holes punched in the base flange than are required for attachment. ROOF HUGGER can provide fasteners if requested.

Installing on Existing Corrugated Panels: ROOF HUGGERS Corru-Fit product for existing 2.50", 2.67" and 2.75" corrugated panels up to 1.25" tall is a 2-part system. A 1.25" triangular shaped spacer and a 1.5" tall slotted Zee. Spacer/fastener spacing is per engineering design, (2.75" total assembly height). Call ROOF HUGGER for estimated loads and spacing (subject to review). Lap ends are designed to align and share a common fastener.
Midspan Attachment: When the existing purlin spacing is not adequate to meet code required loads, ROOF HUGGER will supply an Integral Sub-Rafter System or Hat Grid (see Grid Framing). An Integral Sub-Rafter System means the Sub-Rafters are specifically built to fit the cutout provided in the ROOF HUGGER Sub-Purlin.

Sub-Rafter is recommended. The number of fasteners will be per the engineered design. ROOF HUGGERS that are installed “mid-span” between the existing purlins are attached to the Integral Sub-Rafters with ¾”-14 T3 fasteners as specified and if the HUGGERS are to be attached into the old panels the existing ¾” hole in the HUGGER should be drilled out and a #17 fastener installed through the HUGGER into the existing panel, (1) one each side of the major rib. A #10-16 pancake head fastener may also be required between the top flange of the HUGGER and the top of the integral Sub-Rafter.

Existing Purlin Strengthening: HUGGERS have been tested for the effect they have on strengthening the existing purlins to accommodate the weight of the HUGGERS and new roof panel as well as additional code required snow loads and increased wind loads. If required by design, the following explains the proper Hugger lapping conditions.

Should a panel clip fall in the lap area, (2) clip fasteners will replace (2) pancake fasteners provided the clip fasteners penetrate both overlapping flanges of the HUGGER. Higher profile HUGGERS (1” or more of material above the rib cutout) receive (2) #10-16 x 1” (or equal)
Hugger Installation

pancake head, self-drilling fasteners in the top flange lap and (2) \(\frac{3}{4}\)" x 14 x 1-\(\frac{3}{4}\)" T3 in the vertical web.

"Sub-Purlins" and they attach on top of and perpendicular to the sub-rafters. They are normally attached with (2) \(\frac{3}{4}\)" x 14 x 1-\(\frac{3}{4}\)" T3 fasteners. In some cases, fasteners will attach the sub-rafters to the existing roof panels. (See your contract installation drawings for details.)

Eave/Ridge Blocking: To control the direction of motion on floating clip standing seam metal roof systems a "Point of Fixity" is typically required. ROOF HUGGER may specify that one or more purlin lines at the eave or ridge have extra framing to accomplish this. (See detail below or refer to contract drawings for details.)

Grid Framing: When needed in the corners and edges, hat channel grid framing may be used. Hats that run parallel to the existing panel ribs between the existing purlins are called "Sub-Rafters". They are normally installed 12" - 24" o.c. with (4) \(\frac{3}{4}\)" x 14 x 1-\(\frac{3}{4}\)" T3 fasteners into the existing purlins and are designed to transfer the panel loads back to the existing purlins. The hats that run across these members are called

Fastener Types: The following fasteners are those used in typical Roof Hugger installations
Hugger Installation

as indicated below. Please note their specific use as described in this section and manual.

Typical Screw Nomenclature: \( \frac{3}{4}^\prime\prime - 14 \times 1 \frac{1}{4}^\prime\prime \) DP3 or T3 is explained this way: \( \frac{3}{4}^\prime\prime \) is screw diameter, – 14 is threads per inch, x \( 1\frac{1}{4}^\prime\prime \) is length and DP3 or T3 is the type of drilling tip. Please note that in lieu of DP3, Roof Hugger uses Tek-3 or T3 in our standard details and other construction documents to describe any self-drilling screw.

Size: #10-16 X 1" TEK-3
Locations:
A. Attaching Hugger top flange to sub-rafter at corner/edge wind uplift zones
B. At Hugger laps for Purlin Strengthening

Size: #17-14 AB (washer typically not required)
Locations:
A. Attaching Hugger into existing Roof panels at Mid-span locations
B. Securing Hugger anti-rotational arm to existing Trapezoidal SSR panel rib

Size: \( \frac{1}{4}^\prime\prime - 14 \times 1\frac{1}{4}^\prime\prime \) TEK-3
Locations:
A. Attachment of Hugger Sub-Purlin to existing purlin or joist
B. Attachment of Hugger sub-purlin in corner/edge zone to sub-rafter, spanning between existing purlins, to create a mid-span purlin.
C. Securing Hugger anti-rotational arm to existing Vertical Rib SSR panel rib.

Size: ¼"-14 X 2" TEK-3 Special Stand-off Screw
Location: Attachment of Hugger to existing purlin or joist when existing Roof panel is a trapezoidal or vertical rib standing with stand-off clip and thermal spacer. These fasteners are furnished by Roof Hugger.

Size: ¼"-14 X 3" TEK-3 with "Spirol" spacer

When in doubt about any special situation, consult your project architect or engineer first. Roof Hugger is also available to discuss any issues or details. In this manner, problems can be avoided and the highest industry standards of a quality installation will be assured.
Step-by-Step Hugger Installation

Standard Installation (Corner/Edge Zone Framing not required)

Step 1: Install Huggers directly over and into existing building purlins with ¼"-14 TEK-3 self-drilling fasteners. Center existing panel's major rib in Hugger cut-out. Ensure Hugger straightness along purlin run by frequently monitoring dimension from existing Roof eave. Stringlines can be used if elected by installer.

Step 2: Install Metal Roof panel system in accordance with manufacturer's standards
Corner and/or Edge Zone Framing Installation

Step 1: Loosely place Hugger sub-rafters spaced perpendicular to Roof slope as directed (normally no more than 2'-0" o.c.). DO NOT ATTACH sub-rafters until new Huggers have been placed into position.

Step 2: Place new Huggers into position ensuring all new sub-framing is square and tightly fitted. Secure the positioning of the Huggers and sub-rafters by installing one ¼"-14 at juncture of the two members (Hugger top flange into top of sub-rafter). Begin final attachment of members at juncture of the Hugger and sub-rafter’s base flanges for locations that are directly over an existing purlin using ⅛"-14 TEK-3 fasteners at each side of sub-rafter.

Sub-Rafters

#10-16 X 1” DF3 Pancake from Hugger top flange into sub-rafter top

¼"-14 DF3 into existing purlin at sub-rafter connections
Step 3: Begin positioning mid-span Huggers as directed. These are the Huggers that will not be installed over an existing purlin, rather over the existing panel only. Once in place, install a #17-14 AB fasteners through the Hugger into the existing Roof panel at each side of the panel's major rib. Pre-drilling of Hugger may be necessary. Complete installation by installing a #10-16 TEK-3 Pancake at the intersection of each Hugger and sub-rafter. Refer to page 34 for more information.

Step 3: Install metal Roof panel system in accordance with manufacturer’s standards.
Corner and/or Edge Zone Framing Installation using Structural Hats

Dependent on panel clip attachment and wind uplift tested values, usually in higher wind zone areas, Roof Hugger will have to utilize structural 16 GA hat-shaped members to make up the corner and/or edge zone framing. The illustration below explains the difference, but you can review page 66 for more detailed information.
Hugger Installation

RECEIVING MATERIALS:
ROOF HUGGERS are typically placed on wood pallets 3'-5' wide and approximately 10' long weighing up to 5,000 lbs. ROOF HUGGERS are shipped via closed van for "LTL" less than truckload quantities or flatbed for truckload quantities. The installer is responsible for unloading the material and providing the suitable equipment to safely unload the material from the delivery truck.

Upon receipt of material, check for damage; if damage is found, please note the damage on the carriers Bill of Lading at the time of delivery. Notify ROOF HUGGER, Inc. of this damage within 48 hours.

HANDLING: Proper care is required while unloading to prevent personal injury or material damage. Band straps should never be used for pulling or lifting of the pallets. If the pallets are to be lifted onto the roof, confirm the structure has adequate capacity first. If the structure is capable, the pallet should only be placed above the existing structural frames, 1-pallet per frame maximum unless otherwise directed by the engineer of record for the project.

INSTALLATION: Unless otherwise noted, install Huggers only directly over and into existing purlins through the existing panel pan section. (HUGGERS are normally installed with the top flange pointing up the roof slope.)

Wherever possible, layout new panels as to minimize the possibility of new panel fasteners or attachment clips from falling on the cut ends of the ROOF HUGGERS. Standing seam systems can be ordered with a narrower starter panel to offset the new panel from the existing panel module. If landing on the cut ends is unavoidable, then attach the adjacent HUGGERS overlapping top flange ends with (2) #10 pancake head fasteners in addition to the clip fasteners or back lap the HUGGERS one full corrugation to produce a double thickness and continuity of the top flange across the lap.

SPECIAL CONSIDERATIONS: Weathertightness: During erection, prior to the installation of the new roof panel the ROOF HUGGERS are NOT WEATHERTIGHT. It is recommended that only the amount of HUGGERS to be covered with new roof panels be installed in a given workday. Mastic can be placed beneath the ROOF HUGGERS at the attachment points to minimize water intrusion during construction but this may not provide a complete water seal.

Flashings and Trim: Rake angles, trims, curbs and flashings are not provided by ROOF HUGGER. Consult your panel manufacturer for the necessary details and required materials to meet their design requirements. ROOF HUGGER is available to discuss any special situations.

Bridging: Bracing or bridging may be required where the Hugger height exceeds 3-3/4". Consult your local engineer for specific requirements for your locale. We can provide details of previous installations upon request.

Out of Module Existing Roof Panels: In some rare cases, the existing roof panels may be installed so poorly the they do not maintain the proper panel rib spacing (i.e.: a 12" o.c. "R" panel may gain 1/4" per L.F., so in 10' the roof would measure a gain of 1-3/4") The ROOF
HUGGER “notches” are over cut to allow for most conditions, however some cases may exceed our tolerances. If this occurs, the ROOF HUGGER may be cut to allow it to fit properly. Use care to avoid fasteners or clips from falling on the resulting gap, back lap the HUGGERS if necessary.

Installing Over Skylights: DO NOT REMOVE EXISTING SKYLIGHTS prior to installing ROOF HUGGERS. Run HUGGERS across existing skylight and screw into position.

Cut out and trim opening if new skylights are to be installed above, or leave panel in position if skylights are to be eliminated. Removal of skylight prior to installing HUGGERS may result in an undesirable depression of the new roof over the old skylight area.

If skylights are to be installed where interior condensation could be an issue, it is desirable to replace the old skylight with a new one and install another new skylight above it to minimize any condensation issues in this area. Consult your local moisture control professional.

Existing Standing Seam Roofs with Tall Clips and/or Thermal Blocks:
Existing roofs that have tall clips (clips that hold the roof ½” to 1½” above the purlin) require special attachment.

A special self-drilling fastener or a fastener with a standoff sleeve will be provided by ROOF HUGGER unless otherwise specified.

Note: Field verify the standoff by drilling a small hole over the purlin and measure the distance between the existing panel and the existing purlin (typically 1”). The number of fasteners per L.F. is determined by the specific project design, generally four (4) fasteners are required every 24” or three (3) fasteners every 16”, however higher loads could require additional attachment. Since the ROOF HUGGER Sub-purlins cannot be pulled down to the existing purlin because of the standoff clip they have been specially designed with an “anti-rotational arm or tab”.

This arm prevents the ROOF HUGGER from rolling front to back under load and it is attached with a #17 fastener into the side of the existing panel high rib. Note that if the anti-roll tab is above the side of the existing high rib the ROOF HUGGER may not be pulled fully down into its correct position.

Also note that more holes may be punched into the base flange than are required for attachment. Eave attachment is generally with ¼”-14 x 1-½” Tek-3 (T-3) fasteners since tail clips are not normally used here.
EXISTING FASTENERS:
The existing fasteners can remain provided they
do not cause the ROOF HUGGERS to "porpoise" up or roll front to back out of plane with the
existing roof.

(Typical "R" Panel installation showing the bending of the bottom flange caused by the existing fastener is normal.)

Fasteners located in the center of the pan of the existing sheet may need to be removed. On an 8"-12" o.c. panel this should only occur at a panel lap, ridge cap or eave area. Narrower ribbed panel such as 6" o.c. panels, with fasteners in the center of the sheet pan, may require removal of all fasteners.

ROOF HUGGER can provide special punching to minimize removal of these fasteners if requested during the pricing and ordering of the HUGGERS.

ROOF HUGGER FASTENERS AND FASTENER PATTERNS: ROOF HUGGERS are typically attached with 3/8"-14, self-drilling, T-3 fasteners, 14 treads per inch, 1-1/4" to 1-3/8" in length 3/8"-14 x 1-3/8". The number of fasteners per L.F. is determined by ROOF HUGGERS project design or as specified by the engineer of record. Generally speaking, (2) fasteners are required per L.F. for proper attachment. Holes are pre-punched in the bottom flange of the HUGGERS for installation of the fasteners. Note: There may be more holes punched in the base flange than are required for attachment. ROOF HUGGER can provide fasteners if requested.

Installing on Existing Corrugated Panels: ROOF HUGGERS Corru-Fit product for existing 2.50", 2.67" and 2.75" corrugated panels up to 1.25" tall is a 2-part system. A 1.25" triangular shaped spacer and a 1.5" tall slotted Zee. Spacer/fastener spacing is per engineering design, (2.75" total assembly height). Call ROOF HUGGER for estimated loads and spacing (subject to review). Lap ends are designed to align and share a common fastener.
Hugger Installation

Midspan Attachment: When the existing purlin spacing is not adequate to meet code required loads, ROOF HUGGER will supply an Integral Sub-Rafter System or Hat Grid (see Grid Framing). An Integral Sub-Rafter System means the Sub-Rafters are specifically built to fit the cutout provided in the ROOF HUGGER Sub-Purlin.

Sub-Rafter is recommended. The number of fasteners will be per the engineered design. ROOF HUGGERS that are installed “mid-span” between the existing purlins are attached to the Integral Sub-Rafters with ¾”-14 T3 fasteners as specified and if the HUGGERS are to be attached into the old panels the existing ¾” hole in the HUGGER should be drilled out and a #17 fastener installed through the HUGGER into the existing panel, (1) one each side of the major rib. A #10-16 pancake head fastener may also be required between the top flange of the HUGGER and the top of the Integral Sub-Rafter.

Existing Purlin Strengthening: HUGGERS have been tested for the effect they have on strengthening the existing purlins to accommodate the weight of the HUGGERS and new roof panel as well as additional code required snow loads and increased wind loads. If required by design, the following explains the proper Hugger lapping conditions.

Should a panel clip fall in the lap area, (2) clip fasteners will replace (2) pancake fasteners provided the clip fasteners penetrate both overlapping flanges of the HUGGER. Higher profile HUGGERS (1” or more of material above the rib cutout) receive (2) #10-16 x 1” (or equal)

Note: If integral (fit under the HUGGERS) structural Sub-Rafters are provided, loosely place hats and HUGGERS in position prior to installing any fasteners to prevent alignment problems in these areas.

The Sub-Rafters will typically fit over the top of the major panel Ribs between 12”-24” centers. The Sub-Rafters will span from existing purlin to existing purlin and the ROOF HUGGERS will be placed on and into these members. The parts over the existing purlins will have ¾”-14 T3 fasteners installed through the HUGGERS, through the Integral Sub-Rafter, through the existing roof panel and into the existing purlin. Oversize pre-drilling of the HUGGERS at Integral
pancake head, self-drilling fasteners in the top flange lap and (2) \( \frac{3}{4}'' \times 14 \times 1-\frac{1}{2}'' \) T3 in the vertical web.

"Sub-Purlins" and they attach on top of and perpendicular to the sub-rafters. They are normally attached with (2) \( \frac{3}{4}'' \times 14 \times 1-\frac{1}{2}'' \) T3 fasteners. In some cases, fasteners will attach the sub-rafters to the existing roof panels. (See your contract installation drawings for details.)

Grid Framing: When needed in the corners and edges, hat channel grid framing may be used. Hats that run parallel to the existing panel ribs between the existing purlins are called "Sub-Rafters". They are normally installed 12" - 24" o.c. with (4) \( \frac{3}{4}'' \times 14 \times 1\frac{1}{4}'' \) T3 fasteners into the existing purlins and are designed to transfer the panel loads back to the existing purlins. The hats that run across these members are called

Eave/Ridge Blocking: To control the direction of motion on floating clip standing seam metal roof systems a "Point of Fixity" is typically required. ROOF HUGGER may specify that one or more purlin lines at the eave or ridge have extra framing to accomplish this. (See detail below or refer to contract drawings for details.)

Fastener Types: The following fasteners are those used in typical Roof Hugger installations.
Hugger Installation

as indicated below. Please note their specific use as described in this section and manual.

Typical Screw Nomenclature: ¼” -14 x 1 ⅛” DP3 or T3 is explained this way: ¼” is screw diameter, 14 is threads per inch, x 1 ⅛” is length and DP3 or T3 is the type of drilling tip. Please note that in lieu of DP3, Roof Hugger uses Tek-3 or T3 in our standard details and other construction documents to describe any self-drilling screw.

Size: #10-16 X 1” TEK-3

Locations:
A. Attaching Hugger top flange to sub-rafter at corner/edge wind uplift zones
B. At Hugger laps for Purlin Strengthening

Size: #17-14 AB (washer typically not required)

Locations:
A. Attaching Hugger into existing Roof panels at Mid-span locations
B. Securing Hugger anti-rotational arm to existing Trapezoidal SSR panel rib

Size: ⅛”-14 X 1½” TEK-3

Locations:
A. Attachment of Hugger Sub-Purlin to existing purlin or joist
B. Attachment of Hugger sub-purlin in corner/edge zone to sub-rafter, spanning between existing purlins, to create a mid-span purlin.
C. Securing Hugger anti-rotational arm to existing Vertical Rib SSR panel rib.

Size: ⅛”-14 X 2” TEK-3 Special Stand-off Screw

Location: Attachment of Hugger to existing purlin or joist when existing Roof panel is a trapezoidal or vertical rib standing with stand-off clip and thermal spacer. These fasteners are furnished by Roof Hugger.

Size: ⅛”-14 X 3” TEK-3 with “Spirol” spacer

When in doubt about any special situation, consult your project architect or engineer first. Roof Hugger is also available to discuss any issues or details. In this manner, problems can be avoided and the highest industry standards of a quality installation will be assured.
Standard Installation (Corner/Edge Zone Framing not required)

Step 1: Install Huggers directly over and into existing building purlins with 3/4"-14 TEK-3 self-drilling fasteners. Center existing panel's major rib in Hugger cut-out. Ensure Hugger straightness along purlin run by frequently monitoring dimension from existing Roof eave. Stringlines can be used if elected by Installer.

Step 2: Install metal Roof panel system in accordance with manufacturer's standards
Corner and/or Edge Zone Framing Installation

Step 1: Loosely place Hugger sub-rafters spaced perpendicular to Roof slope as directed (normally no more than 2'-0" o.c.). DO NOT ATTACH sub-rafters until new Huggers have been placed into position.

Step 2: Place new Huggers into position ensuring all new sub-framing is square and tightly fitted. Secure the positioning of the Huggers and sub-rafters by installing one ⅜"-14 at juncture of the two members (Hugger top flange into top of sub-rafter). Begin final attachment of members at juncture of the Hugger and sub-rafter’s base flanges for locations that are directly over an existing purlin using ⅜"-14 TEK-3 fasteners at each side of sub-rafter.
Step 3: Begin positioning mid-span Huggers as directed. These are the Huggers that will not be installed over an existing purlin, rather over the existing panel only. Once in place, install a #17-14 A8 fasteners through the Hugger into the existing Roof panel at each side of the panel's major rib. Pre-drilling of Hugger may be necessary. Complete installation by installing a #10-16 TEK-3 Pancake at the intersection of each Hugger and sub-rafter. Refer to page 34 for more information.

Step 3: Install metal Roof panel system in accordance with manufacturer's standards.
Corner and/or Edge Zone Framing Installation using Structural Hats

Dependent on panel clip attachment and wind uplift tested values, usually in higher wind zone areas, Roof Hugger will have to utilize structural 16 GA hat-shaped members to make up the corner and/or edge zone framing. The illustration below explains the difference, but you can review page 66 for more detailed information.

Butt Hugger to Hat Purlin

Special 16 GA Hat Purlin with 2) 3/8-14 DP3

Special 16 GA Sub-Rafter with 2) 3/8-
14 DP3 into existing purlin (both sides - 4 total)
SECTION 07200
BUILDING INSULATION

1. GENERAL

1.01 WORK SCOPE

A. Work included: Perform all work necessary and required for the construction of the project as indicated. Such work includes, but is not limited to, the following:

1. Fibrous Batt or Blanket Insulation
2. Fibrous Loose Fill Insulation (Blown)
3. Rigid Insulation (for furred concrete walls)
4. Polyethylene Vapor Barrier

1.02 REQUIREMENTS OF REGULATORY AGENCIES

A. In addition to standards set forth in Section 01000 GENERAL REQUIREMENTS; materials and methods of installation shall comply with requirements of fire underwriter agencies, utility company standards, and insurance rating bureaus having jurisdiction over this project.

2. PRODUCT

2.10 PRODUCT SCOPE

A. Materials included:

1. Fibrous Batt or Blanket Insulation: Fibrous Batt or Blanket Insulation shall be as manufactured by Owens Corning, Johns-Manville or approved equal. The attached vapor barrier on any fibrous or blanket insulation shall have a maximum perm of one (1).

2. Fibrous Loose Fill Insulation: Fibrous loose fill insulation shall be manufactured by Owens Corning, Johns-Manville or approved equal.

3. Rigid Insulation: Rigid insulation used when concrete walls are furred out shall be 3/4 inch thick polystyrene as manufactured by Hagen or approved equal. Polystyrene shall conform to Federal Specification H H-1-524.

4. Polyethylene Vapor Barrier: Polyethylene vapor Barriers shall be a minimum of 4 mil thick; be fungus and decay resistant; be resistant to puncture, tear and sun exposure; and shall have a flame spread rating of 24 (self extinguishing).

B. General "R" Value Requirements:

1. Fibrous Batt or Blanket Insulation:

- Floors (cold to hot - vented): Insulation shall be a minimum R-30 with attached vapor barrier.
- Floors (cold to hot - not vented): Insulation shall be minimum R-30 with attached vapor barrier.

- Floors (sound control): Insulation shall be minimum R-11 with attached vapor barrier.

- Walls (cold to hot): Insulation shall be minimum R-21. A polyethylene barrier, minimum of 4 mil thick shall be used in conjunction with the insulation.
- Walls (sound control): Insulation shall be minimum R-11 with attached vapor barrier.
- Overhangs (cold to hot): Insulation shall be minimum R-38 with attached vapor barrier.
- Ceilings (cold to hot): Insulation shall be minimum R-38 with attached vapor barrier.

2. Fibrous Loose Fill Insulation (Blown):

- Walls (cold to hot): Insulation shall be full thickness to attain an R value of 21 minimum. A polyethylene vapor barrier, minimum of 4 mil thick shall be used in conjunction with the insulation.

3. Rigid Insulation: The 3/4 inch thick polystyrene shall have a minimum R value of 3.1 minimum. A polyethylene vapor barrier a minimum of 4 mil thick shall be used in conjunction with the insulation.

3. EXECUTION

3.01 CONDITION OF STRUCTURE

A. The contractor shall be responsible to check that all other related adjacent work has been completed and that construction has progressed to the point that weather conditions will not damage or wet the insulation material. Should there be any discrepancies, report same in writing to the Rehabilitation Specialist. In the event of failure to do so, the contractor shall be responsible for labor, material, and replacement at no additional expense to the Owner. Contractor will also be responsible for areas disturbed by related adjacent work being performed and/or material damaged due to lack of protection from weather conditions.

3.02 CONSTRUCTION AND WORKMANSHIP

A. All workmanship and building procedures shall conform to applicable Codes, Manufacturer's Recommendations and good building practices in order to complete all insulation work as intended by the contract drawings and specifications. The Contractor shall maintain a clean and orderly site at all times and shall dispose of waste products from all areas of work on a daily basis. Upon completion of each work phase, units shall be left "push broom" clean.

3.03 TESTS

A. When blown insulation is installed, the Town of Plainfield may require a conformance test by removing and weighing a specific amount to determine that the required density has been met. The first test shall be at the Town's expense if the results conform to the applicable specifications. If the results of the first test do not meet the specified requirements, then the cost of the second test and all subsequent tests, until the specified requirements are met, shall be borne by the Contractor.

3.04 GUARANTEE

A. The Contractor agrees that any manufacturer's guarantee applying to products furnished by and/or installed by the Subcontractor are extended to the Owner. The Contractor guarantees to perform repairs of faulty workmanship within one year of Certificate of Occupancy or eighteen months following completion and acceptance by the Owner and the Office of Community Development, whichever shall first occur.

END OF SECTION 07200
Minimum Rates and Classifications for Building

Connecticut Department of Labor
Wage and Workplace Standards

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

<table>
<thead>
<tr>
<th>Project</th>
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<tbody>
<tr>
<td>State#:</td>
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<td>Project Town: Plainfield</td>
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Project: Highway Garage

<table>
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<tr>
<th>CLASSIFICATION</th>
<th>Hourly</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>1a) Asbestos Worker/Insulator (Includes application of insulating materials, protective coverings, coatings, &amp; finishes to all types of mechanical systems; application of firestopping material for wall openings &amp; penetrations in walls, floors, ceilings)</td>
<td>38.25</td>
<td>27.96</td>
</tr>
<tr>
<td>1b) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters.<strong>See Laborers Group 7</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1c) Asbestos Worker/Heat and Frost Insulator</td>
<td>40.21</td>
<td>30.99</td>
</tr>
<tr>
<td>2) Boilermaker</td>
<td>38.34</td>
<td>26.01</td>
</tr>
<tr>
<td>3a) Bricklayer, Cement Mason, Concrete Finisher (including caulking), Stone Masons</td>
<td>35.71</td>
<td>33.31 + a</td>
</tr>
<tr>
<td>3b) Tile Setter</td>
<td>34.9</td>
<td>25.87</td>
</tr>
<tr>
<td>3c) Terrazzo Mechanics and Marble Setters</td>
<td>31.69</td>
<td>22.35</td>
</tr>
<tr>
<td>3d) Tile, Marble &amp; Terrazzo Finishers</td>
<td>26.7</td>
<td>21.75</td>
</tr>
<tr>
<td>3e) Plasterer</td>
<td>33.48</td>
<td>32.06</td>
</tr>
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</table>

-----LABORERS-----

4) Group 1: Laborers (common or general), acetylene burners, carpenter tenders, concrete specialists, wrecking laborers, fire watchers. | 30.75 | 20.84 |

As of: February 14, 2020
<table>
<thead>
<tr>
<th>Group</th>
<th>Description</th>
<th>Rate 1</th>
<th>Rate 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>4a)</td>
<td>Group 2: Mortar mixers, plaster tender, power buggy operators, powdermen, fireproof/mixer/nozzleman (Person running mixer and spraying fireproof only).</td>
<td>31.0</td>
<td>20.84</td>
</tr>
<tr>
<td>4b)</td>
<td>Group 3: Jackhammer operators/pavement breaker, mason tender (brick), mason tender (cement/concrete), forklift operators and forklift operators (masonry).</td>
<td>31.25</td>
<td>20.84</td>
</tr>
<tr>
<td>4c)</td>
<td><strong>Group 4: Pipelayers (Installation of water, storm drainage or sewage lines outside of the building line with P6, P7 license) (the pipelayer rate shall apply only to one or two employees of the total crew who primary task is to actually perform the mating of pipe sections) P6 and P7 rate is $26.80.</strong></td>
<td>31.75</td>
<td>20.84</td>
</tr>
<tr>
<td>4d)</td>
<td>Group 5: Air track operator, sand blaster and hydraulic drills.</td>
<td>31.5</td>
<td>20.84</td>
</tr>
<tr>
<td>4e)</td>
<td>Group 6: Blasters, nuclear and toxic waste removal.</td>
<td>33.75</td>
<td>20.84</td>
</tr>
<tr>
<td>4f)</td>
<td>Group 7: Asbestos/lead removal and encapsulation (except it's removal from mechanical systems which are not to be scrapped).</td>
<td>31.75</td>
<td>20.84</td>
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<tr>
<td>4g)</td>
<td>Group 8: Bottom men on open air caisson, cylindrical work and boring crew.</td>
<td>29.03</td>
<td>20.84</td>
</tr>
<tr>
<td>4h)</td>
<td>Group 9: Top men on open air caisson, cylindrical work and boring crew.</td>
<td>28.49</td>
<td>20.84</td>
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<tr>
<td>4i)</td>
<td>Group 10: Traffic Control Signalman</td>
<td>18.0</td>
<td>20.84</td>
</tr>
<tr>
<td>5a)</td>
<td>Carpenter, Acoustical Ceiling Installation, Soft Floor/Carpet Laying, Metal Stud Installation, Form Work and Scaffold Building, Drywall Hanging, Modular-Furniture Systems Installers, Lathers, Piledrivers, Resilient Floor Layers.</td>
<td>33.53</td>
<td>25.66</td>
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<tr>
<td>5a)</td>
<td>Millwrights</td>
<td>34.94</td>
<td>26.19</td>
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<tr>
<td>6)</td>
<td>Electrical Worker (including low voltage wiring) (Trade License required: E1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)</td>
<td>40.0</td>
<td><strong>27.67+3% of gross wage</strong></td>
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<tr>
<td>7a)</td>
<td>Elevator Mechanic (Trade License required: R-1,2,5,6)</td>
<td>53.37</td>
<td>33.705+a+b</td>
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---LINE CONSTRUCTION---

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<tbody>
<tr>
<td>Groundman</td>
<td>26.5</td>
<td>6.5% + 9.00</td>
</tr>
<tr>
<td>Linemen/Cable Splicer</td>
<td>48.19</td>
<td>6.5% + 22.00</td>
</tr>
</tbody>
</table>

As of: February 14, 2020
| Group 1: Crane handling or erecting structural steel or stone, hoisting engineer 2 drums or over, front end loader (7 cubic yards or over), work boat 26 ft. and over and Tunnel Boring Machines. (Trade License Required) | 40.97 | 24.80 + a |
| Group 2: Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver ($3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required) | 40.64 | 24.80 + a |
| Group 3: Excavator; Backhoe/Excavator under 2 cubic yards; Cranes (under 100 ton rate capacity), Grader/Blade; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar); Grader Operator; Bulldozer Fine Grade. (slopes, shaping, laser or GPS, etc.). (Trade License Required) | 39.88 | 24.80 + a |
| Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper). | 39.48 | 24.80 + a |
| Group 5: Specialty Railroad Equipment; Asphalt Paver; Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24 Directional Driller; Pile Testing Machine. | 38.87 | 24.80 + a |
| Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller; Pile Testing Machine. | 38.87 | 24.80 + a |
| Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer). | 38.55 | 24.80 + a |
| Group 7: Asphalt roller, concrete saws and cutters (ride on types), Vermeer concrete cutter, Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24) | 38.2 | 24.80 + a |
| Group 8: Mechanic, grease truck operator, hydroblaster; barrier mower; power stone spreader; welding; work boat under 26 ft.; transfer machine. | 37.79 | 24.80 + a |
| Group 9: Front end loader (under 3 cubic yards), skid steer loader regardless of attachments, (Bobcat or Similar): forklift, power chipper; landscape equipment (including Hydroseeder). | 37.34 | 24.80 + a |
| Group 10: Vibratory hammer; ice machine; diesel and air, hammer, etc. | 35.24 | 24.80 + a |

**As of:** February 14, 2020
<table>
<thead>
<tr>
<th>Group</th>
<th>Description</th>
<th>Rate</th>
<th>Hourly Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Conveyor, earth roller, power pavement breaker (whiphammer), robot demolition equipment</td>
<td>35.24</td>
<td>24.80 + a</td>
</tr>
<tr>
<td>12</td>
<td>Wellpoint operator.</td>
<td>35.18</td>
<td>24.80 + a</td>
</tr>
<tr>
<td>13</td>
<td>Compressor battery operator.</td>
<td>34.58</td>
<td>24.80 + a</td>
</tr>
<tr>
<td>14</td>
<td>Elevator operator; tow motor operator (solid tire no rough terrain).</td>
<td>33.41</td>
<td>24.80 + a</td>
</tr>
<tr>
<td>15</td>
<td>Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.</td>
<td>32.99</td>
<td>24.80 + a</td>
</tr>
<tr>
<td>16</td>
<td>Maintenance Engineer/Oiler.</td>
<td>32.32</td>
<td>24.80 + a</td>
</tr>
<tr>
<td>17</td>
<td>Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.</td>
<td>36.76</td>
<td>24.80 + a</td>
</tr>
<tr>
<td>18</td>
<td>Power safety boat; vacuum truck; zim mixer; sweeper; (Minimum for any job requiring a CDL license).</td>
<td>34.26</td>
<td>24.80 + a</td>
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</table>

---PAINTERS (Including Drywall Finishing)----

<table>
<thead>
<tr>
<th>Group</th>
<th>Description</th>
<th>Rate</th>
<th>Hourly Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>10a</td>
<td>Brush and Roller</td>
<td>34.62</td>
<td>21.80</td>
</tr>
<tr>
<td>10b</td>
<td>Taping Only/Drywall Finishing</td>
<td>35.37</td>
<td>21.80</td>
</tr>
<tr>
<td>10c</td>
<td>Paperhanger and Red Label</td>
<td>34.12</td>
<td>21.05</td>
</tr>
<tr>
<td>10e</td>
<td>Blast and Spray</td>
<td>36.62</td>
<td>21.05</td>
</tr>
<tr>
<td>11</td>
<td>Plumber (excluding HVAC pipe installation) (Trade License required: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2)</td>
<td>43.62</td>
<td>32.06</td>
</tr>
<tr>
<td>12</td>
<td>Well Digger, Pile Testing Machine</td>
<td>37.26</td>
<td>24.05 + a</td>
</tr>
<tr>
<td>13</td>
<td>Roofer (composition)</td>
<td>37.6</td>
<td>20.65</td>
</tr>
<tr>
<td>14</td>
<td>Roofer (slate &amp; tile)</td>
<td>38.1</td>
<td>20.65</td>
</tr>
<tr>
<td>15</td>
<td>Sheetmetal Worker (Trade License required for HVAC and Ductwork: SM-1,SM-2,SM-3,SM-4,SM-5,SM-6)</td>
<td>37.98</td>
<td>38.31</td>
</tr>
</tbody>
</table>

*As of: February 14, 2020*
<table>
<thead>
<tr>
<th>16) Pipefitter (Including HVAC work) (Trade License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4, G-1, G-2, G-8 &amp; G-9)</th>
<th>43.62</th>
<th>32.06</th>
</tr>
</thead>
<tbody>
<tr>
<td>17a) 2 Axle</td>
<td>29.51</td>
<td>24.52 + a</td>
</tr>
<tr>
<td>17b) 3 Axle, 2 Axle Ready Mix</td>
<td>29.62</td>
<td>24.52 + a</td>
</tr>
<tr>
<td>17c) 3 Axle Ready Mix</td>
<td>29.67</td>
<td>24.52 + a</td>
</tr>
<tr>
<td>17d) 4 Axle, Heavy Duty Trailer up to 40 tons</td>
<td>29.72</td>
<td>24.52 + a</td>
</tr>
<tr>
<td>17e) 4 Axle Ready Mix</td>
<td>29.77</td>
<td>24.52 + a</td>
</tr>
<tr>
<td>17f) Heavy Duty Trailer (40 Tons and Over)</td>
<td>29.98</td>
<td>24.52 + a</td>
</tr>
<tr>
<td>17g) Specialized Earth Moving Equipment (Other Than Conventional Type on-the-Road Trucks and Semi-Trailers, Including Euclids)</td>
<td>29.77</td>
<td>24.52 + a</td>
</tr>
<tr>
<td>18) Sprinkler Fitter (Trade License required: F-1,2,3,4)</td>
<td>45.57</td>
<td>24.33 + a</td>
</tr>
<tr>
<td>19) Theatrical Stage Journeyman</td>
<td>25.76</td>
<td>7.34</td>
</tr>
</tbody>
</table>

As of: February 14, 2020
Welders: Rate for craft to which welding is incidental.
*Note: Hazardous waste removal work receives additional $1.25 per hour for truck drivers.

ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra $4.00 premium in addition to the hourly wage rate and benefit contributions:

1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)
2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson

<table>
<thead>
<tr>
<th>Crane Description</th>
<th>Extra Premium</th>
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<tbody>
<tr>
<td>Crane with 150 ft. boom (including jib)</td>
<td>$1.50 extra</td>
</tr>
<tr>
<td>Crane with 200 ft. boom (including jib)</td>
<td>$2.50 extra</td>
</tr>
<tr>
<td>Crane with 250 ft. boom (including jib)</td>
<td>$5.00 extra</td>
</tr>
<tr>
<td>Crane with 300 ft. boom (including jib)</td>
<td>$7.00 extra</td>
</tr>
<tr>
<td>Crane with 400 ft. boom (including jib)</td>
<td>$10.00 extra</td>
</tr>
</tbody>
</table>

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

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 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.

As of: February 14, 2020
Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clause (29 CFR 5.5 (a) (1) (ii)).

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

As of: February 14, 2020
STATUTE 31-55a

- SPECIAL NOTICE -

To: All State and Political Subdivisions, Their Agents, and Contractors

Connecticut General Statute 31-55a - Annual adjustments to wage rates by contractors doing state work.

Each contractor that is awarded a contract on or after October 1, 2002, for (1) the construction of a state highway or bridge that falls under the provisions of section 31-54 of the general statutes, or (2) the construction, remodeling, refinishing, refurbishing, rehabilitation, alteration or repair of any public works project that falls under the provisions of section 31-53 of the general statutes shall contact the Labor Commissioner on or before July first of each year, for the duration of such contract, to ascertain the prevailing rate of wages on an hourly basis and the amount of payment or contributions paid or payable on behalf of each mechanic, laborer or worker employed upon the work contracted to be done, and shall make any necessary adjustments to such prevailing rate of wages and such payment or contributions paid or payable on behalf of each such employee, effective each July first.

- The prevailing wage rates applicable to any contract or subcontract awarded on or after October 1, 2002 are subject to annual adjustments each July 1st for the duration of any project which was originally advertised for bids on or after October 1, 2002.
- Each contractor affected by the above requirement 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 Web Site. The annual adjustments will be posted on the Department of Labor Web page: www.ctdol.state.ct.us. 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.

Any questions should be directed to the Contract Compliance Unit, Wage and Workplace Standards Division, Connecticut Department of Labor, 200 Folly Brook Blvd., Wethersfield, CT 06109 at (860)263-6790.
OSHA 10-ATTACH CARD TO 1ST CERTIFIED PORTABLE

<table>
<thead>
<tr>
<th>PROJECTS</th>
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**WEBSITE PORTAL**

FAVORABLE CERTIFICATION FOR PUBLIC WORKS PROJECTS

[Signature]

[Stamp]

[Date]

[Company Name]

[Address]

[City, State, Zip]

[Telephone]

[Email]
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.
• **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 erecter (except metal bridge rail (traffic), decorative security fence (non-metal).
• **SHEETMETAL WORKERS**

Fabricate, assembles, installs and repairs 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, facia, 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 requires 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.*
In accordance with Connecticut General Statutes, 31-53, Certified Payrolls with a statement of compliance shall be submitted monthly to the contracting agency.

PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS

WEEKLY PAYROLL

<table>
<thead>
<tr>
<th>CONTRACTOR NAME AND ADDRESS</th>
<th>SUBCONTRACTOR NAME &amp; ADDRESS</th>
<th>WORKER'S COMPENSATION INSURANCE CARRIER</th>
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<tr>
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<th>Week-Ending Date</th>
<th>PROJECT NAME &amp; ADDRESS</th>
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<tr>
<th>PERSON/WORKER, ADDRESS and SECTION</th>
<th>APPRAISAL RATE %</th>
<th>MALE / FEMALE AND RACE*</th>
<th>WORK CLASSIFICATION</th>
<th>TRADE LICENSE TYPE &amp; NUMBER - OSHA 10 Certification Number</th>
<th>DAY AND DATE</th>
<th>HOURS WORKED EACH DAY</th>
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<tr>
<th>Total ST Hours</th>
<th>BASE HOURLY RATE</th>
<th>TYPE OF FRINGE BENEFITS PER Hour 1 through 6 (see back)</th>
<th>TOTAL FRINGE PLAN CASH</th>
<th>GROSS PAY FOR ALL WORK PERFORMED THIS WEEK</th>
<th>TOTAL DEDUCTIONS</th>
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<tr>
<th>Date</th>
<th>Base Rate</th>
<th>Cash Fringe</th>
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12/9/2013 *IF REQUIRED

WWS-CP1

*SEE REVERSE SIDE

OSHA 10 - ATTACH CARD TO 1ST CERTIFIED PAYROLL
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<thead>
<tr>
<th>PERSON/WORKER, ADDRESS and SECTION</th>
<th>APPR RATE %</th>
<th>MALE/ FEMALE AND RACE*</th>
<th>WORK CLASSIFICATION</th>
<th>DAY AND DATE</th>
<th>TOTAL ST HOURS</th>
<th>BASE HOURLY RATE</th>
<th>TYPE OF FRINGE BENEFITS</th>
<th>TOTAL FRINGE</th>
<th>GROSS PAY FOR ALL WORK PERFORMED THIS WEEK</th>
<th>TOTAL DEDUCTIONS</th>
<th>GROSS PAY FOR THIS PREVAILING RATE JOB</th>
<th>CHECK # AND NET PAY</th>
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*IF REQUIRED

12/9/2013
WWS-CP1
NOTICE: THIS PAGE MUST BE ACCOMPANIED BY A COVER PAGE (FORM # WWS-CP1)
*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
2) Pension or retirement
3) Life Insurance
4) Disability
5) Vacation, holiday
6) Other (please specify)

CERTIFIED STATEMENT OF COMPLIANCE

For the week ending date of _______________________

I, ________________________ of _______________________, (hereafter known as Employer) in my capacity as ________________________ (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 person 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 person 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 person 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 persons name first appears.

_________________________  ________________________  _______________________
(Signature)                  (Title)                     Submitted on (Date)

***THIS IS A PUBLIC DOCUMENT***
***DO NOT INCLUDE SOCIAL SECURITY NUMBERS***
SECTION 16750
BID FORM

TOWN OF PLAINFIELD PUBLIC WORKS ROOF REPLACEMENT PROJECT

BID DUE DATE: THURSDAY, MARCH 12, 2020 @ 11:00 a.m.

PROJECT ADDRESS: 47 Unity Street, Moosup, Ct.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Demolition &amp; Removals</td>
<td>$</td>
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<tr>
<td>2. Roofing</td>
<td>$</td>
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<tr>
<td>3. Insulation</td>
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<tr>
<td>4. Miscellaneous</td>
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**ADDENDA #**

<table>
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<th>DATE RECEIVED</th>
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GRAND TOTAL OF BID  (To the nearest dollar amount)  $______________

The undersigned Contractor agrees to furnish all material and labor necessary for the completion of the work (specified above) on the premises located at the above address. All parties agree that all work will be completed in accordance with all applicable local building, fire and health codes.

<table>
<thead>
<tr>
<th>Company name:</th>
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<tbody>
<tr>
<td>Address:</td>
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<td>Telephone #:</td>
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<td>FAX #:</td>
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<td>FEIN or SSAN#:</td>
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<td>Contractor Reg. #:</td>
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<td>Signature:</td>
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