



County of Accomack, Virginia
Post Office Box 620, Accomack, Virginia 23301
Telephone: (757) 787-5709 fax: (757) 787-2468

IFB # 753- District and J & DR Courthouse Roof Replacement

The County of Accomack is seeking **sealed bids** from qualified and licensed Contractors for demolition and construction to be performed at the General District Court Building at 23371 Front Street, Accomac, VA 23301.

General description of work: Removal of existing shingle roof, gutters, and downspouts. Installation of new roofing including standing-seam metal roof, EPDM membrane roof, associated flashings, gutters, and downspouts in accordance with the plan set by VIA Design.

All work is shown on the plans (10 sheets, dated January 20, 2023) prepared by VIA Design. The contractor shall be required to adhere to all applicable comments from these documents. The County will waive the tipping fees for all materials removed from this project and delivered to the North Landfill (9400 Cutler Lane, Atlantic, VA 23303) by the Contractor. The Contractor is responsible to obtain any necessary County permits, but the fees will be waived.

***Work shall be completed 150 days after issue of Notice to Proceed.** Contractor is required to submit Payment Bond and Performance Bond in an amount equal to 100% of the amount of the contract. (Sample contract is attached.)

There will be a Mandatory Pre-Bid Meeting on Tuesday, April 4, 2023 starting no earlier than 8:00 a.m. at the project site. (Interested contractors should gather on the front steps of the District Court Building on Front Street in Accomac)

Sealed bids may be delivered to the Accomack County Finance Department, 23296 Courthouse Ave., Suite 204, Accomac, VA 23301 until **4:00 PM Thursday, April 20, 2023. Immediately thereafter**, all bids received by the due date and time will be publicly opened and read aloud via "Zoom Meeting." Interested persons wishing to join the live bid opening should contact Lucy Huffman at lhuffman@co.accomack.va.us at **least one day prior** to the date set for the opening of bids to receive "Zoom login information." Bids received after the due date and time will be returned unopened.

A bid bond is required to be submitted for 5% of the bid amount.

The bidding documents for this project may be found on the Accomack County website, and at the Builders & Contractors Exchange (1118 Azalea Garden Road, Norfolk, VA). See links below. The bid tabulation will be posted after bids are opened.

Bidders are encouraged to monitor the websites indicated below* for changes in the bid opening schedule or for any addenda issued. **Receipt of Addenda must be acknowledged for this project.**

*Accomack County website: <https://www.co.accomack.va.us/>

Builders and Contractors Exchange, Norfolk, VA: <https://bceva.com/>

Project Contact Information: Finance Department, for questions about the project or the bidding process –Lucy Huffman, Procurement Specialist – (ph) 757-787-5709; lhuffman@accomack.va.us

BID FORM

Date: _____

Company Name: _____

Address: _____

Phone: _____

Fax#: _____

Attn: _____ Email: _____

Base Bid: (numbers) \$ _____

(words) _____

Bidders Representation:

- A. The bidding documents have been reviewed and are understood. This bid is made in accordance herewith.
- B. The project site has been visited and/ or the bidder acknowledges understanding of the local conditions under which the project is to be performed.
- C. This bid is based upon the material, systems, and equipment which meet or exceed those described in the bidding documents.

Bidder Acknowledgement of "Representation"

(Authorized signature)

(Title)

BID FORM

Receipt of Addenda:

Addendum No.

Dated

_____	_____
_____	_____
_____	_____
_____	_____

Base Bid Lead Time: _____

Exceptions: _____

Quotation Prepared By: _____
Name (printed)

Signature: _____ **Date:** _____

Current Licenses if Applicable:

VIRGINIA CONTRACTOR'S

LICENSE#: _____ **EXPIRATION DATE:** _____ (please attach copy)

ACCOMACK CO. BUSINESS

LICENSE#: _____ **EXPIRATON DATE:** _____ (please attach copy)

By signing this form, bidder or offeror certifies, acknowledges, understands, and agrees to be bound by the conditions set forth in this IFB and the General Terms, Conditions and Instructionsto Bidders/Offerors herein.

BID FORM

It is the intention of the County of Accomack to comply fully with relevant federal and state laws, orders, and regulations and to promote the interests of the Virginia Department of Small Business and Supplier Diversity and like agencies. The procurement practices of the County of Accomack are non-discriminatory and promote equality of opportunity for all qualified businesses.

PLEASE INDICATE THE FOLLOWING INFORMATION RELEVANT TO YOUR FIRM, IF ANY:

DESIGNATIONS: (Refer to the definitions provided by the Virginia Department of Small Business and Supplier Diversity.)

<u>Micro Business</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<u>Small Business</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<u>Women-Owned Business</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<u>Minority Business</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<u>Service Disabled Veteran</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No

The above information is requested for statistical purposes only. All firms tendering responses will receive equal consideration for award.

CONTACT FOR ADMINISTRATION

Name: _____

Office Address: _____

Office Phone Number: _____

Please return this page

BID FORM

VENDOR ELIGIBILITY CERTIFICATION

This is to certify that this person/firm/corporation has neither been barred from bidding on contracts by any agency of the Commonwealth of Virginia, nor is this person/firm/corporation a part of any firm/corporation that has been barred from bidding on contracts by any agency of the Commonwealth of Virginia.

Name of Official

Title

Firm or Corporation

Please return this page.

PROOF OF AUTHORITY TO TRANSACT BUSINESS IN VIRGINIA THIS FORM MUST BE SUBMITTED WITH YOUR PROPOSAL/BID. FAILURE TO INCLUDE THIS FORM MAY RESULT IN REJECTION OF YOUR PROPOSAL/BID.

Pursuant to Virginia Code §2.2-4311.2, an Offeror/Bidder organized or authorized to transact business in the Commonwealth pursuant to Title 13.1 or Title 50 of the code of Virginia shall include in its proposal/bid the identification number issued to it by the State Corporation Commission (“SCC”). Any Offeror/ Bidder that is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 of the code of Virginia or as otherwise required by law shall include in its proposal/bid a statement describing why the Offeror/ Bidder is not required to be so authorized. Any Offeror/ Bidder described herein that fails to provide the required information shall not receive an award unless a waiver of this requirement and the administrative policies and procedures established to implement this section is granted by the County Administrator as applicable.

If this quote for goods or services is accepted by the County of Accomack, Virginia, the undersigned agrees that the requirements of the Code of Virginia Section 2.2-4311.2 have been met.

Please complete the following by checking the appropriate line that applies and providing the requested information.

- A. _____ Offeror/Bidder is a Virginia business entity organized and authorized to transact business in Virginia by the SCC and such vendor’s Identification Number issued to it by the SCC is _____.
- B. _____ Offeror/Bidder is an out-of-state (foreign) business entity that is authorized to transact business in Virginia by the SCC and such vendor’s identification Number issued to it by the SCC is _____.
- C. _____ Offeror/Bidder does not have an Identification Number issued to it by the SCC and such vendor is not required to be authorized to transact business in Virginia by the SCC for the following reason(s):

Please attach additional sheets if you need to explain why such Offeror/ Bidder is not required to be authorized to transact business in Virginia.

Legal Name of Company (as listed on W-9)

Legal Name of Offeror/ Bidder

Date

Authorized Signature

Print or Type Name and Title

Please return this page.

General Terms and Conditions and Instructions to Bidders and Offerors

Application:

These General Terms and Conditions and Instructions to Bidders and Offerors (“Terms and Conditions”) apply to all Invitations for Bids (IFBs) and Requests for Proposals (RFPs) and to all contracts, agreements, purchase order, memoranda of understanding, and any change order, modification or addenda thereto (“Contract”), entered by and between the County of Accomack, Virginia (County”) and an individual or **entity for goods and/or services. These Terms and Conditions do not apply to Contracts by and between the County and any public body or public agency except to the extent that the parties agree to incorporate these Terms and Conditions, in whole or in part, into said Contract.**

Where professional services are procured, as defined in Virginia Code Section 2.2-4301, the County’s General Terms and Conditions for Professional Services shall also apply. In the event of conflict between these Terms and Conditions and those contained in the General Terms and Conditions for Professional Services, the more stringent requirement shall apply, unless otherwise required by law.

Definitions:

For purposes of these Terms and Conditions, the following terms are defined generally as follows:

“**Bidder**” shall mean any individual or entity responding to an Invitation for Bids issued by the County.

“**Offeror**” shall mean any individual or entity responding to a Request for Proposals issued by the County.

“**Contract**” shall mean any contract, agreement, purchase order, or memorandum of understanding, and any change order, modification or addendum thereto.

“**Contractor**” shall mean any individual or entity that has entered into a Contract to provide goods or services to the County of Accomack.

Tax Exemption:

The County of Accomack is exempt from and will not pay Federal Excise Tax, Transportation Tax or the Commonwealth of Virginia Sales and Use Tax. The County is also exempt from the local 911 tax. A signed certificate to document the County’s tax-exempt status is available upon request **by the Contractor to the Purchasing office.**

Ethics in Public Contracting (§2.2-4367 et seq., Code of Virginia):

The Contractor shall not offer or receive any kickbacks or inducements from any other offeror, supplier, manufacturer, or subcontractor in connection with this project. The A/E shall not confer on any public employee having official responsibility for this project any payment, loan, subscription, advance, deposit of money, services, or anything of more than nominal value, present or promised, unless consideration of substantially equal or greater value was exchanged.

1. **Authorization to Conduct Business in the Commonwealth.** Any Contractor organized as a stock or nonstock corporation, limited liability company, business trust, or limited partnership or registered as a registered limited liability partnership must be authorized to transact business in the Commonwealth as a domestic or foreign business entity if so required by Title 13.1 or Title 50 of the Code of Virginia, or as otherwise required by law. A business that enters into a Contract, including purchase orders, with the County shall not allow its existence to lapse or its certificate of authority or registration to transact business in the

Commonwealth to be revoked or cancelled at any time during the term of the Contract. The County may void any Contract with a business entity that fails to remain in compliance with the provisions of this paragraph.

2. Contractor's License: Bidders and Offerors (as required) must be licensed as a Contractor in the Commonwealth of Virginia and/or shall possess any professional license or certification required by state law. Bidders and Offerors are directed to Subtitle II of Title 54.1, Code of Virginia as amended. Bidder or Offeror shall include a copy of its license or certification with the completed bid form.

3. Business License: All businesses who wish to engage in business with the County of Accomack must possess a valid Accomack County Business License or must document why they are exempt from licensure. Some businesses who have obtained business licenses from other county jurisdictions are exempt from Accomack County licensure requirements; however, rules differ for building contractors and tradesmen who may be required to possess multiple business licenses. Businesses should contact the Commissioner of the Revenue for specific guidance on this issue. This office may be reached at 757-787-5747.

4. Insurance: Any Contractor doing business with the County shall maintain insurance to protect the County from claims under the Worker's Compensation Act, and from any other claim for damages for personal injury, including death, and for damage to property which may arise from operation under a contract, whether such operations by the contractor or subcontractor, or anyone directly or indirectly employed by either, such insurance to conform to the amounts as prescribed by law. For construction contracts, if any subcontractors are involved, the subcontractor will have workers' compensation insurance in accordance with §§ 2.2-4332 and 65.2-800 et seq. of the Code of Virginia during the entire term of the contract.

Whenever work is to be performed on County-owned or -leased property or facilities, the contractor shall be required to have the insurance specified with an insurance company acceptable to the County of Accomack and licensed to do business in the state of Virginia. All insurance must be obtained before any work is commenced and kept in effect until its completion.

Minimum insurance requirements for the County of Accomack are as follows:

- A. Commercial General Liability: \$1,000,000 per occurrence /\$2,000,000 aggregate and is to include:
 - 1) Premises/Operations' Liability,
 - 2) Products and Completed Operations Coverage, and
 - 3) Independent Contractor's Liability or Owner's and Contractor's Protective Liability.

*The County of Accomack, Virginia must be **named** and **endorsed** as an “additional insured” when a Contractor is required to obtain Commercial General Liability coverage.*
- B. Automotive Liability: \$1,000,000 combined single limit and only if motor vehicle is to be used in the contract.
- C. Worker’s Compensation Liability: Virginia statutory requirements and benefits (if the contractor has three or more employees).
- D. Employer's Liability: \$100,000 (if employees are paid a wage or salary).
- E. In addition, various Professional Liability/Errors and Omissions insurance coverages are required when providing those services as follows:

Profession/Service	Occurrence Limit	Aggregate Limit
Accounting	\$1,000,000	\$3,000,000
Architecture	\$2,000,000	\$6,000,000
Asbestos Design, Inspection, or Abatement		
Contractors	\$1,000,000	\$3,000,000
Health Care Practitioner	\$1,650,000	\$3,000,000
Insurance/Risk Management	\$1,000,000	\$3,000,000

Landscape/Architecture	\$500,000	\$1,000,000
Legal	\$1,000,000	\$5,000,000
Professional Engineer	\$2,000,000	\$6,000,000
Surveying	\$100,000	\$300,000

The minimum amount of professional liability insurance required to be carried by the A/E shall be calculated as not less than an amount equal to 5% of the estimated cost of construction of all County-owned projects designed by the A/E which are currently under construction, but in no event shall the amount of professional liability insurance be less than \$100,000 per claim. As an alternative to the calculated amount indicated above, the Architect and/or Engineer (A/E) may work with the County to procure a 'Project Insurance' package for that project which is satisfactory to the County; or the A/E may provide a Certificate of Insurance indicating coverage in the amount of \$2,000,000 per claim and \$6,000,000 in the aggregate.

5. Non Discrimination: The County of Accomack does not discriminate against faith-based organizations in accordance with the Code of Virginia, §2.2-4310 and 2.2-4343.1 or against a Bidder or Offeror because of race, religion, color, sex, national origin, age, disability, or any other basis prohibited by state law relating to discrimination in employment.

For Contracts, including purchase orders, over \$10,000, Contractor agree as follows:

- A. The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, or other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor.
- B. The Contractor shall agree to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause, including the names of all contracting agencies with which the contractor has contracts of over \$10,000.
- C. The Contractor, shall in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that such contractor is an equal-opportunity employer. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this provision.
- D. If the Contractor employs more than five employees, the Contractor shall (i) provide annual training on the Contractor's sexual harassment policy to all supervisors and employees providing services in the Commonwealth, except such supervisors or employees that are required to complete sexual harassment training provided by the Department of Human Resource Management, and (ii) post the contractor's sexual harassment policy in (a) a conspicuous public place in each building located in the Commonwealth that the contractor owns or leases for business purposes and (b) the contractor's employee handbook.
- E. The Contractor shall include the provisions of paragraphs A – D above in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

6. Compliance with Federal Immigration Law: The Contractor does not, and shall not during the performance of the Contract for goods and services in the Commonwealth, knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986.

7. Drug-Free Workplace: During the performance of Contracts, including purchase orders, in excess of \$10,000, Contractors shall agree to (i) provide a drug-free workplace for the contractor's employees; (ii) post

in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; (iii) state in all solicitations or advertisements for employees placed by or on behalf on the contractor that the contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor. For the purposes of this section, "drug-free workplace" means a site for the performance of work done in conjunction with a specific contract awarded to a Contractor in accordance with this section, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

8. Qualifications of Bidder/Offeror: Each Bidder or Offeror shall be prepared to supply evidence of qualifications and capacity to perform work as proposed. Items which may be considered evidence are as follows:

- A. Current financial statement
- B. List of current and past similar contracts
- C. Explanation of methods to be used in fulfilling this contract
- D. Statement of current work load and/or capacity

Additional particular items may be requested as needed by the County. All qualifications shall be received within ten (10) days of request by the County.

9. Competency of Bidder/Offeror:

- A. The Bidder or Offeror if requested, shall present evidence of performance ability and possession of necessary facilities, pecuniary resources, and adequate insurance to comply with the terms of these specifications and contract documents. Such evidence shall be presented within a specified time and to the satisfaction of the County.
- B. Bidders certify that their bid is made without any previous understanding, agreement, or connection with any person, firm, or corporation making a bid for the same project; without prior knowledge of competitive prices; and is in all respects fair, without outside control, collusion, fraud, or otherwise illegal action.
- C. Bidders or their authorized agents are expected to fully inform themselves as to the conditions, requirements, and specifications before submitting bids. Failure to do so will be at the bidder's own risk.
- D. Bids and Contracts issued by the County of Accomack shall bind Bidders to applicable conditions and requirements set forth in the bid boilerplate, unless otherwise specified in the bid documents, and are subject to all federal, state, and municipal laws, rules, regulations, and limitations.

10. Completing Bid Forms:

- A. Use only the bid form(s) supplied by the County.
- B. One original signed bid shall be submitted.
- C. All blanks on the bid form(s) shall be filled in completely in ink.
- D. Any interlineation, alteration, or erasure on the bid form shall be initialed by the signer of the bid.
- E. Each bid shall be signed by the person or persons legally authorized to bind the bidder to a Contract, using the legal name of the signer.
- F. A bid submitted by an agent shall have a current Power of Attorney attached certifying the agent's authority to bind the Bidder.
- G. Bidders shall supply all information and submittals required by the bid documents to constitute a proper and responsive bid. Any ambiguity in any bid as a result of omission, error, lack of clarity or

noncompliance by the bidder with specifications, instructions, and/or all conditions of bidding shall be construed in the light most favorable to the County.

- H. When an error is made in extending total prices, the unit bid price will govern.
- I. Erasures in bids must be initialed by the Bidder. Carelessness in quoting prices or in preparation of bid otherwise will not relieve the Bidder.
- J. Bidders are cautioned to recheck their bids for possible error.

11. Descriptive Literature: Bidder may be required to submit with bid complete pertinent descriptive literature and specifications fully describing the materials proposed to be furnished.

12. Specifications Exceptions: Exceptions to the specifications or general instructions must be in writing and submitted with the bid form. Exceptions to the specifications contained in bids are specifically discouraged. Bidders should attempt to submit a bid fully conforming to the specifications. Failure to clearly identify any exception may result in disqualification of the bid.

13. Use of Brand Names: The name of a certain brand, make, manufacturer, or definite specification is to set forth to convey to prospective bidders the general style, type, character, and quality of the article desired. Any article that the County in its sole discretion determines to be the equal of that specified, considering quality, workmanship, economy of operation, and suitability for the purpose, shall be acceptable.

14. Eligible Vendors: Vendors responding to a request for supplies must be the manufacturer or authorized distributor of all products bid.

15. Delivery Terms: Bid prices must be net, based on delivery to the specified location(s) in Accomack County. Prices shall include all applicable freight charges; extra charges will not be allowed.

16. Comments/Questions: Any information relative to interpretation of specifications and drawings shall be requested of the Procurement Agent, in writing, in ample time before the opening of bids. No inquiries, if received by the Procurement Agent within five (5) business days of the date set for the opening of bids, will be given any consideration. Any material interpretation of a specification, as determined by the County Procurement Agent, will be expressed in the form of an addendum to the specification which will be posted to the websites indicated in the IFB no later than three (3) business days before the date set for receipt of bids. Oral answers will not be authoritative. Comments concerning specifications or other provisions of the bid documents may be directed to Lucy Huffman, Procurement Specialist, County of Accomack, via email to lhuffman@co.accomack.va.us.

17. Bid/Proposal Delivery: Bids/proposals may be mailed or delivered as directed in the Invitation for Bids or in the Request for Proposals. Please see the specific instructions given in each individual IFB or RFP.

18. Bid/Proposal Preparation: The bid/proposal and any other documents required to be submitted with the bid shall be enclosed in a sealed, opaque envelope. **The envelope must clearly reference the project title and the project number on its face.**

19. Bid/Proposal Receipt: Bids/proposals shall be received before the due date and time stated in the Invitation for Bids or the Request for Proposals. The Bidder/Offeror shall assume full responsibility for taking whatever measures are necessary to ensure that the bid/proposal reaches the location indicated in the solicitation prior to the due date and time set forth in the solicitation. The County will not be responsible for any bid/proposal delayed in the postal service or any other delivery service nor any late bid/proposal or amendment thereto received after the due date and time set forth in the solicitation. Bids received after the due date and time set for receipt of bids will be returned to the bidder unopened.

20. Opening of Bids: Bids received on time will be opened publicly and read aloud at the time and location specified in the Invitation for Bids. The device or mechanism for establishing the opening time shall be established by the County.

21. Acceptance or Rejection of Bids:

- A. Unless otherwise specified, the contract shall be awarded to the lowest **responsible** and **responsive** bidder complying with the provisions of the bid documents, provided the bid price is reasonable, does not exceed the funds available, and is in the best interest of the County. The County reserves the right to reject the bid of any bidder who has failed to perform properly in any way or to complete on time contracts previously awarded, or a bid from any bidder who investigation shows is not in a position to perform the Contract. The County reserves the right to reject all bids.
- B. In determining a Bidder's **responsibility**, the County may consider the following in addition to price:
 - 1) The Bidder's ability, capacity, and skill to provide the goods and/or services required within the specified time.
 - 2) The Bidder's ability to provide needed maintenance and service.
 - 3) The character, integrity, reputation, experience, and efficiency of Bidder and the quality of Bidder's performance of previous and/or existing contracts.
 - 4) Whether the Bidder is in arrears to the County, in debt on a contract, or in default on any surety.
- C. In determining a Bidder's **responsiveness**, the County shall consider whether the bid conforms in all material respects to the bid documents. To be responsive, a bid must include all information required by the IFB solicitation.
- D. The County reserves the right to waive any irregularities to the extent permitted by law.
- E. The County reserves the right to reject any and all bids, to accept any bid in whole or in part, to add or delete quantities, to waive any informalities in bids received, to reject a bid not accompanied by any required bid security or other data required by bidding documents, and to accept or reject any bid which deviates from specifications when in the best interest of the County.
- F. The County cannot, by law, negotiate cost with the lowest bidder, except where the lowest responsive bid exceeds available funds.
- G. In the event that the lowest responsive bid received from a responsible Bidder exceeds available funds, the County reserves the right to negotiate with that Bidder to obtain a contract price within available funds.
- H. Such other information as may be secured by the County Procurement Agent having a bearing on the decision to award the Contract. If an apparent low bidder is not awarded a contract for reasons of non-responsibility, the County Procurement Agent shall so notify that Bidder and shall have recorded the reasons in the procurement file.

22. Acceptance or Rejection of Proposals:

- A. Requests for Proposals shall be awarded to the Offeror whose proposal most closely meets the evaluation criteria set forth in the Request for Proposals with price as one of the determining factors, but not the sole determining factor. The County reserves the right to reject the proposal of any Contractor who has failed to perform properly in any way or to complete on time contracts previously awarded, or a proposal from any Offeror who investigation shows is unqualified to perform the Contract.
- B. The County reserves the right to reject all proposals.
- C. The County reserves the right to waive any irregularities to the extent permitted by law.

23. Pricing: Prices quoted in *Proposals* shall be considered, but shall not be the sole determining factor in selecting a provider for the required services.

24. Notice of Consideration: Successful offeror(s) will be notified if their proposal has received the highest score(s).

25. Binding Bids/Proposals: Bids/proposals are to be binding for sixty (60) calendar days following the opening date, unless extended by mutual consent of all parties or unless otherwise specified in the terms contained in the Invitation for Bids or Request for Proposals.

26. Bid Bond: Bidders shall be required to provide a Bid Bond in an amount equal to 5% of the bid amount.

27. Withdrawal of Bids:

- a. A Bidder for a public construction contract, other than a contract for construction or maintenance of public highways, may withdraw his or her bid from consideration if the price bid was substantially lower than the other bids due solely to a mistake therein, provided the bid was submitted in good faith, and the mistake was a clerical mistake as *opposed* to a judgment mistake, and was actually due to an unintentional arithmetic error or an unintentional omission of a quantity of work, labor, or material made directly in the compilation of a bid, which unintentional arithmetic error or unintentional omission can be clearly shown by objective evidence drawn from inspection of original work papers, documents, and materials used in the preparation of the bid sought to be withdrawn. If a bid contains *both* clerical and judgment mistakes, a bidder may withdraw his bid from consideration if the price bid would have been substantially lower than the other bids due solely to the clerical mistake, that was an unintentional arithmetic error or an unintentional omission of a quantity of work, labor, or material made directly in the compilation of a bid which shall be clearly shown by objective evidence drawn from inspection of original work papers, documents, and materials used in the preparation of the bid sought to be withdrawn. The Bidder shall give notice in writing to the Procurement Agent of his or her claim of right to withdraw his or her bid within two (2) business days after the conclusion of the bid-opening procedure and shall submit original work papers with such notice.
- b. A Bidder for a contract other than for public construction may request withdrawal of his or her bid under the following circumstances:
 - 1) Requests for withdrawal of bids prior to opening of such bids shall be transmitted to the County Procurement Agent in writing.
 - 2) Requests for withdrawal of bids after opening of such bids but prior to award shall be transmitted to the County Procurement Agent, in writing, accompanied by full documentation supporting the request. If the request is based on a claim of error, documentation must show the basis of the error. Such documentation may take the form of supplier quotations, vendor work sheets, and similar documents. If bid bonds were tendered with the bid, the County may exercise its right of collection.
 - 3) No bid may be withdrawn under this section when the result would be the awarding of the Contract on another bid of the same Bidder or of another bidder in which the ownership of the withdrawing Bidder is more than five percent.
 - 4) If a bid is withdrawn under the authority of this section, the lowest remaining bid shall be deemed to be the low bid.

28. Contract Award:

Bid (IFB) -- Award will be made on basis of information submitted with the bid and based on what is determined to be in the County's best interest, taking into consideration pricing and qualifications of bidders. A written award in the form of a purchase order, acceptance agreement, or formal contract shall result in a binding contract without further action by either party. If a contract or acceptance agreement is used, the same shall be executed by the successful Bidder within ten (10) working days of receipt of notice of award. All bids shall be approved by the County's Board of Supervisors prior to the award of same.

Proposal (RFP) – A Selection Committee will review and evaluate all proposals submitted in response to a Request for Proposals. The Committee shall conduct a preliminary evaluation of all proposals on the basis of the information provided with the proposal and the evaluation criteria listed herein. The Committee

shall make recommendation to the County Board of Supervisors, and the Board of Supervisors shall make the final decision. The County shall be the sole judge as to the merits of qualifications submitted by Offerors. The decision of the County shall be final. In the event the County determines, in writing and in its sole discretion, that only one Offeror is fully qualified, or that one Offeror is clearly more highly qualified and suitable than the others under consideration, a contract may be negotiated and awarded to that Offeror.

The following documents, which are included in the Request for Proposals, shall, unless otherwise provided, be incorporated by reference in the resulting Contract and become a part of said Contract:

- A. County of Accomack Solicitation Form/Acceptance Agreement (Cover Sheet),
- B. General Terms, Conditions and Instructions to Bidders and Offerors,
- C. General Terms and Conditions for Professional Services, if applicable,
- D. Special Provisions and Specifications,
- E. Pricing Schedule,
- F. Any addenda/amendments/Memoranda of Negotiations,
- G. Other documents which may be incorporated by reference, if applicable.

29. Tie Bids: If all bids are for the same total amount or unit price (including authorized discounts and delivery times) and if the public interest will not permit the delay of re-advertisement for bids, the County Procurement Agent is authorized to award the Contract to the resident Accomack County tie bidder whose firm has its principal place of business in the County, or if there be none, to the resident Virginia tie bidder, or if there be none, to one of the tie bidders by drawing lots in public. The decision of the County to make award to one or more such bidders shall be final.

30. Notification of Award: Successful Bidders/Offerors will be notified immediately upon acceptance of their bid/proposal.

31. Guarantees & Warranties: All guarantees and warranties required shall be furnished by the successful Bidder/Offeror and shall be delivered to the Procurement Agent before final payment on the Contract is made. Unless otherwise stated, manufacturer's standard warranty applies.

32. Permits: Any and all required permits shall be obtained by the successful Bidder/Offeror.

33. Performance Bond and Payment Bond: The successful bidder/ offeror shall be required to provide to the County a Performance Bond and Payment Bond in an amount equal to the amount of the Contract.

34. Termination for Convenience: A Contract may be terminated in whole or in part by the County in accordance with this clause whenever the County Procurement Agent shall determine that such a termination is in the best interest of the County. Any such termination shall be effected by delivery to the Contractor at least five (5) working days prior to the termination date of a Notice of Termination specifying the extent to which performance shall be terminated and the date upon which termination becomes effective. An equitable adjustment in the Contract price shall be made for completed service, but no amount shall be allowed for anticipated profit on unperformed services.

35. Termination of Contract for Cause

- A. If, through any cause, the Contractor shall fail to fulfill in a timely and proper manner his or her obligations under the Contract, or if the Contractor shall violate any of the covenants, agreements, or stipulations of the Contract, the County shall thereupon have the right to terminate, specifying the effective date thereof, at least five (5) days before the effective date of such termination. In such event, all finished or unfinished documents, data, studies, surveys, drawings, maps, models, and reports prepared by the Contractor under the Contract shall, at the option of the County, become its property,

and the Contractor shall be entitled to receive just and equitable compensation for any satisfactory work completed on such documents.

- B. Notwithstanding the above, the Contractor shall not be relieved of liability to the County for damages sustained by the County by virtue of any breach of contract by the Contractor for the purpose of set off until such time as the exact amount of damages due to the County from the Contractor is determined.

36. Contract Alterations: No alterations in the terms of a Contract shall be valid or binding upon the County unless made in writing and signed by the Procurement Agent or his or her authorized agent.

37. Subletting of Contract or Assignment of Contract Funds: It is mutually understood and agreed that the Contractor shall not assign, transfer, convey, sublet, or otherwise dispose of his or her contractual duties to any other person, firm, or corporation without the previous written consent of the Procurement Agent. If the Contractor desires to assign his or her right to payment of the Contract, Contractor shall notify the Procurement Agent immediately, in writing, of such assignment of right to payment. In no case shall such assignment of Contract relieve the Contractor from his or her obligations or change the terms of the contract.

38. Funding: A Contract shall be deemed binding only to the extent of appropriations available to each Department or Office for the purchase of goods and services.

39. Delivery/Service Failures: Failure of a Contractor to deliver goods or services within the time specified, or within reasonable time as interpreted by the Procurement Agent, or failure to make replacements/corrections of rejected articles/services when so requested, immediately or as directed by the Procurement Agent, shall constitute authority for the Procurement Agent to purchase in the open market articles/services of comparable grade/quality to replace the services, articles rejected, and/or not delivered. On all such purchases, the Contractor shall reimburse the County, within a reasonable time specified by the Procurement Agent, of any expense incurred in excess of contract prices. The County shall be entitled to withhold such reimbursement from payments due the Contractor under the Contract. Such purchases shall be deducted from the Contract quantities if applicable. Should public necessity demand it, the County reserves the right to use or consume articles delivered or services performed which are substandard in quality, subject to an adjustment in price to be determined by the Procurement Agent.

40. Non-Liability: The Contractor shall not be liable in damages for delay in shipment or failure to deliver when such delay or failure is the result of fire, flood, strike, the transportation carrier, act of God, act of Government, act of an alien enemy, or by any other circumstances which, in the Procurement Agent's opinion, are beyond the control of the Contractor. Under such circumstances, however, the Procurement Agent may, at his or her discretion, cancel the contract.

41. Responsibility for Supplies Tendered: Unless otherwise specified in the solicitation, the Contractor shall be responsible for the materials or supplies covered by the Contract until they are delivered at the designated point, but the Contractor shall bear all risk on rejected materials or supplies after notice of rejection. Rejected materials or supplies must be removed by and at the expense of the Contractor promptly after notification of rejection, unless public health and safety require immediate destruction or other disposal of rejected delivery. If rejected materials are not removed by the Contractor within ten (10) days after date of notification, the County may return the rejected materials or supplies to the Contractor at his or her risk and expense or dispose of them as its own property.

42. Replacement: Materials or components that have been rejected by the Procurement Agent, in accordance with the terms of a Contract, shall be replaced by the Contractor at no cost to the County.

43. General Guaranty:

Contractor agrees to:

- A. Save the County, its agents, and employees harmless from liability of any nature or kind for the use of any copyrighted or uncopyrighted composition; secret process, patented or unpatented; invention; article or appliance furnished or used in the performance of a contract for which the Contractor is not the patentee, assignee, licensee, or owner.
- B. Protect the County against latent defective material or workmanship and to repair or replace any damages or marring occasioned in transit or delivery.
- C. Furnish adequate protection against damage to all work and to repair damages of any kind to the building or equipment, to his or her own work, or to the work of other contractors, for which his or her workers are responsible.
- D. Pay for all permits, licenses, and fees and give all notices and comply with all laws, ordinances, rules, and regulations of the County.
- E. Protect the County from loss or damage to County-owned property while it is in the custody of the Contractor.

44. Service Contract Guaranty:

Contractor agrees to:

- A. Furnish services described in the solicitation and resultant Contract at the times and places and in the manner and subject to conditions therein set forth, provided that the County may reduce the said services at any time.
- B. Meet all industry and professions standards and enter upon the performance of services with all due diligence and dispatch, assiduously press to its complete performance, and exercise therein the highest degree of skill and competence.
- C. All work and services rendered in strict conformance to all laws, statutes, and ordinances and the applicable rules, regulations, methods, and procedures of all government boards, bureaus, offices, and other agents.
- D. Allow services and products to be inspected or reviewed by an employee of the County at any reasonable time and place selected by the County.
- E. The County of Accomack shall be under no obligation to compensate the Contractor for any services not rendered in strict conformity with the Contract.

45. Indemnification: The Contractor shall indemnify, keep and save harmless the County, its agents, officials, employees, and volunteers against claims of injuries, death, damage to property, patent claims, suits, liabilities, judgments, cost, and expenses which may otherwise accrue against the County in consequence of the granting of a contract or which may otherwise result therefrom, if it shall be determined that the act was caused through negligence or error or omission of the Contractor or his or her employees, or that of the subcontractor or his or her employees, if any; and, the Contractor shall, at his or her own expense, appear, defend, and pay all charges of attorneys and all costs and other expenses arising therefrom or incurred in connection therewith; and, if any judgment shall be rendered against the County in any such action, the Contractor shall, at his or her own expense, satisfy and discharge the same. Contractor expressly understands and agrees that any performance bond or insurance protection required by this Contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the County as herein provided. **This indemnity shall be construed in accordance with Virginia law.**

46. Virginia Freedom of Information Act: All proceedings, records, contracts, and other public records relating to procurement transactions shall be open to the inspection of any citizen or any interested person, firm, or corporation in accordance with the Virginia Freedom of Information Act, except as provided below:

- A. Cost estimates relating to a proposed procurement transaction prepared by or for a public body shall not be open to public inspection.
- B. Any competitive sealed bidding bidder, upon request, shall be afforded the opportunity to inspect bid records within a reasonable time after the opening of all bids but prior to award, except in the event that

the County decides not to accept any of the bids and to reopen the contract. Otherwise, bid records shall be open to public inspection only after award of the Contract. Any competitive negotiation Offeror, upon request, shall be afforded the opportunity to inspect proposal records within a reasonable time after the evaluation and negotiations of proposals are completed but prior to award, except in the event that the County decides not to accept any of the proposals and to reopen the contract. Otherwise, proposal records shall be open to the public inspection only after award of the Contract except as provided in paragraph "C" below. Any inspection of procurement transaction records under this section shall be subject to reasonable restrictions to ensure the security and integrity of the records.

- C. Trade secrets or proprietary information submitted by a Bidder, Offeror, or Contractor in connection with a procurement transaction or prequalification application submitted pursuant to the prequalification process identified in the Special Provisions, shall not be subject to the Virginia Freedom of Information Act; however, the Bidder, Offeror, or Contractor shall (i) invoke the protections of this section prior to or upon submission of the data or other materials, (ii) identify the data or other materials to be protected, and (iii) state the reasons why protection is necessary. Any Offeror shall not identify as trade secret or proprietary information their entire completed proposal.
- D. Nothing contained in this section shall be construed to require the County, when procuring by RFP to furnish a statement of the reasons why a particular proposal was not deemed to be the most advantageous to the County.

47. Applicable Law and Courts: The Contract shall be governed in all respects by the laws of the Commonwealth of Virginia, and exclusive jurisdiction for the resolution of any dispute arising out of this contract shall be in the Circuit Court of Accomack County, Virginia.

48. Payment of Subcontractors: Any contract awarded in accordance with Section 2.2-4352 of the Code of Virginia shall include the following provisions:

1. Within seven days after receipt of amounts paid to a Contractor by the County for work performed by a subcontractor under the Contract, the Contractor shall take one of the two following actions:
 - a. Pay the subcontractor for the proportionate share of the total payment received from the agency attributable to the work performed by the subcontractor under that Contract; or
 - b. Notify the agency and subcontractor, in writing, of his intention to withhold all or a part of the subcontractor's payment with the reason for nonpayment.
2. A payment clause that requires (i) individual contractors to provide their social security numbers and (ii) proprietorships, partnerships, and corporations to provide their federal employer identification numbers.
3. An interest clause that obligates the Contractor to pay interest to the subcontractor on all amounts owed by the Contractor that remain unpaid after seven days following receipt by the Contractor of payment from the County for work performed by the subcontractor under the contract, except for amounts withheld as allowed in subdivision 1.
4. An interest rate clause stating, "Unless otherwise provided under the terms of the Contract, interest shall accrue at the rate of one percent per month."

Any such Contract awarded shall further require the Contractor to include in each of its subcontracts a provision requiring each subcontractor to include or otherwise be subject to the same payment and interest requirements with respect to each lower-tier subcontractor.

A Contractor's obligation to pay an interest charge to a subcontractor pursuant to the payment clause in this section shall not be construed to be an obligation of the County. A Contract modification shall not be made for

the purpose of providing reimbursement for the interest charge. A cost reimbursement claim shall not include any amount for reimbursement for the interest charge. A cost reimbursement claim shall not include any amount for reimbursement for the interest charge.

49. General Terms and Conditions Controlling: These General Terms and Conditions are controlling, and unless expressly provided to the contrary, any variance or inconsistency with terms elsewhere in the Contract documents shall be resolved in favor of these General Terms and Conditions and if applicable, the County's General Terms and Conditions for Professional Services.

***End - Revised March 23, 2021**

**Sample CONTRACT for
District and J & DR Court Building Roof Replacement
IFB #753**



The County of Accomack

THIS CONTRACT, made this _____, by and between the County of Accomack, Virginia (the "COUNTY"), a political subdivision of the Commonwealth of Virginia, located at 23296 Courthouse Ave., Accomac, VA 23301, and _____ (the "CONTRACTOR") located at _____
WITNESSETH THAT:

1. RECITALS

WHEREAS, the CONTRACTOR who has demonstrated to be both responsive and responsible, and is authorized to conduct business in the Commonwealth of Virginia and is a licensed contractor in same, submitted a bid price for Invitation for Bids #753 in the amount of _____, and

WHEREAS, the COUNTY has awarded the contract to _____ in the amount of _____

NOW, THEREFORE, for and in consideration of the mutual promises contained herein and for other good and valuable consideration, the parties agree to the terms herein.

2. CONTRACTOR TO PROVIDE SERVICES TO COUNTY

The COUNTY hereby engages the CONTRACTOR and CONTRACTOR hereby agrees to provide the following: "_____" - as described in the Scope of Work and according to the Specifications and Drawings in Accomack County Invitation for Bids #753. All work by the CONTRACTOR shall be performed in a workmanlike manner.

3. TERM OF CONTRACT

The CONTRACTOR agrees to commence work no later than thirty (30) days after the COUNTY issues a Notice to Proceed. The CONTRACTOR shall provide the COUNTY a start date within 10 days of CONTRACTOR's receipt of Notice to Proceed and the project shall be completed no later than one hundred fifty (150) calendar days from the date of issue of Notice To Proceed.

4. COMPENSATION

The COUNTY shall compensate the CONTRACTOR the sum of _____ for performance and completion of the services described in this Contract. Progress payments shall be made subject to inspections and approval by the project engineer and the COUNTY and in accordance with the COUNTY'S Accounts Payable Cycle. The COUNTY'S payable terms are "Net 45," meaning that the COUNTY shall have 45 days after receipt of an invoice for payment to remit same.

For each progress payment made prior to completion of the Work, The COUNTY may hold five percent (5%) retainage from the payment until the CONTRACTOR has completed the work required under this Contract. Prior to final payment, the COUNTY shall conduct a final inspection of the work. Funds due and all retained funds will be released upon satisfactory completion of all work approved by the COUNTY.

The County of Accomack will not pay any finance charges imposed on any invoices submitted by the CONTRACTOR relative to this Contract.

5. SCOPE OF WORK

The CONTRACTOR agrees to provide the services listed in Invitation for Bids #753 and specified on the Drawings in the Invitation for Bids #753.

6. ENUMERATION OF CONTRACT DOCUMENTS

This CONTRACT is comprised of this agreement and the following documents, which are attached hereto as part of this Contract or are incorporated by reference herein:

- a. Invitation for Bids #753
- b. Drawings:
 - T100- Title Sheet
 - D101 – Selective Demolition Roof Plan
 - D201 – Selective Demolition Elevations
 - D202 – Selective Demolition Elevations
 - AS100- -Site Plan
 - A103 – Roof Plan
 - A104 – Roof Details
 - A105 – Roof Details
 - A201 – Building Elevations
 - A202 – Building Elevations
- c. Accomack County's General Terms & Conditions

7. TRANSFER, ASSIGNMENT, AND SUBLETTING OF CONTRACT

The CONTRACTOR agrees that it shall not transfer, assign, or sublet the Contract, or any part thereof, or any interest therein, except as indicated in the CONTRACTOR'S "Bid" without first receiving prior written approval from the COUNTY. CONTRACTOR further agrees that any such

assignment or transfer without prior written approval by the COUNTY shall not release the CONTRACTOR from any responsibility of liability as set forth in this Contract.

8. INDEMNIFICATION AND CONDITIONS

- A) The CONTRACTOR is an independent contractor and, as such, is not and shall not be construed to be an agent or employee of the COUNTY. The CONTRACTOR agrees to indemnify, hold harmless and defend the COUNTY at the CONTRACTOR'S expense from and against any and all liability for loss, damage, or expense for which it may be held liable by reason of injury, including death, to any person or damage to any property arising out of or in any manner connected with the work to be performed under this Contract, or costs and expenses for, or on account of, any patented or copyrighted equipment, materials, articles or processes used in the performance of this Contract.
- B) Upon execution of this Contract, and thereafter no less than fifteen (15) days prior to the expiration date of any insurance policy delivered pursuant to this Contract, the CONTRACTOR shall deliver to the COUNTY a certificate(s) of insurance in compliance with Accomack County's General Terms & Conditions, Item #4.
- C) Each policy of insurance shall be issued by financially responsible insurers duly licensed to do business in the Commonwealth of Virginia.
- D) Each policy of insurance shall include a waiver of subrogation in favor of the County and shall provide no less than thirty (30) days' notice to the County in the event of a cancellation or change in conditions or amounts of coverage.
- E) The CONTRACTOR shall be responsible at its own expense for obtaining all necessary federal, state and county permits for the work to be performed under this Contract.
- F) The CONTRACTOR shall obtain all required federal, state and county licenses for the work to be performed under this Contract, including without limitation, a business license from Accomack County. The CONTRACTOR shall dispose of all materials resulting from this work in a manner in compliance with all federal, state and county laws, ordinances, and regulations. The CONTRACTOR agrees that under no circumstance will debris resulting from any necessary demolition be burned on site. The CONTRACTOR may contact the Project Manager to obtain a waiver of landfill tipping fees with at least a 24-hour notice. (See Item 13, Point of Contact.)

9. MODIFICATION

This Contract constitutes the entire understanding of the parties and shall not be amended, modified, or otherwise changed except by the written consent of the CONTRACTOR and the COUNTY given in the same manner and form as the original signing of the Contract.

10. MISREPRESENTATION OR DEFAULT

The COUNTY may void this Contract if the CONTRACTOR has materially misrepresented any offering or if the CONTRACTOR defaults on any contract with a Virginia locality.

11. CANCELLATION

If the CONTRACTOR does not pay its debts as they become due or if a receiver shall be appointed for its business or its assets and not voided within forty-five (45) days, or if the CONTRACTOR shall make an assignment for the benefit of creditors, or otherwise, or if interest herein shall be sold under execution or if it shall be adjudicated insolvent or bankrupt then and forthwith thereafter, the

COUNTY shall have the right at its option and without prejudice to its right hereunder to terminate the Contract and withhold any payments due.

If the CONTRACTOR fails to perform in accordance with the terms of this Contract, or if the COUNTY reasonably doubts that the CONTRACTOR'S work is progressing in such a manner as to ensure compliance with the scope of services set forth in this Contract, Section 5 above, the COUNTY shall have the right, in addition to all other remedies it may have, upon seven (7) days written notice to the CONTRACTOR to declare the Contract in default and thereby terminated.

12. LIQUIDATED DAMAGES

If the CONTRACTOR fails to complete the project as indicated in Invitation for Bids #753 within one hundred fifty (150) days of issuance of the Notice To Proceed , the COUNTY shall receive from the CONTRACTOR \$250 per calendar day in liquidated damages unless an extension has been granted in writing by the COUNTY. The COUNTY may deduct such liquidated damages from amounts that otherwise would be due and owing to the CONTRACTOR under this Contract.

13. POINT OF CONTACT

Upon receipt of Notice to Proceed, the CONTRACTOR'S point of contact for the project shall be Andy Nunnally, Deputy Director of Public Works. 757-789-9236 or anunnally@co.accomack.va.us.

Engineer of Record:

VIA Design
319 E Plume St.
Norfolk, VA 23510
757-627-1489

14. NOTICES

All notices and other communications required or permitted by this Contract shall be in writing and shall be given either by personal delivery, facsimile or certified United States mail, return receipt requested, addressed as follows:

COUNTY

Michael T. Mason, County Administrator
County of Accomack Virginia
P.O. Box 388
Accomac, VA 23301

CONTRACTOR

IN WITNESS HEREOF, THE COUNTY OF ACCOMACK, VIRGINIA AND _____ have executed this contract on the date first above-mentioned.

COUNTY OF ACCOMACK, VIRGINIA
(COUNTY)

(CONTRACTOR)

BY: Michael T. Mason, CPA

BY:

(NAME)

(NAME)

ITS: County Administrator

ITS:

(TITLE)

(TITLE)

SIGNATURE:

SIGNATURE:

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SECTION 011000 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Coordination with occupants.
 - 4. Work restrictions.
 - 5. Specification and Drawing conventions.

1.3 PROJECT INFORMATION

- A. Project Identification: 19043-08.
 - 1. Project Location: 23371 Front St., Accomack, Virginia, 23301, United States.
- B. Owner: Accomack County .
 - 1. Owner's Representative: Andy Nunnally, anunnally@co.accomack.va.us, 757-787-1468 .
- C. Architect: VIA design architects, pc, 319 E Plume Street, Norfolk, Virginia, 23510.
 - 1. Architect's Representative: VIA design architects.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and includes, but is not limited to, the following:
 - 1. Roof re-cover and other Work indicated in the Contract Documents.
- B. Type of Contract:
 - 1. Project will be constructed under a single prime contract.

1.5 COORDINATION WITH OCCUPANTS

- A. Full Owner Occupancy: Owner will occupy Project site and existing building(s) during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.
 - 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.
 - 2. Notify Owner not less than 72 hours in advance of activities that will affect Owner's operations.

1.6 WORK RESTRICTIONS

- A. Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public streets, work on public streets, rights of way, and other requirements of authorities having jurisdiction.
- B. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging for temporary utility services according to requirements indicated:
 - 1. Notify Owner not less than two days in advance of proposed utility interruptions.
 - 2. Obtain Owner's written permission before proceeding with utility interruptions.

1.7 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Text Color: Text used in the Specifications, including units of measure, manufacturer and product names, and other text may appear in multiple colors or underlined as part of a hyperlink; no emphasis is implied by text with these characteristics.
 - 3. Hypertext: Text used in the Specifications may contain hyperlinks. Hyperlinks may allow for access to linked information that is not residing in the Specifications. Unless otherwise indicated, linked information is not part of the Contract Documents.
 - 4. Specification requirements are to be performed by Contractor unless specifically stated otherwise.

- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 - 2. Abbreviations: Materials and products are identified by abbreviations scheduled on Drawings .
 - 3. Keynoting: Materials and products are identified by reference keynotes

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000

SECTION 024119 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition and removal of selected portions of building or structure.

1.2 DEFINITIONS

- A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to be reinstalled.
- B. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.
- C. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

1.3 MATERIALS OWNERSHIP

- A. Demolition waste may be taken to the Accomack County North Landfill. Waste not taken to the landfill becomes property of Contractor.

1.4 INFORMATIONAL SUBMITTALS

- A. Predemolition Photographs or Video: Show existing conditions of adjoining construction, including finish surfaces, that might be misconstrued as damage caused by salvage and demolition operations. Comply with Section 013233 "Photographic Documentation." Submit before Work begins.

1.5 FIELD CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
- C. Notify Owner of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
- E. 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.

1.6 COORDINATION

- A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

PART 2 - PRODUCTS

2.1 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.
- B. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

3.2 PROTECTION

- A. Temporary Protection: 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.
- B. Remove temporary barricades and protections where hazards no longer exist.

3.3 SELECTIVE DEMOLITION, GENERAL

- A. General: 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. 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.
 2. 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. Temporarily cover openings to remain.
 3. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
 4. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
 5. Dispose of demolished items and materials promptly.
- B. 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.
- C. Removed and Reinstalled Items:
1. Clean and repair items to functional condition adequate for intended reuse.
 2. Pack or crate items after cleaning and repairing. Identify contents of containers.
 3. Protect items from damage during transport and storage.
 4. 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.
 5. Lightning Protection System: remove and reinstall in place

3.4 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

- A. Roofing: Remove no more existing roofing than what can be covered in one day by new roofing and so that building interior remains watertight and weathertight. See Section 074113.16 Standing-Seam Metal Roof Panels & 075323 EPDM Roofing for new roofing requirements.
1. Reference drawings for extent of demolition for each existing roof type.

3.5 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove demolition waste materials from Project site and dispose of them at the Accomack County North Landfill. The County will waive the tipping fees for all materials removed from this project and delivered to the North Landfill (9400 Cutler Lane, Atlantic, VA 23303) by the contractor.
 - 1. Do not allow demolished materials to accumulate on-site.
 - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
 - 3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

3.6 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 024119

SECTION 070150.19 - PREPARATION FOR REROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. The Work of This Section Includes:

1. Full roof tear-off.
2. Roof re-cover preparation.

1.2 DEFINITIONS

- A. Full Roof Tear-off: Removal of existing roofing system down to existing roof deck .
- B. Roofing Terminology: Definitions in ASTM D1079 and glossary of NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" apply to work of this Section.
- C. Roof Re-Cover Preparation: Existing roofing system is to remain and be prepared for new roof installed over it.

1.3 PREINSTALLATION MEETINGS

A. Preliminary Roofing Conference: Before starting removal Work, conduct conference at Project site .

1. Meet with Owner, Architect, Construction Manager, Owner's insurer if applicable, roofing Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
2. Review methods and procedures related to roofing tear-off, including, but not limited to, the following:
 - a. Reroofing preparation, including roofing system manufacturer's written instructions.
 - b. Temporary protection requirements for existing roofing system components that are to remain.
 - c. Construction schedule and availability of materials, Installer's personnel, equipment, and facilities needed to avoid delays.
 - d. Existing roof deck conditions requiring Architect notification.
 - e. Existing roof deck removal procedures and Owner notifications.
 - f. Condition and acceptance of existing roof deck and base flashing substrate for reuse.
 - g. Base flashings, special roofing details, drainage, penetrations, equipment curbs, and condition of other construction that affect reroofing.
 - h. HVAC shutdown and sealing of air intakes.
 - i. Shutdown of fire-suppression, -protection, and -alarm and -detection systems.
 - j. Asbestos removal and discovery of asbestos-containing materials.
 - k. Governing regulations and requirements for insurance and certificates if applicable.

1. Existing conditions that may require Architect notification before proceeding.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.

1. Include certificate that Installer is approved by warrantor of new roofing system.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Approved by warrantor of new roofing system to work on existing roofing .

1.7 FIELD CONDITIONS

- A. Existing Roofing System: SBS-modified bituminous, , Asfalt shingle roofing.

- B. Owner will occupy portions of building immediately below reroofing area.

1. Conduct reroofing so Owner's operations are not disrupted.
2. Provide Owner with not less than 72 hours' written notice of activities that may affect Owner's operations.
3. Coordinate work activities daily with Owner so Owner has adequate advance notice to place protective dust and water-leakage covers over sensitive equipment and furnishings, shut down HVAC and fire-alarm or -detection equipment if needed, and evacuate occupants from below work area.

- C. Protect building to be reroofed, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from reroofing operations.

- D. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.

- E. Conditions existing at time of inspection for bidding will be maintained by Owner as far as practical.

- F. Weather Limitations: Proceed with reroofing preparation only when existing and forecasted weather conditions permit Work to proceed without water entering existing roofing system or building.

1. Remove only as much roofing in one day as can be made watertight in the same day.

- G. Hazardous Materials:

1. It is not expected that hazardous materials, such as asbestos-containing materials, will be encountered in the Work.
 - a.
 - b.
2. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner.
 - a. Hazardous materials will be removed by Owner under a separate contract.

PART 2 - PRODUCTS

2.1 AUXILIARY REROOFING MATERIALS

- A. General: Use auxiliary reroofing preparation materials recommended by roofing system manufacturer for intended use and compatible with components of existing and new roofing system.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Coordinate with Owner to shut down air-intake equipment in the vicinity of the Work.
 1. 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.

3.2 ROOF TEAR-OFF

- A. Notify Owner each day of extent of roof tear-off proposed for that day.
- B. Lower removed roofing materials to ground and onto lower roof levels, using dust-tight chutes or other acceptable means of removing materials from roof areas.
- C. Full Roof Tear-off: Where indicated on Drawings, remove existing roofing and other roofing system components down to the existing roof deck .
 1. Remove base flashings and counter flashings.
 2. Remove perimeter edge flashing and gravel stops.
 3. Remove flashings at pipes, curbs, mechanical equipment, and other penetrations.

3.3 DECK PREPARATION

- A. Inspect deck after tear-off of roofing system.

- B. If broken or loose fasteners that secure deck panels to one another or to structure are observed, or if deck appears or feels inadequately attached, immediately notify Owner.
 - 1. Do not proceed with installation until directed by Owner.
- C. If deck surface is unsuitable for receiving new roofing or if structural integrity of deck is suspect, immediately notify Owner.
 - 1. Do not proceed with installation until directed by Owner.

3.4 ROOF RE-COVER PREPARATION

- A. Remove blisters, ridges, buckles, and other substrate irregularities from existing roofing that inhibit new recover boards from conforming to substrate.

END OF SECTION 070150.19

SECTION 074113.16 - STANDING-SEAM METAL ROOF PANELS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Standing-seam metal roof panels.

1.2 ACTION SUBMITTALS

- A. Product Data: For standing-seam metal roof panels. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.
- B. Shop Drawings:
 - 1. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
 - 2. Accessories: Include details of the flashing, trim, and anchorage systems, at a scale of not less than 1-1/2 inches per 12 inches.
- C. Samples for Initial Selection: For each type of metal panel indicated with factory-applied color finishes.
 - 1. Include similar Samples of trim and accessories involving color selection.

1.3 INFORMATIONAL SUBMITTALS

- A. Sample Warranties: For special warranties.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For metal panels to include in maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
- B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.
- C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.
- D. Retain strippable protective covering on metal panels during installation.

1.7 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed according to manufacturers' written instructions and warranty requirements.

1.8 COORDINATION

- A. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.
- B. Coordinate metal panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.9 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including rupturing, cracking, or puncturing.
 - b. Deterioration of metals and other materials beyond normal weathering.
 - 2. Warranty Period: 25 years from date of Substantial Completion.
- B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Delta E units when tested according to ASTM D2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D4214.

- c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 2. Finish Warranty Period: 35 years from date of Substantial Completion.
- C. Special Weathertightness Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace standing-seam metal roof panel assemblies that fail to remain weathertight, including leaks, within specified warranty period.
1. Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Water Penetration under Static Pressure: No water penetration when tested according to ASTM E1646 at the following test-pressure difference:
1. Test-Pressure Difference: 2.86 lbf/sq. ft.
- B. Wind-Uplift Resistance: Provide metal roof panel assemblies that comply with UL 580 for wind-uplift-resistance class indicated.
1. Uplift Rating: UL 60 .

2.2 STANDING-SEAM METAL ROOF PANELS

- A. Provide factory-formed metal roof panels designed to be installed by lapping and interconnecting raised side edges of adjacent panels with joint type indicated and mechanically attaching panels to supports using concealed clips in side laps. Include clips, cleats, pressure plates, and accessories required for weathertight installation.
1. Steel Panel Systems: Unless more stringent requirements are indicated, comply with ASTM E1637.
- B. Vertical-Rib, Snap-Joint, Standing-Seam Metal Roof Panels : Formed with vertical ribs at panel edges and a flat pan between ribs; designed for sequential installation by mechanically attaching panels to supports using concealed clips located under one side of panels, engaging opposite edge of adjacent panels, and snapping panels together.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Drexel Metals DMC 175S or approved equal
 2. Steel Sheet: Coil-coated sheet, ASTM B209, alloy as standard with manufacturer, with temper as required to suit forming operations and structural performance required.
 - a. Thickness: 22 Gauge.
 - b. Surface: Smooth, flat finish.
 - c. Exterior Finish: Two-coat fluoropolymer .
 - d. Color: As selected by Owner from manufacturer's full range .
 3. Clips: One-piece fixed to accommodate thermal movement.

- a. 0.0625-inch- thick, stainless steel sheet.
4. Panel Coverage: 16 inches .
5. Panel Height: 1.75 inches .

2.3 UNDERLAYMENT MATERIALS

- A. Self-Adhering, High-Temperature Underlayment: Provide self-adhering, cold-applied, sheet underlayment, a minimum of 30 mils thick, consisting of slip-resistant, polyethylene-film top surface laminated to a layer of butyl or SBS-modified asphalt adhesive, with release-paper backing. Provide primer when recommended by underlayment manufacturer.
1. Thermal Stability: Stable after testing at 240 deg F; ASTM D1970.
 2. Low-Temperature Flexibility: Passes after testing at minus 20 deg F; ASTM D1970.
 3. Basis-of-Design Product: Subject to compliance with requirements, provide Drexel Metals; MetShield HT or comparable product by one of the following:
 - a. Carlisle WIP Products; a brand of Carlisle Construction Materials.
 - b. Owens Corning.
 - c. Polyglass U.S.A., Inc.

2.4 MISCELLANEOUS MATERIALS

- A. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
1. Closures: Provide closures at eaves and ridges, fabricated of same metal as metal panels.
 2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
 3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
- B. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.
- C. Panel Fasteners: Self-tapping screws designed to withstand design loads.
- D. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.

2. Joint Sealant: ASTM C920; elastomeric polyurethane or silicone sealant; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended in writing by metal panel manufacturer.

2.5 FABRICATION

- A. Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
- B. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.
 1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
 2. Seams for Steel: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints for additional strength.
 3. Seams for Other Than Aluminum: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.
 4. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
 5. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
 6. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.
 - a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal panel manufacturer for application, but not less than thickness of metal being secured.

2.6 FINISHES

- A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in same piece are unacceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Steel Panels and Accessories:
 1. Two-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat. Prepare, pretreat,

and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.
 - 1. Examine solid roof sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal roof panel manufacturer.
 - a. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
- B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF UNDERLAYMENT

- A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated below, wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches staggered 24 inches between courses. Overlap side edges not less than 3-1/2 inches. Roll laps with roller. Cover underlayment within manufacturer's standard timeframe.
 - 1. Apply over the entire roof surface receiving metal roof type RI as designated on drawings.
- B. Flashings: Install flashings to cover underlayment to comply with requirements specified in Section 076200 "Sheet Metal Flashing and Trim."

3.3 INSTALLATION OF STANDING-SEAM METAL ROOF PANELS

- A. Install metal panels according to manufacturer's written instructions in orientation, sizes, and locations indicated. Install panels perpendicular to supports unless otherwise indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.
 - 1. Shim or otherwise plumb substrates receiving metal panels.
 - 2. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal panels are installed.

3. Install screw fasteners in predrilled holes.
 4. Locate and space fastenings in uniform vertical and horizontal alignment.
 5. Install flashing and trim as metal panel work proceeds.
 6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
 7. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
 8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.
- B. Fasteners:
1. Steel Panels: Use stainless steel fasteners for surfaces exposed to the exterior; use aluminum or galvanized-steel fasteners for surfaces exposed to the interior.
- C. Anchor Clips: Anchor metal roof panels and other components of the Work securely in place, using manufacturer's approved fasteners according to manufacturers' written instructions.
- D. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.
- E. Standing-Seam Metal Roof Panel Installation: Fasten metal roof panels to supports with concealed clips at each standing-seam joint at location, spacing, and with fasteners recommended in writing by manufacturer.
1. Install clips to supports with self-tapping fasteners.
 2. Install pressure plates at locations indicated in manufacturer's written installation instructions.
 3. Snap Joint: Nest standing seams and fasten together by interlocking and completely engaging factory-applied sealant.
 4. Watertight Installation:
 - a. Apply a continuous ribbon of sealant or tape to seal joints of metal panels, using sealant or tape as recommend in writing by manufacturer as needed to make panels watertight.
 - b. Provide sealant or tape between panels and protruding equipment, vents, and accessories.
 - c. At panel splices, nest panels with minimum 6-inch end lap, sealed with sealant and fastened together by interlocking clamping plates.
- F. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
1. Install components required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal roof panel manufacturers; or, if not indicated, types recommended by metal roof panel manufacturer.
- G. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed fasteners

where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that will be permanently watertight and weather resistant.

1. Install exposed flashing and trim that is without buckling and tool marks, and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof and weather-resistant performance.
2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a 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 weather resistant and waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).

- H. Pipe Flashing: Form flashing around pipe penetration and metal roof panels. Fasten and seal to metal roof panels as recommended by manufacturer.

3.4 ERECTION TOLERANCES

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

3.5 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and/or inspect metal roof panel installation, including accessories. Provide copy of report results.
- B. Remove and replace applications of metal roof panels where tests and/or inspections indicate that they do not comply with specified requirements.
- C. Additional tests and/or inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.
- D. Prepare test and inspection reports.

3.6 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
- B. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

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trict Court Reroofing

SECTION 074113.16 -
STANDING-SEAM METAL
ROOF PANELS

END OF SECTION 074113.16

SECTION 075323 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Ethylene-propylene-diene-terpolymer (EPDM) roofing.
2. Insulation accessories and cover board.

B. Related Requirements:

1. Section 076200 "Sheet Metal Flashing and Trim" for metal roof flashings and counterflashings.

1.2 DEFINITIONS

- A. Roofing Terminology: Definitions in ASTM D1079 and glossary of NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" apply to work of this Section.

1.3 PREINSTALLATION MEETINGS

1.4 ACTION SUBMITTALS

A. Product Data:

1. Ethylene-propylene-diene-terpolymer (EPDM) roofing.
2. Insulation accessories and cover board.

B. Shop Drawings: Include roof plans, sections, details, and attachments to other work, including the following:

1. Base flashings and membrane terminations.
2. Flashing details at penetrations.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
 - 1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.7 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed in accordance with manufacturer's written instructions and warranty requirements.

1.8 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
 - 1. Special warranty includes roof membrane, base flashings, fasteners, cover boards, and other components of roofing system.
 - 2. Warranty Period: 25 years from Date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General Performance: Installed roofing system and base flashings to withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roofing and flashings to remain watertight.

1. Accelerated Weathering: Roof membrane to withstand 2000 hours of exposure when tested in accordance with ASTM G152, ASTM G154, or ASTM G155.
 2. Impact Resistance: Roof membrane to resist impact damage when tested in accordance with ASTM D3746, ASTM D4272, or the "Resistance to Foot Traffic Test" in FM Approvals 4470.
- B. Material Compatibility: Roofing materials to be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.
- C. SPRI's Directory of Roof Assemblies Listing: Roof membrane, base flashings, and component materials comply with requirements in FM Approvals 4450 or FM Approvals 4470 as part of a roofing system, and are listed in SPRI's Directory of Roof Assemblies for roof assembly identical for that specified for this Project.
1. Wind Uplift Load Capacity: 75 psf .

2.2 ETHYLENE-PROPYLENE-DIENE-TERPOLYMER (EPDM) ROOFING

- A. Fabric-Backed EPDM Sheet: ASTM D4637/D4637M, Type III, nonreinforced, EPDM sheet, laminated to a nonwoven polyester fabric backing except at selvages with factory-applied seam tape.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Carlisle Syntec Systems; FleeceBACK EPDM or comparable product by one of the following:
 - a. Versico Roofing Systems; Carlisle Construction Materials.
 2. Composite Thickness: 100 mils , nominal.
 3. Exposed Face Color: White on black .

2.3 INSULATION ACCESSORIES AND COVER BOARD

- A. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation and cover boards to substrate, and acceptable to roofing system manufacturer.
- B. Polyisocyanurate Insulation Cover Board: ASTM C1289 Type II, Class 4, Grade 1, 1/2 inch thick, with a minimum compressive strength of 80 psi.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing system installation in accordance with roofing system manufacturer's written instructions. Remove sharp projections.

3.2 INSTALLATION OF ROOFING, GENERAL

- A. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

3.3 INSTALLATION OF COVER BOARDS A.

- 1. Trim cover board neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
- 2. Cut and fit cover board tight to nailers, projections, and penetrations.

3.4 INSTALLATION OF ADHERED ROOF MEMBRANE

- A. Adhere roof membrane over area to receive roofing in accordance with roofing system manufacturer's written instructions.
- B. Unroll membrane roof membrane and allow to relax before installing.
- C. Accurately align roof membrane, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- D. Fabric-Backed Roof Membrane Adhesive: Apply to substrate at rate required by manufacturer, and install fabric-backed roof membrane.
- E. In addition to adhering, mechanically fasten roof membrane securely at terminations, penetrations, and perimeters.
- F. Apply roof membrane with side laps shingled with slope of roof deck where possible.
- G. Factory-Applied Seam Tape Installation: Clean and prime surface to receive tape.
 - 1. Firmly roll side and end laps of overlapping roof membrane to ensure a watertight seam installation.
 - 2. Apply lap sealant and seal exposed edges of roofing terminations.
- H. Repair tears, voids, and lapped seams in roof membrane that do not comply with requirements.
- I. Spread sealant or mastic bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.

3.5 INSTALLATION OF BASE FLASHING

- A. Install sheet flashings and preformed flashing accessories, and adhere to substrates in accordance with roofing system manufacturer's written instructions.

- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean splice areas, apply splicing cement, and firmly roll side and end laps of overlapping sheets to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of sheet flashing terminations.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.6 INSTALLATION OF COATINGS

3.7 PROTECTING AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing system, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and in accordance with warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 075323

SECTION 076200 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Low-slope roof sheet metal fabrications.

B. Related Requirements:

1. Section 074113.16 "Standing-Seam Metal Roof Panels " for materials and installation of sheet metal flashing and trim integral with roofing.
2. Section 077100 "Roof Specialties" for manufactured copings, roof-edge specialties, roof-edge drainage systems, reglets, and counterflashings.

1.2 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 leakproof, secure, and noncorrosive installation.

1.3 ACTION SUBMITTALS

A. Product Data:

1. Low-slope roof sheet metal fabrications.

- B. Samples for Initial Selection: For each type of sheet metal and accessory indicated with factory-applied finishes.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage.

1. Store sheet metal flashing and trim materials away from uncured concrete and masonry.
2. Protect stored sheet metal flashing and trim from contact with water.

- B. 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

2.1 PERFORMANCE REQUIREMENTS

- A. Sheet metal flashing and trim assemblies, including cleats, anchors, and fasteners, are to 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 are not to rattle, leak, or loosen, and are to remain watertight.

2.2 SHEET METALS

- A. Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.
- B. Steel Sheet: ASTM B209, alloy as standard with manufacturer for finish required, with temper as required to suit forming operations and performance required; with smooth, flat surface.
 - 1. Exposed Coil-Coated Finish:
 - a. Two-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 - 2. Color: As selected by Owner from manufacturer's full range.

2.3 MISCELLANEOUS MATERIALS

- A. 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, annular threaded nails, 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. Fasteners for Steel Sheet: Aluminum or Series 300 stainless steel.

2.4 FABRICATION, GENERAL

- A. Custom fabricate sheet metal flashing and trim to comply with details indicated and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required.
 - 1. Fabricate sheet metal flashing and trim in shop to greatest extent possible.
 - 2. 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.

3. Verify shapes and dimensions of surfaces to be covered and obtain field measurements for accurate fit before shop fabrication.
4. 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.
5. Conceal fasteners and expansion provisions where possible. Do not use exposed fasteners on faces exposed to view.

B. Fabrication Tolerances:

1. 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.

D. Sealant Joints: Where movable, nonexpansion-type joints are required, form metal in accordance with cited sheet metal standard to provide for proper installation of elastomeric sealant.

E. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.

F. Fabricate cleats and attachment devices of sizes as recommended by cited sheet metal standard and by FM Global Property Loss Prevention Data Sheet 1-49 for application, but not less than thickness of metal being secured.

G. Seams:

1. 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.

H. Do not use graphite pencils to mark metal surfaces.

2.5 LOW-SLOPE ROOF SHEET METAL FABRICATIONS

A. Roof Edge Flashing (Gravel Stop) and Fascia Cap: Fabricate in minimum 96-inch- long, but not exceeding 12-foot- long sections. Furnish with 6-inch- wide, joint cover plates. Shop fabricate interior and exterior corners.

1. Joint Style: Overlapped, 4 inches wide .
2. Fabricate from the following materials:
 - a. Steel: 24 gauge

B. Base Flashing: Shop fabricate interior and exterior corners. Fabricate from the following materials:

1. Steel: 24 gauge.

- C. Counterflashing: Shop fabricate interior and exterior corners. Fabricate from the following materials:
 - 1. Steel: 24 gauge.

2.6 MISCELLANEOUS SHEET METAL FABRICATIONS

- A. Equipment Support Flashing: Fabricate from the following materials:
 - 1. Steel: 24 gauge.

PART 3 - EXECUTION

3.1 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.
 - 3. Verify that air- or water-resistant barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Install sheet metal flashing and trim to comply with details indicated and recommendations of cited sheet metal standard that apply to installation characteristics required unless otherwise indicated on Drawings.
 - 1. Install fasteners, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
 - 2. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of sealant.
 - 3. Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement.
 - 4. Install sheet metal flashing and trim to fit substrates and to result in watertight performance.
 - 5. Install continuous cleats with fasteners spaced not more than 12 inches o.c.
 - 6. Install exposed sheet metal flashing and trim with limited oil-canning, and free of buckling and tool marks.
 - 7. Do not field cut sheet metal flashing and trim by torch.
 - 8. 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.
- C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim.
 - 1. Space movement joints at maximum of 10 feet with no joints within 24 inches of corner or intersection.
 - 2. Form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with sealant concealed within joints.
- D. Fasteners: Use fastener sizes that penetrate substrate not less than recommended by fastener manufacturer to achieve maximum pull-out resistance .
- E. 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.
- F. Seal joints as required for watertight construction.
 - 1. Use sealant-filled joints unless otherwise indicated.
 - a. Embed hooked flanges of joint members not less than 1 inch into sealant.
 - b. Form joints to completely conceal sealant.
 - c. When ambient temperature at time of installation is between 40 and 70 deg F, set joint members for 50 percent movement each way.
 - d. Adjust setting proportionately for installation at higher ambient temperatures.
 - 1) Do not install sealant-type joints at temperatures below 40 deg F.

3.3 INSTALLATION OF ROOF FLASHINGS

- A. Install sheet metal flashing and trim to comply with performance requirements , sheet metal manufacturer's written installation instructions, and cited sheet metal standard.
 - 1. Provide concealed fasteners where possible, and set units true to line, levels, and slopes.
 - 2. Install work with laps, joints, and seams that are permanently watertight and weather resistant.
- B. Roof Edge Flashing:
 - 1. Install roof edge flashings in accordance with ANSI/SPRI/FM 4435/ES-1.
 - 2. Anchor to resist uplift and outward forces in accordance with recommendations in cited sheet metal standard unless otherwise indicated. Interlock bottom edge of roof edge flashing with continuous cleat anchored to substrate at staggered 3-inch centers.
 - 3. Anchor to resist uplift and outward forces in accordance with recommendations in FM Global Property Loss Prevention Data Sheet 1-49 for FM Approvals' listing for required windstorm classification.

- C. Pipe or Post Counterflashing: Install counterflashing umbrella with close-fitting collar with top edge flared for elastomeric sealant, extending minimum of 4 inches over base flashing. Install stainless steel draw band and tighten.
- D. Counterflashing: Coordinate installation of counterflashing with installation of base flashing.
 - 1. Insert counterflashing in reglets or receivers and fit tightly to base flashing.
 - 2. Extend counterflashing 4 inches over base flashing.
 - 3. Lap counterflashing joints minimum of 4 inches.
 - 4. Secure in waterproof manner by means of snap-in installation and sealant or lead wedges and sealant unless otherwise indicated.

3.4 INSTALLATION OF MISCELLANEOUS FLASHING

- A. Equipment Support Flashing:
 - 1. Coordinate installation of equipment support flashing with installation of roofing and equipment.
 - 2. Weld or seal flashing with elastomeric sealant to equipment support member.

3.5 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.

3.6 CLEANING

- A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
- B. Clean off excess sealants.

3.7 PROTECTION

- A. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions.
- B. On completion of sheet metal flashing and trim installation, remove unused materials and clean finished surfaces as recommended in writing by sheet metal flashing and trim manufacturer.
- C. 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, as determined by Architect.

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trict Court Reroofing

SECTION 076200 - SHEET
METAL FLASHING AND
TRIM

END OF SECTION 076200

SECTION 077100 - ROOF SPECIALTIES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Roof-edge drainage systems.

B. Related Requirements:

1. Section 074113.16 "Standing-Seam Metal Roof Panels" for roof-edge drainage-system components provided by metal-roof-panel manufacturer.
2. Section 076200 "Sheet Metal Flashing and Trim" for custom- and site-fabricated sheet metal flashing and trim.
3. Section 077200 "Roof Accessories" for set-on-type curbs, equipment supports, roof hatches, vents, and other manufactured roof accessory units.

1.2 ACTION SUBMITTALS

A. Product Data:

1. Roof-edge drainage systems.

B. Shop Drawings: For roof specialties.

1. Include plans, elevations, expansion-joint locations, keyed details, and attachments to other work. Distinguish between plant- and field-assembled work.
2. Include details for expansion and contraction; locations of expansion joints, including direction of expansion and contraction.
3. Indicate profile and pattern of seams and layout of fasteners, cleats, clips, and other attachments.
4. Detail termination points and assemblies, including fixed points.
5. Include details of special conditions.

C. Samples for Initial Selection: For each type of roof specialty indicated with factory-applied color finishes.

1.3 DELIVERY, STORAGE, AND HANDLING

A. Do not store roof specialties in contact with other materials that might cause staining, denting, or other surface damage. Store roof specialties away from uncured concrete and masonry.

B. Protect strippable protective covering on roof specialties from exposure to sunlight and high humidity, except to extent necessary for the period of roof-specialty installation.

1.4 FIELD CONDITIONS

- A. Field Measurements: Verify profiles and tolerances of roof-specialty substrates by field measurements before fabrication, and indicate measurements on Shop Drawings.
- B. Coordination: Coordinate roof specialties with flashing, trim, and construction of parapets, roof deck, roof and wall panels, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.5 WARRANTY

- A. Special Warranty on Painted Finishes: Manufacturer agrees to repair finish or replace roof specialties that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Fluoropolymer Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Delta E units when tested in accordance with ASTM D2244.
 - b. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 - 2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General Performance: Roof specialties to withstand exposure to weather and resist thermally induced movement without failure, rattling, leaking, or fastener disengagement due to defective manufacture, fabrication, installation, or other defects in construction.

2.2 ROOF-EDGE DRAINAGE SYSTEMS

- A. Gutters: Manufactured in uniform section lengths not exceeding 12 feet , with matching corner units, ends, outlet tubes, and other accessories. Elevate back edge at least 1 inch above front edge. Furnish flat-stock gutter straps, gutter brackets, expansion joints, and expansion-joint covers fabricated from same metal as gutters.
 - 1. Steel Sheet: 24 gauge.
 - 2. Gutter Profile: Match existing in accordance with SMACNA's "Architectural Sheet Metal Manual."
 - 3. Corners: Factory mitered and mechanically clinched and sealed watertight.
 - 4. Gutter Supports: Manufacturer's standard supports as selected by Architect with finish matching the gutters.
- B. Downspouts: Plain rectangular complete with machine-crimped elbows, manufactured from the following exposed metal. Furnish with metal hangers, from same material as downspouts, and anchors.

1. Extruded Steel: 24 gauge.
- C. Steel Finish: Two-coat fluoropolymer .
 1. Color: As selected by Owner from manufacturer's full range .

2.3 MATERIALS

- A. Galvanized Steel Sheet: ASTM A653/A653M, G90 coating designation.

2.4 MISCELLANEOUS MATERIALS

- A. Fasteners: Manufacturer's recommended fasteners, suitable for application and designed to meet performance requirements. Furnish the following unless otherwise indicated:
 1. Exposed Penetrating Fasteners: Gasketed screws with hex washer heads matching color of sheet metal.
 2. Fasteners for Galvanized Steel: Series 300 stainless steel or hot-dip zinc-coated steel in accordance with ASTM A153/A153M or ASTM F2329.
- B. Gutter Sealant: Provide Butyl sealant at gutter joints for watertightness.

2.5 FINISHES

- A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls, roof edges, and parapets for suitable conditions for roof specialties.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Install roof specialties in accordance with manufacturer's written instructions. Anchor roof specialties securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective coatings, separators, underlayments, sealants, and other miscellaneous items as required to complete roof-specialty systems.
 1. Install roof specialties level, plumb, true to line and elevation; with limited oil-canning and without warping, jogs in alignment, buckling, or tool marks.

2. Provide uniform, neat seams with minimum exposure of solder and sealant.
 3. Install roof specialties to fit substrates and to result in weathertight performance. Verify shapes and dimensions of surfaces to be covered before manufacture.
 4. Torch cutting of roof specialties is not permitted.
 5. Do not use graphite pencils to mark metal surfaces.
- B. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.
- C. Fastener Sizes: Use fasteners of sizes that penetrate wood blocking or sheathing not less than 1-1/4 inches for nails and not less than 3/4 inch for wood screws substrate not less than recommended by fastener manufacturer to achieve maximum pull-out resistance .
- D. Seal joints as required for weathertight construction. Place sealant to be completely concealed in joint. Do not install sealants at temperatures below 40 deg F.

3.3 INSTALLATION OF ROOF-EDGE DRAINAGE SYSTEMS

- A. Install components to produce a complete roof-edge drainage system in accordance with manufacturer's written instructions. Coordinate installation of roof perimeter flashing with installation of roof-edge drainage system.
- B. Gutters: Join and seal gutter lengths. Allow for thermal expansion. Attach gutters with fasteners spaced not more than 12 inches apart. Attach ends with rivets and seal with sealant to make watertight. Slope to downspouts.
- C. Downspouts: Join sections with manufacturer's standard telescoping joints. Provide hangers with fasteners designed to hold downspouts securely to walls and 1 inch away from walls; locate fasteners at top and bottom and at approximately 60 inches o.c.
1. Provide elbows at base of downspouts at grade to direct water away from building.
 2. Connect downspouts to underground drainage system indicated.

3.4 CLEANING AND PROTECTION

- A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.
- B. Clean and neutralize flux materials. Clean off excess solder and sealants.
- C. Remove temporary protective coverings and strippable films as roof specialties are installed. On completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet stems, and pieces of flashing. Maintain roof specialties in a clean condition during construction.
- D. Replace roof specialties that have been damaged or that cannot be successfully repaired by finish touchup or similar minor repair procedures.

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trict Court Reroofing

SECTION 077100 - ROOF
SPECIALTIES

END OF SECTION 077100

SECTION 077253 - SNOW GUARDS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Pad-type, seam-mounted snow guards.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product, include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Shop Drawings: Include roof plans showing layouts and attachment details of snow guards.
- C. Samples:
 - 1. Pad-Type Snow Guards: Full-size unit.
 - a. For units with factory-applied finishes, submit manufacturer's standard color selections .

1.4 INFORMATIONAL SUBMITTALS

1.5 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit adhesive-mounted snow guards to be installed according to adhesive manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Performance Requirements: Provide snow guards that withstand exposure to weather and resist thermally induced movement without failure, rattling, or fastener disengagement due to defective manufacture, fabrication, installation, or other defects in construction.

1. Temperature Change: 120 deg F , ambient; 180 deg F , material surfaces .
- B. Structural Performance: Snow guards shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated.
 1. Snow Loads: .

2.2 PAD-TYPE SNOW GUARDS

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances, snow guard attachment, and other conditions affecting performance of the Work.
 1. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean and prepare substrates for bonding snow guards.
- B. Prime substrates according to snow guard manufacturer's written instructions.

3.3 INSTALLATION

- A. Install snow guards according to manufacturer's written instructions.
 1. Space rows as recommended by manufacturer.
- B. Attachment for Standing-Seam Metal Roofing:
 1. Do not use fasteners that will penetrate metal roofing or fastening methods that void metal roofing finish warranty.
 2. Seam-Mounted, Pad-Type Snow Guards:
 - a. Install snow guards in straight rows.
 - b. Secure in place using stainless-steel set screws, incorporating round nonpenetrating point.
 - c. Torque set screw according to manufacturer's instructions.

END OF SECTION 077253

SECTION 099600 - HIGH-PERFORMANCE COATINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes surface preparation and the application of high-performance coating systems [.] on the following substrates:
 - 1. Exterior Substrates:
 - a. Steel (Existing Guardrail)

1.3 DEFINITIONS

- A. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D 523.
- B. MPI Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- C. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
 - 1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
 - 2. Indicate VOC content.
- B. Samples for Initial Selection: For each type of topcoat product indicated.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.
 - 1. Maintain containers in clean condition, free of foreign materials and residue.
 - 2. Remove rags and waste from storage areas daily.

1.6 FIELD CONDITIONS

- A. Apply coatings only when temperature of surfaces to be coated and ambient air temperatures are between 50 and 95 deg F.
- B. Do not apply coatings when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.
- C. Do not apply exterior coatings in snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Behr Paint Company; Behr Process Corporation.
 - 2. Benjamin Moore & Co.
 - 3. PPG Paints; PPG Industries, Inc.
 - 4. Sherwin-Williams Company (The).
- B. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in the Exterior High-Performance Coating Schedule or Interior High-Performance Coating Schedule for the coating category indicated.

2.2 HIGH-PERFORMANCE COATINGS, GENERAL

- A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
- B. Material Compatibility:
 - 1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
 - 2. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
 - 3. Products shall be of same manufacturer for each coat in a coating system.
- C. Colors: As selected by Architect from manufacturer's full range .

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.
- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and coating systems indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.
- D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer [,] but not less than the following:
 - 1. SSPC-SP 5/NACE No. 1.
- E. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied coatings.
- F. Aluminum Substrates: Remove loose surface oxidation.

3.3 APPLICATION

- A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
 - 1. Use applicators and techniques suited for coating and substrate indicated.

2. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
- C. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.

3.4 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from coating operation. Correct damage to work of other trades by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

3.5 EXTERIOR HIGH-PERFORMANCE COATING SCHEDULE

- A. Steel Substrates:
 1. Pigmented Polyurethane over Epoxy System MPI EXT 5.1H:
 - a. Prime Coat: Primer, epoxy, anti-corrosive, for metal , MPI #101.
 - 1) .
 - b. Intermediate Coat: Epoxy, gloss , MPI #77.
 - 1) .
 - c. First and Second Topcoat: Polyurethane, two component, pigmented, gloss (MPI Gloss Level 6) , MPI #72.
 - 1) .

END OF SECTION 099600