

Project Manual
Bid Set



Project: Bid No. 9815 Troy School District 2015
Roof Restoration Project Districtwide

Owner: Troy School District
4400 Livernois
Troy, MI 48098

Date: 11/03/15

Prepared by



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Locations:
Los Angeles, CA

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PROJECT DIRECTORY

Troy School District:

Troy School District
4400 Livernois
Troy, MI 48098

Contact: Todd Hensley - Procurement
Phone: (248) 823- 4091
Email: THensley@troy.k12.mi.us

Contact: Rob Carson – Dir of Operations
Phone: (248) 823-4067
Email: RCarson@troy.k12.mi.us

Contact: Michelle Kern – Bond Rep
Phone: (248) 921-3929
Email: MKerns@troy.k12.mi.us

ROOFING CONSULTANT:

WeatherTech Consulting Group, Inc.
7747 Auburn Road
Utica, MI 48317

Contact: Geof Garabedian - Principal
Phone: (586) 731-3095 x12
Fax: (586) 731-6863
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Contact: Ann Crippen – Project Administrator
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Email: acrippen@wtcg.net

**INVITATION TO BID
BID NO. 9815
2015 ROOF RESTORATION PROJECT
DISTRICTWIDE
TROY SCHOOL DISTRICT**

The Troy Board of Education will receive firm, sealed bids for all labor, materials, equipment and all other services to complete a 2015 Roof Restoration Project Districtwide for Troy School District.

Bid documents are available through WeatherTech Consulting Group, Inc., online by accessing their website at www.wtcg.net and selecting online programs. Username: troyproject@tsd.com and Password: TSD2015. If you have WTCG website questions, please contact Ann Crippen at acrippen@wtcg.net.

Your proposal, and two copies, marked "**BID 9815 - 2015 Roof Restoration Project - Districtwide**" must be delivered no later than 2:00 P.M., Wednesday, November 18, 2015, Purchasing Department, Troy School District, 4400 Livernois Road, Troy, Michigan 48098, at which time all bids will be publicly opened and read aloud immediately thereafter. Bid proposals received after this time will not be considered or accepted.

*A **mandatory pre-bid meeting has been scheduled for 9:00 A.M., Tuesday, November 10, 2015 at Troy School District Operations Department and Warehouse, 1140 Rankin, Troy, Michigan 48083.***

All bidders must provide familial disclosure in compliance with MCL 380.1267 and attach this information to the bid proposal. The bid proposal will be accompanied by a sworn and notarized statement disclosing any familial relationship that exists between the owner or any employee of the bidder and any member of the Troy School Board or the Troy School Districts Superintendent. Also, a completed certification form as attached, for compliance to the 'Iran Economic Sanctions Act' is required with the bid proposal. The District will not accept a bid proposal that does not include this sworn and notarized disclosure statement.

The Troy Board of Education reserves the right to accept or reject any or all bids, either in whole or in part; to award contract to other than the low bidder; to waive any irregularities and/or informalities; and in general to make awards in any manner deemed to be in the best interest of the owner.

Purchasing Department
Troy School District
Troy, MI 48083

**SECTION 00 21 13
INSTRUCTIONS TO BIDDERS**

1.01 THE WORK

- A. Work includes restoration work as specified in the summary of work.

1.02 SECURING DOCUMENTS

- A. All qualified bidders have been provided access to the WeatherTech website for the Troy School District. All Bid Documents are available on the website.

1.03 BIDDING PROCEDURES

- A. Submit all questions about the Drawings and Project Manual to the Regional Division Roofing Consultant in writing. Replies will be issued to all prime Bidders of record as Addenda to the Drawings and Project Manual and will become part of the Contract. The Consultant and Owner will not be responsible for oral clarification. Questions received less than 72 hours before the bid opening cannot be answered.
- B. To obtain approval to use unspecified products, Bidders shall submit a completed CSI Substitution Request form at least three (3) days before the bid date and hour. Requests received after this time will not be considered. Requests shall clearly describe the product for which approval is asked including all data necessary to demonstrate acceptability. If the product is acceptable, the Consultant will approve it in an Addendum issued to all prime Bidders of record.
- C. To receive consideration, submit bids in strict accordance with the following:
1. Bids shall be submitted electronically online using WeatherTech website procedures for submitting base bids.
 2. Alternate bids shall be submitted electronically online using WeatherTech Website procedures for submitting Alternates.
 3. Unit Price bids shall be submitted electronically online using WeatherTech website procedures for submitting Unit Pricing.
- D. All bids must be submitted on the online Bid Forms in accordance with the Owner's requirements.
- E. A bid is invalid if it has not been submitted electronically at the designated location prior to the time and date for receipt of bids indicated in the Invitation to Bid or prior to any extension thereof issued to Bidders.

- F. Unless otherwise provided in any supplement to these Instructions to Bidders, no Bidder shall modify, withdraw, or cancel his bid or any part thereof for ninety (90) days after the time designated for receipt of bids.
- G. Prior to receipt of bids, Addenda and/or Plan Sheet Revisions will be emailed, mailed or delivered to each person or firm recorded by the Owner or Consultant as having received the Bidding Documents and will be available for inspection wherever the Bidding Documents are kept available for that purpose.

1.04 DEFINITIONS

- A. Bidding Documents include the Instruction to Bidders, the Bid Form, and the proposed Contract Documents including any addenda issued prior to receipt of the bids.
- B. Addenda as written or graphic instruments issued prior to the execution of the Contract which may modify or interpret the Bidding Documents, including Specifications, by additions, deletions, clarification or corrections will become part of the Contract Documents when the Construction Contract is executed.
- C. The term "Contractor" in these documents refers to the organization that has a direct contract with the Owner to perform the work under the contract. "Contractor" shall employ and have direct contact with all Subcontractors.
- D. The term "Sub-Contractor" in these documents refers to the organization or organizations that are employed by the "Contractor" to perform specialty tasks. The "Contractor" shall be responsible for any work, actions, and fabrication of the "Sub-Contractor". "Sub-Contractors" must be approved by the Roofing Consultant.
- E. The term "Roofing Consultant" used throughout these documents refers to WeatherTech Consulting Group, Inc. and/or their duly authorized representatives. It is expressly understood that Consultant does not practice architecture and/or structural engineering.
- F. The term "Owner" used in the Contract Documents shall mean "Troy School District"
- G. The term "Specification and Bidding Documents" used in the Contract Documents is the volume, which includes the Bidding and Contract Requirements and the Specification for the roofing systems only. It expressly excludes architectural, structural engineering, and/or the abatement of any controlled substance.

- H. The term "Product" when herein (after) referred to includes materials, systems, and equipment.
- I. The term "Furnish" means purchase and/or fabricate and deliver to the work area at the site or other location when so directed.
- J. The term "Install" means build in, mount in position, connect or apply specified objects, and, where applicable, adjust and start in operation.
- K. The term "Provide" means furnished and install, complete in place and ready for operation and use.
- L. The terms "as indicated" or "as designated" or "as shown" mean specifically included and shown on Drawings.
- M. The terms "as required" or "as necessary" mean not specifically indicated as to location and/or extent, but to be determined in field during course of work.
- N. The term "Managing Consultant" refers to WeatherTech Consulting Group, Inc. who Troy School District has contracted to oversee the Troy School District Roofing at selected property locations.

1.05 BIDDERS REPRESENTATION

- A. Each Bidder, by making his bid, represents that he has read and understands the bidding Documents.
- B. Each Bidder, by making his bid, represents that he has visited the site and familiarized himself with the local conditions under which the work is to be performed in coordination with the Owner or the use of existing facilities.
- C. Bidder represents and agrees to demonstrate to the satisfaction of the Owner that he has harmonious labor relations.

1.06 EXAMINATION OF BIDDING DOCUMENTS AND SITE INSPECTION

- A. Any questions raised during the bidding period relative to any apparent discrepancies or omissions in the Roofing Contract Documents, interpretations of any provisions therein or their intent, must be directed only to Mr. Geof Garabedian, WeatherTech Consulting Group, Inc. at (586) 731-3095.
- B. Any and all such answers and interpretations and other supplemental instructions will be issued to all Bidders in the form of written or electronic addenda, letter, or change sheet drawings, as the circumstances may require. No one is authorized to amend Contract Document in any respect

by an oral statement or make any representation or interpretation in conflict with their provisions.

- C. In order that there may be adequate time for the Owner or Consultant to properly issue answers and Bidders benefit therefrom, questions must be raised no later than three (3) working days before the bids are due.
- D. All Addenda, Plan Revisions, meeting minutes, letters, and change sheet sketches issued during the bidding period shall become part of the Contract Documents and each Bidder shall take their provisions fully into account in the preparation of his proposal.
- E. No oral changes to the Contract documents will be made during the Bidding period and no interpretation obtained in any other manner than as hereinbefore described will subsequently be recognized.
- F. Attention is specifically called to the part of the bid in the Bid Form where the Bidder shall acknowledge receipt of all Addenda issued and the incorporation in his Bid Form or the effects thereof.
- G. To gain entrance to the site, the Bidder should telephone the Regional Consultant stating the name of the individual who desires entrance and his time of arrival. Arrangements will then be made to admit that individual only at the time specified.
- H. Contractor may offer substitute systems wherein a breakdown of cost and description of systems are included and submitted on a CSI Substitution Request form.

1.07 QUALIFICATIONS OF BIDDERS

- A. Only bidder who have qualified electronically online in response to the Troy School District RFI and have been accepted by Troy School District are allowed to bid the project.

1.08 SUBMISSION OF POST-BID INFORMATION

- A. Upon request of the Owner or Consultant, the selected Bidder shall, within five (5) days thereafter, submit the following:
 - 1) A statement of costs for each major item of work included in the bid.
 - 2) A designation of the work to be performed by the Bidder with his own forces.
 - 3) A list of names of the Subcontractors or other persons or organizations (including those who are to furnish materials or equipment fabricated to a special design) proposed for such portions of the Work as may be designated in the Bidding

Documents. The Bidder will be required to establish to the satisfactions of the Owner or Consultant the reliability and responsibility of the proposed Subcontractors to furnish and perform the Work described in the Sections of the Project Manual pertaining to such proposed Subcontractor's respective trades.

- 4) Prior to the award of the Contract, the Owner will notify the Bidder in writing if either the Owner or Consultant, after due investigation, has reasonable and substantial objection to any person or organization on such list. If Owner has a reasonable or substantial objection to any persons or organizations on such list and refuses in writing to accept such person or organization, the Bidder may, at his option, withdraw his bid.
- 5) If the Bidder submits an acceptable substitute with an increase in his bid price to cover the difference in cost occasioned by such substitution, Owner may, at his discretion, accept the increased bid price or he may disqualify the Bidder. Subcontractors and other persons and organizations proposed by the Bidder and accepted by the Owner or Consultant must be used on the work for which they were proposed and accepted and shall not be changed except with the written approval of the Owner or Consultant.

1.09 PERMITS, LICENSES AND NOTIFICATIONS

Prior to work commencement, Contractor shall submit to Owner or Consultant all permits, licenses, and notifications required to perform the work.

1.10 TIME AND MANNER

- A. The construction working days submitted by the Contractor and mutually agreed upon by the Owner or Consultant will be stated in the Contract Documents and will be the essence of the Contract and the Bidder's proposal must be based upon meeting his stated completion therein stated without any additional compensation from the Owner.
- B. The Bidder's attention is especially drawn to the Invitation to Bid. The Owner requires that all work be completed in the stipulated time frame so that they may make full use after the completion time therein specified in the Contract.
- C. It is required to complete all base contract work within the stipulated time frame. Additional work items will be adjusted to the contract working days. Payment of work shall be in accordance with work completed to date.
- D. Time for substantial completion will be as specified in the Contract.
- E. Owner or Consultant will be sole judge as to whether work under Contract has been substantially completed.

- F. Successful Bidder shall be required to submit a final written schedule of work and comply with schedule.

1.11 INSPECTION OF THE BUILDING

- A. At the time of opening of bids, each Bidder will be presumed to be familiar with requirements described in the Bid Form. Bidders must request assistance from Building Manager to assist in inspection of the site and obtain access to setbacks.
- B. Approximately one (1) week prior to the scheduled bid opening, a Pre-Bid Conference will be held for the purpose of considering questions posed by bidders. The conference will be open to Roofing Contractors and Subcontract Bidders. The location and time of conference are announced in the Invitation to Bid.

END OF SECTION 00 21 13\INSTRUCTIONS TO BIDDERS

SECTION 00 02 00

SUMMARY OF WORK

PART 1 - GENERAL

1.01 INTRODUCTION

- A. This section summarizes the scope of roofing work to be performed for the Troy School District schools and facilities identified as Bid No. 9815 Troy School District 2015 Roof Restoration Project Districtwide.
- B. Information in this section is provided as a general overview of the project scope, and as such, does not grant authority for deviation from the specifications for product, executions, or quality assurance contained in other related sections. The Roofing Contractor shall remain solely responsible for comprehensive review of the entire contract documents to include the contract drawings in preparation of his bid.

1.02 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Roofing Contractor shall be considered the prime contractor and include in his bas bid, all cost relating to:
 - 1. Troy School District (TSD) Roof Restoration Project work for sixteen (16) school and facilities covering approximately 1,150,000 sq. ft. Restoration consists of work required to remediate all defects identified in the restoration schedules and drawings inclusive of all Bid Documents requirements.

PROJECT LIST AND LOCATION

Athens High School	4333 John R Rd, Troy, MI 48085
Schroeder Elementary School	3541 Jack Dr., Troy, MI 48084
Barnard Elementary School	3601 Forge Dr., Troy, MI 48083
Hamilton Elementary School	5625 Northfield Pkwy, Troy, MI 48098
Martell Elementary School	5666 Livernois Rd, Troy, MI 48098
Troy Union Elementary School	1340 E Square Lake Rd, Troy, MI 48085
Boulan Park Middle School	3570 Northfield Pkwy, Troy, MI 48084
Larson Middle School	2222 E Long Lake Rd, Troy, MI 48085
Niles Community High School	201 West Square Lake Rd, Troy, MI 48098
Baker Middle School	1359 Torpey Dr., Troy, MI 48083
Facilities, Operations Personnel Bldg.	1140 Rankin Dr., Troy, MI
Leonard Elementary School	4401 Tallman Dr., Troy, MI 48085
Morse Elementary School	475 Cherry Dr., Troy, MI 48083

Service Bldg.	4420 Livernois Rd, Troy, MI 48098
Smith Middle School	5835 Donaldson Dr., Troy, MI 48085
Transportation Bldg	120 Hart Dr., Troy MI 48098

2. Work also includes leak response repairs and maintenance on all 24 TSD facilities (approx. 1,800,000 sq. ft.) in conjunction with the TSD Roof Assessment Management Program scheduled from 2015 - 2019.
3. Contractor will have 60 work days to substantially complete the project starting in 2015 and substantial completion from the date of the Notice to Proceed.

1.03 GENERAL PROJECT REQUIREMENTS

- A. The following paragraphs are generally applicable requirements for performance of Work on this project.
1. Construction details for the Work of these specifications are as noted on the contract drawings and as contained in other related sections and photographs. Installation shall conform to contract details. The specifications and details designed specifically for this project may supersede manufacturer's printed literature. Contract drawings shall be used mutually with requirements set forth in contract specifications and photographs. In the event, where provisions of codes, safety orders, contract documents, referenced manufacturers specifications or industry standards are in conflict, the more restrictive and higher quality shall govern. In instances where specific conditions exist that vary from the contract construction details or the manufacturer's details, the Contractor shall submit a Manufacturer approved shop drawing for consideration by the Owner. Installation shall not begin until approval by the Owner has been given in writing.
 2. Unless otherwise shown or noted on the Contract Drawings, existing, functional and salvageable, sheet metal counterflashings or coping metals shall be carefully handled to allow reuse after the specified roofing work is complete. Damage done to otherwise salvageable metal flashings shall be repaired via replacement with new metal to match existing in the damaged area of section at no additional cost to owner.
 3. As stated elsewhere in the contract documents, all safety, health, and environmental regulation of either local or national legislative bodies, as well as those of the product manufacturers, shall be complied with by the successful bidder for the project work. The cost of compliance with such regulations shall be included in the bidder's base bid without exception for compliance waiver or change order.
 4. The Contractor shall exercise all due precaution to prevent disruption to the occupancy of the facility interior or grounds. Every effort must be employed to prevent causing additional damage to the existing roofing assembly while working in an adjacent area, point overloading of the roof deck, damage to roof areas not in this contract. In the event that new leaks or other such disruptive or damaging conditions are brought on as a result of the contractor's negligence, poor judgement, or failure to comply with the contract specification requirements, the Contractor shall repair such damage to the satisfaction of the Owner at no additional charge to the Owner.
 5. During periods of precipitation, the Contractor shall be responsible for performing, at least daily, interior-building inspections for leaks in the area of his work. Contractor's representative shall report to the Owner's facility manager to inquire about known

building roof leaks. Should there be any such leaks, the contractor shall repair them immediately to prevent interior building damage. All leak-related damage to the building under areas the contractor has worked on, or is working on, shall be repaired to the satisfaction of the Owner at no cost to the Owner.

6. The Contractor shall maintain a complete set of Contract Specifications, Contract Drawing, and other items identified in the contract documents on the rooftop during the course of work on this facility. Failure of proper installation by the contractor, due to unavailability of Contract Specifications or Drawings on the roof, constitutes negligence.
7. Protection of all operations, merchandise, inventory, equipment and personnel shall be provided by the contractor.

1.03 CONTRACTOR USE OF SITE AND PREMISES

- A. Reference Section 01 14 19 Use of Site
- B. Reference Instructions to Bidders
- C. Reference Supplemental Conditions.

1.04 FUTURE WORK

- A. None scheduled at this time.

1.05 WORK HOURS AND SEQUENCE

- A. As agreed to between Owner and Contractor.

1.06 OWNER OCCUPANCY

- A. The owner will occupy the site during the entire period of work for the conduct of normal operations.
 1. Reference General Conditions
 2. Cooperate with Owner to minimize conflict, and to facilitate Owner's operations.
 3. Schedule the Work to accommodate owner occupancy.
 4. Coordinate with Owner for any additional insurance and/or bond requirements regarding Owner Occupancy.

PART 2 – PRODUCTS: NOT USED

PART 3 – EXECUTION: NOT USED

END OF SECTION 00 0200/SUMMARY OF WORK

Section 00 03 00
Bid Form

TO: Troy School District
4400 Livernois
Troy, MI 48098

PROJECT: Bid No. 9815 Troy School District
2015 Roof Restoration Project Districtwide

ATTN: Todd Hensley
Purchasing Supervisor

PROFESSIONAL: WeatherTech Consulting
Group, Inc.

Name of Bidding Co.:

Contact Name:

Email Address:

Business Address:

Phone No.

Base Bid: The undersigned proposes to furnish all labor and materials and provide all equipment and manpower necessary to perform all work for the various parts of the construction in accordance with the above referenced documents for the considerations of the following amount(s):

All bids to include state and local taxes; licensing and permitting fees.

1. Bid Athens High School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

2. Bid Schroeder Elementary School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

3. Bid Barnard Elementary School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

4. Bid Hamilton Elementary School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

5. Bid Martell Elementary School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

6. Bid Troy Union Elementary School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

7. Bid Boulan Park Middle School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

8. Bid Larson Middle School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

9. Bid Niles Community High School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

10. Bid Baker Middle School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

11. Bid Facilities, Operations Personnel Bldg. Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

12. Bid Leonard Elementary School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

13. Bid Morse Elementary School Restoration:

_____ Dollars \$ _____
(use words) (figures)

14. Bid Service Bldg. Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

15. Bid Smith Middle School Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

16. Bid Transportation Bldg. Roof Restoration:

_____ Dollars \$ _____
(use words) (figures)

17. Bid Allowance No. 1: 5,000 sq. ft. of patching per BUR 1:

_____ Dollars \$ _____
(use words) (figures)

18. Bid Allowance No. 2: 1,000 lf of patch:

_____ Dollars \$ _____
(use words) (figures)

19. Bid Allowance No. 3: 20 drain (15 in. dia.):

_____ Dollars \$ _____
(use words) (figures)

20. Bid Allowance No. 4: 50 cast iron drain strainers (15 in dia.):

_____ Dollars \$ _____
(use words) (figures)

21. Bid Allowance No. 5: 2,000 sq ft. Loose or Displaced Wall and Base Flashings:

_____ Dollars \$ _____
(use words) (figures)

22. Bid Allowance No. 6: 1,000 lf of Metal Edge Flashing Drip Edge or Gravel Stop:

_____ Dollars \$ _____
(use words) (figures)

23. Bid Allowance No. 7: 500 It. Penetrations Loose or Unbonded Membrane Flashing:

_____ Dollars \$ _____
(use words) (figures)

24. Bid Allowance No. 8: 5,000 sq. ft. of Roof Replacement:

_____ Dollars \$ _____
(use words) (figures)

All bid proposals enumerated in this Bid Proposal Form include overhead, profit and all other expenses involved in the execution and completion of the work described in the Contract Documents.

Bid prices in this Bid DO include applicable sales tax.

If awarded a contract, I propose to contract with the following subcontractors for listed work and further agree that subcontractors may not be changed without owners' written consent. See attachment 00 43 36 List of Subcontractors. Subcontractors required to attend Post Award Conference.

Named subcontractors must have a reputation of competency in their fields of work. I assume responsibility for quality of work performed by my subcontractors.

Note: All other subcontractors shall be submitted within 21 days of bid date, if requested.

TIME OF COMPLETION:

The undersigned agrees, if awarded the contract, work shall be substantially completed within _____ working days of the Owner's written Notice to Proceed. The Undersigned further agrees that the owner that work will progress on a continuous basis Monday thru Friday during the during of the contract unless delayed due to weather. Definition of weather delays will be agreed to between Troy School District and Contractor prior to start of work.

The Contractor shall have seven business days to deliver a Payment and Performance Bond in the format detailed.

Receipt of Pre-Bid and Addenda (List by number and date appearing on Addenda):

Pre-Bid Minutes Date: _____

Addendum # _____ Date: _____

Addendum # _____ Date: _____

Addendum # _____ Date: _____

EXECUTION OF BID:

NAME OF BIDDING COMPANY: _____

TYPE OF CORPORATE ENTITY: _____

EXECUTED BY: _____

SIGNATURE: _____

DATE: _____

**SECTION 00 03 01
UNIT PRICES**

Date: _____

To: Troy School District
4400 Livernois
Troy, MI 48098

Att: Todd Hensley
Purchasing Supervisor

Project: Bid No. 9815
Troy School District
4400 Livernois
Troy, MI 48098

2015 Roof Restoration Project Districtwide

In the event changes are made in the plans and specifications, we agree the total contract price will be adjusted on the basis of the unit prices (including overhead and profit) for those items listed below.

A Unit Price is an amount proposed by Bidders and stated on the Bid Form as a price per unit of measurement for materials or services that will be added to or deducted from the Contract Sum by Change Order in the event the estimated quantities of Work required by the Contract documents are increased or decreased.

Unit prices include necessary materials, overhead, profit, and applicable taxes.

The Owner or Consultant reserve the right to reject the Contractor's measurement of work-in place that involves use of established unit prices, and to have this work measured by an independent surveyor acceptable to the Contractor at the Owner's expense.

In order for our bid to be acceptable, unit prices are given for each item shown:

1. Labor Rate:
Unit cost per hour including labor, overhead, profit, insurance and transportation to address latent conditions.
Add \$ _____ per hour

2. Patch:
Unit price per sq. ft. install patch per BUR 1 procedure.

- Add \$ _____ per sq. ft.
3. Patch:
Unit price per lf to prep area, prime, 3 course cement and fabric (6 in.), allow cure per industry standards 30 days and coat with non fibrated aluminum coating.
Add \$ _____ per lf
 4. Replacement Roof Drain:
Unit price per cast iron drain bowl (15 in. dia.) including clamping ring, aluminum strainer and all necessary piping and hook ups to match existing.
Add \$ _____ per drain
 5. Replacement Roof Drain Clamping Ring:
Unit price per universal clamping ring (15 in. dia. drain) and accessories.
Add \$ _____ per clamping ring
 6. Replacement Roof Drain Strainer:
Unit price per cast aluminum strainer (15 in. dia. drain).
Add \$ _____ per strainer
 7. Sealants:
Unit cost per linear foot to remove deteriorated sealants and install new one part urethane sealant.
Add \$ _____ per lf
 8. Roof Replacement:
Unit price per sq. ft. to remove existing roofing install insulation fill up to 6 in. and install patch per BUR 1 procedure over area.
Add \$ _____ per sq. ft
 9. Bare and Deteriorated Spots on Aggregate Surfaced Roofs: Unit price per sq. ft. to repair per BUR 15.
Add \$ _____ per sq. ft.
 10. Loose or Displaced Wall and Base Flashings: Unit price per sq. ft. to repair per BUR 17.
Add \$ _____ per sq. ft
 11. Metal Edge Flashing Drip Edge or Gravel Stop:
Unit price per lf to repair per BUR 24.
Add \$ _____ per lf

- 12. Penetrations Loose or Unbonded Membrane Flashing:
Unit price per lf to repair per BUR 24.
Add \$ _____ per lf

- 13. Interior Drains: Unit price to replace nominal 3 ft. x 3 ft. drain sump flashing and gravel stop per BUR 27.
Add \$ _____ per draindrain flashing

- 14. Interior Protection: Unit cost per sq. ft to install a minimum 6 mil reinforced polyethylene sheet over interior contents (outside deck repair areas or areas of interior protection).
Add \$ _____ per sq. ft.

- 15. Metal Cap Flashing/Coping:
Unit cost per lf to repair coping per BUR 22.
Add \$ _____ per lf.

Company

Contractor Signature

Contractor Name Print

Date

LEAK RESPONSE SCOPE & BID FORM

Scope of Project

To provide **Roofing Repair Services on an “as-needed” basis** as specified in this bid document.

Specifications/Conditions

- A. Troy School District (TSD) is establishing a contract with a roofing contractor for “as-needed” repairs for roofs in its inventory. These repairs may be in response to emergency roof leak requests or pre-determined roof repair requests. The selected roofing contractor will be expected to provide these repairs based on the prices quoted in this bid. The initial service period covered shall run from 2015 to 2016. If the District is satisfied with work performed by the selected contractor, the contract may get extended an additional year, based on the 2015/16 rates provided on the Bid Proposal Form.
- B. The Troy School District roof inventory consists primarily of built-up and EPDM roofing systems. Roof systems that are currently under a warranty, guarantee, or other agreement will not be included in this repair program, unless the repairs can be performed under the terms and conditions of the warranty, guarantee, or other agreement.
- C. Roofing contractor will receive a TSD work order from TSD for all repairs. The work order may include a map showing the approximate location of the leak or the defect to be repaired. If a TSD work order is made before noon on any day, it is expected that the roofing contractor will arrive at the project site that same day. For TSD work order requests made after noon on any day, it is expected that the roofing contractor will arrive at the project site no later than 10:00 a.m. the day after receipt of the TSD work order.
- D. Roofing contractor to provide two-person repair crew, at least one of the crew members must be a registered journeyman roofer, with minimum 5 years roofing experience in all roofing types built-up and single ply.
- E. At the project site, roofing contractor shall:
 - 1. Sign-in with the facility contact.
 - 2. Perform the repair(s) (if responding to work order for pre-determined repair). Photograph the defect/repair area before and after repair.
 - 3. Investigate the cause/source of the leak(s) (if responding to work order for “leak” repair) and perform necessary repairs to stop the leak. Photograph the defect/repair area before and after repair.
 - a. Contact the TSD Maintenance and Operations contact for direction if the leak cause/source is not found within 2 hours.

4. Perform all repairs in a timely manner, using materials that are fully-compatible with the roofing component requiring repair. Remove all scrap, litter, and debris resulting from repair activities.
 5. Maintain a complete record of the site visit: time at the site; complete description of activities performed, including extent of repair(s), materials used for the repair(s); and before and after photographs of the repair(s); and signature of roofing contractor's representative confirming that the indicated work was satisfactorily complete under the terms of the Contract.
 6. Upon leaving the site, sign-out with the facility contact.
- F. Ensure that submitted invoices include all supporting documentation required in Item E.5, including roofing contractor representative confirming signature(s). Failure to include all documentation WILL result in withholding payment. Send invoices, with all supporting documentation, via e-mail to TSD Maintenance and Operations contacts below:
- G. TSD Maintenance and Operations contacts are:
1. Rob Carson
Dir of Operations
Phone:248-823-4067
Email:RCarson@troy.k12.mi.us
 2. To be determined

BID PROPOSAL FORM

The undersigned certifies that the bid contained meets or exceeds the attached specifications

To provide roofing repair services on an “as-needed” basis.

PLEASE PROVIDE YOUR HOURLY RATES FOR REPAIRS:

No.1 Two person crew, Monday through Friday (excluding national holidays). Price includes labor, materials, equipment, supervision, travel time, and other incidentals to perform repairs:

- 1 hour to less than 4 hours on-site \$ _____ (per hour)
- 4 hours to less than 8 hours on-site \$ _____ (per hour)
- 8 hours or more on-site \$ _____ (per hour)

No.2 Two person crew, Saturday or Sunday (excluding national holidays). Price includes labor, materials, equipment, supervision, travel time, and other incidentals to perform repairs:

- 1 hour to less than 4 hours on-site \$ _____ (per hour)
- 4 hours to less than 8 hours on-site \$ _____ (per hour)
- 8 hours or more on-site \$ _____ (per hour)

No.3 Two person crew, on national holidays. Price includes labor, materials, equipment, supervision, travel time, and other incidentals to perform repairs:

- 1 hour to less than 4 hours on-site \$ _____ (per hour)
- 4 hours to less than 8 hours on-site \$ _____ (per hour)
- 8 hours or more on-site \$ _____ (per hour)

No. 4 Price to extend contract for a second year (2017 - 2018): Add _____ percent per hour

SWORN AND NOTARIZED FAMILIAL DISCLOSURE STATEMENT

FAMILIAL DISCLOSURE AFFIDAVIT

The undersigned, the owner or authorized office of the below-named contractor (the 'Contractor'), pursuant to the familial disclosure requirement provided in this proposals, hereby represents and warrants that, excepts as provided below, no familial relationship exists between the owner or key employee of the Contractor, and any member of the Troy School Board or the Troy School Superintendent. A list of the School District's Board of Education Members and its Superintendent may found at <http://www.troy.k12.mi.us>.

List any Familial Relationships:

Contractor:

Print Name of Contractor

By: _____

Its: _____

Subscribed and sworn before me, this _____
day of _____, 20 ____, a Notary Public
in and for _____ County, _____

Seal:

(Signature)
NOTARY PUBLIC

My Commission expires _____

CERTIFICATION OF COMPLIANCE – IRAN ECONOMIC SANCTIONS ACT

Michigan Public Act No. 517 of 2012

The undersigned, the owner, or authorized officer of the below-named Company, pursuant to the compliance certification requirement provided in this proposal, hereby certifies, represents, and warrants that the Company and its officers, directors and employees, is not an "Iran Linked Business" within the meaning of the Iran Economic Sanctions Act, Michigan Public Act No. 517 of 2012 (the "Act"), and that in the event the Company is awarded a contract by Troy School District as a result of the aforementioned proposal, the Company is not and will not become an "Iran Linked Business" at any time during the course of performing any services under the contract.

The Company further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or two (2) times the amount of the contract or proposed contract for which the false certification was made, whichever is greater, the cost of Troy School District's investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date the it is determined that the person has submitted the false certification.

Contractor:

Print Name of Contractor

By: _____

Its: _____

Subscribed and sworn before me, this _____
day of _____, 20 ____, a Notary Public
in and for _____ County, _____

Seal:

(Signature)
NOTARY PUBLIC

My Commission expires _____

PAYMENT BOND

Know all men by these presents: That

_____, the Contractor ("Principal") whose principal place of
business is located at

_____ and

_____ ("Surety")

are held and firmly bound unto

_____, the Owner

("Obligee") in the amount of

_____ dollars (\$_____)

for the payment whereof Principal and
Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and
severally, firmly by these presents.

Whereas, Principal has by written agreement dated

_____ entered into a contract with Obligee for

_____ which contract (the "Contract") is by reference
expressly made a part hereof.

Now therefore, the condition of this obligation is such that, if the Principal shall promptly make
payment to all claimants as hereinafter defined, for labor performed and material furnished in the
prosecution of the Work provided for in the Contract, then this obligation shall be void; otherwise it shall
remain in full force and effect; subject, however, to the following conditions.

The Principal and Surety, jointly and severally, hereby agree with Obligee as follows:

1. A claimant is defined as one having a direct contract with the Principal or with a subcontractor of
the Principal for labor, material, or both for use in the performance of the Contract. A
"subcontractor" of the Principal, for the purposes of this bond only, includes not only those
subcontractors having a direct contractual relationship with the Principal, but also any other
contractor who undertakes to participate in the Work which the Principal is to perform under the
aforesaid Contract, whether there are one or more intervening subcontractors contractually
positioned between it and the Principal (for example, a subcontractor). "Labor" and "material"
shall include, but not be limited to, public utility services and reasonable rentals of equipment, but
only for periods when the equipment rented is actually used at the work site.
2. Subject to the provisions of paragraph 3, any claimant who has performed labor or furnished
material in accordance with the Contract documents in the prosecution of the Work provided in
the Contract, who has not been paid in full therefore before the expiration of ninety (90) days after
the day on which such claimant performed the last of such labor or furnished the last of such
materials for which he claims payment, may bring action on this bond to recover any amount due

Attorney-in-fact

Date

Name: _____
(Type)

My Power of Attorney is recorded in Office of the Register of Deeds/the Clerk's Office of the Circuit Court
(select as appropriate for the local jurisdiction) of _____, state of

_____,

and has not been revoked.

Attorney-in-fact

Affidavit and acknowledgment of attorney-in-fact

State of _____

City and/or county of _____ to wit:

I, the undersigned notary public, do certify that _____
personally appeared before me in the jurisdiction aforesaid and made oath that he/she is the attorney-in-
fact _____
of _____

_____, the Surety, that he is duly authorized to execute on its
behalf the foregoing Bond pursuant to the Power of Attorney noted above, and on behalf of said Surety,
acknowledged the aforesaid Bond(s) as its act and deed.

Given under my hand this _____ day of _____,
20_____ .

Notary Public: _____(Seal)

My Commission expires: _____

Approved:

Owner/designee

Date

PERFORMANCE BOND

Know all men by these presents:

That _____

_____, the Contractor ("Principal") whose principal place of business is located at

_____ and _____

("Surety") are held and firmly bound unto

_____, the Owner ("Obligee") in the amount of

_____ dollars

(\$ _____)

for the payment whereof Principal and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

Whereas,

Principal has by written agreement dated _____ entered into a contract with Obligee for

which contract (the "Contract") is by reference expressly made a part hereof.

Now therefore, the condition of this obligation is such that, if the Principal shall promptly and faithfully perform said Contract in strict conformity with the plans, specifications, and conditions of the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

Provided that any alterations which may be made in the terms of the Contract, or in the Work to be done under it,



or the giving by the Obligee of any extension of time for the Contract, or any other alterations, extensions, or forbearance on the part of either or both of the Obligee or the Principal to the other shall not in any way release the Principal and the Surety, or either of them, their heirs, executors, administrators, successors, or assigns from their liability hereunder, notice to the Surety of any such alterations, extension, or forbearance being hereby waived.

No action shall be brought on this bond unless brought within one year after: (a) completion of the Contract and all Work thereunder, including expiration of all warranties and guarantees, or (b) discovery of the defect or breach of warranty or guarantee if the action be for such.

The Surety represents to the Principal and to the Obligee that it is legally authorized to do business in the State in which the Work is being carried out.



Signed and sealed this _____ day of _____,
20_____.

(Seal)

Contractor/Principal

By: _____
Signature in ink *Date*

Title: _____

Witness

(Seal)

Surety

By: _____
Attorney-in-fact *Date*

Name
: _____
(Type)

My Power of Attorney is recorded in Office of the Register of Deeds/the Clerk's Office of the Circuit Court
(select as appropriate for the local jurisdiction) of _____, state of
_____, and has not been revoked.

Attorney-in-fact

Affidavit and acknowledgment of attorney-in-fact

State of _____

City and/or county of _____ to wit:

I, the undersigned notary public, do certify that _____
personally appeared before me in the jurisdiction aforesaid and made oath that he/she is the attorney-in-
fact _____ of _____
_____, the Surety, that he is duly authorized to execute on its
behalf the foregoing Bond pursuant to the Power of Attorney Noted above, and on behalf of said Surety,
acknowledged the aforesaid Bond(s) as its act and deed.

Given under my hand this _____ day of _____,
20_____.

Notary public: _____ (Seal)

My Commission expires: _____

Approved:

Owner/designee

Date

PARTIAL RELEASE OF LIEN AFFIDAVIT

The state of _____)

County of _____)

Before me, the undersigned authority, on this day personally appeared _____,
known to me to be a credible person and officer of _____
("Contractor") and who, being duly sworn, upon his oath declares and acknowledges as follows:

1. I am the duly authorized agent for Contractor, which has authorized me to make this affidavit, to enter into the agreements and to grant the lien waivers herein set forth, on its behalf and as its acts and deeds, and all the recitations herein are true and correct.
2. Pursuant to an agreement dated _____, 20__ between Contractor and _____ ("Owner"), Contractor has supplied materials and performed labor in connection with construction of improvements upon certain real property in _____ County, _____, described as _____ described as _____ construction of _____.
3. Contractor has received total payments to date in the amount of _____ dollars (\$_____) for all materials supplied and labor performed by Contractor in connection with the construction of the improvements during the period through _____, 20__ [*Insert date of end of prior progress payment period.*]
4. In consideration of and conditioned upon receipt from Owner of _____ dollars (\$_____) [*insert amount requested in present application for payment*], Contractor hereby waives and releases any and all liens, rights, and interests (whether choate or inchoate and including, without limitation, all mechanic's and materialman's liens under the constitution and statutes of the state/commonwealth of _____ owned, claimed, or held by Contractor in and to the land and improvements, whether or not affixed or severable from the land or from any other portion of the improvements.
5. Contractor warrants that all costs incurred and bills owed by Contractor to others for materials supplied or labor performed in connection with the improvements through _____, 20__ [*insert date of end of prior progress payment period*] have been fully paid and satisfied.

Executed this _____ day of _____ 20__ .

Contractor

By: _____
(Signature)

Title: _____

Subscribed and sworn to before me, the said _____ this _____ day of

_____, 20_____, to certify which witness my hand and seal of office

(Signature)

(Seal)

Notary public in and for _____ County, _____.

My commission expires on the _____ day of _____, 20__ .

FINAL RELEASE OF LIEN AFFIDAVIT

The state of _____)

County of _____)

Before me, the undersigned authority, on this day personally appeared _____,
known to me to be a credible person and officer of _____
("Contractor") and who, being duly sworn, upon his oath declares and acknowledges as follows:

1. I am the duly authorized agent for Contractor, which has authorized me to make this affidavit, to enter into the agreements, and to grant the lien waivers herein set forth, on its behalf and as its acts and deeds, and all the recitations herein are true and correct.
2. Pursuant to an agreement dated _____, 20__ between Contractor and _____ ("Owner"), Contractor has supplied materials and performed labor in connection with the construction of improvements upon certain real property in _____ County, _____, described as _____. Said improvements are more particularly described as construction of _____.
3. Contractor hereby certifies it has received _____ dollars (\$ _____), which constitutes payment in full for any and all materials supplied and labor performed by Contractor on the above-described Improvements. Contractor does hereby waive and release any and all liens, claims, rights, and interests (whether choate or inchoate and including, without limitation, all mechanic's and supplier's liens under the constitution and statutes of the state/commonwealth of _____) owned, claimed, or held by Contractor in and to the land and improvements or any part thereby for reason of materials supplied or labor performed on said project.
4. Contractor warrants that all costs incurred and bills owed by Contractor to others for materials supplied or labor performed in connection with the Improvements have been fully paid and satisfied, except for those bills set forth on Attachment A. Contractor certifies that within seven (7) days hereafter, Contractor shall pay all sums due for those bills set forth on Attachment A. Contractor further warrants that should any claim or lien be filed for material supplied or labor performed in connection with the Improvements, Contractor will immediately furnish a Bond for the release of such liens, obtain settlement of any such liens, and furnish Owner a written, full release of such liens. Should Contractor be unable to obtain such release, Contractor agrees to fully indemnify and hold harmless Owner from any and all costs it may incur by reason of such liens.

Executed this _____ day of _____ 20 __ .

Contractor

By: _____
(Signature)

Title: _____

Subscribed and sworn to before me, the said _____ this
_____ day of

_____ 20__, to certify which witness my hand and seal of office.

(Signature)

(Seal)

Notary public in and for _____ County, _____.

My commission expires on the _____ day of _____, 20 __.



RICK. SNYDER
GOVERNOR

STATE OF MICHIGAN

Prevailing Wages
PO Box 30476
Lansing, MI 48909
517-284-7800



Informational Sheet: Prevailing Wages on State Projects

REQUIREMENTS OF THE PREVAILING WAGES ON STATE PROJECTS ACT, PUBLIC ACT 166 OF 1965

The State of Michigan determines prevailing rates pursuant to the Prevailing Wages on State Projects Act, Public Act 166 of 1965, as amended. The purpose of establishing prevailing rates is to provide minimum rates of pay that must be paid to workers on construction projects for which the state or a school district is the contracting agent and which is financed or financially supported by the state. By law, prevailing rates are compiled from the rates contained in collectively bargained agreements which cover the locations of the state projects. The official prevailing rate schedule provides an hourly rate which includes *wage and fringe benefit totals* for designated construction mechanic classifications. The overtime rates also include *wage and fringe benefit totals*. Please pay special attention to the overtime and premium pay requirements. Prevailing wage is satisfied when wages plus fringe benefits paid to a worker are equal to or greater than the required rate.

State of Michigan responsibilities under the law:

- The department establishes the prevailing rate for each classification of construction mechanic ***requested by a contracting agent*** prior to contracts being let out for bid on a state project.

Contracting agent responsibilities under the law:

- If a contract is not awarded or construction does not start within 90 days of the date of the issuance of rates, a re-determination of rates must be requested by the contracting agent.
- Rates for classifications needed but not provided on the Prevailing Rate Schedule, ***must*** be obtained ***prior*** to contracts being let out for bid on a state project.
- The contracting agent, by written notice to the contractor and the sureties of the contractor known to the contracting agent, may terminate the contractor's right to proceed with that part of the contract, for which less than the prevailing rates have been or will be paid, and may proceed to complete the contract by separate agreement with another contractor or otherwise, and the original contractor and his sureties shall be liable to the contracting agent for any excess costs occasioned thereby.

Contractor responsibilities under the law:

- Every contractor and subcontractor shall keep posted on the construction site, in a conspicuous place, a copy of all prevailing rates prescribed in a contract.
- Every contractor and subcontractor shall keep an accurate record showing the name and occupation of and the actual wages and benefits paid to each construction mechanic employed by him in connection including certified payroll, as used in the industry, with said contract. This record shall be available for reasonable inspection by the contracting agent or the department.
- Each contractor or subcontractor is separately liable for the payment of the prevailing rate to its employees.
- The prime contractor is responsible for advising all subcontractors of the requirement to pay the prevailing rate prior to commencement of work.
- The prime contractor is secondarily liable for payment of prevailing rates that are not paid by a subcontractor.
- A construction mechanic ***shall only*** be paid the apprentice rate if registered with the United States Department of Labor, Bureau of Apprenticeship and Training and the rate is included in the contract.

Enforcement:

A person who has information of an alleged prevailing wage violation on a state project may file a complaint with the State of Michigan. The department will investigate and attempt to resolve the complaint informally. During the course of an investigation, if the requested records and posting certification are not made available in compliance with Section 5 of Act 166, the investigation will be concluded and a referral to the Office of Attorney General for civil action will be made. The Office of Attorney General will pursue costs and fees associated with a lawsuit if filing is necessary to obtain records.



RICK. SNYDER
GOVERNOR

STATE OF MICHIGAN

Prevailing Wages
PO Box 30476
Lansing, MI 48909
517-284-7800



Informational Sheet: Prevailing Wages on State Projects

General Information Regarding Fringe Benefits

Certain fringe benefits **may** be credited toward the payment of the Prevailing Wage Rate:

- If a fringe benefit is paid directly to a construction mechanic
- If a fringe benefit contribution or payment is made on behalf of a construction mechanic
- If a fringe benefit, which may be provided to a construction mechanic, is pursuant to a written contract or policy
- If a fringe benefit is paid into a fund, for a construction mechanic

When a fringe benefit is not paid by an hourly rate, the hourly credit will be calculated based on the annual value of the fringe benefit divided by 2080 hours per year (52 weeks @ 40 hours per week).

The following is an example of the types of fringe benefits allowed and how an hourly credit is calculated:

Vacation	40 hours X \$14.00 per hour = \$560/2080 =	\$0.27
Dental insurance	\$31.07 monthly premium X 12 mos. = \$372.84 /2080 =	\$0.18
Vision insurance	\$5.38 monthly premium X 12 mos. = \$64.56/2080 =	\$0.03
Health insurance	\$230.00 monthly premium X 12 mos. = \$2,760.00/2080 =	\$1.33
Life insurance	\$27.04 monthly premium X 12 mos. = \$324.48/2080 =	\$0.16
Tuition	\$500.00 annual cost/2080 =	\$0.24
Bonus	4 quarterly bonus/year x \$250 = \$1000.00/2080 =	\$0.48
401k Employer Contribution	\$2000.00 total annual contribution/2080 =	\$0.96
Total Hourly Credit		\$3.65

Other examples of the types of fringe benefits allowed:

- ③ Sick pay
- ③ Holiday pay
- ③ Accidental Death & Dismemberment insurance premiums

The following are examples of items that **will not** be credited toward the payment of the Prevailing Wage Rate

- Legally required payments, such as:
 - ③ Unemployment Insurance payments
 - ③ Workers' Compensation Insurance payments
 - ③ FICA (Social Security contributions, Medicare contributions)
- Reimbursable expenses, such as:
 - ③ Clothing allowance or reimbursement
 - ③ Uniform allowance or reimbursement
 - ③ Gas allowance or reimbursement
 - ③ Travel time or payment
 - ③ Meals or lodging allowance or reimbursement
 - ③ Per diem allowance or payment
- Other payments to or on behalf of a construction mechanic that are not wages or fringe benefits, such as:
 - ③ Industry advancement funds
 - ③ Financial or material loans



State of Michigan
 DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS
 MICHIGAN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 MARTHA B. YODER
 DIRECTOR

OVERTIME PROVISIONS for MICHIGAN PREVAILING WAGE RATE COMMERCIAL SCHEDULE

1. Overtime is represented as a nine character code. Each character represents a certain period of time after the first 8 hours Monday thru Friday.

	Monday thru Friday	Saturday	Sunday & Holidays	Four 10s
First 8 Hours		4		
9th Hour	1	5	8	9
10th Hour	2	6		
Over 10 hours	3	7		

Overtime for Monday thru Friday after 8 hours:

the 1st character is for time worked in the 9th hour (8.1 - 9 hours)
 the 2nd character is for time worked in the 10th hour (9.1 - 10 hours)
 the 3rd character is for time worked beyond the 10th hour (10.1 and beyond)

Overtime on Saturday:

the 4th character is for time worked in the first 8 hours on Saturday (0 - 8 hours)
 the 5th character is for time worked in the 9th hour on Saturday (8.1 - 9 hours)
 the 6th character is for time worked in the 10th hour (9.1 - 10 hours)
 the 7th character is for time worked beyond the 10th hour (10.01 and beyond)

Overtime on Sundays & Holidays

The 8th character is for time worked on Sunday or on a holiday

Four Ten Hour Days

The 9th character indicates if an optional 4-day 10-hour per day workweek can be worked **between Monday and Friday without paying overtime after 8 hours worked, unless otherwise noted in the rate schedule. To utilize a 4 ten workweek, notice is required from the employer to employee prior to the start of work on the project.**

2. Overtime Indicators Used in the Overtime Provision:

H - means TIME AND ONE-HALF due
 X - means TIME AND ONE-HALF due after 40 HOURS worked
 D - means DOUBLE PAY due
 Y - means YES an optional 4-day 10-hour per day workweek can be worked without paying overtime after 8 hours worked
 N - means NO an optional 4-day 10-hour per day workweek *can not* be worked without paying overtime after 8 hours worked

3. EXAMPLES:

HHHHHHHDN - This example shows that the 1½ rate must be used for time worked after 8 hours Monday thru Friday (characters 1 - 3); for all hours worked on Saturday, 1½ rate is due (characters 4 - 7). Work done on Sundays or holidays must be paid double time (character 8). The N (character 9) indicates that 4 ten-hour days is not an acceptable workweek at regular pay.

XXXHHHHDY - This example shows that the 1½ rate must be used for time worked after 40 hours are worked Monday thru Friday (characters 1-3); for hours worked on Saturday, 1½ rate is due (characters 4 – 7). Work done on Sundays or holidays must be paid double time (character 8). The Y (character 9) indicates that 4 ten-hour days is an acceptable alternative workweek.

LARA is an equal opportunity employer.
 Auxiliary aids, services and other reasonable accommodations are available, upon request, to individuals with disabilities.

ENGINEERS - CLASSES OF EQUIPMENT LIST

UNDERGROUND ENGINEERS

CLASS I

Backfiller Tamper, Backhoe, Batch Plant Operator, Clam-Shell, Concrete Paver (2 drums or larger), Conveyor Loader (Euclid type), Crane (crawler, truck type or pile driving), Dozer, Dragline, Elevating Grader, End Loader, Gradall (and similar type machine), Grader, Power Shovel, Roller (asphalt), Scraper (self propelled or tractor drawn), Side Broom Tractor (type D-4 or larger), Slope Paver, Trencher (over 8' digging capacity), Well Drilling Rig, Mechanic, Slip Form Paver, Hydro Excavator.

CLASS II

Boom Truck (power swing type boom), Crusher, Hoist, Pump (1 or more 6" discharge or larger gas or diesel powered by generator of 300 amps or more, inclusive of generator), Side Boom Tractor (smaller than type D-4 or equivalent), Tractor (pneu-tired, other than backhoe or front end loader), Trencher (8' digging capacity and smaller), Vac Truck.

CLASS III

Air Compressors (600 cfm or larger), Air Compressors (2 or more less than 600 cfm), Boom Truck (non-swinging, non-powered type boom), Concrete Breaker (self-propelled or truck mounted, includes compressor), Concrete Paver (1 drum, ½ yard or larger), Elevator (other than passenger), Maintenance Man, Mechanic Helper, Pump (2 or more 4" up to 6" discharge, gas or diesel powered, excluding submersible pump), Pumpcrete Machine (and similar equipment), Wagon Drill Machine, Welding Machine or Generator (2 or more 300 amp or larger, gas or diesel powered).

CLASS IV

Boiler, Concrete Saw (40HP or over), Curing Machine (self-propelled), Farm Tractor (w/attachment), Finishing Machine (concrete), Firemen, Hydraulic Pipe Pushing Machine, Mulching Equipment, Oiler (2 or more up to 4", exclude submersible), Pumps (2 or more up to 4" discharge if used 3 hrs or more a day-gas or diesel powered, excluding submersible pumps), Roller (other than asphalt), Stump Remover, Vibrating Compaction Equipment (6' wide or over), Trencher (service) Sweeper (Wayne type and similar equipment), Water Wagon, Extend-a-Boom Forklift.

HAZARDOUS WASTE ABATEMENT ENGINEERS

CLASS I

Backhoe, Batch Plant Operator, Clamshell, Concrete Breaker when attached to hoe, Concrete Cleaning Decontamination Machine Operator, Concrete Pump, Concrete Paver, Crusher, Dozer, Elevating Grader, Endloader, Farm Tractor (90 h.p. and higher), Gradall, Grader, Heavy Equipment Robotics Operator, Hydro Excavator, Loader, Pug Mill, Pumpcrete Machines, Pump Trucks, Roller, Scraper (self-propelled or tractor drawn), Side Boom Tractor, Slip Form Paver, Slope Paver, Trencher, Ultra High Pressure Waterjet Cutting Tool System Operator, Vactors, Vacuum Blasting Machine Operator, Vertical Lifting Hoist, Vibrating Compaction Equipment (self-propelled), and Well Drilling Rig.

CLASS II

Air Compressor, Concrete Breaker when not attached to hoe, Elevator, End Dumps, Equipment Decontamination Operator, Farm Tractor (less than 90 h.p.), Forklift, Generator, Heater, Mulcher, Pigs (Portable Reagent Storage Tanks), Power Screens, Pumps (water), Stationary Compressed Air Plant, Sweeper, Water Wagon and Welding Machine.

UNIT PRICES

In the event changes are made in the plans and specifications the total contract price will be adjusted on the basis of the unit prices for those items as submitted at the WeatherTech Project Website.

A Unit Price is an amount proposed by Bidders and stated on the Bid Form as a price per unit of measurement for materials or services that will be added to or deducted from the Contract Sum by Change Order in the event the estimated quantities of Work required by the Contract documents are increased or decreased.

Unit prices include necessary shipping, materials, labor, permit or licensing fees, overhead, profit, and applicable taxes.

The Owner or Consultant reserve the right to reject the Contractor's measurement of work-in place that involves use of established unit prices, and to have this work measured by an independent surveyor acceptable to the Contractor at the Owner's expense.

Unit prices not listed on the bid form shall conform to the pricing for the region. Owner shall have the option to verify and negotiate any unit pricing requested during the performance of work that was not previously provided on the bid form.

END OF SECTION 00 43 22/ UNIT PRICES

SECTION 00 43 36

LIST OF SUBCONTRACTORS

PART 1 - GENERAL

1.01 SUMMARY

- A. A list of all intended subcontractors must be submitted and approved prior to the issuance of the contract, reference ***Instructions to Bidders***.
- B. Submittals: Contractor shall submit ***List of Subcontractors Form*** (see sample below) shall be submitted online at www.wtcg.net.

PART 2 - MATERIALS - NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION 00 43 36/ LIST OF SUBCONTRACTORS

LIST OF SUBCONTRACTORS

This form must be submitted online and received and approved before a contract can be issued.

To: Troy School District

Date: _____

Project: Troy School District Building/Facility #. _____

Street Address

City, State and Zip

Gentlemen:

The subcontractors we propose to use are as follows:

1. Plumbing _____
2. Electrical _____
3. Heating, Ventilating, Air Conditioning (HVAC) _____

4. Deck Repairs _____
5. Sheet Metal _____
6. Asbestos Removal _____
7. Existing Roof System Removal _____
8. Others: Description _____

Roofing Contractor

Date

SECTION 00 73 00
SUPPLEMENTAL CONDITIONS

PART 1 – GENERAL

1.01 FACILITY RULES GOVERNING CONTRACTOR EMPLOYEES

- A. Motor vehicles will be permitted at the designated areas to load or unload materials, equipment, tools, trash, etc. All motor vehicles while on Owner's and adjacent property shall be driven slowly with extreme caution obeying all posted traffic signs.
- B. Contractor has the responsibility to protect all his personal property, materials, equipment, etc. from theft.
- C. Contractors shall not leave materials, tools, etc. lying in an unsafe manner while working on the Owner's property. Do not store tools or materials that block an exit or path to exit.
- D. Do not in any way block, hinder, or obstruct fire escape and/or other emergency egress routes of the structures (interior and exterior). Comply with regulations and requirements of local fire prevention codes.
- E. Provide barricades and warning signs at all operations of the Work which are deemed hazardous by the Consultant to the movement of both Contractor's/Owner's personnel and pedestrians/passersby.
- F. Maintain good housekeeping. Do not allow accumulation of rubbish or scrap materials. Remove rubbish and scrap daily.
- G. No gambling, drugs or alcoholic beverages will be permitted on the site at any time. No individual under the influence of drugs or alcohol will be permitted on site.
- H. Contact Owner or Consultant prior to placing or using any rigging, hoists, cranes, temporary stairs, towers, etc.
- I. Provide the Owner with sufficient advance notice when planning to work outside of normal hours so that Owner's consultant, personnel, security forces, and other interested parties may be advised.
- J. Live loads on the roof during the Work shall not exceed the designed live load at anytime. If there is any question or concern about the structural integrity of the roof deck or other component related to the Work the contractor shall immediately stop work and have a structural engineer evaluate the conditions prior to proceeding. Notify both the Owner and Consultant immediately of the condition.

- K. Provide barricades and warning signs at outside excavations or at holes cut through walls, floors, or roofs in buildings, also as required about any working, lifting, or staging areas.
- L. Smoking is permitted in authorized areas only. Smoking is not permitted on the finished roof membrane.
- M. Contractor is required to provide generators and all other sources of power, water, etc.
- N. All emergency egress from the facility must be kept clear at all times.

1.02 SCAFFOLDING, LADDERS and RUNWAYS

- A. The Contractor shall provide all necessary scaffolding, ladders and runways as required by current legislation/codes (national, state, city) and maintain them properly for the safe use of his employees and protection of tenants/public.

1.03 PROTECTION OF WORK AND BUILDING

- A. The Contractor shall be responsible for the protection of the building interior and its contents from moisture, debris, and/or fume/odor penetration during all phases/operations of the Work.
- B. Contractor shall also be responsible for the protection of Owner's merchandise, furnishings and equipment by covering all items that may be affected during the Work with suitable protection such as but not limited to plastic tarp or other protection as specified in other sections of the contract documents.
- C. Provide protection of merchandise, equipment and personnel during operations creating dust/debris from roof tear-off and new roof installation, etc.

PART 2 - SCOPE AND CONTROL OF THE WORK

2.01 VERIFICATION OF EXISTING CONDITIONS

- A. Before submitting their Bid, the Contractor will visit the project site and verify conditions, locations and dimensions of all existing equipment, structures and site conditions that pertain to this installation.

- B. The Details shown and the information provided are not represented or guaranteed by Owner or Consultant as being accurate as to the actual "as built" and present conditions. Bidding Contractor will verify all conditions at the site and perform all Work to complete the project under this Contract, regardless of the variations that may be found, without additional cost.
- C. Bidders visiting the site for estimating purposes while site is occupied will abide by Owner's rules and regulations. Any and all job site conditions will be determined by Owner and/or its Consultant.
- D. Failure to examine the project buildings and the sites and to become familiar with the existing conditions will not constitute cause for complaint or claim for extra payment or change order. Contractor agrees to accept project sites as they exist.

2.02 MEETINGS

- A. Pre-Construction Conference:
 - 1. Prior to installation of the roofing system, representatives of the following entities will meet at each project site:
 - a. Owner
 - b. Consultant
 - c. Roofing Contractor
 - d. All Subcontractors
 - e. Material Manufacturer
 - f. Representatives of other entities directly concerned with installation or performance of the roofing system.
 - 2. Attendees will review all pertinent Details and Specification, noting any potential problems and making any changes, deletions or additions as deemed necessary. Included in the discussion will be the following:
 - a. Nature and availability of roofing materials, guarantee and submittal requirements
 - b. Scheduling
 - c. Forecast weather conditions
 - d. Regulatory requirements
 - e. Protection of building, building components and completed roofing system
 - f. Proposed installation procedures and any additional items related to the total roofing system.
 - 3. Attendees will tour roofing areas and discuss existing construction and general condition including roof slope, flashing details, drain locations and material compatibility.
 - 4. Discussions will be documented by the Consultant, including agreement or disagreement on matters of significance.

5. If the meeting ends with substantial disagreements, it will be determined how disagreements will be resolved and a date will be set for a reconvened meeting at the Owner's direction.
 6. A copy of the recorded discussion will be furnished to all attendees.
- B. Final Inspection:
1. Upon notification by the contractor that the work is complete, the Consultant will conduct a final inspection to review all Work to have been completed under the Contract Documents.
 2. Contractor shall accompany Consultant on the final inspection and shall have workers and materials available to complete any remedial work items identified during the inspection, weather permitting.
 3. If remaining remedial work items cannot be completed at the time of the final inspection the Contractor will address and complete all remaining work items within five (5) working days
 4. Upon final completion of all work items contractor shall forward written notification to the Consultant that the project is finally complete and ready for close-out.

2.03 DRAWINGS AND SPECIFICATIONS

- A. The Contractor will keep a complete and up to date copy of the project record documents at the job site, including, but not limited to; drawings and specifications, addenda, submittals, change orders, shop drawings, etc. The Consultant/Observer will have access to the site copy of documents at all times.
- B. The Drawings, Specification and other Contract Documents are intended to be complementary and cooperative and to describe and provide for a complete project. Anything contained in the Specifications but not shown on the Drawings, or shown on the Drawings and not enumerated in the Specifications, will be construed to be as though shown or referenced in both documents.
- C. Upon discovering any error or omission in the Drawings or Specifications, the contractor shall immediately bring the item to the attention of the Consultant.
- D. The division of the Drawings into separate depictions, views, sections or sheets and the division of the Specifications into paragraphs, divisions and sections are for the ease of reference only and does not imply a division of the work between trades or subcontractors.

- E. Titles or names given to, or accompanying, the various divisions, sections and paragraphs of the specifications are provided for the reader's convenience and/or ease of reference only and are not intended to limit or restrict by inference the content of the accompanying division, section, or paragraph.
- F. No prime Contractor, whose Bid is accepted, will substitute any person as a subcontractor in place of the subcontractor listed in the original Bid other than for cause, and when justified without the prior written authorization from the consultant and/or the Owner.
- G. Where a specialty Contractor's license is required by local code or regulation, or is specifically required by the specifications in order to meet a particular performance or technical requirement that is part of the Work, the work may be undertaken by the Contractor using their own forces if the contractor holds the proper license(s) or certifications required. Otherwise, Contractor shall retain a properly licensed or certified subcontractor to perform that portion of the Work.

2.04 CONTRACTOR'S PERFORMANCE OF WORK

- A. The Contractor will perform all Work necessary to complete the Contract in a manner that is consistent with the highest standards of the trade or industry.
- B. Unless otherwise stipulated in the specifications or contract agreement with the Owner, the Contractor shall directly furnish or provide all materials, equipment, tools, labor and incidentals necessary to complete the Work.
- C. Workmanship
 - 1. All Work under the Contract will be performed in accordance with the highest standards prevailing in each trade or as otherwise specified within the Contract Documents. When more than one standard or performance criteria is given for a particular work item, the more stringent standard or criteria shall apply.
 - 2. Unless otherwise specified, it is the intent of these specifications that completion of the Work shall result in a complete facility ready for the Owner's intended use.
 - 3. If inclement weather is anticipated during the Work period the Contractor shall take all precautions necessary to insure that all materials, previously installed roofing, building components not intended to be exposed to the weather, building interiors, furnishings, products/materials and equipment are protected from water intrusion, moisture damage or contamination.

4. Costs related to property damage caused by moisture contamination related to the contractor's roofing operations will be the sole financial responsibility of the Contractor.
 5. The Contractor will be currently approved and/or licensed by the manufacturer of the roofing materials to be used.
 6. The Contractor will use only skilled tradesmen completely familiar with the products and the manufacturer's current recommended methods of installation.
 7. Except as modified and supplemented herein, Contractor will follow the published requirements and written recommendations of the manufacturer of the roofing system and other materials manufacturers related to the Work.
 8. Where no other guidance or specification is given regarding the performance of the roofing work to be completed, the standards and methods promulgated by the latest edition of the National Roofing Contractor Association's *Roofing and Waterproofing Manual* shall provide the minimum requirements for the roofing work and the latest edition of the Sheet Metal and Air Conditioning Contractor National Association *Architectural Sheet Metal Manual* shall provide the minimum requirements for the roof related sheet metal work performed. All roofing and sheet metal work shall be performed in accordance with Factory Mutual Global (FMG) 1-60 wind uplift requirements and the applicable requirements stipulated for 1-60 wind uplift in FMG *Loss Prevention Data Sheets* 1-28 (roof deck), 1-29 (above roof deck components) and 1-49 (flashing and trim).
 9. If, in the opinion of the Contractor, any Work is indicated on drawings or specified in such a manner that cannot be reproduced on the roof being worked on, or should discrepancies or conflicts arise from one drawing to another, between sections of the specifications, or between the Drawings and the Specifications regarding a particular work item, the Contractor will notify the Consultant and/or the Owner before proceeding that portion of the work.
 10. The Contractor will furnish and maintain in good condition, all equipment and facilities as required for the proper execution and inspection of the Work. Such equipment and facilities will meet all requirements of the applicable ordinances and laws.
- C. Contractor's Authorized Representative
1. Before starting the Work, the Contractor will designate, in writing, a representative who will have complete authority to act for the firm. An alternate representative may be designated as well.
 2. The representative or alternate will be present at the Work site whenever the Work is in progress or whenever weather conditions necessitate their presence in order to protect the Work, persons, public or private property at the site related to the roof.

3. Any order or communication given to this representative will be deemed delivered to the Contractor.
- D. Contractor's Responsibilities Related to Existing Facilities and Operations
1. Unless otherwise noted in these documents the Owner's existing facilities and/or operations not specifically related to the Work shall be off-limits to all contractor personnel during the course of the project.
 2. The work site will be available to Contractor upon receipt of a written notice to proceed, unless otherwise indicated in this Specification. Care, custody and control of the site Work area, equipment area and material storage area are vested in the Contractor during the term of operations under the Contract.
 3. Means of ingress or egress to the Owner's buildings and operations will not be blocked for any reason nor will the normal operation of the buildings be hampered in any way unless authorization is obtained in advance from the Owner.
 4. Fire protection and immediate access for fire fighting equipment must be maintained at all times.
 5. It is Owner's intention that the existing buildings and normal operations will be maintained in the usual manner in accordance with the normal schedule. The Contractor executing this Contract Work must schedule his/her Work so as to cause the least amount of interfere with the Owner's normal activities at the site. The Contractor will also closely coordinate roofing activities with the Owner when working over interior spaces having critical occupancy requirements.
 6. Work that might interfere with the use of the facilities by Owner will be accomplished at a time approved beforehand by Owner.
 7. Use of Owner's utilities or site resources of any kind will be at the discretion of Owner. At no time will utilities or site resources be wasted.
 8. Water needed for the execution of this Contract will be furnished by Owner from available sources located near the building(s).
 9. Maintaining proper material temperatures shall not require use of the Owner's facilities or storage spaces and shall be the sole responsibility of the the Contractor.
 10. The utility services for the buildings will not be interrupted in any way by the Contractor unless agreed upon by Owner.
 11. Disturbing the building's occupants or the Owner's employees during the course of the work, or work causing disruptive noise that interferes with the normal building occupancy, will not be permitted. Operations creating disruption or noise of this type must be coordinated with, and scheduled in advance with, the Owner through the Consultant.
 12. Radios or other musical devices will not be allowed on any project.

- E. Contractor's Liability and Responsibility
 - 1. Owner and the Consultant connected with the Work shall not be liable for:
 - a. Any losses of, or damages to, the Work or a part thereof
 - b. Any losses of, or damages to, any of the materials or other items used or employed in the performing of the Work
 - c. Injury to or death of any person either workman or the public
 - d. Damage to property from any cause which might have been prevented by the Contractor, or his/her workman or other workmen, or anyone employed by him/her or any subcontractor.
 - 2. The Owner and Consultant shall neither have control over, charge of, nor shall be responsible for, the means, methods, techniques, sequences or procedures used in the performance of the work, or for safety programs in connection with the Work.

2.05 PERMITS AND LICENSES

- A. The Contractor will secure and pay for all permits relating to their Work, including governmental fees and licenses necessary for the proper execution and completion of the Work, which are applicable at the time the Bids are received.
 - 1. All required and approved sign-off permits shall be submitted to Owner as part of the conditions for final payment.
- B. The Bidder to whom award is made must possess a Roofing Contractor's license valid in the state the Work is being performed, as is applicable for the locality of the project.
- C. The Work shall be performed in accordance with all governing codes, ordinances, laws, regulations, safety orders and directives pertaining to construction work of this type, including specific local, county or state regulations or requirements. This includes handling and disposal of any hazardous or potentially hazardous materials encountered during the normal course of construction work of this type.
- D. Cooperation and Collateral Work
 - 1. The Contractor will absorb in his/her Bid all costs involved in his/her part as a result of coordinating his/her Work with others. The Contractor will not be entitled to additional compensation from Owner for damages resulting from such simultaneous, collateral and essential Work. If necessary to avoid or minimize such damage, or delay, the Contractor will redeploy his/her Work force to other parts of the Work.

2. Should the Contractor be delayed by Owner and such delay could not reasonably have been foreseen and prevented by the Contractor, the Consultant will determine the extent of the delay, the effect of the delay on the project as a whole and any commensurate extension of time.
3. The Contractor submitting the Bid to Owner has the responsibility for coordinating the Work of subcontractors and for scheduling all Work so a watertight condition is maintained and all Work required by the Contract Documents is completed as scheduled.
4. The Contractor must coordinate Work of various trades employed by his/her firm so stated completion date is met.

2.06 PROTECTION AND RESTORATION OF EXISTING BUILDING AND SITE

- A. Prior to start of Work, Contractor will perform a thorough inspection of each building's interior and exterior noting all existing damage, including past or current moisture related damage.
 1. Documentation of this inspection will be submitted to Owner's representative, through the Consultant, prior to beginning Work.
 2. The Contractor will be responsible for correction of any subsequent, undocumented moisture damages
- B. Contractor will check all perimeter drains (where they exist) prior to start of Work in each roof area to determine if the drain assembly/drain line is plugged or if the drain body or any of its components are damaged or missing.
 1. Any of these items are to be brought to the attention of Owner, through the Consultant, prior to starting Work and will be Owner's responsibility for correction.
 2. Any previously undocumented plugged or damaged drains brought to the attention of Owner after Work has started will be the responsibility of the Contractor to correct.
- C. The Contractor will be responsible for the protection of public and private property adjacent to the Work and will exercise due caution to avoid damage to such property.
- D. The Contractor will repair or replace all existing building and landscaping components which are damaged or removed as a result of his/her operations and were not previously designated for removal (e.g. curbs, sidewalks, driveways, fences, walls, sign, utility installations, pavements, structures, etc.).
 1. The corrective work to damages, or the replacement of severely damaged items, will be performed so that the quality and condition of the repaired or replaced item is equal to the original item's condition and matches the original finish and dimensions of the repaired item.

- E. Contractor will provide all necessary equipment, storage, etc. to temporarily remove any existing landscape material during the roofing project.
 - 1. Trees, lawns and shrubbery that are damaged or removed because of the Contractor's operation, will be restored or replaced in as nearly the original condition and location as is reasonably possible.
- G. The Contractor will notify the Consultant if any seriously deteriorated hidden structural member is uncovered, prior to placement of new roofing materials. Replacement of any deficient structural member, not specifically designated for replacement, will be at the decision and expense of Owner.
- H. Existing materials designated to remain, which are damaged or defaced as a result of the Work and are unsuitable for the use intended, will be replaced at the Contractor's expense to the satisfaction of Owner.
- I. Where necessary to remove or alter existing construction, all construction affected will be properly patched and filled out to match existing, or new Work.
- J. Patch defective or incomplete surfaces caused or exposed by Work at the project using approved procedures and materials.
- K. Contractor will remove markings from finished surfaces. In areas where finished surfaces are soiled by any source, caused by Work of this section, consult manufacturer of surfaces for cleaning advice and conform to instructions.
- L. Contractor is to keep the Work area and premises clean and free from accumulations of waste materials and rubbish at all times. Remove all debris, scrap and rubbish from the Work area daily.
- M. Surplus materials and all equipment will be promptly removed from the site upon completion of the Work. In case of undue delay or dispute, Owner may remove rubbish, materials and equipment and charge cost to Contractor, with such action permissible by Owner forty-eight (48) hours after a written notice has been transmitted to Contractor.
- N. Prior to final acceptance, Contractor will restore all areas affected by Owner Work to Owner original state of cleanliness and repair all damage done to the premises, including the grounds, by his/her workmen and equipment.

- O. The Contractor will not discharge smoke, dust, or any other air contaminant into the atmosphere in such quantity as will violate the regulations of any legally constituted authority.
- P. The Contractor will provide and maintain enclosed toilets for the use of employees engaged in the Work.
 - 1. These accommodations will be maintained in a neat and sanitary condition and placed in an area selected by the Owner. All sanitary facilities will comply with all applicable laws, ordinances and regulations pertaining to public health and sanitation of dwellings and camps.
- Q. The Contractor will at his/her own expense, furnish, install, maintain and remove all temporary light, power, and water, including piping, wiring, lamps and other equipment, necessary for the Work.
 - 1. The Contractor will not draw water from any fire hydrant, except to extinguish a fire, without first obtaining permission from the water agency concerned.

2.07 SAFETY AND HEALTH PROCEDURES

- A. Public Safety
 - 1. Safety Orders
 - a. The Contractor will have at the Work site, copies or suitable extracts of: Construction Safety Orders and general Industrial Safety Orders issued by the federal, state or municipality. Contractor will comply with the provisions of these and all other applicable laws, ordinances and regulations.
 - b. Payment for performing all Work necessary to provide safety measures will be included in the prices Bid for other items of Work.
 - 2. Special Hazardous Substances and Processes
 - a. Materials that contain hazardous substances or mixtures may be required on the Work. A Material Safety Data Sheet (MSDS) as described in the federal, state and municipal codes will be requested by the Contractor from the manufacturer of any hazardous material used and provided to Consultant per submittals.
 - b. Material usage will be accomplished with strict adherence to federal, state municipal including and/or project requirements and all manufacturer's warnings and application instructions listed on the Material Safety Data Sheet and on the product container label.
 - c. The Contractor will notify the Consultant if a specified product cannot be used under safe conditions.

3. The Contractor will restrict public access by installing opaque fencing, such as a green screen, around the setup or staging areas.
- B. General
1. These Construction Documents are to be governed, at all times, by applicable provisions of the State and Federal Law(s) including but not limited to the latest amendments of the following:
 - a. William-Steiger Occupational Safety and Health Act of 1970, Public Law 91-596.
 - b. Part 1910-Occupational Safety and Health Standards, Chapter XVII of Title 29, Code of Federal Regulations.
 - c. Part 1518-Safety and Health Regulations for Constructions, Chapter XIII of Title 29, Code of Federal Regulations.
 - d. OSHA.
 2. This program will become a part of the Contract Documents and the Contract between Owner's Representative and Contractor and the Contractor and all Subcontractors, as though fully written herein.
 3. For the purposes of this Contract, neither Owner's Representative nor their Consultant and Consultants' Observers are to be considered experts in safety. All construction safety issues are the sole responsibility of the Contractor.
- C. Safety Provisions
1. Precaution will be exercised at all times for the protection of persons, including employees and property. The safety provisions of applicable laws and building and construction codes will be guarded or implemented in accordance with the safety provisions of the Manual of Accident Prevention, Title 8, Chapter 4, Subchapter 4.
 2. All equipment used in construction or to be installed will meet the requirements of all applicable codes, particularly the regulations of the state of jurisdiction, Division of Industrial Safety and the Occupational Safety and Health Act of 1970. Equipment will have all required protection devices such as belt and shaft guards, heat protection, insulation, clearances warnings, etc. For equipment, which is to be installed, such devices will be indicated on shop drawings and reviewed by the Consultant.
- D. Necessary controls will be provided to prevent pollution of the air by odors or particulate matter. The location and operation of heating equipment will be such that no hazard is created and objectionable odors do not enter the building.

- E. Reasonable precautions must be exercised to prevent vandalism and to safeguard the public at the existing buildings. Equipment will not be left unprotected and materials will be carefully stacked. The set-up or staging area must be controlled at all times so that no unauthorized person can access the Contractor's equipment or materials, day or night.

PART 3 - CHANGES IN WORK

3.01 CHANGES REQUESTED BY THE CONTRACTOR

- A. Any potential change in the contract shall be submitted using a *Request for Change Order* and submitted to the Owner and Consultant. Requests for changes submitted in the *Request for Change Order* shall cover all costs and charges including costs for material, labor, fabrication, delivery and hauling, handling, installation or application, supervision, taxes, employer's contributions, insurance, bonds, rentals, utility costs, overhead and profit.
 - 1. Changes in specified methods of construction may be made at the Contractor's request when the *Request for Change Order* is approved in writing by the Consultant as a *Field Order Directive*.
 - 2. Changes in the Drawings and Specifications, requested in a *Request for Change Order* by the Contractor, which do not materially affect the Work, schedule or contract and which are not detrimental to the Work or interest of Owner, may be granted in writing through a *Field Order Directive* by the Consultant to facilitate the Work.
- B. Requests for changes deemed by the Owner as affecting the contract, contract amount or the schedule will require a written *Change Order* to be issued by the Owner to the Contractor and be executed by both prior to the commencement of any changes in the Work.

3.02 CHANGES REQUESTED BY THE OWNER

- A. Owner requests for changes to the Work will be issued through a *Request for Change Order Proposal* issued to the Contractor through the Consultant.
- B. The Contractor shall provide the costs to perform the changes to the Work covering all costs and charges including costs for material, labor, fabrication, delivery and hauling, handling, installation or application, supervision, taxes, employer's contributions, insurance, bonds, rentals, utility costs, overhead and profit.

- C. Upon receipt of an acceptable proposal from the Contractor to perform the changes in the Work requested by the Owner, the Owner shall issue a written *Change Order* to be executed by both the Owner and Contractor prior to the commencement of any changes in the Work.

PART 4 - INSURANCE

4.01 CONTRACTOR'S INSURANCE COVERAGES

- A. Contractor shall maintain insurance coverages as outlined in the Troy School District *Service Agreement* (Form 931) attached to these specifications. Contractor is also responsible for its Subcontractors maintaining sufficient limits of the same insurance coverage.
- B. Certificates of insurance shall be provided by each party showing their respective coverages prior to commencement of the Work.

END OF SECTION 00 73 00/ SUPPLEMENTAL CONDITIONS

SECTION 01 06 00
REGULATORY REQUIREMENTS

PART 1 – GENERAL

1.01 SCOPE

- A. The Work shall be performed in accordance with all governing codes, ordinances, laws, regulations, safety orders and directives pertaining to construction work of this type, including specific local, county or state regulations or requirements. This includes handling and disposal of any hazardous or potentially hazardous materials encountered during the normal course of construction work of this type.

1.02 REGULATORY REQUIREMENTS

- A. Occupational Safety and Health (OSHA) regulations for construction, workplace safety, and other codes, rules and ordinances governing Work are as fully a part of this Specification as if herein repeated.
- B. All products shall comply with State V.O.C. (Volatile Organic Content) Legislation.
- C. Building Codes:
 - 1. All work to be conducted according to the applicable model building code(s) as amended and promulgated by the state and municipal authorities in the state and municipality in which the facility is located in.
 - 2. All work to be conducted according regulatory agencies governing safety, hazardous materials, environmental protection, transportation, and insurance.

1.03 ASBESTOS

- A. As necessary comply with provisions of local, state and national regulatory requirements for the identification, removal and disposal of Asbestos Containing Building Materials (ACBM) and Asbestos Containing Roofing Materials (ACRM) including but not limited to:
 - 1. Environmental Protection Agency (EPA):
 - a. EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR, Part 61, Subpart M.
 - b. Where removal of existing roofing is required, compliance with EPA “Guidance for Controlling Asbestos-Containing Materials (ACM) in Buildings” (EPA 560/5-85-024) is mandatory.
 - 2. Occupational Safety and Health Administration (OSHA)
 - a. OSHA Standard for Occupational Exposure to Asbestos in construction work, 29CFR1926.1101.
 - 3. Department of Transportation (DOT).
 - a. Hazardous Material Rules.

1.04 ROOF SYSTEM: FIRE AND WIND

- A. Refer to roofing section(s) under Division 7 Thermal and Moisture Protection and Cover Page – CP Drawing for fire and wind performance requirements.
- B. Underwriters Laboratories, Inc. (UL.):
 - 1. Fire Classification Rating: UL 790 Standard;
- C. Factory Mutual Global (FMG):

1. FM Standard 4470: Class 1 Roof Covers

1.05 EXISTING CONDITIONS AND DEMOLITION

- A. Refer to Section 02 41 19 Selective Demolition.
- B. Conform to applicable Codes for demolition of roofing, safety of adjacent structures, dust control and disposal.
- C. Conform to applicable regulatory procedures when hazardous or contaminated materials are present.

1.06 INSURANCE

- A. Owner insurance requirements applicable to the site, facility and work during the course of the project shall be strictly adhered to by Contractor.

PART 2 – PRODUCTS

Not Used.

PART 3 – EXECUTION

Not Used.

END OF SECTION 01 06 00/ REGULATORY REQUIREMENTS

SECTION 01 14 19

RESTRICTIONS AND USE OF SITE

PART 1 – GENERAL

1.01 CONTRACTOR FACILITY RULES

- A. Motor vehicles will be permitted at the designated areas to load or unload materials, equipment, tools, trash, etc. All motor vehicles while on Owner's and adjacent property shall be driven slowly with extreme caution obeying all posted traffic signs.
- B. Contractor has the responsibility to protect all his personal property, materials, equipment, etc. from theft.
- C. Contractors shall not leave materials, tools, etc. lying in an unsafe manner while working on the Owner's property. Do not store tools or materials
- D. No gambling, drugs or alcoholic beverages will be permitted on the site at any time. No individual under the influence of drugs or alcohol will be permitted on site.
- E. Contact Owner or Consultant prior to placing or using any rigging, hoists, cranes, temporary stairs, and towers, etc.
- F. Smoking is permitted in Owner authorized areas only. Smoking is not permitted on the finished roof membrane.
- H. Contact Owner or Consultant prior to placing or using any rigging, hoists, cranes, temporary stairs, and towers, etc.
- I. Radios or other musical devices will not be allowed on any project.

1.02 UTILITIES

- A. Refer to Section 00 73 00 Supplemental Conditions for Owner supplied utilities.
- B. The utility services for the facility will not be interrupted in any way by the Contractor unless agreed upon in writing and coordinated with the Owner.

1.03 STRUCTURAL

- A. Live loads on the roof during the Work shall not exceed the designed live load at anytime. If there is any question or concern about the structural integrity of the roof deck or other component related to the Work the contractor shall immediately stop work and have a structural engineer evaluate the conditions prior to proceeding. Notify both the Owner and Consultant immediately of the condition.
- B. The Contractor will notify the Consultant if any seriously deteriorated hidden structural member is uncovered, prior to placement of new roofing materials. Replacement of any deficient structural member, not specifically designated for replacement, will be at the decision and expense of Owner.

1.04 BARRICADES

- A. Provide barricades and warning signs at all operations of the Work which are deemed hazardous by the Consultant to the movement of both Contractor's/Owner's personnel and pedestrians/passersby.
- B. Provide barricades and warning signs at outside excavations or at holes cut through walls, floors, or roofs in buildings, also as required about any working, lifting, or staging areas.

1.05 EGRESS/ INGRESS

- A. Do not in any way block, hinder, or obstruct fire escape and/or other emergency egress routes of the structures (interior and exterior). Comply with regulations and requirements of local fire prevention codes.
- B. Means of ingress or egress to the Owner's buildings and operations will not be blocked for any reason nor will the normal operation of the buildings be hampered in any way unless authorization is obtained in advance from the Owner in writing.

PART 2 – PRODUCTS

Not Used.

PART 3 – EXECUTION

Not Used.

END OF SECTION 01 14 19/ RESTRICTIONS AND USE OF SITE

SECTION 01 21 00

ALLOWANCES

PART 1 - GENERAL

- 1.01 The Contractor shall include in the Contract Sum all allowances (i.e. "Unit Price Work") stated in the Contract Documents.
- 1.02 Items covered by allowances shall be supplied and installed on a unit price basis, as required to meet the Contract Document.
- 1.03 Unless otherwise provided in the Contract Documents:
- A. Allowances shall cover the cost to the Contractor of labor, materials and equipment delivered at the site and all required taxes, less applicable trade discounts, freight charges, applicable taxes, cost for unloading and handling at the Site and all costs of installation. ;
 - B. Overhead and profit is not included in the allowance. However, the Contractor expressly acknowledges and agrees that overhead and profit with regard to the allowance item is included in the Contract Price.
 - C. Whenever costs are more than or less than allowances, the Contract Sum shall be adjusted accordingly by Change Order.
 - 1. The amount of the Change Order shall reflect:
 - a. The difference between actual amount of the allowance item used versus the amount of that item included in the base bid or base contract amount, whichever is applicable. The allowance adjustment will cause the Contract price to be changed to reflect the new amount.

PART 2 – PRODUCTS:

NOT USED

PART 3 – EXECUTION:

- 3.01 Contractor shall supply schedule of values for each allowance item.
- 3.02 Allowance schedules and Unit Price Items are listed on the Cover Page – CP drawing.
- 3.03 Allowances are to be tracked, documented and submitted to the Owner and Consultant by the Contractor.
- 1. If the Owner employs Quality Control Inspectors it does relieve the Contractor from providing exact documentation of Allowances used during the Work.
 - 2. The Contractor shall document all Allowances with photographs; retained materials demoed executing the Allowances, and, marking locations on the Roof Plan.
 - 3. Any materials retained to show execution of Allowances shall be disposed of by the Contractor in a licensed disposal site and not used for any construction project.
- 3.04 Upon project completion a Change Order Request will be submitted online at www.wtcg.net for the difference in Contractors allowance cost and the actual allowance used for the project.

END OF SECTION 01 21 00/ALLOWANCES

SECTION 01 23 00

ALTERNATES

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Work Included:
 - 1. Materials and methods to be used in the base bid and the alternate have been described on the drawings and in pertinent sections of these specifications.
 - 2. Method for stating the proposed alternate as described in the bid form.

1.02 BID SUBMISSION

- A. Alternate bids shall be submitted according to the Bid Documents and the Alternate bid shall include all terms and requirements of the Bid Documents.
 - 1. Acceptance of an Alternate by Owner does not relieve the Contractor from complying with the Bid Documents.
- B. Submit all Alternates on the Bid Form located at www.wtcg.net.
- C. Those Alternates described in the Schedule on the Cover Page – CP drawings are to be reflected on the bid form as submitted by bidders. Do not submit alternates other than as described in the Schedule.
- D. Alternates shall cover the cost to the Contractor of materials and equipment delivered at the site and all required taxes, less applicable trade discounts;
- E. Contractor's costs for unloading and handling at the site, labor, installation costs, overhead, profit and other expenses contemplated for stated allowance amounts shall be included in the alternate bid;
- F. Alternate bids are to be submitted as either an "ADD" or "DEDUCT" to/from the "Base Bid" amount submitted on the Bid Form.

1.03 PRODUCT HANDLING

- A. If the owner elects to proceed on the basis of one or more of the described alternatives, make all modifications to the work required in furnishing and installing the selected alternate or alternates to the approval of the consultant and at no additional cost to the owner other than as proposed on the bid form.

PART 2 - PRODUCTS

2.01 ALTERNATE

- A. In lieu of the base bid, furnish and install an alternate per the drawings and other pertinent sections of the specifications.
- B. When an alternate is offered all other project requirements are to remain essentially the same.
- C. Approved alternates are enumerated on the drawings. No other alternatives will be considered.

PART 3 - EXECUTION

3.01 ADVANCE COORDINATION

- A. Immediately after award of the contract, or as soon thereafter as the owner has made a decision on which, if any, alternates will be selected, thoroughly and clearly advise all necessary personnel and suppliers as to the nature and extent of alternatives selected by the owner. Alert those personnel and suppliers involved as to all changes in the work caused by the Owner's selection or rejection of alternates

END OF SECTION 01 23 00/ALTERNATES

SECTION 01 32 00

CONSTRUCTION SCHEDULE

PART 1 – GENERAL

1.01 GENERAL

- A. This Section provides for the planning and execution of Work in order to assure completion of the Work within the number of calendar days provided in the Contract. The Construction Schedule is utilized by the Owner to evaluate the proposed schedule and progress of the Work. Contractor shall prepare and maintain schedules described in this Section.
- B. The construction schedule shall be submitted and approved by the Owner and Consultant. The schedule is subject to revision by the Owner or Consultant as necessary to accommodate other trades, construction projects and Owner operations.
- C. WeatherTech and Contractor will maintain online “Schedule” at www.wtcg.net for primary tasks and milestone events for the project to communicate the schedule on a daily basis:
 - 1. Contractor is required to monitor, update and comply with the schedule.
 - 2. Contractor to inform Owner and Consultant of any delays or anticipated delays immediately.

1.02 QUALITY CONTROL

- A. Standard Reference: Data preparation, analysis, charting, and updating shall be approved by Owner or Consultant.
- B. Approved Schedule:
 - 1. The Construction Schedule as approved by the Owner or Consultant shall become part of the Contract, thereby establishing interim Contract completion dates for the phases of the Work.
 - 2. Should any portion of the Work not be completed within ten (10) working days after the date stated in the Construction Schedule, the Owner or Consultant shall have the right to order the Contractor to complete the portion of Work by whatever means the Owner or Consultant deems necessary and appropriate, without further compensation to the Contractor.
 - 3. Should any portion of the Work be ten (10) working days or more behind schedule, the Owner or Consultant shall have the right to perform the Work or have the Work performed by whatever method the Owner or Consultant deems appropriate.
 - 4. Costs incurred by the Owner for expediting work as described in this item shall be reimbursed by the Contractor or deducted from his contract.
 - 5. Should the Owner or Consultant waive the right to order the Contractor to expedite any portion of the Work, this shall not be construed as the Owner or Consultant waiving this right for any other portion of the Work.
- C. Changes to Schedule:
 - 1. If the Contractor desires to make a major change in his/her method of operation after commencing construction, or if the schedule fails to reflect the actual progress, the Contractor will submit to the Consultant a revised construction schedule in advance of beginning revised operations.
 - 2. If the proposed percent Work complete is less than the percent time elapsed, the Contractor will provide sufficient information and backup to show that the Work can be completed on time.

3. An updated construction schedule will be submitted prior to the next progress payment closure date whenever the actual percent of Work complete is less than the percent time elapsed.
4. When required by the Supplemental Conditions, a revised schedule will be submitted prior to each progress payment closure date. Processing of the progress payment will be delayed until such revised schedule complying with this section is received.
5. Revised and updated schedules will show actual completion to the date of the revision in the lower segmented bar for each item. All schedule information will be consistent with that reported on payment request forms, AIA G702/703.

1.03 SUBMITTALS

- A. General: Comply with the provisions of Section 01 33 00-Submittals.
- B. Construction Schedule: Contractor shall submit one (1) reproducible copy and Microsoft Excel spreadsheet electronic version of the Construction Schedule and Material Status Report within five (5) days of award of the Contract. Material Status Report shall be prepared in accordance with the requirements of Part 2 of Section.
- C. Periodic Reports: An updated Construction Schedule and Material Status Report shall be submitted on the first working day of each week.

1.04 TIME OF COMPLETION

- A. General: The Contractor will complete the Work within the time set forth in the Contract. Unless otherwise specified, the time of completion of the Contract will be expressed in Working days.
- B. Working Day: A Workday is any day within the period between the start of the Contract time and the date provided in the Contract for completion, other than:
 1. Saturday, Sunday or any day designated as a National Holiday.
 2. Any day the Contractor is prevented by Owner from working.
 3. Weather delays due to wet conditions excluded.
- C. Contract Time Accounting: The Consultant will make a daily determination of each Working day to be charged against the Contract time.
- D. Starting of Contract Time: The Contract starting time will be the date the Notice to Proceed is issued.
- E. Non-Complying Work: Neither the final certificate of payment nor any provision in the Contract Document, nor partial or entire occupancy of the premises by Owner, will constitute approval of Work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship.

PART 2 - PRODUCTS

2.01 CONSTRUCTION SCHEDULE

- A. The Construction Schedule shall graphically depict the order of all portions of the Work necessary to complete the project, along with the sequence in which each portion of the Work shall be performed. The Construction Schedule shall include, but is not limited to:
 1. Project mobilization.
 2. Submittals and approvals of Show Drawings and Samples;
 3. Procurements of material and equipment;

4. Fabrication of special material and equipment, their installation, and testing;
5. Interior Protection;
6. Demolition and installation of new materials to watertight condition daily;
7. Flashing installation;
8. Membrane installation;
9. Final clean up;
10. Final inspection and testing.
11. All activities deemed necessary by the Owner or Consultant that affect progress, required dates for completion, or both, for all or each portion of the Work.

2.02 MATERIAL STATUS REPORT

- A. Format: Contractor's Standard Materials Status Report shall be acceptable if the Owner or Consultant determines the report provides sufficient data to determine that material procurement flow is acceptable for the Work.
- B. Contents: The following information, as a minimum, shall be provided.
 1. Description of item listed in accordance with Section number containing the item.
 2. Purchase order number and date of issue.
 3. Vender name.
 4. Date shipped and shipping mean utilized.
 5. Estimated date of arrival at the job site.
 6. Actual date of arrival at job site and receiving report number.

PART 3 – EXECUTION

3.01 GENERAL

- A. Schedule and supervise work crews so that the area of roofing begun one day is completely finished before leaving the job site that day. The definition of daily-completed roofing will be as agreed to in the Pre-Construction Conference and all flashings within and adjoining the membrane.
- B. Schedule work to coincide with new roofing work. All existing roofing removed shall be replaced with new roofing in watertight condition each day. All decking or building components exposed by demolition shall be put in a watertight condition each day.
- C. Provide a schedule describing demolition removal procedures, staging and schedule.
- D. Provide the Owner with sufficient advance notice when planning to work outside of normal hours so that Owner's consultant, personnel, security forces, and other interested parties may be advised.

3.02 HOURS OF WORK

- A. Hours of Work will be stated in the Supplemental Conditions or as clarified during Pre-Bid Conferences. In general, hours of Work will coincide with store operations to the extent that no disruption of store operations or the surrounding neighborhood will be allowed.
- B. To permit proper coordination of access for Contractor Work, required inspections and store operations, the Contractor's regular Work schedule will be specific for start and end times of various job phases each day (removal, reroofing, crew change, hauling, etc.). Any changes will be coordinated in advance with the Consultant, Troy School District Project Manager and Store Management.

3.02 SEQUENCE OF WORK

- A. Beginning of Work: The contractor will not mobilize for the job, deliver any materials or start any Work on the project site prior to receipt of a written Notice to Proceed.
 - 1. A Notice to Proceed will be issued only following receipt and approval of all Submittals as required in Section 01 33 00 Submittals.
 - 2. The issuance of Notice to Proceed will constitute the Contractor's authority to enter upon site of the Work and begin operations provided he/she has also notified the Consultant at least forty-eight (48) hours in advance.

- B. Starting Work:
 - 1. The Contractor may start Work at any time after the Notice to Proceed is issued or at such other time as may be indicated in the Special Project Conditions. The actual date on which the Contractor starts Work will not affect the required time for completion.

- C. Work Sequence:
 - 1. If required by the Supplemental Conditions, the Contractor will start construction operations on that part of the project designated by the Consultant.

- D. Resources Required:
 - 1. The Work will be conducted in such a manner and with sufficient materials, equipment and labor to ensure its completion in accordance with the Plans and Specification within the time set forth in the Contract.

- E. It is expressly understood and agreed that failure by Owner to exercise the option to either order the Contractor to expedite an activity or to expedite the activity by other means will not be considered precedent setting for any other activities.

3.03 DELAYS AND EXTENSION OF TIME

- A. General:
 - 1. If delays are caused by unforeseen events beyond the control of the Contractor, such delays will entitle the Contractor to an extension of time as provided herein, but the Contractor will not be entitled to damages or additional payment due to such delays. Such unforeseen events may include war, government regulations, labor disputes, strikes, fire, floods, adverse weather necessitating cessation of Work, other similar actions of the elements, inability to obtain materials, equipment or labor, required extra Work, or other specific events as may be further described in the Specification.
 - 2. No extensions of time will be granted for a delay caused by the Contractor's inability to obtain materials unless the Contractor furnishes to Owner documentary proof of the inability to obtain such materials in a timely manner in accordance with the sequence of the Contractor's operations and the approved construction schedule.
 - 3. If delays beyond the Contractor's control are caused by events other than those mentioned above, but substantially equal in gravity to those enumerated and an extension in time is deemed by the Consultant to be in the best interests of Owner, an extension of time may be granted, but the Contractor will not be entitled to damages or additional payment due to such delays.
 - 4. If delays beyond the Contractor's control are caused solely by action or inaction by Owner, such delays will entitle the Contractor to an extension of time as provided in the contract documents.

- B. Extension of Time
 - 1. Extensions of time, when granted, will be based upon the effects of delays to the project as a whole and will not be granted for non-controlling delays to minor included portions of Work unless it can be shown that such delays did, in fact, delay the progress of the project as a whole.

- C. Written Notice and Report
 - 1. If the Contractor desires an extension of time, he/she will provide Owner, through the Consultant, a written request and report as to the cause and extent of the delay. The request for extension must be made at least fifteen (15) days before the specified completion date. Failure by the Contractor to file these items within the time specified will be considered grounds for refusal by Owner to consider such request.

- D. Documentation of Delays
 - 1. When the Contractor requests an extension of time for delay due to inability to obtain materials or equipment, his/her report will include the following:
 - a. Date Owner was notified of potential delay.
 - b. Date requested to start the delay.
 - c. Exact description of material or equipment causing delay.
 - d. Documentation showing when and from whom ordered.
 - e. Documentation of promise to deliver.
 - f. Documentation of actual delivery date.
 - g. Description of how late delivery will cause delay.
 - h. Documentation of measures taken to obtain prompt delivery.
 - i. Documentation of attempts to obtain delivery from other sources.
 - j. Description of steps taken in project scheduling to minimize effects of late delivery.
 - k. Description of steps to be taken to get project back on schedule after actual delivery.
 - l. Statement of actual time lost as a result of late delivery.

END OF SECTION 01 32 00/ CONSTRUCTION SCHEDULE

SECTION 01 32 13**WEBSITE & DOCUMENTS**

PART 1 – GENERAL

1.01 SUMMARY

- A. **Contract Documents:** Including, but not limited to; the Contract, Addenda (which pertains to the Contract Document), invitation to Bids, instruction to the Bidders; Bid (including documentation submitted prior to the Notice of Award), when attached as an exhibit to the Contract, the bonds, the General Conditions, permits from other agencies, the Supplemental Conditions, Drawings, General and Technical Specifications, and all Project Website information and documentation; and, all Contract Modifications (Change Orders, Unit Pricing) issued after the execution of the Contract.
- B. Contractor shall maintain one full copy of Contract Documents on the Job Site at all times during performance of any work.
 - 1. Failure of proper installation by the contractor, due to unavailability of Contract Specifications or Drawings on the roof, constitutes negligence.
 - 2. The Consultant/Observer will have access to the site copy of documents at all times.
- C. Contractor shall maintain a minimum of one worker who can read and interpret all contract documents on site at all times.
- D. Contractor shall maintain a minimum of one worker who can access and use the WeatherTech project website location dedicated to the Project at all times during the performance of the Contract.
- E. Contractor shall maintain an accurate record of all quantities, locations, progress and changes in the Contract Work as described in Part 3 of this Section.
- F. Contractor shall maintain all required Website documentation daily during performance of the Contract.
- G. Contractor shall transfer the recorded changes to a set of Project Contract Documents and Project Website location upon Work completion, as described in Part 3 of this Section.
- H. Contractor shall provide and maintain a color photographic record of all conditions of work specified for reroofing, repair, unit pricing and all probe openings.

1.02 USE

- A. The Drawings, Specification and other Contract Documents in Project Website are intended to be complementary and cooperative and to describe and provide for a complete project. Anything contained in the Specifications but not shown on the Drawings, or shown on the Drawings and not enumerated in the Specifications, will be construed to be as though shown or referenced in both documents and website. Anything contained on the website but not shown in the Specifications and Drawing will be construed to be as though shown on all three Contract Documents.
- B. The division of the Drawings into separate depictions, views, sections or sheets and the division of the Specifications into paragraphs, divisions and sections are for the ease of reference only and does not imply a division of the work between trades or subcontractors.

- C. The presentation of information and use of the Project Website are intended to be complementary to the written Drawing and Specifications and completion of the Work.
- D. Titles or names given to, or accompanying, the various divisions, sections, tabs and paragraphs of the specifications and website are provided for the reader's convenience and/or ease of reference only and are not intended to limit or restrict by inference the content of the accompanying division, section, or paragraph in writing or on the website.

1.03 QUALITY CONTROL

- A. The roofing contractor's appointed Quality Controller shall be responsible for maintenance of Project Contract Documents and Website.
- B. Accuracy: All inspections and work within Project Contract Documents shall be entered on each Drawing and/or other documents including the Project Website required to properly show the Project Contract Documents may reasonably rely on information obtained from the approved project Contract Documents.
- C. Timing: All entries shall be recorded within twenty-four (24) hours of receipt of information, inclusive of recording of all locations, quantities, and other pertinent information. All entries on Project Contract Documents shall be initialed and dated. The Project Website tracks entries when Contractor personnel log on to the website.

1.04 SUBMITTALS

- A. General: Owner or Consultant's approval of Project Contract Documents will be necessary prior to the Owner's approval of Payment Applications and final payment under the Contract.
- B. Progress Submittals: Each request for progress payment shall contain Owner or Consultant's approval of Project Contract Documents including Website documentation.
- C. Final Submittal: The final Project Contract Documents and Website content shall be submitted according to Section 01 77 00 prior to submittal of final payment request.

1.05 PROJECT DOCUMENT HANDLING

- A. Project Contract Documents shall be maintained from deterioration and/or loss and damage until completion of the Work and transfer to Final Project Contract Documents. In the event of loss, Contractor shall use all necessary means to secure the data in the satisfaction of Owner or Consultant, inclusive of removal and replacement of materials. In such cases, replacement shall be in accordance with specific requirement.

1.06 PROJECT WEBSITE

- A. Project Website at www.wtcg.net shall be maintained to avoid damage from viruses and other forms electronic vandalism. In the event of loss, Contractor shall use all necessary means to secure the data in the satisfaction of Owner or Consultant, inclusive of removal and replacement of materials. In such cases, replacement shall be in accordance with specific requirement.

PART 2 – PRODUCTS

Not Used.

2015 ROOF RESTORATION PROJECT
PART 3 – EXECUTION

WEBSITE & DOCUMENTS

3.01 PROJECT DOCUMENTS AND WEBSITE

- A. Identification: Each set of Project Contract Documents shall be titled “Project Documents – Job Set.”
- B. Maintenance
 - 1. Contractor shall provide Owner or Consultant with written method for protection of Project Contract Documents.
 - 2. Job Set Project Contract Documents shall not be used for any purpose other than recording new data and review by Owner or Consultant prior to transfer of data to Final Project Contract Documents.
 - 3. Job Set Project Documents and Project Website shall be maintained during the progress of the Work until transfer of data to Final Project Contract Documents.
 - 4. Project Website shall be updated every day with required information according to the Contract Documents.
- C. Entries on Drawings: All entries on Drawings shall be made by use of erasable colored pencil (ink or indelible pencil shall not be permitted). All entries shall clearly indicate location and quantities as required and shall be dated. In the event of overlapping changes, different colors may be used for each of the entries.
- D. Entries on Other Documents
 - 1. Clearly indicate all changes in the Work requested by Owner or Consultant.
 - 2. All changes in the Work caused by Contractor-originated proposal, approved by the Owner or Consultant (including Contractor errors approved by Owner or Consultant), shall be clearly indicated in erasable colored pencil.
 - 3. All entries as approved by Owner or Consultant shall be made in the pertinent Document or on the Project Website.
- E. Accuracy: Installed items shall be located by use of all means necessary, including the use of proper tools for measurements.

3.02 FINAL PROJECT CONTRACT DOCUMENTS

- A. The Final Project Documents shall be submitted according to Section 01 77 00.
- B. The Project Website shall have full and complete entries and ready for electronic database archiving.

END OF SECTION 01 32 13/ WEBSITE & DOCUMENTS

SECTION 01 33 00

SUBMITTALS

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Requirements for submittals.
- B. Submittal procedures for Show Drawings, Product Data, and Samples.

1.02 RELATED REQUIREMENTS

- A. Product options and substitutions.
- B. Definitions and additional responsibilities of parties (Bid Documents).
- C. Requirements of individual Sections of Specifications.
- D. The roofing contractor is responsible for processing and submitting all specified roofing submittals.

1.03 SUBMITTAL REQUIREMENTS

- A. Submit to Owner or Consultant at least fourteen (14) days before pre-construction conference. Contractor shall not procure any materials or systems, or initiate the production, fabrication, or assembly of any product or system, unless required submissions have been reviewed and approved.
- B. Transmit submittals in accordance with approved Progress Schedule and in such sequence to avoid delay in the work or work of other contracts or sections. No work requiring a submittal shall be started without submittal approval by Owner or Consultant or specific waiver from Owner.
- C. Provide designated space on each submittal for Contractor and Owner or Consultant stamps/comments.
- D. Apply Contractor's stamp, signed, or initialed, certifying review and verification of products, field measurements, field construction criteria, and conformance with requirements of work and Contract Documents.
- E. Coordinate submittals into logical groupings to facilitate interrelation of several items.
- F. Number of Submittals Required:

1. Shop Drawings: Submit four (4) drawings for approval. Submit one CAD file and four (4) drawings when approved.
 2. Product Data: Submit the number of copies required in each section of the Specifications but in no instance less than four (4).
 3. Samples: Submit the number required in each section of Specifications but in no instance less than three (3). Submit applicable Product Data with Samples.
- G. If requested on roof repair projects Contractor shall submit letter from manufacturer of the existing roof system stating they are approved to install the Work and any warranty or certification on the existing roof will not be voided.
- H. Shop Drawings
1. Make all shop drawings accurately to a scale sufficiently large to show all pertinent roofing components. Contractor may use detail drawings enclosed in the project specification manual as the basis for their shop drawings.
 2. Shop drawings are to reflect the contractor's proposed construction parameters and the drawings are to be specific to this project. **Roofing manufacturers' standard detail drawings are not acceptable as shop drawings and will be rejected without review.**
 3. All reviewed comments of the consultant will be shown on the original submittal when it is returned to the contractor. The contractor shall make and distribute all copies required for his purposes.
 4. All drawings must include contractor's and manufacturer's approval prior to Consultant's review.

1.04 RESUBMITTALS

- A. Make resubmittals under procedures specified for initial submittals; identify changes made since previous submittal.
- B. Shop Drawings, Product Data:
1. Revise initial drawing or data and resubmit as specified for the initial submittal.
 2. Clearly, indicate any changes which have been made.
 3. When approved "as noted", correct and resubmit as specified for the initial Shop Drawings and Product Data.
- C. Samples: Submit new samples as specified for the initial submittal.

1.05 CHANGES

- A. Submit requests for all changes in writing using the Substitution Request Form obtained from the consultant.

B. Requests for Change Orders must be submitted via a “*Change Order Request*”. ***Do not proceed with any changes without written authorization.***

C. All substitutions are subject to Owners written approval.

1.06 SCHEDULE OF VALUES

A. Contractor shall submit a completed Schedule of Values for the work on AIA form G703, "Continuation Sheet".

B. As a minimum the following items shall be listed in the Schedule of Values. All items shall list labor and material costs separately.

1. Mobilization and set-up
2. Roof Removal and disposal
3. Asbestos materials removal and disposal (if applicable)
4. Roof insulation and insulation fasteners
5. Rough carpentry and fasteners
7. Roof membrane and base flashings (including roof membrane fasteners on single ply projects)
8. Roof related sheet metal
9. Roof drains/plumbing work
10. Bonds and Warranties
11. Miscellaneous Materials, Supplies, Costs
12. De-mobilization costs

1.07 REQUIRED SUBMITTALS

A. Submit job specific shop drawings for the following items (manufacturer's standard drawings will not be accepted):

1. Roof related sheet metal and other sheet metal (show dimensions, materials and fastening used)
2. Plumbing, electrical, and mechanical work (where applicable)
3. Flashing details where variances exist from the project drawings
4. Tapered insulation (show layout, drainage pattern and cross section for each area of tapered insulation)

B. Manufacturers' Literature (As Requested on a Per Project Basis)

1. Submit product literature on roof membrane and all pertinent accessories supplied by manufacturer.
2. Submit product literature on insulation (s) indicating R value.
3. Submit product literature on "walkway pads".
4. Submit product literature on all fasteners to be used on project.
5. Submit product literature on all caulking and sealants to be used on the project.

C. Samples

1. Submit samples as requested by the Owner or the Owner's representative.
- D. Material List
1. At the discretion of the Consultant, contractor may be allowed to submit a list of materials to be incorporated into the work in lieu of manufacturer's literature and information as outlined in item B, above. As a minimum the material list shall show the following information:
 - Name of each component and area of project where component will be installed
 - Description of intended use of each component
 - Product name (brand name)
 - Manufacturer
 - Product physical description including relevant information regarding the thickness, color, size, grade, etc. (as applicable)
 2. Material list shall be submitted in the format as shown in Attachment "B" to the roof membrane section of the specifications.
- E. Submit executed bonds.
- F. Submit completed Schedule of Values as described in 1.06.
- G. Submit valid certificate of insurance meeting the requirements of the General Conditions of the Contract.
- H. Submit documentation required related to the removal, handling and disposal of Asbestos Containing Materials (if applicable).

PART 2 – PRODUCTS: NOT USED

PART 3 – EXECUTION: NOT USED

END OF SECTION

Performance Agreement

Project Name/Identification: _____

Project Address: _____

Roof Areas: _____

Substantial Completion Date: _____

End of Performance Agreement Date: _____

CONFORMANCE STATEMENT: The above titled project has been completed in accordance with the requirements of the Contract.

For a 5-year period, from date of notice of substantial completion of the building, we will inspect and make emergency repairs to defects and leaks in the roof system within 24 hours of receipt of notice from Owner. As soon as weather permits, we will make permanent repairs and restore the affected areas to the standard of the Contract requirements. All this work will be done without additional cost to Owner, except if it is determined that such leaks and defects were caused by abuse, or by lightning, hurricane, tornado, or other unusual natural phenomena or failure of related work done by others.

Name of Roofing Contracting Firm: _____

Address: _____

Telephone: _____ Fax: _____

Email Address: _____

Roofing Contractor's Authorized Signature: _____

Roofing Contractor's Name (print or type): _____

Date: _____

Name of General Contracting Firm (if applicable): _____

Address: _____

Telephone: _____ Fax: _____

Email Address: _____

General Contractor's Authorized Signature: _____

General Contractor's Name(print or type): _____

Date: _____

ATTACHMENT A

SECTION 01 33 26

QUALITY CONTROL

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

- A. Contractor shall maintain on site quality control over products, services, site conditions, safety and workmanship to produce work of specified quality.
- B. Contractor shall arrange with Material Manufacturer(s) to provide qualified personnel to instruct the Contractor's Crew, Project Manager, Consultant(s), and any other parties designated by the Owner on the proper handling, installation, and maintenance of materials. Instruction shall be performed prior to beginning installation of roofing/waterproofing system or at immediate start of installation.

This item will be strictly enforced and is the responsibility of the Contractor.

- C. Contractor shall arrange with Material Manufacturer(s) to provide qualified personnel to observe field conditions and material installation when field work is in progress. The site visits by the Representative of the Materials Manufacturer shall be of sufficient length and/or frequency to assure that completed work qualifies for specific certifications. Manufacturer's representative shall submit written reports to the Owner or Consultant listing observations and recommendations.
- D. Contractor shall provide a complete set of Drawings, Shop Drawings, and Specifications at a designated location of the project at all time for the use of all parties.
- E. Owner reserves the right to retain the services of an independent representative to provide full-time or part-time monitoring of the work. Testing may be performed by the representative to determine any deficiencies in the work and/or confirm requirements of the Contract Documents.
- F. Cost of the Owner's Consultant will be borne by the Owner until the date stated in the Construction Contract for completion of work or as stipulated in the Contract documents. The cost of any monitoring/testing services required after this period of time due to Contractor-controlled non-performance shall be borne by the Contractor. Items such as weather, strike, material production delays, work of other trades, change in scope of work, etc. are not considered within control of the Contractor. Insufficient

crew size, inexperienced crew, delays in material ordering, application of materials/systems in violation of specified requirements, priority of other work, etc. are considered within the control of the Contractor.

- G. If full-time monitoring is selected, all of the work shall be performed in the presence of the Owners Consultant. Any work performed without said presence may be rendered unacceptable.
- H. Contractor shall be required to notify the Owner or Consultant a minimum twenty-four (24) hours prior to cancellation of any operations, weather conditions permitting.
- I. Work found to be in violation of the Contract Documents or Manufacturer's specifications, or not in conformance with acceptable work/performance standards, shall be subject to rejection including complete removal and replacement with new material at the Contractor's expense.
- J. If employed full-time the Owner's Consultant shall document installed quantities of those materials bid on a unit basis, as well as other materials. These quantities in consort with the Contractor's records will be used as a basis of payment.
- K. The Owner's Consultant, if independent, is not an agent of the Owner and, therefore cannot enter the Owner into any contractual arrangement with the Contractor.
- L. Maintain at least one (1) foreman/supervisor on the project site with full knowledge, expertise and authority to direct on site operations. An English speaking representative must be on site at all times.

1.02. Submittals

- A. Submit Quality Control Checklist #1 as required in paragraph 1.03 of this section.
- B. Submit Quality Control Checklist #2 as required in paragraph 1.03 of this section.
- C. Submit roof plan with completed work each day as required in paragraph 1.03 of this Section.

1.03. CONTRACTOR

- A. Roofing Contractor: Contractors are only those who have pre-qualified with Owner previously on the WeatherTech website.
- B. Roofing contractor shall designate a Quality Controller for the project to perform the following duties on behalf of the roof contracting firm:
 - 1. Use adequate number of skilled workmen who are thoroughly trained

and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work in this section.

2. Attending pre-construction roofing conference.
3. Prior to starting any roofing work submit *Quality Control Inspection Check List # 1 Pre-Construction Activities*, Attachment A and submit to WeatherTech.
4. Daily: Submit to WeatherTech.
 - a. When requested remove a roof sample (as requested by WeatherTech), complete *Quality Inspection Check List # 2 Attachment B – Single-ply Roof Systems* and forward sample to WeatherTech Consulting offices.
 - b. Supply roof plan with work completed and roof sample location.
5. Each day, inspecting the work in progress and performing tests as necessary to provide assurance that the work for each day is done as required by the Contract.

C. Variances:

1. Should Owner, Owner's representative, WeatherTech personnel, contractor (General Contractor if applicable), building code official indicate variances in contractor's work:
 - a. Immediately stopping work practices that might damage the roof system or that oppose the intent of the Contract.
 - b. Solicit direction for correction of defects and violations of Contract requirements. Owner, WeatherTech and/ or building code official must accept in writing the arrangements and corrections before they are carried out.
 - c. Delay the application of any surfacing materials in the affected area of work.
 - d. Do not build upon or tie into work that varies from the specification. Any such work is subject to rejection.
 - e. Immediately notify the primary membrane manufacturer of the variance and request his opinion concerning the roof system's acceptability and any required corrective action.
 - f. Notify the Owner, WeatherTech and building code official (if building code variance) of the primary membrane manufacturer's recommendation.
 - g. If the recommended corrective action is approved in writing by the Owner, WeatherTech and/or building official in writing then the contractor can proceed with the primary membrane manufacturer's corrective action.
 - h. If the primary membrane manufacturer does not recommend a corrective action, act upon the written decision of the Owner and WeatherTech.
 - i. Install water cut-offs and tie-ins to insure watertight roof and flashing systems.
 - j. Non-conforming work is subject to Owner's rejection.

- k. Remove and replace rejected work.
- D. Work may be audited at any time. Provide the Owner, WeatherTech, building code official and contractor (General Contractor if applicable), safe entry to all work areas and all the records and information requested during the audit.
- E. Pre-Construction Roofing Conference
 1. Upon receipt of submittals indicated as approved pursuant to Section 01 33 00 Section Submittals and applicable roofing section the Quality Controller for the roofing contractor (or General Contractor's representative) is required to coordinate with the Owner and WeatherTech the attendance of
 - a. Roofing Contractor
 - b. Owner
 - c. WeatherTech Consulting Group, Inc.
 - d. Roofing Manufacturer
 - e. Others as designated
 2. Quality Controller for the roofing contractor (or General Contractor's representative) is required to coordinate with Owner and WeatherTech the scheduling of a Pre-construction Roofing Conference with the designated participants a minimum two weeks prior to start of work.
 3. The WeatherTech Representative conducting the conference will:
 - a. Review Contract requirements, procedures, and coordination to obtain an understanding of requirements and responsibilities.
 - b. Discuss procedures and Drawings to execute the work, logistics, scheduling, and equipment to be used, on-site material handling, assignments, and storage procedures.
 - c. Walk participants through areas where work is to be performed.
- F. Notification to Start Work: Quality Controller for the roofing contractor (or General Contractor's representative) is required to notify the Owner Representative and WeatherTech Consulting Group, Inc. two weeks in advance of work start date. Confirm in writing.
- G. Meetings: Schedule meetings as requested by the Owner or WeatherTech according to contract Documents. Coordinate the attendance of requested participants.
- H. Punch List Inspection: Once all work is completed, schedule punch list inspection with the WeatherTech representative to review the completed work and determine all corrective actions necessary to meet the intent of the Contract.
- I. Close-out Audit Inspection
 1. Once all punch list items have been completed by the contractor, coordinate the attendance of:
 - a. Roofing Contractor.

- b. The Owner.
 - c. WeatherTech Consulting Group, Inc.
 - d. Roofing Manufacturer.
 - e. Others as designated.
- J. Contract Close-out
- 1. Contract closeout procedures shall be conducted in accordance with Section 01 78 00.

1.04 OWNER, CONSULTANT AND SITE MANAGER

- A. Owner has the final authority in all matters affecting the Work. Within the Scope of the Contract, the Consultant has the authority to enforce compliance with Drawings and Specifications. The Contractor will promptly comply with all instructions from the Consultant or his/her authorized representative.
- B. On all questions relating to quantities, the acceptability of material, equipment, or Work, the execution, progress or sequence of Work and the interpretation of Specification or drawings, the decision of the Consultant is final and binding and will be precedent to any payment under the Contract, unless otherwise ordered by Owner.
- C. Decision in Writing
Any and all decisions of the Consultant interpreting Specification or drawings will be in writing. Any purported "interpretation", which is not in writing will not be binding upon Owner and should not be relied upon by the Contractor.
- 1. Contractor is required to submit all questions or requests for interpretation on a *RFI Form* (Request for Information/ Interpretation). Consultant and/or Owner will supply the written response on submitted RFI Form within 48 hours unless the contractor is notified otherwise.
- D. The Work is subject to inspection and approval of the Consultant.
- 1. The Contractor will notify the Consultant forty-eight (48) hours before any special inspection is required. Unless otherwise authorized, Work will be done only in the presence of the Consultant or his/her authorized representative. Any Work done without proper inspection will be subject to rejection.
 - 2. The Consultant and any authorized representative will at all times have access to the Work during its construction, as well as the project site.
 - 3. The Contractor will provide every reasonable facility for ascertaining that the materials and workmanship are in accordance with this Specification.
 - 4. Inspection of the Work will not relieve the Contractor of the obligation to fulfill all conditions of the Contract.

5. Acceptance of Work by material manufacturer representatives will be for warranty purposes only. Acceptance of the Work by the Consultant will constitute grounds for contractual payments.
- E. Permit Inspection
1. The Contractor will arrange for code compliance inspections by all agencies issuing permits for the Work. The Work will not continue beyond mandatory inspection points without clearance from controlling agencies. Each agency involved will be notified in accordance with the codes they enforce or in accordance with their standard operating procedures. No extensions of time will be granted for delays occasioned by such inspections except where, through no fault of the Contractor, the inspection is delayed more than one (1) day beyond normal response time after proper notification has been given.
 2. It will be the Contractor's responsibility to see that any required inspection record card is signed off before proceeding with the next phase of the Work and completely signed off on completion of the Work
- F. The Consultant has the following authority:
1. To interpret the Bid and Contract Documents.
 2. To make changes in the location of features of the Work where no change in cost is involved.
 3. To approve substitutes for material and equipment specified by proprietary names when such material and equipment meet the Contract Documents.
 4. To approve shop drawings and submittals.
 5. To issue stop Work orders when necessary to enforce the provisions of the Contract.
 6. To make determinations of each Working day to be charged against the Contract time.
 7. To receive all correspondence and other Documents from the Contractor.
 8. To approve progress and final payments under the Contract, including the provisions for withholding funds.

1.05 SUBSTITUTIONS

- A. Description
1. Whenever possible throughout the Contract Documents, the minimum acceptable quality workmanship and materials has been defined by manufacturer's name and catalog number, referenced to recognize industry and government standards, or description of required attributes and performance
 2. To ensure that the specified products are furnished and installed in accordance with design intent, procedures have been established for advance submittal design data and for their review by the Consultant.

3. Make all submittals required by the Contract Documents and revise and resubmit as necessary to establish compliance with the specified requirements.

B. Substitutions:

Substitutions will not be accepted for consideration unless the specified products are unavailable. These Contract Documents have been prepared on the basis that only certain materials and manufacturers will be permitted to furnish products for this project. The intent is not to limit competition but to ensure utilization of products used on previous projects of a similar nature and found acceptable.

C. Products

1. In the event substitutions become necessary, the Contractor will submit a *Substitution Request Form* to the Consultant in triplicate form along with "cut-sheets" and other complete manufacturer's literature on both the original product specified and the proposed product substitute.
2. All substitutions required to complete the project will be "equal to" the original products specified. The submittal data required above will clearly identify the physical and performance characteristics of both the original and proposed product for substitution.
3. Both Owner's Representative and the Consultant will make the final decision of acceptability of the proposed product substitution.
4. Any substitute products, which are used on this project without prior approval from the Consultant, will be cause for rejection of the Work. Any such Work incorporating non-approved substitutions will be removed and replaced with the original specified or other prior approved materials by the Contractor without additional costs to Owner.

D. Manufacturer's Literature

1. Where contents of submitted literature from manufacturers includes data not pertinent to the submittal, clearly indicate which portion of the contents is being submitted for review.
2. Complete submittal package including all pertinent manufacturer literature to coincide with the previously submitted Owner "Materials List & Description".

PART 2 – PRODUCTS

Not Used.

PART 3 – EXECUTION

3.01 FIELD QUALITY CONTROL

A. Auditing:

1. Work may be audited at any time by WeatherTech or Owner. Provide the auditors safe entry to work areas, and records and information requested.
 2. The presence of the auditors is for Owner's purposes. Information furnished or not furnished by the auditors does not relieve the Roofing Contractor of responsibility for the work.
- B. Contractor and WeatherTech shall perform any test deemed necessary to assure the roof system installation is acceptable.
1. Variances: Follow procedures in paragraph 1.02 of this Section.
- C. If more samples are necessary because the original samples fail to meet Contract requirements, the Contractor must pay the cost of additional sampling, repair, and testing.
- D. Acceptance of Completed Work
1. Acceptance of completed work will be based on its conformance to the Contract Document requirements. Non-conforming work is subject to rejection. Quantities and tolerances stated herein apply, unless specifically amended by the Roofing Manufacturer on "*Roofing Manufacturer's Certification*" (Attachment A of roof section) in the roofing section of these specifications and accepted by Owner.

3.02 CLEANING

- A. Progress Cleaning
1. All stored materials and equipment shall be maintained in an orderly manner allowing maximum access, not impeding drainage or traffic, and providing the required protection of materials.
 2. Accumulation of construction debris, scraps, and other items is not permitted and must be removed daily.
 3. Contractor shall provide adequate storage for all items awaiting removal from the job site in accordance fire protection and environmental requirements.
- B. Site
1. Contractor shall conduct daily inspection of work areas for the purpose of removal of construction debris, scraps, and other items. All such items shall be removed to the disposal or storage place designated daily.
 2. Contractor shall conduct weekly (more often if necessary) inspections of all stored materials for the purpose of compliance with the requirements of paragraph 1.07 of the applicable roofing section.
 3. The job site shall be maintained in a neat and orderly condition at all time during the construction period.
- C. Facade

1. Contractor shall inspect the work area of facade and completely clean all scraps, droppings, debris, and waste materials from metal sills, brick, glass, etc.
2. As required, the work areas shall be cleaned prior to installation of materials.

D. Final Cleaning

1. Final cleaning shall be conducted as outlined in Section 01 78 00 and noted below.
2. Execute cleaning prior to Close-out Audit.
3. Timing: Final cleaning shall be scheduled with Owner or WeatherTech.
4. Prior to completion of the Work, remove all tools, surplus materials, equipment, debris, and waste materials from job site.
5. Site: Unless otherwise specifically directed by the Owner or WeatherTech, all areas of the building affected by the Work shall be broom cleaned. All debris accumulated as the result of cleaning shall be removed from the site.
6. Clean all work areas. Clean interior exterior surfaces exposed to view; remove stains and foreign substances. Clean equipment as required.
7. Remove waste and surplus materials, rubbish, and construction facilities from the Site.
8. Clean all drains and drainage systems. Test all drains to insure unrestricted flow into drains and drainage systems.

END OF SECTION 01 33 26/ QUALITY CONTROL

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Quality Inspection Check List #1 Pre-Construction Activities

PROJECT/STORE # _____ DIVISION: _____ DATE: _____

LOCATION: _____

CONTRACTOR QUALITY CONTROLLER: _____

COMPANY: _____

CIRCLE: Y-Yes N-No N/A-Not Applicable			
Y	N	N/A	Specifications and drawings read, understood, and are available on site for review.
Y	N	N/A	All permits for the work to be performed in the contract documents are available on site for review.
Y	N	N/A	All project submittals to start work have been stamped "Approved" or Approved as Noted" and are available on site for review.
Y	N	N/A	All certifications or approvals received for decking and roofing materials.
Y	N	N/A	Material supplier's literature and application specifications are available on site for information and review.
Y	N	N/A	Safety precautions, regulations and MSDSs have been reviewed, in compliance, and are on site during application.
Y	N	N/A	Amount and type of materials required by specifications (and verified by on-site inspection of product labels) are at the job site, and are visually suitable for application.
Y	N	N/A	Materials are stored appropriately covered, off ground, and on pallets.
Y	N	N/A	All roofing equipment is in good working order and functioning properly.
Y	N	N/A	Edge nailers, curbs, drains, and penetrations have been installed before starting roofing.
Y	N	N/A	Drainage patterns proper for roof membrane installation.
Y	N	N/A	Tapered insulation layout plans are site understood and are available on site.
Y	N	N/A	The Contractor Sample Package to process the Quality Inspection Check List #2 Roof Membrane Sampling
Y	N	N/A	If fastener pullout tests are specified, verify they have been conducted and the results have been approved by the specifier.
EXPLAIN AND COMMENT "NO" ENTRIES			

Contractors Signature: _____
Print Name: _____

Attachment A

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Quality Inspection Check List #2 Roof Membrane Sampling

THIS FORM SINGLE-PLY ROOFS ONLY

Project/Store #: _____ Division: _____ Date: _____

Location: _____

Company: _____ Samples Taken By: _____

of Samples Taken & Shipped: _____ Sample Id's: _____

Signature: _____ Date: _____

1. Samples are to be removed every 50 squares of roofing from field seam locations on the roof as required by the Owner's Roof Consultant.
 - a. Do not remove samples within 18 inches of walls, curbs, valleys, tie-ins, or penetrations.
2. Cut the sample as accurately as possible, using a metal template and a knife. The samples are to be cut 6 inches by 6 inches square.
3. Immediately place each sample into the two polyethylene bags. Seal each bag separately (using indelible ink or typing). Submit Roof Plan with sample(s) location accurately dimensioned. ENCLOSE THIS FORM WITH SAMPLE.
4. Repair the sampled area immediately after taking the sample.
5. Fill the hole left by the sample removal unit it is level with the rest of the membrane. Use layers of insulation loose laid. Cap the sample area with a 12 x 12 inch matching membrane and heat weld into place.
6. Caulk perimeter edges of the patch with an approved lap sealant.
7. Send wrapped samples to WeatherTech Consulting Group, Inc., for testing. Send the roof samples Next Day delivery to the address on the UPS forms.

WeatherTech Consulting Group, Inc.
7747 Auburn Road
Utica, MI 48317
Phone: 586-731-3095

9. Verbal results will be available within 24 hrs. and written results within 48 hrs. after receipt of the samples.

ATTACHMENT B

SECTION 01 35 01

SAFETY

PART 1 - GENERAL

1.01 CONTRACTOR SAFETY PLAN

- A. Contractor shall maintain written Safety Plan enforced at the Site at all times.
- B. Contractor shall maintain a copy of contractor's Safety Plan at the Site at all times.
- C. Contractor shall conduct, document and submit proof of Safety Meeting prior to start of Work.

1.02 SAFETY AND HEALTH PROCEDURES

- A. Public Safety
 - 1. Safety Orders
 - a. The Contractor will have at the Work site, copies or suitable extracts of: Construction Safety Orders and general industrial safety orders issued by the federal, state or municipality. Contractor will comply with the provisions of these and all other applicable laws, ordinances and regulations.
 - b. Payment for performing all Work necessary to provide safety measures will be included in the prices Bid for other items of Work.
 - 2. Special Hazardous Substances and Processes
 - a. Materials that contain hazardous substances or mixtures may be required on the Work. A Material Safety Data Sheet (MSDS) as described in the federal, state and municipal codes will be requested by the Contractor from the manufacturer of any hazardous material used and provided to Consultant per submittals.
 - b. Material usage will be accomplished with strict adherence to federal, state municipal including and/or project requirements and all manufacturer's warnings and application instructions listed on the Material Safety Data Sheet and on the product container label.
 - c. The Contractor will notify the Consultant if a specified product cannot be used under safe conditions.
 - 3. The Contractor will restrict public access by installing opaque fencing, such as a green screen, around the setup or staging areas.
- B. General
 - 1. These Construction Documents are to be governed, at all times, by applicable provisions of the State and Federal Law(s) including but not limited to the latest amendments of the following:
 - a. William-Steiger Occupational Safety and Health Act of 1970, Public Law 91-596 as amended in 2004.
 - b. Part 1910-Occupational Safety and Health Standards, Chapter XVII of Title 29, Code of Federal Regulations.
 - c. Part 1518-Safety and Health Regulations for Constructions, Chapter XIII of Title 29, Code of Federal Regulations.
 - 2. This program will become a part of the Contract Documents and the Contract between Owner's Representative and Contractor and the Contractor and all Subcontractors, as though fully written herein.

3. For the purposes of this Contract, neither Owner's Representative nor their Consultant and Consultants' Observers are to be considered experts in safety. All construction safety issues are the sole responsibility of the Contractor.
- C. Safety Provisions
1. Precaution will be exercised at all times for the protection of persons, including employees and property. The safety provisions of applicable laws and building and construction codes will be guarded or implemented in accordance with the applicable safety provisions.
 2. All equipment used in construction or to be installed will meet the requirements of all applicable codes. Equipment will have all required protection devices such as belt and shaft guards, heat protection, insulation, clearances warnings, etc. For equipment, which is to be installed, such devices will be indicated on shop drawings and reviewed by the Consultant.
- D. Necessary controls will be provided to prevent pollution of the air by odors or particulate matter. The location and operation of heating equipment will be such that no hazard is created and objectionable odors do not enter the building.
- E. Reasonable precautions must be exercised to prevent vandalism and to safeguard the public at the existing buildings. Equipment will not be left unprotected and materials will be carefully stacked. The set-up or staging area must be controlled at all times so that no unauthorized person can access the Contractor's equipment or materials, day or night.

PART 2 – PRODUCTS

NOT USED

PART 3 - EXECUTION

- 3.01 Contractor shall conduct job site Safety Meetings as detailed in Contractor's Safety Plan.
- 3.02 Contractor shall conduct job site Safety Inspections as detailed in Contractor's Safety Plan.
- 3.03 Contractor shall conduct, document and submit proof of Safety Meetings and Inspections during performance of Work.

END OF SECTION 01 35 01/SAFETY

SECTION 01 42 16

TERMS AND DEFINITIONS

1.01 GENERAL

- A. The following terms and definitions apply to the content of these Contract Documents to describe the Work as designed and intended by WeatherTech Consulting Group, Inc. (WT).
- B. The definitions used in Contract Documents (Contract, General Conditions, Supplemental Conditions and all other documents) provided by the Owner shall apply when interpreting all Contract Documents.
- C. All conflicts or clarifications in definitions and terms used by or between WT and Owner provided documents as interpreted by the contractor shall be forwarded via Request for Information/Interpretation (RFI) to WT for a response.

1.02 TERMS AND DEFINITIONS

Addendum: Addenda as written or graphic instruments issued prior to the execution of the Contract which may modify or interpret the Bidding Documents, including Specifications and Drawings, by additions, deletions, clarification, revisions or corrections will become part of the Contract Documents when the Construction Contract is executed.

Bid: The offer or Proposal of the Bidder submitted on the prescribed form setting forth the price of the Work.

Bidder: Any individual, firm, partnership, corporation, or combination, thereof, submitting a Bid for the work, acting directly through a duly authorized representative.

Bidding Documents: Bidding Documents include all documentation listed under Bidding Requirement in the Table of Contents of the Project Manual; and, the proposed Contract Documents including any addenda issued prior to receipt of the bids.

Bid Guarantee: The cash, certified check, or Bidder's surety bond accompanying the Bid as a guaranty that the Bidder will enter into a Contract with Owner for the performance of the Work.

Bond: Bid, performance or payment bond or other instrument of security..

Change Order: A written order to the Contractor signed by Owner directing an addition, deletion, or revision in the Work, or an adjustment in the Contract price or the Contract time issued after the effective date of the Contract.

Code: The International Building Code including all other model building codes and regulatory requirements as legislated to apply for Work to be completed at the Project location. Including but not limited to all local, state and federal codes and requirements.

Consultant: The term "Consultant" or "Roofing Consultant" used throughout these documents refers to WeatherTech Consulting Group, Inc. and/or their duly authorized representatives. The Consultant is the professional who designed the project or performed other services for Owner on the Project, WeatherTech Consulting Group, Inc. It is expressly understood that Consultant does not practice architecture and/or structural engineering.

Contract: The Contract Documents form the Contract for Construction. The Contract represents the entire and integrated agreement between the Owner and Contractor and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a Modification.

Contract Documents: Including, but not limited to; the Contract, Addenda (which pertains to the Contract Document), invitation to Bids, instruction to the Bidders; Bid (including documentation submitted prior to the Notice of Award), when attached as an exhibit to the Contract, the bonds, the General Conditions, permits from other agencies, the Supplemental Conditions, Drawings, General and Technical Specifications and all Contract Modifications (Change Orders, Unit Pricing) issued after the execution of the Contract.

Contractor: The term "Contractor" in these documents refers to the organization, individual, partnership, corporation, joint venture, or other legal entity who has a direct contract with the Owner to perform the Work under the Contract. "Contractor" shall employ and have direct contact with all Subcontractors.

Contract Price: The total amount of money for which the Contract is being awarded.

Contract Unit Price: The Contractor's original Bid for a single unit of an item of Work in the Proposal.

Drawings: The drawings are the graphic and pictorial portions of the Contract Documents showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules and diagrams.

Furnish: The term "Furnish" means purchase and/or fabricate and deliver to the work area at the site or other location when so directed

General Conditions: The conditions under which the Work is performed in addition to and in conjunction with the Contract.

Install: The term "Install" means build in, mount in position, connect or apply specified objects, and, where applicable, adjust and start in operation.

Modification: Includes Change Orders and Supplemental Agreements. A modification may only be issued after the effective date of the Contract.

Notice of Award: The written notice by Owner to the successful Bidder stating that upon compliance by it with the required conditions, Owner will execute the Contract.

Notice to Proceed: A written notice given by Owner to the Contractor fixing the date on which the Contract time will start.

Owner: The legal entity for whom the Work is being performed, Troy School District Inc.

Person: Any individual, firm, association, partnership, corporation, trust, joint venture, or other legal entity.

Product: The term "Product" when herein (after) referred to includes materials, systems, and equipment.

Prompt: The briefest interval of the time required for a considered reply, including time required for approval by a governing body.

Provide: The term "Provide" means furnished and install, complete in place and ready for operation and use.

Reference Specification: Those bulletins, standards, rules, methods of analysis, or test, codes and Specification of material manufacturers, American Society for Testing and Materials and accepted industry standards in effect and published at the time of Notice of Award, unless specifically referred to be edition, volume, or date.

Subcontractor: The term "Sub-Contractor" in these documents refers to the organization or organizations who is (are) employed by the "Contractor" to perform specialty tasks. The "Contractor" shall be responsible for any work, actions, and fabrication of the "Sub-Contractor". "Sub-Contractors" must be approved by the Roofing Consultant.

Substantial Completion: means that the Work has reached such a point in quantity and quality of construction that, except for de minimis matters, the Contractor has performed its Work in accordance with the Contract so that Owner has the full use and benefit of the premises no leaks in the building to which the Work was done for or in connection with Owner's business.

Supplemental Conditions: Any provision, which supplement or modify the General Project Conditions.

Specifications: The specifications are that portion of the Contract Documents consisting of the written requirements for materials, equipment, systems, standards and workmanship for the Work, and performance of related services.

State: The state in which the Project is located within the United States.

Subcontractor: An individual, firm or corporation having a direct Contract with the Contractor or with any other Subcontractor for the performance of a part of the Work.

Work: The term Work means the construction and services required by the Contract Documents, whether completed or partially completed, and includes all other labor, materials, equipment and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The Work may constitute the whole or part of the Project.

Working Day: A day in which actual Work takes place.

1.03 MULTIPLE TERM DEFINITIONS

- A. The terms "as indicated" or "as designated" or "as shown" mean specifically included and shown on Drawings.
- B. The terms "as required", "as applicable" or "as necessary" mean not specifically indicated as to location and/or extent, but to be determined in field during course of work.

END OF SECTION 01 42 16/ TERMS & DEFINITIONS

SECTION 01 50 00

CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 – GENERAL

1.01 UTILITIES

- A. Owner may provide utility services required for construction operations limited to electrical and water.
- B. Existing utilities may be used during construction only after coordination with Owner and receipt of Owner's expressed written approval.
- C. Contractor shall be responsible for all required hook-ups of his equipment (Owner or Contractor-supplied electric).

1.02 VENTILATION

- A. Provide facilities as required to maintain specific storage conditions as described within this Specification.
- B. Provide adequate ventilation of enclosed areas to prevent the accumulation of fumes, vapors, and gases including condensation.
- C. Existing facilities may not be used for storage during construction.

1.03 SANITARY FACILITIES

- A. Existing facilities may not be used; contractor to provide.
- B. Facilities shall be located in areas as designated by the Owner.

1.04 CONSTRUCTION AIDS

- A. Contractor shall provide stairs/ladders, roof access points to be approved by Owner at all times during construction.
- B. Construction of stairs and installation of ladders shall be approved by OSHA and the Owner's Safety Officer. Unsafe conditions or failure to comply shall be sufficient grounds to restrict access.
- C. Remove ladders on a daily basis or completely restrict access. Completely restrict access of stairs on a daily basis.

- D. Contractor shall not access roof from interior of the building, i.e. roof hatch. Access must be from exterior of the building.

1.05 INTERIOR PROTECTION PROCEDURES & PRACTICES

- A. General Considerations
 - 1. Interior Protection Contractor shall coordinate and schedule his operations to minimize the impact of the work on the operations of the facility.
 - 2. Control of dust & debris shall be accomplished utilizing a combination of materials, methods and personnel.
 - 3. The contractor shall coordinate the interior protection schedule with the roofing contractor and/or Owner to insure that interior protection is completed prior to the start of the roofing project.
 - 4. Contractor shall, to the best of their ability, conduct all work and operations so as not to:
 - a. Impede or endanger ingress and egress into production, storage, and/or office areas: or,
 - b. Cause, permit or allow falling or blowing particulate, material, dust and/or debris which might endanger the safety of persons, equipment or product located in the areas designated as "Interior Protected".
 - c. The contractor shall adjust his operations and work plan as required minimizing interference with the operations of the facility.
- B. Installer Requirements
 - 1. Personnel must be familiar with all OSHA regulations pertaining to the safe operation of the equipment used in the installation of debris containment systems.
 - 2. Installers will use appropriate safety glasses, hard hats, hearing protection, foot protection, and breathing apparatus (where required) while adhering to guidelines relating to fall protection.
 - 3. Installers will also agree to successfully complete Customer mandated Safety Course (where required) prior to start of project.
 - 4. Dress code will be in keeping with the customer's requirements.
- C. Supplemental Debris Netting (Where Applicable)
 - 1. In cases where pieces of debris over 1 lb. may fall during normal roofing operations, debris netting must be installed below the debris containment barrier system prior to the start of work. The extent of these requirements (if any) will be discussed during the pre-bid meeting.

1.06 INTERIOR PROTECTION CONTRACTOR SAFETY REQUIREMENTS

- A. Interior Protection Contractor shall familiarize themselves, and execute the work in strict accordance with, local, state and federal regulations that govern work of this type.
- B. The Interior Protection Contractor shall take all reasonable precautions for the safety of, and shall provide all reasonable protection to prevent damage injury or loss to, all employees on the project and all other persons who may be affected thereby.

PART 2 – MATERIALS

2.01 GENERAL

- A. Protective materials shall withstand abrasion and water penetration and shall withhold dust and other foreign matter.
- B. Existing work shall be protected by one or more of the following as directed by the Owner or the Owner's consultant; masonite, kraft paper, 6 mil reinforced fire retardant polyethylene film with taped joints and/or protective construction nets.
- C. Contractor shall only utilize exterior grade, fire-retardant, plywood in the fabrication of temporary controls.

2.04 DEBRIS CONTAINMENT SYSTEM MATERIALS

- A. Debris containment barrier sheet shall be reinforced, fire retardant treated, polyethylene based clear sheet providing a total nominal thickness of 6 mils. Product should be reinforced with a minimum of a 900 denier scrim laid in a diagonal trapezoidal pattern spaced 3/8" apart with an additional machine direction scrim every 9" across the width to create longitudinal strength and stability.
 - 1. Barrier Sheet Material Requirements
 - Fire Rated Polyethylene
 - Reinforced
 - 6 MIL minimum thickness
 - 1-¼" point load tear strength of 30 lbs., minimum.
 - Melting point of 180°
 - Perm rating of .13
 - Flame spread index of 0
 - Smoke developed value of 20, maximum

- B. Seam and joint tape shall be of compatible materials. Tape shall not leave a residue on existing building or equipment components when removed. Tape shall be 4" wide, minimum.
- C. Existing wall connectors and overhead supports shall be used whenever possible. If no suitable wall connection or overhead supports are available, wall or ceiling anchors shall be installed. All support anchors shall provide a minimum load capability of 50 lbs. Care must be taken to control dust created while installing these anchors.
 - 1. Wherever feasible, temporary anchors for installation of debris containment barrier system shall be clamp-on or compression type devices to avoid penetration of existing building components with anchor screws or other fasteners.
 - 2. Where existing building components must be penetrated by temporary anchor fasteners, care should be taken to locate penetration point in the least visible area possible.

PART 3 – EXECUTION

3.01 EXECUTION

- A. Install and maintain all necessary coverings, boarding, and partitioning to effectively protect existing work, finishes, and windows.
- B. Install and maintain protective bridging, scaffolding, and netting.
- C. All materials brought to or removed from the work shall be covered to prevent intrusion of dust and debris.
- D. The work area and adjacent areas shall be washed with water to remove construction dust.
- E. Interior access points shall be covered at all times during construction. Stair wells shall be kept clean and unobstructed at all times during construction. Fire egress openings shall be maintained free of any obstructions and shall not be closed, bordered, or temporarily immobilized during the entire work.
- F. Any damage caused as a result of improper protection shall be repaired and restored to pre-construction condition by Contractor at no additional cost to Owner.
- G. All protection materials shall be removed at completion of construction to the satisfaction of the Owner or Consultant.
- H. All temporary protection shall be coordinated with Owner or Consultant.

3.02 SITE PROTECTION

- A. Damage caused by the contractor or his subcontractors to the new and/or existing work shall be repaired by the Contractor, at no additional cost to the Owner.
- B. Contractor shall not store materials or debris on site or roof top in excess of allowable loads. It is cautioned that the existing roof deck construction is not intended for the storage of materials or debris.
- C. Demolition, preparation, and new work requirements shall be coordinated with Owner or Consultant.
- D. Contractor shall be held solely responsible for all demolition, temporary protection, and new work.
- E. Protect all underside deck equipment, conduits, and ducts from damage during construction.

3.03 DEBRIS CONTAINMENT SYSTEM INSTALLATION

- A. Barrier Sheet Installation - General
 - 1. All barrier sheets shall be installed using the largest sheet size possible
 - 2. All debris containment barriers shall be securely fastened and supported in a manner to positively contain light dust & debris and prevent displacement and/or collapse.
 - 3. Site line and aesthetic issues shall be discussed with Owner's Representative before installation
 - 4. Minimum height requirements must meet Owner's needs and allow normal activities below the barrier sheet.
 - 5. Barrier must be installed with least amount of penetrations possible.
 - 6. Where practical, seams shall be cut to install sheets with least amount of seams and to allow positioning of seams to happen in non-critical areas.
- B. Vertical and Horizontal Surface Connections
 - 1. Suspended cover installed along walls shall be secured every 10', or closer spacing.
 - 2. Each tie off anchor point or installed anchor device shall be able to support a minimum load of 50 lbs.
 - 3. Barrier sheet hung from horizontal surfaces shall have vertical supports every 10' in both directions.

4. Existing structural members or wall and ceiling mounted equipment or conduit may be utilized where capable of supporting a 30 lb., minimum point load
- C. Seams & Penetrations
1. All side and end laps in barrier sheets shall be joined with a 360 degree "roll seam" and shall be secured/pinned and taped together to create one continuous unit.
 2. All seams are to be taped with a 6" wide tape centered over the seam.
 3. All penetrations are to be sealed by running the barrier sheet as close as possible to the penetration and then turning the sheet up onto the surface of the penetration 2".
 4. Penetrations shall be taped to barrier sheet with a 4" wide tape, minimum.
 5. Individual pieces of seam tape shall be used to seal all openings and voids around penetrations and at terminations in the barrier system.
- D. Termination of Barrier at Protection Area Boundaries
1. Where interior protection is ended at the boundary areas above a protected interior space of a building, away from walls or other typical boundaries, the debris containment system shall be extended beyond the boundary of the protected area 6', minimum or as otherwise directed or indicated on the drawings.

3.04 DEBRIS CONTAINMENT SYSTEM REMOVAL

- A. General Requirements
1. Prior to removal of suspended barrier sheet any exposed product or equipment below shall be covered with 4 mil polyethylene to provide additional protection from dust & debris.
 2. Care must be taken to completely identify and contain all dust & debris in any suspended barrier sheet protection. Remove all dust and debris from barrier sheets prior to removal of the barrier system from the building.
 3. Timing of removal of containment system shall be as directed by the Owner's Representative and shall not disrupt or interfere with normal plant operations.
 4. Use of HEPA vacuum equipment and HEPA air filtration systems shall be utilized where possible and practical to reduce and/or eliminate the amount of dust released into the interior environment during barrier removal operations.
- B. Anchor and Support System Removal

1. All tape and anchor systems used for the installation of the barrier sheet to the existing structure shall be removed so as to cause minimal disruption or damage to existing building surfaces/components, equipment and personnel below.
 2. All existing surfaces shall be restored to their original condition at the end of the removal process.
- C. Disposal
1. All removed debris and barrier system materials shall be removed from the job site and disposed of in a legal manner.
 2. Owner/owner representative trash containers or dumpsters shall not be used to dispose debris containment system materials.

END OF SECTION 01 50 00/CONST. FACILITIES AND TEMPORARY CONTROLS

SECTION 01 74 23

FINAL CLEANING

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. General requirements for cleaning throughout performance of Work under Contract:
 - 1. Progress cleaning
 - 2. Site cleaning
 - 3. Façade cleaning
 - 4. Drainage testing
 - 5. Final and Close-out cleaning

1.02 GENERAL REQUIREMENTS

- A. Contractor shall maintain a clean site for all products, services, site conditions, safety and workmanship.
- B. If, in the opinion of the Contractor, any Work is indicated on drawings or specified in such a manner that cannot be properly cleaned, the Contractor will notify the Consultant and/or the Owner before proceeding that portion of the work.
- C. Work may be audited at any time. Provide the Owner, WeatherTech, building code official and contractor (General Contractor if applicable), safe entry to all work areas and all the records and information requested during the audit.
- D. The acceptability of cleaning and the interpretation of Specification or drawings, the decision of the Consultant is final and binding unless otherwise ordered by Owner.
- E. Contract Close-out: Contract closeout procedures relating to cleaning shall be conducted in accordance with Section 01 77 00.
 - 1. Prior to final acceptance, Contractor will restore all areas affected by Work to original state of cleanliness and repair all damage done to the premises, including the grounds, by contractor's employees, subcontractors and equipment.
- F. Materials left on site after acceptance of work shall be deemed to have been abandoned by Contractor. Title of abandoned materials shall thereupon revert to the Owner. The Owner shall hold Contractor liable for cost incurred in removal and disposal of those materials.
- G. At completion of demolition operations debris and salvage materials shall be removed from the premises.
- H. Leave premises broom clean and orderly to the satisfaction of the Owner

PART 2 – PRODUCTS - Not Used

PART 3 – EXECUTION

3.01 GENERAL

- A. Contractor will remove markings from finished surfaces. In areas where finished surfaces are soiled by any source, caused by Work of this section, consult manufacturer of surfaces for cleaning advice and conform to instructions.

3.02 PROGRESS CLEANING

- A. All stored materials and equipment shall be maintained in an orderly manner allowing maximum access, not impeding drainage or traffic, and providing the required protection of materials.
- B. Accumulation of construction debris, scraps, and other items is not permitted and must be removed daily.
- C. Contractor shall provide adequate storage for all items awaiting removal from the job site in accordance fire protection and environmental requirements.

3.03. SITE

- A. Contractor shall conduct daily inspection of work areas for the purpose of removal of construction debris, scraps, and other items. All such items shall be removed to the disposal or storage place designated daily.
- B. Contractor shall conduct weekly (more often if necessary) inspections of all stored materials for the purpose of compliance with the requirements of the "*Materials Storage and Handling*" paragraph of the applicable roofing section.
- C. The job site shall be maintained in a neat and orderly condition at all time during the construction period.

3.04. FACADE

- A. Contractor shall inspect the work area of facade and completely clean all scraps, droppings, debris, and waste materials from metal sills, brick, glass, etc.
- B. As required, the work areas shall be cleaned prior to installation of materials.

3.05 DRAINAGE CLEANING

- A. Clean all drains and drainage systems. Test all drains to insure unrestricted flow into drains and drainage systems.

3.06. FINAL CLEANING

- A. Execute cleaning prior to Close-out Audit.
- B. Timing: Final cleaning inspection shall be scheduled with Owner or WeatherTech.
- C. Prior to completion of the Work, remove all tools, surplus materials, equipment, debris, and waste materials from job site.
- D. Site: Unless otherwise specifically directed by the Owner or WeatherTech, all areas of the building affected by the Work shall be broom cleaned. All debris accumulated as the result of cleaning shall be removed from the site.
- E. Clean all work areas. Clean interior exterior surfaces exposed to view; remove stains and foreign substances. Clean equipment as required.
- F. Remove waste and surplus materials, rubbish, and construction facilities from the Site.

END OF SECTION 01 74 23/ FINAL CLEANING

SECTION 01 77 00

CLOSEOUT

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Substantial Completion.
- B. Punch List procedures
- C. Closeout documentation and procedures.

1.02 SUBSTANTIAL COMPLETION

- A. Preliminary procedures: Before requesting a Punch List Inspection of Substantial Completion, Contractor shall submit a *Certificate of Substantial Completion* online at Project Website using the Submittals tab at www.wtcg.net and complete the following: List all exceptions in the Certificate.
 - 1. Submit the Performance Agreement (Roofing Section Attachment C), final certifications and similar documents.
 - 2. Submit record drawings, record specifications, record product data, record samples, miscellaneous record submittals, record photographs, maintenance manuals and similar record information.
 - 3. Deliver tools, spare parts, extra stock and similar items.
 - 4. Complete startup testing of systems and instruction of the operation and maintenance personnel.
 - 5. Discontinue and remove temporary facilities from the site, along with mockups, construction tools and similar items.
 - 6. Complete final cleanup requirements, including removal of asphalt drippage for all exposed building finishes and touch-up painting of pre-finished sheet metal components.
 - 7. Touch up and otherwise repair and restore marred, exposed finishes.

1.03 PUNCH LIST

- A. Inspection Procedures: On receipt of *Certificate of Substantial Completion* the Consultant will either proceed with the Punch List Inspection or advise the Contractor of unfilled requirements that need to be completed based on the project records and *Certificate of Substantial Completion*. The Consultant will prepare the Punch List Report following the inspection to alert the Contractor if there is construction that must be completed or corrected before the certificate will be issued.
 - 1. The Punch List Report will indicate itemized list of Work that needs to be completed or correct:
 - a. Report will contain a Description of the Punch List item and the Action required to rectify the non-compliant Item.
 - b. Contractor shall complete all Punch List Report items and photo document all Punch List work.
 - c. Upon completion of the Punch List work the Contractor shall upload a signed copy of the Punch List Report and photos at www.wtcg.net on the Project Website using the Submittals tab.
 - 2. In the event Items on the Punch List Report require an additional inspection by the Consultant to Close Out the Contract:
 - a. All costs for additional punch list inspections by the Consultant will be deducted from the Contractor's retainage.

3. Results of the completed inspection will form the basis of requirements for final acceptance.

1.04 CLOSE-OUT

- A. Preliminary Procedures: Before requesting certification of final acceptance and payment, complete the following. List exceptions in the request.
 1. Provide a signed Punch List Report and if applicable Close Out Audit Inspection Report confirming all punch list inspection items to be completed are finished.
 2. Submit the final payment request with releases, lien waivers, and supporting documentation not previously submitted and accepted. Include insurance certificates for products and completed operations where required.
 3. Submit any required warranty/certification documentation.
 4. Submit an updated final statement, accounting for final additional changes to the Contract Sum.
 5. If required due to Punch List noncompliance, submit a certified copy of the Consultant's Close-Out Audit inspection list of items to be completed or corrected, endorsed and dated by the Consultant and Contractor. The certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance and shall be endorsed and dated by the Consultant.
- B. Maintenance Instructions: Contractor and primary roofing materials manufacturer are to meet with Owner's maintenance personnel to provide instruction in proper maintenance. Include a detailed review and provide the following items:
 1. Maintenance manuals.
 2. Semi-annual inspection checklists.
 3. Emergency repair procedures.
 4. Contractor and manufacturer contacts.

1.05 COMPLETION

- A. Upon completion of Close-out Contractor shall submit a *Certificate of Completion* using the online Project Website www.wtcg.net and using the Submittal tab complete the *Certificate of Completion*

PART 2 – PRODUCTS

NOT USED

PART 3 – EXECUTION

3.01 CLOSEOUT PROCEDURES

- A. Operation and Maintenance Instructions: Contractor shall provide instructions for regular maintenance of installed systems. Provide instruction by manufacturer's representatives if installers are not experienced in operation and maintenance procedures. Include a detailed review of the following items:
 1. Maintenance manuals.
 2. Record documents.
 3. Warranties.
- B. Warranties
 1. Provide warranty in a form approved by the Owner and provide all manufacturers extended warranties to the Owner.

END OF SECTION 01 77 00/ CLOSE OUT

SECTION 02 41 19

SELECTIVE DEMOLITION

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Reroof Projects: Removal of existing roofing system, insulation, base flashings, designated metal counter flashing and removal of materials from site.
- B. Refer to Cover Page Sheet “CP” for determination of asbestos abatement requirements. Removal and disposal of ACRM (Asbestos Containing Roofing Materials) and ACM (Asbestos Containing Construction Materials) in the roof membrane or flashings shall be according to all applicable federal, state and local standards, including but not limited to EPA and OSHA standards.
 - 1. Refer to asbestos report attached to this section for information on testing of roof samples (See Section 02 41 19 - *Appendix A*).
- D. Refer to individual roof plan sheets for schedule on special provisions as necessary for special interior protection requirements.

1.02 RELATED SECTIONS

- A. Section 06 10 00 – Rough Carpentry
- B. Applicable Roofing Specification Section: Reference Cover Page Sheet for Schedule of roof specification.

1.03 PROTECTION OF WORK AND BUILDING

- A. The Contractor shall be responsible for the protection of the building interior and its contents from moisture, debris, and/or fume/odor penetration during all phases/operations of the Work. Contractor shall also be responsible for the protection of Owner’s merchandise, furnishings and equipment by covering all items that may be affected during the Work with suitable protection such as, but not limited to plastic tarp. Provide protection of merchandise, equipment and personnel during operations creating dust/debris from roof tear-off and new roof installation, etc.

1.04 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the Work of this Section and conform to requirements in Section 01 33 26.

1.05 REGULATORY REQUIREMENTS

- A. Conform to applicable Code for demolition of roofing, safety of adjacent structures, dust control and disposal.
- B. Notify Owner of affected mechanical or electrical disconnects 24 hours before starting work. All disconnect and reconnection shall be performed by licensed contractor for equipment type.
 - 1. All satellite disconnects and reconnects to be done and paid for by the Owner.
 - 2. All refrigerant piping stands requiring temporary supports or movement shall be completed by a licensed refrigerant contractor.
- C. Do not close or obstruct roadways, sidewalks, and hydrants without prior authorization.
- D. Conform to applicable regulatory procedures when hazardous or contaminated materials are present.
- E. As necessary comply with provisions of local, state and national regulatory requirements for the identification, removal and disposal of Asbestos Containing Building Materials (ACBM) and Asbestos Containing Roofing Materials (ACRM) including:
 - 1. Environmental Protection Agency (EPA):
 - a. EPA National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR, Part 61, Subpart M.
 - 2. Occupational Safety and Health Administration (OSHA)
 - a. OSHA Standard for Occupational Exposure to Asbestos in construction work, 29CFR1926.1101.
 - 3. Department of Transportation (DOT).
 - a. Hazardous Material Rules.

1.06 SCHEDULING

- A. Schedule work to coincide with new roofing work. All existing roofing removed shall be replaced with new roofing in watertight condition each day. All decking or building components exposed by demolition shall be put in a watertight condition each day.

- B. Provide a schedule describing demolition removal procedures, staging and schedule.

1.07 SUBMITTALS

- A. Procedure for staging of equipment required for debris removal. Provide analysis of staging equipment and erection in accordance with OSHA requirements.
- B. Provide work schedule according to Section 01 32 00.

1.08 EXISTING ROOF AND BUILDING CONDITIONS

- A. The Owner assumes no responsibility for actual condition of the structure.
- B. The Contractor may make test cuts to review the existing conditions, coordinate with the Owner. It is expressly understood that the Owner will not be responsible for interpretations or conclusions drawn by the Contractor.
- C. Conditions existing at the time of inspection for bidding purposes will be maintained by Owner insofar as practicable. However, variations may occur by Owner's operations.
- D. The Contractor is responsible for having taken steps reasonably necessary to ascertain the conditions that can affect the Work or its cost. Any failure by the Contractor to have done so does not relieve the Contractor from responsibility for successfully performing the Work without additional expense to the Owner.

1.09 EXISTING CONDITIONS, OCCUPANCY

- A. The Contractor is reminded that the Work is to be performed in an operational environment. The continuation of the Owner's operation and its employees and the public's safety are of top priority. The Contractor shall consult with the Owner in order to coordinate procedures for the work.
- B. Consider all aspects of the Work, and how it will affect Owner's operations. Control noise, dust, and work force at all times, particularly during critical hours established by the Owner.
- C. Premises will be occupied during entire period of construction. Cooperate with the Owner to minimize conflict and to facilitate Owner's operation.
- D. Schedule work on site, both demolition and installations, in the sequence and within hours established by the Owner.

PART 2 – PRODUCTS

Not Used

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine conditions at the job site where work of this Section is to be performed to insure proper arrangement and fit of the Work. Start of Work implies acceptance of job site conditions.
- B. Examine work that is intended to remain as part of the completed project and report unsatisfactory conditions to the Owner or Consultant prior to commencement of Work.
- C. Examine the areas and conditions under which work of this Section will be performed. Contractor to notify Owner or Consultant prior to performing corrective work. Correct conditions detrimental to timely and proper completion of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.02 PREPARATION

- A. Provide, erect and maintain temporary barriers and security devices.
- B. Protect existing materials finishes and structures which are not to be demolished.
- C. Review NESHAP inspection survey or other available reports to determine the applicable regulations governing the demolition, removal and disposal of all ACBM and ACRM.
 - 1. Refer to asbestos report attached to project manual.

3.03 DEMOLITION AND REMOVAL

- A. General
 - 1. Prior to start of demolition; carefully study the Drawing and these Specifications.
 - 2. In company with the Owner or Consultant, visit the site and verify the extent of demolition to be performed under this Contract.
- B. Conduct demolition to minimize interference with surrounding facilities and occupants.

- C. Cease operations immediately if building interior, building operations or adjacent structures might pose to be a structural, operational safety danger. Notify Owner or Consultant. Do not resume operations until directed.
- D. Conduct operations with minimum interference to accesses. Maintain egress and access at all times.
- E. The Contractor shall maintain a dust free operation when removing debris from roofs either by chutes, hoist crane or other approved method.
- F. The Contractor shall, upon completion of the demolition phase of the Work, provide the Consultant and Owner copies of all dump receipts.
- G. Carefully check the demolition drawings and existing conditions where alterations and changes are to be made and include labor and material costs herein. Protect parts of the existing building not designed for demolition and removal, adjacent property and items removed and intended for reuse.
- H. The present building shall be kept watertight, both from the roof and from openings in the roof.
- I. Mechanical services shall be kept in operation in all areas used by the Owner. Required material and labor for barricades, bulkheads, temporary enclosures, protection of openings, shutoffs, disconnects, caps and other items as necessary shall be included herein. Where temporary wood construction and scaffoldings are installed inside the building, the wood shall be fire-retarded treated and adequate fire pails and fire extinguishers shall be provided and maintained. Rubbish shall not be allowed to accumulate. The Owner may require rubbish removal at time agreed to between Owner and Contractor.
- J. As the greater part of the work to be performed under this Contract will be within and adjacent to the occupied areas of the building, work shall be done so as to cause as little inconvenience as possible in the operation of the building. Suppress noise and dust to the maximum possible extent and wet down debris as required to accomplish this. Construct dust-tight partitions where necessary so as to separate noise, dirt and dust producing operations from adjacent occupied areas. Avoid tracking of dirt and dust into areas of the existing building not affected by this operation. Dust and clean areas affected by dust as directed by Owner at no additional cost. Provide adequate protection from dust for elevator shafts, duct shafts, other vertical openings, motors, switchgear, convactor enclosures and other elements of building systems to remain.
- K. Work in the existing building or any other work which might affect the operation of the existing building shall be performed at the convenience of

the Owner. When execution of the work requires an interruption of services, approval of Owner must be obtained so that "out of service" time is restricted to periods convenient to normal activities.

- L. Exercise caution in the process of the work. If damage occurs to the building elements or contents due to the negligence of the Contractor, the Contractor shall be held responsible to rectify or reimburse the Owner for damages.
- M. No cutting shall impair the strength of the construction. Should any trade request extensive cutting, consult with the Architect before performing work. Do not perform such cutting until approval has been obtained.
- N. The size and location of items requiring an opening, chase or other provisions to receive work of the various trades shall be given by the trades requiring them in ample time to avoid undue cutting of any work to be installed. This provision shall not relieve the Contractor from keeping informed as to required openings and chases.
- O. Note that, in order to remove and/or install mechanical, electrical and other work specified or required, roofs to remain may have to be cut and then repaired.
- P. Demolition and removal work shall be performed in strict accordance with regulations of codes and ordinances of local, State and Federal authorities, as applicable.

3.04. CLEANUP

- A. At completion of each day's work operations, clean surrounding streets and walks of any accumulation of debris, materials and dirt resultant from demolition operations. Do not allow debris or salvage materials to accumulate on site. At completion of demolition operations and prior to final payment, debris and salvage materials shall be removed from the premises. Leave premises broom clean and orderly to the satisfaction of the Owner.
- B. Materials left on site after acceptance of work shall be deemed to have been abandoned by Contractor. Title of abandoned materials shall thereupon revert to the Owner. The Owner shall hold Contractor liable for cost incurred in removal and disposal of those materials.

END OF SECTION 02 41 19/ SELECTIVE DEMOLITION

**SECTION 22 14 26.13
ROOF DRAINS**

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Furnish new clamping rings, domes, and bolts for all existing drains where existing drain components are broken, deteriorated or otherwise un-useable. Replace broken or damaged drain bowl assemblies on a unit price basis.
- B. Install new roof drains, drain lines and tie-ins to existing plumbing where noted on the drawings or on a unit price basis as authorized by change order.

1.02 RELATED SECTIONS

- A. Section 07 53 00 - Mechanically Attached Thermoplastic Single Ply Roofing

1.03 SUBMITTALS

- A. As provided in Section 01 33 00.

1.04 QUALITY ASSURANCE

- A. As provided in Section 01 33 26.

1.05 REGULATORY REQUIREMENTS

- A. All roof drains and plumbing work shall be installed by a licensed plumber in accordance with all applicable local and State building codes and regulations.

1.06 SEQUENCING AND SCHEDULING

- A. Proceed with permanent plumbing installations concurrently with membrane roofing.

PART 2 - PRODUCTS

2.01 ROOF DRAINS

- A. Replacement roof drains to be equivalent to the Z-100 Dura coated main roof drain, with a cast iron body and combination membrane flashing clamp/gravel guard and low silhouette aluminum dome, as manufactured by

Zurn or approved equal. Drains to have no hub option for use with no hub piping. Install 18 gage galvanized steel roof sump receiver at all drains.

- B. Replacement roof drains and roof drain parts shall match existing construction with regard to type, size and configuration to the extent possible.
- C. Replacement roof drains shall match existing size where replaced on a unit price basis.
- D. New roof drains shall be 4" diameter drains unless otherwise noted on the drawings.

2.02 DRAIN LINES

- A. Schedule 40 PVC piping, tie-ins to existing plumbing and accessories for new drain lines shall meet the requirements of all applicable State and Local building codes. Where required by code cast iron drain lines shall be used in lieu of PVC piping.

2.03 PIPE INSULATION

- A. All horizontal piping shall have 1/2" fiberglass insulation with integral vapor barrier with Zeston fittings or approved equal.

2.04 EXPANSION JOINT COUPLINGS

- A. All new roof drains shall be provided with flexible, no-hub, expansion joint couplings between the drain outlets and the new drain lines.

PART THREE EXECUTION

3.01 INSTALLATION - DRAINS

- A. Install interior protection below the area where drains are to be installed or replaced prior to proceeding with the demolition work.
- B. Cut appropriate opening if necessary and install steel roof drain sump pans on existing decking and fasten to deck 6" o.c. with #14 self-tapping sheet metal screws.
- C. Provide 1.5" X 1.5" X .25" angle iron support framing under the new drain sumps. Securely fasten new angle iron supports to existing roof framing members.
- D. Install new roof drain body in new sump per the manufacturer's recommendations.

3.02 INSTALLATION - DRAIN PIPING

- A. Install all no hub piping, sized as required for new drains as is appropriate, securely supported from building structure on 10 foot centers or less, if necessary, for proper installation. Minimum pitch to be 1/8" per foot.
- B. Properly support all fittings and joints such that they do not bend or warp.
- C. All horizontal piping shall have 1/2" fiberglass insulation with integral vapor retarder to prevent condensation. Tape all joints.

3.03. QUALITY CONTROL

- A. The building is to remain absolutely watertight during installation of new drains. The deck and new membrane is not to be cut if any ponded water exists on roof surface.
- B. Be careful not to damage any interior or exterior finishes, including floors, ceilings, and walls.
- C. Restore all surfaces damaged by the operations of this section to like new condition, at no additional cost to the owner.

3.04 VERIFICATION

- A. Upon completion of the installation of each drain and attached piping, visually inspect and verify that all components are complete and properly installed. Verify that all new drains and piping are securely attached to the building structure, are in working order, and are absolutely watertight.

3.05 CLEANUP

- A. At completion of all plumbing work, remove all construction debris and equipment from job site. Contractor is to ensure that all building components (ceilings, lights, etc.) are undamaged and properly in place.

END OF SECTION 22 14 26.13/ROOF DRAINS

ADDENDUM 1

**BID NO. 9815
2015 ROOF RESTORATION PROJECT
DISTRICTWIDE
TROY SCHOOL DISTRICT**

ADDENDUM NO.:	<u>1</u>	DATE:	<u>11/05/15</u>
PROJECT IDENTIFICATION			
PROJECT NAME:	BID NO. 9815 2015 ROOF RESTORATION PROJECT DISTRICTWIDE TROY SCHOOL DISTRICT		
SITE ADDRESS:	16 Schools and Facilities located in Troy, MI Ref. Section 00 02 00 Summary of Work for exact locations		
ADDENDUM DESCRIPTION			
The following is a summary of changes to the drawings and Specifications that shall be considered as a part of your Bid. Receipt of this Addendum shall be acknowledged in the Bid submission. This Addendum consists of two pages.			
SUMMARY OF ADDENDUM:			
Item	Description		
1	Add/Revise: Sections: 000300 Bid Form; 000301 Unit Price Form; 000800 Hazardous Materials; 010600 Regulatory Requirements; 012003 Changes to Work; 012900 Payment Procedures.		
2	Revise: Drawings: CP, A1.1, A1.2, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16		
3	Add: Drawings Photo Pages A17, A18, A19, A21, A22, A23, A24, A25, A26, A27, A28.1, A28.2, A29, A30, A31, A32.		
DESIGN TEAM LEAD:			
	COMPANY:	WeatherTech Consulting Group, Inc.	
	NAME:	Geof Garabedian	
	ADDRESS:	7747 Auburn Road	
		Utica, MI 48317	
	TELEPHONE:	(586) 731-3095	FAX: (586) 731-6863
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ADDENDUM 2

**BID NO. 9815
2015 ROOF RESTORATION PROJECT
DISTRICTWIDE
TROY SCHOOL DISTRICT**

ADDENDUM NO.:	<u>2</u>	DATE:	<u>11/12/15</u>
PROJECT IDENTIFICATION			
PROJECT NAME:	BID NO. 9815 2015 ROOF RESTORATION PROJECT DISTRICTWIDE TROY SCHOOL DISTRICT		
SITE ADDRESS:	DISTRICTWIDE 16 Schools and Facilities located in Troy, MI		
ADDENDUM DESCRIPTION			
The following is a summary of changes to the drawings and Specifications that shall be considered as a part of your Bid. Receipt of this Addendum shall be acknowledged in the Bid submission. This Addendum consists of one page and Section 00 01 13.			
SUMMARY OF ADDENDUM:			
Item	Description		
1	Clarification: Section: 00 01 13 Instructions to Bidders – TSD as provided to all attendees and reviewed at Pre-Bid meeting replaces existing Section. The new Section is posted to website.		
2	Clarification: As noted in Pre-Bid meeting bids to be delivered at: TSD Administration Building 4400 Livernois Rd, Troy, MI 48098 by 2:00 pm Wednesday, November 18, 2015.		
3	City and State permits not required for project.		
4	Addendum 1 is only 1 page.		
DESIGN TEAM LEAD:			
	COMPANY:	WeatherTech Consulting Group, Inc.	
	NAME:	Geof Garabedian	
	ADDRESS:	7747 Auburn Road	
		Utica, MI 48317	
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