

Wayne Smith, Public Works, Director.

wayne-smith@peachcounty.net

Public Works Department & Purchasing Office

213 Persons Street Fort Valley, Georgia 31030
Phone 478-825-2535

Daniel Garcia Flores, Purchasing Manager

daniel-garciaflores@peachcounty.net

RFB 21-001

Peach County Health Department Roof Project

The Peach County Board of Commissioners will be accepting sealed bids pertaining to Peach County Health Department Roof Project in Peach County, GA.

Closing date for Sealed Bids responding to Request for Bid (RFB) No. 21-001 shall be April 1, 2021 @ 2:00 p.m. Bids will be opened in public without discussion on April 1, 2021 @ 2:30 p.m. at the Peach County Board of Commissioner's Office, 213 Persons Street, Fort Valley, GA 31030. Bid amounts will not be released until the Board of Commissioners has awarded the project to the winning contractor.

A Pre-bid meeting will be held March 16, 2021 @ 10:00 a.m. at the Peach County Health Department located at 406 E. CHURCH STREET, FORT VALLEY, GA. 31030. Attendance at the pre-bid meeting is not required to submit a bid but is highly recommended.

The work to be performed under this Contract shall consist of furnishing all labor, materials, tools, equipment, and incidental and performing all work required to perform the construction of the project titled Peach County Health Department Roof Project.

The complete RFB package will be available by contacting Daniel Garcia at (478) 827-3150 or by email at daniel-garciaflores@peachcounty.net

All bids must be accompanied by a Bid Bond in an amount not less than five percent (5%) of the Base Bid. Performance Bond and Payment Bond, each in the amount of one hundred percent (100%) of the contract amount, will be required of the successful bidder. Bond must be written by an acceptable Surety Company licensed to do business in the State of Georgia and listed with the Department of the Treasury.

Bidders must be licensed Utility Contractor in the State of Georgia. See Instructions to Bidders for additional bidding requirements.

Peach County reserves the right to reject all bids, to waive informalities, to re-advertise and/or to award any bid that is in the best interest of Peach County.

Mail or deliver Sealed Bids to:
Daniel Garcia Flores
Peach County Board of Commissioners
ATTN: RFB # 21-001
213 Persons Street
Fort Valley, GA 31030

TECHNICAL SPECIFICATIONS

PEACH COUNTY HEALTH DEPARTMENT ROOF PROJECT

406 E. CHURCH STREET
FORT VALLEY, GEORGIA. 31030



ISSUE DATE:

03/04/2021

ISSUED:

FOR CONSTRUCTION

EDIFICE PROJECT:

20PCGJ07RF241

SECTION 00 0102
PROJECT DIRECTORY

PROJECT:

Peach County Health Department Roof Project
406 E. Church Street
Fort Valley, Georgia. 31030
RFB 21-001

OWNER:

Peach County Board of Commissioners
205 West Church Street, Suite 204
Fort Valley, GA. 31030

CONSULTANT:

Edifice Consulting, Inc.
P.O. Box 1060
Byron, Georgia 31008

Email: jody@edifice.biz

END OF SECTION

SECTION 00 0110
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PROJECT DIAGRAMS

Refer to Section 00 0115 - List Of Diagram Sheets.

ATTACHMENTS

Attachment A-New Vendor Packet
Attachment B-Peach County Construction Contract
Attachment C-Structural Assessment Letter

END OF SECTION

SECTION 00 0115

LIST OF DIAGRAM SHEETS

KEY PLAN DIAGRAMS

KEY PLAN 1 – OVERALL ROOF PLAN

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DIAGRAMS

DETAIL 1 – RAKE TRIM

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END OF SECTION

SECTION 00 2116
INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.01 INTENT

- A. The Peach County Board of Commissioners intends to award a contract to a qualified Contractor to perform the work of this project. The County seeks one or more companies who have extensive experience in the field of exterior wall restoration. The award will be evaluated on specific criteria. Note that all criteria may not exist on all projects.

1. Criteria	Weighted Value
a. Contractor History:	15%
b. Schedule:	20%
c. Similar Work:	20%
d. Past Work History With Peach County:	5%
e. Peach County Business Location:	3%
f. References:	17%
g. Warranty:	20%

- B. Following the opening of bids, the following procedure will be used to determine the successful bidder:
1. The County will first eliminate from consideration all bids that are not “responsive” as such term is defined as “a bid or proposal that conforms in all material respects to the requirements set forth in the invitation for bids,” and will further eliminate any bid as “not responsible” to which the County does not assign an aggregate score of at least 78 under weighted evaluation factors set forth below.
 2. The County will deem all remaining bids to be responsive and responsible.

1.02 BID REQUIREMENTS

- A. All bidders responding to this RFB must submit a completed detailed bid.
- B. Pre-Bid Meeting:
1. Refer to the requirements of the Owners RFB for this project.
- C. Submission of Bids:
1. Bids shall be opened as stated in the Owners RFB for this project.

- D. Addendum and Supplement to Request - If it becomes necessary to revise any part of the project RFB, or if additional data are necessary to enable an exact interpretation of provisions of the project RFB, an addendum will be issued. It is the responsibility of the party submitting the Bid to ensure that they have received all addenda prior to submitting a bid. All addenda must be initialed and attached to the bid. Failure to include addenda may be ample cause for rejection of the bid as non-responsive. Addendum will be published on the Peach County web site www.peachcounty.net.
- E. Required Copies - Each firm shall submit one (1) original, two (2) copies, and one USB "flash" storage drive with an Adobe compatible "PDF" file of the entire bid response to the County's Purchasing Department as indicated in the project RFB. The original bid shall be clearly marked "ORIGINAL", in blue ink and shall contain all original signatures in blue ink. Copies of the original bid shall be clearly marked "COPY", in red ink. All original and copies of bids shall be permanently bound. Bids submitted using spring loaded clips are not considered permanently bound. Bids not bound in a permanent method or in any way that individual sheets can be not connected to adjacent sheets will be considered Non-Responsive and will not be considered.
- F. Late Bids - Late bids will be returned to party submitting the bid unopened if the RFB number, acceptance date, and Contractor's return address is shown on the container.
- G. Rights of County - The County reserves the right to accept or reject all or any part of any bid.
- H. Miscellaneous Requirements - The County will not be responsible for any expenses incurred by the Contractor in preparing and submitting a bid. All bids shall provide a straightforward, concise delineation of the Contractor's capabilities to satisfy the requirements of this RFB. Emphasis should be on completeness and clarity of content.
- I. Peach County Public works reserves the right to waive any informalities, to reject any and all bids, to evaluate bids, to accept portions of any bids and to accept any bid, which in its opinion, may be in the best interest of the County.
- J. The County reserves the right to add to or delete from the contract after the contract has been awarded.

1.03 QUESTIONS

- A. All questions will be submitted in writing, and shall be directed to:
 - 1. Attention: Daniel Garcia Flores, Purchasing Manager, Peach County Board of Commissioners, 213 Persons Street, Fort Valley, GA. 31030.
daniel-garciaflores@peachcounty.net
- B. Inquires pertaining to this request for bid must give firm or contractor name, project number, title, and acceptance date. Questions will be answered in writing and will be distributed to all firms who receive the bid and attend the mandatory pre- bid meeting, provided that all questions are received at least five (5) days in advance of the bid acceptance date. If the bidder feels a conflict exists between what is considered good construction practice and these specifications, he/she shall state in writing all objections five days prior to bid closing date.
- C. The county will recognize only communications which are in writing and signed. The County shall not be responsible for oral interpretations given by any County employee, representative, or others. The issuance of an addendum is the only official method whereby interpretation, clarification, or additional information can be given.

1.04 COMPETENCY OF THE BIDDER

- A. Contractor is experienced, as determined by Peach County, as one who has specialized in the installation of work similar to that required for this project
- B. The bidding contractor must have been in business for 7 years, performing work of similar size, scope and complexity and submit proof of this in the submittal package, with no less than 3 relative examples.
- C. The bidding contractor must have an Experience Modification Rating of less than 0.9 and submit proof of this with their bid.
- D. Peach County may make such investigations deemed necessary to determine the ability of the contractor to perform the work and ensure there is no conflict of interest as it relates to the project. The contractor shall furnish to the County any additional information and financial data for the purpose as the County may request. The data may include a detailed and up-to-date list of plant equipment and materials which contractor proposes to use, indicating which portions they already possesses and a detailed description of the method and program or work to be done.

1.05 DISQUALIFICATION OF BIDDERS

- A. Any one or more of the following causes may be considered sufficient for the disqualification of a Bidder and the rejection of his/her bid:
 - 1. Evidence of collusion among Bidders;
 - 2. Lack of responsibility as revealed by either financial, experience or equipment statements, as submitted;
 - 3. Lack of expertise as shown by past work, and judged from the standpoint of workmanship and performance history;
 - 4. Uncompleted work under other contracts which, in the judgment of the Owner, might hinder or prevent the prompt completion of additional work if awarded; or
 - 5. Being in arrears on existing contracts, in litigation with an Owner, or having defaulted on a previous contract.

1.06 ACCEPTANCE AND AWARD

- A. All bids shall remain valid for a period of sixty (60) days following the bid opening.
- B. Upon acceptance of the winning bid by the Peach County Board of Commissioners, a contract will be negotiated and executed between the winning contractor and Peach County. No work shall commence until the contract has been signed and executed, all required forms have been completed and submitted, and a Notice to Proceed (NTP) issued by the County. A draft copy of the agreement is attached to this RFB (See Exhibit B)
- C. A Purchase Order will be issued with the NTP. The contractor shall be paid upon submission of invoices. The invoices must conform to the prices stipulated herein for articles delivered and accepted. Invoices must show Purchase Order number. Invoices shall be submitted to:
 - 1. Attention: Wayne Smith, Public Works Director, Peach County Public Works Dept., 410 Old Macon Rd., Fort Valley, GA. 31030.

- D. No delivery of products or services shall become due or be accepted until a purchase order has been issued by Peach County.

1.07 START AND COMPLETION DATE

- A. Work shall begin within ten (10) days from the award of this contract, or as agreed upon by the parties.
- B. All work as required in these specifications and drawings shall be completed within sixty (60) days of the start date, or as agreed upon by the parties.
- C. The Contractor is responsible for supplying trained workers in proper numbers and for scheduling and laying out his/her work, so that it will be started and completed in a professional manner within the time period indicated on his/her Bid Form.

END OF SECTION

SECTION 00 4100

BID FORM

To: Peach County Board of Commissioners.
Attention: Daniel Garcia Flores
Purchasing Manager
213 Persons Street
Fort Valley, GA. 31030

Project Name: Peach County Health Department Roof Project

Vendor Name: _____

Owner RFB#: RFB 21-001

Bids must meet the requirements of Owner provide RFB for this project, in addition to the requirements of the Technical Specifications, and Project Diagrams.

Bid: Having carefully examined the Project Manual entitled Peach County Health Department Roof Project and the Bid Documents and Addendum (a), as well as the Site and conditions affecting the Work, bidder hereby offers to furnish all services, labor, materials, and equipment called for by them for the entire Work, in accordance with the aforesaid documents, for the sum of:

_____ Dollars

Alphanumeric Price Quote (i.e. Nine Thousand Two Hundred Fifty Dollars)

(\$ _____)

Numeric Price Quote (i.e. \$9,250.00)

The sum listed on this page is hereinafter called the Bid. The Bid shall be the amount of the Contract Sum executed between the Owner and the Contractor.

Peach County Health Department Roof Project
Peach County Public Works Department
Edifice #20PCG07RF241

ALTERNATES

In accordance with specification section 01 2300, "Alternates":

Alternate #1: Amount to be added to be Base Bid to provide additional insulation at new metal roof system.

\$ _____ DOLLARS

(\$ _____)

Alternate #2: Amount to be added to be Base Bid to provide new windows at clerestory.

\$ _____ DOLLARS

(\$ _____)

Bidder Certification:

Certification under Oath. Under oath I certify that I am a principal or other representative of the bidder, and that I am authorized by it to execute the foregoing bid on its behalf; and further, that I am a principal person of the bidder with management responsibility for the construction for the bidder, and as such I am personally knowledgeable of all its pertinent matters. I further certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same services, materials, labor, supplies, or equipment and is in all respects fair and without collusion or fraud. Bidder and its principals understand that collusive proposing is a violation of state and federal law and can result in fines, prison sentences, and civil damage awards. Bidder agrees to abide by all conditions of this bid.

BY: _____
Authorized Signature (BLUE INK)

Printed Name Title

The bidder hereby acknowledges receipt of the following addenda:

Addendum No. _____ Dated. _____

Addendum No. _____ Dated. _____

Addendum No. _____ Dated. _____

Sworn to and subscribed before me this _____ Day of , 20____ .

Notary Public

My commission expires: _____ (SEAL)

NOTE: THE NOTARY SEAL MUST BE APPLIED UNDER GEORGIA LAW, WHETHER OR NOT THE LAW OF THE STATE WHERE EXECUTED PERMITS OTHERWISE.

END OF SECTION

SECTION 00 7200
GENERAL CONDITIONS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Refer to the requirements of Division 00, Instructions to Bidders, New Vendor Packet, and Owner provided General Conditions.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 00 7300
SUPPLEMENTARY CONDITIONS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract including the Owner's RFB, and other Division 01-48 Specification Sections, and drawing diagrams, apply to this Section.

1.02 INTENT AND INTERPRETATION OF THE CONTRACT DOCUMENTS

- A. The intent of these specifications is to describe the materials and methods of construction required for the performance of the work.
- B. Where discrepancies exist in the contract documents, the more stringent requirement shall apply. Refer to contract documents for appropriate procedure to obtain clarifications.

1.03 DEFINITIONS

- A. The Owner, the Contractor and the Owner's Representative shall be indicated as such throughout these documents.
- B. The term "Contractor" is defined in the General Conditions.
- C. The term "Owner" is defined in the General Conditions.
- D. The term "Owner's Representative", or "Consultant" is Edifice Consulting Inc., Byron, GA
- E. The "Contract" is defined in the General Conditions.
- F. The term "Contract Documents" refers to the written construction contract or bid response, Contract, General Conditions, any required bonds, specific conditions of the contract, project Specifications, project Drawings, contract Change Orders, Owner accepted unit prices, and Owner accepted alternates.
- G. The term "Defective Work" refers to materials or products that do not meet the specific requirements of the Contract Documents including their installation and performance.
- H. The term "Project" is the entire body of work identified by the Contract Documents.
- I. The term "Project Manual" identifies all written Contract Documents provided by the Owner and Consultant to be used by the contractor to perform the Work of this Project.
- J. The term "Specifications" identifies the portion of the Contract Documents that identify, in writing, the standards of quality and performance for the products, materials, systems, and workmanship required to meet the Contract requirements for the Work of this project.
- K. The "Work" is defined in the General Conditions.

1.04 VERIFICATION OF DIMENSIONS AND ELEVATIONS

- A. Dimensions and elevations indicated on the drawings in reference to existing structures or utilities are the best available data obtainable but are not guaranteed by the Owner's Representative and the Owner's Representative will not be responsible for their accuracy.
- B. Before proposing on any work dependent upon the data involved, the Contractor shall field check and verify all dimensions, grades, lines, levels or other conditions of limitations at the site to avoid construction errors.
- C. If any work is performed by the Contractor or any of his/her sub-contractors prior to adequate verification or applicable data, any resulting extra cost for adjustment of work as required to conform to existing limitations, shall be assumed by the Contractor without reimbursement or compensation by the Owner.

1.05 RESPONSIBILITY FOR MEASUREMENTS AND QUANTITIES

- A. The bidding Contractor shall be solely responsible for all accuracy of all measurements and for estimating the material quantities required to satisfy these specifications.

1.06 PROTECTION

- A. The Contractor shall use every available precaution to provide for the safety of property Owner, visitors to the site, and all connected with the work under the specification.
- B. Existing facilities shall remain operating during the period of construction. All access roadways must remain open to traffic unless otherwise permitted.
- C. In those areas where materials will be raised to work areas above finish grade, a protective covering shall be placed from the base of the wall extending up and over the top edge of the roof, or above the work area. This coverage shall be adequate to ensure that exterior walls and adjacent surfaces do not become stained or soiled during Work operations. Protect surfaces at finished grade in similar manner.
- D. Barricades shall be erected to fence off all construction areas from operations personnel.

1.07 HOUSEKEEPING

- A. Keep materials neat and orderly.
- B. Remove scrap, waste and debris from project area.

1.08 CONDITION OF SITE

- A. The bidders shall visit the site before submitting their bids and determine the field conditions affecting their work. In considering the bids, the Owner will assume that the bidders are aware of all items, pertinent to their work and have made allowance for same in their bids.

1.09 INSPECTION

- A. Where the drawings or specifications require the inspection and approval of any work in progress by the Owner's Representative, the Contractor shall give that Representative ample notice to allow for scheduling the inspection, which shall be made promptly to avoid delay of work. If work has progressed without the required inspections or approval by the Representative, it shall be uncovered for inspection at the Contractor's expense.
- B. Uncovering of work not originally inspected, or uncovering questioned work may be ordered by the Owner's Representative and it shall be done by the Contractor. If examination proves such work to be incorrectly done or not done in accordance with the plans and specifications, the Contractor shall bear all cost of the reexamination. If the work is proven correctly installed, all such expense shall be borne by the Owner.
- C. The Contractor shall notify building Owner, in writing of any defects in the substrate, and work shall not proceed until defects have been corrected.
- D. Do not install new materials until all unsatisfactory conditions are corrected. Beginning work constitutes acceptance of conditions.
- E. Check projections and substrates for inadequate anchorage, foreign material, moisture, or unevenness that would prevent quality and execution of new Work.
- F. Start of work by the Contractor shall imply approval of substrates and site conditions; and no claim in this respect will be considered valid in case of failure of the new components within the guarantee period.
- G. Noncompliance with the terms of this specification and ensuing contract can result in either the cancellation of the contract, or complete replacement of the defective areas at the Contractor's expense. In the event of cancellation, the Owner will not be obligated to compensate the Contractor for any work undertaken in a defective manner.
- H. Damages caused by water infiltration resulting from the failure of the Contractor to secure each day's work in a weather tight manner, will be corrected at the Contractor's expense. Included as damages will be all labor costs incurred by the Owner as a result of such water infiltration.
- I. The Owner will require the Owner's Representative to examine the work in progress, as well as upon completion, in order to ascertain the extent to which the materials and procedures conform to the requirements of these specifications and to the published instructions of the Manufacturer.
- J. The authorized Owner's Representative shall be responsible for:
 - 1. Keeping the Owner informed on a periodic basis as to the progress and quality of the work;
 - 2. Calling to the attention of the Contractor those matters he/she considers to be in violation of the contract requirements;
 - 3. Reporting to the Owner any failure or refusal of the Contractor to correct unacceptable practices;

4. Conducting preliminary and subsequent job-site meetings with the Contractor's official job representative;
 5. Rendering any other inspection services which the Owner may designate; and
 6. Certifying, after completion of the work, the extent to which the Contractor has complied with these specifications as well as to the published instructions of the Manufacturing Company.
- K. The presence and activities of the Owner's Representative shall in no way relieve the Contractor of his/her contractual responsibilities.

1.10 SAFETY PRECAUTIONS

- A. All Owners' safety rules shall be adhered to in the execution of this work. Adequate protection shall be provided, to prevent burns and skin irritation, in accordance with safety requirements.
- B. Safety Requirements
1. TORCHES OR ANY TYPE OF OPEN FLAME IS NOT PERMITTED ON THIS PROJECT.
 2. All application, material handling, and associated equipment shall conform to and be operated in conformance with OSHA safety requirements.
 3. Comply with federal, state, local and Owner fire and safety requirements.
 4. Advise Owner whenever work is expected to be hazardous to Owner employees and/or operations.
 5. Maintain proper fire extinguisher within easy access whenever power tools are being used.
 6. ALL SAFETY REQUIREMENTS OF THE OWNER MUST BE FOLLOWED. NO EXCEPTIONS WILL BE PERMITTED. SAFETY ORIENTATION MEETING REQUIRED PRIOR TO PERFORMING ANY WORK.
 7. THE CONTRACTOR SHALL "HOLD HARMLESS" THE DESIGN PROFESSIONAL AGAINST ANY LITIGATION ARISING FROM ANY ACCIDENTS DURING THE COURSE OF THE CONTRACT.
- C. The Contractor shall be responsible for guarding against fires, and shall provide suitable fire extinguishers conveniently located at the site.
- D. Competent operators shall be in attendance at all times equipment is in use. Materials shall be stored neatly in areas designated by the Owner and dispersed so as to present a minimum fire hazard.
- E. Material loads placed on the roofs or walls at any point shall not exceed the safe load for which the load bearing assembly is designed.
- F. Contractor shall conform to requirements as designated by the United States Federal Government (O.S.H.A.). Contractor shall abide by all regulations as outlined in the O.S.H.A. handbook and shall have a handbook on location at all times.
- G. Contractors hereby acknowledged that they and their workers have undergone Safety Training and shall at all times act in compliance with all NRCA recommended safety compliance rules and regulations.

- H. The Contractor shall properly notify all employees of conditions relating to Work areas with very poor condition and which will be worked on. After such notification, the Contractor must take all necessary precautions to ensure the safety of his/her employees as well as the building personnel.
- 1.11 WORK AREA TRAFFIC
- A. After work is started, no traffic will be permitted on work areas other than what is minimally necessary for the completion of Work for this project.
- 1.12 PRODUCT DELIVERY, STORAGE, AND HANDLING
- A. Proper storage on or off the site shall be the responsibility of the Contractor.
 - B. Refer to the specified requirements of Sections 01-48 of this project manual.
- 1.13 WORK SEQUENCE
- A. Once Work is started on a section, it shall continue without undue delay until that section is completed before starting another.
 - B. Coordinate sequence of Work with Owner prior to start of Work.
- 1.14 MISCELLANEOUS UTILITIES
- A. Electrical power will be furnished by the Owner for small tools only. All connections to the electrical system will be furnished by the Contractor.
 - B. The Owner will furnish potable water. Any connections to the water system shall be the responsibility of the Contractor.
 - C. At the completion of the work, or when the above connections are no longer required, the Contractor shall remove all connections and leave the facilities in a condition at least as satisfactory as prior to the commencement of his/her work.
 - D. The Contractor will provide toilet facilities.
 - 1. The Contractor will be responsible for supplying a portable toilet on the job-site.
 - 2. The Contractor's personnel are not permitted to enter the building without proper authorization from the Owner or Owner's Representative.
- 1.15 SITE SAFETY
- A. The Owner requires the Contractor to take all steps necessary to ensure the safety of people on the project property in areas adjacent to the Contractor's work areas. The safety of all people in or around the project site is expected to be the Contractors highest priority at all times.

- B. This includes, but is not limited to the following;
 - 1. Preventing access to the work area.
 - 2. Limiting access to areas adjacent to the work area. Use of safety mechanism such as warning signs, safety cones, safety fences, safety flags, etc.

1.16 CHANGES OR EXTRA WORK

- A. The Owner may, without invalidating the original contract, order such changes or additions as may from time to time be deemed desirable. In so doing, the contract price shall be adjusted, as stated below, with all work being done under the conditions of the original contract except for such adjustments in extension of time as may be acceptable to the Owner. The value of such extra work shall be determined in one of the following ways:
 - 1. By firm price adjustment.
 - 2. By cost plus with a guaranteed maximum.
 - 3. By cost with a fixed fee.
 - 4. By unit cost.
- B. If agreement is reached that the extra cost shall be handled as per methods 2, 3, or 4, the Contractor shall keep and compile a correct amount of the cost together with such vouchers, etc., as may be necessary to substantiate same for presentation to the Owner.
- C. The Owner's Representative shall have authority to make minor job changes or additions as may be necessary to expedite the job providing such changes do not involve additional material cost.
- D. No major change or addition shall be made except upon receipt by the Contractor of a signed order from the Owner authorizing such a change. No claims for an extra to the contract price shall be valid unless so authorized.

1.17 CORRECTION OF WORK PRIOR TO FINAL PAYMENT

- A. The Contractor shall promptly remove any work that does not meet the requirements of the plans and specifications or is incorrectly installed or otherwise disapproved by the Owner or the Owner's Representative as failing to meet the intent of the plans and specifications. The Contractor shall promptly replace any such work without expense to the Owner and shall bear the cost of making good all work of other contractors, or the Owner, destroyed or damaged by such removal or replacement.

1.18 DEDUCTION FOR UNCORRECTED WORK

- A. If the Owner deems it unacceptable to have the Contractor correct work that has been incorrectly done, a deduction from the contract price shall be agreed upon therefore. Such a deduction from the contract price shall in no way affect the Contractor's responsibility for defects that may occur nor his/her ability for correcting them, and damage caused by them.

1.19 CORRECTION OF WORK AFTER FINAL PAYMENT

- A. The Contractor shall provide the specified warranties for this project in order to address deficiencies in the work of this project after the Owner makes final payment to the Contractor.

1.20 LIENS

- A. The Contractor shall furnish the Owner with a release in full of all liens arising out of this contract or in lieu thereof, and receipts in full for all materials and labor on the job. In either case, the Contractor shall furnish an affidavit that the liens or receipts include all the labor and material for which a lien could be filed. In lieu of the above, the Contractor may at his/her option furnish a bond to indemnify the Owner against all hazards of liens. Neither part nor final payment shall in any way release the Contractor from the above obligation and in the event that part or full payment has been made and any lien remains un-discharged, the Contractor shall refund to the Owner the necessary funds to discharge such a lien including all cost and attorney's fees.

1.21 JOB CONDITIONS

- A. There is NO SMOKING allowed on the project property, and the Contractor shall be responsible for enforcement of this job rule at all times with his/her personnel.
- B. Ladders: Any ladders used on this project must be in good condition. The ladder must also be fully secured at their high point all times while in use. All ladders must be O.S.H.A. approved.
- C. No drugs or alcoholic beverages are permitted on the grounds.
- D. The Contractor shall place necessary barriers and/or protection around or under all work areas where his/her operations involve risk of injury to plant personnel.
- E. The Contractor will also protect the building structure from damage in the process of the job. In the event that damage does occur to any property or equipment, or the Owner's work in process, notification must be made within two (2) working days of the incidents to the Owner and Owner's Representative.
- F. During the progress of the job, if waste material and rubbish are found or damage resulting from the Contractor's operations is found, or the Contractor does not comply with the requirement by keeping the premises free of accumulations and correct the damage, it shall be the Owner's prerogative to hire personnel to do so; and the cost of this work will be deducted from the balance due the Contractor.
- G. The Contractor is responsible for protecting all materials from the elements. If any material becomes wet, it cannot be installed and must be replaced at the Contractor's expense. NOTE: Materials must be covered with waterproof tarps at the end of each workday. Plastic wrappers supplied by the manufacturer are not acceptable substitutes for tarps. The Owner's Representative will reject any covering method or material that does not adequately protect materials.
- H. Anyone guilty of willful destruction or unlawful removal of Owner's property will be dismissed from the job and is subject to prosecution by law.

- I. The Contractor must verify that all materials can be installed to accommodate the building design, governing codes and regulations, and the manufacturer's current recommendations. In the event of a conflict the more stringent shall govern.
- J. The Contractor will ensure that all substrates are clean, dry, sound, smooth, and free of dirt, debris, and other contamination before any materials are supplied.
- K. Contractor will ensure that no firearms or other weapons are brought onto any part of the Owner's property where this project is located for any reason.

1.22 WORKMANSHIP

- A. All materials will be securely fastened and placed in a watertight, neat and workmanlike manner. All workmen shall be thoroughly experienced in the particular class or work upon which they are employed. All work shall be done in accordance with these specifications and shall meet the approval of the Owner or Owner's Representative. The Contractor's representative or job supervisor shall have a complete copy of specifications and drawings on the job-site at all times.
- B. Contractor shall plan and conduct the operations of the work so that each section started on one day is complete and thoroughly protected before the close of work for that day.

1.23 WORK HOURS AND DAYS

- A. When the Contract is awarded, the Contractor will contact the Owner's Representative to arrange the work schedule and the hours of the day that the workers may be on the building.

1.24 COMPLIANCE WITH LAWS

- A. The Contractor shall give notices, pay all fees, permits and comply with all laws, ordinances, rules and regulations bearing on the conduct of work.

1.25 OWNER'S RULES

- A. The Contractor and all his/her personnel/agent(s) shall abide by all rules created by the Owner.
- B. The Contractor must contact the Owner's Representative for specific information regarding the rules governing all operations of the project.

1.26 ANTI-DISCRIMINATION IN EMPLOYMENT

- A. Contractors and subcontractors shall not discriminate against any employees or applicant for employment, to be employed in performance of his/her contract, with respect to his/her hire, tenure, terms, conditions or privileges of employment because of his/her race, color, gender, sexual preference, religion, national origin, or ancestry.

1.27 FINAL INSPECTION

- A. Upon completion of the installation warranted materials, unless noted otherwise, an inspection shall be made by a representative of the system manufacturer to ascertain that the system has been installed according to the system warrantor's published specifications and details. The warranty will be issued upon approval of the installation and payment for all materials and fees.

1.28 ADJUSTMENT AND REPAIR

- A. Any materials damaged or misapplied shall be repaired or replaced as designated by the building Owner and system warrantor. Repairs or replacement will be made by the contractor at no expense to Owner.

1.29 DISCREPANCIES AND ADDENDA

- A. Should a Bidder find any discrepancies in the Drawings and Specifications, or should he be in doubt as to their meaning, he/she shall notify the Owner's Representative at once, who will send a written Addendum to all Bidders concerned. Oral instructions or decisions, unless confirmed by Addenda, will not be considered valid, legal or binding.
- B. No extras will be authorized because of the Contractor's failure to include work called for in the Addenda in his/her bid.
- C. It shall be the responsibility of all Bidders to call to the Owner's Representative's attention at the pre bid meeting, any discrepancies which may exist between or with any of the contract documents, or any questions which may arise as to their true meaning.
- D. Modifications to the specifications (if necessary) will be followed by an addendum; no verbal discussions or agreements shall be recognized.

1.30 TERMINATION BY THE OWNER FOR CAUSE

- A. The Owner may terminate the Contract and finish the work by whatever reasonable method he/she deems necessary if the Contractor:
 - 1. Persistently or repeatedly refuses to supply specified materials or to provide enough skilled workers to ensure the project will be completed within the time period indicated on his/her Bid form;
 - 2. Is guilty of substantial breach of any provision of the project documents.

1.31 TAXES

- A. Contractor must comply with all state, federal and local taxes. The Contractor shall accept sole and exclusive responsibility for any and all state and federal taxes with respect to Social Security, unemployment benefits, withholding taxes and sales taxes.

1.32 BUILDING PERMITS

- A. The acquisition of the applicable permits and associated costs to obtain said permits will be the responsibility of the successful Contractor.

1.33 JOB COORDINATION

- A. Contractor is responsible for daily communication with the Owner or Owner's Representative relating to areas of Work in order that the Owner may adequately protect tenant's personal belongings, and the people themselves against possible damage or injury. Contractor is also responsible for policing and protecting areas involving removal and replacement of projections, defective substrates or other work involving substrate penetration.
- B. Seventy-two hours prior to starting of the project and/or delivery of materials, the Contractor shall notify the designated Owner's Representative.

1.34 CLEAN-UP

- A. Accumulated debris shall be removed periodically to assure maximum safety and sanitation at all times. At completion of work, the Contractor shall remove all excess material and debris from the site and leave all surfaces free from accumulations of dirt, debris and other extraneous materials. The Contractor shall also remove any and all drippage of fluid materials from the face of the buildings, floor, window, ladders and other adjacent finished surfaces.

1.35 SUPERINTENDENT

- A. The Contractor shall keep a competent non-working, English language speaking superintendent, satisfactory to the Owner and Owner's Representative, on the job at all times when work is in progress. The superintendent shall not be changed without notifying the Owner and the Owner's Representative.
- B. The superintendent shall attend all meetings beginning with the pre-installation meeting.
- C. The superintendent shall represent the Contractor in his/her absence and all directions and instructions given to the superintendent shall be as binding as if given directly to the Contractor.
- D. The superintendent shall be responsible for the conduct of all the Contractor's employees on the premises and shall promptly take necessary measures to correct any abuses called to his/her attention by the Owner.

1.36 ACCEPTABILITY OF COMPLETED WORK

- A. The acceptability of completed Work will be based on its conformance to the Contract requirement.
- B. The Owner and Owner Representative are not obligated to accept non-conforming work, and such non-conforming work may be rejected.
 - 1. The rejected work shall be promptly replaced or corrected in a manner and by methods approved by the Owner Representative at the Contractor's expense.
- C. Any deficiencies from the specified work noted by the Owner Representative will be immediately reported to the Owner, along with recommended corrective actions necessary.
- D. The Owner Representative will not act in a supervisory capacity, and will not be responsible for the Contractor errors or omissions.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 00 7400
SPECIAL CONDITIONS

PART 1 - GENERAL

1.01 WORK HOURS AND DAYS

- A. The Owner offers the successful bidder site and building access Monday through Saturday between the hours of 6 a.m. and 6 p.m.
- B. Actual construction times and/or work hours must be in accordance with applicable local ordinances.

1.02 TAXES

- A. Contractor must comply with all state, federal, and local taxes. The Contractor shall accept sole and exclusive responsibility for any and all state and federal taxes with respect to Social Security, unemployment benefits, withholding taxes, and sales taxes.

1.03 PROJECT DELAYS

- A. If delay is foreseen, the Contractor shall give immediate written notice to the Peach County Director of Public Works or a representative assigned by the Director. The Contractor must keep the County advised at all times of status of the project work.

1.04 DELIVERY FAILURE:

- A. Time is of the essence. Should the Contractor fail to supply the proper materials or work at the time and place as specified, or within a reasonable period of time thereafter, or should the Contractor fail to make a timely replacement of rejected items when so requested, the County may, at its sole discretion, cancel the contract and secure another Contractor.

1.05 INSURANCE REQUIREMENTS

- A. The Contractor shall be responsible for the work and every part thereof, and for all materials, tools, equipment, appliances, and properties of any and all description used in connection therewith. The Contractor assumes all risks of direct and indirect damage or injury to the property of persons used or employed on or in connection with the work contracted for, and of all damage or injury to any person or property wherever located, resulting from any action, omission, commission or operation under the Contract, or in connection in any way whatsoever with the contracted work.
- B. The Contractor shall, during the continuance of all work under the Contract, maintain the following insurance:

- C. Worker's Compensation and Employer's Liability insurance in an amount of not less than \$500,000 each accident, and \$500,000 each disease to protect the Contractor from any liability or damages for any injuries (including death and disability) to any of its employees, volunteers, or subcontractor, including any and all liability or damage which may arise by virtue of any statute or law in force within the State of Georgia, or which may be herein after enacted.
 - D. Comprehensive General Liability insurance in an amount of not less than \$1,000,000 per occurrence and \$2,000,000 policy limit to protect the Contractor, its subcontractor, and the interest of the County, against any and all injuries to third parties, including bodily injury and personal injury, wherever located, resulting from any action or operation under the Contract or in connection with the contracted work. The General Liability insurance shall also include the Broad Form Property Damage Liability endorsement, in addition to coverage for explosion, collapse, and underground hazards, where required.
 - E. Business Automobile Liability insurance in an amount of not less than \$1,000,000 per occurrence and \$2,000,000 policy limit to protect the Contractor, its subcontractor, and the interest of the County, against any and all injuries to third parties, including property damage, bodily injury and personal injury, wherever located, resulting from any automobile collision or accident.
 - F. Contractor shall notify the Owner, in writing, thirty (30) days prior to any change in insurance coverage, including cancellation, non-renewal, etc. The Contractor shall furnish a new certificate prior to any change or cancellation date. The failure of the Contractor to deliver a new and valid certificate shall result in suspension of all payments until the new certificate is furnished. Additionally, contract work may be suspended until the new certificate is furnished to the Owner.
 - G. Insurance coverage required in these specifications shall be in force throughout the Contract term. Should the Contractor fail to provide acceptable evidence of current insurance within five (5) days of written notice at any time during the Contract term, the Owner shall have the absolute right to terminate the Contract without any further obligation to the Contractor. Further, the Contractor shall be responsible for the cost of procuring the uncompleted portion of the Contract at the time of termination. Contractual and other Liability insurance provided under this Contract shall not contain a supervision, inspection, or engineering services exclusion that would preclude the Owner from supervising and/or inspecting the project as to the end result. The Contractor shall assume all on the job responsibilities as to the control of persons directly employed by it and of the subcontractor and any persons employed by the subcontractor.
 - H. The subcontractors shall comply with current Occupational Safety and Health Act requirements and amendments, as it may apply to this Contract.
- 1.06 ANTI-DISCRIMINATION IN EMPLOYMENT
- A. Contractors and subcontractors shall not discriminate against any employees or applicant for employment, to be employed in performance of his/her contract, with respect to his/her hire, tenure, terms, conditions or privileges of employment because of his/her race, color, gender, sexual preference, religion, national origin, or ancestry.

1.07 PAYMENT

- A. Payment for materials shall only be made after the material has been delivered to the job-site. A Purchase Order will be issued with the Notice to Proceed (NTP). An invoice for the material must be presented to the Owner for payment with the P.O. number indicated on the invoice. Materials are not to be delivered to the job-site until the project is ready to begin. The Contractor must provide a release of lien from the Material Manufacturer. Subsequent requests for payment can be made monthly. Invoices shall be submitted to:
 - 1. Peach County Public Works Department, Attention: Wayne Smith, Public Works Director, 410 Old Macon Road, Fort Valley, Georgia 31030.
- B. Final payment for the project will be made following completion, after the final inspection has been made and an invoice presented to the Owner.
- C. When the job in progress is interrupted for two (2) weeks or longer by causes beyond the Contractor's control such as a strike, weather, acts of God, etc., the Owner agrees to pay, upon request of the Contractor, a price equivalent to the percentage of work completed at that time. Regular progress payments shall be made for labor and/or materials installed and stored on-site.
- D. Each invoice shall be accompanied by a detailed estimate of the amounts and values of labor expended and materials purchased up to the last day of the preceding month.
- E. Such payments shall be viewed by both parties as progress payments and shall not in any way relieve the Contractor of performance obligations under this contract, nor shall such payments be viewed as approval or acceptance of work performed under this contract.
- F. Final payment shall be withheld until all provisions of the specifications are met, including all necessary clean-up, and the Owner receives written verification of completion.
- G. Upon completion of the job, the Owner, the Owner's Representative, and the Contractor will make final inspection of the work done, and the Owner's Representative will sign a completion slip authorizing final payments.
- H. All payments for material used in the execution of this contract can be made by a check issued jointly, payable to the Contractor and Owner's Representative if requested by Owner's Representative.
- I. If requested by the Owner and/or Owner's Representative, the Contractor shall provide a Letter of Credit from the bank to secure payment to material supplier.
- J. If requested by the Owner and/or Owner's Representative, a certified check shall be paid by the Contractor to material supplier prior to release of order.
- K. If requested by the Owner and/or Owner's Representative, a certified check shall be paid by the Contractor to material supplier via common carrier upon receipt of delivery.
- L. Contractor shall have a pre-approved line of credit from the material supplier.
- M. Final payment shall be made to the Contractor no later than thirty (30) days after job approval, providing the Contractor submits waivers of lien, and final affidavit (supplied by owner), with his/her invoice indicating that all suppliers, and sub contractors, have been paid.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 1113
SUMMARY OF WORK

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams, key plans, and general provisions of the Contract including General and Supplementary Conditions and other Division 01-48 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
 - 1. Work covered by the Contract Documents.
 - 2. Miscellaneous Provisions.

1.03 BASE BID WORK SUMMARIES

- A. Refer to project Key Plans and Diagrams, as well as remainder of project manual for additional requirements. Coordinate Base Bid work with project Alternates and Unit Prices as directed.
- B. Metal Roof Sections:
 - 1. Remove the existing roof and associated flashings.
 - 2. Install new 26 gauge pre-finished through fastened R panel over existing purlins and insulation.
 - 3. Fabricate and install new 26 gauge flashings associated with the metal roof to match the panel to include new gutters and downspouts.
 - 4. Install all flashings and accessories.
 - 5. Install new 26 gauge pre-finished through fastened R wall panels at areas indicated in the diagrams, which is generally any wall panel located above the roof assembly.
- C. Fiberglass Atrium At Entrance:
 - 1. Pressure wash all existing exterior fiberglass surfaces.
 - 2. Replace fasteners.
 - 3. Install specified fluid applied membrane to wall flashings.
 - 4. Install specified metal wall flashings.
 - 5. Install sealant at up slope detail between fiberglass and metal trim.

1.04 MISCELLANEOUS PROVISIONS

- A. Without exception, no product or material used on the Project will contain asbestos. Contractor is responsible for providing Consultant with manufacturer's written technical data for questionable items. If installed materials are found to contain asbestos, these materials will be removed and replaced with acceptable materials at Contractor's expense.
- B. Prior to Substantial Completion, inspect, test and adjust performance of every system of the Work to ensure that overall performance complies with the Project Specifications.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 2300

ALTERNATES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams, key plans, and general provisions of the Contract, including General and Supplementary Conditions and other Division 01-48 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This section includes administrative and procedural requirements for Alternates.

1.03 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. The cost or credit for each Alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.04 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
 - 1. Execute accepted alternates under the same conditions as other work of the Contract.
- C. Schedule: The Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.01 SCHEDULE OF ALTERNATES

- A. Alternate #1: Amount to be added to be Base Bid to provide additional insulation at new metal roof system.
 - 1. Description: Provide new 4" white reinforced vinyl backed, minimum R13, UL Approved. Provide additional materials and installation as required to meet ASTM E84 fire resistance. Provide materials that meet or exceed products provided by Certainteed. <https://www.certainteed.com/technical-insulation/products/metal-building-insulation/>
 - 2. Work for this alternate shall be performed in accordance with the requirements of this project manual and other contract documents.
 - 3. Contractor to determine need for additional work in conjunction with this Alternate and include in the Alternate price.
- B. Alternate #2: Amount to be added to be Base Bid to provide new windows at clerestory.
 - 1. Description: Remove existing clerestory windows and replace with new windows to match existing.
 - 2. Work for this alternate shall be performed in accordance with the requirements of this project manual and other contract documents.
 - 3. Contractor to determine need for additional work in conjunction with this Alternate and include in the Alternate price.

3.02 MISCELLANEOUS PROVISIONS

- A. Without exception, no product or material used on the Project will contain asbestos. Contractor is responsible for providing Consultant with manufacturer's written technical data for questionable items. If installed materials are found to contain asbestos, these materials will be removed and replaced with acceptable materials at Contractor's expense.
- B. Prior to Substantial Completion, inspect, test and adjust performance of every system of the roofing Work to ensure that overall performance complies with the Project Specifications.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 3100

PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams, key plans, and general provisions of the Contract, including General and Supplementary Conditions and other Division 01-48 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. Coordination Drawings.
 - 2. Project meetings.
 - 3. Requests for Interpretation (RFI).
- B. Related Sections include the following:
 - 1. Division 01 Section "Closeout Procedures" for coordinating closeout of the Contract.

1.03 DEFINITIONS

- A. RFI: Request from Contractor seeking interpretation or clarification of the Contract Documents.

1.04 COORDINATION

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components.
- B. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
- C. Preparation of Contractor's Construction Schedule.
 - 1. Preparation of the Schedule of Values.
 - 2. Delivery and Processing of Submittals.
 - 3. Progress Meetings.
 - 4. Pre-installation Conferences.
 - 5. Project Closeout Activities.

1.05 PROJECT MEETINGS

- A. General: Schedule and conduct meetings and conferences at Project site, unless otherwise indicated.
- B. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Consultant, Architect, and General Contractor of scheduled meeting dates and times.
- C. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
- D. Minutes: Record significant discussions and agreements achieved.
 - 1. Distribute the Meeting Minutes to everyone concerned, including Owner and Consultant, within three (3) days of the meeting.
- E. Preconstruction Conference: Schedule a Preconstruction Conference before starting construction, at a time convenient to Owner and Consultant, but no more than ten (10) days prior to start commencement of Work. Hold the conference at Project site or another convenient location. Conduct the meeting to review responsibilities and personnel assignments.
 - 1. Attendees: Authorized representatives of Owner, Consultant, Contractor, and relevant subcontractors shall attend the conference. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 - 2. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Critical work sequencing and long-lead items.
 - c. Designation of key personnel and their duties.
 - d. Procedures for processing field decisions and Change Orders.
 - e. Procedures for RFI's.
 - f. Procedures for testing and inspecting.
 - g. Procedures for processing Applications for Payment.
 - h. Use of the premises and existing building.
 - i. Work restrictions.
 - j. Owner's occupancy requirements.
 - k. Responsibility for temporary facilities and controls.
 - l. Construction waste management and recycling.
 - m. Parking availability.
 - n. Work and storage areas.
 - o. Equipment deliveries and priorities.
 - p. First aid.
 - q. Security.
 - r. Progress cleaning.
 - s. Working hours.

3. Minutes: Record and distribute meeting minutes.
 4. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.
- F. Progress Meetings: Contractor is required to be present at any project progress meetings requested by the Owner and/or Consultant.
1. The location, time and agenda for Progress Meetings will be set by the Owner and/or Consultant.
 2. Contractor shall have their Project Superintendent and any other personnel or representatives present, as requested by the Consultant.
- 1.06 REQUESTS FOR INTERPRETATION (RFI)
- A. Procedure: Immediately on discovery of the need for interpretation of the Contract Documents, and if not possible to request interpretation at Project meeting, prepare and submit an RFI in the form specified.
1. RFI shall originate with Contractor. RFI submitted by entities other than Contractor will be returned with no response.
 2. Coordinate and submit RFI in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- B. Content of the RFI: Include a detailed, legible description of item needing interpretation and the following:
1. Project name.
 2. Date.
 3. Name of Contractor.
 4. Name of Consultant.
 5. RFI number, numbered sequentially.
 6. Specification Section number and title and related paragraphs, as appropriate.
 7. Drawing number and detail references, as appropriate.
 8. Field dimensions and conditions, as appropriate.
 9. Contractor's suggested solution(s). If Contractor's solution(s) impact the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 10. Contractor's signature.
- C. Attachments: Include drawings, descriptions, measurements, photos, Product Data, Shop Drawings and other information necessary to fully describe items needing interpretation.
- D. Consultant's Action: Consultant will review each RFI, determine action required and return it. Allow seven (7) working days for Consultant's response for each RFI. RFI's received after 2:00 P.M. EDST will be considered as received the following working day.
1. The following RFI will be returned without action:
 - a. Requests for approval of submittals.

- b. Requests for approval of substitutions.
 - c. Requests for coordination information already indicated in the Contract Documents.
 - d. Requests for adjustments in the Contract Time or the Contract Sum.
 - e. Requests for interpretation of Consultant's actions on submittals.
 - f. Incomplete RFI's or RFI's with numerous errors.
2. Consultant's action may include a request for additional information, in which case Consultant's time for response will start again.
 3. Consultant's action on RFI's that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section "Contract Modification Procedures."
 4. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Consultant in writing within ten (10) days of receipt of the RFI response.
 5. On receipt of Consultant's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Consultant within seven (7) days if Contractor disagrees with response.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 3324

SUBMITTALS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams and general provisions of the Contract, including General and Supplementary Conditions and other Division 00-48 Specification Sections, apply to this Section.
- B. Refer to Attachment B, Example Construction Contract Agreement and General Conditions.

1.02 SUMMARY

- A. This Section includes administrative and procedural requirements governing submittals.
- B. Use of the word 'submittal' constitutes a requirement whether or not use of the word 'requirement' is specifically stated in the project manual.
- C. Types of submittals include the following:
 - 1. With Bid.
 - 2. Prior to Contract Award
 - 3. Prior to Mobilization for Work.
 - 4. During Work.

1.03 TO INCLUDE WITH BIDS

- A. Refer to Exhibit A, New Vendor Packet requirements.

1.04 SUBMITTALS PRIOR TO CONTRACT AWARD

- A. Due: Prior to award.
- B. Format and delivery: Do not staple, fold, spindle, bend, hole-punch, or otherwise physically alter the paper on which the submittal is printed in any way that would slow or jam a high-speed scanner. Properly package submittals to protect them during shipping. Damaged documents will be returned without review.
 - 1. Deliver hard/paper copies to Glenn Howell, Edifice Consulting Inc., P.O. Box 1060, Byron, Georgia 31008.
 - 2. Deliver electronic PDF copies by email to Glenn Howell, glenn@edifice.biz
- C. Content:
 - 1. Manufacturer's application manuals for all materials.
 - 2. A list of subcontractors that will be utilized on the project.
 - 3. Individual product identification, including material supplier's literature, product data sheets, and material safety data sheets for all products to be used on the project.

4. Specimen/Sample Warranty Copies: Provide one copy of each warranty listed in Section 01 6100, Warranty Requirements, meeting all specified requirements.

1.05 SUBMITTALS PRIOR TO MOBILIZATION FOR WORK

- A. Due: Minimum five working days prior to preconstruction meeting.
- B. Format and delivery: Do not staple, fold, spindle, bend, hole-punch, or otherwise physically alter the paper on which the submittal is printed in any way that would slow or jam a high-speed scanner. Properly package submittals to protect them during shipping. Damaged documents will be returned without review.
 1. Deliver hard/paper copies to Glenn Howell, Edifice Consulting Inc., P.O. Box 1060, Byron, Georgia 31008.
 2. Deliver electronic PDF copies by email to Glenn Howell, glenn@edifice.biz
- C. General Content:
 1. Any additional shop drawings requested of the bidder by the Owner, the Owner's consultant, or their representative.
 2. Insurance certificates with The Peach County Board of Commissioners listed as additionally insured.
 3. Sealant color charts.
 4. Contact information for manufacturers field technical representative.
- D. Standing Seam Metal Roof and Wall Panel Submittal Content:
 1. Manufacturer's application manuals for all materials
 2. A list of products for the system including Product Data Sheets for each product.
 3. Submit sample warranties complying with specified requirements.
 4. Shop Drawings: To be prepared by metal roof system manufacturer including Delegated-Design services.
 - a. Delegated-Design Services Statement: Submit a statement signed and sealed by the responsible engineer licensed in the state of Georgia indicating that the proposed products and systems are in compliance with performance and design criteria indicated. Include list of codes, loads, and other factors used in performing these services.
 - b. Plan with wind uplift pressure calculations at field, corner and perimeter areas according to version of ASCE-7 referenced by locally-adopted Building Code and the authority having jurisdiction.
 - c. Show panel layout, structural support, gutters and downspouts as applicable.
 - d. Provide flashing, gutter and downspout shop detail drawings. Indicate gage and finish of materials. Indicate fastener type, finish and spacing. Indicate locations of field applied sealant. Indicate location size and gauge of all back up plates.
 - e. Plan indicating roof clip and/or fastener spacing pattern at field, corner, perimeters and where panels are to be secured.

- f. Panel attachment and complete panel system structural support system including attachment to existing building must be designed and stamped by an engineer licensed in the State of Georgia.
5. Samples:
 - a. Submit two samples, 12" long, full width panel, showing metal gage, seam and required finish.
 - b. Two samples each for panel fastener, panel clip, bearing plate and clip fastener.
 - c. Submit color samples for Owner color selection.
6. Certification:
 - a. Submit panel manufacturer's certification that fasteners, clips, backup plates, closures, panels and finishes meet specification requirements, wind uplift requirements.
 - b. Submit panel manufacturer's certification that installer meets requirements to install panel system and is qualified to obtain required warranties.
7. Test Reports: Certified test results that indicate roof system meets or exceeds design and performance criteria.
8. Uplift Testing:
 - a. Underwriters Laboratory: Submit documentation that panel System has been tested for uplift in accordance with Underwriters Laboratories UL-580 and UL 1897 and has been tested to failure.
 - b. ASTM E 1592. Submit documentation that panel System has been tested for uplift in accordance with ASTM E 1592 and has been tested to failure.
 - c. Test reports for each prepared by independent test laboratory and stamped by a professional engineer substantiating that roof system will meet the allowable wind pressures with a safety factor of 2.0.
9. Static Water Testing Certification:
 - a. The panel system shall be tested in accordance with FM4471 Appendix G, and pass with no leakage. The test specimen must successfully withstand being submerged under 6" of water for a minimum period of 7 days.
10. Air and Water Testing Certification
 - a. ASTM E1680 - Manufacturer's test data for air infiltration rates up to 20 pounds per square inch differential pressure. ASTME1646- Manufacturer's test data for water infiltration rates up to 20 pounds per square inch differential pressure.
- E. Sheet Metal Items:
 1. Product Data: Manufacturer literature indicating product specifications, installation instructions, and standard construction details for specified products.
 2. Shop Drawings: Complete shop drawings showing configuration of proposed sheet metal items with dimensions, angles, metal types and gages, and locations of each item to be used.
 3. Manufacturer color charts (3 of each).
 4. Product data sheets.

- F. Sealant Items:
 - 1. Manufacturer application instructions for each sealant type used.
 - 2. Shop Drawings: Complete shop drawings showing configuration of proposed sealant joints with dimensions, sealant types, and locations of each item to be used. For locations, provide plan drawings and wall elevations indicating locations for each sealant joint.
 - 3. Manufacturer color charts (3 of each) for each sealant type used.
 - 4. Product data sheets.
 - 5. Maintenance Data: Provide manufacturer recommended maintenance data for installed system.
- G. Fluid Applied Waterproofing Membrane System Submittal Content:
 - 1. Manufacturer application instructions.
 - 2. Manufacturer color charts (3 of each).
 - 3. Product data sheets.
 - 4. Manufacturer details for all conditions found on project.
 - 5. Manufacturer sample warranty meeting the specified requirements.
- H. Metal Roof Insulation Items (if accepted by Alternate):
 - 1. Provide shop drawings including installation layouts, securement, accessories; and any special details.
 - 2. Provide all manufacturer instructions and recommendations for installation.
- I. Any additional shop drawings or submittals requested of the bidder by the Owner, the Owner's Consultant, or their representative.

1.06 SUBMITTALS DURING WORK

- A. Due: Within three (3) business days of occurrence.
- B. Format and delivery:
 - 1. Format: Electronic Adobe PDF format by email.
 - 2. Deliver to: Chuck Kilgore at chuck@edifice.biz.
- C. Content:
 - 1. One (1) copy of any third party field inspection report.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 4000
QUALITY CONTROL

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams and general provisions of the Contract, including General and Supplementary Conditions and other Division 00-48 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes requirements for quality control on this project.

1.03 QUALITY CONTROL

- A. Contractor shall:
 - 1. When required, provide a payment and performance bond equal to 100% of the bid amount, if awarded.
 - 2. Be experienced and well versed in:
 - a. Roofing sheet metal.
 - b. Cold fluid applied, fully reinforced roofing and waterproofing membrane systems.
 - c. Standing seam metal roof systems.
 - d. Working in government facility environments.
 - 3. Be acceptable to owner.
 - 4. Have operated under the same name, without court order protection from creditors, for no less than seven years.
 - 5. Maintain the specified liability insurance.
 - 6. Meet all submittal requirements.
- B. Roofing manufacturer shall:
 - 1. Be an Associate Member in good standing with National Roofing Contractor's Association (NRCA).
 - 2. Be recognized in roofing industry.
 - 3. Be approved by owner.

1.04 SUBMITTAL REQUIREMENTS CONSTITUTE QUALITY CONTROL REQUIREMENTS

- A. Submittal requirements in this project manual constitute quality control requirements for the project. Anything required as a submittal is understood to be a requirement for the project.

1.05 RANDOM SAMPLING

- A. During course of work, owner/owner's representative, may secure samples of materials being used from containers at job site and submit them to an independent laboratory for comparison to specified material.
- B. If test results prove that a material is not functionally equal to specified material:
 - 1. Contractor shall pay for all testing.
 - 2. Work will be replaced with material that meets the standard, at the Contractors full expense.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Comply with Quality Control, References, Specification, and Manufacturer's data. Where conflict may exist, more stringent requirements govern.

PART 3 - EXECUTION

3.01 SUBMITTALS

- A. Meet submittals requirements listed in Section 01 3324 of this project manual.

END OF SECTION

SECTION 01 6100
WARRANTY REQUIREMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams, key plans, and general provisions of the Contract, including General and Supplementary Conditions and other Division 01-48 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes project warranty requirements for specific components and systems.

1.03 METAL ROOF AND WALL PANEL SYSTEM WARRANTY

- A. Manufacturer Warranties:
 - 1. Panel Material: Furnish manufacturers 25 year warranty covering the panel against rupture, structural failure, or perforation.
 - 2. Panel Coating: Furnish manufacturer's 40-year warranty covering cracking, checking, and peeling, and 30 year warranty covering fade and chalk on the two coat coil applied, baked on full strength (70% resin, PVF2) fluorocarbon coating. Manufacturer's warranty may exclude surface deterioration due to physical damage and corrosive environments.

1.04 CONTRACTOR WARRANTY

- A. Contractor Roof Warranty: Standard Contractor's Roof Guarantee covering Work of this Project against failure due to poor workmanship or faulty installation within the specified warranty period.
 - 1. Warranty Period: Two (2) years from date of Substantial Completion.

1.05 EXPOSED SHEET METAL FACTORY APPLIED FINISH WARRANTY

- A. Special Warranty on Factory Applied Finishes: Where painted exposed metal is used, Manufacturer agrees to repair finish or replace sheet metal flashing and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Exposed Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 659-74.
 - c. Cracking, checking, peeling, or failure of paint to adhere to the bare substrate.
 - 2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION

SECTION 01 7700
CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams, key plans, and general provisions of the Contract, including General and Supplementary Conditions and other Division 01-48 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes administrative and procedural requirements for contract closeout, including but not limited to, the following:
 - 1. Inspection procedures.
 - 2. Warranties.
 - 3. Final cleaning.
- B. Related Sections include the following:
 - 1. Section 00 7400 - Special Conditions, for requirements for Applications for Payment prior to Final Completion (prior to project closeout).
 - 2. Divisions 02-48 "Sections" for specific closeout and special cleaning requirements for the Work in those Sections.

1.03 PROJECT CLOSEOUT SUBMITTALS

- A. Close out Submittals: Two (2) copies of close out submittals of which receipt and acceptance are pre-requisites for final payment shall include, but not necessarily be limited to, the following:
 - 1. Evidence of Payments and Release of Liens.
 - 2. Contractors Warranty.
 - 3. Manufacturers Warranty.
 - 4. Final Application for Payment.

1.04 SUBSTANTIAL COMPLETION

- A. Substantial Completion is the stage in the progress of the Work of this project, when all of the Work is sufficiently complete in accordance with the Contract Documents. The Consultant makes the final determination that Substantial Completion has been achieved by issuing a written Certificate of Substantial Completion.

- B. Preliminary Procedures: Before requesting a Final Inspection for determining date of Substantial Completion, complete the following. List items below that are incomplete in request.
1. Prepare a list of items to be completed and corrected (punch list), the value of items on the list and reasons why the Work is not complete.
 2. Prepare and submit project record documents, operation and maintenance manuals, and any requested final completion construction drawings.
 3. Deliver any requested extra materials and similar items to location designated by Owner. Label with manufacturer's name and model number where applicable.
 4. Terminate and remove temporary facilities from Project site, including mockups, construction tools, and similar elements.
 5. Complete all final cleaning requirements, including touchup painting.
 6. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.

1.05 FINAL INSPECTION

- A. Inspection: Submit a written request for a Final Inspection for Substantial Completion. On receipt of request, Consultant will either proceed with inspection or notify Contractor of unfulfilled requirements. Consultant will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Consultant that must be completed or corrected before certificate will be issued.

1.06 LIST OF INCOMPLETE ITEMS

- A. Preparation: Following the Final Inspection the Consultant will prepare a list of incomplete (Punch List) items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
- B. Re-Inspection: After completion of Punch List items, submit a written request to the Consultant for re-inspection. Final Application for Payment cannot be issued until all items have been satisfactorily completed.

1.07 EVIDENCE OF PAYMENTS AND RELEASE OF LIENS

- A. Contractor shall submit:
1. Contractor's Affidavit of Payment of Debts and Claims
 2. Contractor's Affidavit of Release of Liens.
 3. Consent of Surety to Final Payment.

1.08 FINAL ADJUSTMENT OF ACCOUNTS

- A. Submit final statement of accounting to the Consultant. Statement shall reflect all adjustments, including, but not necessarily limited to, the following:
1. Original Contract Sum.
 2. Additions and deductions resulting from:

- a. Previous change orders.
 - b. Unit Prices.
 - c. Other adjustments.
 - d. Deductions for uncorrected work.
 - e. Penalties and bonuses.
 - f. Total Contract Sum, as adjusted.
 - g. Previous payments.
 - h. Sum remaining due.
- B. The Consultant will prepare final change order, rejecting approved adjustment to Contract Sum not previously made by change order.

1.09 FINAL APPLICATION FOR PAYMENT

- A. Final project completion is the point where all items and activities required by the Contract Documents has been completed. The Final Completion date is determined by the Consultant.
- B. The following items must be submitted before Final Completion is achieved.
 - 1. Submission and approval of any required specific warranties, workmanship warranties, maintenance service agreements, final certifications and similar documents.
- C. Contractor shall submit final application in accord with requirements of General and/or Supplementary Conditions, and all applicable requirements of this project manual.

1.10 FINAL CERTIFICATE FOR PAYMENT

- A. A. The Consultant will issue final certificate in accord with provisions of General Conditions. Should final completion be materially delayed through no fault of Contractor, the Consultant may issue a Semi-Final Certificate for Payment, in accord with provisions of General Conditions.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.01 FINAL CLEANING

- A. General: Provide final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.

- B. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a portion of Project:
1. Clean Project site, yard and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter and other foreign substances.
 2. Sweep paved areas broom clean. Remove chemical spills, stains and other foreign deposits.
 3. Remove tools, construction equipment, machinery and surplus material from Project site.
 4. Remove discarded or uninstalled construction debris from site.
 5. Touch up and otherwise repair and restore marred, exposed finishes and surfaces. Replace finishes and surfaces that cannot be satisfactorily repaired or restored or that already show evidence of repair or restoration.
 6. Do not paint over "UL" and similar labels, including mechanical and electrical nameplates.
- C. Comply with safety standards for cleaning. Do not discharge volatile, harmful or dangerous materials into drainage systems. Remove waste materials from Project site and dispose of lawfully.

END OF SECTION

SECTION 02 4119
SELECTIVE ROOF DEMOLITION

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams, key plans, and general provisions of the Contract, including General and Supplementary Conditions and Division 01-48 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section Includes:
 - 1. Demolition and removal of selected portions of building, e.g. existing roof system materials as indicated in the Contract documents.

1.03 DEFINITIONS

- A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled.
- B. Remove and Reinstall: Detach items from existing construction, prepare for reuse, and reinstall where indicated.
- C. Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.
- D. Replace: Remove items of existing construction, dispose of materials off- site, unless otherwise indicated and install new material as indicated.

1.04 MATERIALS OWNERSHIP

- A. Except for items or materials indicated to be reused, reinstalled, or otherwise indicated to remain Owner's property, demolished materials shall become Contractor's property and shall be removed from Project site. Items of interest or value (i.e. copper and other valuable metals, historic items, or similar) to Owner that may be uncovered during demolition remain the property of Owner.

1.05 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning membrane roofing removal. Comply with hauling and disposal regulations of authorities having jurisdiction.

1.06 FIELD CONDITIONS

- A. Owner will occupy the building during the roof work. Should it be deemed unsafe to the building occupants during the roof work, the Contractor will coordinate with the Owner for roof removal to take place when the building is not occupied. Otherwise, conduct selective demolition so Owner's operations will not be disrupted.
 - 1. Conditions existing at time of inspection for bidding purposes will be maintained by Owner as far as it is practical.
- B. Existing site conditions are to be maintained by the Contractor during and through the completion of the project. Contractor shall restore all site conditions including landscaping, grassing, and planting to the pre-installation status upon completion of the work. Contractor shall include the furnishing of all necessary ground protection mats as necessary to protect the existing grounds during all phases of construction.
 - 1. Pre-demolition Photographs or Videos showing existing conditions of adjoining facilities, site improvements and building construction, including finish surfaces and equipment that might be misconstrued as damage caused by demolition and/or construction operations shall be taken and submitted before the work begins.
 - 2. Notify Consultant of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
 - 3. Storage or sale of removed items or materials on-site is not permitted.
- C. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.
- D. Hazardous Materials: It is not expected that hazardous materials such as asbestos-containing materials will be encountered in the Work. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Consultant and Owner.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
 - 1. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

- B. Review record documents of existing construction provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in record documents.
- C. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
 - 1. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Consultant.
- D. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs or videos.
 - 1. Inventory and record the condition of items to be removed and salvaged. Provide photographs or video of conditions that might be misconstrued as damage caused by salvage operations.
- E. Before selective demolition or removal of existing building elements that will be reproduced or duplicated in final Work, make permanent record of measurements, materials, and construction details required to make exact reproduction.

3.02 PREPARATION

- A. Coordinate with Owner to shut down air intake equipment in the vicinity of the work. Cover air intake louvers before proceeding with reroofing work that could affect indoor air quality or activate smoke detectors in the ductwork.
- B. During removal operations, have sufficient and suitable materials on-site to facilitate rapid installation of temporary protection in the event of unexpected rain.
- C. Existing Roof Drainage Components: Existing roof drainage components shall be maintained as follows:
 - 1. All existing roof drainage system components shall be cleaned and made functional prior to the removal of the existing roof system.
 - 2. Prevent debris from entering or blocking roof drainage system. Contractor shall inspect and remove any construction or other debris on a daily basis to ensure roof drainage.
 - 3. If roof drainage system is temporarily blocked or unserviceable due to roofing system removal or partial installation of new roofing system, provide alternative drainage method to remove water.
- D. Verify that rooftop utilities and service piping have been shut off before commencing Work.
- E. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
- F. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 - 1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.

2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.

3.03 DEMOLITION, EXISTING CONDITIONS

- A. All existing materials and assemblies described herein are those expected to be encountered during the work of this project, based on anecdotal evidence.
 1. The Owner, and Owner Representatives cannot verify the materials and configurations listed as “existing” on this project.
 2. The Contractor and their representatives are required to verify all existing materials, products, systems, and conditions on this project prior to bid submittal, prior to executing the Contract to perform work, and prior to and during the time work is completed for the Project.

3.04 SELECTIVE DEMOLITION, GENERAL

- A. Demolition Guidelines: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 1. Evaluate all projections and penetrations to ensure that each item is secured to the building structure. Any item not considered to be secured to the structure shall be brought to the owner’s attention prior to job start, or immediately upon discovery during roofing operations.
 2. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
 3. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
 4. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 5. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire- suppression devices during flame-cutting operations.
 6. Maintain adequate ventilation when using cutting torches.
 7. Remove decayed, animal-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
 8. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 9. Dispose of demolished items and materials promptly.

10. Removed and Reinstalled Items:
 - a. Clean and repair items to functional condition adequate for intended reuse.
 - b. Pack or crate items after cleaning and repairing. Identify contents of containers.
 - c. Protect items from damage during transport and storage.
 - B. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.
 - C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Consultant, items may be removed to a suitable, protected storage location during selective demolition and reinstalled in their original locations after selective demolition operations are complete.
 - D. No roofing materials will be removed or installed under adverse weather conditions. All work shall be scheduled and executed without exposing interior building areas to the effects of inclement weather. The existing building and its contents shall be protected against all reasonable risks.
 - E. Only as much existing roofing shall be removed and new roofing installed as can be made weather-tight each day. This includes all flashing work.
 - F. All existing roofing materials torn-off shall be immediately removed from the site to a dumping area authorized to receive such debris.
 - G. Any unusual or concealed conditions discovered during the course of the work that may adversely affect the performance of the new roof system must be immediately reported to the Consultant. All work shall be halted until the Consultant has responded with a solution to the problem.
 - H. Any substrate to receive new insulation, membrane or flashing shall be thoroughly dry. Existing wet materials must be removed prior to the application of the new membrane system. Should surface moisture occur on the decking, the contractor shall provide adequate equipment to dry the substrate.
 - I. Temporary waterstops shall be installed at the end of each workday and if inclement weather conditions dictate during the course of day's work. These temporary waterstops shall be removed at the start of the next workday and disposed of properly. No temporary waterstops shall be made so as to obstruct water flow on the completed system (i.e. crickets, drain sumps, etc.). Polyethylene is not considered a temporary covering.
- 3.05 DISPOSAL OF DEMOLISHED OR DAMAGED MATERIALS
- A. General: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an certified, EPA-approved landfill. Follow any stated Owner specific disposal requirements.
 1. Collect and place demolished materials in containers.
 2. Do not allow demolished materials to accumulate on-site.

3. Storage or sale of demolished items or materials on-site will not be permitted.
 4. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 5. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Owner's property and legally dispose of them.
- D. New materials that are wet or damaged and unacceptable for installation on the project must be disposed of in accordance with the requirements of this project.

3.06 CLEANING

- A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION

SECTION 07 4100

METAL ROOF AND WALL PANEL SYSTEM

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01-48 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section Includes: Factory-formed metal roof and wall panels, including fascia, soffit and liner panels and includes:

1. Factory-formed panels in sloped horizontal and vertical configuration.
2. Metal flashings and trim.

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 1. ASTM A653/A653M Standard Specification for Steel Sheets, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 2. ASTM A792/A792M Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy Coated by the Hot-Dip Process.
 3. ASTM B209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
 4. ASTM D2247 Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity.
 5. ASTM E1680 Standard Test Method for Determining the Rate of Air Leakage Through Exterior Metal Roof Systems Under Specified Pressure Differences Across the Specimen.
 6. ASTM E1646 Standard Test Method for Water Penetration of Metal Roof Systems by Uniform Static Air Pressure Difference.
 7. ASTM G90 Standard Practice for Performing Accelerated Outdoor Weathering of Non-Metallic Materials Using Concentrated Natural Sunlight.

1.04 SYSTEM DESCRIPTION

- A. Panel Performance Requirements: Provide panels, which have been manufactured, fabricated and installed to withstand structural and thermal movement, wind loading and weather exposure to maintain manufacturer's performance criteria without defects, damage, failure or infiltration of water.
 1. Air Infiltration: Maximum 0.011 cfm/lf (0.061 m³/hr/m) of seam at static pressure of +/- 6.24 psf (0.30 kPa) when tested per ASTM E1680.
 2. Water Penetration: No uncontrolled water penetration through the panel joints at a static pressure of 12.0 psf (0.57 kPa) when tested in accordance with ASTM E1646.

- B. Finish Performance Requirements:
 - 1. Color Change and Fade Resistance: No cracking, peeling, blistering or loss of adhesion when tested in accordance with ASTM G23; color change, after removal of surface deposits such as dirt or chalk, maximum 5 ? Hunter units.
 - 2. Humidity Resistance: No blistering, peeling or loss of adhesion, after 2000 hours testing in accordance with ASTM D2247.
- C. Delegated Design: Roof and wall panel system shall be designed by structural engineer licensed in the state of Georgia. All costs associated with system design is the responsibility of the Contractor and/or system manufacturer. Complete system shall comply with applicable building codes.

1.05 QUALITY ASSURANCE

- A. Sheet Metal Industry Standard: Comply with Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Architectural Sheet Metal Manual.

1.06 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Sections.
 - 1. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact. Identify fabricated components with UL 90 label where appropriate.
- C. Packing, Shipping, Handling and Unloading:
 - 1. Bundle panels in waterproof wrapping paper when nested, or wooden crates when panels cannot be nested.
 - 2. Package trim and accessories in waterproof wrapping paper.
- D. Storage and Protection: Store materials protected from exposure to harmful conditions. Store material in dry, above-ground location.
 - 1. Stack prefinished material to prevent twisting, bending, abrasion, scratching and denting. Elevate one end of each skid to allow for moisture run off.
 - 2. Store products of this section in manufacturer's unopened packaging until installation of products.
 - 3. Maintain dry, heated storage area for products of this section until installation of products.

1.07 PROJECT CONDITIONS

- A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements, fabrication schedule with construction progress to avoid construction delays.

PART 2 PRODUCTS

2.01 ROOF AND WALL PANEL SYSTEM

- A. Approved Manufacturers:
 - 1. Berridge Metal, Inc.; www.berridge.com
 - 2. McElroy Metal, Inc.; www.mcelroymetal.com
 - 3. Petersen Aluminum, Inc.; www.pac-clad.com
- B. The preferred system appearance, panel profile, and general system configuration is: R-Panel System by McElroy. Similar systems by the approved manufacturers are acceptable.
- C. Source Quality: Obtain metal panel products from a single manufacturer.

2.02 MANUFACTURED PANEL UNITS

- A. McElroy Metal R-Panel:
 - 1. Profile: Major longitudinal ribs 1 1/4" (32 mm) deep, spaced 12" (305 mm) on center; minor longitudinal ribs centered between major ribs, spaced 4" (102 mm) on center panel; normal-run where ribs protrude from panel plane, viewed from exterior, reverse-run where ribs recede from panel plane, viewed from exterior.
 - 2. Size: 36" (914 mm) cover width, lengths indicated on drawings.
 - 3. Material: Galvalume Sheet Steel conforming to ASTM A792; AZ55 coating for bare; AZ50 coating for painted; 22 gauge sheet thickness.
 - 4. Finish: Polyvinylidene fluoride color coat, minimum 70% polyvinylidene fluoride resin content, applied to sight-exposed face of sheet after pretreatment and priming in accordance with coating manufacturer's recommendations.
 - a. Color: Selected from full range of manufacturer's standard colors.
- B. Clips and Fasteners: Supply items required for installation of panels in accordance with manufacturer's installation instructions and other indicated items; supply galvanized clips and fasteners.

2.03 FASTENERS AND ACCESSORIES

- A. Provide complete system with all trim, flashings, fasteners, and accessories.
- B. Trim and flashing will be of the same gage and finish unless approved otherwise by the metal panel system manufacturer.
 - 1. All sheet metal valleys will be supplied in continuous lengths up to 32 feet.
 - 2. Ridge closures, consisting of metal channel surrounding factory precut closed cell foam, will not be secured through the field of the panel.
 - 3. Trim will be installed specifically as displayed in the manufacturer provided shop drawings. Proposed changes must be approved in writing by the metal panel system manufacturer.

- C. Concealed supports, angles, plates, accessories and brackets: in gage and finish as recommended, and furnished by manufacturer.
- D. Accessory Screw: Size and screw type as provided by panel manufacturer for each use, with prefinished hex washer head in color to match panels where exposed to view.
- E. Rivets: full stainless steel, including mandrel, in size to match application.
- F. Field Sealant: Color coordinated primer-less silicone, or high-grade, non-drying butyl, as supplied by panel manufacturer.
- G. Sealant Tape: non-drying, 100 percent solids, high-grade butyl tape, as supplied by panel manufacturer, in sizes to match application.
- H. Pipe Penetration Flashings: flexible boot type, with stainless steel compression ring, and stainless steel pipe strap, Dektite by Buildex, or approved substitute. Use silicone type at hot pipes.

2.04 ADDITIONAL ACCESSORY MATERIALS

- A. Underlayment: Self adhered SBS underlayment, designed for high temperature, standing seam metal underlayment applications.
 - 1. Basis of Design: Metal panel system manufacturers own underlayment.
 - 2. Additional acceptable products subject to approval by metal panel system manufacturer:
 - a. Mid-States, Quick-Stick HT.
 - b. W R Grace, Ice & Water Shield HT.
 - c. Henry, Blueskin PE 200 HT.
- B. Bituminous Coating: Cold-applied asphaltic mastic, free of asbestos fibers, sulfur, and other harmful impurities. For separation of dissimilar metals.
- C. Touch-Up Paint: Approved by panel manufacturer.
- D. Miscellaneous Metal Flashing and Trim: Fabricate in minimum 96-inch long, but not exceeding 12-foot long, sections. Furnish with continuous cleats to support edge of external leg. Miter corners, fasten and seal watertight.
 - 1. Coordinate with the requirements of 07 6200 - Sheet Metal Flashing and Trim.
 - 2. Profile: As indicated on drawings.
 - 3. Performance: Fascia/edge assemblies to meet ANSI-SPRI ES-1 wind uplift requirement.
 - 4. Joint Style: Lapped with continuous sealant. Accommodate space required for thermal expansion and contraction.
 - 5. Fabricate from the following materials:
 - a. Match specified metal panels.
 - b. Color to be selected by Owner from manufacturer standard color chart.

PART 3 EXECUTION

3.01 MANUFACTURER INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, recommendations and installations instructions for substrate verification, preparation requirements and installation.
 - 1. Strippable Film: Remove manufacturer's protective film, if any, from surfaces of metal panels and trim.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.
 - 1. Verification of Conditions:
 - a. Panel support systems are ready for construction activities of this section and within specified tolerances.
 - b. Rough-in utilities are in correct locations.
 - 2. Installer's Examination:
 - a. Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if such conditions are unacceptable.
 - b. Delay construction activities of this section until unacceptable conditions have been corrected.
 - c. Beginning construction activities of this section indicates installer's acceptance of conditions.

3.03 PREPARATION

- A. Coordination: Coordinate metal panel installation with other work including drainage, flashing and trim, deck substrates, parapets, copings, walls and other adjoining work to provide a noncorrosive and leakproof installation.
- B. Dissimilar Metals: Prevent galvanic action of dissimilar metals.

3.04 INSTALLATION

- A. General: Install metal panels to profiles, patterns and drainage indicated and required for leakproof installation. Provide for structural and thermal movement of work. Seal joints for leakproof installation.
 - 1. Seams: Provide uniform, neat seams.
 - 2. Sealant-Type Joints: Provide sealant-type joint where indicated. Form joints to conceal sealant. Comply with Division 7 Joint Sealants Section for sealant installation.

- B. Panel Installation:
 - 1. Install panels plumb, true and in correct alignment with structural framing, in accordance with shop drawings and manufacturer's printed installation instructions.

- C. Installation Tolerances:
 - 1. Variation from Plumb: Maximum 1/8" (3.2 mm) in 20 feet (6.096 m).
 - 2. Variation from Level: Maximum 1/8" (3.2 mm) in 20 feet (6.096 m).
 - 3. Variation from True Plane: Maximum 1/8" (3.2 mm) in 20 feet (6.096 m).

3.05 FIELD QUALITY REQUIREMENTS

- A. Site Tests (Post-Installation Testing): Owner reserves right to perform post-installation testing of installed metal panel installation.
- B. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions.

3.06 CLEANING

- A. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.
- B. Remove strippable coating and perform dry wipe-down cleaning of panels as erected.

3.07 PROTECTION

- A. Protection: Protect installed product's finish surfaces from damage during construction.
 - 1. Protect installed products from damage by subsequent construction activities.
 - 2. Replace products having damage other than minor finish damage.
 - 3. Repair products having minor damage to finish in accordance with panel manufacturer's recommendations.
 - 4. Consultant shall be sole judge of acceptability of repair to damaged finishes; replace products having rejected repairs.

END OF SECTION

SECTION 07 5603

FLUID APPLIED WATERPROOFING MEMBRANE

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams and general provisions of the Contract, including General and Supplementary Conditions and other Division 00-48 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This section specifies all labor, materials, transportation, equipment and services necessary to install a fluid applied waterproofing system, or other approved substrate by manufacturer and shown on the drawings and described herein.

1.03 REFERENCES

- A. Factory Mutual (FM Global) - Approval Guide
- B. American Society for Testing and Materials (ASTM) - Annual Book of ASTM Standards
- C. National Roofing Contractors Association (NRCA)
- D. American Society of Civil Engineers (ASCE)

1.04 DEFINITIONS

- A. Roofing Terminology: Refer to ASTM D1079 and the glossary of the National Roofing Contractors Association (NRCA) Roofing and Waterproofing Manual for definitions of roofing terms related to this section.

1.05 PERFORMANCE REQUIREMENTS

- A. Provide an installed roofing membrane that does not permit the passage of water, and will withstand the design pressures calculated in accordance with the most current revision of ASCE 7.
- B. Manufacturer shall provide all primary waterproofing materials that are physically and chemically compatible when installed in accordance with manufacturers current application requirements.

1.06 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Manufacturer shall demonstrate qualifications to supply materials of this section by certifying the following:
 - 1. Membrane Manufacturer must show evidence that the specified membrane has been manufactured by the same organization or direct affiliate for fifteen (15) years.

2. Membrane Manufacturer shall have available an in-house technical staff to assist the contractor, when necessary, in application of the products and final inspection of the assembly.
- B. Installer's Qualifications: The Contractor shall demonstrate qualifications to perform the work of this Section by submitting the following documentation:
 1. Certification or license by the waterproofing membrane manufacturer as a trained applicator of the product the installer intends to use.
 - C. Source Limitations: All components listed in this section shall be provided by a single manufacturer or approved by the primary waterproofing manufacturer.
 - D. Final Inspection
 1. Manufacturers representative shall provide a comprehensive final inspection after completion of the waterproofing system. All application errors must be addressed and final punch list completed.
- 1.07 REGULATORY REQUIREMENTS
- A. All work shall be performed in a safe, professional manner, conforming to all federal, state and local codes.
 - B. All waterproofing system components shall meet current VOC regulations as established by the State in which they are being installed; and stating total VOC content, in grams per litre, for all system components (i.e. primers, adhesives, coatings, etc.)
- 1.08 DELIVERY, STORAGE AND HANDLING
- A. Deliver all waterproofing materials to the site in original containers, with factory seals intact.
 - B. Store all pail goods in their original undamaged containers in a clean, dry location within their specified temperature range.
 - C. Do not expose materials to moisture in any form before, during, or after delivery to the site. Reject delivery of materials that show evidence of contact with moisture.
 - D. Remove manufacturer supplied plastic covers from materials provided with such. Use "breathable" type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Cover and protect materials at the end of each workday. Do not remove any protective tarpaulins until immediately before the material will be installed.
 - E. Materials shall be stored above 55°F (12.6°C) a minimum of 24 hours prior to application.
- 1.09 PROJECT CONDITIONS
- A. Weather
 1. Proceed with waterproofing only when existing and forecasted weather conditions permit.
 2. Membrane installation can proceed when ambient temperatures are above 40°F (4.4°C), provided the substrate temperature is a minimum of 5°F above the dew point.

3. It is recommended that overnight temperatures be above 40°F (4.4°C) when applying the membrane system. Consult with the manufacturer for cold weather installation procedures when ambient temperatures are expected to fall below the minimums established herein.
- B. All surfaces to receive the membrane shall be free from visible water, dew, frost, snow and ice.
- C. Application of membrane should be conducted in well-ventilated areas.
- D. Over its service life, do not expose membrane to a constant temperature below -58°F (-50°C) or in excess of 176°F (80°C) (i.e., hot pipes and vents or direct steam venting, etc.).
- E. Sikalastic RoofPro (Decothane) is non-flammable and VOC compliant. Consult container or packaging labels and Safety Data Sheets (SDS) for specific safety information.
- F. Sikalastic RoofPro (Decothane) is resistant to gasoline, paraffin, fuel oil, mineral spirits, and moderate solutions of acids and alkalis, acid rain and detergents. Some low molecular weight alcohols can soften. Any exposure to foreign materials or chemical discharges must be presented to membrane manufacturer for evaluation to determine any impact on the waterproof membrane assembly performance prior to warranty issuance.
- G. Contractor shall ensure adequate protection during installation of the waterproofing system. Sikalastic RoofPro (Decothane) may be applied to properly prepared concrete decks, at a wet film thickness of 15-20 mils, for use as a temporary waterproofing barrier. Sikalastic RoofPro (Decothane) applied as a temporary waterproofing membrane does not have to be removed prior to installation of the specified waterproofing system.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis of Design: Sika RoofPro by Sika Corporation
- B. Acceptable manufacturers subject to compliance with specified requirements:
 1. Sika Corporation, Inc.; RoofPro System.
 2. Siplast-Icopal, Inc.; Parapro 123 System.
 3. Kemper System Inc.; 2k-PUR System.

2.02 SEALANTS AND PRIMERS

- A. A rapid curing, water-based primer consisting of two components for existing EIFS, brick, concrete unit masonry (CMU), wallboard, exterior grade gypsum sheathing and previously coated surfaces, Sika Bonding Primer.
- B. A two-component, solvent free, epoxy primer and damp proof membrane, which is designed to be applied to damp or new concrete with high moisture drive prior to the application of Decothane systems, Sikalastic DTE Primer.
- C. A two-component, rapid curing, high solids, solvent based, damp-proof primer designed for sealing cementitious substrates, Sika Concrete Primer (Quick Cure Primer).

- D. A two-component, cyclo-aliphatic, amine cured material with a high level of corrosion resistance for metal, modified bitumen surfaces, and chemically treated wood, Sikalastic EP Primer/Sealer (Epoxy Primer).
- E. A single component, polyurethane based primer for the reactivation of existing Sikalastic RoofPro (Decothane) systems prior to over coating, Sika Reactivation Primer.
- F. One part polyurethane sealant suitable for sealing reglet terminations, cracks and providing a suitable transition between the waterproofing system and roof penetrations prior to the installation of the membrane system. Meets or exceeds ASTM C-920-87, Type S, Grade NS, Class 25, Sikaflex® 1a, or equal as approved by membrane manufacturer.

2.03 FLUID APPLIED MEMBRANE MATERIALS

- A. A conformable, random woven fiberglass mat for total reinforcement of the roofing/waterproofing membrane system, which provides greater impact resistance and greater resistance to excessive thermal and structural movement while maintaining elasticity and membrane film integrity, Sika Reemat.
- B. A nylon mesh for local reinforcement of the roofing/waterproofing membrane at structural cracks, expansion joints, and transitions between dissimilar materials, Sika Flexi tape Heavy.
- C. A single component, cold, fluid applied, moisture triggered, aliphatic, polyurethane meeting the following physical properties and ASTM D7311-07: Standard Specification for Liquid Applied, Single Component, Moisture-Triggered, Aliphatic Polyurethanes used in Roofing, Sikalastic 621 TC.

2.04 FLASHING MATERIALS

- A. The fluid-applied membrane system is seamless and self-flashing. No special flashings are required for system installation, unless noted otherwise in Contract Documents.

PART 3 EXECUTION

3.01 INSPECTION

- A. Verify that the surfaces and site conditions are ready to receive work.
- B. Verify that the deck is supported and secured.
- C. Verify that the deck is clean and smooth, free of depressions, waves, or projections, and properly sloped to drains, valleys, eaves, scuppers or gutters.
- D. Verify that the deck surfaces are dry and free of ice or snow.
- E. Verify that all roof openings or penetrations through the roof are solidly set.

3.02 INSTALLATION - GENERAL

- A. Comply with manufacturer recommendations and requirements for installation and substrate preparation.

B. Local Reinforcement (Cracks, Joints, and Dissimilar Material Transitions)

1. Apply a minimum 1" bond break at repaired cracks in substrates, at joints between substrate materials, and at transitions between dissimilar materials, prior to applying the specified membrane system. Bond break should be installed centered over each joint or crack.
2. Follow by applying a strip coat of polyurethane resin at a width a minimum of 1" wider than the reinforcement, and while wet, insert nylon tape reinforcement into the wet membrane and backroll to full embedment adding additional material as needed.
3. Ensure that local reinforcing mesh is not in tension during embedment.

C. Membrane Application

1. Basis of Design is the Sikalastic RoofPro 20-Year System
 - a. Sikalastic 621 TC (Decothane SP)
 - b. Sikalastic 621 TC (Decothane SP)
2. The base embedment coat shall be applied to all horizontal and vertical surfaces by 1/2" - 3/4" nap roller, brush or airless spray to achieve minimum wet film thicknesses as specified above.
3. While the base embedment coat is still wet, immediately lay precut lengths of conformable reinforcing scrim (Sika Reemat) into the wet base embedment coat, and using a short nap roller with the appropriate roller frame and handle, roll the scrim to force the wet coating up through the scrim to achieve full saturation and embedment. Add additional material, if necessary, to ensure that the mesh is fully saturated and fully conformed to the substrate without any visible pinholes.
4. Minimum overlap of the reinforcement mesh shall be 2" in all directions. reinforcement shall turn up all adjacent wall surfaces, etc. until the termination point is accomplished according to the project details and specifications. Membrane terminations should be finalized prior to project start-up and documented in shop drawings, but in general, terminations should occur in raked out mortar joints, saw cut terminations, and where feasible, under installed counter-flashing materials. Tape lines should always be used to achieve a straight and professional looking edge detail.
5. Allow the base embedment coat to cure and dry prior to the next application procedure.
6. Apply top coat by 1/2" - 3/4" nap roller, brush or airless spray to achieve minimum wet film thicknesses, as specified in the table above.
7. Allow top coat to dry overnight prior to exposing to foot traffic.

3.03 FLASHINGS

A. Horizontal to Vertical Transitions:

1. Terminate the Sikalastic RoofPro fluid applied membrane at a tape-line to ensure a clean edge.
2. Where possible, terminate the fluid applied membrane within a sawcut reglet and finish the reglet with Sikaflex 1a, single component polyurethane sealant.
3. Metal counterflashings are optional, but recommended.

3.04 PROTECTION

- A. Protect all partially and fully completed waterproofing work from other trades until completion.
- B. Whenever possible, stage materials in such a manner that foot traffic is minimized over completed areas.
- C. When it is not possible to stage materials away from locations where partial or complete installation has taken place, temporary walkways and platforms shall be installed in order to protect all completed areas from traffic and point loading during the application process.

3.05 CLEAN-UP

- A. All work areas are to be kept clean, clear and free of debris at all times.
- B. Do not allow trash, waste, or debris to collect on the roof. These items shall be removed from the roof on a daily basis.
- C. All tools and unused materials must be collected at the end of each workday and stored properly off of the finished roof surface and protected from exposure to the elements.
- D. Dispose of or recycle all trash and excess material in a manner conforming to current EPA regulations and local laws.
- E. Properly clean the finished roof surface after completion, and make sure the drains and gutters are not clogged.
- F. Clean and restore all damaged surfaces to their original condition.

END OF SECTION

SECTION 07 6200

SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams, key plans, and general provisions of the Contract, including General and Supplementary Conditions and Division 01-48 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. Section includes formed sheet metal roof component fabrications.

1.03 COORDINATION

- A. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.
- B. Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials, joints, and seams to provide leak-proof, secure, and noncorrosive installation.

1.04 QUALITY ASSURANCE

- A. Fabricator Qualifications: Employ skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver sheet metal flashing materials and fabrications undamaged. Protect sheet metal flashing and trim materials and fabrications during transportation and handling.
- B. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage. Store sheet metal flashing and trim materials away from uncured concrete and masonry.
- C. Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to extent necessary for period of sheet metal flashing and trim installation.

PART 2 - PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

- A. General: Sheet metal flashing and trim assemblies shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.

- B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.
- C. FM Approvals Listing: Manufacture and install copings and roof edge flashings that are listed in FM Approvals' "RoofNav" and approved for windstorm classification, Class 1-90. Identify materials with name of fabricator and design approved by FM Approvals.
- D. System and components shall comply with applicable state International Building Code (IBC) requirements including ANSI-SPRI/ES-1.
- E. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
 - 1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.02 SHEET METALS

- A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.

2.03 MISCELLANEOUS MATERIALS

- A. General: Provide materials and types of fasteners, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.
- B. Fasteners: Wood screws, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.
 - 1. General: Self-drilling screws, gasketed, with hex-washer head.
 - a. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating. Provide metal-backed EPDM or PVC sealing washers under heads of exposed fasteners bearing on weather side of metal.
 - b. Concealed Fasteners: High-strength aluminum or stainless steel rivets suitable for metal being fastened.
 - 2. Fasteners for Stainless-Steel Sheet: Series 300 stainless steel.
 - 3. Fasteners for Zinc-Coated (Galvanized) Aluminum-Zinc Alloy-Coated Steel Sheet: Series 300 stainless.
 - 4. Fasteners for attachment of wood nailers and blocking: Series 300 Stainless steel screws.
- C. Sealants and Tapes: Refer to Section 07 9200 - Joint Sealants.

2.04 FABRICATION, GENERAL

- A. General: Custom fabricate sheet metal flashing and trim to comply with details shown and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required. Fabricate sheet metal flashing and trim in shop to greatest extent possible.
 - 1. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.
 - 2. Obtain field measurements for accurate fit before shop fabrication.
 - 3. Form sheet metal flashing and trim to fit substrates without excessive oil canning, buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded back to form hems.
 - 4. Conceal fasteners and expansion provisions where possible. Do not use exposed fasteners on faces exposed to view.
- B. Fabrication Tolerances: Fabricate sheet metal flashing and trim that is capable of installation to a tolerance of 1/4-inch in 20-feet on slope and location lines indicated on Drawings and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.
- C. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.
 - 1. Use lapped expansion joint unless otherwise shown.
- D. Sealant Joints: Where movable, non expansion-type joints are required; form metal to provide for proper installation of elastomeric sealant as specified.
- E. Fabricate cleats and attachment devices from compatible metals and in accordance with applicable ANSI-SPRI requirements.
- F. Seams: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with elastomeric sealant unless otherwise recommended by sealant manufacturer for intended use, rivet joints where necessary for strength.
- G. Do not use graphite pencils to mark metal surfaces.

2.05 ROOF SHEET METAL FABRICATIONS, GENERAL

- A. General: Any clarifications will be in accordance with National Roofing Contractors Association (NRCA) standards.
- B. Roof System Edge Metal Cleats (Typical in All Locations):
 - 1. Fabricate from the following materials:
 - a. Provide cleat in metal type and gauge required for specified ANSI/SPRI ES-1 wind uplift test requirements.
 - b. Ensure protection from corrosive action caused by contact of dissimilar metals.

- C. Counter-flashing:
 - 1. Fabricate from the following materials:
 - a. 26 ga. Galvanized steel with factory Kynar finish in color selected by Owner from manufacturer standard colors.
 - D. Trim Flashing/Skirt Flashing:
 - 1. Fabricate from the following materials:
 - a. 26 ga. Galvanized steel with factory Kynar finish in color selected by Owner from manufacturer standard colors.
 - E. Flashing Receivers and Miscellaneous Sheet Metal:
 - 1. Fabricate from the following materials:
 - a. 26 ga. Galvanized steel with factory Kynar finish in color selected by Owner from manufacturer standard colors.
 - F. Gutters:
 - 1. Fabricate from the following materials:
 - a. 26 ga. Galvanized steel with factory Kynar finish in color selected by Owner from manufacturer standard colors.
 - G. Downspout Leaders:
 - 1. Fabricate from the following materials:
 - a. 26 ga. Galvanized steel with factory Kynar finish in color selected by Owner from manufacturer standard colors.
- 2.06 AT NEW METAL ROOF AND WALL PANEL SYSTEMS
- A. Provide trim, flashings, closures, fasteners, and accessories needed for a complete weathertight Metal Roof Panel assembly. Coordinate with the requirements and recommendations of specified roof system manufacturer.
 - B. Fabricate from the following materials:
 - 1. Minimum 26 ga. Galvanized steel with factory Kynar finish in color selected by Owner from manufacturer standard colors. Provide heavier gage in accordance with Metal Roof System manufacturer.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, substrate, and other conditions affecting performance of the Work.
 - 1. Verify compliance with requirements for installation tolerances of substrates.
 - 2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION, GENERAL

- A. General: Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement. Use fasteners, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
 - 1. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of welds, and sealant.
 - 2. Install sheet metal flashing and trim to fit substrates and to result in watertight performance. Verify shapes and dimensions of surfaces to be covered before fabricating sheet metal.
 - 3. Install continuous cleats spaced not more than 1-inch apart. Anchor each cleat with fasteners through the vertical leg face at 12-inches on center.
 - 4. Install exposed sheet metal flashing and trim without excessive oil canning, and free of buckling and tool marks.
 - 5. Cut sheet metal with snips to provide clean edge cuts. Do not grind or abrade metal for cuts.
 - 6. Do not use graphite pencils to mark metal surfaces.
- B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.
 - 1. Provide underlayment/separation sheet to protect metal from corrosion/galvanic action due to miscellaneous rough carpentry products.
 - a. Mid-States "Quick-Stick" HT, W R Grace "Ice & Water Shield HT".
- C. Bed flanges in approved sealant where required for waterproof performance.
- D. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at maximum of 10-feet with no joints allowed within 24-inches of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently watertight, form expansion joints of intermeshing hooked flanges not less than 1-inch deep, filled with elastomeric sealant concealed within the joints.

- E. Fasteners: Use fastener sizes that penetrate wood blocking or sheathing not less than 1-1/2-inches for wood screws
 - 1. Galvanized or Aluminum-Zinc Alloy-coated steel: Use stainless-steel fasteners
 - 2. Stainless Steel: Use stainless steel fasteners.
- F. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.
- G. Seal joints as required for watertight construction.
 - 1. Use sealant-filled joints unless otherwise indicated. Embed hooked flanges of joint members not less than 1-inch into sealant. Form joints to completely conceal sealant. When ambient temperature at time of installation is between 40 and 70 deg F (4 and 21 deg C), set joint members for 50 percent movement each way. Adjust setting proportionately for installation at higher ambient temperatures. Do not install sealant-type joints at temperatures below 40 deg F (4 deg C).
 - 2. Prepare joints and apply sealants to comply with requirements in Section 079200 "Joint Sealants."

3.03 ROOF FLASHING INSTALLATION

- A. General: Install sheet metal flashing and trim to comply with performance requirements, NRCA's "Roofing and Waterproofing Manual" and "SMACNA's Manual." Provide concealed fasteners where possible, and set units true to line, levels, and slopes. Install work with laps, joints, and seams that are permanently watertight and weather resistant.
- B. Copings: Anchor to resist uplift and outward forces according to recommendations in cited sheet metal standard unless otherwise indicated.
 - 1. Inter-lock exterior bottom edge of coping with continuous cleat anchored to substrate at 12-inch centers.
 - 2. Anchor interior leg of coping with washers and screw fasteners at 16-inch centers.
- C. Counter-flashing: Coordinate installation of counter-flashing with installation of base flashing. Insert counter-flashing in reglets or receivers and fit tightly to base flashing. Extend counter-flashing 4-inches over base flashing. Lap counter-flashing joints minimum of 4-inches. Secure in waterproof manner by means of snap-in installation and sealant or lead wedges and sealant; interlocking folded seam or blind rivets and sealant as indicated.

3.04 WALL FLASHING INSTALLATION

- A. General: Install sheet metal wall flashing to intercept and exclude penetrating moisture according to SMACNA sheet metal standards unless a more stringent requirement has been provided for this project. Coordinate installation of wall flashing with any wall transitions and wall-openings such as at windows, doors, miscellaneous penetrations and louvers.

3.05 INSTALLATION TOLERANCES

- A. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerance of 1/4-inch in 20-feet on slope and location lines indicated on Drawings and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.06 CLEANING AND PROTECTION

- A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
- B. Clean off excess sealants.
- C. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturers written installation instructions. On completion of sheet metal flashing and trim installation, remove unused materials and clean finished surfaces as recommended by sheet metal flashing and trim manufacturer. Maintain sheet metal flashing and trim in clean condition during construction.
- D. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION

SECTION 07 9200

JOINT SEALANTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Project diagrams, key plans, and general provisions of the Contract, including General and Supplementary Conditions and Division 01-48 Specification Sections, apply to this Section.

1.02 SECTION INCLUDES

- A. Materials for use on this project where sealant, or caulk has been specified.
 - 1. Non-sag gunnable joint sealants.
 - 2. Sealant tape.
 - 3. Joint backings and accessories.
- B. Where new sealants or caulk are in direct contact with new roof membrane, refer to new roof system specification section provided.
- C. Where new sealants or caulk are in direct contact with existing roof membrane currently under warranty, refer to existing warranted roof system manufacturers recommendations for sealants and caulk.
- D. Where new sealants or caulk are in direct contact with existing roof membrane not currently under warranty, utilize sealants specified in this section.

1.03 COORDINATION

- A. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials, prior to installation of new sealant.
- B. Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials, joints, and seams to provide leak-proof, secure, and noncorrosive installation, prior to installation of new sealant.
- C. Coordinate new sealant with all existing substrates including adjoining roof and wall materials, seams, transitions, and joints, prior to installation of new sealant.

1.04 QUALITY ASSURANCE

- A. Maintain one copy of each referenced document covering installation requirements on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Field Quality Control:
 - 1. Contractor to provide pre-installation adhesion test.

2. Contractor to provide visual inspection of entire length of sealant joints during installation.
3. Contractor to provide field adhesion testing of sealant joints when requested by Consultant or Owner.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Non-sag Sealants: Permits application in joints on vertical surfaces without sagging or slumping.
 1. Dow Corning Corporation: www.dowcorning.com/construction.
 2. Pecora Corporation: www.pecora.com.
 3. Tremco Global Sealants: www.tremcosealants.com.
 4. Sika Corporation: www.usa-sika.com.

2.02 JOINT SEALANT APPLICATIONS

- A. Scope:
 1. Roof System Flashing Conditions: In roof system work areas included in project, install new sealants in accordance with project summary of work, project technical specifications, project diagrams, and applicable manufacturer requirements.

2.03 NON-SAG JOINT SEALANTS

- A. Sealant Type 1 - Non-Staining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic.
 1. For use on metal, concrete, stone, glass and other manufacturer approved substrates. Not for use in contact with roof membranes.
 2. Movement Capability: Plus and minus 50 percent, minimum.
 3. Non-Staining To Porous Stone: Non-staining to light-colored natural stone when tested in accordance with ASTM C1248.
 4. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants.
 5. Hardness Range: 15 to 35, Shore A, when tested in accordance with ASTM C661.
 6. Color: To be selected by Consultant from manufacturer's standard range.
 7. Cure Type: Single-component, neutral moisture curing.
 8. Service Temperature Range: Minus 65 to 180 degrees F (Minus 54 to 82 degrees C).
 9. Products: Basis of Design is products manufactured by Dow Corning Corporation.
 - a. Dow Corning Corporation; 790 Silicone Building Sealant: www.dowcorning.com/construction.
 - b. Dow Corning Corporation; 795 Silicone Building Sealant: www.dowcorning.com/construction.

- B. Sealant Type 2 - Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multicomponent; not expected to withstand continuous water immersion or traffic.
 - 1. For use in direct contact with roof membranes. At new roof system installations, coordinate with recommendations of new roof membrane system manufacturer.
 - 2. Movement Capability: Plus and minus 25 percent, minimum.
 - 3. Hardness Range: 20 to 35, Shore A, when tested in accordance with ASTM C661.
 - 4. Color: To be selected by Consultant from manufacturer's standard range.
 - 5. Service Temperature Range: Minus 40 to 180 degrees F (Minus 40 to 82 degrees C).
 - 6. Products:
 - a. Sika Corporation; Sikaflex-1a: www.usa-sika.com.
 - b. Sonneborn NP-1..
- C. Sealant Type 3 - Butyl Sealant: One-part gun grade caulking, sealing and glazing compound formulated from virgin butyl rubber and designed to adhere to all types of masonry, steel, aluminum, glass, wood and other common construction materials. Meets requirements of ASTM C-1311 (+/- 7.5% joint movement).
 - 1. Basis of Design is Pecora BC-158 manufactured by Pecora Corporation.
 - 2. Refer to Project Diagrams and Specifications for specific applications.
- D. Sealant Type 4 - Butyl Sealant Tape: Isobutylene-Isoprene Copolymer tape designed to adhere to all types of masonry, steel, aluminum, glass, wood and other common construction materials. Meets requirements of ASTM C-1311 (+/- 7.5% joint movement).
 - 1. Basis of Design is SikaLastomer 65 manufactured by Sika Corporation.
 - 2. Refer to Project Diagrams and Specifications for use.

2.04 ACCESSORIES

- A. Backer Rod: Cylindrical cellular foam rod with surface that sealant will not adhere to, compatible with specific sealant used, and recommended by backing and sealant manufacturers for specific application.
 - 1. Closed Cell: 25 to 33 percent larger in diameter than joint width.
- B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.
- C. Masking Tape: Self-adhesive, nonabsorbent, non-staining, removable without adhesive residue, and compatible with surfaces adjacent to joints and sealants.
- D. Joint Cleaner: Non-corrosive and non-staining type, type recommended by sealant manufacturer; compatible with joint forming materials.
- E. Primers: Type recommended by sealant manufacturer to suit application; non-staining.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that joints are ready to receive work.
- B. Verify that backing materials are compatible with sealants.
- C. Verify that backer rods are of the correct size.

3.02 PREPARATION

- A. Remove loose materials and foreign matter that could impair adhesion of sealant.
- B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

3.03 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Utilize tape to provide a perimeter boundary for joint sealant installation. Ensure tape used does not damage or alter the appearance of substrates that tape is installed over.
- C. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface bond area as recommended by manufacturer, except where specific dimensions are indicated.
 - 1. Install joint sealant backing materials (i.e. backer rod, etc) at joints greater than 1/8-inch in width and depth. Coordinate with sealant manufacturer requirements.
 - 2. Install bond breaker backing tape where backer rod cannot be used.
- D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
- E. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.
- F. Non-sag Sealants: Tool surface concave, unless otherwise indicated; remove joint sealant boundary masking tape immediately after tooling sealant surface.

3.04 FIELD QUALITY CONTROL

- A. Non-Destructive Adhesion Testing: If there are any failures, notify Consultant and Owner immediately.
- B. Remove and replace failed portions of sealants using same materials and procedures as indicated for original installation.

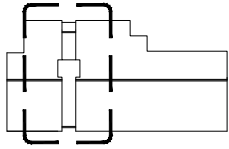
END OF SECTION



PROJECT DIAGRAMS

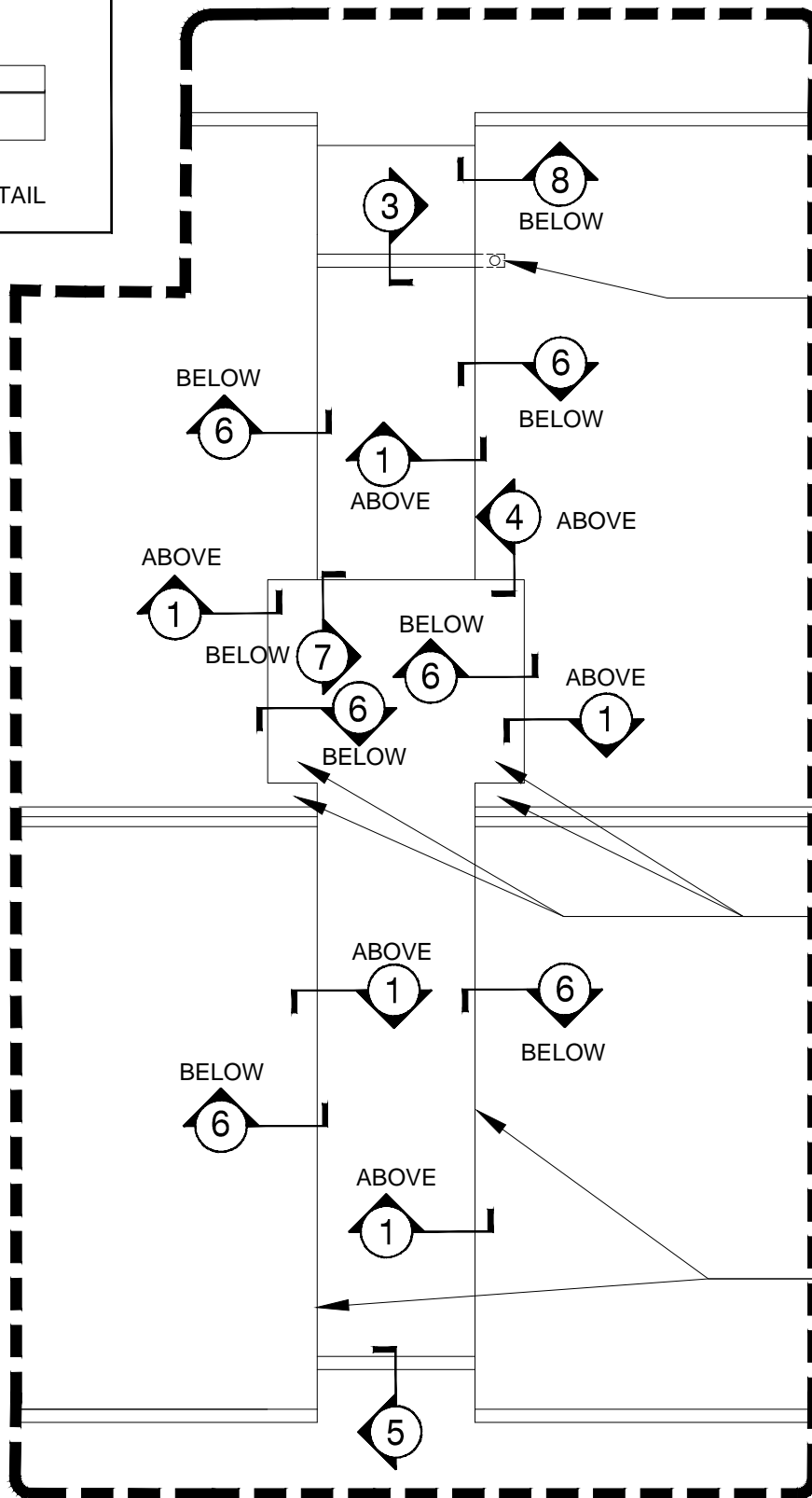
PEACH COUNTY HEALTH DEPARTMENT ROOF PROJECT

FORT VALLEY, GEORGIA



AREA OF DETAIL

NORTH ↑



GUTTER AND INTERNAL PLUMBING REMAINS, CLEAN PRIME AND STRIP DISCHARGE PIPE TO GUTTER WITH SPECIFIED MOISTURE TRIGGER CURED URETHANE AND GLASS MESH

INSTALL ONE PIECE WELDED ALUMINUM OR STAINLESS STEEL TRANSITION FLASHING AT BOTH SPECIAL VALLEY CONDITIONS

INSTALL NEW METAL WALL PANELS AT ALL WALLS BETWEEN THE TWO ROOF LEVELS ON BOTH SIDES

**PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT**

KEY PLAN 2

PROJECT #:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE

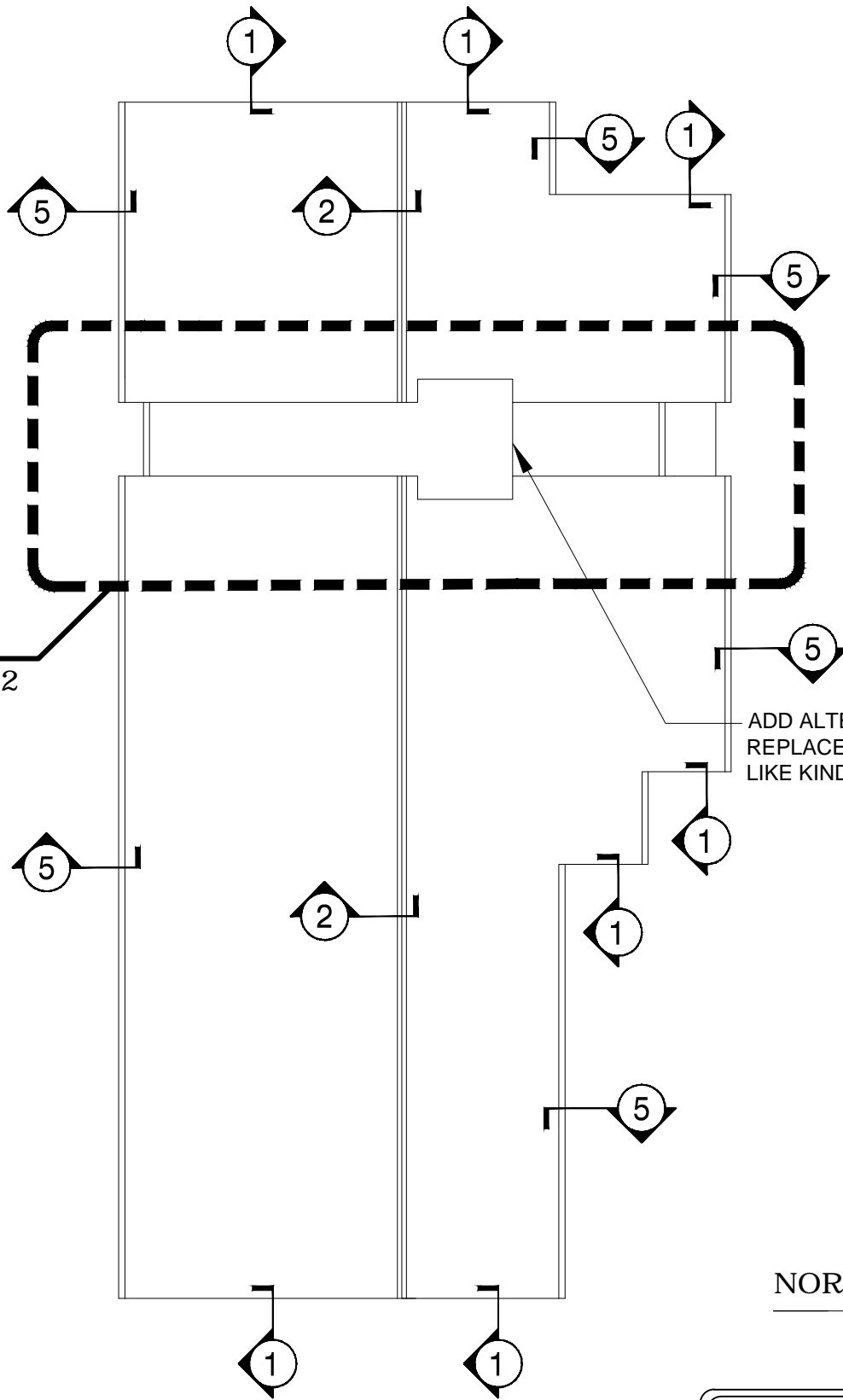


KEY PLANS

DIAGRAMS

2

9



REFER TO
KEY PLAN 2

ADD ALTERNATE #1
REPLACE WINDOW IN
LIKE KIND

NORTH
→


PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT

KEY PLAN 1

PROJECT#:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE

 A Georgia Corporation	
KEY PLANS	DIAGRAMS
2	9

#12-14 X 1 1/4" TEK2 ZAC
FASTENERS
(SEE PATTERN #2 ON
PAGE B-1)

1/4-14 X 1 1/4" HWH TEK2
FASTENER (@ EACH ROOF
STRUCTURAL MEMBER)

RAKE ANGLE

WALL FASTENER
(SEE PATTERN #1
ON PAGE PAGE B-1)

RAKE TRIM

1/4-14 X 7/8" LAP TEK
FASTENER W/ WASHER
(@ MAJOR RIB)

OUTSIDE CLOSURE
(RECOMMENDED)

WALL PANEL

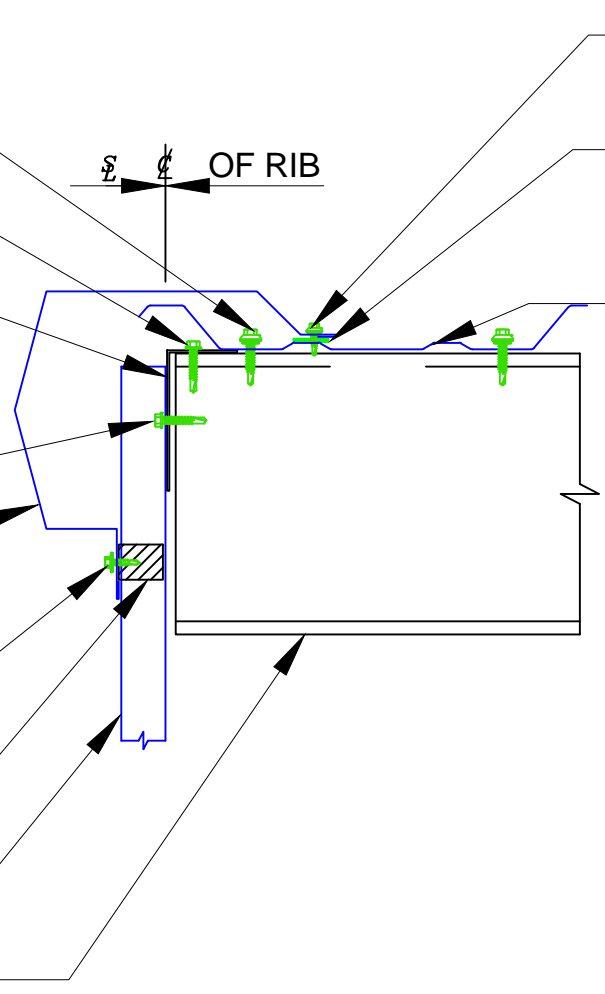
ROOF STRUCTURAL
MEMBER

OF RIB

1/4-14 X 7/8" LAP TEK ZAC
FASTENER (@ 1'-0" O.C.)

1" ROLL TAPE
SEALANT (CONT. ALONG
LENGTH OF RAKE)

MULTI-RIB / R-PANEL
ROOF PANEL




**PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT**

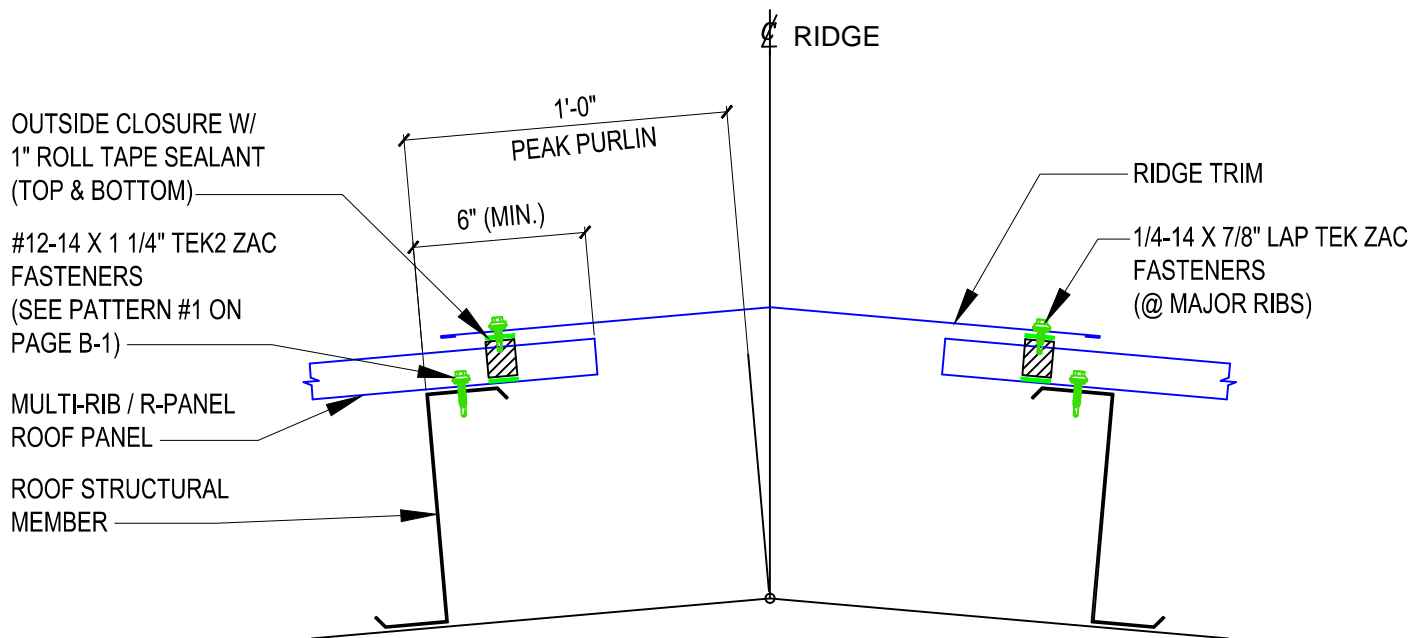
**DETAIL 1
RAKE TRIM**

PROJECT #:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE

	
2	9




**PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT**

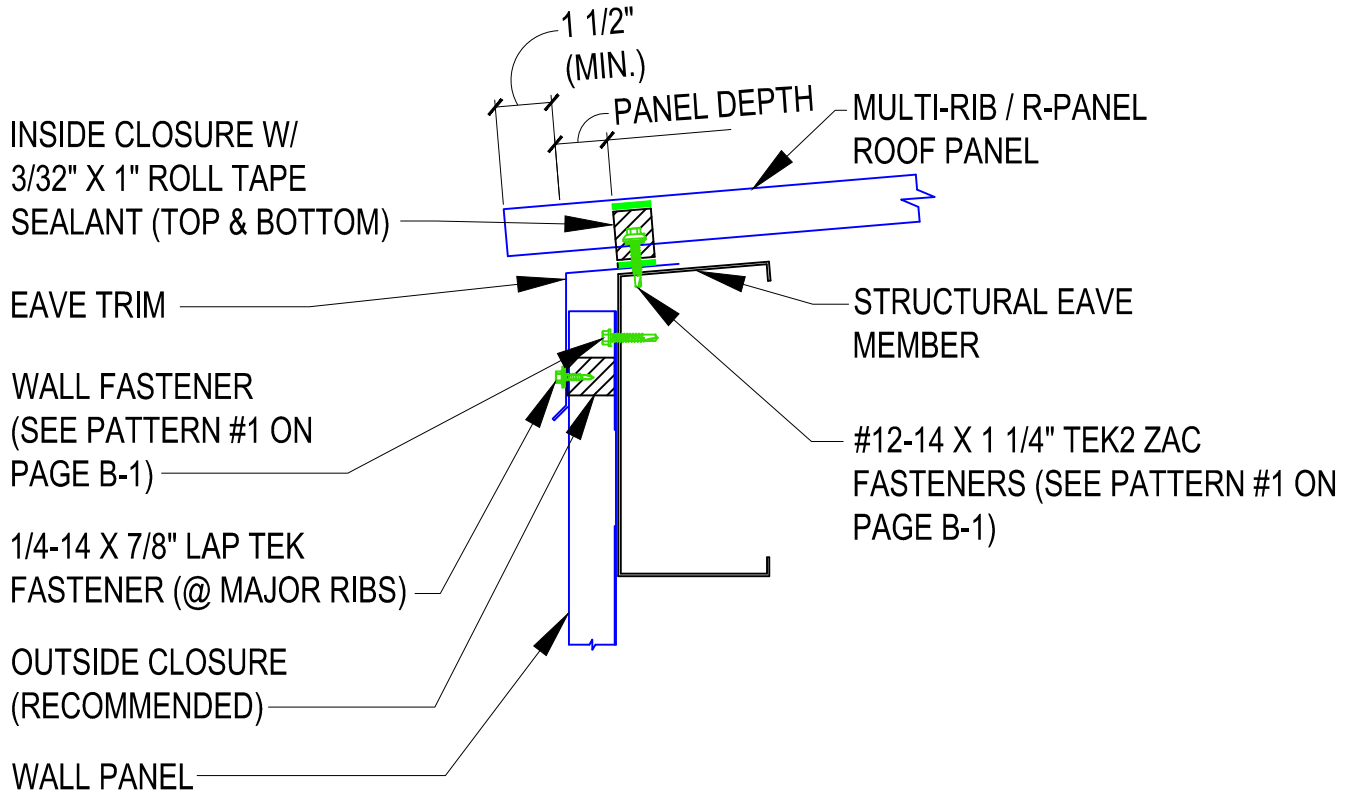
**DETAIL 2
RIDGE CAP**

PROJECT #:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE

 <p>TEDIFICE CONSULTING, INC. A Georgia Corporation</p>	
2	9




**PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT**

**DETAIL 3
EAVE WITHOUT GUTTER**

PROJECT #:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE

 <p>TEDIFICE CONSULTING, INC. A Georgia Corporation</p>	
KEY PLANS	DIAGRAMS
2	9

OUTSIDE CLOSURE W/
1" ROLL TAPE SEALANT
(TOP & BOTTOM)

MULTI-RIB / R-PANEL
ROOF PANEL

EAVE STRUCTURAL
MEMBER

1/4-14 X 7/8" LAP TEK ZAC
FASTENERS (@ MAJOR RIBS)

#12-14 X 1 1/4" TEK2 ZAC
FASTENERS
(SEE PATTERN #1 ON PAGE B-1)

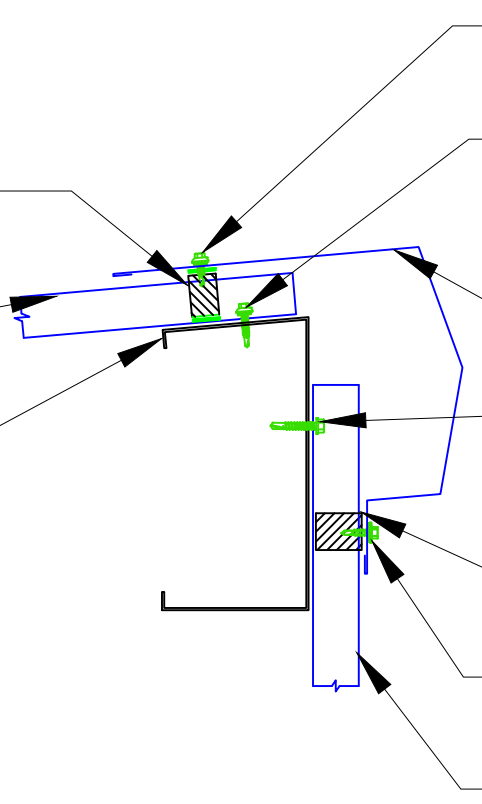
HIGH SIDE
EAVE TRIM

WALL FASTENER
(SEE PATTERN #1
ON PAGE B-1)

OUTSIDE CLOSURE
(RECOMMENDED)

1/4-14 X 7/8" LAP TEK
FASTENERS (@ MAJOR RIBS)

WALL PANEL




**PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT**

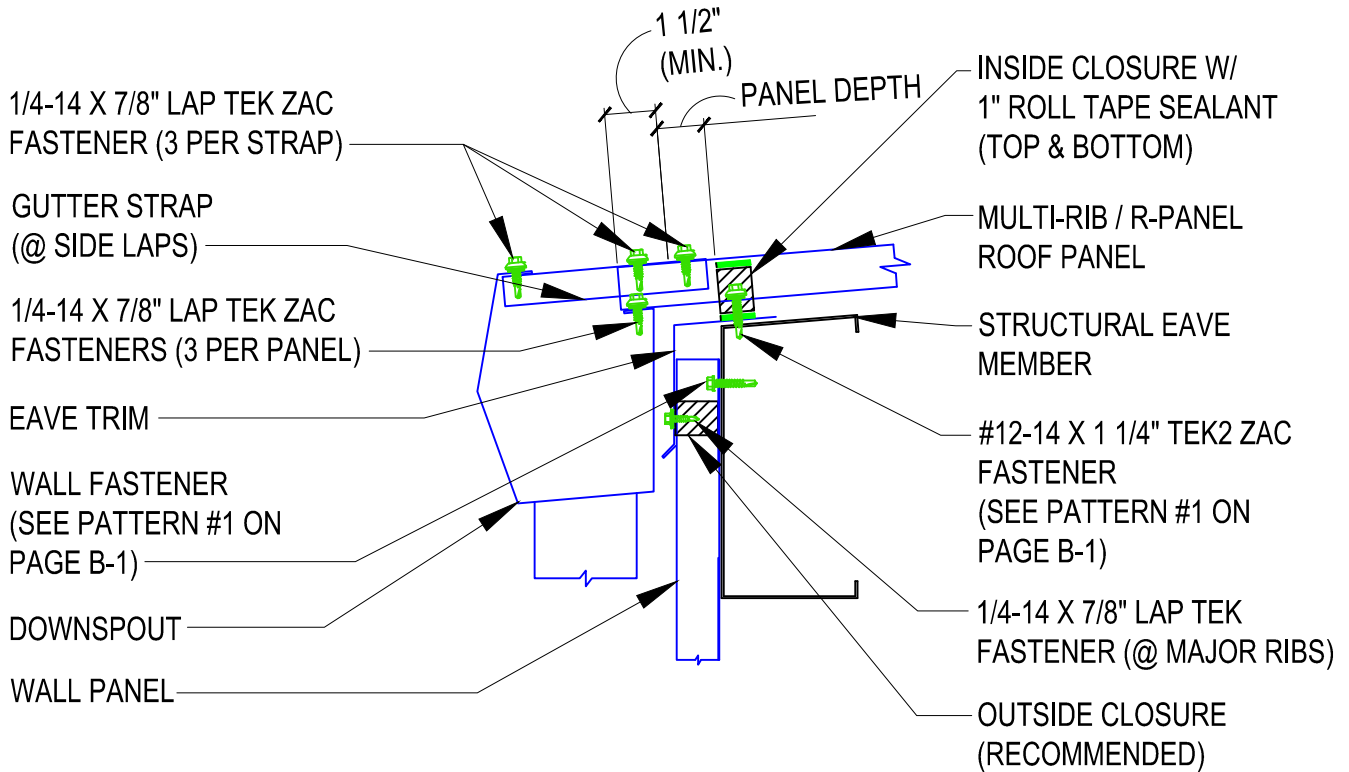
**DETAIL 4
HIGH EAVE CLOSURE**

PROJECT #:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE

 TEDIFICE CONSULTING, INC. <small>A Georgia Corporation</small>	
KEY PLANS	DIAGRAMS
2	9



**PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT**

**DETAIL 5
EAVE WITH GUTTER**

PROJECT #:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE

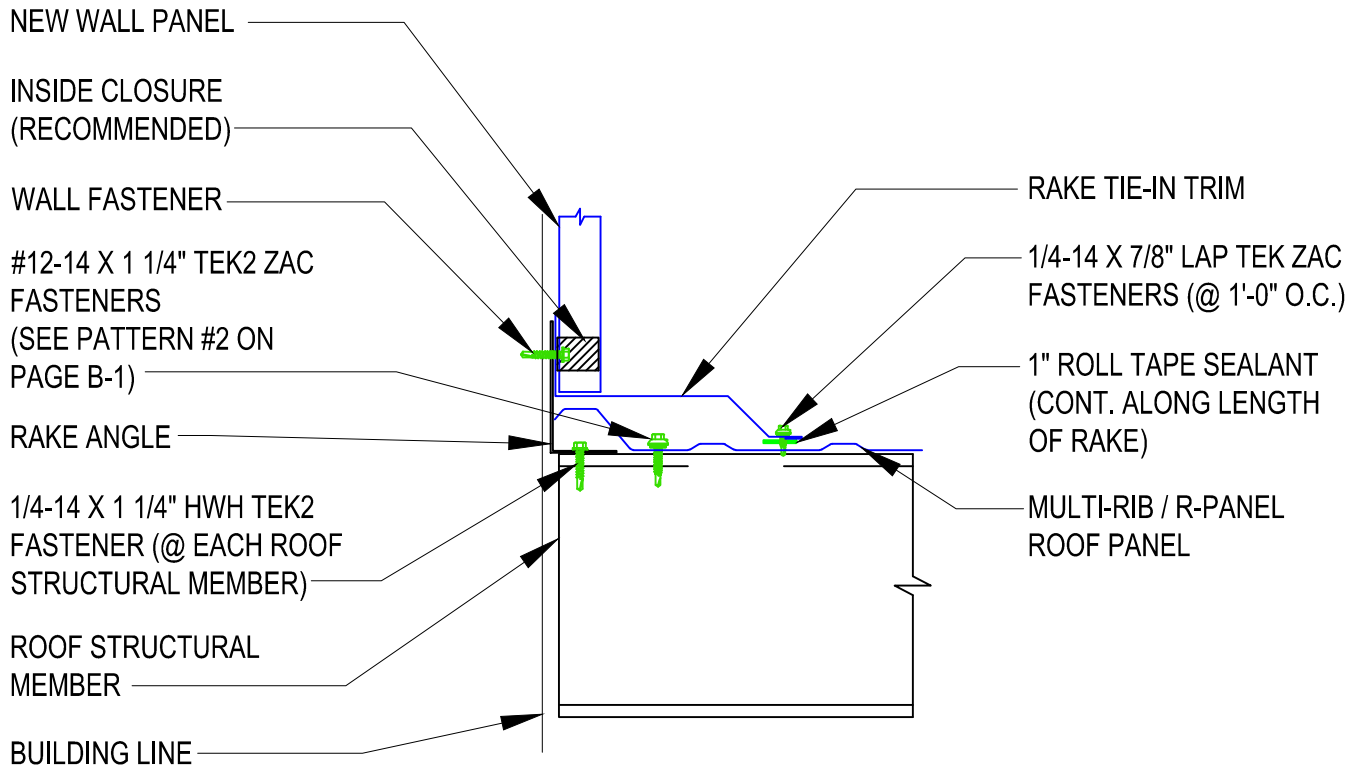


KEY PLANS

DIAGRAMS

2

9



**PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT**

**DETAIL 6
RAKE TRIM AT WALL PANELS**

PROJECT #:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE



KEY PLANS

DIAGRAMS

2

9

1/4-14 X 7/8" LAP TEK ZAC
FASTENER (@ MAJOR RIBS)

HIGH SIDE TIE-IN TRIM

OUTSIDE CLOSURE W/
1" ROLL TAPE SEALANT
(TOP & BOTTOM)

MULTI-RIB / R-PANEL
ROOF PANEL

ROOF STRUCTURAL
MEMBER

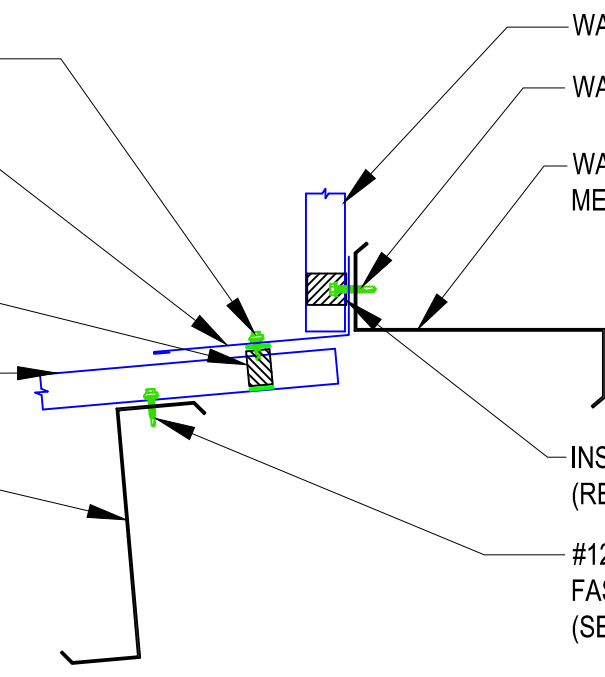
WALL PANEL

WALL FASTENER

WALL STRUCTURAL
MEMBER

INSIDE CLOSURE
(RECOMMENDED)

#12-14 X 1 1/4" TEK2 ZAC
FASTENER
(SEE PATTERN #1 ON PAGE B-1)



**PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT**

**DETAIL 7
HIGH SIDE CLOSURE AT WALL PANELS**

PROJECT #:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE

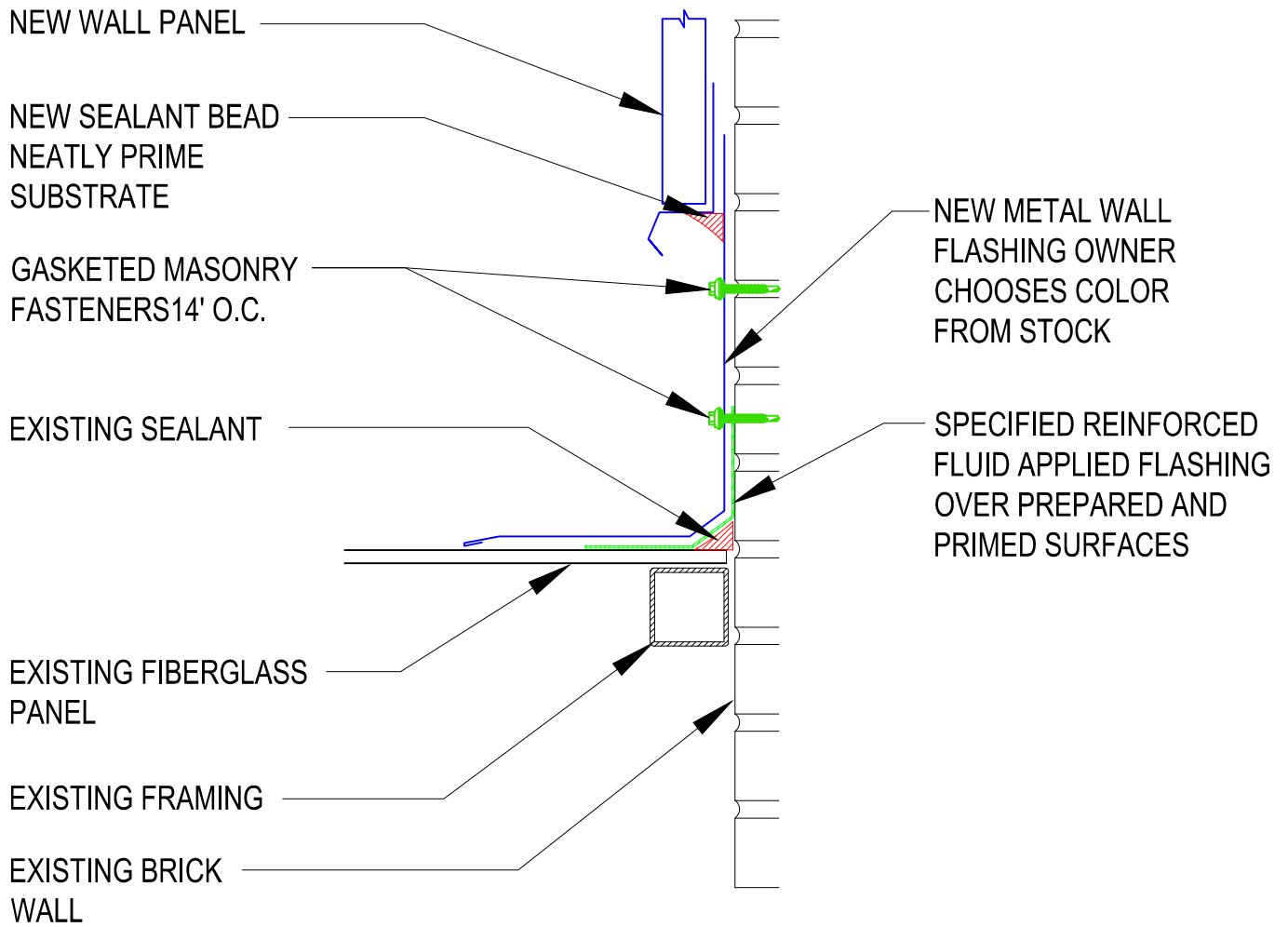


KEY PLANS

DIAGRAMS

2

9



**PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT**

**DETAIL 8
HIGH SIDE CLOSURE AT WALL PANELS**

PROJECT #:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE

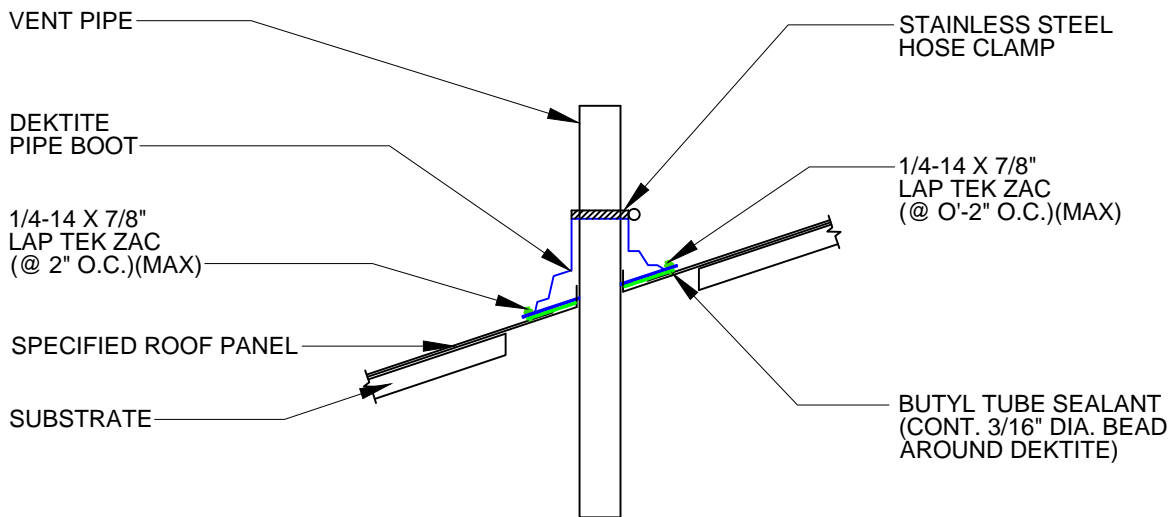


KEY PLANS

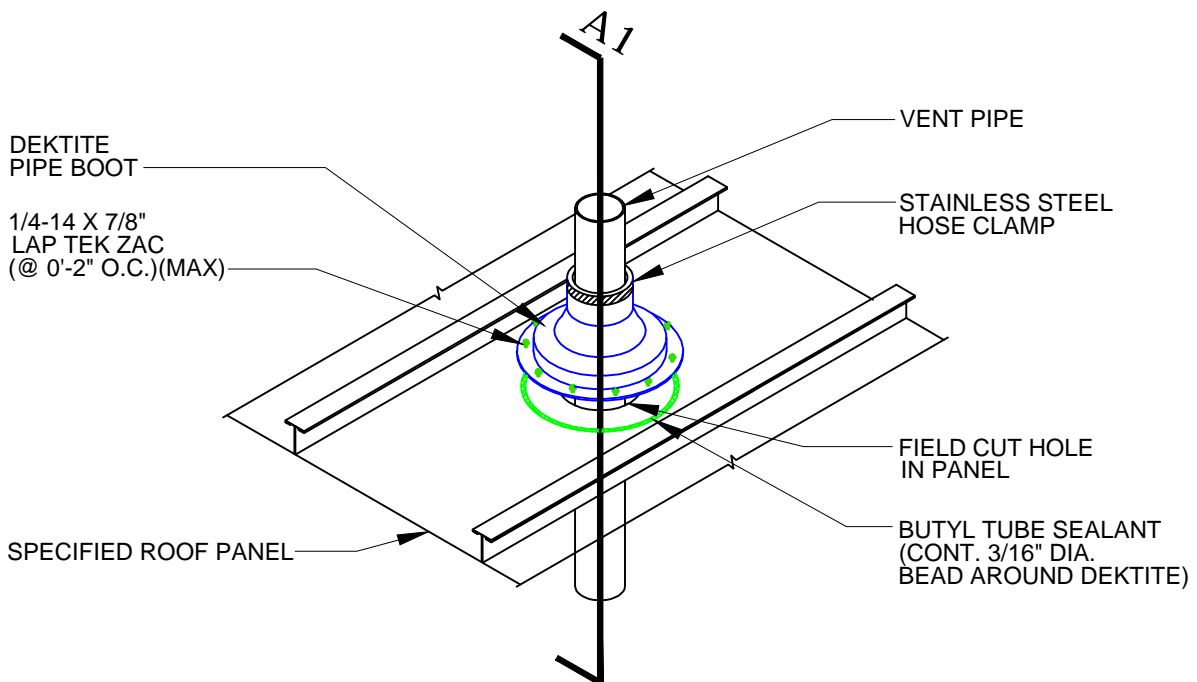
DIAGRAMS

2

9



SECTION A1



1. CUT HOLE IN PANEL 1" LARGER THAN PIPE DIAMETER. IF INSTALLING OVER A SOLID SUBSTRATE OVER-CUT HOLE IN SUBSTRATE SO FASTENER DO NOT PIN SYSTEM FOR THERMAL MOVEMENT.
2. CUT HOLE IN TOP OF DEKTITE BOOT SO THAT IT FITS SNUGGLY AROUND PIPE. APPLY A 3/16" DIA BEAD OF TUBE BUTYL SEALANT AROUND THE BASE FLANGE OF BOOT. SECURE TO PANEL WITH 1/4"-14 X 7/8" LAP TEK ZAC FASTENERS 2" O.C.
3. DEKTITE BOOT MUST FIT IN PAN OF PANEL. DO NOT FASTEN TO STANDING SEAM.

**PEACH COUNTY HEALTH DEPARTMENT
ROOF PROJECT**

**DETAIL A
VENT PIPE FLASHING**

PROJECT #:
20PCGJ07RF241

DATE:
3 FEB 2021

SCALE:
NOT TO SCALE



KEY PLANS

DIAGRAMS

2

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EXHIBIT A
NEW VENDOR PACKET

Appendix A Peach County Forms

Submit the following completed documents with the Response packages. **Responses not containing the following completed documents will be considered “non-responsive” and may be rejected for consideration:**

- Response Form (completed and signed)
- Certification by Contractor, Non-Segregated Facilities (Signed and Dated)
- Certification by Contractor, Drug-Free Workplace Act (Signed and Dated)
- Non-Collusion Affidavit or Prime Contractor (Signed, notarized, and dated)
- Conflict of Interest Certification (Signed and Dated)
- Vendor Information Sheet (Completed, Signed and Dated)
- Form W9 (Taxpayer Identification Number)
- SAVE Affidavit (all contractors, or vendors) (Signed, notarized, and dated)
- Sub-Contractor E-Verify Affidavit (all contractors, subcontractors or vendors that are not sole proprietors with zero employees) (Signed, notarized, and dated)
- Insurance Certificate(s) verifying required insurance:
 - Certificate of Liability Insurance
 - Certificate of Workers Compensation Insurance
 - Certificate of Automobile Liability Insurance
- Sole Proprietor Contractor Affidavit (only contractors or vendors with no employees) (Signed, notarized, and dated)
- Photo Identification (only if vendor or contractor is a Sole Proprietor)(see attached list of acceptable documents)
- Addendum acknowledgement initialed by Contractor if applicable

CERTIFICATION BY CONTRACTOR

Regarding: NON-SEGREGATED FACILITIES

The **Contractor** certifies that he does not, and will not, provide and maintain segregated facilities for his employees at his establishments and, further that he does not, and will not, permit his employees to perform their services at those locations, under his control, where segregated facilities are provided and maintained. Segregated facilities include, but are not necessarily limited to, drinking fountains, transportation, parking, entertainment, recreation, and housing facilities; waiting, rest, wash, dressing, and locker rooms, and time clock, **Work**, storage, restaurant, and other eating areas which are set apart in fact, or by explicit directive, habit, local custom, or otherwise, on the basis of color, creed, national origin, and race. The **Contractor** agrees that, except where he has obtained identical certifications from proposed subcontractor for specific time periods, he will obtain identical certifications from proposed subcontractor prior to the award of subcontracts exceeding \$10,000.00 which are not exempt from the provisions of the Equal Opportunity clause, and that he will retain such certifications in his files.

The **Contractor** agrees that a breach of this certification is a violation of the Equal Opportunity clause in this Contract. The penalty for making false statements is prescribed in 18 U.S.C. 1001.

Contractor (Print)

(Signature)

Name of Signer (Print)

Title of Signer

Date

CERTIFICATION BY CONTRACTOR

Regarding: Drug-Free Workplace Act

The Contractor certifies that provisions of Sections 50-24-1 through 50-24-6 of the Official Code of Georgia annotated, relating to the “Drug-Free Workplace Act” have been, and will be, complied with in full. Including compliance by sub-contractors performing work under this agreement.

Contractor (Print)

(Signature)

Name of Signer (Print)

Title of Signer

Date

NON-COLLUSION AFFIDAVIT OF PRIME CONTRACTOR

State of _____, County of _____

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

1. He/She is _____ (Owner, Partner, Officer, Representative, or Agent) of the **Contractor** that has submitted the attached **Bid**;
2. He/She is fully informed respecting the preparation and contents of the attached **Bid** and of all pertinent circumstances respecting such **bid**;
3. Such **Bid** is genuine and is not a collusive or sham **Bid**;
4. Neither the said **Contractor** nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other **Contractor**, firm or person to submit a collusive or sham **Bid** in connection with the Contract for which the attached **Bid** has been submitted to or refrain from Proposing in connection with such Contract, or has in any collusion or communication or conference with any other **Contractor**, firm or person to fix the price or prices in the attached **Bid** or of any other **Contractor**, or to fix any overhead, profit or cost element of the **Bid** price or the **Bid** price of any other **Contractor**, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against Peach County or any person interested in the proposed Contract; and,
5. The price or prices bid in the attached **Bid** are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the **Contractor** or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Signature _____

Name (Print) _____

Title (Print) _____

Subscribed and sworn to before me

This _____ day of _____ 20__

_____ (SEAL)

Title

CONFLICT OF INTEREST CERTIFICATION

By signing and submitting this Bid I hereby certify that employees of this company or employees of any company supplying material or subcontracting to do **Work** on this Contract will not engage in business ventures with employees of Peach County or Peach County Consultants nor shall they provide gifts, gratuities, favors, entertainment, loans, or other items of value to employees of Peach County.

Also, by signing and submitting this Contract, I hereby certify that I will notify Peach County through its Director of Public Works of any business ventures entered into between employees of this company or employees of any company supplying material or subcontracting to do **Work** on this Contract with a family member of Peach County employees.

Contractor

(Signature)

Name of Signer

Title of Signer

Date



213 Persons Street
 Fort Valley, Georgia 31030
 P: 478-825-2535 F: 478-825-2678
www.peachcounty.net

We grow everything sweeter!™

Board of Commissioners

Meetings Second Tuesday

Martin H. Moseley, Jr.
Chairman

Betty C. Hill
Vice-Chairman

Shanita D. Bryant

Roy Lewis

Wade Yoder

Michaela Jones
County Administrator

April H. Hodges
Assistant County Administrator/
County Clerk

County Officials

Kim Wilson
Probate Judge

Joe Wilder
Clerk of Superior Court

Terry Deese
Sheriff

W. L. Brown
Tax Commissioner

Kerry Rooks
Coroner

Laurens C. Lee
Magistrate

Greetings Prospective Supplier/Vendor,

Georgia law has made it mandatory that all private employers enroll in and use the federal E-Verify system, not only public contractors (including sub-contractors and sub-sub-contractors) providing labor to public project(s), but also those companies providing services of any kind over \$2,499.99 in value, regardless of the number of employees a contractor has. This expands the E-Verify requirement to lots of small businesses that have contracts to perform labor or services with our county. A contractor or sub-contractor may be exempt from this requirement if the contractor or sub-contractor has NO employees and does not hire nor intend to hire employees for the purpose of completing any part of the public contract.

E-Verify is a federal database that can be used to verify that an employee is authorized to work in the United States. The SAVE (Systematic Alien Verification for Entitlements Affidavit) program determines that immigration status of any person that receives a public benefit. The State of Georgia has determined that a public benefit is any contract, business license, occupational tax certificate, alcohol license, taxi permit, pawnbroker's license, billiard room license, precious metals/gems dealer's license, flea market license or insurance company license.

In keeping with compliance, we ask that you provide the following forms to do business with our agency:

- New Supplier/Vendor Information Sheet (ALL CONTRACTORS SUBMIT THIS FORM)
- Form W-9 (Taxpayer Identification Number) (ALL CONTRACTORS SUBMIT THIS FORM)
- E-Verify Affidavit (ANY CONTRACTOR PROVIDING GOODS AND LABOR/SERVICE)
- SAVE Affidavit (ANY CONTRACTOR RECEIVING PUBLIC BENEFIT OR THAT PROVIDES GOODS)
- Sub-contractor Affidavit (ANY SUB-CONTRACTOR PROVIDING GOODS AND LABOR/SERVICES)
- Certificate of Liability Insurance (ANY CONTRACTOR WHO DOES WORK ON OUR PROPERTY)
 - Minimum Liability Insurance: \$2,000,000 aggregate, \$1,000,000 per occurrence
 - Minimum Automobile Liability Insurance: \$2,000,000 aggregate, \$1,000,000 per occurrence
 - Minimum Workers Compensation Insurance: \$500,000
- Sole Proprietor Contractor Affidavit (ONLY USE IF YOU HAVE NO EMPLOYEES)
- Photo Identification (PROVIDE ONLY IF A SOLE PROPRIETOR. SEE ATTACHED LIST OF ACCEPTABLE DOCUMENTS).
- Private Employer Exemption (USE ONLY IF SOLE PROPRIETOR)

Please note that some of the forms require notarization and will be considered incomplete and not processed. You may return the forms properly completed by fax, e-mail, US Postal Service or drop it off at our office: Peach County Board of Commissioners Purchasing Office, 213 Persons Street, Fort Valley, GA 31030. If you need to register for the E-Verify program, go to www.uscis.gov and follow the instructions. If you have any questions about E-Verify or any of these forms, please call the office.

Peach County Purchasing Office

NEW VENDOR / SUPPLIER INFORMATION

COMPANY NAME: _____

CONTACT PERSON: _____ TITLE: _____

BUSINESS ADDRESS: _____

PHONE: _____ FAX: _____

EMAIL: _____

TYPE OF BUSINESS. (PLEASE CHECK ONE)

- CORPORATION
- PARTNERSHIP
- SOLE PROPRIETOR

Have you done business with Peach County in the past? (PLEASE CHECK ONE)

- YES
- NO

Do you participate in the E-Verify Program? (PLEASE CHECK ONE)

- YES
- NO

Do you have a Federal Tax ID number? (PLEASE CHECK ONE)

- YES
- NO

The information contained in this document is true to the best of my knowledge and I understand that giving false, misleading or deceptive information is considered unlawful and may be punishable by penalties of prosecution based on Georgia Law.

Signature

Date

Request for Taxpayer Identification Number and Certification

**Give Form to the
requester. Do not
send to the IRS.**

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	<p>1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.</p>	
	<p>2 Business name/disregarded entity name, if different from above</p>	
	<p>3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.</p> <p><input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate</p> <p><input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____</p> <p>Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.</p> <p><input type="checkbox"/> Other (see instructions) ▶ _____</p>	<p>4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):</p> <p>Exempt payee code (if any) _____</p> <p>Exemption from FATCA reporting code (if any) _____</p> <p><small>(Applies to accounts maintained outside the U.S.)</small></p>
	<p>5 Address (number, street, and apt. or suite no.) See instructions.</p>	<p>Requester's name and address (optional)</p>
	<p>6 City, state, and ZIP code</p>	
	<p>7 List account number(s) here (optional)</p>	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number									
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; border: 1px solid black; height: 20px;"></td> <td style="width: 5%; text-align: center;">-</td> <td style="width: 25%; border: 1px solid black; height: 20px;"></td> <td style="width: 5%; text-align: center;">-</td> <td style="width: 40%; border: 1px solid black; height: 20px;"></td> </tr> </table>		-		-					
	-		-						
or									
Employer identification number									
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Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	<p>Signature of U.S. person ▶ _____</p>	<p>Date ▶ _____</p>
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.

Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)

CONTRACTOR E-VERIFY AFFIDAVIT

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of PEACH COUNTY BOARD OF COMMISSIONERS has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Name of Contractor

Name of Project

Name of Public Employer

I hereby declare under penalty of perjury that the foregoing is true and correct. Executed on __, ____, 201__ in_
_____(city), _____(state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS _____ DAY OF _____, 20__.

NOTARY PUBLIC

My Commission Expires:

**SAVE (SYSTEMATIC ALIEN VERIFICATION FOR
ENTITLEMENTS) PROGRAM AFFIDAVIT (O.C.G.A §S0- 36-1 (E)(2)**

**AFFIDAVIT VERIFYING STATUS FOR PUBLIC BENEFIT
APPLICATION CONTRACTS**

Peach County, Georgia is authorized to enter into contracts pursuant to GA. Const. Art. IX, § III Par I; OCGA § 36-10-1 through §36-10-2.2; OCGA § 36-60-14; OCGA § 36-91-1. Prior to entering in to a contract with the PEACH COUNTY BOARD OF COMMISSIONERS, by executing this affidavit under oath, I, _____, on behalf of _____

Am Stating that:

1.) _____ I am a United States citizen.

2.) _____ I am a legal permanent resident of the United States.

OR

3.) _____ I am another wise qualified alien or non-immigrant under the Federal Immigration and Nationality Act and lawfully present in the United States.

The undersigned applicant also hereby verifies that he or she is 18 years of age or older and has provided at least one (1) secure and verifiable document as verification, as required by OCGA § 50-30-1(e)(1), with this affidavit. In making the above representation under oath, I understand that any person who knowingly and willfully makes a false, fictitious or fraudulent statement or representation in an affidavit shall be guilty of a violation of Code Section 16-10-20 of the Official Code of Georgia.

Signature of Employee

Date

Printed Name

Alien Registration Number (for non-citizens)

Type of secure and verifiable document provided
(i.e. driver's license, passport, etc.)

SUBSCRIBED AND SWORN BEFORE ME

ON THIS _____ DAY OF _____, 20____.

NOTARY PUBLIC

My Commission Expires:

**GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT
(OCGA 13-10-91) SUBCONTRACTOR E-VERIFY AFFIDAVIT**

SUB-CONTRACTOR' S NAME: _____

CONTRACTOR'S NAME: _____

By executing this affidavit, the undersigned Sub-Contractor verifies its compliance with OCGA § 13-10-91, stating affirmatively that the Sub-Contractor which is engaged in the physical performance of services under a contract with the Contractor identified above on behalf of PEACH COUNTY BOARD OF COMMISSIONERS has registered with and is participating in the E-Verify program in accordance with the applicability provisions and deadlines established in OCGA 13-10-91.

Federal Work Authorization User Identification Number
(4-6 digit number can be found on MOU)

Date of Authorization

Name of Project

I hereby declare under penalty of perjury that the foregoing is true and correct.
Executed on _____, _____, 20__ in _____ (city), _____ (state).

Signature of Authorized Officer or Agent

Print ed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS ____ DAY OF _____, 20__.

NOTARY PUBLIC

My Commission Expires:

SOLE PROPRIETOR EXEMPTION AFFIDAVIT

The undersigned sole proprietor of _____ verifies that they are exempt from compliance with O.C.G.A. § 36-60-6, stating affirmatively that the individual, firm, or corporation has no employees other than themselves and is not required to register with and/or utilize the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions.

In making this representation under oath, I understand that any person who knowingly and willfully makes a false, fictitious or fraudulent statement or representation in an affidavit shall be guilty of a violation of Code Section 16-10-20 of the Official Code of Georgia.

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, _____, 20____ in _____ (City), _____ (state).

Signature of Authorized Officer or Agent

Printed Name and Title of Authorized Officer or Agent

Type of secure and verifiable document provided
(Attach copy i.e. driver's license, passport, etc.)

SUBSCRIBED AND SWORN BEFORE ME
ON THIS _____ DAY OF _____, 20____.

NOTARY PUBLIC

My Commission Expires:

Private Employer Exemption Affidavit Pursuant to O.C.G.A. §36-60-6(d)

By executing this affidavit, the undersigned private employer verifies that it is exempt from compliance with O.C.G.A § 36-60-6. stating affirmatively that the individual, firm or corporation has NO employees that you are the sole proprietor of _____ and are not required to register with and/or utilize the federal work authorization program comm only known as E-Verify, or any subsequent replacement program. in accordance with the applicable provisions and deadlines established in O.C.G.A. § 36-60-6.

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____, _____, 20__ in _____(city) _____ (state).

Printed Name of Exempt Private Employer

Signature or Exempt Private Employer or
Authorized Officer or Agent

Printed Name and Title of Person Executing Affidavit

SUBSCRIBED AND SWORN BEFORE ME
ON THIS _____ DAY OF 20__.

NOTARY PUBLIC

My Commission Expires:

Secure and Verifiable Documents Under O.C.G.A. § 50-36-2

Issued February 20, 2018, by the Office of the Attorney General, Georgia

The Illegal Immigration Reform and Enforcement Act of 2011 (“IIREA”), as amended by Senate Bill 160, signed into law as Act No. 27, (2013), provides that “[n]or later than August 1, 2011, the Attorney General shall provide and make public on the Department of Law’s website a list of acceptable secure and verifiable documents. The list shall be reviewed and updated annually by the Attorney General.” O.C.G.A. § 50-36-2(g). The Attorney General may modify this list on a more frequent basis, if necessary.

The following list of secure and verifiable documents, published under the authority of O.C.G.A.

§ 50-36-2, contains documents that are verifiable for identification purposes, and documents on this list may not necessarily be indicative of residency or immigration status.

- An unexpired United States passport or passport card [O.C.G.A. § 50-36-2(b)(3); 8 CFR § 274a.2]
An unexpired United States military identification card [O.C.G.A. § 50-36-2(b)(3); 8 CFR § 274a.2]
- An unexpired driver’s license issued by one of the United States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, the Commonwealth of the Northern Marianas Islands, the United States Virgin Island, American Samoa, or the Swain Islands, provided that it contains a photograph of the bearer or lists sufficient identifying information regarding the bearer, such as name, date of birth, gender, height, eye color, and address to enable the identification of the bearer [O.C.G.A. § 50-36-2(b)(3); 8 CFR § 274a.2]¹
- An unexpired identification card issued by one of the United States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, the Commonwealth of the Northern Marianas Islands, the United States Virgin Island, American Samoa, or the Swain Islands, provided that it contains a photograph of the bearer or lists sufficient identifying information regarding the bearer, such as name, date of birth, gender, height, eye color, and address to enable the identification of the bearer [O.C.G.A. § 50-36-2(b)(3); 8 CFR § 274a.2]

¹ For identification presented to poll workers when voting, a registered Georgia voter may present an expired Georgia driver’s license as proof of identification when voting pursuant to O.C.G.A. § 21-2-417.

- An unexpired tribal identification card of a federally recognized Native American tribe, provided that it contains a photograph of the bearer or lists sufficient identifying information regarding the bearer, such as name, date of birth, gender, height, eye color, and address to enable the identification of the bearer. A listing of federally recognized Native American tribes may be accessed at: <https://www.bia.gov/tribal-leaders-directory> [O.C.G.A. § 50-36-2(b)(3); 8 CFR § 274a.2]
- An unexpired United States Permanent Resident Card or Alien Registration Receipt Card [O.C.G.A. § 50-36-2(b)(3); 8 CFR § 274a.2]
- An unexpired Employment Authorization Document that contains a photograph of the bearer [O.C.G.A. § 50-36-2(b)(3); 8 CFR § 274a.2]
- An unexpired passport issued by a foreign government, provided that such passport is accompanied by a United States Department of Homeland Security (“DHS”) Form I-94, DHS Form I-94A, DHS Form I-94W, or other federal form specifying an individual’s lawful immigration status or other proof of lawful presence under federal immigration law” [O.C.G.A. § 50-36-2(b)(3); 8 CFR § 274a.2]
- An unexpired Merchant Mariner Document or Merchant Mariner Credential issued by the United States Coast Guard [O.C.G.A. § 50-36-2(b)(3); 8 CFR § 274a.2]
- An unexpired Free and Secure Trade (FAST) card [O.C.G.A. § 50-36-2(b)(3); 22 CFR § 41.2]
- An unexpired NEXUS card [O.C.G.A. § 50-36-2(b)(3); 22 CFR § 41.2]
- An unexpired Secure Electronic Network for Travelers Rapid Inspection (SENTRI) card [O.C.G.A. § 50-36-2(b)(3); 22 CFR § 41.2]
- An unexpired driver’s license issued by a Canadian government authority [O.C.G.A. § 50-36-2(b)(3); 8 CFR § 274a.2]
- A Certificate of Citizenship issued by the United States Department of Citizenship and Immigration Services (USCIS) (Form N-560 or Form N-561) [O.C.G.A. § 50-36-2(b)(3); 6 CFR § 37.11]

² Senate Bill 160 (Act No. 27), effective July 1, 2013, limited the use of passports issued by foreign nations to satisfy the requirements for submission of secure and verifiable documents to only those passports submitted in conjunction with a United States Department of Homeland Security (“DHS”) Form I-94, DHS Form I-94A, DHS Form I-94W, or other federal form specifying an individual’s lawful immigration status or other proof of lawful presence under federal immigration law.

- A Certificate of Naturalization issued by the United States Department of Citizenship and Immigration Services (USCIS) (Form N-550 or Form N-570) [O.C.G.A. § 50-36-2(b)(3); 6 CFR § 37.11]
- Certification of Report of Birth issued by the United States Department of State (Form DS-1350) [O.C.G.A. § 50-36-2(b)(3); 6 CFR § 37.11]
- Certification of Birth Abroad issued by the United States Department of State (Form FS-545) [O.C.G.A. § 50-36-2(b)(3); 6 CFR § 37.11]
- Consular Report of Birth Abroad issued by the United States Department of State (Form FS-240) [O.C.G.A. § 50-36-2(b)(3); 6 CFR § 37.11]
- An original or certified copy of a birth certificate issued by a State, county, municipal authority, or territory of the United States bearing an official seal [O.C.G.A. § 50-36-2(b)(3); 6 CFR § 37.11]
- When applying for any public benefit with the Department of Driver Services, an applicant may submit either an expired or unexpired document that is listed above as a secure and verifiable document. [O.C.G.A. §§ 50-36-1(g) & 50-36-2(b)(3)]
- When applying for a voter identification card pursuant to O.C.G.A. § 21-2-417.1, an individual may submit the aggregate forms of identification authorized by O.C.G.A. § 21-2-417.1(e).
- In addition to the documents listed herein, if, in administering a public benefit or program, an agency is required by federal law to accept a document or other form of identification for proof of or documentation of identity, that document or other form of identification will be deemed a secure and verifiable document solely for that particular program or administration of that particular public benefit. [O.C.G.A. § 50-36-2(c)]



EXHIBIT B
PEACH COUNTY CONSTRUCTION CONTRACT

*Note: Peach County sample construction contract
will be issued by addendum*



EXHIBIT C
STRUCTURAL ASSESSMENT

October 5, 2020

Mr. Paul Schwindler
paul-schwindler@peachcounty.net

Re: Roofing Project - 406 E. Church Street, Fort Valley, GA 31030

Pi-Tech has completed a review of the metal building framing at the subject property. The building is scheduled for re-roofing, with the intent of leaving the existing roof in place. New metal panels will be installed over the existing roof, increasing the dead load the structure must sustain by about 2 lbs./square foot. We were asked to provide an opinion on the suitability of the main frames and roof purlins for this increase in weight.

No design documents for the building were available for review, so we made a site visit to collect frame spans, spacing, approximate section dimensions, eave heights, etc. The building framing consists of a series of rigid, moment resisting frames. Frame spans vary around the front entry, but the typical main building frames span about 42' and are spaced at about 20' O.C. At least one addition is present, as the two frames closest to the left side end wall are of different construction than the rest of the building. Directions referenced in this letter (front, rear, left right) assume the reader is standing on East Church Street, facing the building.

To complete our analysis, we constructed several models of the main frames, based on the dimensions gathered on site. The first set of frames were loaded with the existing loads and used as a basis for comparison. The frames support the roof purlins, existing metal panels, insulation, lay-in acoustic ceiling and some mechanical duct work for a total of about 7 lbs./square foot in materials. An identical set of frames was then produced, except the loading applied included the additional 2 lbs./square foot anticipated for the new roofing. In all cases, the additional roofing increases the stress levels in the associated members by about 7%. The International Existing Building Code suggests no further analysis of a structure is required if the loading applied increases by 5% or less.

Generally, metal buildings are designed with little residual capacity. Purlins and secondary framing members are designed to Code required loads and combinations, as are the main frames. The main frames are typically designed for a Code permitted reduced live load of 12 lbs./square foot, based on the areas the frames support. Purlins do not qualify for this area reduction and are designed for a 20 lbs./square foot live load and whatever the dead weight of the building materials may be.

In an attempt to reverse engineer the likely design loads, we also measured the existing roof purlins that span between main frames. The purlins are typically arranged at 5'-0" to 5'-4" O.C., measure 8" deep, have a 3" flange and are 14 gauge. Assuming simple span conditions and that the purlins are adequately braced by the roof panels, they have a capacity of approximately 120 lbs./ft. This value corresponds to a roof live load of 20 lbs./square foot and a dead load of 5 lbs./square foot. This matches closely with the anticipated capacity.

While the building will support the weight of the planned roof panels, (2 lbs./square foot), the roof live load capacity will be reduced by their weight. Since the frames are likely already designed for a minimal roof live load capacity, we do not recommend installing the new panels directly over the existing panels. A better approach that maintains design loads would include removing the existing roof panels before applying the new panels to the existing purlins.

If you have any questions, please feel free to contact us.

Sincerely,



Matt Ellis, P.E.
Senior Design Engineer
Georgia Registration No. 035616
Pi-Tech, Inc COA: PEF003000
COA Expiration Date 06/30/2022

STRUCTURAL DESIGN BY
PI-TECH, INC.



10-5-2020



Picture 1 – Typical Rigid Frame. This frame/geometry/construction is typical through most of the building.



Picture 2 – Rigid Frame at left side of main building. This frame and the end wall beyond were likely an addition.