



**Indian River County Purchasing Division**

1800 27<sup>th</sup> Street

Vero Beach, FL 32960

Phone (772) 226-1416

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**CONTRACT DOCUMENTS AND  
SPECIFICATIONS  
FOR**

**INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING  
REPLACEMENT**

**BID NO. 2021033**

**PROJECT NO. IRC-2101**

PREPARED FOR  
THE BOARD OF COUNTY COMMISSIONERS  
INDIAN RIVER COUNTY, FLORIDA  
JOSEPH E. FLESCHER, CHAIRMAN  
PETER D. O'BRYAN, VICE-CHAIRMAN  
COMMISSIONER SUSAN ADAMS  
COMMISSIONER JOE EARMAN  
COMMISSIONER LAURA MOSS  
JASON E. BROWN, COUNTY ADMINISTRATOR  
JEFFREY R. SMITH, CLERK OF COURT AND COMPTROLLER  
DYLAN REINGOLD, COUNTY ATTORNEY  
RICHARD B. SZPYRKA, P.E., PUBLIC WORKS DIRECTOR



**Indian River County Purchasing Division**

1800 27<sup>th</sup> Street  
Vero Beach, FL 32960  
Phone (772) 226-1416

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**Invitation to Bid**

Project Name: INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT (IRC-2101)  
Bid #: 2021033  
Bid Bond Required: 5% if bid over \$35,000  
Public Construction Bond Required: Yes, if total award is over \$100,000  
Pre-Bid Meeting time/location: N/A

**Bid Opening Date: 4-1-2021**  
**Bid Opening Time: 2:00 P.M.**

**All bids must be received by the Purchasing Division, 1800 27<sup>th</sup> Street, Vero Beach, Florida 32960 prior to the date and time shown above. Late bids will not be accepted, opened or considered.**

PLEASE SUBMIT:  
(1) ONE MARKED ORIGINAL,  
(1) COPY OF YOUR BID

**Refer All Questions to:**  
Email: [purchasing@ircgov.com](mailto:purchasing@ircgov.com)

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## ADVERTISEMENT FOR BID

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Notice is hereby given that the Indian River County Board of County Commissioners is calling for and requesting bids for the following:

**Bid # 2021033**  
**INDIAN RIVER COURTHOUSE METAL ROOFING REPLACEMENT (IRC-2101)**

Project Description: *The project involves the replacement of the three (3) standing seam metal roofing assemblies located at three corners of the walkway entrances to the Indian River County Courthouse, located at 2000 16<sup>th</sup> Ave, Vero Beach, FL 32960. The project includes the removal and disposal of the existing roof system (approximately 1,166 square feet) including flashings, gutters and downspouts, and new plaster ceilings (approximately 972 square feet). The new roofing assembly shall provide a complete, watertight, 20-year warrantable roof system. All work must be completed as specified in the technical specification prepared by Jay Ammon Architect, Inc. dated 2/2/21 attached and incorporated by reference.*

Detailed specifications are available at: [www.demandstar.com](http://www.demandstar.com) or by selecting "Current Solicitations" at <http://www.ircgov.com/Departments/Budget/Purchasing>.

Deadline for receipt of bids has been set for **2:00 P.M. on April 1, 2021**. Only bids received on or before the time and date listed will be considered. Bids should be addressed to Purchasing Division, 1800 27<sup>th</sup> Street, Room B1-301, Vero Beach, Florida 32960. All bids will be opened publicly and read aloud at 2:00 PM. Bids submitted after 2:00 PM on the day specified above, will not be opened or considered.

BID SECURITY in the sum of not less than five percent (5%) of the total bid must accompany each bid over \$35,000.

The Board of County Commissioners reserves the right to cancel the bid, accept or reject any and all bids in whole or in part and to waive any technicality or irregularity.

**PURCHASING MANAGER**  
**INDIAN RIVER COUNTY**

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**Publish: Demandstar and vender registry**

**Date: Sunday, March 7, 2021**

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## Instructions to Bidders

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### Definitions

Bidder – Individual or entity submitting a bid to Owner.

Contractor – The lowest, responsive, and responsible bidder to whom Owner makes award.

Owner – Indian River County

### General Terms and Conditions

**Cone of Silence.** Potential bidders and their agents must not communicate in any way with the Board of Commissioners, County Administrator or any County staff other than Purchasing personnel in reference or relation to this solicitation. This restriction is effective from the time of bid advertisement until the Board of County Commissioners meets to authorize award. Such communication may result in disqualification.

**Interpretations:** No oral interpretations will be made to any Bidder as to the meaning of the Specifications. Every request for such an interpretation shall be made in writing, addressed and forwarded to the Purchasing Division ([purchasing@ircgov.com](mailto:purchasing@ircgov.com)) ten (10) or more days before the date fixed for opening of the bids. The County shall not be responsible for oral interpretations given by any County employee. Every interpretation made to bidder will be in the form of an Addendum to the specifications, which if issued, will be sent promptly as is practical to all persons to whom specifications have been issued. All such Addenda shall become part of the specifications. Further, it shall be the responsibility of each bidder, prior to submitting their bid, to determine if addenda were issued and to make such addenda a part of their bid.

**Licensure:** Bidder must possess licensure as indicated in the Technical Specifications Scope of Work. Indian River County Code section 400.01(1) requires that “No person shall engage in the business of construction, contracting or subcontracting as regulated by Florida Statutes or in a [any] categories listed in **Appendix A to Ordinance No. 94-16 without a valid certificate of competency issued by the Indian River County Building Department** unless certified under Florida Statutes.” Bidders who do not hold the appropriate licensure at the time of bid opening will be deemed non-responsive.

#### **Insurance:**

- **Owners and Subcontractors Insurance:** The Contractor shall not commence work until they have obtained all the insurance required under this section, and until such insurance has been approved by the owner, nor shall the contractor allow any subcontractor to commence work until the subcontractor has obtained the insurance required for a contractor herein and such insurance has been approved unless the subcontractor’s work is covered by the protections afforded by the Contractor’s insurance.
- **Worker’s Compensation Insurance:** The Contractor shall procure and maintain worker’s compensation insurance to the extent required by law for all their employees to be engaged in work under this contract. In case any employees are to be engaged in hazardous work under this contract and are not protected under the worker’s compensation statute, the Contractor shall provide adequate coverage for the protection of such employees.
- **Public Liability Insurance:** The Contractor shall procure and maintain broad form commercial general liability insurance (including contractual coverage) and commercial automobile liability insurance in

amounts not less than shown below. The owner shall be an additional named insured on this insurance with respect to all claims arising out of the operations or work to be performed.

<p>Commercial General (Public) Liability, other than Automobile</p> <p>\$1,000,000.00 Combined single limit for Bodily Injury and Property Damage</p>	<p><b>Commercial General</b></p> <p>A. <b>Premises / Operations</b></p> <p>B. <b>Independent Contractors</b></p> <p>C. <b>Products / Completed Operations</b></p> <p>D. <b>Personal Injury</b></p> <p>E. <b>Contractual Liability</b></p> <p>F. <b>Explosion, Collapse, and Underground Property Damage</b></p>
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<p>Automobile</p> <p>\$1,000,000.00 Combined single limit Bodily Injury and Damage Liability</p>	<p>A. <b>Owner Leased Automobiles</b></p> <p>B. <b>Non-Owned Automobiles</b></p> <p>C. <b>Hired Automobiles</b></p> <p>D. <b>Owned Automobiles</b></p>
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- Proof of Insurance:** The Contractor shall furnish the owner a certificate of insurance in a form acceptable to the owner for the insurance required. Such certificate or an endorsement provided by the contractor must state that the owner will be given thirty (30) days written notice prior to cancellation or material change in coverage. Copies of an endorsement-naming owner as Additional Insured must accompany the Certificate of Insurance.

**Permits, Impact and Inspection Fees.** In accordance with Florida Statutes Section 218.80, the "Public Bid Disclosure Act", County as OWNER is obligated to disclose all license, permit, impact, or inspection fees that are payable to Indian River County in connection with the construction of the Work by the accepted bidder. The anticipated cost of the permit fees due to the Building Division is provided as a fixed line item on the bid form, specifically noted in the scope of work, or attached as an appendix to the invitation to bid. This amount does not include fees for any necessary re-inspection(s), which are the responsibility of the Contractor.

**Variations to Specifications:** For purposes of evaluation, Bidder must indicate any variances from the specifications and / or conditions on the form provided with this Invitation to Bid. Otherwise, it will be assumed that the product or service fully complies with the specifications. Items specifically described, as alternates shall be reviewed as an alternative bid to be considered by the County, in lieu of the primarily specified item(s). However, item(s) varying from the published specifications shall be considered substitutes, and the County reserves the right to consider or not to consider substitute bids. Substitutes shall be subject to disqualification if the County does not approve the substitution.

**Sealed Bids and Envelope Markings:** All bids must be submitted in a sealed opaque envelope. The outside of the envelope must be clearly marked with the Sealed Bid #, Title of the Bid, Date of the Bid opening, and Time of the Bid Opening and name of firm submitting.

**Bid Submission:** All bids must be signed with the legal Firm name and by an Officer or employee having authority to bind the company or firm by his / her signature. Bids must be submitted on forms provided by the County. The bid forms shall not be recreated. **Bids not submitted on the attached form(s) shall be rejected, as will bids submitted on rewritten or recreated bid forms.** Submittal of one marked original bid and one copy is required

unless otherwise instructed. The County will not reimburse any bidder for costs associated with preparation or submittal of this bid.

**Errors:** When an error is made in the bid extension of generating total bid prices or in any other process of completing the bid, the original unit prices submitted will govern. Discrepancies between words and figures will be resolved in favor of the words. Carelessness in quoting prices, or in preparation of the bid otherwise, will not relieve the bidder from performance.

**Bid Rejection:** Failure to comply with all the enclosed instructions may result in rejection of the bid.

**Consideration of Bids:** Verbal, emailed or faxed bids will not be considered. For a bid to be considered it must be delivered timely as an original with one (1) photo copy.

**Opening Location:** It will be the sole responsibility of the Bidder to deliver their bid personally or by mail or other delivery service to "Indian River County Purchasing Division, 1800 27<sup>th</sup> Street, Vero Beach, FL 32960," on or before the closing hour and date shown for receipt of bids. Bids received in person or by mail after the stated time and date will not be accepted or considered.

**Bid Security and Public Construction Bond:** Bid security must accompany each Bid over \$35,000, and must be in the form of an AIA Document A310 Bid Bond, properly executed by the Bidder and by a qualified surety, or a certified check or a cashier's check, drawn on any bank authorized to do business in the State of Florida. Bid Security for bids over \$35,000 must be in the sum of not less than five percent (5%) of the total amount of the bid, made payable to "Indian River County Board of County Commissioners." Electronically signed bid bonds will be acceptable.

In the event the Contract is awarded to the Bidder, Bidder will enter into a Contract with the County and furnish the required 100% Public Construction Bond and insurance certificates within the timeframe set by the County. If Bidder fails to do so, the Bid Security will be retained by the County as liquidated damages and not as a penalty. If bid does not exceed \$100,000, no Public Construction Bond will be required. Bid Security of other Bidders whom OWNER believes do not have a reasonable chance of receiving the award will be returned within seven days after the Bid opening.

**Irrevocable Offer:** Bidder warrants by virtue of submitting a signed bid, that the prices quoted will remain firm and be considered an irrevocable offer for a period of sixty (60) days, during which time one or more of the bids received may be accepted by the County. The Board of County Commissioners shall deem the offer accepted upon approval.

**Withdrawal of Bids:** A bid may be modified or withdrawn by an appropriate document duly executed in the manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date and time of opening of bids. If, within 48 business hours after Bids are opened, any bidder files a duly signed written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that bidder may withdraw its bid and bid security will be returned. Thereafter, if the work is rebid, that bidder may be disqualified from further bidding on the work.

**Co-Operative Purchasing:** It is the intent of the Invitation of Bid to secure goods or services to be used by Indian River County. However, by virtue of bidding, the bidder accepts the right of other Florida Governmental agencies to purchase from this bid proposal, when appropriate. The successful bidder and the requesting Governmental

agency, apart from Indian River County, shall handle any such purchases separately. Further, County assumes no liability for materials or services ordered by any other Governmental agency by virtue of this bid. Bidders that find this condition unsatisfactory should indicate this by showing exception on the Bid Form.

**Public Record Exemption:** Correspondence, materials, and documents received pursuant to this Invitation for Bid become public records subject to the provisions of Chapter 119, Florida Statutes. Should the Bidder assert any exemptions to the requirements of Chapter 119, Florida Statutes, and related statutes, the burden of establishing such exemption, by the way of injunctive or other relief as provided by law, shall be upon the Bidder.

**Local Preference:** County has no local ordinance or preferences, as set forth in Florida Statutes section 255.0991(2) in place, therefore no preference prohibited by that section will be considered in the acceptance, review or award of this bid.

**Supplemental Information:** The County reserves the right to conduct such investigations as it deems necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications and financial ability of Bidders, proposed subcontractors, suppliers, and other relevant parties to perform and furnish the work. To demonstrate qualifications to perform the work, each Bidder must be prepared to submit, within 5 days of Owner's request, written evidence, such as financial data, previous experience, present commitments, and other such data as may be necessary to prove to the satisfaction of the Owner that the Bidder is qualified by experience to do the work and is prepared to complete the work within the stated time period. Failure to provide any requested information may result in the determination of the Bidder as non-responsible.

**Awards:** The County reserves the right to cancel the bid, accept or reject any and all bids in whole or in part, and waive any irregularity or technicality in bids received. When it is determined there is no competition to the lowest responsive, responsible Bidder, rebidding of the project is not required. Bidders are cautioned to make no assumptions unless their bid has been evaluated as being responsive. The County reserves the right to not make any award(s) under this bid.

**Bid Protest:** Any actual or prospective bidder or proposer who is aggrieved in connection with a competitive selection process may protest to the Purchasing Manager. The protest shall be submitted to the Purchasing Manager in writing within seven (7) calendar days after the bidder or proposer knows or should have known of the facts giving rise to the protest. If the protest is not resolved by mutual agreement, the Purchasing Manager shall promptly issue a decision in writing, after consulting the using Department and the Office of the County Attorney.

**Applicable Law and Venue:** The resulting Agreement and all rights and duties of the parties hereto shall be governed by the laws of the State of Florida, including but not limited to the provisions of the Florida Uniform Commercial Code Chapters 671-679 F.S., for any terms and conditions not specifically stated within. Venue for any lawsuit brought by either party against the other party or otherwise arising out of this Contract shall be in Indian River County, Florida, or, in the event of a federal jurisdiction, in the United States District Court for the Southern District of Florida.

**Cancellation:** It is the intention of the County to purchase material and / or services from sources of supply that will provide prompt and convenient shipment and service. Any failure of the supplier to satisfy the requirements of the County shall be reason for termination of the award.

**Termination by the County:** The County reserves the right to terminate a contract by giving thirty (30) days notice, in writing, of the intention to terminate, if at any time the contractor fails to abide by or fulfill any of the terms and conditions of the contract. The County also reserves the right to terminate this contract for convenience of the County and / or with or without cause.

**Non-Collusion:** By signing and submitting the Bid Form, the Bidder certifies that,

- This bid has been arrived at by the Bidder independently and has been submitted without collusion, and without any agreement, understanding, or planned common course, or action with, any vendor of materials, supplies, equipment, or services described in the invitation to bid, designed to limit independent bidding or competition, and
- The contents of the bid have not been communicated by the Bidder or its employees or agents to any person not an employee or an agent of the bidder or its surety on any bond furnished with the bid, and will not be communicated to any such person prior to the official opening of the bid.
- No attempt has been made or will be made by the Bidder to induce any other person(s) or firm(s) to submit or not to submit a bid for the purpose of restricting competition.

**Conflict of Interest:** Any entity submitting a bid or proposal or entering into a contract with the County shall disclose any relationship that may exist between the contracting entity and a County Commissioner or a County Employee. The relationship with a County Commissioner or a County Employee that must be disclosed is as follows: *father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, daughter-in-law, son-in-law, brother-in-law, sister-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, or grandchild*. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of the entity. The disclosure of relationships shall be a sworn statement made on a County approved form. Failure to submit the form may be cause for rejection of the bid or proposal.

**Public Entity Crimes:** Pursuant to Florida Statutes Section 287.133(2)(a), all Bidders are hereby notified that a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity (defined as the State of Florida, any of its departments or agencies, or any political subdivision); may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Florida Statutes Section 287.017 for CATEGORY TWO [currently \$35,000] for a period of 36 months from the date of being placed on the convicted vendor list. A "public entity crime" means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid, proposal, reply, or contract for goods or services, any lease for real property, or any contract for the construction or repair of a public building or public work, involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

**Suspension and Debarment:** County will not make award to parties listed on the government-wide exclusions in the System for Award Management (SAM). The bidder agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract



that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions. By submittal of a bid in response to this solicitation, bidder asserts neither it nor its principals is presently debarred, suspended or proposed for debarment, declared ineligible, or voluntarily excluded from participation in this work by any Federal department or agency.

**Scrutinized Companies Lists:** The bidder certifies that it and those related entities of respondent as defined by Florida law are not on the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725 of the Florida Statutes, and are not engaged in a boycott of Israel. In addition, if this agreement is for goods or services of one million dollars or more, Contractor certifies that it and those related entities of respondent as defined by Florida law are not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473 of the Florida Statutes and are not engaged in business operations in Cuba or Syria. The County may terminate this Contract if Company is found to have submitted a false certification as provided under section 287.135(5), Florida Statutes, been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or been engaged in business operations in Cuba or Syria, as defined by section 287.135, Florida Statutes. County may terminate this Contract if Company, including all wholly owned subsidiaries, majority-owned subsidiaries, and parent companies that exist for the purpose of making profit, is found to have been placed on the Scrutinized Companies that Boycott Israel List or is engaged in a boycott of Israel as set forth in section 215.4725, Florida Statutes.

Accordingly, firms responding to this solicitation shall return with their response an executed copy of the attached "Certification Regarding Prohibition Against Contracting With Scrutinized Companies." Failure to return this executed form with submitted bid/proposal/statement of qualifications will result in the response being deemed non-responsive and eliminated from consideration.

**Non-Discrimination:** County will not knowingly do business with vendors or contractors who discriminate on the basis of race, color or national origin, sex, sexual orientation, gender identity, age and/or disability. Through the course of providing services to the County, Contractors shall affirmatively comply with all applicable provisions of Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987 and the Florida Civil Rights Act of 1992, as well as all other applicable regulations, guidelines and standards. Any person who believes their rights have been violated should report such discrimination to the County's Title VI/Nondiscrimination Coordinator through the office of the County Attorney.

**E-Verify:** Bidder must be registered with and use, at their sole expense, the Department of Homeland Security's E-Verify system ([www.e-verify.gov](http://www.e-verify.gov)) to confirm the employment eligibility of all newly hired employees, as required by Section 448.095, F.S. Owner, contractor, and subcontractors may not enter into a contract unless each party to the contract registers with and uses the E-Verify system. Contractor is responsible for obtaining proof of E-Verify registration for all subcontractors. This requirement applies to any provider of services or goods.

**Assignment/Delegation:** No right, obligation or interest in an awarded Agreement may be assigned or delegated by the Bidder without prior written consent of the County, without prejudice to County's other rights and remedies.

**Energy Policy and Conservation Act** – The Contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

**Compliance with Laws and Regulations:** Bidder agrees that they will comply with all Federal, State, and Local Laws and Regulations applicable to the production, sale, and delivery of the goods or the furnishing of any labor or services called for by the resulting Agreement, and any provisions required thereby to be included herein shall be deemed to be incorporated herein by reference. Noncompliance may be considered grounds for termination of contracts.

**Affirmative Steps:** CONTRACTOR must take the following affirmative steps to ensure minority business, women's business enterprises and labor surplus area firms are used when possible:

1. Placing qualified small and minority businesses and women's business enterprises on solicitation lists.
2. Ensuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources.
3. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises.
4. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises.
5. Using the services and assistance of the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

**DHS Seal:** If this project is federally-funded, the Department of Homeland Security (DHS) seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials shall not be used by the Bidder without specific FEMA pre-approval.

**Indemnification:** CONTRACTOR shall indemnify and hold harmless the County, and its commissioners, officers and employees, from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the contractor and persons employed or utilized by the contractor in the performance of the construction contract.

**Records/Audit:** The Bidder shall maintain books, records and documents pertinent to performance under this Invitation and any resulting Agreement in accordance with generally accepted accounting principles consistently applied. The County and the Florida Office of the Inspector General shall have inspection and audit rights to such records for audit purposes during the term of the contract and for three years following the termination of obligations hereunder. Records which relate to any litigation, appeals or settlements of claims arising from performance under this work or purchase shall be made available until a final disposition has been made of such litigation, appeals, or claims.

**Public Access:** The Bidder shall allow public access to all documents and materials in accordance with the provisions of Chapter 119, Florida Statutes.

**Delivery Requirements:** Delivery of goods is "FOB Destination" unless delivery terms are specified otherwise in the specifications. If County agrees in writing to reimburse Seller for transportation costs, County shall have the right to designate the method of shipment. In either case, the title and all risk of loss of the goods shall remain with the Seller until the goods are received and accepted by the County. Rejected materials will be returned to Seller at the Seller's risk and expense.

**Descriptive Information:** Descriptive literature including Specifications must accompany your bid. Manufacturer's name and model numbers are used herein solely for the purpose of establishing a standard of design, quality, and use of the merchandise required. Products of other manufacturers will be acceptable if they meet or exceed established standards with the exception of those items specified "NO SUBSTITUTION".

**Manufacturer's Certification:** County reserves the right to request from the Bidder a separate manufacturer's certification of all statements made in the bid.

**Made In U.S.A.:** Indian River County prefers materials and goods to be made in the U.S.A.

**Price and Discount Requirements:** Quote net prices after deducting trade discounts. All discounts must be incorporated in the prices contained in the bid, and not shown separately. Invoices submitted must agree with the prices formally bid.

**Taxes:** County is exempt from any taxes imposed by State and / or Federal Government. Exemption Certificates, if required, are to be furnished by the successful bidder and will be filled out by the County.

**Delivery and Completion Dates:** Indicate delivery and completion dates. This may be a determining factor in the award of the bid. The County may, at its option, grant additional time for any delay or failure to perform hereunder if the delay will not adversely affect the best interests of the County and is due to causes beyond the control of the Bidder. Such grant must be in writing and made part of the resulting Agreement.

**Direct Purchase:** County reserves the option to purchase certain tangible materials necessary for the performance of the Contract, and thereby save the amount of the sales tax thereon by virtue of the Owner's status as a Tax Exempt Institution. For the purpose of these procedures, the Contractor will assign to the County any rights the Contractor may have under quotes, contracts or commitments received from the particular vendor or supplier for the materials described in the requisition. The invoiced amount of County Purchased Materials and applicable sales tax, had the purchases not been tax exempt, once finalized through the Owner's Purchase Order and after confirmation of completed delivery and acceptance, will be deducted from the Contractor's Contract price via Change Order.

**Acceptance:** Receipt of an item shall not be an indication that the items are acceptable. Final acceptance and authorization of payment shall be given after a thorough inspection indicates that the item is delivered in accordance with the Bid Specifications. Suppliers are advised that in the event the delivered item does not meet specifications, payment will be withheld until such time the supplier takes necessary corrective action.

**Default Provision:** In case of default by the Bidder, County may procure the articles or services from other sources and hold the Bidder responsible for excess costs incurred thereby, and may take such action, as it deems appropriate, including legal action for Damages or Specific Performance.

**Note: Any and all special conditions attached hereto, which may vary from these General Conditions, shall have precedence.**

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End of General Terms and Conditions

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## Technical Specifications

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## Scope

*The project involves the replacement of the three (3) standing seam metal roofing assemblies located at three corners of the walkway entrances to the Indian River County Courthouse, located at 2000 16<sup>th</sup> Ave, Vero Beach, FL 32960. The project includes the removal and disposal of the existing roof system (approximately 1,166 square feet) including flashings gutters and downspouts, and new plaster ceilings (approximately 972 square feet). The new roofing assembly shall provide a complete, watertight, 20-year warrantable roof system. All work must be competed as specified in the technical specification prepared by Jay Ammon Architect, Inc. dated 2/2/21 attached and incorporated by reference.*

### PROJECT REQUIREMENTS

The following agencies have permitting jurisdiction over the project site:

City of Vero Beach

Indian River County

Bidder must possess the following licenses and registrations at the time of bid:

State of Florida: **General Contractor or Building Contractor**

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End of Technical Specifications

**Bid Form**

**Project Name: INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT (IRC-2101)**

Bid #: 2021033  
 Bid Opening Date and Time: DATE: April 1, 2021 2:00 P.M.  
 Bid Opening Location: Purchasing Division  
 1800 27<sup>th</sup> Street  
 Vero Beach, FL 32960

The following addenda are hereby acknowledged:

Addendum Number	Date
_____	_____
_____	_____
_____	_____
_____	_____

In accordance with all terms, conditions, specifications, and requirements, the Bidder offers the following:

Item	Unit Price	Unit	Quantity	Total
1. MOBILIZATION	\$	LS	1	\$
2. PULL TESTS	\$	LS	1	\$
3. PERMITTING	\$	LS	1	\$
4. STANDING SEAM ROOF (REMOVE AND REPLACE)	\$	LS	1	\$
5. PLASTER CEILINGS (REMOVE AND REPLACE)	\$	SF	736	\$
6. CAN LIGHTS (REMOVE AND RESET)	\$	EA	15	\$
<b>Total Bid Price</b>				<b>\$</b>

**Force Account** **\$ 10,000.00**

<b>Total Bid Price including Force Account</b>		<b>\$</b>
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**Total Bid Price in Words** \_\_\_\_\_

**Project completion time after receipt of "Notice to Proceed" or PO: 150 DAYS**

The undersigned hereby certifies that they have read and understand the contents of this solicitation and agree to furnish at the prices shown any or all of the items above, subject to all instructions, conditions, specifications, and attachments hereto. Failure to have read all the provisions of this solicitation shall not be cause to alter any resulting contract or request additional compensation.

Company Name: \_\_\_\_\_

Company Address: \_\_\_\_\_

City, State \_\_\_\_\_ Zip Code \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Business Tax Receipt Number: \_\_\_\_\_ FEIN Number: \_\_\_\_\_

**Authorized Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_  
(Type / Printed)

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## Qualifications Questionnaire

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**Documentation Submitted with Project No: IRC-2101**

**Project Name: INDIAN RIVER COUNTY COURHOUSE METAL ROOFING REPLACEMENT**

1. How many years has your organization been providing these services? \_\_\_\_\_
2. List State of Florida Registration Number(s): \_\_\_\_\_
3. List government agencies and private firm(s) with whom you have completed similar work:

Agency/Firm Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_  
E-Mail: \_\_\_\_\_ Phone: \_\_\_\_\_  
Services Provided: \_\_\_\_\_  
\_\_\_\_\_  
Dates of Service: \_\_\_\_\_

Agency/Firm Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_  
E-Mail: \_\_\_\_\_ Phone: \_\_\_\_\_  
Services Provided: \_\_\_\_\_  
\_\_\_\_\_  
Dates of Service: \_\_\_\_\_

Agency/Firm Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_  
E-Mail: \_\_\_\_\_ Phone: \_\_\_\_\_  
Services Provided: \_\_\_\_\_  
\_\_\_\_\_  
Dates of Service: \_\_\_\_\_

Agency/Firm Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Title: \_\_\_\_\_  
E-Mail: \_\_\_\_\_ Phone: \_\_\_\_\_  
Services Provided: \_\_\_\_\_  
\_\_\_\_\_  
Dates of Service: \_\_\_\_\_

4. Subcontractors:

Type of Work	Subcontractor Name	License Number

5. Date Registered with e-Verify.gov: \_\_\_\_\_

6. List all ligation cases during the past three (3) years in which the Contractor has been a named party.  
Use additional sheets, as necessary.

Year filed	Case number	Venue	Description

Attach Occupational License/Business Tax Receipt, proof of current liability insurance and W-9.



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## DRUG-FREE WORKPLACE CERTIFICATION

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(Please include this form with your bid)

The undersigned vendor in accordance with Florida Statute 287.087 hereby certifies that \_\_\_\_\_ does:

(Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than 5 days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by, any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of Section 287.087.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Bidder's Signature

Date: \_\_\_\_\_

---

## Affidavit of Compliance

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**(Please include this form with your bid. Failure to include will be interpreted as indication you take no exceptions.)**

Indian River County Bid #2021033 for INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT (IRC-2101)

- We DO NOT take exception to the Bid / Specifications.
- We TAKE exception to the Bid / Specifications as follows: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Company Name: \_\_\_\_\_

Company Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name: \_\_\_\_\_ Title: \_\_\_\_\_

(Typed / Printed)

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**SWORN STATEMENT UNDER SECTION 105.08, INDIAN RIVER COUNTY CODE, ON DISCLOSURE OF  
RELATIONSHIPS**

---

**THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.**

1. This sworn statement **MUST** be submitted with Bid, Proposal or Contract No. **2021033** for  
**INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT**

2. This sworn statement is submitted by: \_\_\_\_\_

\_\_\_\_\_

(Name of entity submitting Statement)

whose business address is:

\_\_\_\_\_

and its Federal Employer Identification Number (FEIN) is \_\_\_\_\_

3. My name is \_\_\_\_\_  
(Please print name of individual signing)

and my relationship to the entity named above is \_\_\_\_\_

4. I understand that an “affiliate” as defined in Section 105.08, Indian River County Code, means:

The term “affiliate” includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of the entity.

5. I understand that the relationship with a County Commissioner or County employee that must be disclosed as follows:

Father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, daughter-in-law, son-in-law, brother-in-law, sister-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, or grandchild.

6. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. [Please indicate which statement applies.]

\_\_\_\_\_ Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, have any relationships as defined in section 105.08, Indian River County Code, with any County Commissioner or County employee.

\_\_\_\_\_ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents, who are active in management of the entity have the following relationships with a County Commissioner or County employee:

Name of Affiliate or entity	Name of County Commissioner or employee	Relationship
_____	_____	_____
_____	_____	_____
_____	_____	_____

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

Sworn to (or affirmed) and subscribed before me by means of  physical presence or  online notarization, this \_\_\_\_ day of 20\_\_\_\_, by \_\_\_\_\_ (name of person making statement).

\_\_\_\_\_  
(Signature of Notary Public - State of Florida)  
(Print, Type, or Stamp Commissioned Name of Notary Public)

who is personally known to me or  who has produced \_\_\_\_\_ as identification.

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**CERTIFICATION REGARDING PROHIBITION AGAINST CONTRACTING WITH SCRUTINIZED COMPANIES**

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**(This form MUST be submitted with your bid)**

I hereby certify that neither the undersigned entity, nor any of its wholly owned subsidiaries, majority-owned subsidiaries, parent companies, or affiliates of such entities or business associations, that exists for the purpose of making profit have been placed on the Scrutinized Companies that Boycott Israel List created pursuant to s. 215.4725 of the Florida Statutes, or are engaged in a boycott of Israel.

In addition, if this solicitation is for a contract for goods or services of one million dollars or more, I hereby certify that neither the undersigned entity, nor any of its wholly owned subsidiaries, majority-owned subsidiaries, parent companies, or affiliates of such entities or business associations, that exists for the purpose of making profit are on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to s. 215.473 of the Florida Statutes, or are engaged in business operations in Cuba or Syria as defined in said statute.

I understand and agree that the County may immediately terminate any contract resulting from this solicitation upon written notice if the undersigned entity (or any of those related entities of respondent as defined above by Florida law) are found to have submitted a false certification or any of the following occur with respect to the company or a related entity: (i) it has been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel, or (ii) for any contract for goods or services of one million dollars or more, it has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or it is found to have been engaged in business operations in Cuba or Syria.

Name of Respondent: \_\_\_\_\_

By: \_\_\_\_\_  
(Authorized Signature)

Title: \_\_\_\_\_

Date: \_\_\_\_\_

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**CERTIFICATION REGARDING LOBBYING**

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Certification for Contracts, Grants, Loans, and Cooperative Agreements  
(This form MUST be submitted with each bid or offer exceeding \$100,000)

The undersigned Contractor certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, \_\_\_\_\_, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

\_\_\_\_\_  
Signature of Contractor's Authorized Official

\_\_\_\_\_  
Name and Title of Contractor's Authorized Official

\_\_\_\_\_  
Date

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## Warranty Information Form

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(All Blanks must be filled in and Submitted with your Bid)

Indian River County Bid # **2021033** for **INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT (IRC-2101)**

Make and Model of Proposed Equipment: \_\_\_\_\_

Is there a warranty on the proposed equipment?    Yes             No

Does the warranty apply to all components or only part? *(Please specify)* \_\_\_\_\_

Warranty period for parts: \_\_\_\_\_

Warranty period for service: \_\_\_\_\_

Nearest source to Indian River County for parts and service: \_\_\_\_\_

Who will provide service and where in the event of failure within warranty period?

Company Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

Contact person: \_\_\_\_\_

Will any voluntary service follow installation or delivery?    Yes             No

If so, by whom? \_\_\_\_\_ When? \_\_\_\_\_

Who is the highest authority (manufacturer, distributor, dealer, etc...) fully behind this warranty?

A copy of the complete warranty statement is submitted herewith:            Yes             No

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## Sample Agreement

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**THIS AGREEMENT** is by and between INDIAN RIVER COUNTY, a Political Subdivision of the State of Florida organized and existing under the Laws of the State of Florida, (hereinafter called OWNER) and \_\_\_\_\_ (hereinafter called CONTRACTOR). OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

### **ARTICLE 1 - WORK**

CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows: ***The project involves the replacement of the three (3) standing seam metal roofing assemblies located at three corners of the walkway entrances to the Indian River County Courthouse, located at 2000 16<sup>th</sup> Ave, Vero Beach, FL 32960. The project includes the removal and disposal of the existing roof system (approximately 1,166 square feet) including flashings, gutters and downspouts, and new plaster ceilings (approximately 972 square feet). The new roofing assembly shall provide a complete, watertight, 20-year warrantable roof system. All work must be completed as specified in the technical specification prepared by Jay Ammon Architect, Inc. dated 2/2/21 attached and incorporated by reference.***

### **ARTICLE 2 - THE PROJECT**

The Project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows:

Project Name: **INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT**  
 Project Number: **IRC-2101**  
 Bid Number: **2021033**  
 Project Address: 2000 16<sup>th</sup> Avenue, Vero Beach, Florida, 32960

### **ARTICLE 3 - CONTRACT TIMES**

#### 3.01 *Time of the Essence*

- A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the specifications are of the essence of the Agreement.

#### 3.02 *Days to Achieve Substantial Completion, Final Completion and Final Payment*

- A. The Work will be substantially completed on or before the **90th** calendar day after the date when the Contract Times commence to run as provided in paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with paragraph 14.07 of the General Conditions on or before the **120th** calendar day after the date when the Contract Times commence to run.

#### 3.03 *Liquidated Damages*



- A. CONTRACTOR and OWNER recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not completed within the times specified in paragraph 3.02 above, plus any extensions thereof allowed in writing as a change order to this Agreement. Liquidated damages will commence for this portion of work. The parties also recognize the delays, expense, and difficulties involved in proving in a legal proceeding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty), CONTRACTOR shall pay OWNER **\$1,045.00** for each calendar day that expires after the time specified in paragraph 3.02 for completion and readiness for final payment until the Work is completed and ready for final payment.

**ARTICLE 4 - CONTRACT PRICE**

4.01 OWNER shall pay CONTRACTOR for completion of the Work an amount in current funds equal to the sum of the amounts determined pursuant to paragraph 4.01.A and summarized in paragraph 4.01.B, below:

- A. For all Work, at the prices stated in CONTRACTOR’s Bid, attached hereto as Exhibit 1.
- B. THE CONTRACT SUM subject to additions and deductions provided in the Contract Documents:

Numerical Amount: \$ \_\_\_\_\_

Written Amount: \_\_\_\_\_  
\_\_\_\_\_

**ARTICLE 5 - PAYMENT PROCEDURES**

5.01 *Progress Payments.*

- A. The OWNER shall make progress payments to the CONTRACTOR on the basis of the approved partial payment request as recommended by ENGINEER in accordance with the provisions of the Local Government Prompt Payment Act, Florida Statutes section 218.70 et. seq. The OWNER shall retain five percent (5%) of the payment amount due to CONTRACTOR until final completion and acceptance of all work to be performed by CONTRACTOR under the Contract Documents.

5.02 *Pay Requests.*

- A. Each request for a progress payment shall contain the CONTRACTOR’S certification. All progress payments will be on the basis of progress of the work measured by the schedule of values established, or in the case of unit price work based on the number of units completed.

5.03 Paragraphs 5.01 and 5.02 do not apply to construction services work purchased by the County as OWNER which are paid for, in whole or in part, with federal funds and are subject to federal grantor laws and regulations or requirements that are contrary to any provision of the Local Government Prompt Payment Act. In such event, payment and retainage provisions shall be governed by the applicable grant requirements and guidelines.

5.04 *Acceptance of Final Payment as Release.*

- A. The acceptance by the CONTRACTOR of final payment shall be and shall operate as a release to the OWNER from all claims and all liability to the CONTRACTOR other than claims in stated amounts as may be specifically excepted by the CONTRACTOR for all things done or furnished in connection with the work under this Agreement and for every act and neglect of the OWNER and others relating to or arising out of the work. Any payment, however, final or otherwise, shall not release the CONTRACTOR or its sureties from any obligations under this Agreement, the Invitation to Bid or the Public Construction Bond.

**ARTICLE 6 - INDEMNIFICATION**

- 6.01 CONTRACTOR shall indemnify and hold harmless the OWNER, and its officers and employees, from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONTRACTOR and persons employed or utilized by the CONTRACTOR in the performance of the Work.

**ARTICLE 7 - CONTRACTOR'S REPRESENTATIONS**

- 7.01 In order to induce OWNER to enter into this Agreement CONTRACTOR makes the following representations:

- A. CONTRACTOR has examined and carefully studied the Contract Documents and the other related data identified in the Invitation to Bid documents.
- B. CONTRACTOR has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. CONTRACTOR is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. CONTRACTOR has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by CONTRACTOR, including applying the specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Contract Documents to be employed by CONTRACTOR, and safety precautions and programs incident thereto.
- E. CONTRACTOR does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.
- F. CONTRACTOR is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Contract Documents.

- G. CONTRACTOR has correlated the information known to CONTRACTOR, information and observations obtained from visits to the Site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.
- H. CONTRACTOR has given OWNER written notice of all conflicts, errors, ambiguities, or discrepancies that CONTRACTOR has discovered in the Contract Documents, and the written resolution thereof by OWNER is acceptable to CONTRACTOR.
- I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
- J. Contractor is registered with and will use the Department of Homeland Security's E-Verify system ([www.e-verify.gov](http://www.e-verify.gov)) to confirm the employment eligibility of all newly hired employees for the duration of this agreement, as required by Section 448.095, F.S.. Contractor is also responsible for obtaining proof of E-Verify registration and utilization for all subcontractors.

## **ARTICLE 8 - CONTRACT DOCUMENTS**

### 8.01 *Contents*

- A. The Contract Documents consist of the following:
  - (1) This Agreement;
  - (2) Notice to Proceed;
  - (3) Public Construction Bond;
  - (4) Certificate(s) of Liability Insurance;
  - (5) Invitation to Bid 2021033;
  - (6) Addenda (numbers to , inclusive);
  - (7) CONTRACTOR'S Bid Form;
  - (8) Bid Bond;
  - (9) Qualifications Questionnaire;
  - (10) Drug Free Workplace Form;
  - (11) Affidavit of Compliance;
  - (12) Sworn Statement Under Section 105.08, Indian River County Code, on Disclosure of Relationships;
  - (13) Certification Regarding Prohibition Against Contracting with Scrutinized Companies;
  - (14) Certification Regarding Lobbying;
  - (15) The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
    - a) Written Amendments;
    - b) Work Change Directives;
    - c) Change Order(s).

**ARTICLE 9 - MISCELLANEOUS**

9.01 *Terms*

- A. Terms used in this Agreement will have the meanings indicated in the Invitation to Bid.

9.02 *Assignment of Contract*

- A. No assignment by a party hereto of any rights under or interests in the Agreement will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

9.03 *Successors and Assigns*

- A. OWNER and CONTRACTOR each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

9.04 *Severability*

- A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon OWNER and CONTRACTOR, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

9.05 *Venue*

- A. This Agreement shall be governed by the laws of the State of Florida. Venue for any lawsuit brought by either party against the other party or otherwise arising out of this Agreement shall be in Indian River County, Florida, or, in the event of a federal jurisdiction, in the United States District Court for the Southern District of Florida.

9.06 *Public Records Compliance*

- A. Indian River County is a public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law. Specifically, the Contractor shall:
  - (1) Keep and maintain public records required by the County to perform the service.
  - (2) Upon request from the County's Custodian of Public Records, provide the County with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119 or as otherwise provided by law.

(3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the contractor does not transfer the records to the County.

(4) Upon completion of the contract, transfer, at no cost, to the County all public records in possession of the Contractor or keep and maintain public records required by the County to perform the service. If the Contractor transfers all public records to the County upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the County, upon request from the Custodian of Public Records, in a format that is compatible with the information technology systems of the County.

**B. IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:**

**(772) 226-1424**

**[publicrecords@ircgov.com](mailto:publicrecords@ircgov.com)**

**Indian River County Office of the County Attorney**

**1801 27<sup>th</sup> Street**

**Vero Beach, FL 32960**

C. Failure of the Contractor to comply with these requirements shall be a material breach of this Agreement.

**Article 11: TERMINATION OF CONTRACT**

A. The occurrence of any of the following shall constitute a default by CONTRACTOR and shall provide the OWNER with a right to terminate this Contract in accordance with this Article, in addition to pursuing any other remedies which the OWNER may have under this Contract or under law:

(1) if in the OWNER's opinion CONTRACTOR is improperly performing work or violating any provision(s) of the Contract Documents;

(2) if CONTRACTOR neglects or refuses to correct defective work or replace defective parts or equipment, as directed by the Engineer pursuant to an inspection;

(3) if in the OWNER's opinion CONTRACTOR's work is being unnecessarily delayed and will not be finished within the prescribed time;

(4) if CONTRACTOR assigns this Contract or any money accruing thereon or approved thereon; or

(5) if CONTRACTOR abandons the work, is adjudged bankrupt, or if he makes a general assignment for the benefit of his creditors, or if a trustee or receiver is appointed for CONTRACTOR or for any of his property.

- B. OWNER shall, before terminating the Contract for any of the foregoing reasons, notify CONTRACTOR in writing of the grounds for termination and provide CONTRACTOR with ten (10) calendar days to cure the default to the reasonable satisfaction of the OWNER.
- C. If the CONTRACTOR fails to correct or cure within the time provided in the preceding Sub-Article B, OWNER may terminate this Contract by notifying CONTRACTOR in writing. Upon receiving such notification, CONTRACTOR shall immediately cease all work hereunder and shall forfeit any further right to possess or occupy the site or any materials thereon; provided, however, that the OWNER may authorize CONTRACTOR to restore any work sites.
- D. The CONTRACTOR shall be liable for:
- (1) any new cost incurred by the OWNER in soliciting bids or proposals for and letting a new contract; and
  - (2) the difference between the cost of completing the new contract and the cost of completing this Contract;
  - (3) any court costs and attorney's fees associated with any lawsuit undertaken by OWNER to enforce its rights herein.
- E. TERMINATION FOR CONVENIENCE: OWNER may at any time and for any reason terminate CONTRACTOR's services and work for OWNER's convenience. Upon receipt of notice of such termination CONTRACTOR shall, unless the notice directs otherwise, immediately discontinue the work and immediately cease ordering of any materials, labor, equipment, facilities, or supplies in connection with the performance of this Contract. Upon such termination Contractor shall be entitled to payment only as follows:
- (1) the actual cost of the work completed in conformity with this Contract and the specifications; plus,
  - (2) such other costs actually incurred by CONTRACTOR as are permitted by the prime contract and approved by the OWNER.
- Contractor shall not be entitled to any other claim for compensation or damages against the County in the event of such termination.
- F. TERMINATION IN REGARDS TO F.S. 287.135: TERMINATION IN REGARDS TO F.S. 287.135: CONTRACTOR certifies that it and those related entities of CONTRACTOR as defined by Florida law are not on the Scrutinized Companies that Boycott Israel List, created pursuant to s. 215.4725 of the Florida Statutes, and are not engaged in a boycott of Israel. In addition, if this agreement is for goods or services of one million dollars or more, CONTRACTOR certifies that it and those related entities of CONTRACTOR as defined by Florida law are not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Section 215.473 of the Florida Statutes and are not engaged in business operations in Cuba or Syria.

OWNER may terminate this Contract if CONTRACTOR is found to have submitted a false certification as provided under section 287.135(5), Florida Statutes, been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or been engaged in business operations in Cuba or Syria, as defined by section 287.135, Florida Statutes.

OWNER may terminate this Contract if CONTRACTOR, including all wholly owned subsidiaries, majority-owned subsidiaries, and parent companies that exist for the purpose of making profit, is found to have been placed on the Scrutinized Companies that Boycott Israel List or is engaged in a boycott of Israel as set forth in section 215.4725, Florida Statutes.

IN WITNESS WHEREOF, OWNER and CONTRACTOR have signed this Agreement in duplicate. One counterpart each has been delivered to OWNER and CONTRACTOR. All portions of the Contract Documents have been signed or identified by OWNER and CONTRACTOR or on their behalf.

This Agreement will be effective on \_\_\_\_\_, 20\_\_ (the date the Agreement is approved by the Indian River County Board of County Commissioners, which is the Effective Date of the Agreement).

**OWNER:**

**CONTRACTOR:**

INDIAN RIVER COUNTY

\_\_\_\_\_

By: \_\_\_\_\_  
Joseph E. Flescher, Chairman

By: \_\_\_\_\_  
(Contractor)

By: \_\_\_\_\_  
Jason E. Brown, County Administrator

(CORPORATE SEAL)

Attest \_\_\_\_\_

**APPROVED AS TO FORM AND LEGAL SUFFICIENCY:**

By: \_\_\_\_\_  
Dylan Reingold, County Attorney

Address for giving notices:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Jeffrey R. Smith, Clerk of Court and Comptroller

License No. \_\_\_\_\_  
(Where applicable)

Attest: \_\_\_\_\_  
Deputy Clerk

(SEAL)

Agent for service of process: \_\_\_\_\_

Designated Representative:  
Name: James W. Ennis, P.E., PMP  
Title: Assistant Public Works Director  
Address: 1801 27<sup>th</sup> Street, Vero Beach, FL 32960  
Phone: (772) 226-1283  
Email: [jennis@ircgov.com](mailto:jennis@ircgov.com)

Designated Representative:  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Phone: \_\_\_\_\_  
Email: \_\_\_\_\_

(If CONTRACTOR is a corporation or a partnership, attach evidence of authority to sign.)

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**Exhibit 1 to the Agreement – Pricing**

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## **PUBLIC CONSTRUCTION BOND**

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### INSTRUCTION FOR PUBLIC CONSTRUCTION BOND

The front or cover page to the required public construction/payment and performance bond shall contain the information required by Fla. Stat. 255.05(1)(a), and be substantially in the format shown on the first page following this instruction.

The Public Construction Bond shall be in the form suggested by Fla. Stat. 255.05(3) as shown on the second page following this instruction.

A Power of Attorney from a surety insurer authorized to do business in Florida, authorizing the signature of the Attorney in Fact who executes the Public Construction Bond shall accompany that Bond.

IRC2101\_ITB\_20210228.doc  
**Public Work**  
**F.S. Chapter 255.05 (1)(a)**  
**Cover Page**

**THIS BOND IS GIVEN TO COMPLY WITH SECTION 255.05 OR SECTION 713.23 FLORIDA STATUTES, AND ANY ACTION INSTITUTED BY A CLAIMANT UNDER THIS BOND FOR PAYMENT MUST BE IN ACCORDANCE WITH THE NOTICE AND TIME LIMITATION PROVISIONS IN SECTION 255.05(2) OR SECTION 713.23 FLORIDA STATUTES.**

**BOND NO:** \_\_\_\_\_

**CONTRACTOR NAME:** \_\_\_\_\_

**CONTRACTOR ADDRESS:** \_\_\_\_\_

**CONTRACTOR PHONE NO:** \_\_\_\_\_

**SURETY COMPANY NAME:** \_\_\_\_\_

**SURETY PRINCIPAL  
BUSINESS ADDRESS:** \_\_\_\_\_

**SURETY PHONE NO:** \_\_\_\_\_

**OWNER NAME:** \_\_\_\_\_

**OWNER ADDRESS:** \_\_\_\_\_

**OWNER PHONE NO:** \_\_\_\_\_

**OBLIGEE NAME:** \_\_\_\_\_  
(If contracting entity is different from  
the owner, the contracting public entity)

**OBLIGEE ADDRESS:** \_\_\_\_\_

**OBLIGEE PHONE NO:** \_\_\_\_\_

**BOND AMOUNT:** \_\_\_\_\_

**CONTRACT NO:** \_\_\_\_\_  
(If applicable)

**DESCRIPTION OF WORK:** \_\_\_\_\_

**PROJECT LOCATION:** \_\_\_\_\_

**LEGAL DESCRIPTION:** \_\_\_\_\_  
(If applicable)

FRONT PAGE

All other bond page(s) are deemed subsequent to this page regardless of any page number(s) that may be printed thereon.

PUBLIC CONSTRUCTION BOND

Bond No. \_\_\_\_\_  
(enter bond number)

BY THIS BOND, We \_\_\_\_\_, as Principal and \_\_\_\_\_, \_\_\_\_\_ a corporation, as Surety, are bound to \_\_\_\_\_, herein called Owner, in the sum of \$ \_\_\_\_\_, for payment of which we bind ourselves, our heirs, personal representatives, successors, and assigns, jointly and severally.

THE CONDITION OF THIS BOND is that if Principal:

- 1. Performs the contract dated \_\_\_\_\_, \_\_\_\_\_, between Principal and Owner for construction of \_\_\_\_\_, the contract being made a part of this bond by reference, at the times and in the manner prescribed in the contract; and
- 2. Promptly makes payments to all claimants, as defined in Section 255.05(1), Florida Statutes, supplying Principal with labor, materials, or supplies, used directly or indirectly by Principal in the prosecution of the work provided for in the contract; and
- 3. Pays Owner all losses, damages, expenses, costs, and attorney's fees, including appellate proceedings, that Owner sustains because of a default by Principal under the contract; and
- 4. Performs the guarantee of all work and materials furnished under the contract for the time specified in the contract, then this bond is void; otherwise it remains in full force.

Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes.

Any changes in or under the contract documents and compliance or noncompliance with any formalities connected with the contract or the changes does not affect Surety's obligation under this bond.

DATED ON \_\_\_\_\_,

\_\_\_\_\_  
(Name of Principal)

By \_\_\_\_\_  
(As Attorney in Fact)

\_\_\_\_\_  
(Name of Surety)

## SAMPLE CERTIFICATE OF LIABILITY INSURANCE

<b>CERTIFICATE OF LIABILITY INSURANCE</b>	
<b>PRODUCER</b>	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.
	COMPANIES AFFORDING COVERAGE
<b>INSURED</b>	COMPANY A - COMPANY B - COMPANY C - COMPANY D - COMPANY E -

**COVERAGES**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED NOTWITHSTANDING ANY REQUIREMENT TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN THE INSURANCE ACCORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INS R LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/D/YY)	LIMITS	
A	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE - <input type="checkbox"/> OCCUR <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				EACH OCCURRENCE	\$ 1,000,000
					FIRE DAMAGE (Any One Fire)	\$ 50,000
					MED. EXP. (Any One Person)	\$ 5,000
					PERSONAL & ADV INJURY	\$ 1,000,000
					GENERAL AGGREGATE	\$ 1,000,000
					PRODUCTS – COMP/OP AGG.	\$ 1,000,000
						\$
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> <input type="checkbox"/>				COMBINED SINGLE LIMIT (Ea. Occurrence)	\$ 1,000,000
					BODILY INJURY (Per Person)	\$
					BODILY INJURY (Per Accident)	\$
					PROPERTY DAMAGE	\$
	GARAGE LIABILITY <input type="checkbox"/> <input type="checkbox"/>				AUTO ONLY – EA ACCIDENT	\$
					OTHER THAN	EA ACC \$
					AUTO ONLY	AGG \$
A	EXCESS LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$				EACH OCCURRENCE	
					AGGREGATE	\$
						\$
A	WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY  THE PROPRIETOR/PARTNERS/ EXECUTIVE OFFICERS ARE: <input type="checkbox"/> INCL <input type="checkbox"/> EXCL				<input type="checkbox"/> WC STATUTORY LIMITS	
					E.L. EACH ACCIDENT	\$ 100,000
					E.L. DISEASE – EA	\$ 500,000
					E.L. DISEASE-POLICY LIMIT	\$ 100,000
	OTHER: BUILDER'S RISK				FULL REPLACEMENT COST OF THE WORK	

DESCRIPTION OF OPERATIONS/LOCATIONS VEHICLES/SPECIAL ITEMS

CERTIFICATE HOLDER	ADDITIONAL INSURED; INSURER LETTER:	CANCELLATION
ADDITIONAL INSURED: INDIAN RIVER COUNTY 1801 27 <sup>TH</sup> STREET, VEROBEACH, FL 32960-3388		SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT. FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.
		AUTHORIZED REPRESENTATIVE

**NOTICE TO PROCEED**

Dated \_\_\_\_\_

TO:

\_\_\_\_\_  
(BIDDER)

ADDRESS:

\_\_\_\_\_  
\_\_\_\_\_

Contract For:

**INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT**

Project No: **IRC-2101**

IRC Bid No. **2021033**

You are notified that the Contract Times under the above contract will commence to run on \_\_\_\_\_. By that date, you are to start performing your obligations under the Contract Documents. The contract has allocated **90** calendar days for Substantial Completion of this project and **120** calendar days for Final Completion. In accordance with Article 3.02 of the Agreement the date of Substantial Completion is \_\_\_\_\_ and the date of readiness for final payment is \_\_\_\_\_.

**CONTRACTOR shall not commence work under this Contract until he has obtained all insurance required under "Instructions to Bidder, General Terms and Conditions" and such insurance has been delivered to the OWNER and approved by the OWNER, nor shall the CONTRACTOR allow any Subcontractor to commence work on his subcontract until all similar insurance required of the Subcontractor has been so obtained and approved. All such insurance shall remain in effect until final payment and at all times thereafter when CONTRACTOR may be correcting, removing or replacing defective Work in accordance with Article 6 of the Agreement.**

Also, before you may start any Work at the Site, you must:  
(add other requirements, if applicable)

\_\_\_\_\_  
\_\_\_\_\_

INDIAN RIVER COUNTY  
\_\_\_\_\_  
(Owner)

\_\_\_\_\_  
(Authorized Signature)

\_\_\_\_\_  
(Title)

**SECTION 00622 - Contractor's Application for Payment  
INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT**

Application for Payment No. \_\_\_\_\_  
For Work Accomplished through the period of \_\_\_\_\_ through \_\_\_\_\_

To: Indian River County (OWNER)  
From: \_\_\_\_\_ (CONTRACTOR)  
Project No.: IRC-2101  
Bid No.: 2021033

**1) Attach detailed schedule and copies of all paid invoices.**

1.	Original Contract Price:	\$	_____
2.	Net change by Change Orders and Written Amendments (+ or -):	\$	_____
3.	Current Contract Price (1 plus 2):	\$	_____
4.	Total completed and stored to date:	\$	_____
5.	Retainage (per Agreement):		
	_____ % of completed Work:		
	_____ % of retainage:	\$	_____
		Total Retainage:	\$ _____
6.	Total completed and stored to date less retainage (4 minus 5):	\$	_____
7.	Less previous Application for Payments:	\$	_____
8.	<b>DUE THIS APPLICATION (6 MINUS 7):</b>	\$	_____

**CONTRACTOR'S CERTIFICATION:**

**UNDER PENALTY OF PERJURY**, the undersigned CONTRACTOR certifies that (1) the labor and materials listed on this request for payment have been used in the construction of this Work; (2) payment received from the last pay request has been used to make payments to all subcontractors, laborers, materialmen and suppliers except as listed on Attachment A, below; (3) title of all Work, materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to OWNER at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to OWNER indemnifying OWNER against any such Lien, security interest or encumbrance); (4) all Work covered by this Application for Payment is in accordance with the Contract Documents and not defective; and (5) If this Periodic Estimate is for a Final Payment to project or improvement, I further certify that all persons doing work upon or furnishing materials or supplies for this project or improvement under this foregoing contract have been paid in full, and that all taxes imposed by Chapter 212 Florida Statutes, (Sales and Use Tax Act, as Amended) have been paid and discharged, and that I have no claims against the OWNER.

Attached to or submitted with this form are:

1. Signed release of lien forms (partial or final as applicable) from all subcontractors, laborers, materialmen and suppliers except as listed on Attachment A, together with an explanation as to why any release of lien form is not included;

2. Updated Construction Schedule per [Specification Section 01310](#).

Dated \_\_\_\_\_

By: \_\_\_\_\_  
(CONTRACTOR – must be signed by  
an Officer of the Corporation)

\_\_\_\_\_  
Print Name and Title

STATE OF FLORIDA  
COUNTY OF INDIAN RIVER

Before me, a Notary Public, duly commissioned, qualified, and acting, personally appeared \_\_\_\_\_, to me well known or who produced \_\_\_\_\_ as identification, who being by me first duly sworn upon oath, says that he/she is the \_\_\_\_\_ for and that he/she has been authorized by \_\_\_\_\_ it to approve payment by the OWNER to the CONTRACTOR of the foregoing Contractor's Application for Payment. Subscribed and sworn to before me this \_\_\_\_ day of \_\_\_\_\_, 20

\_\_\_\_\_  
Notary Public, State of \_\_\_\_\_  
My Commission Expires: \_\_\_\_\_

\*\*\*\*\*  
[The remainder of this page was left blank intentionally]

**SURETY'S CONSENT OF PAYMENT TO CONTRACTOR:**

The Surety, \_\_\_\_\_

\_\_\_\_\_, a corporation, in accordance with Public Construction Bond Number \_\_\_\_\_, hereby consents to payment by the OWNER to the CONTRACTOR, for the amounts specified in this CONTRACTOR'S APPLICATION FOR PAYMENT.

**TO BE EXECUTED BY CORPORATE SURETY:**

Attest:

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
Corporate Surety

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Business Address

BY: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

(Affix Corporate SEAL)

STATE OF FLORIDA  
COUNTY OF INDIAN RIVER

Before me, a Notary Public, duly commissioned, qualified, and acting, personally appeared \_\_\_\_\_, to me well known or who produced \_\_\_\_\_ as identification, who being by me first duly sworn upon oath, says that he/she is the \_\_\_\_\_ for \_\_\_\_\_ and that he/she has been authorized by \_\_\_\_\_ it to approve payment by the OWNER to the CONTRACTOR of the foregoing Contractor's Application for Payment. Subscribed and sworn to before me this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Notary Public, State of \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

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[The remainder of this page was left blank intentionally]



**CERTIFICATION OF PROJECT MANAGER:**

I certify that I have reviewed the above and foregoing Periodic Estimate for Partial Payment; that to the best of my knowledge and belief it appears to be a reasonably accurate statement of the work performed and/or material supplied by the Contractor. I am not certifying as to whether or not the Contractor has paid all subcontractors, laborers, materialmen and suppliers because I am not in a position to accurately determine that issue.

Dated \_\_\_\_\_

\_\_\_\_\_  
SIGNATURE

**CERTIFICATION OF INSPECTOR:**

I have checked the estimate against the Contractor's Schedule of Amounts for Contract Payments and the notes and reports of my inspections of the project. To the best of my knowledge, this statement of work performed and/or materials supplied appears to be reasonably accurate, that the Contractor appears to be observing the requirements of the Contract with respect to construction, and that the Contractor should be paid the amount requested above, unless otherwise noted by me. I am not certifying as to whether or not the Contractor has paid all subcontractors, laborers, materialmen and suppliers because I am not in a position to accurately determine that issue.

Dated \_\_\_\_\_

\_\_\_\_\_  
SIGNATURE

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[The Remainder of This Page Was Left Blank Intentionally]

**ATTACHMENT A**

- 1. List of all subcontractors, laborers, materialmen and suppliers who have not been paid from the payment received from the last Pay Request and the reason why they were not paid (attach additional pages as necessary):**

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- 2. List of all subcontractors, laborers, materialmen and suppliers for which a signed release of lien form (partial or final as applicable) is not included with this Pay Request, together with an explanation as to why the release of lien form is not included (attach additional pages as necessary):**

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PROJECT NAME: **INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT**

Project No. **IRC-2101**

Payment Application No. \_\_\_\_\_

Item No.	Description	Unit	Quantity	WORK COMPLETED								%	MATERIALS STORED	BALANCE TO FINISH		
				SCHEDULED VALUE		PREVIOUS APPLICATION		THIS PERIOD		TOTAL COMPLETED				QUANTITY	TOTAL	
				Unit Price	Amount	QUANTITY	TOTAL	QUANTITY	TOTAL	QUANTITY	TOTAL					
SUBTOTAL				SUBTOTAL	0.00		0.00		0.00		0.00			0.00		0.00
	FORCE ACCOUNT	1	LS													
GRAND TOTAL				TOTAL	0.00											

AMOUNT COMPLETED TO DATE	\$0.00
MATERIALS STORED TO DATE	\$0.00
SUB-TOTAL MATERIALS STORED AND COMPLETED TO DATE	\$0.00
RETAINAGE 5%	\$0.00
TOTAL COMPLETED AND STORED LESS RETAINAGE	\$0.00
LESS PREVIOUS PAYMENT	\$0.00
AMOUNT DUE CONTRACTOR	\$0.00

**SECTION 00942 - Change Order Form**

No. \_\_\_\_\_

DATE OF ISSUANCE: \_\_\_\_\_

EFFECTIVE DATE: \_\_\_\_\_

OWNER: Indian River County

CONTRACTOR \_\_\_\_\_

Project: **INDIAN RIVER COUNTY COURTHOUSE METAL ROOF REPLACEMENT**

OWNER's Project No. **IRC-2101**

OWNER'S Bid No. **2021033**

You are directed to make the following changes in the Contract Documents:

Description:

Reason for Change Order:

Attachments: (List documents supporting change)

CHANGE IN CONTRACT PRICE:	
Description	Amount
Original Contract Price	\$ _____
Net Increase (Decrease) from previous Change Orders No. _____ to _____:	\$ _____
Contract Price prior to this Change Order:	\$ _____
Net increase (decrease) of this Change Order:	\$ _____
Contract Price with all approved Change Orders:	\$ _____

CHANGE IN CONTRACT TIMES	
Description	Time
Original Contract Time:	(days or dates) _____
Substantial Completion:	_____
Final Completion:	_____
Net change from previous Change Orders No. _____ to _____:	(days) _____
Substantial Completion:	_____
Final Completion:	_____
Contract Time prior to this Change Order:	(days or dates) _____
Substantial Completion:	_____
Final Completion:	_____
Net increase (decrease) this Change Order:	(days or dates) _____
Substantial Completion:	_____
Final Completion:	_____
Contract Time with all approved Change Orders:	(days or dates) _____
Substantial Completion:	_____
Final Completion:	_____

<b>ACCEPTED:</b>
By:
CONTRACTOR (Signature)
Date:

<b>RECOMMENDED:</b>
By:
ENGINEER (Signature)
Date:

<b>APPROVED:</b>
By:
OWNER (Signature)
Date:

SECTION 00948 - Work Change Directive

No. \_\_\_\_\_

DATE OF ISSUANCE: \_\_\_\_\_

EFFECTIVE DATE: \_\_\_\_\_

OWNER: Indian River County \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_

Project: **INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT**

OWNER's Project No. **IRC-2101**

You are directed to proceed promptly with the following changes:

Description:

Purpose of Work Change Directive:

Attachments: (List documents supporting change)

If OWNER or CONTRACTOR believe that the above change has affected Contract Price any Claim for a Change Order based thereon will involve one or more of the following methods as defined in the Contract Documents.

Method of determining change in Contract Prices

- Unit Prices
- Lump Sum
- Other: \_\_\_\_\_
- By Change Order:

Estimated increase (decrease) of this Work Change Directive \$ \_\_\_\_\_

If the change involves an increase, the estimated amount is not to be exceeded without further authorization.

Method of determining change in Contract Times

- Contractor's Records
- Engineer's Records
- Other: \_\_\_\_\_
- By Change Order:

Estimated increase (decrease) in Contract Times:

Substantial Completion: \_\_\_\_\_ days;  
Ready for Final Completion: \_\_\_\_\_ days.

If the change involves an increase, the estimated time is not to be exceeded without further authorization.

ACCEPTED:
By:
CONTRACTOR (Signature)
Date:

RECOMMENDED:
By:
ENGINEER (Signature)
Date:

APPROVED:
By:
OWNER (Signature)
Date:

\*\*\* END OF SECTION \*\*\*

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**Attachment A – Schedule of Permit Fees (if needed)**

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## Indian River County Building Division Permit Fee Schedule

#	Permit Type	Application Fee	Permit Fee	Comments
1	<b>New Buildings, Alterations, Mobile and Modular Homes</b>	\$200.00	0.394% of ICC Building Valuation over \$50,765	Base permit fee includes subcontractor work (electrical, plumbing, mechanical, insulation, alarm, and irrigation) if subcontractor work is shown on the permit documents, if the value of the subcontractor work is included as part of the aggregate construction value and if subcontractor affidavits are submitted with the application. Commercial Site work and all Accessory Structures are excluded.
2	<b>Additions, Alterations, Misc. Commercial</b>			

Residential / Commercial Trade Permits					
#		Permit Fee	Comments		
3	Aboveground Swimming Pool	\$75.00	Additional permit fee of 0.394% of contract / work order valuation over \$19,039; permit fee due at time of application. Fee Includes one inspection. Trade permits requiring plan review subject to a \$55 plan review fee.		
4	Burglar Alarm	\$75.00			
5	Electric	\$75.00			
6	Electrical	\$75.00			
7	Electrical Service Change	\$75.00			
8	Electrical Temporary Pole	\$75.00			
9	Fence	\$75.00			
10	Fuel Gas	\$75.00			
11	In-fill Screening	\$75.00			
12	Insulation	\$75.00			
13	Irrigation System	\$75.00			
14	Mechanical	\$75.00			
15	Plumbing	\$75.00			
16	Pool Barrier (excluding screened enclosure)	\$75.00			
17	Pre-fabricated detached accessory structure	\$75.00			
18	Residential Paving (Driveway, Patio Slab)	\$75.00			
19	Solar water or PV	\$75.00			
Residential Specialty Permits					
#	Permit Type	Permit Fee		Comments	
20	Door / Window - Replacement / Hurricane Shutters	\$75.00	Fee includes up to 4 components or openings	Additional permit fee of 0.394% of contract / work order valuation over \$19,039; permit fee due at time of application. Fee Includes one inspection. Trade permits requiring plan review subject to a \$55 plan review fee.	
21	Door / Window - Replacement / Hurricane Shutters	\$200.00	Greater than 4 components or openings	Additional permit fee of 0.394% of contract / work order valuation over \$50,765; permit fee due at time of application.	
22	Garage door replacement - (1Door)	\$75.00	\$25 for each additional door in the same building / unit	Additional permit fee of 0.394% of contract / work order valuation over \$19,039; permit fee due at time of application. Fee Includes one inspection. Trade permits requiring plan review subject to a \$55 plan review fee.	



<b>Level-1 Specialty Permits</b>					
#	Permit Type	Permit Application Fee	Comments		
23	Aluminum Structures	\$200.00	Additional permit fee of 0.394% of contract / work order valuation over \$50,765; permit fee due at time of application.		
24	Sign	\$200.00			
25	Demolition	\$200.00			
26	Deck, Dock or Seawall	\$200.00			
27	Door or window replacement- Commercial	\$200.00			
28	Garage doors replacement – Commercial	\$200.00			
29	House Moving	\$200.00			Separate Alteration permit required for foundation and improvements at relocation site.
30	Hurricane Shutters - Commercial	\$225.00			
31	Site-Built Accessory Structure	\$200.00			
32	Commercial Paving	\$200.00			
<b>Level-2 Residential and Commercial Specialty Permits</b>					
#	Permit Type	Application Fee	Permit Fee	Comments	
33	Miscellaneous Permits: e.g: Fixed Station Generator		\$225.00	Additional permit fee of 0.394% of contract / work order valuation over \$57,108; permit fee due at time of application.	
34	Re-roofing		\$225.00		
35	Residential Pool		\$225.00		
36	Commercial Pool	\$200.00	\$250.00		
<b>INSPECTION RELATED FEES</b>					
		<b>FEE</b>		<b>Comments</b>	
37	Re-inspection fee	\$45.00		[1] failure to comply with code/plan requirements. [2] unproductive inspector trip (unable to access the work or not ready for inspection). [3] Advisory Inspection requested by contractor or owner.	
38	After-Hour Inspections	\$50 / hour. Minimum 4-hour charge		Must be arranged 2 days in advance.	

	<b>Plan Review</b>	<b>FEE</b>		<b>Comments</b>
39	1st and 2nd Application / Plan Rejection / Modification	\$100 each		When content fails to meet sufficiency Requirement Check List (per state statute).
40	3rd and subsequent Application / Plan Rejection / Modification	Three (4) times the original plan review fee (1/3 permit fee)		When content fails to meet sufficiency Requirement Check List (per state statute).
41	Revision - small format	\$50.00		one 8.5 x 11 sheet
42	Revision - large format	\$100.00		plan sheets - large format - or more than one 8.5x11
43	Pre-Application Design Review	\$100.00		
<b>Contractor Licensing</b>				
		<b>FEE</b>		
44	Competency Card Application Fee	\$50.00		
45	Competency Card Renewal Fee	\$50.00		
<b>Administrative Service Fees</b>				
		<b>FEE</b>		<b>Comments</b>
46	Microfilm / Microfiche Document Requests Document Research	See Archive Request form		
47	Digital Document requests	See Archive Request form		
48	Paper documents from database or copier	0.25* / 0.50** per page fee		8.5x11*, 8.5x14*, 11x17**
49	Change of contractor	\$50.00		
50	Change of sub-contractor	\$20.00		
<b>GENERAL INFORMATION</b>				
	<b>Valuation methodology</b>	Valuation is based on the greater of contract value or latest ICC valuation table or as otherwise acceptable to the Building Official for specialty work not addressed by the ICC valuation table. The job valuation must include labor, overhead and profit. Valuation of total improvement (excluding land) shall be used.		
	<b>Penalties (statutory).</b>	Any person who commences any work requiring a permit before obtaining the permit shall be subject to a penalty of one hundred percent (100%) (Double) of the standard permit fee. The payment of such penalty shall not relieve any person(s) from complying with the requirement of the Building Code, the IRC Code of Ordinances, any applicable laws, or this resolution		
	<b>Multiple Buildings</b>	Multiple Buildings on one property: Work in common areas of buildings is individually permitted per building not per property.		
	<b>Refunds</b>	Permit and Permit Application fees are non-refundable.		

# **100% REVIEW DOCUMENTS TECHNICAL SPECIFICATIONS**

FOR THE

## **INDIAN RIVER COUNTY COURTHOUSE METAL ROOFING REPLACEMENT PROJECT**

IRC - 1764

JANUARY 15, 2021

PREPARED FOR:



INDIAN RIVER COUNTY, FLORIDA

PREPARED BY:



**JAY AMMON ARCHITECT, INC.**

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THE CONTRACTOR IS REQUIRED TO COMPARE THIS PROJECT MANUAL WITH THE INDEX BELOW FOR COMPLETENESS. IF ANY PAGES ARE MISSING OR ILLEGIBLE IT IS THEIR RESPONSIBILITY TO REQUEST REPLACEMENTS FROM THE ARCHITECT.

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Contract drawings will be attached at the end of the project manual.

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**PROJECT MANAGER:** **Michael Heller**  
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END OF SECTION

## DIVISION 2 – SITE WORK

### SECTION 024119 - SELECTIVE DEMOLITION

#### PART 1 - GENERAL

##### 1.1 SUMMARY

###### A. Section Includes:

1. Demolition and removal of selected portions of building or structure.
2. Salvage of existing items to be reused or recycled.

##### 1.2 DEFINITIONS

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

##### 1.3 INFORMATIONAL SUBMITTALS

- A. A pre-construction video and photos shall be submitted prior to mobilization or work commencing on the jobsite.

##### 1.4 CLOSEOUT SUBMITTALS

- A. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.

##### 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 Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

#### 1.6 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective demolition, by methods and with materials so as not to void existing warranties.

### 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/ASSE A10.6 and NFPA 241.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
- C. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.
- D. Engage a professional engineer to perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building demolition operations.
- E. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs or preconstruction videotapes.



### 3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

- A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.
  - 1. Comply with requirements for existing services/systems interruptions specified in the Division 1 Documents.
  
- B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.
  - 1. Arrange to shut off indicated utilities with utility companies.
  - 2. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
  - 3. Disconnect, demolish, and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated to be removed.
    - a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
    - b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material.
    - c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
    - d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
    - e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.
    - f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
    - g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material.

### 3.3 PREPARATION

- A. 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.
  - 1. Comply with requirements for access and protection specified in Owner provided Division 1 documents.
  
- B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
  
- C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of

construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

### 3.4 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. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations.
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. Removed and Reinstalled Items:

1. Clean and repair items to functional condition adequate for intended reuse.
2. Protect items from damage during transport and storage.
3. Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

### 3.5 DISPOSAL OF DEMOLISHED MATERIALS

A. General: Except for items or materials indicated to be reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.

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.
- B. Burning: Do not burn demolished materials.
- C. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

### 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

## DIVISION 6 – WOOD AND PLASTICS

### SECTION 061000 - ROUGH CARPENTRY

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. Section Includes:
  - 1. Wood blocking and nailers.
  - 2. Plywood

##### 1.2 ACTION SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product.
  - 1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements

##### 1.3 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.
- B. Evaluation Reports: For the following, from ICC-ES:
  - 1. Wood-preservative-treated wood.

#### PART 2 - PRODUCTS

##### 2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
  - 1. Factory mark each piece of lumber with grade stamp of grading agency.

- B. Maximum Moisture Content of Lumber: 15 percent for 2-inch nominal (38-mm actual) thickness or less, 19 percent for more than 2-inch nominal (38-mm actual) thickness unless otherwise indicated.

## 2.2 WOOD-PRESERVATIVE-TREATED LUMBER

- A. Preservative Treatment by Pressure Process: AWWA U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.
  - 1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.
- B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or that does not comply with requirements for untreated material.
- C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
- D. Application: Treat all rough carpentry unless otherwise indicated.
- E. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
  - 1. Blocking.
  - 2. Nailers.
- F. For items of dimension lumber size, provide Construction or No. 2 grade lumber of any species.
- G. For concealed boards, provide lumber with 15 percent maximum moisture content and any of the following species and grades:
  - 1. Mixed southern pine; No. 2 grade; SPIB.
  - 2. Eastern softwoods; No. 2 Common grade; NeLMA.
  - 3. Northern species; No. 2 Common grade; NLGA.
  - 4. Western woods; Construction or No. 2 Common grade; WCLIB or WWPA.

## 2.3 PLYWOOD

- A. Equipment Backing Panels: Plywood, DOC PS 1, Exterior, A-C in thickness indicated or, if not indicated. Match existing thickness.

## 2.4 FASTENERS

- A. General: Provide fasteners of size and type indicated.

1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners of Type 304 stainless steel.
- B. Power-Driven Fasteners: NES NER-272.
- C. Bolts: Steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION, GENERAL

- A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.
- B. Do not splice structural members between supports unless otherwise indicated.
- C. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.

#### 3.2 PROTECTION

- A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.
- B. Protect rough carpentry from weather. If, despite protection, rough carpentry becomes sufficiently wet that moisture content exceeds that specified, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION

## DIVISION 7 – THERMAL AND MOISTURE PROTECTION

### SECTION 074110 - STANDING-SEAM METAL ROOF PANELS

#### PART 1 - GENERAL

- 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 standing-seam metal roof panels.

#### 1.3 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at project site.
  - 1. Meet with Owner, Architect, Owner's insurer if applicable, metal panel Installer, metal panel manufacturer's representative, structural-support Installer, and installers whose work interfaces with or affects metal panels, including installers of roof accessories and roof-mounted equipment.
  - 2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - 3. Review methods and procedures related to metal panel installation, including manufacturer's written instructions.
  - 4. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
  - 5. Review structural loading limitations of deck, purlins, and rafters during and after roofing.
  - 6. Review flashings, special details, drainage, penetrations, equipment curbs, and condition of other construction that affect metal panels.
  - 7. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
  - 8. Review temporary protection requirements for metal panel systems during and after installation.
  - 9. Review procedures for repair of metal panels damaged after installation.
  - 10. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

#### 1.4 ACTION SUBMITTALS

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

1. 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 (1:10).

C. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.

1. Metal Panels: 12 inches (305 mm) long by actual panel width. Include clips, fasteners, closures, and other metal panel accessories.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Test Reports: For each product, for tests performed by a qualified testing agency.
- C. Field quality-control reports.
- D. Sample Warranties: For special warranties.

1.6 CLOSEOUT SUBMITTALS

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

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- B. UL-Certified, Portable Roll-Forming Equipment: UL-certified, portable roll-forming equipment capable of producing metal panels warranted by manufacturer to be the same as factory-formed products. Maintain UL certification of portable roll-forming equipment for duration of work.
- C. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
  1. Build mockup of typical roof area and eave, including fascia, and soffit as shown on Drawings; approximately 48 inches (1200 mm) square by full thickness, including attachments, underlayment, and accessories.



2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
3. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

#### 1.8 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.

#### 1.9 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.

#### 1.10 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.

#### 1.11 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: 20 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 Hunter units when tested according to ASTM D 2244.
    - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
    - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
  2. Finish Warranty Period: 20 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.
- D. Wind-Speed Warranty: Metal roof panels will resist blow-off or damage caused by wind speeds of up to 120 mph for 20 years from date of Substantial Completion.
- E. Installers Warranty: Contractor's form in which Contractor agrees to repair or replace standing-seam metal roof panel assemblies that fail to remain weathertight, including leaks, for 5 years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Energy Performance: Provide roof panels that are listed on the EPA/DOE's ENERGY STAR "Roof Product List" for steep-slope roof products.
- B. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E 1592:
  1. Wind Loads: As indicated on Drawings.
  2. Deflection Limits: For wind loads, no greater than 1/180 of the span.
- C. Water Penetration under Static Pressure: No water penetration when tested according to ASTM E 1646 at the following test-pressure difference:
  1. Test-Pressure Difference: 6.24 lbf/sq. ft. (300 Pa).
- D. Hydrostatic-Head Resistance: No water penetration when tested according to ASTM E 2140.

- E. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
  - 1. Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

## 2.2 STANDING-SEAM METAL ROOF PANELS

- A. General: 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. Aluminum Panel Systems: Unless more stringent requirements are indicated, comply with ASTM E 1637.
- B. Vertical-Rib, Double Locked, Standing-Seam Metal Roof Panels: Formed with vertical ribs at panel edges and intermediate stiffening ribs symmetrically spaced] 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 mechanically seaming panels together. Panels are to be formed to comply with existing building radius configurations.
  - 1. Subject to compliance with the construction documents, the following manufacturers are approved:
    - a. Peterson Aluminum
    - b. Merchant and Evans
    - c. IMETCO
  - 2. Aluminum Sheet: Coil-coated sheet, ASTM B 209 (ASTM B 209M), alloy as standard with manufacturer, with temper as required to suit forming operations and structural performance required.
    - a. Thickness: 0.040 inch (1.02 mm).
    - b. Surface: Two equally spaced ribs.
    - c. Exterior Finish: Two-coat fluoropolymer.
    - d. Color: Match adjacent panels from manufacturer's standard colors.
  - 3. Clips: Two-piece floating to accommodate thermal movement.
    - a. Material: 0.062-inch- (1.59-mm-) thick, stainless-steel sheet.
  - 4. Joint Type: Double Lock.
  - 5. Panel Width: 16 inches (305 mm).
  - 6. Panel Height: 2 inches (38 mm).

## 2.3 UNDERLAYMENT MATERIALS

- A. Self-Adhering, High-Temperature Underlayment: Provide self-adhering, cold-applied, sheet underlayment, a minimum of 40 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 over the cover board prior to installation of the underlayment.
1. Thermal Stability: Stable after testing at 250 deg F (116 deg C); ASTM D 1970.
  2. Low-Temperature Flexibility: Passes after testing at minus 20 deg F (29 deg C); ASTM D 1970.
  3. Subject to compliance with the construction documents, the following manufacturers are approved:
    - a. Carlisle WIP 300HT
    - b. Grace Ice & Water Shield HT

## 2.4 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Sub-framing and Furring: ASTM C 645; cold-formed, metallic-coated steel sheet, ASTM A 653/A 653M, G90 (Z275 hot-dip galvanized) coating designation or ASTM A 792/A 792M, Class AZ50 (Class AZM150) coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
- B. 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.
- C. 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. The drawings indicate the thickness of the metal.
- D. Gutters: Formed from material as designated within specification section 076200, complete with end pieces, outlet tubes, and other special pieces as required. Fabricate in minimum 96-inch- (2400-mm-) long sections, of size and metal thickness according to SMACNA's "Architectural Sheet Metal Manual." Furnish gutter supports spaced a maximum of 30 inches (914 mm) o.c., fabricated from same metal as gutters. The drawings indicate the thickness of the metal.
- E. Downspouts: Formed from material as designated within specification section 076200. Fabricate in 10-foot- (3-m-) long sections, complete with formed elbows and offsets, of

size and metal thickness according to SMACNA's "Architectural Sheet Metal Manual."  
Finish downspouts to match gutters.

- F. Panel Fasteners: Self-tapping screws designed to withstand design loads.
- G. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are non-staining, 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, non-staining tape 1/2 inch (13 mm) wide and 1/8 inch (3 mm) thick.
  - 2. Joint Sealant: ASTM C 920; 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.
  - 3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C 1311.

## 2.5 FABRICATION

- A. General: 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. On-Site Fabrication: Subject to compliance with requirements of this Section, metal panels may be fabricated on-site using UL-certified, portable roll-forming equipment if panels are of same profile and warranted by manufacturer to be equal to factory-formed panels. Fabricate according to equipment manufacturer's written instructions and to comply with details shown. All panels must be continuous. No end joints are permitted.
- C. Provide panel profile, including major ribs and intermediate stiffening ribs for full length of panel.
- D. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.
- E. 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 Aluminum: Adhere with Methacrylate Adhesive for all non-moving joints and seams. Basis of Design: "SG300" manufactured by SCIGRIP Adhesives. Provide mock-up for Owner / Architect approval.
3. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
4. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
5. 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 indicated, 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. Aluminum Panels and Accessories:
  1. Two-coat fluoropolymer.

## 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 primary and secondary roof framing to verify that rafters, purlins, angles, channels, and other structural panel support members and anchorages have been installed within alignment tolerances required by metal roof panel manufacturer.
  2. 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 PREPARATION

- A. Miscellaneous Supports: If required, install sub-framing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal panel manufacturer's written recommendations.

### 3.3 UNDERLAYMENT INSTALLATION

- A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated on Drawings, wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches (152 mm) staggered 24 inches (610 mm) between courses. Overlap side edges not less than 3-1/2 inches (90 mm). Extend underlayment into gutter trough. Roll laps with roller. Cover underlayment within 14 days.
  1. Apply over the entire roof surface.
- B. Flashings: Install flashings to cover underlayment to comply with requirements specified in Section 076200 "Sheet Metal Flashing and Trim."

### 3.4 METAL PANEL INSTALLATION

- A. General: 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. No panel splices are permitted.

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. Aluminum Panels: Use stainless-steel fasteners.
- 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. Joint: Double lock joints with factory-applied butyl sealant. Completely engage all joints.
  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.
- 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 (3 m) with no joints allowed within 24 inches (610 mm) 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 (25 mm) deep, filled with mastic sealant (concealed within joints).
- H. Gutters: Join sections with riveted and welded sealed joints. Attach gutters to eave with gutter hangers and gutter straps, each spaced not more than 30 o.c. using manufacturer's standard fasteners. Provide end closures and seal watertight with sealant. Provide for thermal expansion.
- I. Downspouts: Join sections with telescoping joints. Provide fasteners designed to hold downspouts securely 1 inch (25 mm) away from walls; locate fasteners at top and bottom and at approximately 60 inches (1524 mm) o.c. in between.
  1. Provide elbows at base of downspouts to direct water away from building.
  2. Connect downspouts to existing PVC downspouts.
- J. Roof Curbs: Install flashing around bases where they meet metal roof panels.
- K. Pipe Flashing: Form flashing around pipe penetration and metal roof panels. Fasten and seal to metal roof panels as recommended by manufacturer.

### 3.5 ERECTION TOLERANCES

- A. Installation Tolerances: Shim and align metal panel units within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m) on slope and location lines as indicated and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.

### 3.6 FIELD QUALITY CONTROL

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

### 3.7 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.

END OF SECTION 074110

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

SECTION 076200 - SHEET METAL FLASHING AND TRIM

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Carlisle WIP 300HT
  2. Grace Ice & Water Shield HT

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For each of the following
1. Underlayment materials.
  2. Elastomeric sealant.
  3. Butyl sealant.
- B. Shop Drawings: For sheet metal flashing and trim.
1. Include plans, elevations, sections, and attachment details.
  2. Detail fabrication and installation layouts, expansion-joint locations, and keyed details. Distinguish between shop- and field-assembled Work.
  3. Include identification of material, thickness, weight, and finish for each item and location in Project.
  4. Include details for forming, including profiles, shapes, seams, and dimensions.
  5. Include details for joining, supporting, and securing, including layout and spacing of fasteners, cleats, clips, and other attachments. Include pattern of seams.
  6. Include details of termination points and assemblies.
  7. Include details of expansion joints and expansion-joint covers, including showing direction of expansion and contraction from fixed points.
  8. Include details of roof-penetration flashing.
  9. Include details of edge conditions.
  10. Include details of special conditions.
  11. Include details of connections to adjoining work.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of coping and roof edge flashing that is ANSI/SPRI/FM 4435/ES-1 tested.
- B. Sample warranty.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Maintenance data.
- B. Special warranty.

#### 1.6 QUALITY ASSURANCE

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

#### 1.7 WARRANTY

- A. Special Warranty on Finishes: Manufacturer agrees to repair finish or replace sheet metal flashing and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.
  - a. 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: Sheet metal flashing and trim assemblies, including cleats, anchors, and fasteners, shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.
- B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual: Architectural Metal Flashing, Condensation and Air Leakage Control, and Reroofing" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.
- C. SPRI Wind Design Standard: Manufacture and install copings and roof edge flashings tested in accordance with ANSI/SPRI/FM 4435/ES-1 and capable of resisting the following design pressure:

1. Design Pressure: As indicated on Drawings.

D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

## 2.2 SHEET METALS

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

B. Stainless Steel Sheet: ASTM A240/A240M, Type 304, dead soft, fully annealed; with smooth, flat surface.

1. Finish: ASTM A480/A480M, No. 2D (dull, cold rolled) or shop pre-coated with PVDF coating; color to match roof and wall panels.

C. Aluminum Sheet: ASTM B 209 (ASTM B 209M), alloy as standard with manufacturer for finish required, with temper as required to suit forming operations and performance required; with smooth surface.

1. Finish: Shop pre-coated with PVDF coating; custom color to match roof and wall panels.

D. Sheet metal fastenings:

1. Rivets, nails, sheet metal screws, machine screws, self-tapping screws, and stove bolts, of the types and size best adapted to conditions of use.

a. Stainless steel: Use Type 302 stainless steel or other type to match stainless steel being fastened.

2. Pop rivets, by United Shoe Machinery Corp., may be used for metal-to-metal connections when future disassembly is not required. Open-end type may be used for all applications except where watertight connections are required, in which case use closed-end type. Use pop rivets made from same type material as metals to be fastened.

## 2.3 UNDERLAYMENT MATERIALS

A. Self-Adhering, High-Temperature Sheet Underlayment: Minimum 30 mils (0.76 mm) thick, consisting of a slip-resistant polyethylene- or polypropylene-film top surface laminated to a layer of butyl- adhesive, with release-paper backing; specifically designed to withstand high metal temperatures beneath metal roofing. Provide primer in accordance with underlayment manufacturer's written instructions.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - a. GCP Applied Technologies Inc.
  - b. Henry Company.
2. Low-Temperature Flexibility: ASTM D1970/D1970M; passes after testing at minus 20 deg F (29 deg C) or lower.
3. Standard Testing method for linear dimensional changes of nonrigid thermoplastic sheeting or film at elevated temperature: ASTM D1204 – above 280 degrees F service temp.

## 2.4 MISCELLANEOUS MATERIALS

- A. General: Provide materials and types of fasteners, solder, 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: Self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.
  1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.
  2. Fasteners for Stainless Steel Sheet: Series 300 stainless steel.
  3. Fasteners for Steel Sheet: Series 300 stainless steel
- C. Solder:
  1. For Stainless Steel: ASTM B32, Grade Sn60, with acid flux of type recommended by stainless steel sheet manufacturer.
  2. For Zinc-Coated (Galvanized) Steel: ASTM B32, Grade Sn50, 50 percent tin and 50 percent lead or Grade Sn60, 60 percent tin and 40 percent lead.
- D. Sealant Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch (13 mm) wide and 1/8 inch (3 mm) thick.
- E. Elastomeric Sealant: ASTM C920, elastomeric polyurethane polymer sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and trim and remain watertight.
- F. Butyl Sealant: ASTM C1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type expansion joints with limited movement.

## 2.5 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 (6 mm in 6 m) on slope and location lines indicated on Drawings and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.
  - 2. Fabricate sheet metal flashing and trim that is capable of installation to tolerances specified.
- C. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.
  - 1. Use lapped expansion joints only where indicated on Drawings.
- 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 for application, but not less than thickness of metal being secured.
- G. Seams:
  - 1. Tin edges to be seamed, form seams, and solder.

## 2.6 ROOF-DRAINAGE SHEET METAL FABRICATIONS

- A. Hanging Gutters:
  - 1. Fabricate to cross section required, complete with end pieces, outlet tubes, and other accessories as required.

2. Fabricate in minimum 96-inch- (2400-mm-) long sections.
  3. Fabricate expansion joints, expansion-joint covers, gutter bead reinforcing bars, and gutter accessories from same metal as gutters. Shop fabricate interior and exterior corners.
- B. Downspouts: .050 Aluminum, .060 Aluminum at bottom 6', primed and painted to match the wall color.
- C. Downspout Strap: .050 Aluminum, ASTM B209.
- D. Gutter: .050 Aluminum, ASTM B209.
- E. Gutter Bracket: 1/8" x 1" Aluminum, ASTM B209.
- F. Gutter Strap: .050 Aluminum, ASTM B209.
- G. Gutter Throat: .050 Aluminum, ASTM B209.
- H. Metal Cleat: 20 Gauge Stainless Steel, Type 316
- I. Metal Counter-flashing Type 2: .040 Aluminum, ASTM B209.
- J. Metal Edge: .050 Aluminum, ASTM B209.
- K. One-Piece Transition Flashing: .050 Aluminum, ASTM B209.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION OF UNDERLAYMENT

- A. Felt Underlayment: Install felt underlayment, wrinkle free, using adhesive to minimize use of mechanical fasteners under sheet metal flashing and trim.
1. Install in shingle fashion to shed water.
  2. Lap joints not less than 2 inches (50 mm).
- B. Self-Adhering, High-Temperature Sheet Underlayment:
1. Install self-adhering, high-temperature sheet underlayment; wrinkle free.
  2. Prime substrate if recommended by underlayment manufacturer.
  3. Comply with temperature restrictions of underlayment manufacturer for installation; use primer for installing underlayment at low temperatures.
  4. Apply in shingle fashion to shed water, with end laps of not less than 6 inches (150 mm) staggered 24 inches (600 mm) between courses.
  5. Overlap side edges not less than 3-1/2 inches (90 mm). Roll laps and edges with roller.
  6. Roll laps and edges with roller.
  7. Cover underlayment within 14 days.



### 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, solder, 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 solder and 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 (300 mm) 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.
  
- B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.
  - 1. Coat concealed side of stainless steel sheet metal flashing and trim with bituminous coating where flashing and trim contact wood, ferrous metal, or cementitious construction.
  - 2. Underlayment: Where installing sheet metal flashing and trim directly on cementitious or wood substrates, install underlayment and cover with slip sheet.
  
- C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim.
  - 1. Space movement joints at maximum of 10 feet (3 m) with no joints within 24 inches (600 mm) of corner or intersection.
  - 2. Use lapped expansion joints only where indicated on Drawings.
  
- 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. Form joints to completely conceal sealant.

- b. When ambient temperature at time of installation is between 40 and 70 deg F (4 and 21 deg C), set joint members for 50 percent movement each way.
  - c. Adjust setting proportionately for installation at higher ambient temperatures.
    - 1) Do not install sealant-type joints at temperatures below 40 deg F (4 deg C).
  2. Prepare joints and apply sealants to comply with requirements in Section 079200 "Joint Sealants."
- G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter.
1. Pretin edges of sheets with solder to width of 1-1/2 inches (38 mm); however, reduce pretinning where pretinned surface would show in completed Work.
  2. Do not use torches for soldering.
  3. Heat surfaces to receive solder, and flow solder into joint.
    - a. Fill joint completely.
    - b. Completely remove flux and spatter from exposed surfaces.
  4. Stainless Steel Soldering:
    - a. Tin edges of uncoated sheets, using solder for stainless steel and acid flux.
    - b. Promptly remove acid-flux residue from metal after tinning and soldering.
    - c. Comply with solder manufacturer's recommended methods for cleaning and neutralization.

### 3.3 INSTALLATION OF ROOF-DRAINAGE SYSTEM

- A. Install sheet metal roof-drainage items to produce complete roof-drainage system in accordance with cited sheet metal standard unless otherwise indicated. Coordinate installation of roof perimeter flashing with installation of roof-drainage system.
- B. Hanging Gutters:
  1. Join sections with riveted and soldered joints.
  2. Provide for thermal expansion.
  3. Attach gutters at eave or fascia to firmly anchor them in position.
  4. Provide soldered end closures.
  5. Slope to downspouts.
  6. Install gutter with expansion joints at locations indicated on Drawings, but not exceeding, 40 feet (15.2 m) apart. Install expansion-joint caps.

### 3.4 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 (75-mm) centers.

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 (6 mm in 6 m) on slope and location lines indicated on Drawings and within 1/8-inch (3-mm) 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 and neutralize flux materials. Clean off excess solder.
- C. 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. 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.

END OF SECTION 076200

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

SECTION 079200 - JOINT SEALANTS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
  - 1. Silicone joint sealants.
  - 2. Urethane joint sealants.
  - 3. Butyl joint sealants

1.2 SUBMITTALS

- A. Product Data: For each joint-sealant product indicated.
- B. Samples: For each kind and color of joint sealant required.
- C. Product test reports.
- D. Warranties.

1.3 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Qualified according to ASTM C 1021 to conduct the testing indicated.

1.4 WARRANTY

- A. Special Installer's Warranty: Manufacturer's standard form in which Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
  - 1. Warranty Period: Five years from date of Substantial Completion.
- B. Special Manufacturer's Warranty: Manufacturer's standard form in which joint-sealant manufacturer agrees to furnish joint sealants to repair or replace those that do not comply with performance and other requirements specified in this Section within specified warranty period.
  - 1. Warranty Period: Ten years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 MATERIALS, GENERAL

### 2.2 SILICONE JOINT SEALANTS

#### A. Mildew-Resistant Neutral-Curing Acid-Curing Silicone Joint Sealant: ASTM C 920.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - a. BASF Building Systems.
  - b. Dow Corning Corporation.
  - c. Sika Corporation, Construction Products Division.
2. Type: Single component (S).
3. Grade: nonsag (NS).
4. Class: 100/50.
5. Uses Related to Exposure: Nontraffic (NT).

### 2.3 URETHANE JOINT SEALANTS

#### A. Urethane Joint Sealant: ASTM C 920.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - a. Sika Corporation; Construction Products Division.
  - b. BASF Building System
  - c. Dow Corning Corporation
2. Type: Single component (S).
3. Grade: nonsag (NS).
4. Class: 100/50.
5. Uses Related to Exposure: Nontraffic (NT).

### 2.4 SOLVENT-RELEASE-CURING JOINT SEALANTS (Butyl)

#### A. Butyl-Rubber-Based Joint Sealant: ASTM C 1311.

1. Products: Subject to compliance with requirements, provide the following:
  - a. Bostik, Inc.; Chem-Calk 300.
  - b. Pecora Corporation; BC-158.
  - c. Tremco Incorporated; Tremco Butyl Sealant.

## 2.5 JOINT SEALANT BACKING

- A. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- B. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer.

## 2.6 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials.
- C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions.
  - 1. Remove laitance and form-release agents from concrete.
  - 2. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants.
- B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

### 3.2 INSTALLATION

- A. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- B. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
  - 1. Do not leave gaps between ends of sealant backings.
  - 2. Do not stretch, twist, puncture, or tear sealant backings.
  - 3. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.
- C. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.
- D. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
  - 1. Place sealants so they directly contact and fully wet joint substrates.
  - 2. Completely fill recesses in each joint configuration.
  - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
- E. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
  - 1. Remove excess sealant from surfaces adjacent to joints.
  - 2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
  - 3. Provide concave joint profile per Figure 8A in ASTM C 1193, unless otherwise indicated.
- F. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

### 3.3 FIELD QUALITY CONTROL

- A. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:
  - 1. Extent of Testing: Test completed and cured sealant joints as follows:

- a. Perform 3 tests for each type of adhesive and at each material type.
2. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1 in ASTM C 1193 or Method A, Tail Procedure, in ASTM C 1521.
- B. Evaluation of Field-Adhesion Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

### 3.4 JOINT-SEALANT SCHEDULE

- A. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces.
  1. Joint Locations:
    - a. All non-painted joints which are exposed to weather elements:
  2. Joint Sealant: Silicone.
  3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- B. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces.
  1. Joint Locations:
    - a. At all painted joints which are exposed to weather elements.
  2. Joint Sealant: Urethane.
  3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- C. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces.
  1. Joint Sealant Location:
    - a. At all joints which are concealed and not directly exposed to weather elements.
  2. Joint Sealant: Butyl.
  3. Joint-Sealant Color: Black.

END OF SECTION



DIVISION 9 – FINISHES

SECTION 092513 – ACRYLIC PLASTER FINISH

PART 1.00 - GENERAL

1.01 SECTION INCLUDES

- A. Textured finish system for exterior cement board soffit surfaces.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Sealants: Section 079200.

1.03 QUALITY ASSURANCE

- A. Comply with requirements of regulatory agencies.

- 1. In addition to complying with other legal requirements, comply with fire-resistive ratings of UL tested and listed assemblies for classification of construction required.

- B. Reference specifications and standards:

- 1. ASTM B 117 (Federal Test Standard 141A Method 6061) Test Method of Salt Spray (Fog) Testing.
- 2. ASTM C 67 Test Method for Sampling and Testing Brick and Structural Tile.
- 3. ASTM C 150 Specification for Portland Cement.
- 4. ASTM C 297 Test Method for Tensile Strength of Flat Sandwich Constructions in Flatwise Plane.
- 5. ASTM C 1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing
- 6. ASTM C 1396 (formerly C 79) Standard Specification for Gypsum Board
- 7. ASTM D 968 (Federal Test Standard 141A Method 6191) Test Method for Abrasion Resistance of Organic Coatings by Falling Abrasive.
- 8. ASTM D 3273 Test Method for Resistance to Growth of Mold on Surfaces.
- 9. ASTM E 84 Test Method for Surface Burning Characteristics of Building Materials.
- 10. ASTM E 96 Test Methods for Water Vapor Transmission of Materials.
- 11. ASTM E 331 Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference.
- 12. ASTM G 23 (Federal Test Standard 141A Method 6151) Recommended Practice for Operating Exposure Apparatus.

- C. Manufacturer's Qualifications: The textured finish system manufacturer shall be a company with at least twenty years of experience in manufacturing specialty finishes and regularly engaged in the manufacture and marketing of products specified herein. The manufacturer shall have an ISO 9001:2008 certified quality system and ISO 14001:2004 certified environmental management system.

- D. Installer's Qualifications: The contractor shall be qualified to perform the work specified by reason of experience. Contractor shall have at least 5 years of experience in commercial textured finish application, and shall have completed at least 3 projects of similar size and complexity. Contractor shall provide proof before commencement of work that he/she will maintain and supervise a qualified crew of applicators through the duration of the work. When requested Contractor shall provide a list of the last three comparable jobs including the name, location, and start and finish dates for the work.
- E. Mock-ups: The contractor shall install a 4 ft. x 8 ft mock-up of the system for evaluation and approval by the design professional, building owner, or owner's representative/quality assurance agent.
- F. Testing: Testing shall be conducted as directed by the design professional, building owner, or owner's representative/quality assurance agent to verify soffit/ceiling assembly performance and adhesion to prepared substrates.

#### 1.04 SUBMITTALS

- A. Procedure: In accord with Owner requests.
- B. Certificates: Manufacturer's certification that materials conform to Specifications requirements.
- C. Product data: Manufacturer's written recommendations for mix proportions and application for factory-prepared finish materials.
- D. Samples: The Contractor shall submit to the owner/architect two samples of each finish, texture and color to be used on the project. The same tools and techniques proposed for the actual installation shall be used to prepare the samples. Samples shall be 24 in. square panel to accurately represent each color and texture to be utilized on the project

#### 1.05 PRODUCT HANDLING

- A. Procedures: In accord with Owner requests.
- B. Immediately remove from site all materials which have been delivered in broken, damaged, or unlabeled condition.
- C. Protect materials from dampness.
- D. Store materials indoors, off floor.
- E. Deliver products in original packaging, labeled with product identification, manufacturer and batch number.
- F. Store projects in a dry area with temperature maintained between 50 and 85 degrees F. Protect from direct sunlight. Protect from freezing. Protect from extreme heat above 90 degrees F.

#### 1.06 WARRANTY

- A. Provide manufacturer's standard limited warranty.

## PART 2.00 - PRODUCTS

### 2.01 MATERIALS

- A. Textured Finish: High performance decorative and protective acrylic-based textyred wall finish with integral color, complies with SCAQMD Rule 1113 for acthirectural finishes.  
Basis of Design: Sto Essence DPR by Sto Corp.
- B. Primer: Acrylic-based saneded primer, complies with SCAQMD Rule 1113 for primers.  
Basis of Design: StoPrime by Sto Corp.
- C. Base Coat: One component polymer modified Portland cement high build base coat.  
Basis of Design: Sto BTS Plus by Sto Corp.
- D. Surface Reinforcement: maximum nominal 4.5 glass fiber reinforcing mesh by approved manufacturer.  
Basis of Design: Sto Mesh by Sto Corp.
- E. Coverboard: USG Securock or approved equal.

### 2.02 ACCESSORIES

- A. General: Comply with ASTM C 1063 and coordinate depth of trim and accessories with thicknesses and number of plaster coats required.
- B. Plastic Accessories:
  - 1. Casing Beads: With perforated flanges in depth required to suit plaster bases indicated and flange length to suit application indicated.
    - a. Square-edge style; use unless otherwise indicated.
  - 2. Control Joints: One-piece-type, folded pair of unperforated screeds in M-shaped configuration; with perforated flanges and removable protective tape on plaster face of control joint.
  - 3. Expansion Joints: Two-piece type, formed to produce slip-joint and square edges sized to match existing, with perforate concealed flanges.

## PART 3.00 - EXECUTION

### 3.01 EXAMINATION

- A. Examine surfaces for conditions that will adversely affect execution, permanence, and quality of work.
- B. Do not proceed with work until unsatisfactory conditions have been corrected.
- C. Verify that surfaces to be plastered are free of dust, loose particles, oil, and foreign matter which would affect bond of plaster coats.

- D. Examine framing, grounds, and accessories to ensure that finished plaster surfaces will be true to line, level and plumb, without requiring additional thicknesses of plaster. Soffit board surface shall not have irregularities in excess of 1/16".

### 3.02 PREPARATION

- A. Cover or otherwise protect finish materials subject to damage by plaster.
- B. Cover and protect all adjacent surfaces from plaster stains, including surfaces which will be covered by other finish materials.

### 3.03 MIXING

- A. Mix products in accordance with manufacturer's published literature. Refer to applicable product bulletins for specific information on use, handling, application, precautions and limitations of specific products.

### 3.04 APPLICATION

- A. General:
  - 1. Install corrosion proof termination accessories per ASTM D1784 (PVC) with perforated flanges for keying of the base coat at junctures with penetrations such as soffit vents, electrical fixtures, and with abutting walls and columns. Install corrosion proof control joints per ASTM D1784 (PVC) with perforated flanges for keying of the base coat at intervals as required by the soffit board manufacturer.
  - 2. Reinforce perforated flanges of accessories with minimum 4 inch (102 mm) wide strips mesh embedded in base coat. Where cement board is used tape joints between boards with minimum 4 inch (102 mm) wide mesh and skim with base coat. Alternatively tape joints with minimum 4 inch (1023 mm) wide mesh embedded in base coat. Allow base coat to dry.
  - 3. Install nominal 1/8-inch (3 mm) base coat by trowel to the soffit/ceiling board surface. Work horizontally or vertically in strips of 40 inches (1016 mm), and immediately embed the mesh into the wet base coat by troweling from the center to the edge of the mesh. Overlap mesh installed at perforated accessory flanges by installing mesh up to the termination bead of the accessory. Overlap mesh not less than 2-½ inches (64 mm) at mesh seams and feather at seams. Double wrap all inside and outside corners with minimum 8-inch (203 mm) overlap in each direction (except where corner bead is used at outside corners lap mesh over perforated flange of accessory). Avoid wrinkles in the mesh. The mesh must be fully embedded so that no mesh color shows through the base coat when it is dry. Re-skim with additional base coat if mesh color is visible. Do not install base coat and mesh onto solid (unperforated) portions of accessories.
  - 4. When the base coat application is dry apply the primer by brush or roller to the entire base coat surface.
  - 5. When the primer application is dry apply the textured finish by trowel. Apply finish in a continuous application, and work to a wet edge. Float the finish to achieve the desired texture.

6. Control joints shall be installed to match existing, not exceeding more than 20 linear feet or soffit areas which exceed 200 square feet. Expansion joints shall be installed at existing locations.
- D. Cleaning:
1. All excess materials shall be removed from the job site by the Contractor in accordance with contract provisions.
  2. All surrounding areas, where acrylic plaster finish system was installed, shall be left free of debris and foreign substances resulting from the Contractor's work.
- E. Protection: Provide protect of the installed material from water infiltration into or behind them during and after construction. Provide protection of installed materials from dust, dirt, precipitation, freezing and continuous high humidity until they are fully dry. Seal penetrations through the finished surface with backer rod and sealant or other appropriate means.

END OF SECTION

# 100% FINAL REVIEW DOCUMENTS

## INDIAN RIVER COUNTY

### INDIAN RIVER COUNTY COURTHOUSE

#### METAL ROOFING REPLACEMENT PROJECT

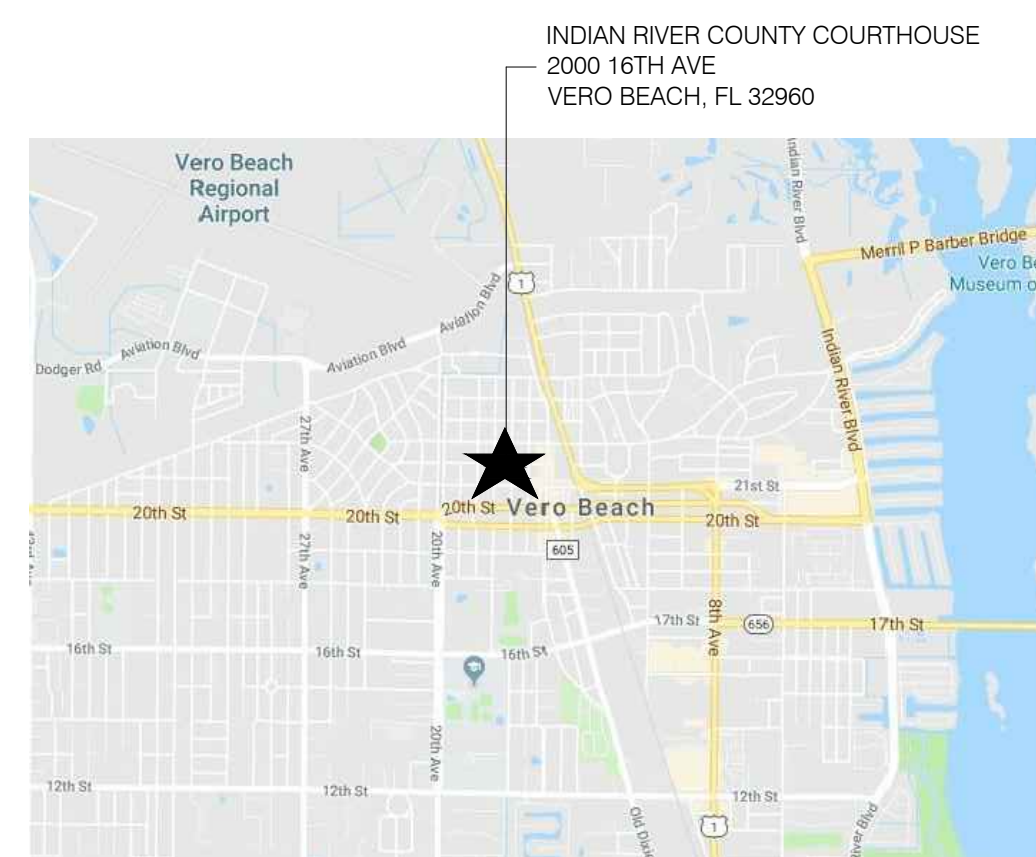
2000 16TH AVENUE  
VERO BEACH, FLORIDA 32960

PREPARED FOR:



JANUARY 15, 2021  
DRAWING INDEX

SHEET NUMBER	SHEET TITLE	ORIGINAL DATE	REVISION NUMBER	REVISION DATE
C1.0	COVER SHEET	01/15/2021	0	NA
A1.1	SYMBOLS, ABBREVIATIONS & CODE INFORMATION	01/15/2021	0	N/A
A1.2	GENERAL NOTES	01/15/2021	0	N/A
A1.3	SCOPE OF WORK	01/15/2021	0	NA
A1.4	LOCATION AND SITE PLAN	01/15/2021	0	NA
A2.1	DEMOLITION ROOF PLAN	01/15/2021	0	NA
A2.2	ENLARGED PROPOSED ROOF PLANS	01/15/2021	0	NA
A2.3	ENLARGED REFLECTED CEILING PLANS	01/15/2021	0	NA
A2.4	WIND UPLIFT PRESSURE ROOF PLANS	01/15/2021	0	NA
A2.5	DRAINAGE PLANS	01/15/2021	0	NA
A3.1	ROOF DETAILS	01/15/2021	0	N/A
A3.2	ROOF DETAILS	01/15/2021	0	N/A
A3.3	EXTERIOR CEILING DETAILS	01/15/2021	0	N/A
A3.4	GUTTER AND DOWNSPOUTS DETAILS	01/15/2021	0	N/A
A4.1	PHOTOGRAPHS	01/15/2021	0	N/A



SITE VICINITY MAP

**STATEMENT OF COMPLIANCE**  
TO THE BEST OF OUR KNOWLEDGE THESE DRAWINGS ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE 2020 (7TH ED), AND REFERENCED STATUTES, CODES, RULES AND REGULATIONS REFERENCED THEREIN.

**NOT FOR CONSTRUCTION**  
100% FINAL REVIEW DOCUMENTS  
INDIAN RIVER COUNTY  
INDIAN RIVER COUNTY COURTHOUSE  
VERO BEACH, FLORIDA  
METAL ROOFING  
REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC.  
3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779  
(407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: CAS PROJECT NUMBER: 20-002  
APPROVED BY: JPA PHASE: 100% FINAL REVIEW DOCS  
ENGINEER: DATE: JANUARY 15, 2021

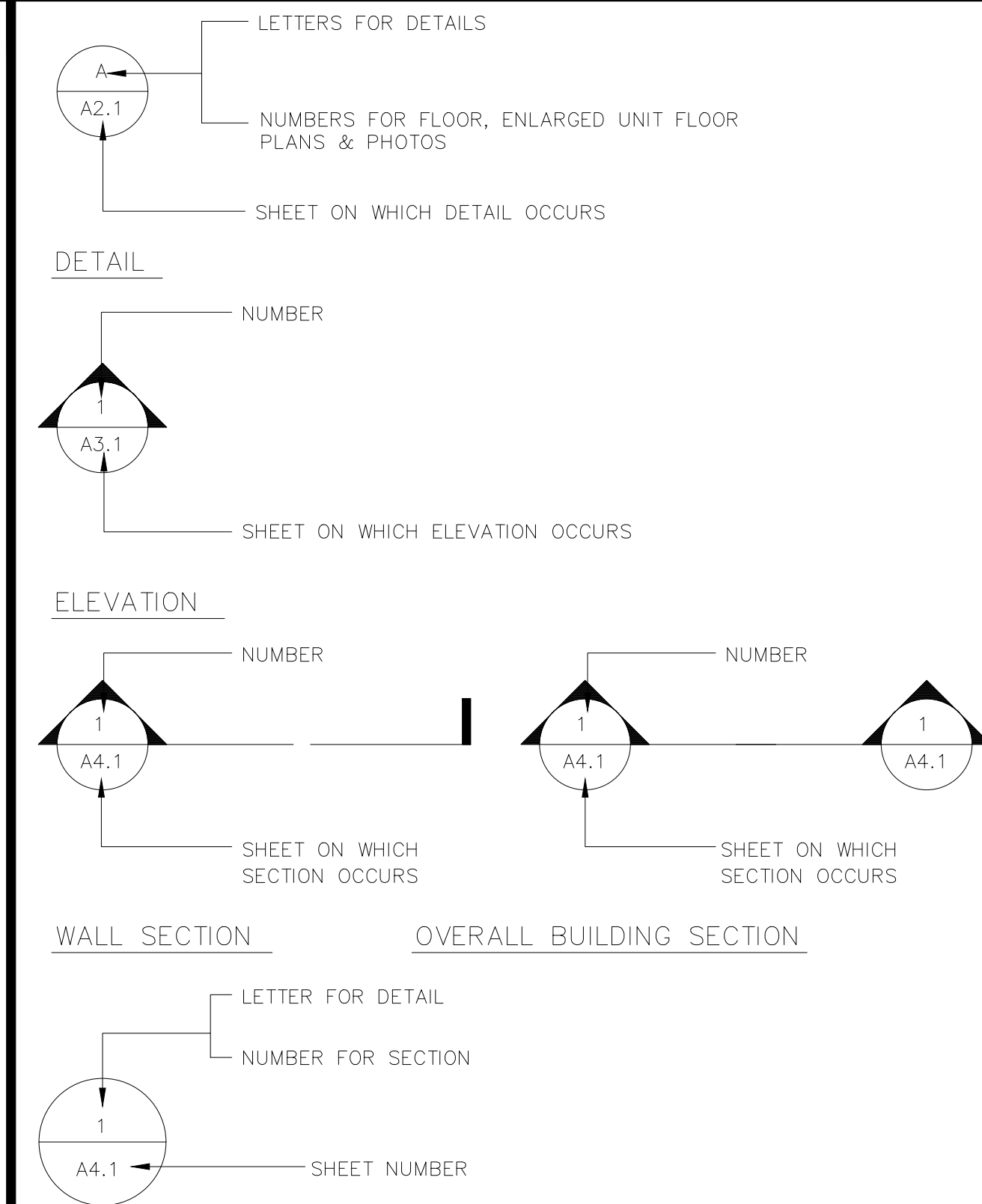
# ARCHITECTURAL ABBREVIATIONS

A/C	AIR CONDITIONING	MBSR	MODIFIED BITUMINOUS SHEET ROOFING
ACT	ACOUSTICAL CEILING TILE or ACOUSTICAL TREATMENT	MCC	MOTOR CONTROL CENTER
AD	AREA DRAIN or AREA DEVELOPMENT	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MET	METAL
ALUM	ALUMINUM	MEZZ	MEZZANINE
APPROX	APPROXIMATELY	MF	METAL FACE
ARF	ACRYLIC RESIN FLOORING	MFR	MANUFACTURER
AHU	AIR HANDLING UNIT	MIN	MINIMUM
BD	BOARD	MISC	MISCELLANEOUS
BF	BRICK FACE	MO	MASONRY OPENING
BLDG	BUILDING	MRT	MOISTURE RESISTANT TREATMENT
BO	BOTTOM OF	(N)	NEW
BOH	BACK OF HOUSE	NIC	NOT IN CONTRACT
BOT	BOTTOM	NR	NOT RATED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED	NTS	NOT TO SCALE
CJ	CONTROL JOINT	NRCA	NATIONAL ROOFING CONTRACTORS ASSOCIATION
CLG	CEILING	OC	ON CENTER
CLR	CLEAR	OCC	OPERATOR CONTROL CONSOLE
CMU	CONCRETE MASONRY UNIT	OCN	OPERATOR CONTROL PANEL
CO	CLEAN OUT	OD	OUTSIDE DIAMETER or OVERFLOW DRAIN
COL	COLUMN	OFI	OWNER FURNISHED ITEM
CONC	CONCRETE	OFOI	OWNER FURNISHED OWNER INSTALLED
CONT	CONTINUOUS	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CPT	CARPET	OPP	OPPOSITE
CT	CERAMIC TILE	P.S.I.	POUNDS PER SQUARE INCH
D	DEPTH	PF	PLASTER FACE
DBL	DOUBLE	PL	PLATE
DET	DETAIL	PLAM	PLASTIC LAMINATE
DIA	DIAMETER	PLYWD	PLYWOOD
DIAG	DIAGONAL	PNT	PAINT
DMP	DISTRESSED METAL PROCESS	POC	POINT OF CONNECTION
DN	DOWN	POS	POINT OF SALE
DS	DOWN SPOUT	PR	PAIR
DWG	DRAWING	PREP	PREPARATION
DWP	DISTRESSED WOOD PROCESS	PROJ	PROJECTION
DWR	DRAWER	PSF	POUNDS PER SQUARE FPPT
DL	DEAD LOAD	PT	PRESSURE TREATED
(E)	EXISTING	QT	QUARRY TILE
EA	EACH	R	RISER
EDF	ELECTRICAL DRINKING FOUNTAIN	R or RAD	RADIUS
EER	ELECTRONIC EQUIPMENT ROOM	RBC	RESILIENT BASE COVE
EH	EYEHOOK	RBS	RESILIENT BASE STRAIGHT
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	RC	REINFORCED CONCRETE
EJ	EXPANSION JOINT	RD	ROOF DRAIN
EL	ELEVATION	RCP	REFLECTED CEILING PLAN
ELEC	ELECTRICAL	REF	REFERENCE
EQ	EQUAL	REQD	REQUIRED
EQUIP	EQUIPMENT	RF	RESILIENT FLOOR
EXP	EXPOSED	RM	ROOM
EXT	EXTERIOR	RO	ROUGH OPENING
FBR	FABRIC	RS	ROUGH SAWN
FD	FLOOR DRAIN	SC	SOLID CORE
FDN	FOUNDATION	SF	SQUARE FEET or STONE FACE
FF	FINISH FLOOR	SHT	SHEET
FFE	FINISH FLOOR ELEVATION	SIM	SIMILAR
FHC	FIRE HOSE CABINET	SPF	SPECIAL FINISH
FMG	FACTORY MUTUAL GLOBAL	SQ	SQUARE
FRT	FIRE RETARDANT TREATED	SQ FT	SQUARE FEET OR SQUARE FOOT
FIN	FINISH	SS	STAINLESS STEEL
FLR	FLOOR	SSP	SANITARY SHEET PLASTIC
FOC	FACE OF CONCRETE	ST	STONE
FOF	FACE OF FINISH	STD	STANDARD
FOM	FACE OF MASONRY	STL	STEEL
FOS	FACE OF STUD	STRUCT	STRUCTURAL
FRP	FIBERGLASS REINFORCED PLASTIC	SUSP	SUSPENDED
FS	FLOOR SINK or FINISH SEALER	S4S	SURFACED FOUR SIDES
FT	FEET	SYP	SOUTHERN YELLOW PINE
GA	GAUGE	T	TREAD
GALV	GALVANIZED	T&G	TONGUE AND GROOVE
GFRC	GLASS FIBER REINFORCED CONCRETE	TEL	TELEPHONE
GFRG	GLASS FIBER REINFORCED GYPSUM	TOC	TOP OF CONCRETE or CURB
GAL	GALLON	TOM	TOP OF MASONRY
QL	GLASS	TOP	TOP OF PARAPET
GYP BD	GYPSUM BOARD	TOS	TOP OF STEEL
H	HIGH	TOW	TOP OF WALL
HB	HOSE BIBB	TYP	TYPICAL
HM	HOLLOW METAL	UL	UNDERWRITERS LABORATORIES INC.
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
HP	HIGH POINT	UPH	UPHOLSTERY
HR	HOUR	VCT	VINYL COMPOSITION TILE
HT	HEIGHT	VERT	VERTICAL
HVAC	HEATING VENTILATING & AIR CONDITIONING	VIF	VERIFY IN FIELD
ID	INSIDE DIAMETER	W	WIDE
INSUL	INSULATION	W/	WITH
INT	INTERIOR	WC	WALL COVERING OR WATER CLOSET
JT	JOINT	W/O	WITHOUT
KEC	KITCHEN EQUIPMENT CONTRACTOR	WF	WOOD FACE
KD	KILN DRIED	WD	WOOD
KDAT	KILN DRIED AFTER TREATMENT	WDB	WOOD BASE
LAV	LAVATORY	WDF	WOOD FLOOR
LL	LIVE LOAD	WP	WORK POINT
LP	LOW POINT	WR	WATER RESISTANT
MAINT	MAINTENANCE		
MATL	MATERIAL		
MAX	MAXIMUM		

# MATERIALS LEGEND

	ACOUSTICAL INSULATION
	ACOUSTICAL TILE
	BATT INSULATION
	PORTLAND CEMENT PLASTER
	PORTLAND CEMENT PLASTER OVER METAL LATH
	COMPRESSIBLE FILLER
	CONCRETE
	CONCRETE MASONRY UNIT
	EARTH
	C.M.U. ( SECTION )
	GLASS
	GYPSUM BOARD
	RIGID INSULATION
	METAL
	PLYWOOD
	DENS DECK SHEATHING
	WOOD BLOCKING
	CONTINUOUS WOOD MEMBER
	FINISHED WOOD MEMBER
	EXTERIOR INSULATION & FINISH SYSTEM

# SYMBOLS



## CODE INFORMATION

### APPLICABLE BUILDING CODES

BUILDING :	2020 FLORIDA BUILDING CODE – BUILDING	Edition :	SEVENTH
EXISTING :	2020 FLORIDA BUILDING CODE – EXISTING BUILDING	Edition :	SEVENTH
MECHANICAL :	2020 FLORIDA BUILDING CODE – MECHANICAL	Edition :	SEVENTH
PLUMBING :	2020 FLORIDA BUILDING CODE – PLUMBING	Edition :	SEVENTH
FUEL GAS :	2020 FLORIDA BUILDING CODE – FUEL GAS	Edition :	SEVENTH
ACCESSIBILITY :	2020 FLORIDA BUILDING CODE – ACCESSIBILITY	Edition :	SEVENTH
ENERGY :	2020 FLORIDA BUILDING CODE – ENERGY CONSERVATION	Edition :	SEVENTH
FIRE :	FLORIDA FIRE PREVENTION CODE (2020)	Edition :	SEVENTH

### CORNER GAZEBOS

CONSTRUCTION TYPE:	TYPE I–A
FIRE SPRINKLERS:	NO
OCCUPANCY:	CLASSIFICATION: BUSINESS GROUP – B
STORIES:	1
BUILDING HEIGHT:	25'-2" TO TOP OF RIDGES
PROJECT AREA:	ROOF AREA – 342 SQ. FT. (ONE GAZEBO) TOTAL AREA – 1,026 SQ. FT. (ALL 3 GAZEBOS)

**NOT FOR CONSTRUCTION**  
100% FINAL REVIEW DOCUMENTS

INDIAN RIVER COUNTY

INDIAN RIVER COUNTY COURTHOUSE  
VERO BEACH, FLORIDA  
METAL ROOFING  
REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC.  
3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779  
(407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: CAS PROJECT NUMBER: 20-062  
APPROVED BY: JPA PHASE: 100% FINAL REVIEW/DOCS  
ENGINEER: DATE: JANUARY 15, 2021

SYMBOLS, ABBREVIATIONS  
AND CODE INFORMATION

PLOT: N.T.S. SHEET **A1.1**

## SPECIFIC NOTES:

- PERFORMANCE REQUIREMENTS:** THE CONTRACTOR SHALL BASE THE BID UPON PROVIDING A COMPLETE ROOFING REPLACEMENT PROJECT AS REQUIRED TO PROVIDE ASSEMBLIES WHICH WILL REMAIN WATERTIGHT FOR A MINIMUM PERIOD OF 20 YEARS.
- EXISTING CONDITIONS VERIFICATION:** THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO, ROOF AREA SIZES, ROOF SLOPES, EXISTING ROOF MATERIALS AND DETAILS. THE CONTRACTOR SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS, PRIOR TO SUBMISSION OF THE BID.
- COMPLIANCE WITH INDUSTRY STANDARDS:** ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENT REQUIREMENTS, MANUFACTURERS RECOMMENDATIONS, AND OTHER RECOGNIZED INDUSTRY STANDARDS, INCLUDING BUT NOT LIMITED TO, "THE NRCA 'ROOFING MANUAL: MEMBRANE ROOF SYSTEMS 2019", "THE NRCA 'ROOFING MANUAL: ARCHITECTURAL METAL FLASHING AND CONDENSATION CONTROL AND AIR LEAKAGE CONTROL 2018, AND THE SMACNA 'ARCHITECTURAL SHEET METAL MANUAL 7TH EDITION".
- COMPLIANCE WITH FLORIDA BUILDING CODE 2020 (7TH ED) AND AUTHORITY HAVING JURISDICTION (AHJ):** ALL WORK TO MEET OR EXCEED REQUIREMENTS OF THE FLORIDA BUILDING CODE 2020 (7TH ED) AND AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT.
- TESTING:** CONDUCT APPROPRIATE TESTS FOR EACH NEWLY INSTALLED COMPONENT.
- TYPICAL NOTES, SECTIONS AND DETAILS:** NOTES, SECTIONS, AND DETAILS DESCRIBING REQUIRED WORK AT EACH COMPONENT ARE TYPICAL FOR ALL SIMILAR COMPONENTS AND THE NOTE, SECTION, OR DETAIL SHALL APPLY AS IF CALLED OUT SEPARATELY AT EACH LOCATION. THE DETAILS REFLECT A GENERAL DESIGN OF EACH DETAIL. THE CONTRACTOR SHALL MAKE ANY REQUIRED MODIFICATIONS TO THE GIVEN DETAILS NECESSARY TO MAKE THE DETAIL COMPATIBLE WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT FOR ALL MODIFIED DETAILS BEFORE THE DETAILS ARE CONSTRUCTED.
- PATCHING:** PATCH ALL EXISTING COMPONENTS THAT ARE AFFECTED BY THE WORK OF THIS PROJECT WHETHER OR NOT IDENTIFIED BY THE CONSTRUCTION DOCUMENTS TO BE PATCHED. PATCHING IS DEFINED AS: REPAIRING ALL EXISTING COMPONENTS INCLUDING BUT NOT LIMITED TO SUBSTRATE MATERIALS, STRUCTURAL COMPONENTS, AND FINISHES IN ACCORDANCE WITH INDUSTRY STANDARDS. ALL FINISHES SHALL BE PATCHED TO MATCH ALL CHARACTERISTICS OF EXISTING ADJACENT MATERIALS INCLUDING BUT NOT LIMITED TO MATERIAL TYPE, FINISH TEXTURE, AND COLOR OF FINISH.
- POSITIVE SLOPE:** INSTALL NEW SLOPE WHERE DESIGNATED AND WHERE REQUIRED TO ACHIEVE A POSITIVE ROOF SLOPE THAT DOES NOT POND WATER.
- MOCKUPS:** PREPARE IN-PLACE MOCKUPS OF EACH APPLICATION AND DETAIL. RECEIVE WRITTEN APPROVAL FROM ALL MATERIAL MANUFACTURERS FOR PRODUCTS INCLUDED IN THE MOCKUP, FROM THE ARCHITECT, AND FROM THE OWNER PRIOR TO FURTHER APPLICATION OR INSTALLATION.
- REFERENCE TO "ALL":** WHERE SCOPE OF WORK REFERS TO "ALL", THIS IS DEFINED AS ALL SIMILAR COMPONENTS WHETHER OR NOT THAT REFERENCED COMPONENT IS DEPICTED ON THE DRAWING.
- NEW COMPONENTS:** ALL DEPICTED COMPONENTS ON DRAWINGS ARE NEW UNLESS IDENTIFIED AS EXISTING.
- INTERIOR PROTECTION:** PRIOR TO DEMOLITION, INSTALL PROTECTION OVER INTERIOR SPACES AS REQUIRED TO PROTECT OCCUPANTS, BUILDING COMPONENTS, AND EQUIPMENT FROM WEATHER ELEMENTS AND CONSTRUCTION RELATED DEBRIS.
- WEATHERPROOF ENCLOSURE:** APPLY WEATHERPROOF ROOF COVERINGS OVER THE ROOF AREAS DESIGNATED FOR REPLACEMENT OR REPAIR AS REQUIRED TO PREVENT THE INTRUSION OF WEATHER ELEMENTS INTO THE BUILDING DURING THE CONSTRUCTION PROCESS.
- HOUSEKEEPING:** THOROUGHLY CLEAN ALL CONSTRUCTION RELATED DEBRIS FROM ALL INTERIOR SURFACES, EXTERIOR SURFACES, AND SITE SURFACES ON A DAILY BASIS. ALL CONSTRUCTION EQUIPMENT, DEBRIS, AND NEW MATERIAL STORED ON THE SITE SHALL BE SECURED TO PREVENT WIND DISPLACEMENT.
- SAFETY:** PROVIDE ALL NECESSARY MEASURES TO ENSURE SAFETY TO BUILDING OCCUPANTS DURING THE PERIODS WHEN THE BUILDING IS OCCUPIED. PREVENT ACCESS TO THE CONSTRUCTION AREAS AND STAGING AREAS BY SIGNS, FENCES, AND OTHER BARRIERS. INSTALL A TEMPORARY BARRIER OVER THE TOP OF ALL ENTRANCES FOR A DISTANCE OF 10 FEET BEYOND THE ENTRANCE AS REQUIRED TO PROTECT PEDESTRIANS FROM FALLING DEBRIS.
- MANUFACTURER'S AND PRODUCTS:** MANUFACTURER'S AND PRODUCTS LISTED ARE A BASIS OF DESIGN. FOR ANY OTHER MANUFACTURERS PRODUCTS, SUBMIT REQUEST FOR CONSIDERATION OF EACH COMPARABLE PRODUCT DURING THE BIDDING PHASE. ALL COMPARABLE PRODUCTS APPROVED WILL BE LISTED IN AN ADDENDUM.
- TRADES:** ALL WORK SHALL BE PERFORMED BY CONTRACTORS LICENSED IN THEIR TRADES AND AS REQUIRED BY THE BUILDING DEPARTMENT OFFICIALS. THESE TRADES INCLUDE BUT ARE NOT LIMITED TO ROOFING CONTRACTORS, GENERAL CONTRACTORS, ELECTRICAL CONTRACTORS, HVAC CONTRACTORS, PLUMBING CONTRACTORS, AND SEALANT CONTRACTORS.
- FINAL INSPECTION:** THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AFTER ALL WORK HAS BEEN COMPLETED. A FINAL INSPECTION SHALL BE PERFORMED JOINTLY BY THE ARCHITECT, COUNTY STAFF, AND BUILDING OFFICIAL, IN ACCORDANCE WITH FLORIDA BUILDING CODE 2020 (7TH ED) 1512.4.3.3.

## GENERAL NOTES:

- ALL DETAILS INDICATE MINIMUM INSTALLATION REQUIREMENTS. IF THE MANUFACTURER'S STANDARDS DETAILS ARE MORE STRINGENT, IN THE OPINION OF THE ARCHITECT, THEY SHALL GOVERN. IF THE DETAILS SHOWN ARE MORE STRINGENT THAN THE MANUFACTURER'S STANDARD DETAILS, IN THE OPINION OF THE ARCHITECT, THE DETAILS SHOWN SHALL GOVERN, REGARDLESS OF THE MANUFACTURER'S WILLINGNESS TO WARRANT / GUARANTY THE LESSER DETAIL. BY SUBMITTING A BID FOR THIS PROJECT, IT IS UNDERSTOOD THAT THE CONTRACTOR AND MANUFACTURER AGREE TO WARRANT / GUARANTY THE DETAILS SHOWN. THE ARCHITECT MAY, BUT IS NOT OBLIGATED TO, ACCEPT ANY PROPOSED CHANGES TO THE DETAILS SHOWN.
- THE CONTRACTOR IS TO PROVIDE ALL LABOR AND MATERIAL FOR A COMPLETE AND WATERTIGHT JOB WHICH IS FULLY WARRANTED / GUARANTEED BY THE MANUFACTURER AS PROVIDED FOR IN THE CONTRACT DOCUMENTS. ANY DETAILS OR WORK REQUIRED FOR A COMPLETE JOB, BUT NOT SHOWN OR SPECIFIED BY THE CONTRACT DOCUMENTS, SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. ANY ADDITIONAL LABOR AND MATERIAL REQUIRED TO MEET MANUFACTURER'S WARRANTY / GUARANTY REQUIREMENTS, BUT NOT INDICATED BY THE CONTRACT DOCUMENTS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- ALL REFINISHING REQUIREMENTS, SHALL INCLUDE THE FOLLOWING: REMOVE ALL RUST FROM METAL SURFACES AND APPLY COAT OF RUST INHIBITOR. REPLACE ALL METAL COMPONENTS WHICH ARE CORRODED THROUGH THE METAL. PRESSURE CLEAN ALL EXPOSED SURFACES. SECURE ALL LOOSE COMPONENTS WITH STAINLESS STEEL FASTENERS WHICH EXTEND INTO SOLID SUBSTRATE BELOW OR BEHIND COMPONENT BEING SECURED. CONCEAL FASTENER HEADS WITH MATERIAL WHICH MATCHES ADJACENT SURFACES. REPAIR ALL EXPOSED SURFACES TO MATCH EXISTING FINISHES.
- ALL COMPONENTS AND ASSEMBLIES SHALL MEET OR EXCEED UL STANDARDS FOR A CLASS A FIRE RATING.

## GENERAL SCOPE OF WORK:

- SEE SHEET G1.3 FOR DESCRIPTION OF WORK.

## BUILDING PROTECTION NOTES:

- THE BUILDING MAY BE FULLY OR PARTIALLY OCCUPIED AND WILL REMAIN FUNCTIONAL THROUGHOUT THE CONSTRUCTION PERIOD. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTENTS AND OCCUPANTS. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND FOR THE SAFETY OF ALL PERSONS AT THE PROJECT SITE.
- THE BUILDING SHALL BE WATERTIGHT AT THE END OF EACH DAYS CONSTRUCTION AND WHEN INCLEMENT WEATHER THREATENS.
- CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING CONSTRUCTION TO REMAIN, INCLUDING THE BUILDING, ADJACENT ROOFS, WALLS, LANDSCAPE/VEGETATION, GROUNDS, EXTERIOR SURFACES, THE INTERIOR OF THE BUILDING AND ALL PROMENADE CONCRETE WITHIN THE PROJECT BOUNDARIES. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO PAINT, WATER, DUST, DEBRIS AND PHYSICAL DAMAGE. ALL SURFACES SHALL BE RESTORED TO THEIR PRE-DAMAGE CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
- ANY SURFACES STAINED, MARKED, MARRED, OR DAMAGED BY THE CONTRACTOR SHALL BE RETURNED TO THE ORIGINAL CONDITION AND TO MATCH ADJACENT SURFACES.
- LAYDOWN/STORAGE AREA IS LIMITED AND SHALL BE AS APPROVED BY THE OWNER.
- PRIOR TO PERFORMING WORK, CONTRACTOR SHALL INSPECT WORK SITE AND EXISTING CONSTRUCTION FOR POTENTIAL SAFETY HAZARDS. PROVIDE FOR THE SAFETY AND PROTECTION OF WORKERS AND OCCUPANTS THROUGHOUT COURSE OF WORK. COMPLY WITH OSHA REQUIREMENTS.
- BUILDING ACCESS IS RESTRICTED AND ALLOWED ONLY AS REQUIRED TO ACCOMPLISH CONTRACT WORK. COORDINATE ANY REQUIRED ACCESS WITH THE OWNER.
- SITE SHALL BE CLEANED AND SECURED ON A DAILY BASIS AT THE END OF EACH WORK SHIFT.

## EXTERIOR RESTORATION NOTES:

- FOR PURPOSES OF THIS PROJECT, REMOVE SHALL MEAN REMOVE AND DISPOSE OF IN AN APPROVED AND LEGAL MANNER.
- CONTRACTOR SHALL VERIFY THE TOTAL NUMBER OF DETAIL CONDITIONS IN THE FIELD AND PERFORM NEW WORK IN ACCORDANCE WITH THE DETAIL REFERENCED OR THOSE WHICH ARE SIMILAR. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD.
- DAMAGED OR DETERIORATED ROOF / WALL OR OTHER SUBSTRATE UNCOVERED DURING DEMOLITION SHALL BE DOCUMENTED BY THE CONTRACTOR, REPORTED TO THE PROJECT MANAGER IN WRITING.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS IN THE FIELD, INCLUDING EXISTING MATERIALS AND METHODS OF INSTALLATION BEFORE THE START OF WORK. ANY DISCREPANCIES BETWEEN THE INFORMATION PROVIDED BY THE CONTRACT DOCUMENTS AND CONDITIONS ENCOUNTERED BY THE CONTRACTOR BEFORE THE START OF WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER AND ARCHITECT IN WRITING. THE CONTRACTOR SHALL NOT BE ENTITLED TO COMPENSATION FOR ANY ADDITIONAL LABOR OR MATERIALS DUE TO DIFFERING EXISTING CONDITIONS WHICH ARE NOT BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL REMOVE ALL EXISTING EXTERIOR CONDUIT, PIPING, LIGHTING FIXTURES, LIGHTNING PROTECTION SYSTEMS AND ANY OTHER ITEMS WHICH INTERFERE WITH THE INSTALLATION OF THE NEW EXTERIOR BUILDING ENVELOPE COMPONENTS AND OR RELATED WORK. ALL SUCH EQUIPMENT AND ITEMS SHALL BE TEMPORARILY RE-ROUTED AS NECESSARY IF IT IS REQUIRED TO STAY IN SERVICE. ANY ITEMS NOT REQUIRED TO STAY IN SERVICE SHALL BE PROPERLY STORED BY THE CONTRACTOR AND REINSTALLED AT THE COMPLETION OF THE WORK. ALL WORK SHALL BE PERFORMED BY QUALIFIED, LICENSED CRAFTSMEN IN ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AT NO ADDITIONAL COST TO THE OWNER. ANY EXISTING WORK WHICH DOES NOT CONFORM TO APPLICABLE CURRENT CODES SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE REMOVAL.

### NOT FOR CONSTRUCTION

100% FINAL REVIEW DOCUMENTS

INDIAN RIVER COUNTY

INDIAN RIVER COUNTY COURTHOUSE  
VERO BEACH, FLORIDA  
METAL ROOFING  
REPLACEMENT PROJECT

  
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3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779  
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#### REVISIONS

NUMBER	TYPE	DATE
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_____	_____	_____

DRAWN BY: ...CAS	PROJECT NUMBER: ...20-062
APPROVED BY: ...JPA	PHASE: 100% FINAL REVIEW DOCS
ENGINEER: _____	DATE: ...JANUARY 15, 2021

## GENERAL NOTES

PLOT: N.T.S. SHEET

A1.2



# SCOPE OF WORK:

## THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

### 1.0 GENERAL:

- 1.1 ENGINEERING:** CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE FASTENER SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.
- 1.2 SUBSTRATE PREPARATION:** PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY.
- 1.3 WARRANTY:** THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURER'S OF THE ROOFING ASSEMBLY AND SHALL RECEIVE A 20 YEAR NDL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NDL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.

### 2.0 STANDING SEAM METAL ROOF PANEL ASSEMBLY:

- 2.1 DEMOLITION:** REMOVE THE EXISTING STANDING SEAM METAL ROOF PANEL COMPONENTS FROM THREE ALL CORNER STANDING SEAM METAL ROOFING ASSEMBLIES. ROOFING ASSEMBLIES INCLUDE BUT ARE NOT LIMITED TO METAL ROOF PANELS, CLIPS, FASTENERS, FLASHINGS, GUTTERS AND UNDERLAYMENTS. REMOVE THE EXISTING PVC RAIN LEADERS FROM WITHIN CEILING CAVITY AND CAP EXISTING RAIN LEADERS.
- 2.2 ROOF DECK PREPARATION:** REPLACE ANY DETERIORATED PLYWOOD SHEATHING OR WOOD BLOCKING OBSERVED DURING THE EXISTING ROOF SYSTEM REMOVAL. INCLUDE 320 SQUARE FEET OF 5/8 INCH EXTERIOR GRADE PLYWOOD REPLACEMENT IN BASE BID. INCLUDE 100 LINEAR FEET OF PRESSURE TREATED 2"X8" WOOD BLOCKING CUT AND SIZED AS REQUIRED IN THE BASE BID ALSO, INCLUDE A UNIT COST PER SQUARE FOOT FOR PLYWOOD REPLACEMENT AND A UNIT COST PER BOARD FOOT FOR WOOD BLOCKING REPLACEMENT IN THE BID TO ADJUST THE CONTRACT AMOUNT FOR ACTUAL FIELD CONDITIONS. SEE SPECIFICATION SECTION 06100.
- 2.3 ROOF DECK RESECUREMENT:** RE-SECURE ALL EXISTING PLYWOOD DECK TO THE EXISTING METAL TRUSSES WITH THE FOLLOWING FASTENERS.
- 1). CORNER ZONE: #10 SHEET METAL SCREW AT 4" OC EACH STEEL TRUSS.
  - 2). EDGE ZONE: #10 SHEET METAL SCREW AT 6" OC EACH STEEL TRUSS.
  - 3). FIELD ZONE: #10 SHEET METAL SCREW AT 6" OC EACH STEEL TRUSS.
- 2.4 UNDERLAYMENT:** PREPARE ALL ROOF SURFACES TO RECEIVE THE NEW UNDERLAYMENT AS REQUIRED BY THE UNDERLAYMENT MANUFACTURER. APPLY PRIMER OVER ALL EXISTING AND PROPERLY PREPARED UNDERLAYMENT SURFACES. APPLY ONE PLY OF HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT OVER ALL SURFACES AND OVER DESIGNATED ADJACENT WALL SURFACES. APPLY AN ADDITIONAL UNDERLAYMENT PLY OVER ALL HIPS AND OVER ALL PRIMED METAL FLASHING FLANGES.
- 2.5 METAL ROOF PANELS:** INSTALL A METAL STANDING SEAM ROOF PANEL WITH STIFFENING RIBS USING STAINLESS STEEL CONCEALED CLIPS FABRICATED WITH THERMALLY MOVABLE COMPONENTS. SECURE CLIPS THROUGH THE ROOFING ASSEMBLY AND INTO THE EXISTING STEEL DECK. SEE SPECIFICATION SECTION 074110.
- 2.6 METAL FLASHINGS:** INSTALL METAL FLASHINGS WITH FULLY WELDED NON-MOVING SEAMS AND SECURE WITH STAINLESS STEEL FASTENERS AS REQUIRED TO COMPLY WITH THE DESIGNATED WIND PRESSURES.
- 2.7 INTERNAL GUTTERS AND DOWNSPOUTS:** INSTALL NEW 16 GAUGE BENT METAL PLATES AND PLYWOOD SHEATHING TO CONCEAL EXISTING INTERNAL GUTTER SUBSTRATE. FABRICATE AND INSTALL NEW SLOPED GUTTERS AND DOWNSPOUTS AT THE EXISTING EAVES. REMOVE AND CAP EXISTING PVC DOWNSPOUTS. MATCH THE EXISTING DOWNSPOUT LOCATIONS. INSTALL SLOPED SEAMLESS ALUMINUM GUTTERS. INSTALL ROUND ALUMINUM TUBE DOWNSPOUTS AND TIE DISCHARGE END INTO EXISTING STORM LINES WITH A PVC OR ALUMINUM TRANSITION FLASHING.

### 3.0 EXTERIOR CEILINGS AT CORNER GAZEBOS:

- 3.1 PLASTER CEILINGS REPLACEMENT:** REMOVE ALL EXISTING INTERIOR PLASTER CEILINGS FROM THE EXISTING STEEL EXTERIOR CEILING FRAMING. REMOVE ALL CORROSION DEPOSITS FROM EXISTING STEEL FRAMING AND COAT PREVIOUS CORRODED STEEL WITH PPG AMERLOK 2 EPOXY COATING. AT DETERIORATED OR DAMAGED STEEL FRAMING, REMOVE AND REPLACE WITH NEW STEEL FRAMING COMPONENTS SECURED WITH STAINLESS STEEL FASTENERS. INSTALL NEW CEMENTITIOUS SHEATHING TO EXISTING AND REPAIRED STEEL FRAMING. INSTALL NEW STO ESSENCE DPR EXTERIOR CEILING FINISH FINISH SYSTEM WITH COLOR TO MATCH ADJACENT EXTERIOR CEILINGS. INSTALL NEW PERIMETER VENTS TO MATCH ADJACENT EXTERIOR CEILINGS. SEE SPECIFICATION SECTION 092513.)

### 4.0 INTERIOR CEILING ELECTRICAL LIGHTS:

- 4.1 EXISTING EXTERIOR CAN LIGHTS:** TEMPORARILY REMOVE ALL EXISTING LIGHT FIXTURES FROM THE EXTERIOR CEILINGS AT ALL GAZEBOS AND REINSTALL ONCE EXISTING CEILING COMPONENTS ARE COMPLETED. ALL ELECTRICAL WORK TO BE COMPLETED BY A STATE OF FLORIDA LICENSED ELECTRICIAN.

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INDIAN RIVER COUNTY

INDIAN RIVER COUNTY COURTHOUSE

VERO BEACH, FLORIDA

METAL ROOFING  
REPLACEMENT PROJECT



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#### REVISIONS

NUMBER	TYPE	DATE

DRAWN BY: CAS PROJECT NUMBER: 20-062  
APPROVED BY: JBA PHASE: 100% FINAL REVIEW DOCS  
ENGINEER: DATE: JANUARY 15, 2021

SCOPE OF WORK

PLOT: N.T.S. SHEET

A1.3

**LEGEND**



**CONSTRUCTION SITE NOTES:**

- 1. CONSTRUCTION LIMITS:** LIMITS ARE WITHIN 10 FEET MAXIMUM OF BUILDINGS EXCEPT WHERE OTHERWISE INDICATED.
- 2. ACCESSIBLE PATH:** THE ACCESSIBLE PATH DESIGNATED MUST BE LEFT UNIMPEDED THROUGHOUT THE CONSTRUCTION. PROVIDE BARRIERS BETWEEN THE CONSTRUCTION AND THE ACCESSIBLE PATH AS NECESSARY TO PROVIDE SAFE ACCESS.

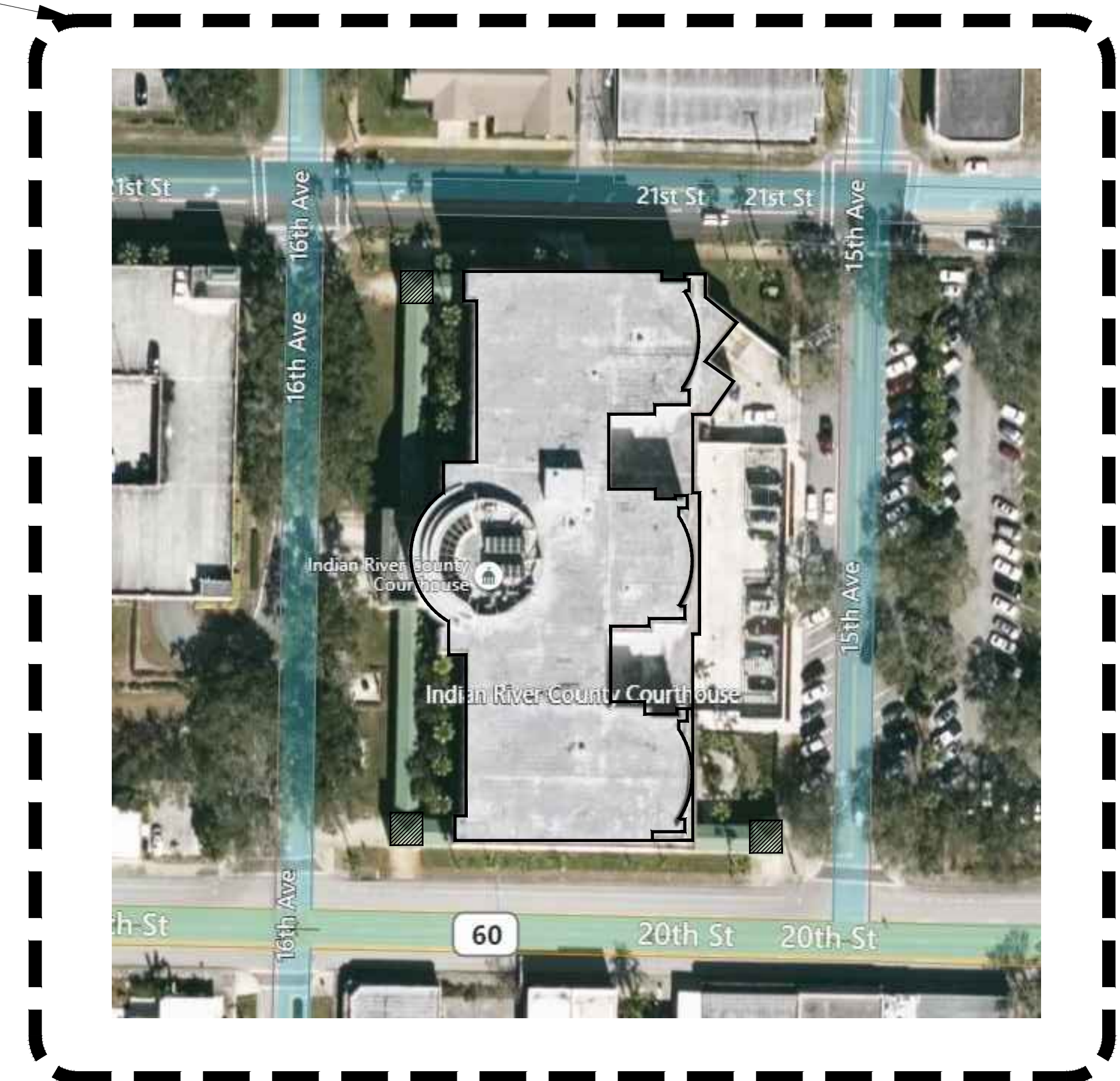
**SPECIFIC IRC COURTHOUSE - CONTRACTOR SITE REQUIREMENTS:**

- 1.** CONTRACTOR MUST SUCCESSFULLY PASS A BACKGROUND CHECK PRIOR TO AUTHORIZATION TO WORK ON THE PREMISES. BACKGROUND MUST REVEAL NO ACTIVE WARRANTS TO BE OUT ON BOND. CRIMINAL HISTORY WILL BE EVALUATED ON A CASE BY CASE BASIS.
- 2.** CONTRACTOR ONCE APPROVED, WILL BE ISSUED A SITE BADGE AND HE OR SHE MUST CHECK IN WITH THE SITE SUPERVISOR OR DESIGNEE AT THE BEGINNING AND END OF EACH WORKDAY.
- 3.** CONTRACTOR WILL COMPLETE A TOOL INVENTORY AT THE BEGINNING AND END OF EACH WORKDAY. SECURITY DEPUTY ASSIGNED TO THE DETAIL FOR THAT DAY WILL VERIFY TOOL INVENTORY. APPROXIMATELY 30 MINUTES DAILY TO CONDUCT TOOL INVENTORY.
- 4.** CONTRACTOR WILL HAVE NO COMMUNICATION WITH INCARCERATED PERSONS UNLESS APPROVED BY SECURITY DEPUTY. ANY VIOLATION OF THIS RULE WILL BE GROUNDS FOR HAVING SITE BADGE REVOKED.
- 5.** ALL WORK WILL BE COMPLETED DURING NORMAL BUSINESS HOURS 8AM - 5 PM. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO SITE SUPERVISOR OR DESIGNEE WHEN PROJECT WORK WILL INTERFERE WITH FACILITY OPERATIONS.
- 6.** CONTRACTOR WILL PROVIDE A PROJECT SUPERVISOR TO BE PRESENT ANYTIME WORK IS BEING COMPLETED.
- 7.** INDIAN RIVER COUNTY SHERIFFS' OFFICE WILL HAVE A SUPERVISOR AVAILABLE ANYTIME PROJECT WORK IS BEING PERFORMED.

SEE ROOF PLANS ON SHEETS A2.1 AND A2.2



**1** LOCATION PLAN  
SCALE: N.T.S.



**2** SITE PLAN  
SCALE: N.T.S.

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INDIAN RIVER COUNTY

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REPLACEMENT PROJECT




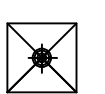
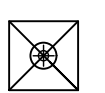


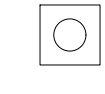
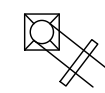
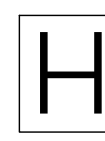
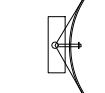


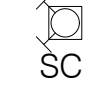

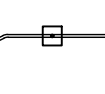
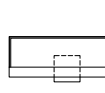

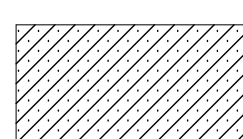
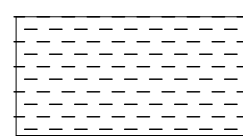
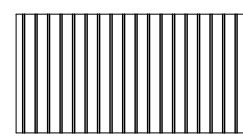
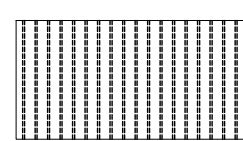

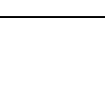
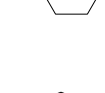
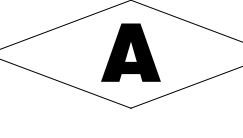
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REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: CAS PROJECT NUMBER: 20-062  
APPROVED BY: JPA PHASE: 100% FINAL REVIEW, DOCS  
ENGINEER: DATE: JANUARY 15, 2021

LOCATION AND SITE PLAN

**LEGEND:**

-  PARAPET WALL
-  EXISTING OVERFLOW SCUPPER (NOT IN CONTRACT.)
-  EXPANSION JOINT (NOT IN CONTRACT.)
-  ACTIVE ROOF DRAIN (NOT IN CONTRACT.)
-  OVERFLOW ROOF DRAIN (NOT IN CONTRACT.)
-  PLUMBING VENT (NOT IN CONTRACT.)
-  ROOF MOUNTED EQUIPMENT (NOT IN CONTRACT.)
-  STEEL SUPPORTS PIPES FOR MECH. (NOT IN CONTRACT.)
-  DUCT WORK PENETRATION (NOT IN CONTRACT.)
-  ROOF HATCH DOOR (NOT IN CONTRACT.)
-  ROOF TOP ANTENNA (NOT IN CONTRACT.)
-  ROOF DECK VENTS (NOT IN CONTRACT.)
-  ABANDONED ROOF DECK VENT (NOT IN CONTRACT.)
-  SIAMESE CONNECTION WITH PITCH PANS (NOT IN CONTRACT.)
-  ROOF PITCH PANS WITH PIPE PENETRATIONS (NOT IN CONTRACT.)
-  SKYLIGHT GUARDRAILS OVER PITCH PANS (NOT IN CONTRACT.)
-  EXISTING ROOF LIGHT FIXTURES (NOT IN CONTRACT.)
-  EXISTING ROOF ASSEMBLY - TYPE A (NOT IN CONTRACT)
-  EXISTING ROOF ASSEMBLY - TYPE B (NOT IN CONTRACT)
-  ROOF ASSEMBLY - TYPE C (NOT IN CONTRACT)
-  METAL ROOFS - TYPE D (NOT IN CONTRACT)
-  GAZEBO METAL ROOFS - TYPE 1 (SEE DEMOLITION NOTE 1.)
-  EXISTING ROOF TRAFFIC PADS
-  EXISTING SLOPE
-  DEMOLITION NOTE DESIGNATION
-  ROOF AREA DESIGNATION
- N.I.C.** NOT IN CONTRACT

**DEMOLITION NOTES:**

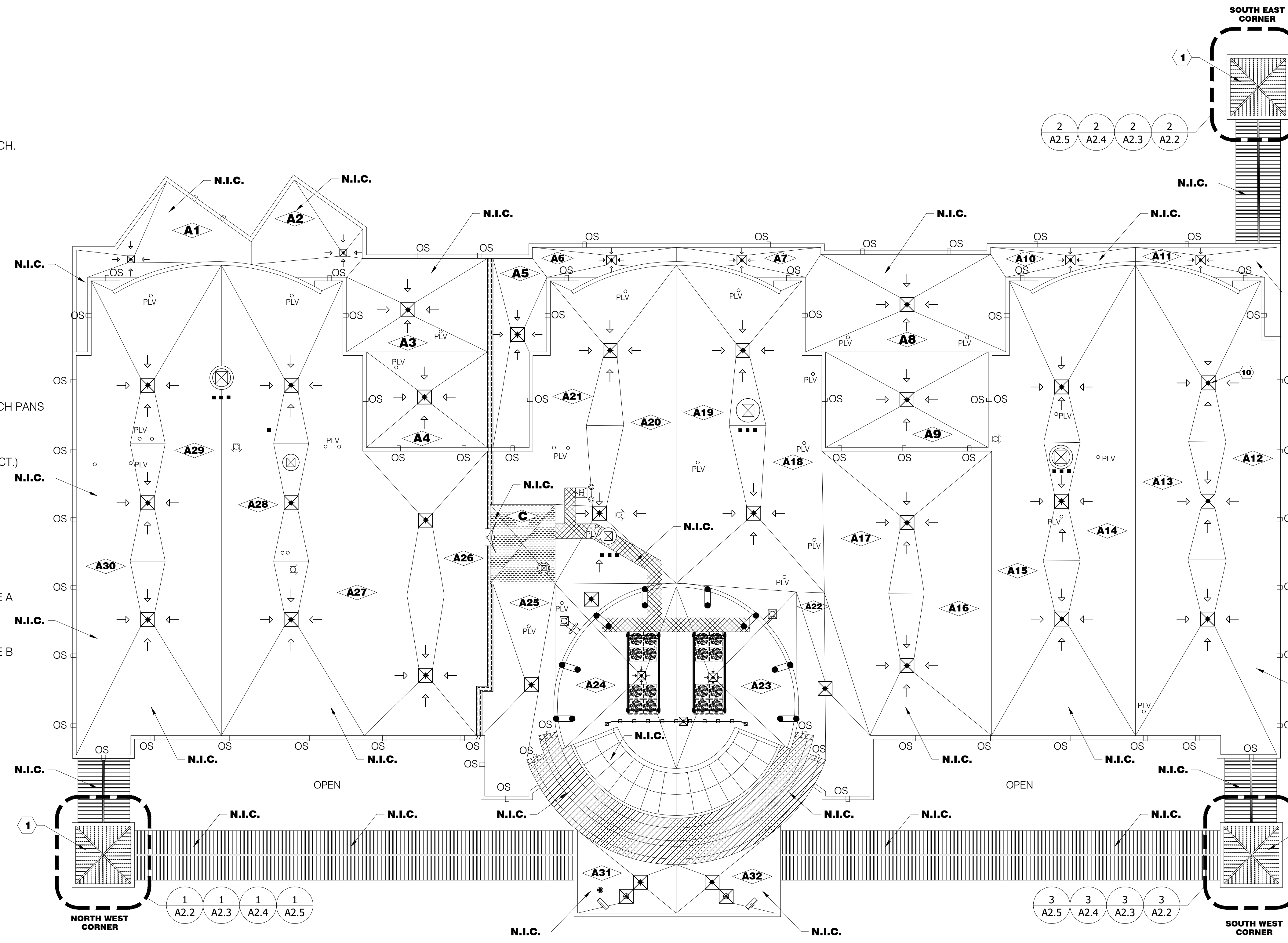
- 1. **EXISTING ROOF ASSEMBLY - TYPE D:** REMOVE EXISTING METAL ROOFING ASSEMBLY OF ALL THE EXISTING CORNER GAZEBOS TO THE TOP OF THE EXISTING PLYWOOD DECKS. (SEE SCOPE OF WORK ITEM 2.1.)

EXISTING ROOFING ASSEMBLY - TYPE A

	ROOF COMPONENTS
ROOF COVER	STANDING SEAM ROOF PANELS
BASE INSULATION	NONE
STRUCTURAL DECK	EXTERIOR GRADE FRT PLYWOOD
ROOF FLASHINGS	STAINLESS STEEL
DRAINAGE	INTERNAL GUTTERS AND DOWNSPOUTS

**SCOPE OF WORK:**

- THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:**
- 1.0 **GENERAL:**
  - 1.1 **ENGINEERING:** CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE FASTENER SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.
  - 1.2 **SUBSTRATE PREPARATION:** PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURERS RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY.
  - 1.3 **WARRANTY:** THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURERS OF THE ROOFING ASSEMBLY AND SHALL RECEIVE A 20 YEAR NOL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NOL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.
  - 2.0 **STANDING SEAM METAL ROOF PANEL ASSEMBLY:**
  - 2.1 **DEMOLITION:** REMOVE THE EXISTING STANDING SEAM METAL ROOF PANEL COMPONENTS FROM THREE ALL CORNER STANDING SEAM METAL ROOFING ASSEMBLIES. ROOFING ASSEMBLIES INCLUDE BUT ARE NOT LIMITED TO METAL ROOF PANELS, CLIPS, FASTENERS, FLASHINGS, GUTTERS AND UNDERLAYMENTS. REMOVE THE EXISTING PVC RAIN LEADERS FROM WITHIN CEILING CAVITY AND CAP EXISTING RAIN LEADERS.
  - 2.2 **ROOF DECK PREPARATION:** REPLACE ANY DETERIORATED PLYWOOD SHEATHING OR WOOD BLOCKING OBSERVED DURING THE EXISTING ROOF SYSTEM REMOVAL. INCLUDE 200 SQUARE FEET OF 3/8 INCH EXTERIOR GRADE PLYWOOD REPLACEMENT IN BASE BID. INCLUDE 100 LINEAR FEET OF PRESSURE TREATED 2X8" WOOD BLOCKING CUT AND SIZED AS REQUIRED IN THE BASE BID. ALSO, INCLUDE A UNIT COST PER SQUARE FOOT FOR PLYWOOD REPLACEMENT AND A UNIT COST PER BOARD FOOT FOR WOOD BLOCKING REPLACEMENT IN THE BID TO ADJUST THE CONTRACT AMOUNT FOR ACTUAL FIELD CONDITIONS. SEE SPECIFICATION SECTION 06100.
  - 2.3 **ROOF DECK RESECUREMENT:** RE-SECURE ALL EXISTING PLYWOOD DECK TO THE EXISTING METAL TRUSSES WITH THE FOLLOWING FASTENERS:
    - 1. CORNER ZONE: #10 SHEET METAL SCREW AT 4' OC EACH STEEL TRUSS.
    - 2. EDGE ZONE: #10 SHEET METAL SCREW AT 6' OC EACH STEEL TRUSS.
    - 3. FIELD ZONE: #10 SHEET METAL SCREW AT 6' OC EACH STEEL TRUSS.
  - 2.4 **UNDERLAYMENT:** PREPARE ALL ROOF SURFACES TO RECEIVE THE NEW UNDERLAYMENT AS REQUIRED BY THE UNDERLAYMENT MANUFACTURER. APPLY PRIMER OVER ALL EXISTING AND PROPERLY PREPARED UNDERLAYMENT SURFACES. APPLY ONE PLY OF HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT OVER ALL SURFACES AND OVER DESIGNATED ADJACENT WALL SURFACES. APPLY AN ADDITIONAL UNDERLAYMENT PLY OVER ALL HIPS AND OVER ALL PRIMED METAL FLASHING FLANGES.
  - 2.5 **METAL ROOF PANELS:** INSTALL A METAL STANDING SEAM ROOF PANEL WITH STIFFENING RIBS USING STAINLESS STEEL CONCEALED CLIPS FABRICATED WITH THERMALLY MOVABLE COMPONENTS. SECURE CLIPS THROUGH THE ROOFING ASSEMBLY AND INTO THE EXISTING STEEL DECK. SEE SPECIFICATION SECTION 07410.
  - 2.6 **METAL FLASHINGS:** INSTALL METAL FLASHINGS WITH PLY WELDED NON-MOVING SEAMS AND SECURE WITH STAINLESS STEEL FASTENERS AS REQUIRED TO COMPLY WITH THE DESIGNATED WIND PRESSURES.
  - 2.7 **INTERNAL GUTTERS AND DOWNSPOUTS:** INSTALL NEW 18 GAUGE BENT METAL PLATES AND PLYWOOD SHEATHING TO CONCEAL EXISTING INTERNAL GUTTER SUBSTRATE. FABRICATE AND INSTALL NEW SLOPED GUTTERS AND DOWNSPOUTS AT THE EXISTING EAVES. REMOVE AND CAP EXISTING PVC DOWNSPOUTS. MATCH THE EXISTING DOWNSPOUT LOCATIONS. INSTALL SLOPED SEAMLESS ALUMINUM GUTTERS. INSTALL ROUND ALUMINUM TUBE DOWNSPOUTS AND THE DISCHARGE END INTO EXISTING STORM LINES WITH A PVC OR ALUMINUM TRANSITION FLASHING.
  - 3.0 **EXTERIOR CEILINGS AT CORNER GAZEBOS:**
  - 3.1 **PLASTER CEILINGS REPLACEMENT:** REMOVE ALL EXISTING INTERIOR PLASTER CEILINGS FROM THE EXISTING STEEL EXTERIOR CEILING FRAMING. REMOVE ALL CORROSION DEPOSITS FROM EXISTING STEEL FRAMING AND COAT PREVIOUS CORRODED STEEL WITH PPG ANERLOK 2 EPOXY COATING AT DETERIORATED OR DAMAGED STEEL FRAMING. REMOVE AND REPLACE WITH NEW STEEL FRAMING COMPONENTS SECURED WITH STAINLESS STEEL FASTENERS. INSTALL NEW CEMENTITIOUS SHEATHING TO EXISTING AND REPAIRED STEEL FRAMING. INSTALL NEW STO ESSENCE DPR EXTERIOR CEILING FINISH SYSTEM WITH COLOR TO MATCH ADJACENT EXTERIOR CEILINGS. INSTALL NEW PERIMETER VENTS TO MATCH ADJACENT EXTERIOR CEILINGS. SEE SPECIFICATION SECTION 09213.
  - 4.0 **INTERIOR CEILING ELECTRICAL LIGHTS:**
  - 4.1 **EXISTING EXTERIOR CAN LIGHTS:** TEMPORARILY REMOVE ALL EXISTING LIGHT FIXTURES FROM THE EXTERIOR CEILINGS AT ALL GAZEBOS AND REINSTALL ONCE EXISTING CEILING COMPONENTS ARE COMPLETED. ALL ELECTRICAL WORK TO BE COMPLETED BY A STATE OF FLORIDA LICENSED ELECTRICIAN.



OVERALL EXISTING AND DEMOLITION ROOF PLAN  
SCALE: 1/16" = 1'-0"

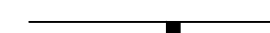

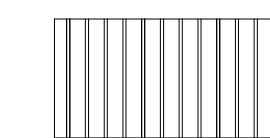
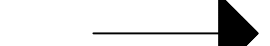

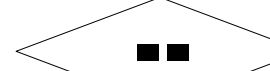
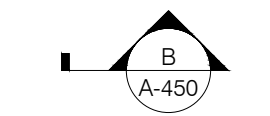
**NOT FOR CONSTRUCTION**  
100% FINAL REVIEW DOCUMENTS  
INDIAN RIVER COUNTY  
INDIAN RIVER COUNTY COURTHOUSE  
VERO BEACH, FLORIDA  
METAL ROOFING  
REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC.  
3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779  
(407) 333-1977 • FAX: (407) 333-4886 • E-MAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: CAS PROJECT NUMBER: 20-092  
APPROVED BY: JPA PHASE: 100% FINAL REVIEW DOCS  
ENGINEER: DATE: JANUARY 15, 2021

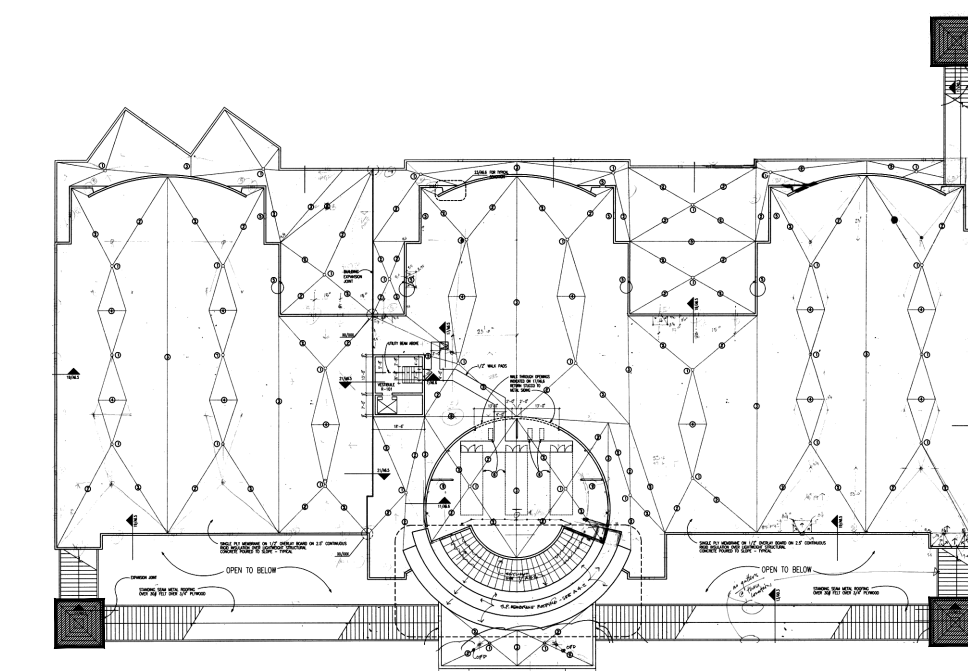
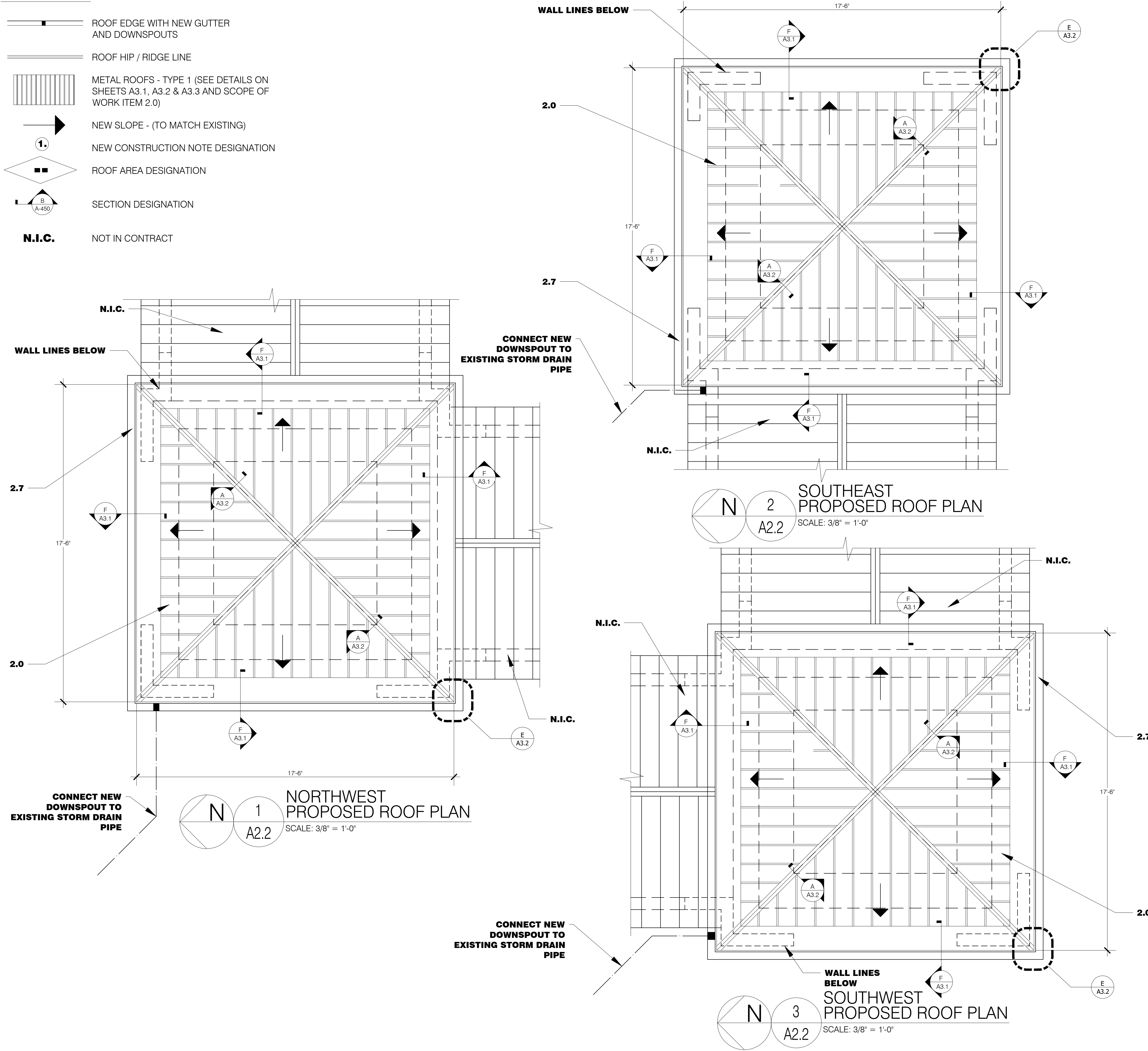
**LEGEND:**

-  ROOF EDGE WITH NEW GUTTER AND DOWNSPOUTS
-  ROOF HIP / RIDGE LINE
-  METAL ROOFS - TYPE 1 (SEE DETAILS ON SHEETS A3.1, A3.2 & A3.3 AND SCOPE OF WORK ITEM 2.0)
-  NEW SLOPE - (TO MATCH EXISTING)
-  NEW CONSTRUCTION NOTE DESIGNATION
-  ROOF AREA DESIGNATION
-  SECTION DESIGNATION
- N.I.C.** NOT IN CONTRACT

**SCOPE OF WORK:**

THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

- 1.0 GENERAL:**
- 1.1 ENGINEERING:** CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE FASTENER SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.
- 1.2 SUBSTRATE PREPARATION:** PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURERS RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY.
- 1.3 WARRANTY:** THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURERS OF THE ROOFING ASSEMBLY AND SHALL RECEIVE A 20 YEAR NDL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NDL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.
- 2.0 STANDING SEAM METAL ROOF PANEL ASSEMBLY:**
- 2.1 DEMOLITION:** REMOVE THE EXISTING STANDING SEAM METAL ROOF PANEL COMPONENTS FROM THREE ALL CORNER STANDING SEAM METAL ROOFING ASSEMBLIES. ROOFING ASSEMBLIES INCLUDE BUT ARE NOT LIMITED TO METAL ROOF PANELS, CLIPS, FASTENERS, FLASHINGS, GUTTERS AND UNDERLAYMENTS. REMOVE THE EXISTING PVC RAIN LEADERS FROM WITHIN CEILING CAVITY AND CAP EXISTING RAIN LEADERS.
- 2.2 ROOF DECK PREPARATION:** REPLACE ANY DETERIORATED PLYWOOD SHEATHING OR WOOD BLOCKING OBSERVED DURING THE EXISTING ROOF SYSTEM REMOVAL. INCLUDE 320 SQUARE FEET OF 5/8 INCH EXTERIOR GRADE PLYWOOD REPLACEMENT IN BASE BID. INCLUDE 100 LINEAR FEET OF PRESSURE TREATED 2X8" WOOD BLOCKING CUT AND SIZED AS REQUIRED IN THE BASE BID. ALSO, INCLUDE A UNIT COST PER SQUARE FOOT FOR PLYWOOD REPLACEMENT AND A UNIT COST PER BOARD FOOT FOR WOOD BLOCKING REPLACEMENT IN THE BID TO ADJUST THE CONTRACT AMOUNT FOR ACTUAL FIELD CONDITIONS. SEE SPECIFICATION SECTION 06100.
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- 2.5 METAL ROOF PANELS:** INSTALL A METAL STANDING SEAM ROOF PANEL WITH STIFFENING RIBS USING STAINLESS STEEL CONCEALED CLIPS FABRICATED WITH THERMALLY MOVABLE COMPONENTS. SECURE CLIPS THROUGH THE ROOFING ASSEMBLY AND INTO THE EXISTING STEEL DECK. SEE SPECIFICATION SECTION 074110.
- 2.6 METAL FLASHINGS:** INSTALL METAL FLASHINGS WITH FULLY WELDED NON-MOVING SEAMS AND SECURE WITH STAINLESS STEEL FASTENERS AS REQUIRED TO COMPLY WITH THE DESIGNATED WIND PRESSURES.
- 2.7 INTERNAL GUTTERS AND DOWNSPOUTS:** INSTALL NEW 16 GAUGE BENT METAL PLATES AND PLYWOOD SHEATHING TO CONCEAL EXISTING INTERNAL GUTTER SUBSTRATE. FABRICATE AND INSTALL NEW SLOPED GUTTERS AND DOWNSPOUTS AT THE EXISTING EAVES. REMOVE AND CAP EXISTING PVC DOWNSPOUTS. MATCH THE EXISTING DOWNSPOUT LOCATIONS. INSTALL SLOPED SEAMLESS ALUMINUM GUTTERS. INSTALL ROUND ALUMINUM TUBE DOWNSPOUTS AND TIE DISCHARGE END INTO EXISTING STORM LINES WITH A PVC OR ALUMINUM TRANSITION FLASHING.
- 3.0 EXTERIOR CEILINGS AT CORNER GAZEBOS:**
- 3.1 PLASTER CEILINGS REPLACEMENT:** REMOVE ALL EXISTING INTERIOR PLASTER CEILINGS FROM THE EXISTING STEEL EXTERIOR CEILING FRAMING. REMOVE ALL CORROSION DEPOSITS FROM EXISTING STEEL FRAMING AND COAT PREVIOUS CORRODED STEEL WITH PPG AMERLOK 2 EPOXY COATING. AT DETERIORATED OR DAMAGED STEEL FRAMING, REMOVE AND REPLACE WITH NEW STEEL FRAMING COMPONENTS SECURED WITH STAINLESS STEEL FASTENERS. INSTALL NEW CEMENTITIOUS SHEATHING TO EXISTING AND REPAIRED STEEL FRAMING. INSTALL NEW STO ESSENCE DPR EXTERIOR CEILING FINISH SYSTEM WITH COLOR TO MATCH ADJACENT EXTERIOR CEILINGS. INSTALL NEW PERIMETER VENTS TO MATCH ADJACENT EXTERIOR CEILINGS. SEE SPECIFICATION SECTION 092513.)
- 4.0 INTERIOR CEILING ELECTRICAL LIGHTS:**
- 4.1 EXISTING EXTERIOR CAN LIGHTS:** TEMPORARILY REMOVE ALL EXISTING LIGHT FIXTURES FROM THE EXTERIOR CEILINGS AT ALL GAZEBOS AND REINSTALL ONCE EXISTING CEILING COMPONENTS ARE COMPLETED. ALL ELECTRICAL WORK TO BE COMPLETED BY A STATE OF FLORIDA LICENSED ELECTRICIAN.



**NOT FOR CONSTRUCTION**  
100% FINAL REVIEW DOCUMENTS

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INDIAN RIVER COUNTY  
INDIAN RIVER COUNTY COURTHOUSE  
VERO BEACH, FLORIDA  
METAL ROOFING  
REPLACEMENT PROJECT

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JAY AMMON ARCHITECT, INC.  
3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779  
(407) 333-1977 • FAX: (407) 333-4686 • E-MAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

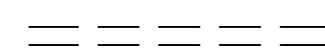

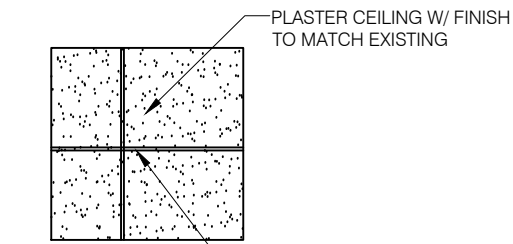
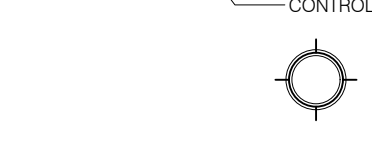
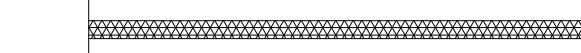
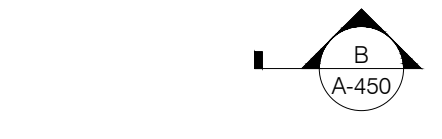
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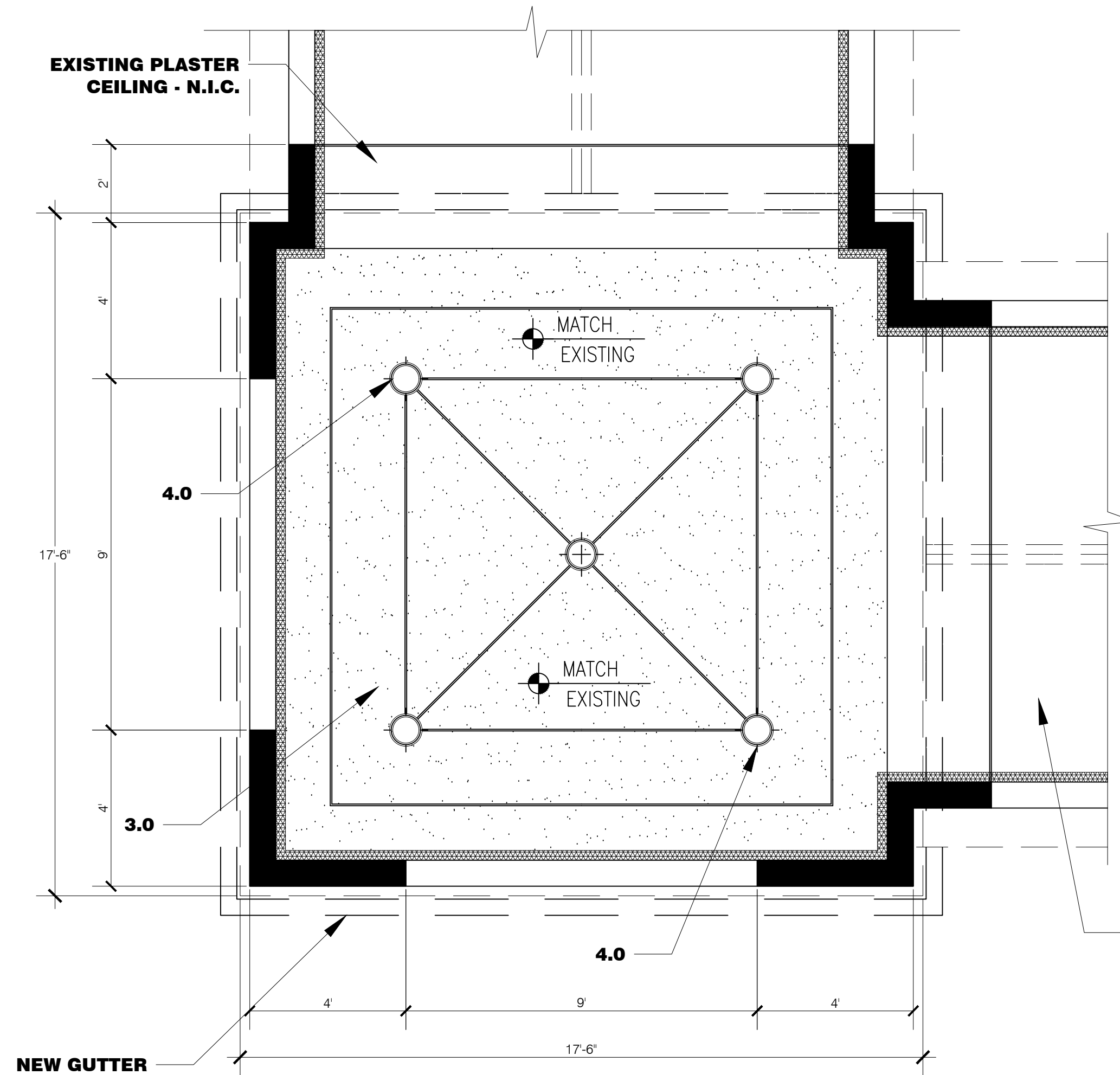
DRAWN BY: CAS PROJECT NUMBER: 20-092  
APPROVED BY: JPA PHASE: 100% FINAL REVIEW DOCS  
ENGINEER: DATE: JANUARY 15, 2021

ENLARGED  
PROPOSED GAZEBOS  
ROOF PLANS  
**A2.2**

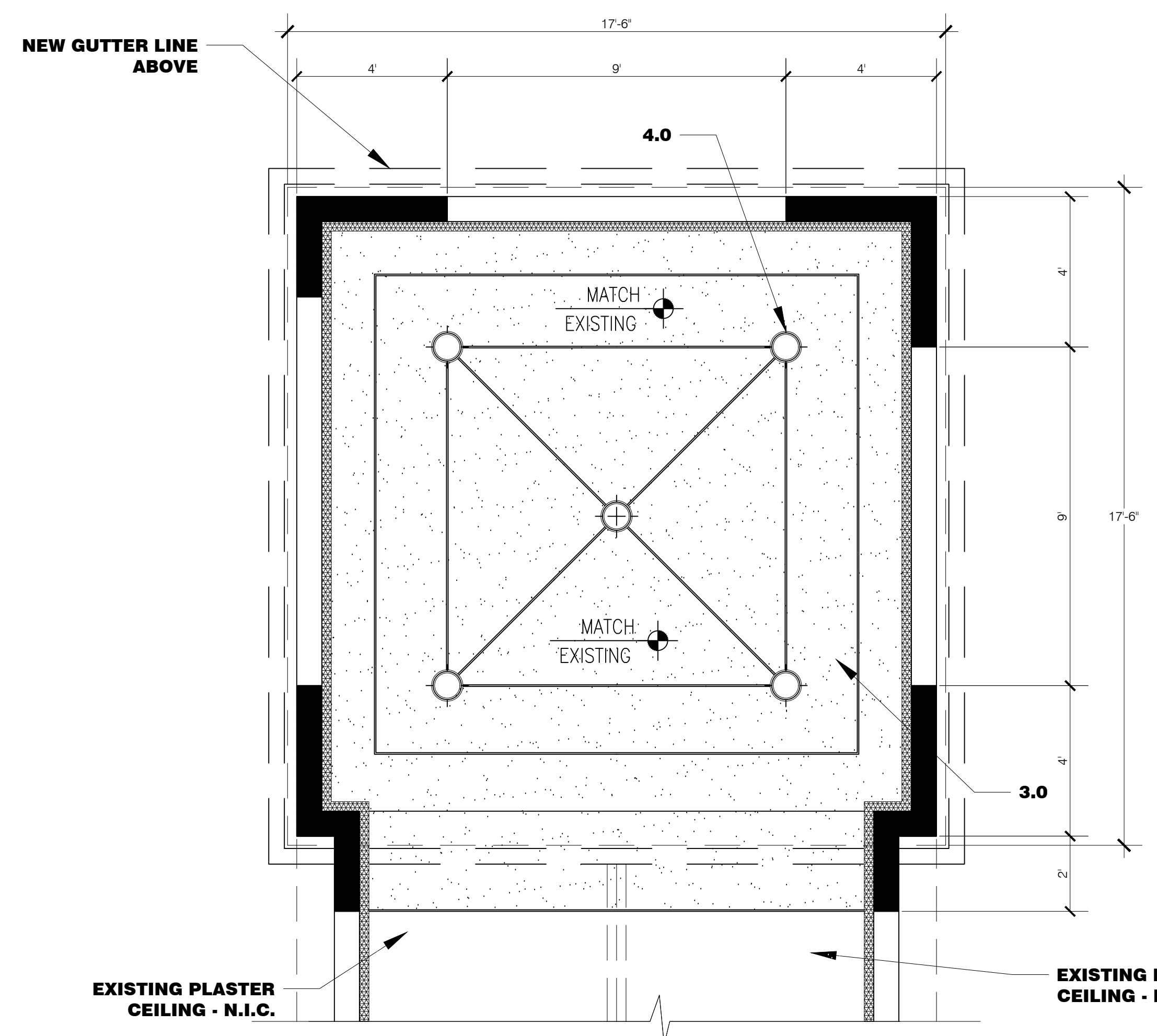
PLOT: 3/8" = 1'-0" SHEET

# CEILING SYMBOLS LEGEND:

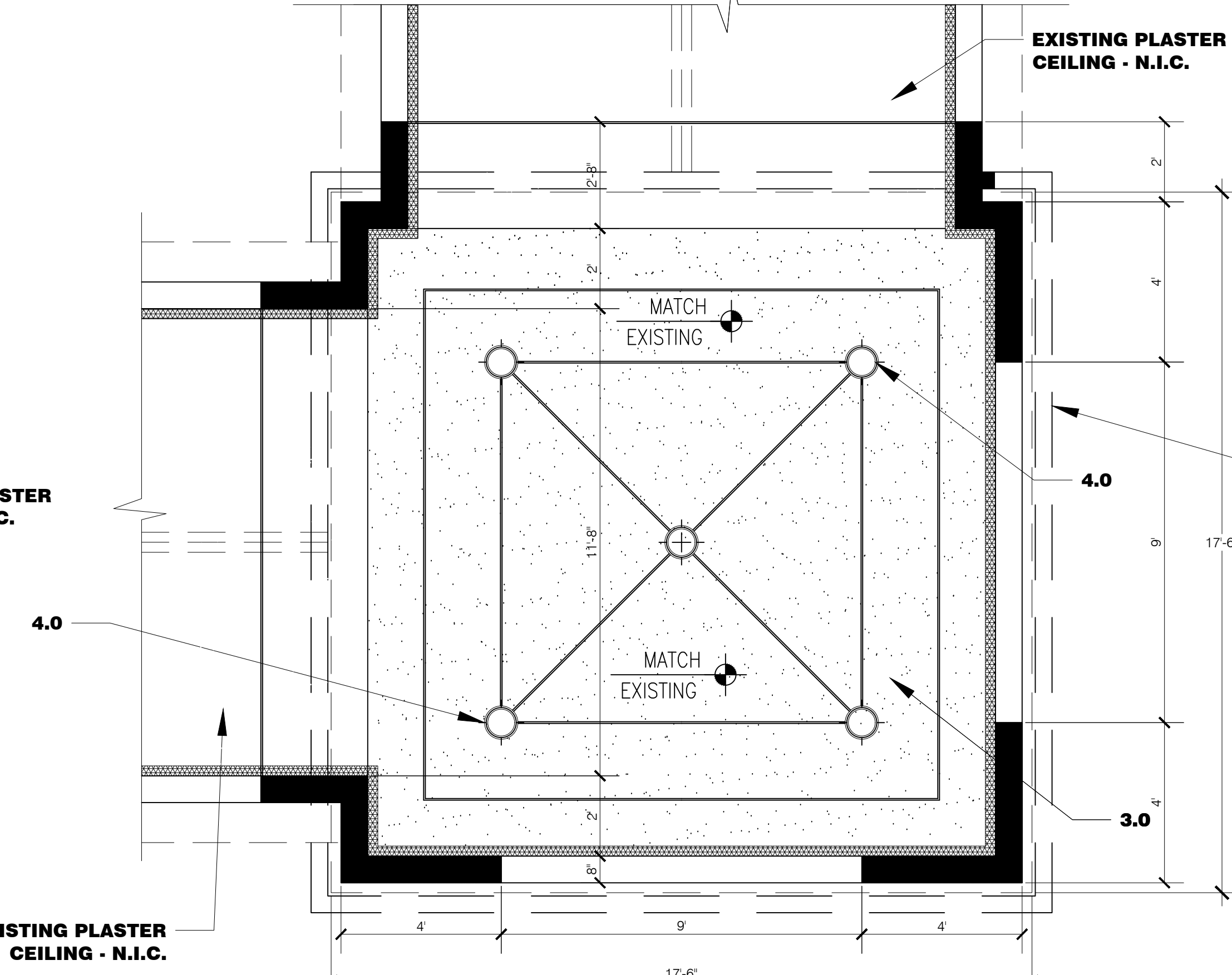
-  NEW GUTTER LINE ABOVE
-  NEW ROOF EDGE ABOVE
-  NEW PLASTER CEILING (MATCH EXISTING)
-  LED DOWNLIGHT / RECESSED FIXTURES
-  NEW SOFFIT CEILING VENTS
-  SECTION DETAIL DESIGNATION
- N.I.C.** NOT IN CONTRACT



**N 1**  
NORTHWEST  
PROPOSED RCP PLAN  
SCALE: 3/8" = 1'-0"



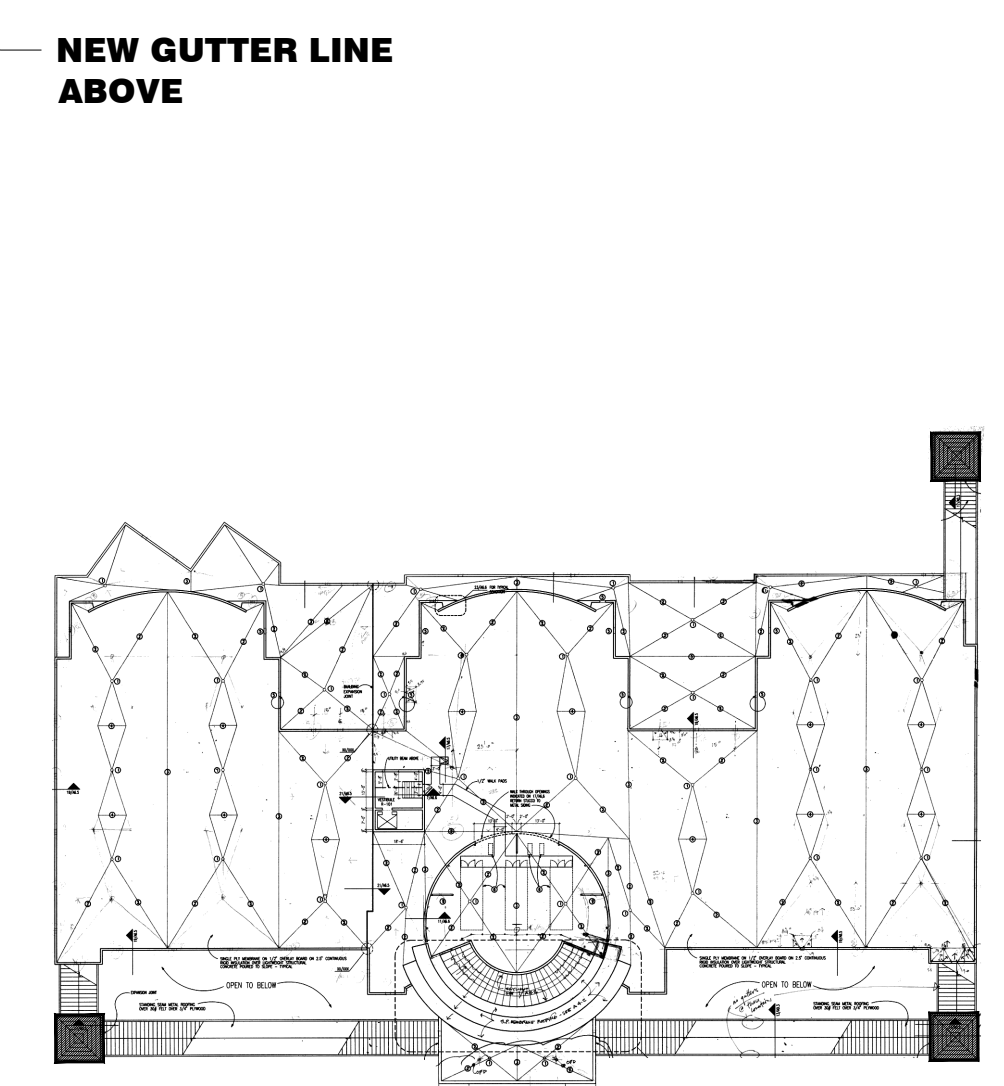
**N 2**  
SOUTHEAST  
PROPOSED ROOF PLAN  
SCALE: 3/8" = 1'-0"



**N 3**  
SOUTHWEST  
PROPOSED ROOF PLAN  
SCALE: 3/8" = 1'-0"

# SCOPE OF WORK:

- THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:**
- 1.0 GENERAL:**
  - 1.1 ENGINEERING:** CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE FASTENER SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.
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  - 2.0 STANDING SEAM METAL ROOF PANEL ASSEMBLY:**
  - 2.1 DEMOLITION:** REMOVE THE EXISTING STANDING SEAM METAL ROOF PANEL COMPONENTS FROM THREE ALL CORNER STANDING SEAM METAL ROOFING ASSEMBLIES. ROOFING ASSEMBLIES INCLUDE BUT ARE NOT LIMITED TO METAL ROOF PANELS, CLIPS, FASTENERS, FLASHINGS, GUTTERS AND UNDERLAYMENTS. REMOVE THE EXISTING PVC RAIN LEADERS FROM WITHIN CEILING CAVITY AND CAP EXISTING RAIN LEADERS.
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  - 3.0 EXTERIOR CEILINGS AT CORNER GAZEBOS:**
  - 3.1 PLASTER CEILINGS REPLACEMENT:** REMOVE ALL EXISTING INTERIOR PLASTER CEILINGS FROM THE EXISTING STEEL EXTERIOR CEILING FRAMING. REMOVE ALL CORROSION DEPOSITS FROM EXISTING STEEL FRAMING AND COAT PREVIOUS CORRODED STEEL WITH PPG AMERLOK 2 EPOXY COATING. AT DETERIORATED OR DAMAGED STEEL FRAMING, REMOVE AND REPLACE WITH NEW STEEL FRAMING COMPONENTS SECURED WITH STAINLESS STEEL FASTENERS. INSTALL NEW CEMENTITIOUS SHEATHING TO EXISTING AND REPAIRED STEEL FRAMING. INSTALL NEW STO ESSENCE DPR EXTERIOR CEILING FINISH FINISH SYSTEM WITH COLOR TO MATCH ADJACENT EXTERIOR CEILINGS. INSTALL NEW PERIMETER VENTS TO MATCH ADJACENT EXTERIOR CEILINGS. SEE SPECIFICATION SECTION 092513.)
  - 4.0 INTERIOR CEILING ELECTRICAL LIGHTS:**
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**N**  
KEY PLAN  
SCALE: 1/8" = 1'-0"

**NOT FOR CONSTRUCTION**  
100% FINAL REVIEW DOCUMENTS

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INDIAN RIVER COUNTY  
INDIAN RIVER COUNTY COURTHOUSE  
VERO BEACH, FLORIDA  
METAL ROOFING  
REPLACEMENT PROJECT

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JAY AMMON ARCHITECT, INC.  
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REVISIONS		DATE


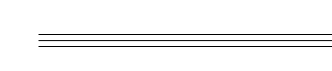

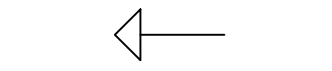

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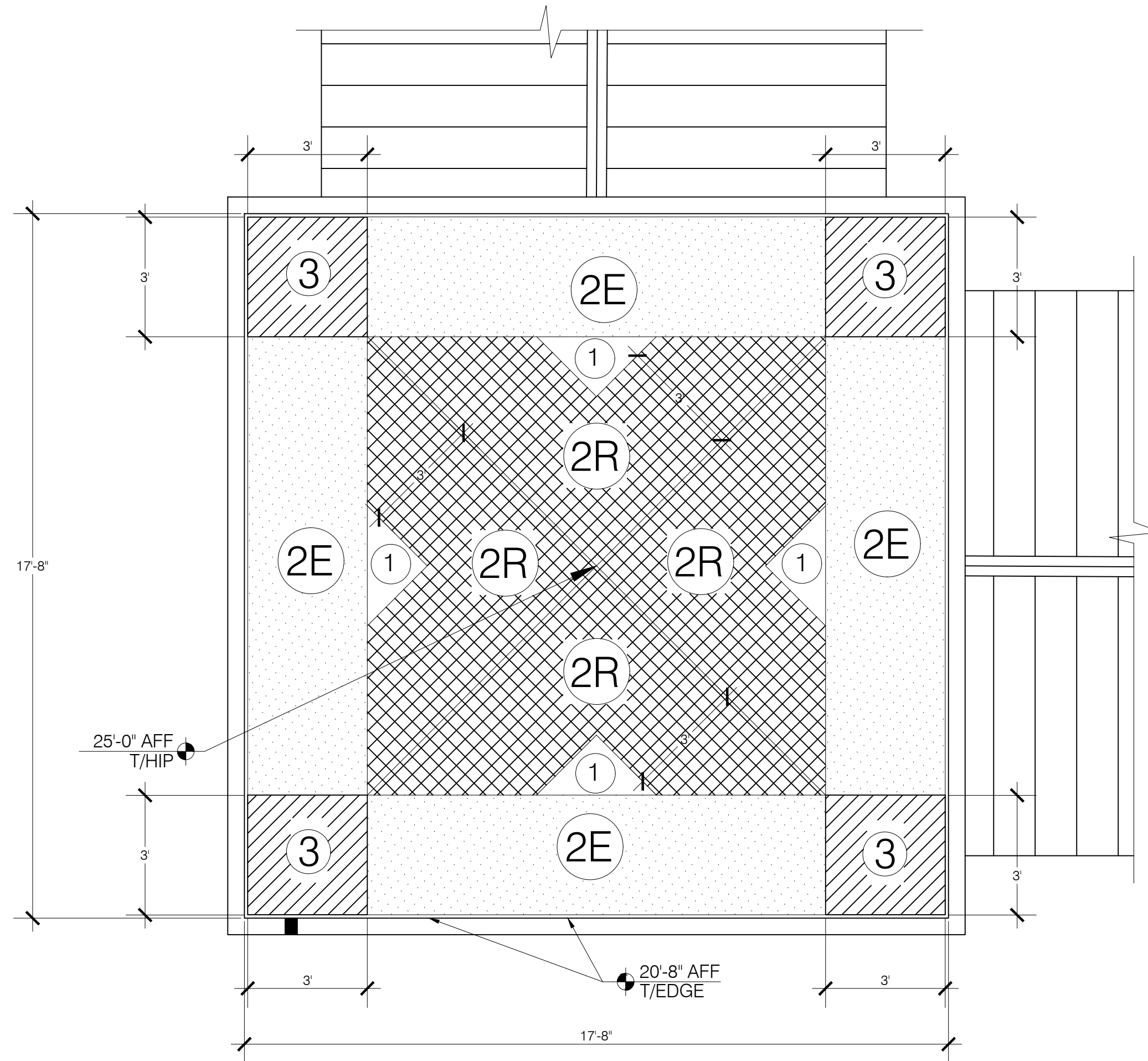
DRAWN BY: CAS PROJECT NUMBER: 20-092  
APPROVED BY: JPA PHASE: 100% FINAL REVIEW DOCS  
ENGINEER: DATE: JANUARY 15, 2021

**ENLARGED  
PROPOSED GAZEBOS  
ROOF PLANS  
A2.3**

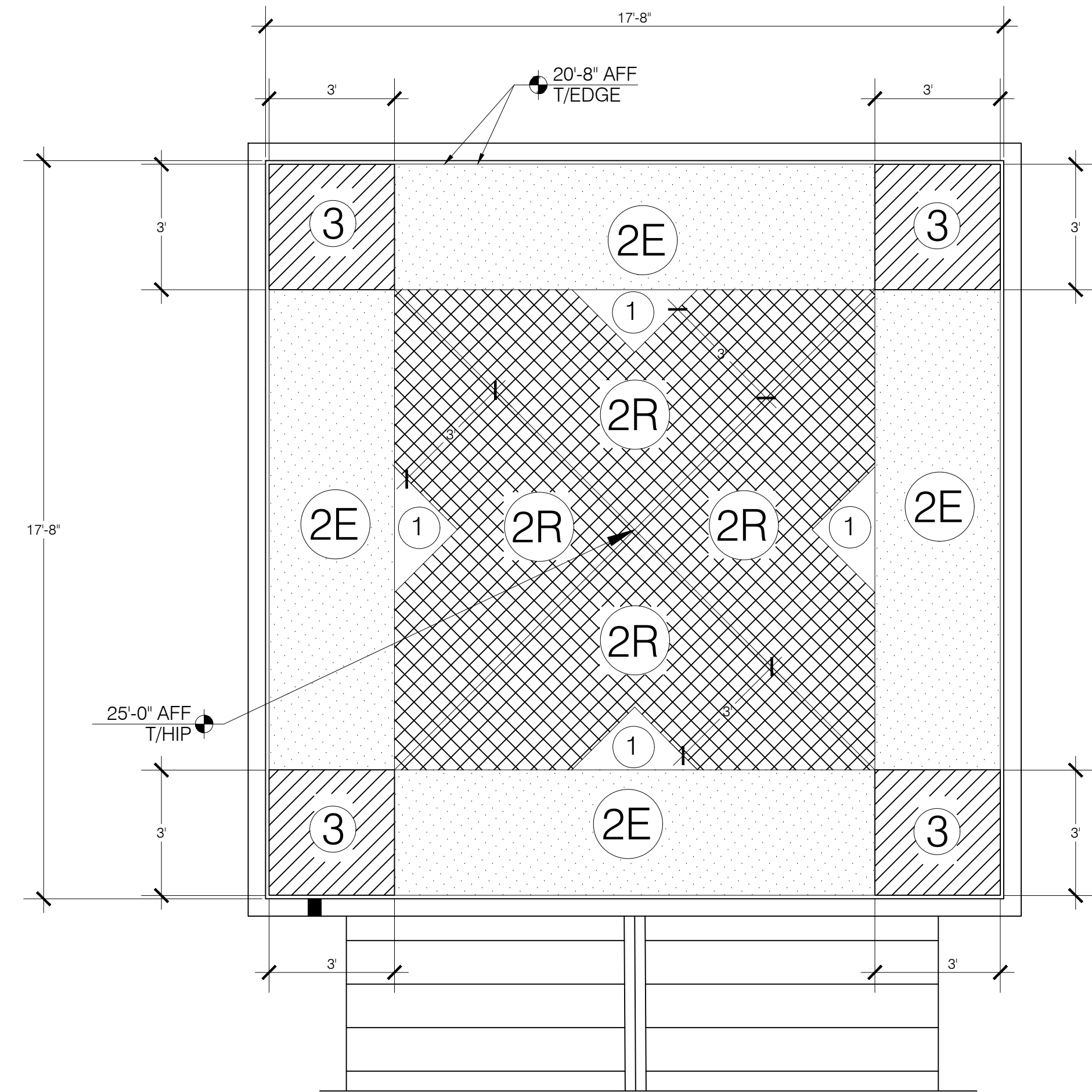
PLOT: 3/8" = 1'-0" SHEET

**LEGEND:**

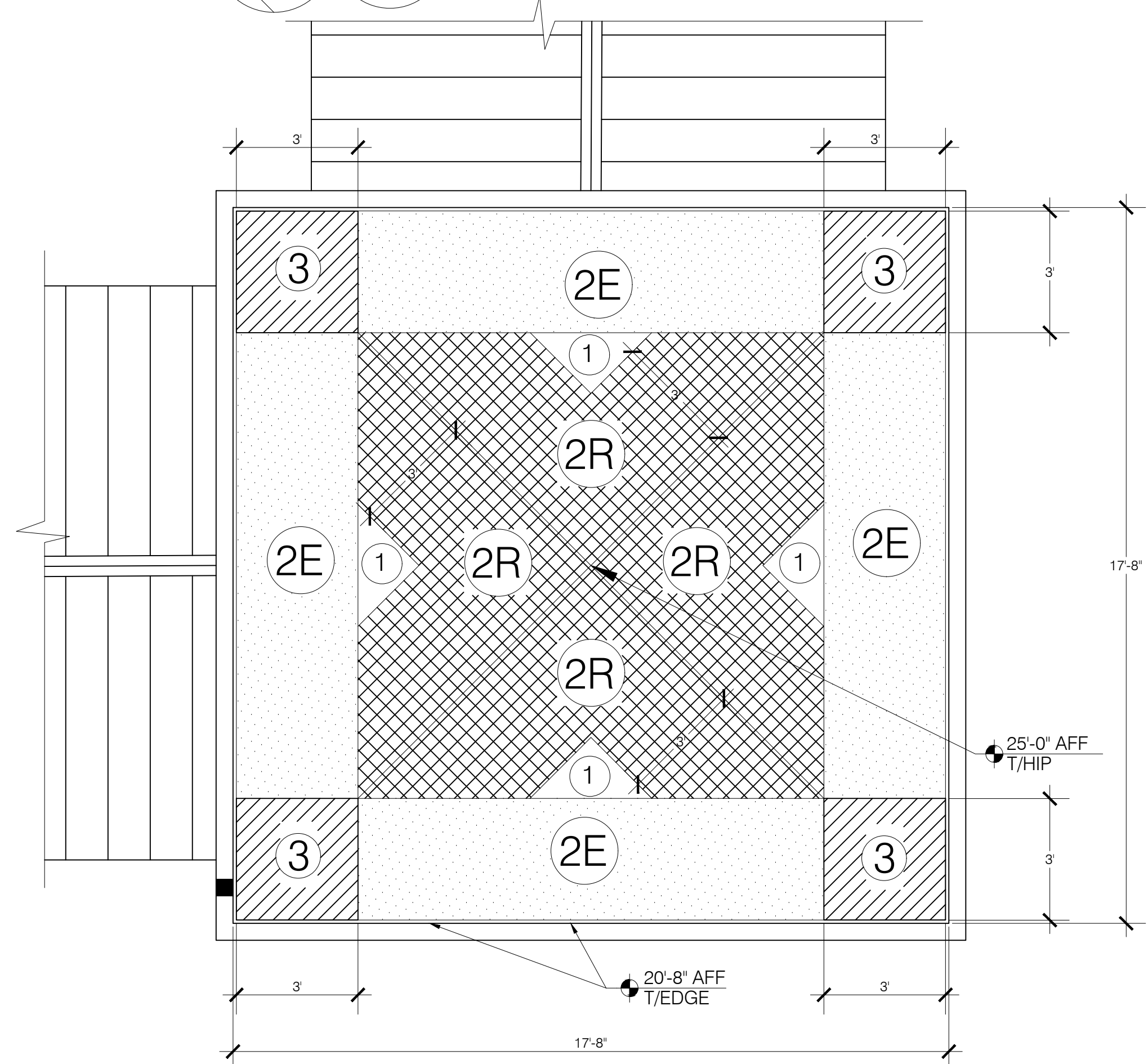
-  ROOF EDGE WITH NEW GUTTER AND DOWNSPOUTS
-  ROOF HIP / RIDGE LINE
-  ZONE DESIGNATIONS
-  EXISTING SLOPE - 7:12
-  ROOF AREA DESIGNATION



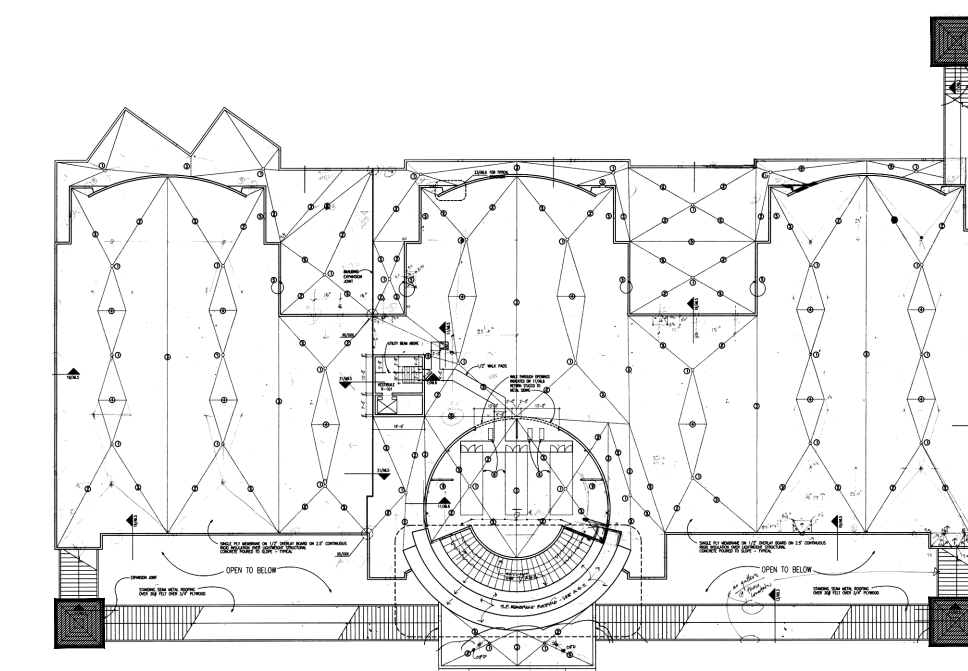
**NORTHWEST - WIND UPLIFT PRESSURE ROOF PLANS**  
 N 1 A2.4  
 SCALE: 3/8" = 1'-0"



**SOUTHEAST - WIND UPLIFT PRESSURE ROOF PLANS**  
 N 2 A2.4  
 SCALE: 3/8" = 1'-0"



**SOUTHWEST - WIND UPLIFT PRESSURE ROOF PLANS**  
 N 3 A2.4  
 SCALE: 3/8" = 1'-0"



**KEY PLAN**

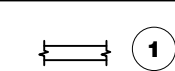

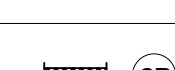
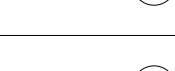
**WIND PRESSURES:**

WIND DESIGN FOR ROOFING COMPONENTS AND CLADDING:  
 ASCE 7-16, Vult=170 mph wind, Vasd=132 mph wind, category III,  
 Exposure "C", Kd = 0.85, h = 25 ft., OPEN BUILDING: GCpi = ± 0.18.

WIND UPLIFT PRESSURES SHOWN ARE GROSS PRESSURES FOR CORNER ZONE, EDGE ZONE, AND FIELD ZONE FOR ROOF COMPONENTS AND CLADDING (C & C). AREA ≤ 10 SF. WIND HAS BEEN CHECKED FOR AN ENCLOSED STRUCTURE AT EACH ROOF SLOPE AND HIGHEST WIND PRESSURES ARE SHOWN FOR EACH AREA.

CODES: FLORIDA BUILDING CODE 2020 ASCE 7-16.

**WIND PRESSURES FOR METAL ROOFS:**

WIND UPLIFT PRESSURE LEGEND:		ASCE 7-16 ROOF TYPE "D" DESIGN PRESSURES
ZONE 1 - FIELD ZONE		-59.9 PSF
ZONE 2E - EDGE ZONE		-71.7 PSF
ZONE 2R - CORNER ZONE		-97.4 PSF
ZONE 3 - CORNER ZONE		-95.2 PSF

ALL PRESSURES ARE ALLOWABLE STRESS DESIGN (ASD).  
 DEPTH OF PERIMETER AND CORNER ZONES FROM ROOF EDGE - 'a' DIMENSION IS 3 FEET

**NOT FOR CONSTRUCTION**  
 100% FINAL REVIEW DOCUMENTS  
 INDIAN RIVER COUNTY  
 INDIAN RIVER COUNTY COURTHOUSE  
 VERO BEACH, FLORIDA  
 METAL ROOFING REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC.  
 3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779  
 (407) 333-1977 • FAX: (407) 333-4886 • E-MAIL: JAY@JAYAMMON.COM

REVISIONS		
NUMBER	TYPE	DATE

DRAWN BY: CAS PROJECT NUMBER: 20-092  
 APPROVED BY: JPA PHASE: 100% FINAL REVIEW DOCS  
 ENGINEER: DATE: JANUARY 15, 2021

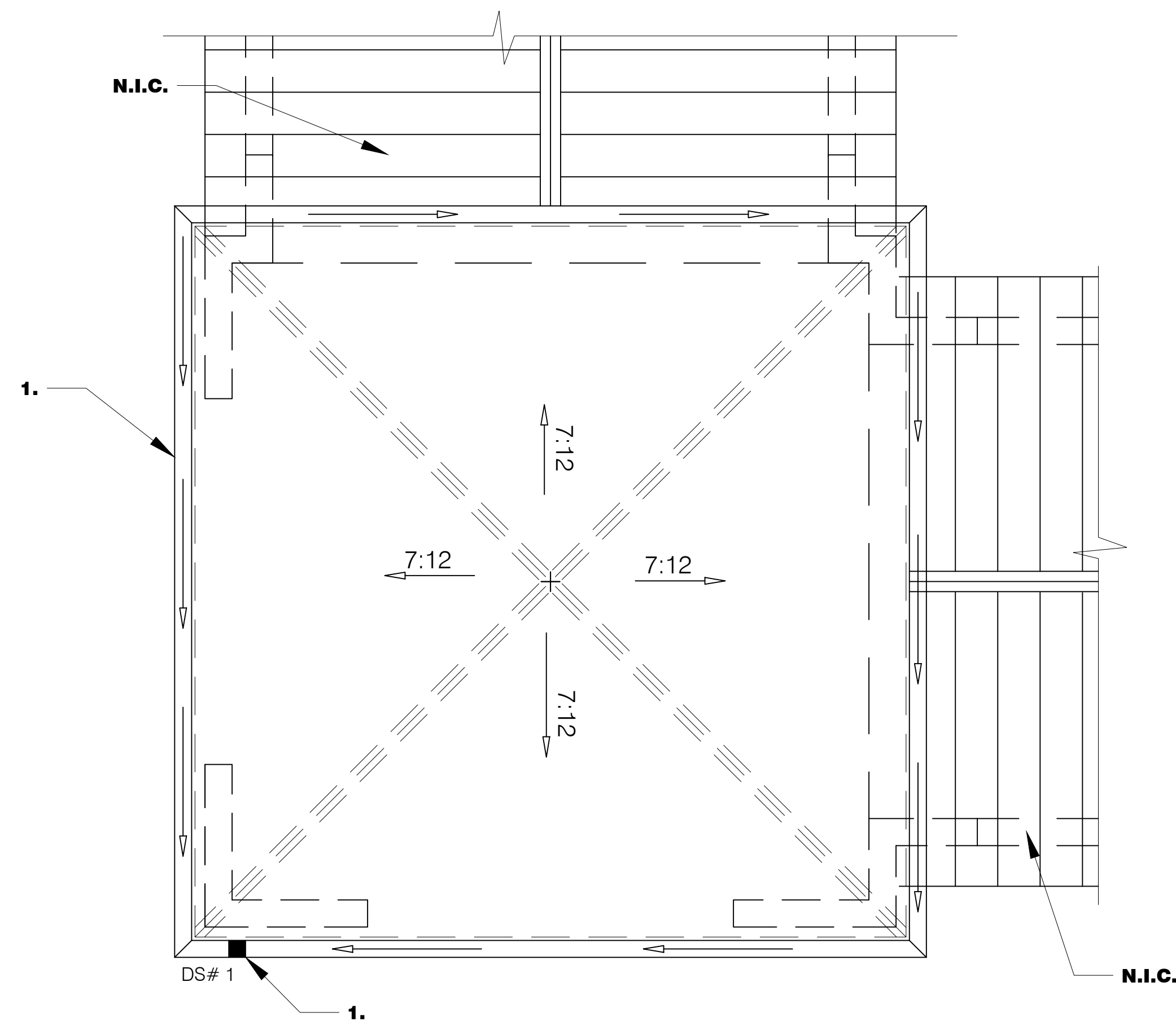
WIND UPLIFT PRESSURE PLANS  
**A2.4**  
 PLOT: 3/8" = 1'-0" SHEET

# LEGEND:

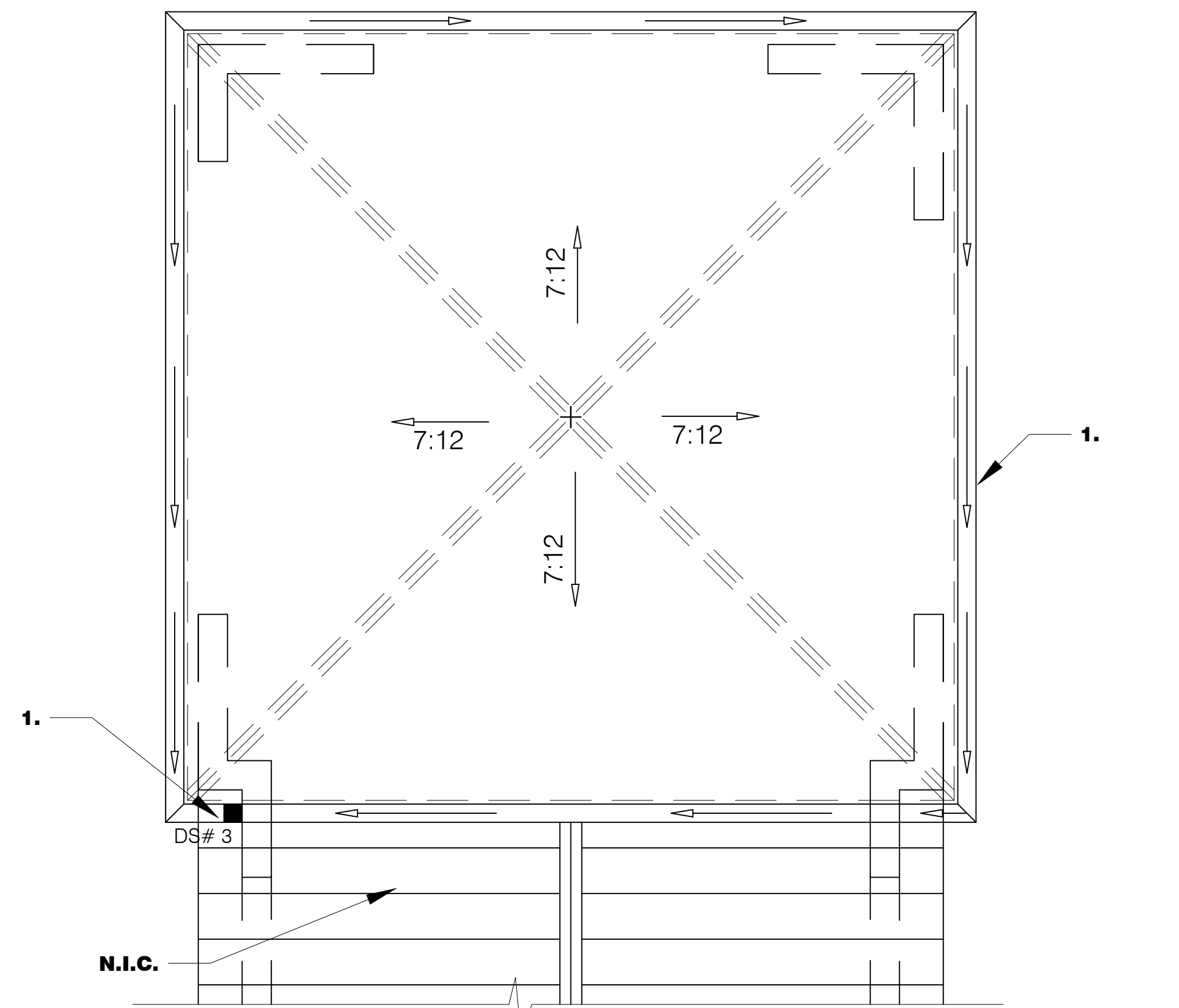
- NEW ROOF EDGE PERIMETER (SEE SCOPE OF WORK ITEM 2.0)
- NEW GUTTER WITH DOWNSPOUTS. (SEE SCOPE OF WORK ITEM 2.7)
- ==== EXISTING BUILDING LINE BELOW
- DS# DOWNSPOUTS DESIGNATIONS
- ← SLOPE METAL ROOF PANEL SLOPE
- ← GUTTER SLOPE
- A → SPECIFIC NOTE LOCATION

# ROOF DRAINAGE CALCULATION:

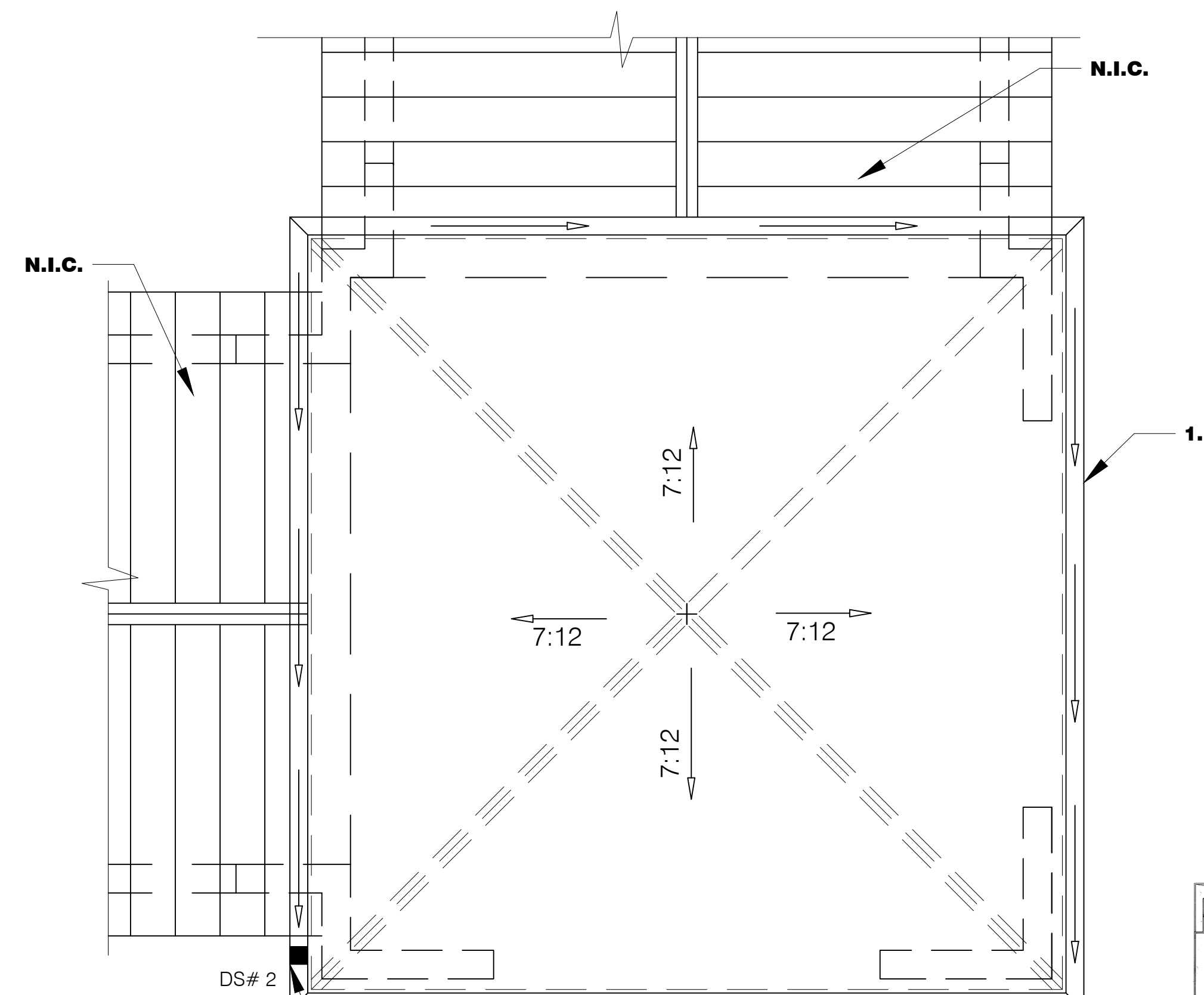
PROPOSED DOWNSPOUTS DESIGNATION	PROPOSED OVERFLOW DESIGNATION	ROOF AREA (SF)	TOTAL AREA (SF)	FLOW RATE CONSTANT	FLOW RATE OF ROOF AREA (GPM)	PROPOSED GUTTER SIZES	PROPOSED GUTTER FLOW RATE (GPM)	PROPOSED DOWNSPOUT SIZES	PROPOSED DOWNSPOUT FLOW RATE (GPM)
DS1	N/A	312	312	0.0104	15	5x5	472	4x4	563
DS2	N/A	312	312	0.0104	13	5x5	472	4x4	563
DS3	N/A	312	312	0.0104	13	5x5	472	4x4	563



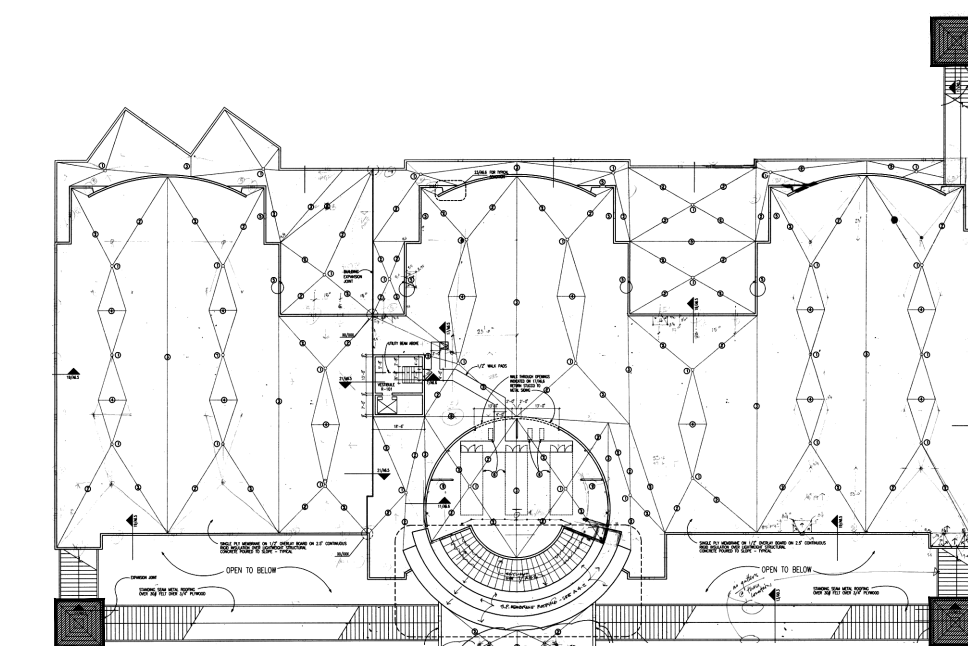
**1** NORTHWEST DRAINAGE ROOF PLAN  
SCALE: 3/8" = 1'-0"



**2** SOUTHEAST DRAINAGE ROOF PLAN  
SCALE: 3/8" = 1'-0"



**3** SOUTHWEST DRAINAGE ROOF PLAN  
SCALE: 3/8" = 1'-0"



**N** KEY PLAN

# NEW CONSTRUCTION NOTES

1. **GUTTERS AND DOWNSPOUTS:** INSTALL NEW GUTTERS AND NEW DOWNSPOUTS IN SAME LOCATIONS AS WHERE THEY WERE REMOVED. SEE DETAILS ON SHEET A3.4.
2. **ONE-PIECE TRANSITION FLASHING:** INSTALL NEW ONE-PIECE TRANSITION FLASHING WITH ALL ADHERED NON-MOVING JOINTS. PREPARE IN-PLACE MOCKUP FOR OWNER AND A/E APPROVAL.

**NOT FOR CONSTRUCTION**  
100% FINAL REVIEW DOCUMENTS

INDIAN RIVER COUNTY  
INDIAN RIVER COUNTY COURTHOUSE  
VERO BEACH, FLORIDA  
METAL ROOFING  
REPLACEMENT PROJECT

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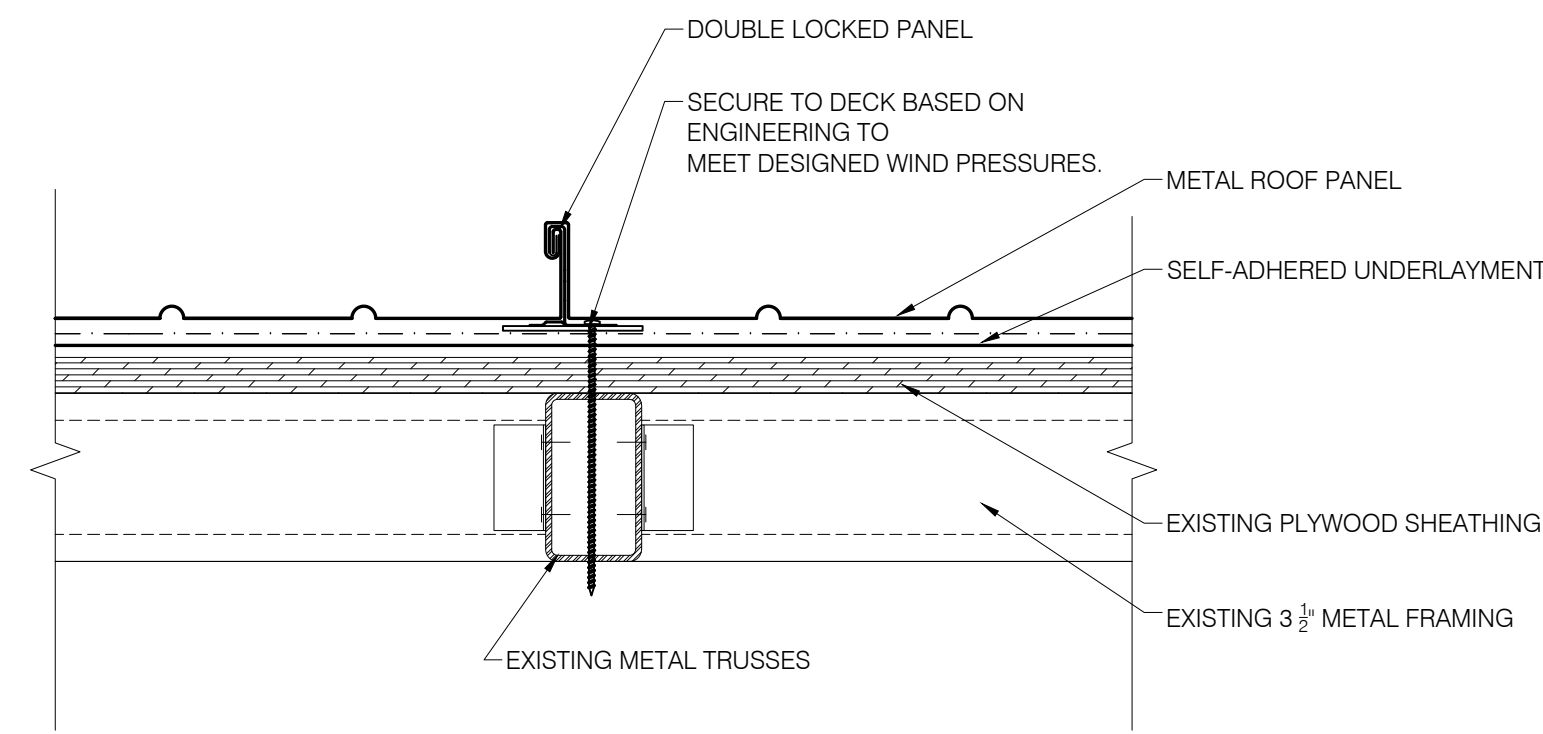
NUMBER	TYPE	REVISIONS	DATE

DRAWN BY: CAS PROJECT NUMBER: 20-092  
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ENGINEER: DATE: JANUARY 15, 2021

PROPOSED DRAINAGE ROOF PLANS  
**A2.5**  
PLOT: 3/8" = 1'-0" SHEET

**NOTES FOR A/A3.1:**

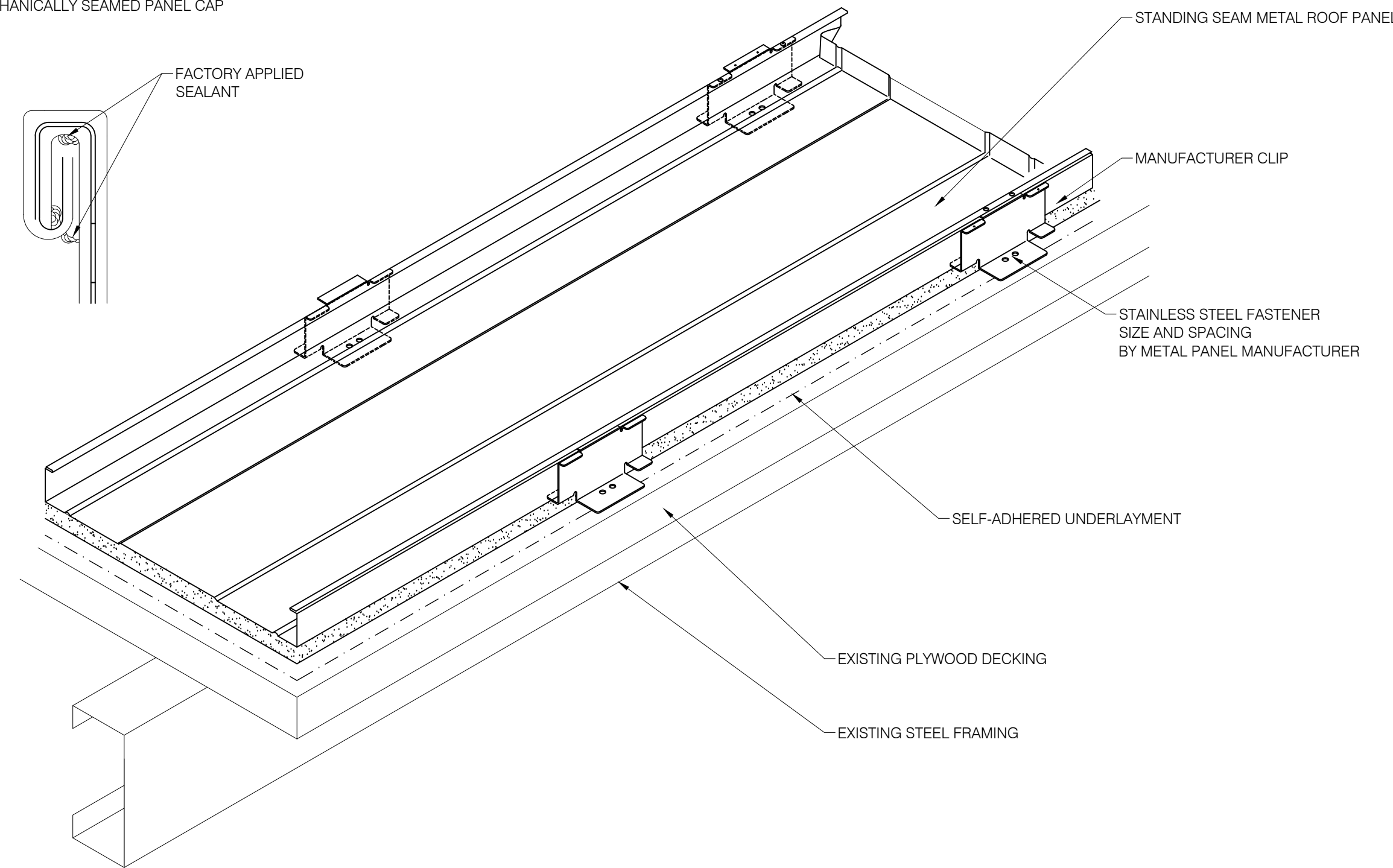
- A. BASIS OF DESIGN: FLORIDA PRODUCT APPROVAL - FL24423.12; MIAMI-DADE NOA NO.: 19-0909.17.
- B. BASIS OF DESIGN: .040" ALUMINUM, 16" WIDE, TITE-LOC PLUS PANEL MANUFACTURED BY PETERSEN ALUMINUM.
- C. SITE SPECIFIC ENGINEERING REQUIRED BASED ON VARIANCE OF EXISTING CONDITIONS AND TOTAL ASSEMBLY THICKNESS. SUBMIT ENGINEERING TO A/E FOR APPROVAL PRIOR TO ORDERING MATERIALS.
- D. FASTENER TYPE, CLIP AND SPACING PER SITE SPECIFIC ENGINEERING, MANUFACTURER'S RECOMMENDATION AND DESIGN WIND PRESSURES.
- E. ALL FASTENERS TO HAVE A MINIMUM EMBEDMENT ACCORDING TO PRODUCT APPROVAL.
- F. EXISTING ROOFING ASSEMBLY THICKNESSES ARE APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO ROOF ASSEMBLY THICKNESSES.



**A**  
TYPICAL METAL ROOFING ASSEMBLY  
AT CORNER GAZEBOS  
N.T.S.

**NOTE:**

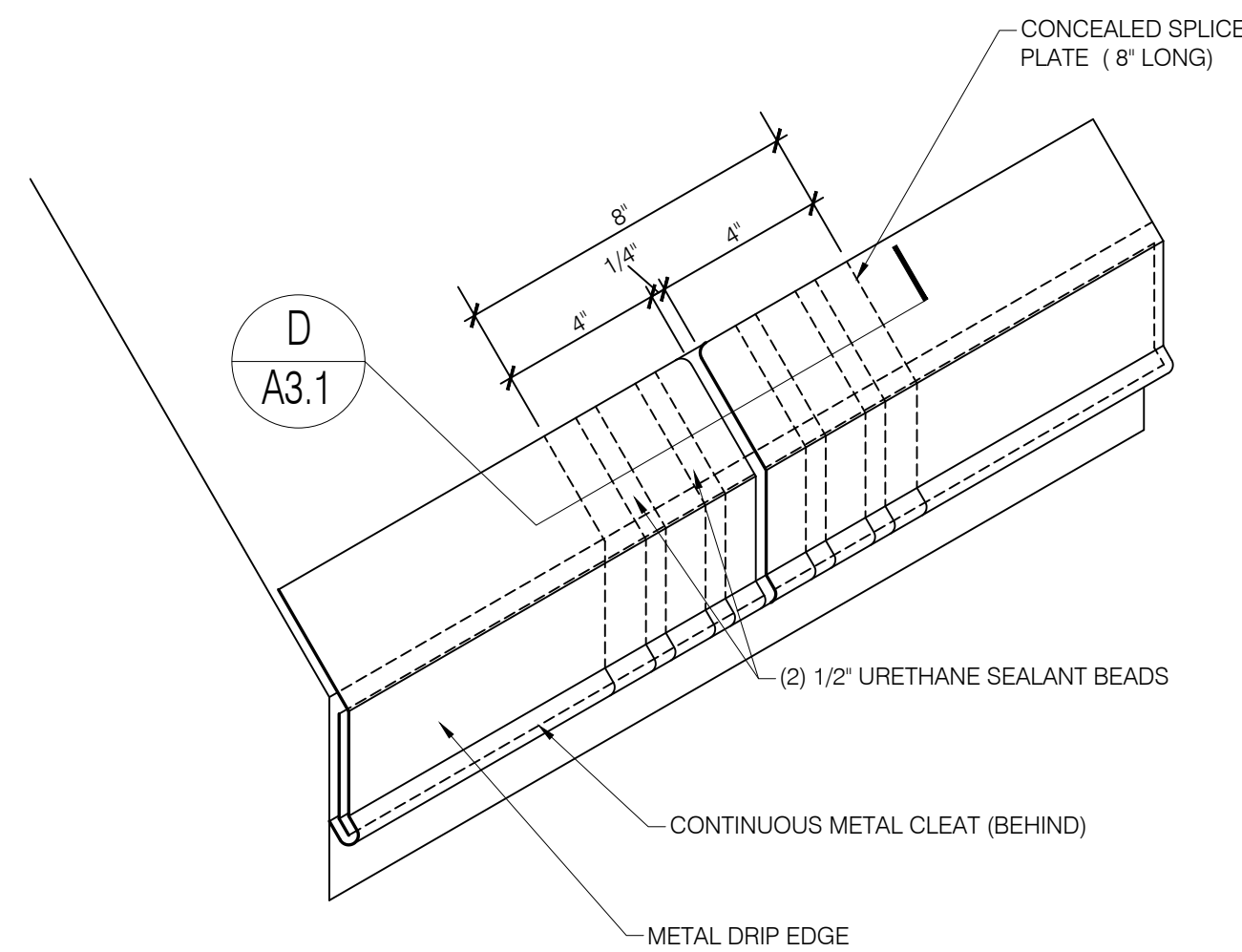
TYPICAL SEAM CAP. FACTORY APPLIED SEALANT IN A MECHANICALLY SEAMED PANEL CAP



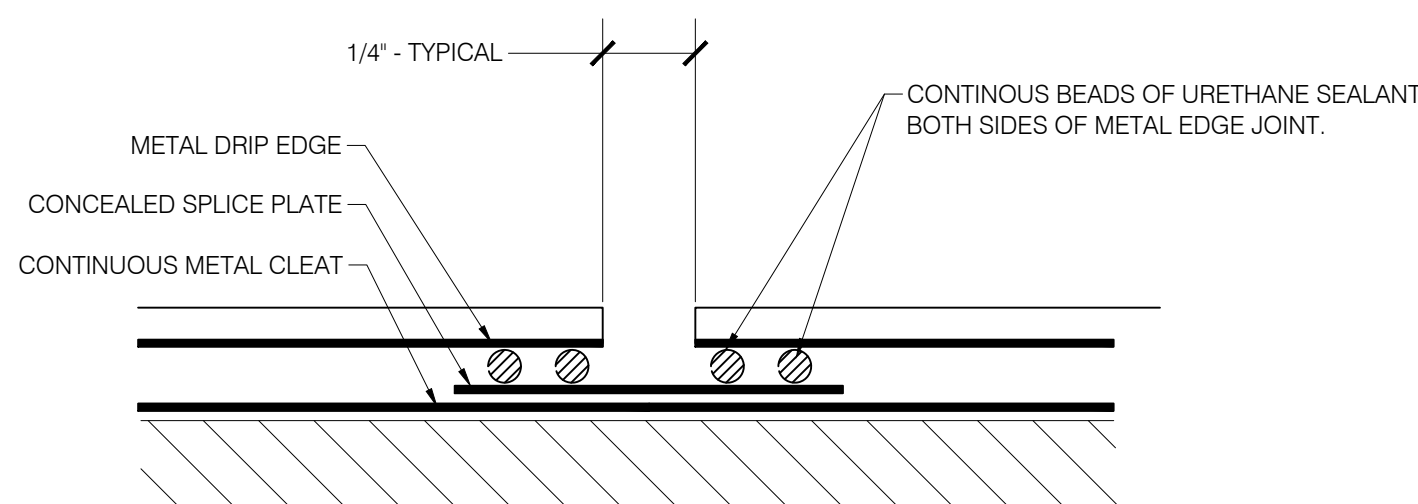
**B**  
TYPICAL METAL ROOF PANEL  
ISOMETRIC  
N.T.S.

**NOTE FOR C/A5.1:**

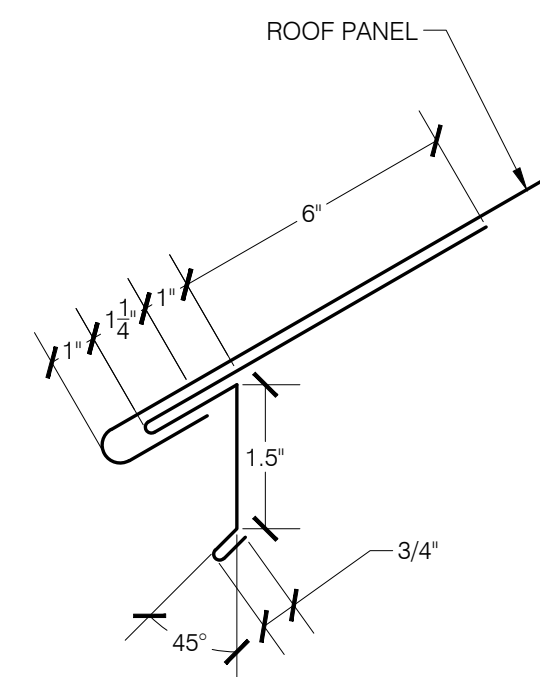
- A. PROVIDE MOCK-UP FOR OWNER / A/E APPROVAL PRIOR TO
- B. FABRICATING AND INSTALLING SIMILAR DETAILS.



**C**  
METAL DRIP EDGE SPLICE PLATE  
N.T.S.

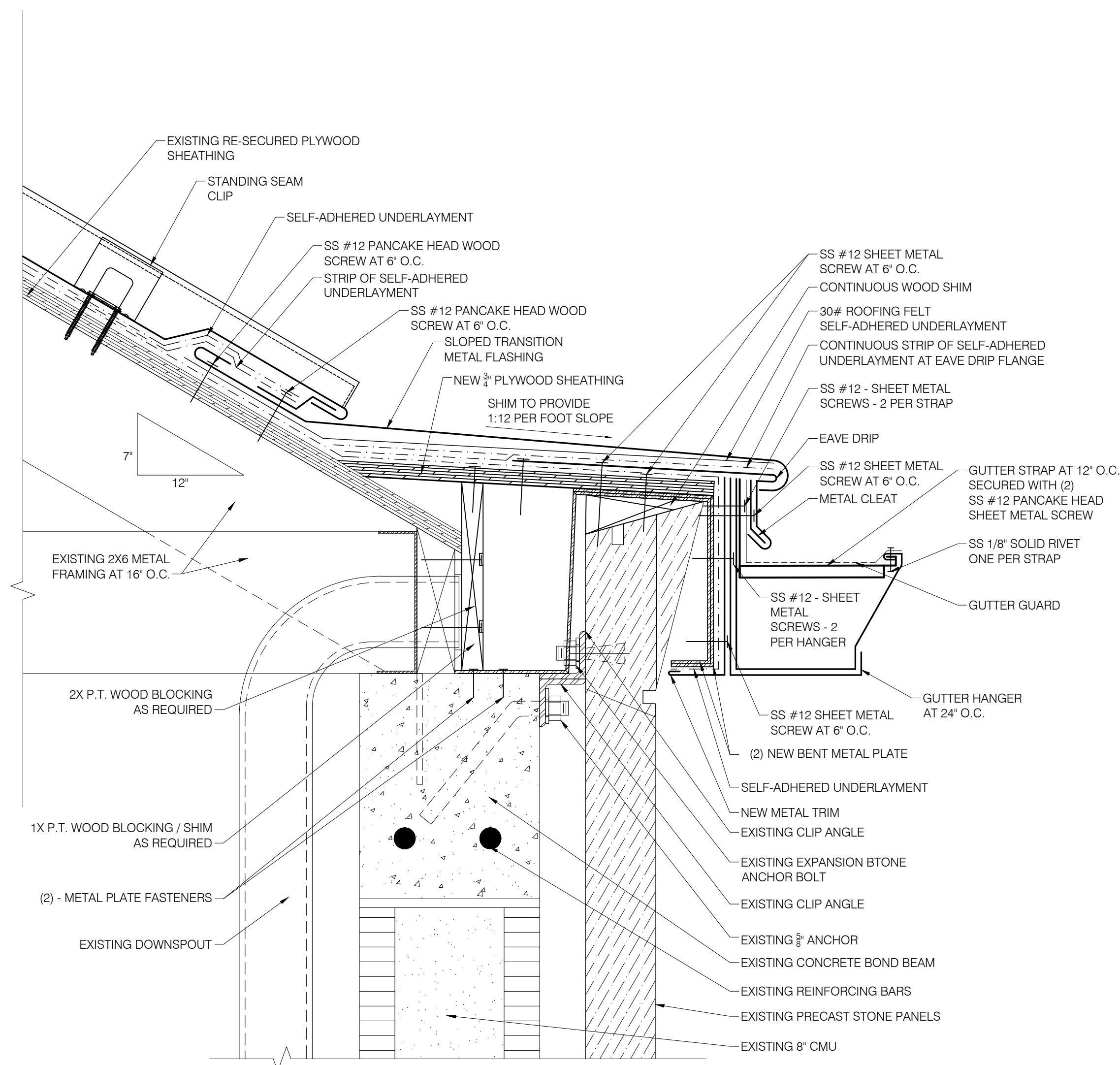


**D**  
SECTION THRU SPLICE PLATE  
N.T.S.



DETAIL A

**E**  
SECTION AT EAVEDRIP  
N.T.S.



**F**  
SECTION THROUGH EAVE - TYPICAL  
AT CORNER GAZEBOS - OPTIONAL  
N.T.S.

**MATERIAL COMPONENT SCHEDULE**

**ROUGH CARPENTRY**

SPECIFICATION SECTION 061000  
**WOOD BLOCKING:** EXTERIOR GRADE FIRE RETARDANT WOOD  
**PLYWOOD SHEATHING:** EXTERIOR GRADE FIRE RETARDANT PLYWOOD.

**STANDING-SEAM METAL ROOF PANELS**

SPECIFICATION SECTION 074110  
**BENT METAL PLATE:** 16 GAGE STAINLESS STEEL ALLOY 410.  
**METAL ROOF CLIP:** STAINLESS STEEL, SUPPLIED BY THE METAL ROOFING MANUFACTURER, SECURED TO EXISTING STEEL DECK WITH STAINLESS STEEL FASTENERS AND WITH THERMAL MOVEMENT PROVISIONS.

**SELF-ADHERED UNDERLAYMENT:** .040" SELF-ADHERED MODIFIED BITUMEN, ASTM D 1970, (W.R. GRACE "ICE & WATER SHIELD HT") ADHERED OVER PRIMED SUBSTRATE BELOW.

**SUPPORT PLATE:** 16 GAGE GALVANIZED STEEL, G90.

**METAL ROOF PANEL:** .040" THICK PRE-PAINTED ALUMINUM X 16" WIDE X 2" MIN. HIGH ARCHITECTURAL STANDING SEAM WITH STIFFENING RIBS, MECHANICALLY ATTACHED TO EXISTING PLYWOOD WITH CONCEALED CLIPS.

**SHEET METAL FLASHING AND TRIM:** .040" THICK PRE-PAINTED ALUMINUM.

**SHEET METAL FLASHING AND TRIM**

SPECIFICATION SECTION 076200

**BENT METAL PLATE:** 16 GAGE, GALVANIZED G90.

**SUPPORT PLATE:** 16 GAGE, GALVANIZED G90.

**CONCEALED SPLICE PLATE:** .040" THICK PRE-PAINTED ALUMINUM.

**DOWNSPOUT:** .050" PRE-PAINTED ALUMINUM.

**DOWNSPOUT STRAPS:** .063" THICK X 1" PRE-PAINTED ALUMINUM.

**GUTTER:** SEAMLESS .050" PRE-PAINTED ALUMINUM OR .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

**GUTTER BRACKET:** 3/16" X 1" PRE-PAINTED ALUMINUM.

**GUTTER STRAPS:** .050" PRE-PAINTED ALUMINUM.

**HEAD WALL FLASHING:** .040" PRE-PAINTED ALUMINUM.

**METAL CLEAT:** 22 GAGE STAINLESS STEEL, TYPE 316.

**METAL DRIP EDGE:** .040" THICK PRE-PAINTED ALUMINUM.

**METAL HIP/RIDGE CAP FLASHING:** .050" THICK PRE-PAINTED ALUMINUM.

**ONE-PIECE TRANSITION FLASHING:** .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

**JOINT SEALANTS** SPECIFICATION SECTION 079200

**BACKER ROD:** CLOSED-CELL BACKER ROD.

**BUTYL SEALANT:** ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.

**SILICONE SEALANT:** SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

**SEALANT TAPE:** 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.

**STRUCTURAL SEALANT:** SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.

**URETHANE SEALANT:** SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.

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INDIAN RIVER COUNTY

INDIAN RIVER COUNTY COURTHOUSE  
VERO BEACH, FLORIDA  
METAL ROOFING  
REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC.  
3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779  
(407) 333-1977 • FAX: (407) 333-4686 • E MAIL: JAY@JAYAMMON.COM

REVISIONS			
NUMBER	TYPE	REVISIONS	DATE

DRAWN BY: CAS PROJECT NUMBER: 20-062  
 APPROVED BY: JPA PHASE: 100% FINAL REVIEW DOCS  
 ENGINEER: DATE: JANUARY 15, 2021

ROOF DETAILS



**MATERIAL COMPONENT SCHEDULE**

**ROUGH CARPENTRY**  
 SPECIFICATION SECTION 061000  
**WOOD BLOCKING:** EXTERIOR GRADE FIRE RETARDANT WOOD  
**PLYWOOD SHEATHING:** EXTERIOR GRADE FIRE RETARDANT PLYWOOD.

**STANDING-SEAM METAL ROOF PANELS**

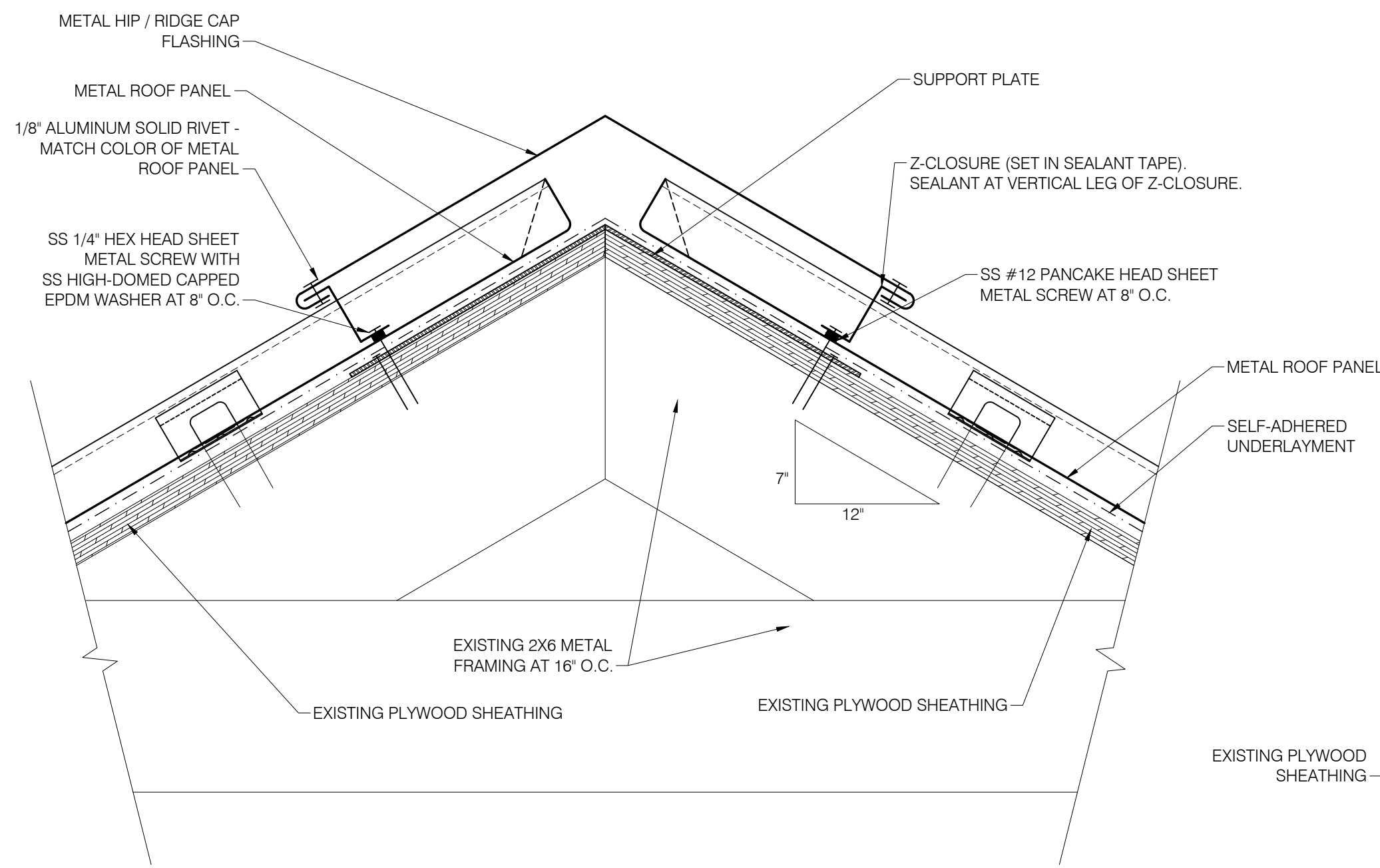
SPECIFICATION SECTION 074110  
**BENT METAL PLATE:** 16 GAGE STAINLESS STEEL ALLOY 410.  
**METAL ROOF CLIP:** STAINLESS STEEL, SUPPLIED BY THE METAL ROOFING MANUFACTURER, SECURED TO EXISTING STEEL DECK WITH STAINLESS STEEL FASTENERS AND WITH THERMAL MOVEMENT PROVISIONS.  
**SELF-ADHERED UNDERLAYMENT:** .040" SELF-ADHERED MODIFIED BITUMEN, ASTM D 1970, (W.R. GRACE "ICE & WATER SHIELD HT") ADHERED OVER PRIMED SUBSTRATE BELOW.  
**SUPPORT PLATE:** 16 GAGE GALVANIZED STEEL, G90.  
**METAL ROOF PANEL:** .040" THICK PRE-PAINTED ALUMINUM X 16" WIDE X 2" MIN. HIGH ARCHITECTURAL STANDING SEAM WITH STIFFENING RIBS, MECHANICALLY ATTACHED TO EXISTING PLYWOOD WITH CONCEALED CLIPS.  
**SHEET METAL FLASHING AND TRIM:** .040" THICK PRE-PAINTED ALUMINUM.

**SHEET METAL FLASHING AND TRIM**

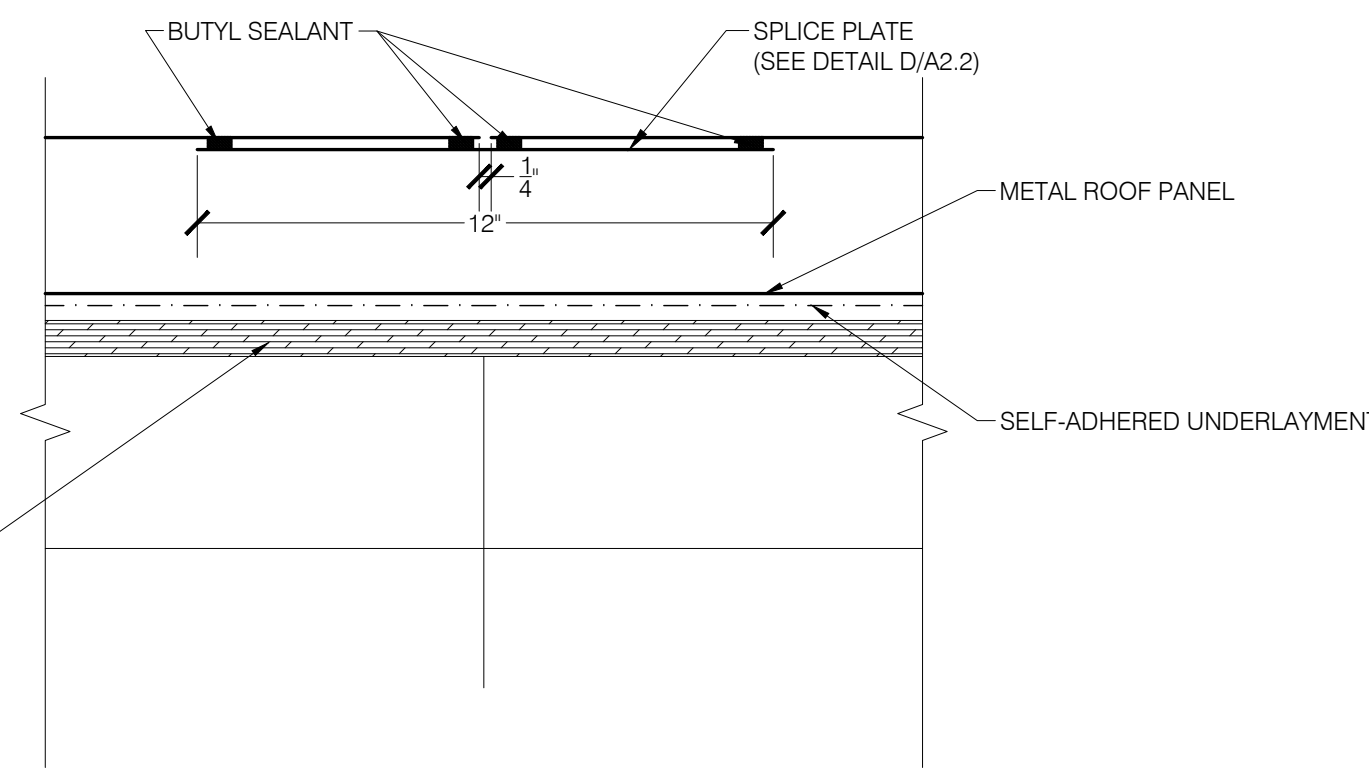
SPECIFICATION SECTION 076200  
**BENT METAL PLATE:** 16 GAGE, GALVANIZED G90.  
**SUPPORT PLATE:** 16 GAGE, GALVANIZED G90.  
**CONCEALED SPLICE PLATE:** .040" THICK PRE-PAINTED ALUMINUM.  
**DOWNSPOUT:** .050" PRE-PAINTED ALUMINUM.  
**DOWNSPOUT STRAPS:** .063" THICK X 1" PRE-PAINTED ALUMINUM.  
**GUTTER:** SEAMLESS .050" PRE-PAINTED ALUMINUM OR .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.  
**GUTTER BRACKET:** 3/16" X 1" PRE-PAINTED ALUMINUM.  
**GUTTER STRAPS:** .050" PRE-PAINTED ALUMINUM.  
**HEAD WALL FLASHING:** .040" PRE-PAINTED ALUMINUM.  
**METAL CLEAT:** 22 GAGE STAINLESS STEEL, TYPE 316.  
**METAL DRIP EDGE:** .040" THICK PRE-PAINTED ALUMINUM.  
**METAL HIP/RIDGE CAP FLASHING:** .050" THICK PRE-PAINTED ALUMINUM.  
**ONE-PIECE TRANSITION FLASHING:** .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

**JOINT SEALANTS** SPECIFICATION SECTION 079200

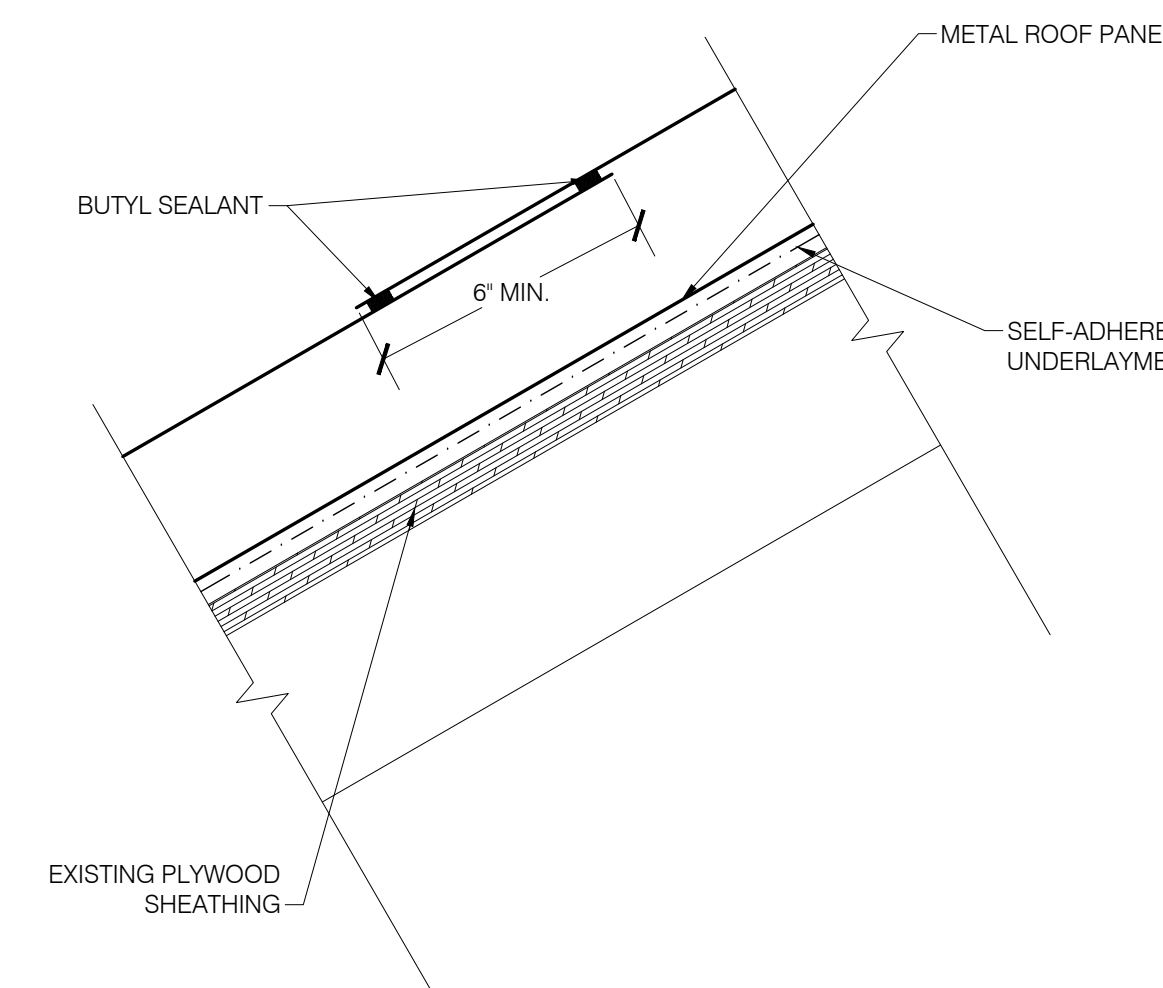
**BACKER ROD:** CLOSED-CELL BACKER ROD.  
**BUTYL SEALANT:** ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.  
**SILICONE SEALANT:** SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.  
**SEALANT TAPE:** 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.  
**STRUCTURAL SEALANT:** SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.  
**URETHANE SEALANT:** SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.



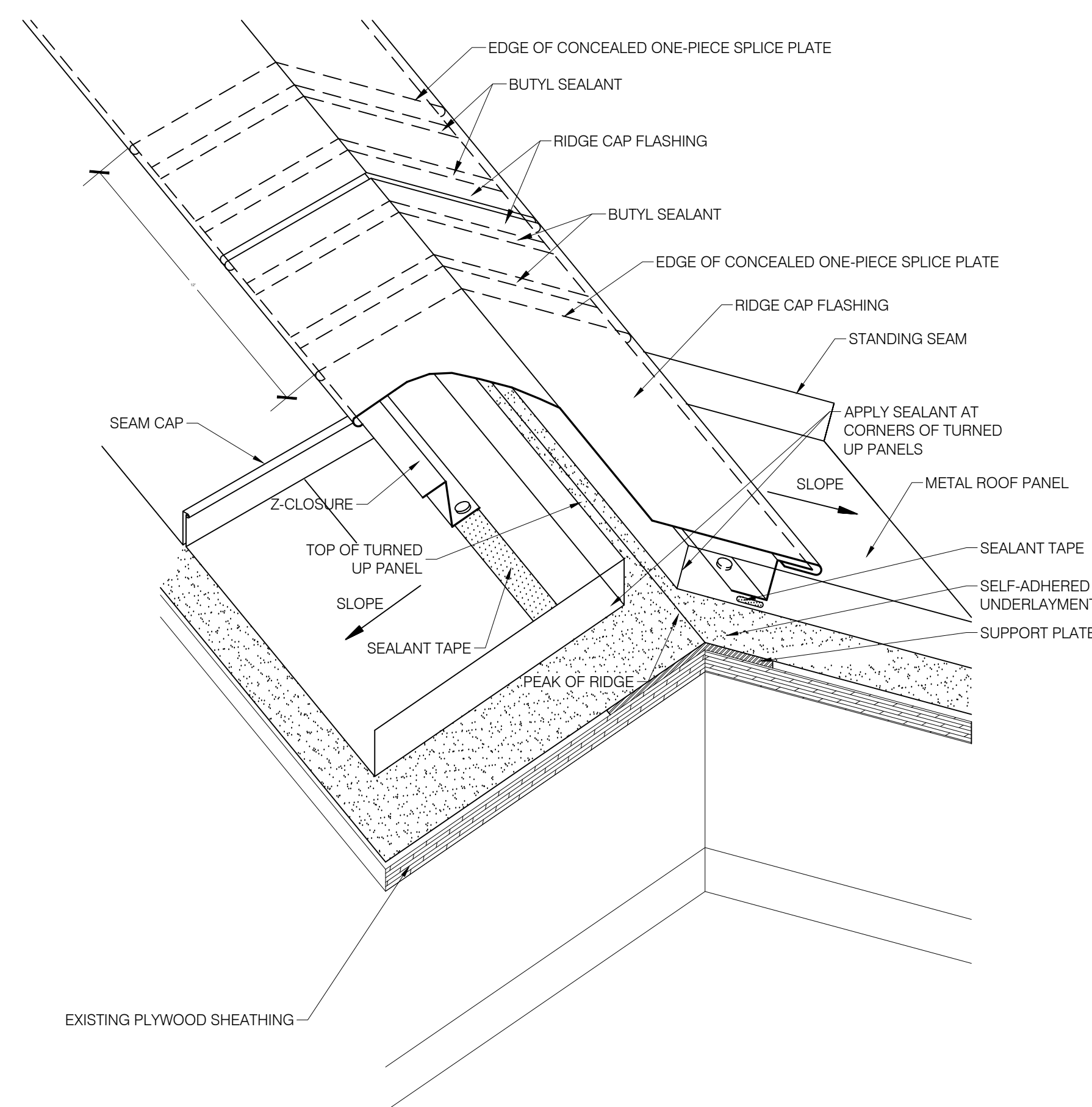
**A**  
 HIP CAP FLASHING - TYPICAL AT CORNER GAZEBOS  
 A3.2 N.T.S.



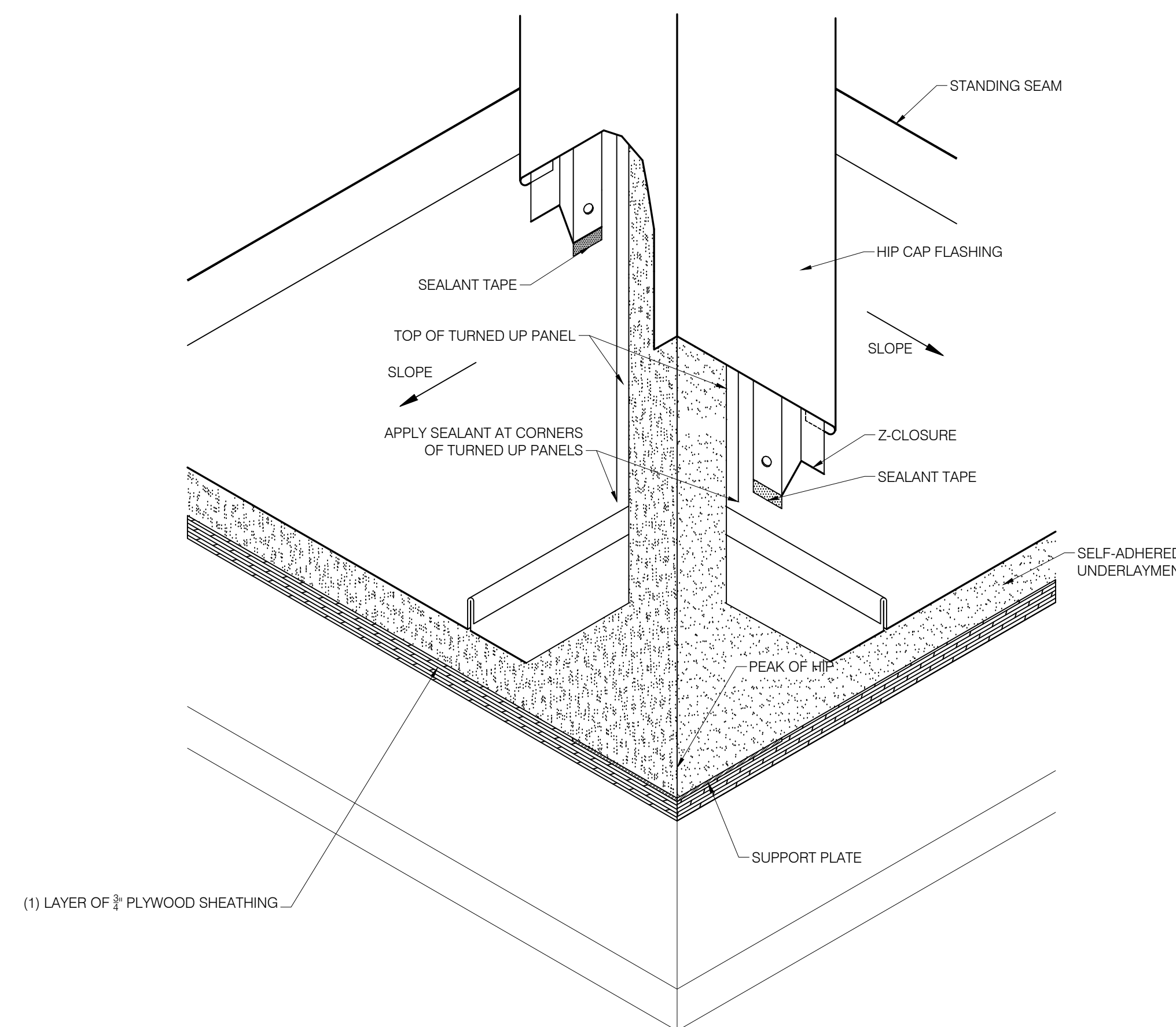
**B**  
 HIP FLASHING - END LAP  
 A3.2 N.T.S.



**C**  
 HIP CAP FLASHING - END LAP  
 A3.2 N.T.S.



**D**  
 HIP CAP FLASHING / SPLICE PLATE ISOMETRIC  
 A3.2 N.T.S.



**E**  
 HIP CAP FLASHING / SPLICE PLATE ISOMETRIC  
 A3.2 N.T.S.

**NOT FOR CONSTRUCTION**  
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 INDIAN RIVER COUNTY  
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DRAWN BY: CAS PROJECT NUMBER: 20-062  
 APPROVED BY: JPA PHASE: 100% FINAL REVIEW DOCS  
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ROOF DETAILS

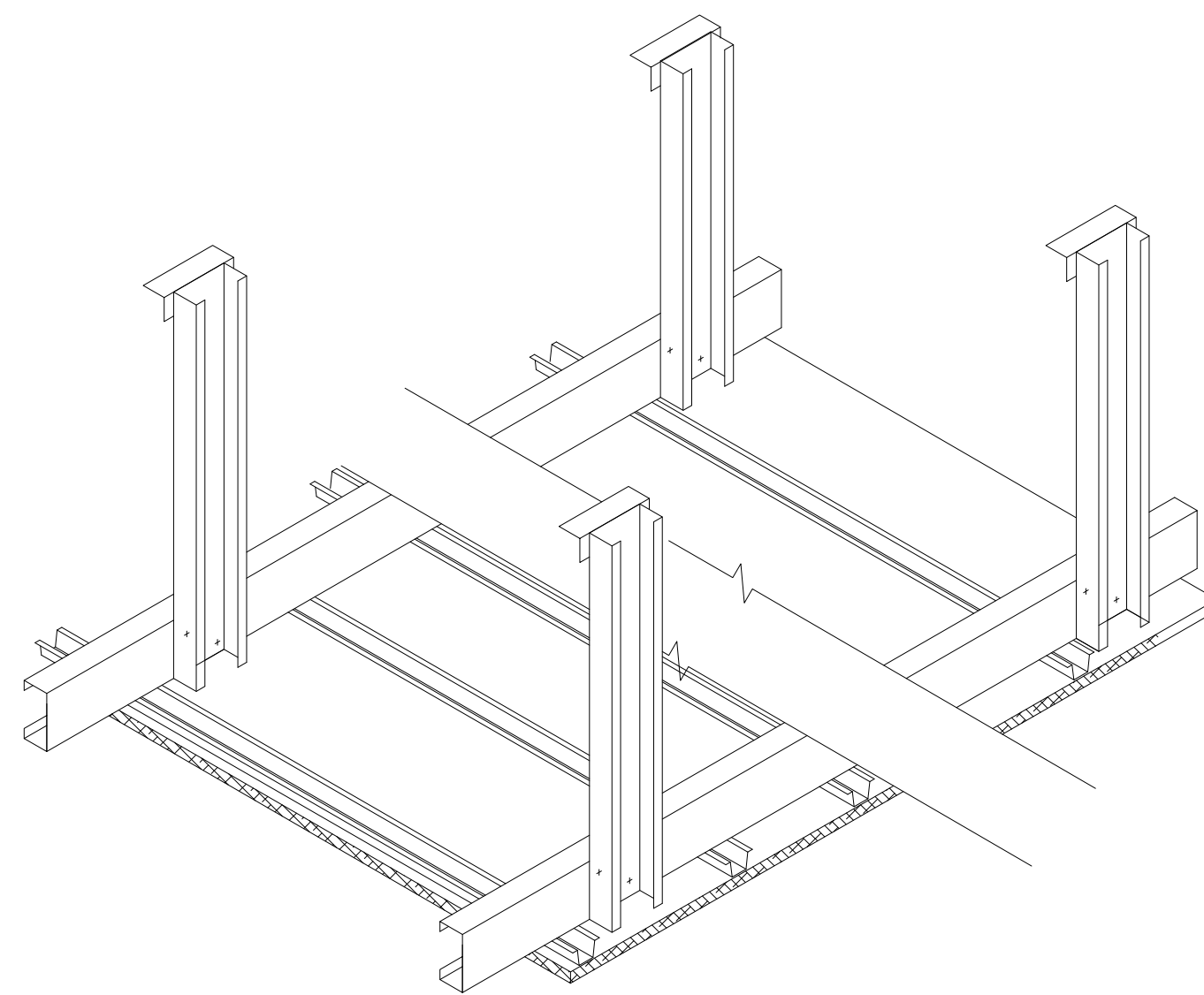
**MATERIAL COMPONENT SCHEDULE**

**ROUGH CARPENTRY**  
 SPECIFICATION SECTION 061000  
**WOOD BLOCKING:** EXTERIOR GRADE FIRE RETARDANT WOOD  
**PLYWOOD SHEATHING:** EXTERIOR GRADE FIRE RETARDANT PLYWOOD.

**STANDING-SEAM METAL ROOF PANELS**  
 SPECIFICATION SECTION 074110  
**BENT METAL PLATE:** 16 GAGE STAINLESS STEEL ALLOY 410.  
**METAL ROOF CLIP:** STAINLESS STEEL, SUPPLIED BY THE METAL ROOFING MANUFACTURER, SECURED TO EXISTING STEEL DECK WITH STAINLESS STEEL FASTENERS AND WITH THERMAL MOVEMENT PROVISIONS.  
**SELF-ADHERED UNDERLAYMENT:** .040" SELF-ADHERED MODIFIED BITUMEN, ASTM D 1970, (W.R. GRACE "ICE & WATER SHIELD HT") ADHERED OVER PRIMED SUBSTRATE BELOW.  
**SUPPORT PLATE:** 16 GAGE GALVANIZED STEEL, G90.  
**METAL ROOF PANEL:** .040" THICK PRE-PAINTED ALUMINUM X 16" WIDE X 2" MIN. HIGH ARCHITECTURAL STANDING SEAM WITH STIFFENING RIBS, MECHANICALLY ATTACHED TO EXISTING PLYWOOD WITH CONCEALED CLIPS.  
**SHEET METAL FLASHING AND TRIM:** .040" THICK PRE-PAINTED ALUMINUM.

**SHEET METAL FLASHING AND TRIM**  
 SPECIFICATION SECTION 076200  
**BENT METAL PLATE:** 16 GAGE, GALVANIZED G90.  
**SUPPORT PLATE:** 16 GAGE, GALVANIZED G90.  
**CONCEALED SPLICE PLATE:** .040" THICK PRE-PAINTED ALUMINUM.  
**DOWNSPOUT:** .050" PRE-PAINTED ALUMINUM.  
**DOWNSPOUT STRAPS:** .063" THICK X 1" PRE-PAINTED ALUMINUM.  
**GUTTER:** SEAMLESS .050" PRE-PAINTED ALUMINUM OR .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.  
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**METAL CLEAT:** 22 GAGE STAINLESS STEEL, TYPE 316.  
**METAL DRIP EDGE:** .040" THICK PRE-PAINTED ALUMINUM.  
**METAL HIP/RIDGE CAP FLASHING:** .050" THICK PRE-PAINTED ALUMINUM.  
**ONE-PIECE TRANSITION FLASHING:** .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

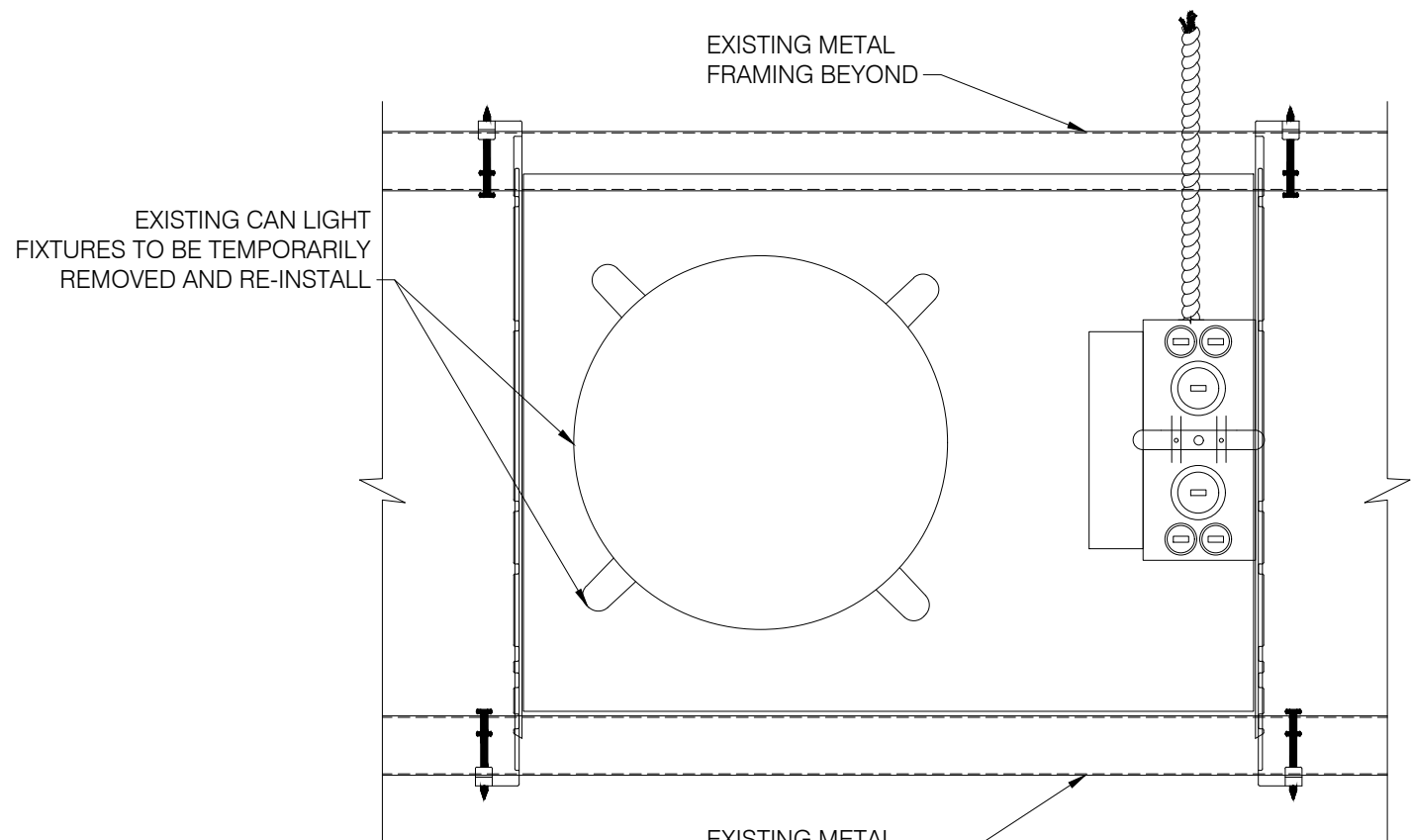
**JOINT SEALANTS** SPECIFICATION SECTION 079200  
**BACKER ROD:** CLOSED-CELL BACKER ROD.  
**BUTYL SEALANT:** ONE-PART GUN GRADE, BUTYL-RUBBER BASED JOINT SEALANT, ASTM C 1311.  
**SILICONE SEALANT:** SINGLE-COMPONENT, NONSAG, NEUTRAL-CURING SILICONE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.  
**SEALANT TAPE:** 1" WIDE BUTYL SEALANT TAPE, APPLIED BETWEEN METAL SURFACES AND UNDERLYING SURFACE.  
**STRUCTURAL SEALANT:** SINGLE-COMPONENT, MOISTURE CURING, GUN GRADE ADHESIVE, "M-1" MANUFACTURED BY CHEM LINK ENGINEERED SYSTEMS.  
**URETHANE SEALANT:** SINGLE-COMPONENT, NONSAG, POLYURETHANE JOINT SEALANT: ASTM C 920, TYPE S, GRADE NS, CLASS 100/50, FOR USE NT. APPLIED TO PRIMED SURFACES.



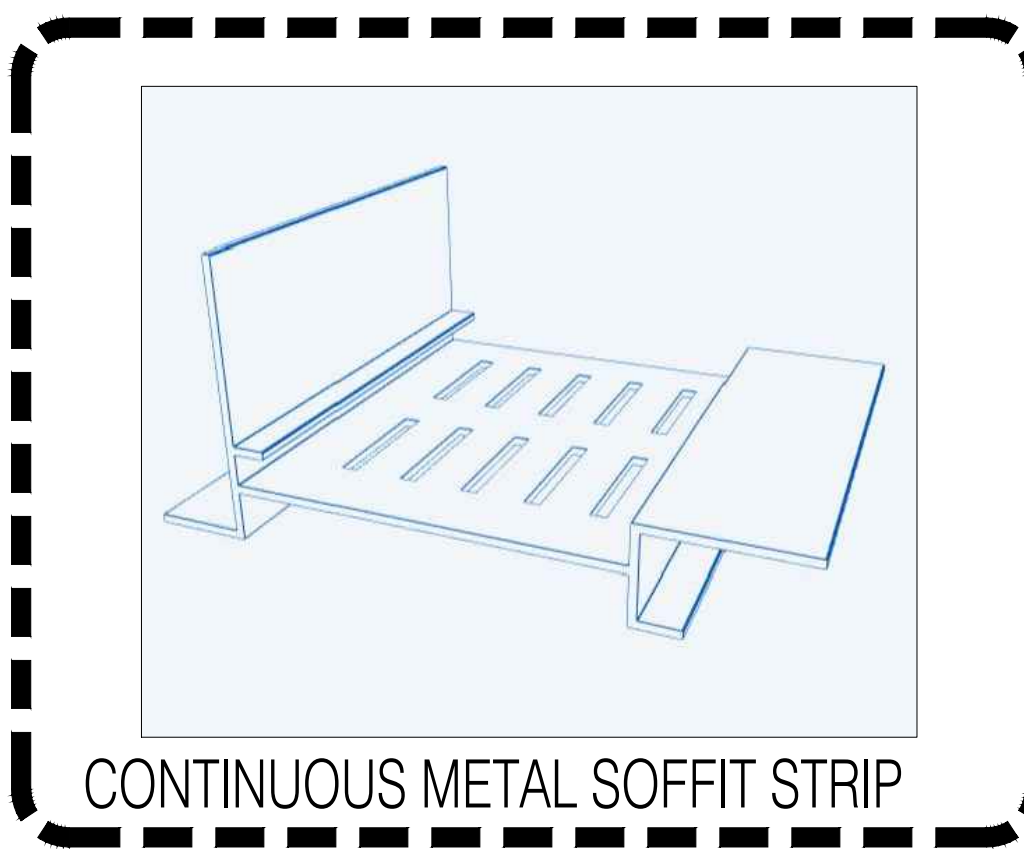
TYPICAL METAL STUD SUSPENDED CEILING



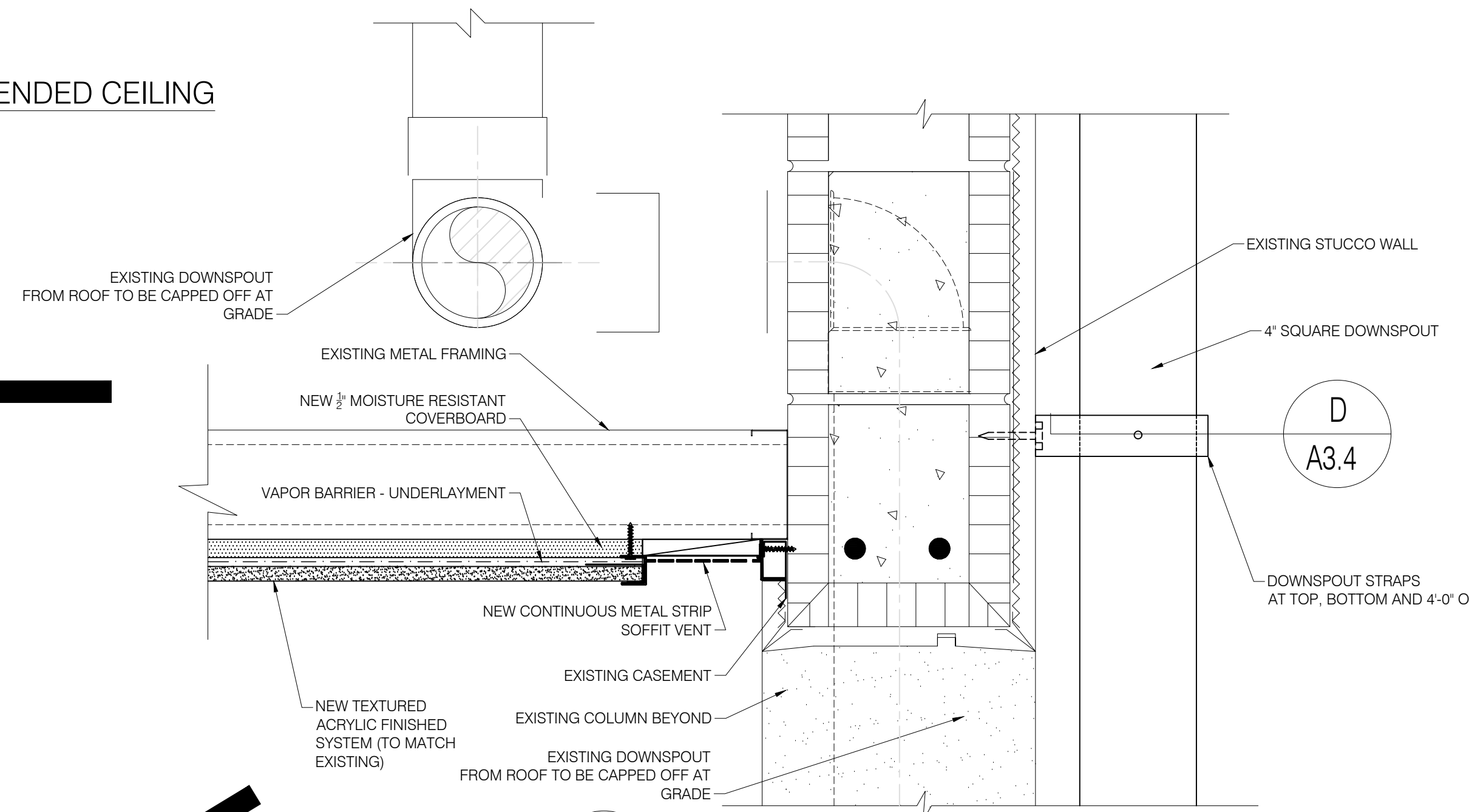
EXISTING SUSPENDED CEILING FRAMING



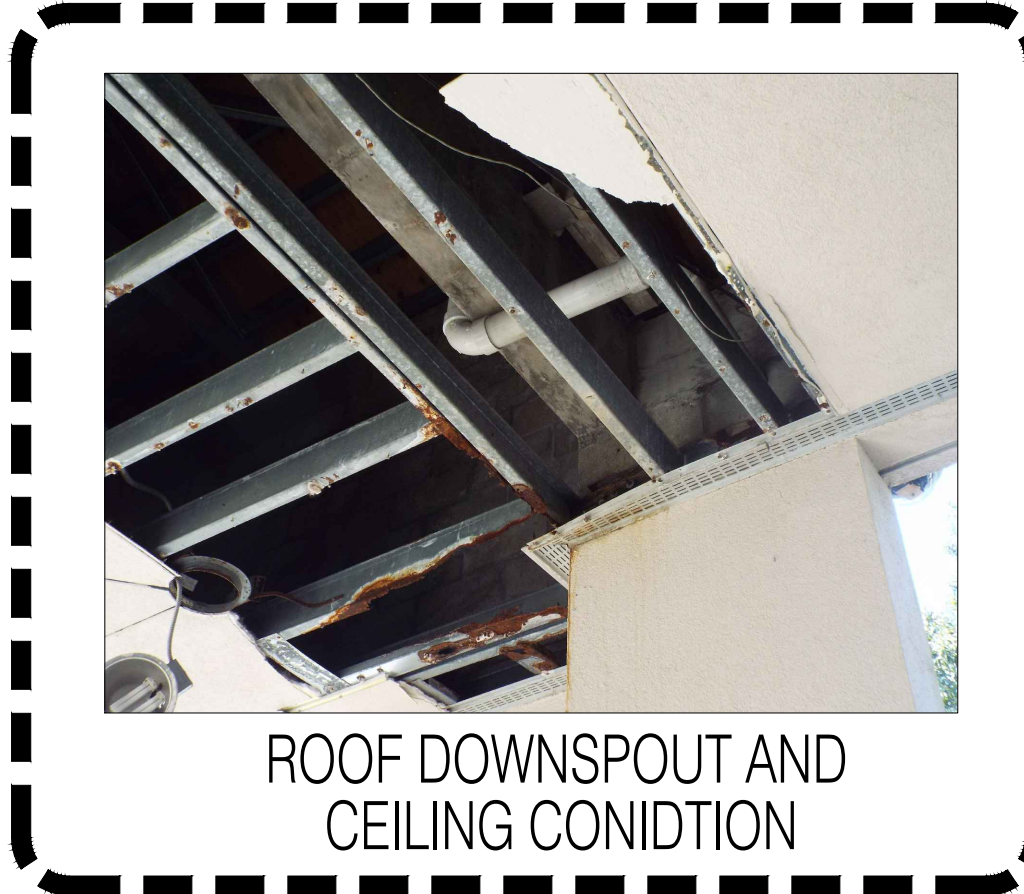
D PLAN VIEW OF LIGHT FIXTURE  
 SCALE: NTS



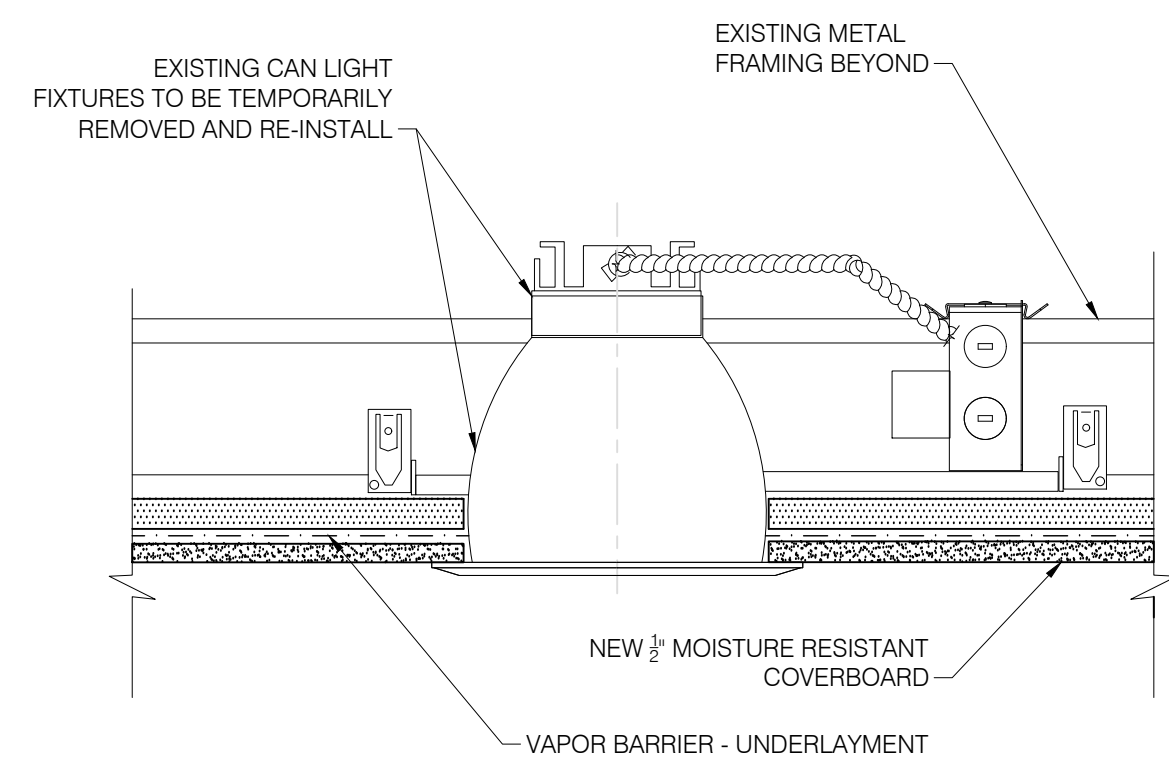
CONTINUOUS METAL SOFFIT STRIP



F PARTIAL CEILING SECTION AT FASCIA  
 SCALE: NTS



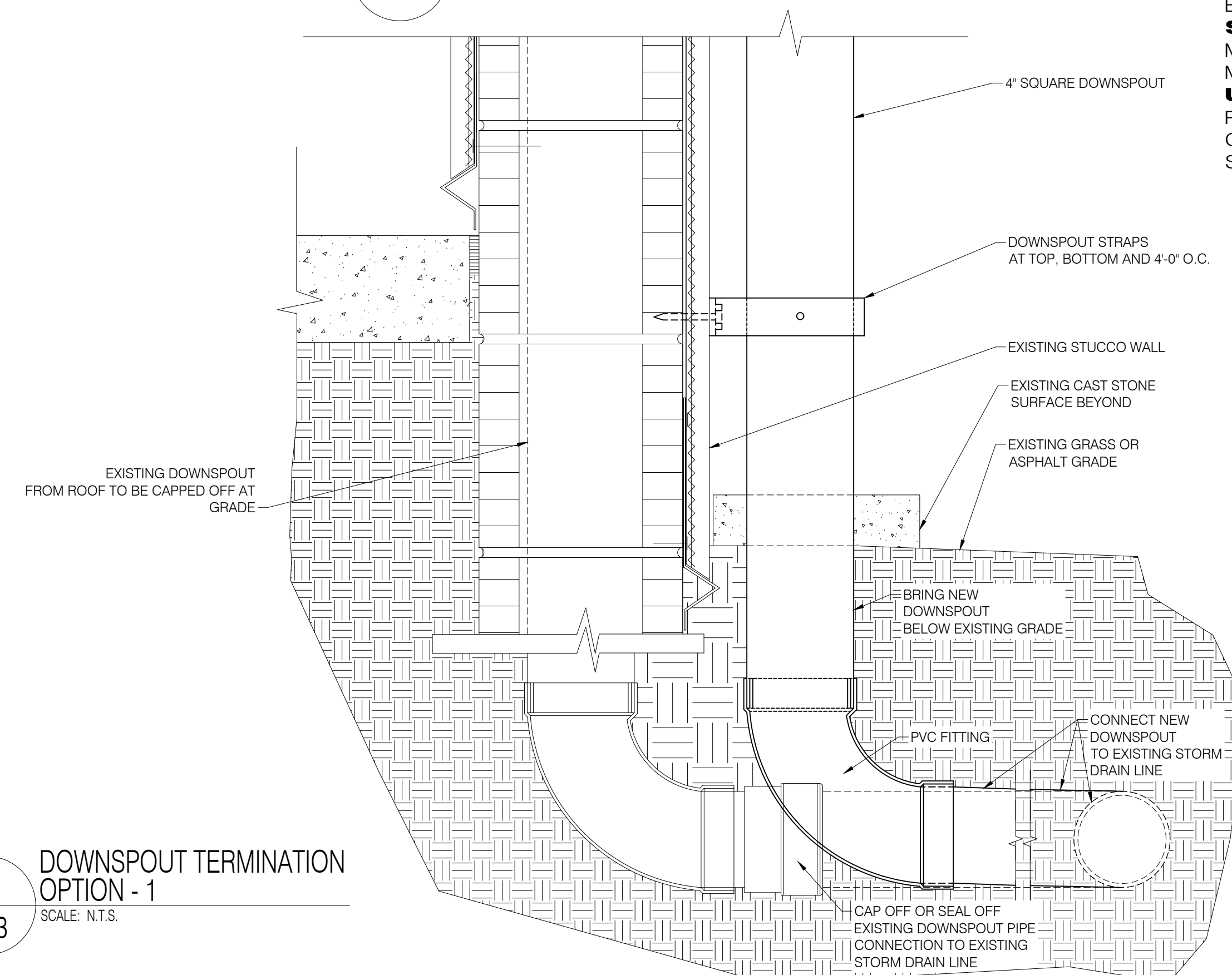
ROOF DOWNSPOUT AND CEILING CONDITON



E SECTION AT NEW LIGHT FIXTURE  
 SCALE: NTS



TYPICAL GAZEBOS CEILING LIGHTS LAYOUT



G DOWNSPOUT TERMINATION OPTION - 1  
 SCALE: NTS

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 VERO BEACH, FLORIDA  
 METAL ROOFING  
 REPLACEMENT PROJECT

JAY AMMON ARCHITECT, INC.  
 3246 LAKEVIEW OAKS DRIVE • LONGWOOD, FLORIDA 32779  
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REVISIONS		
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 APPROVED BY: JPA PHASE: 100% FINAL REVIEW/DCGS  
 ENGINEER: DATE: JANUARY 15, 2021

ROOF AND INTERIOR  
 CEILING DETAILS  
**A3.3**  
 PLOT: N.T.S. SHEET

**MATERIAL COMPONENT SCHEDULE**

**ROUGH CARPENTRY**  
 SPECIFICATION SECTION 061000  
**WOOD BLOCKING:** EXTERIOR GRADE FIRE RETARDANT WOOD.  
**PLYWOOD SHEATHING:** EXTERIOR GRADE FIRE RETARDANT PLYWOOD.

**STANDING-SEAM METAL ROOF PANELS**

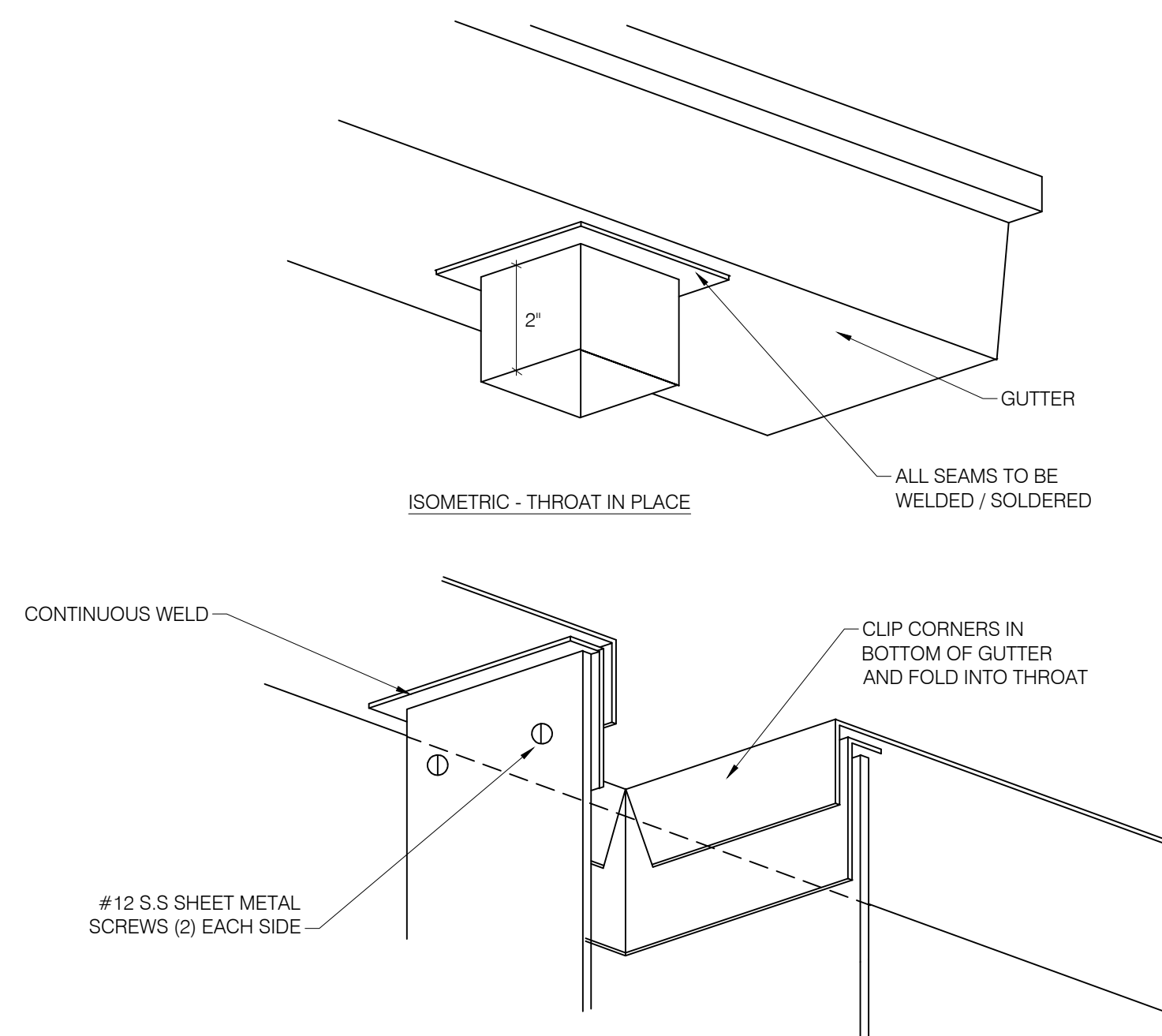
SPECIFICATION SECTION 074110  
**BENT METAL PLATE:** 16 GAGE STAINLESS STEEL ALLOY 410.  
**METAL ROOF CLIP:** STAINLESS STEEL, SUPPLIED BY THE METAL ROOFING MANUFACTURER, SECURED TO EXISTING STEEL DECK WITH STAINLESS STEEL FASTENERS AND WITH THERMAL MOVEMENT PROVISIONS.  
**SELF-ADHERED UNDERLAYMENT:** .040" SELF-ADHERED MODIFIED BITUMEN, ASTM D 1970, (W.R. GRACE "ICE & WATER SHIELD HT") ADHERED OVER PRIMED SUBSTRATE BELOW.  
**SUPPORT PLATE:** 16 GAGE GALVANIZED STEEL, G90.  
**METAL ROOF PANEL:** .040" THICK PRE-PAINTED ALUMINUM X 16" WIDE X 2" MIN. HIGH ARCHITECTURAL STANDING SEAM WITH STIFFENING RIBS, MECHANICALLY ATTACHED TO EXISTING PLYWOOD WITH CONCEALED CLIPS.  
**SHEET METAL FLASHING AND TRIM:** .040" THICK PRE-PAINTED ALUMINUM.

**SHEET METAL FLASHING AND TRIM**

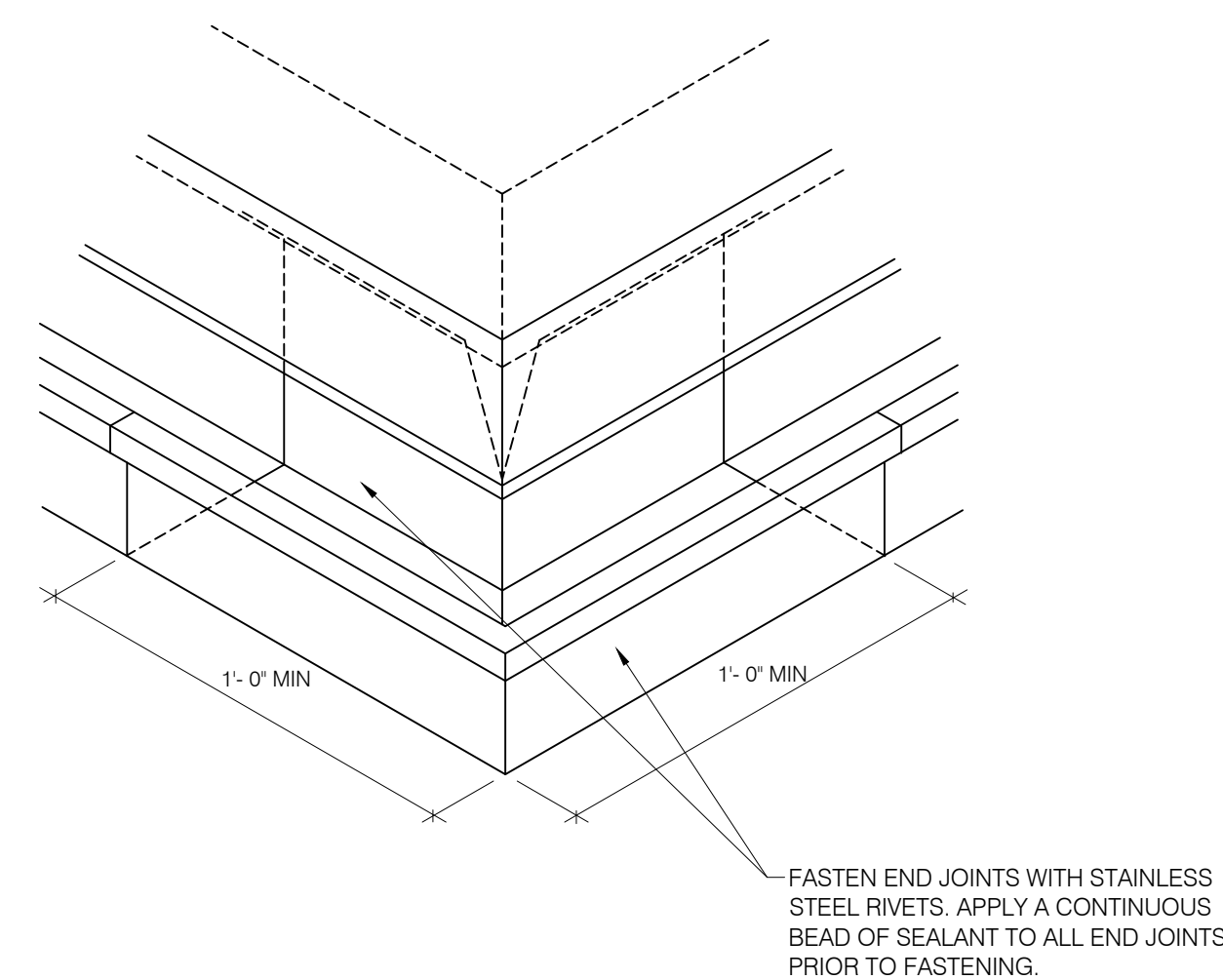
SPECIFICATION SECTION 076200  
**BENT METAL PLATE:** 16 GAGE, GALVANIZED G90.  
**SUPPORT PLATE:** 16 GAGE, GALVANIZED G90.  
**CONCEALED SPLICE PLATE:** .040" THICK PRE-PAINTED ALUMINUM.  
**DOWNSPOUT:** .050" PRE-PAINTED ALUMINUM.  
**DOWNSPOUT STRAPS:** .063" THICK X 1" PRE-PAINTED ALUMINUM.  
**GUTTER:** SEAMLESS .050" PRE-PAINTED ALUMINUM OR .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.  
**GUTTER BRACKET:** 3/16" X 1" PRE-PAINTED ALUMINUM.  
**GUTTER STRAPS:** .050" PRE-PAINTED ALUMINUM.  
**HEAD WALL FLASHING:** .040" PRE-PAINTED ALUMINUM.  
**METAL CLEAT:** 22 GAGE STAINLESS STEEL, TYPE 316.  
**METAL DRIP EDGE:** .040" THICK PRE-PAINTED ALUMINUM.  
**METAL HIP/RIDGE CAP FLASHING:** .050" THICK PRE-PAINTED ALUMINUM.  
**ONE-PIECE TRANSITION FLASHING:** .050" ALUMINUM WITH ALL NON-MOVING JOINTS WELDED AND POST-PAINTED.

**JOINT SEALANTS** SPECIFICATION SECTION 079200

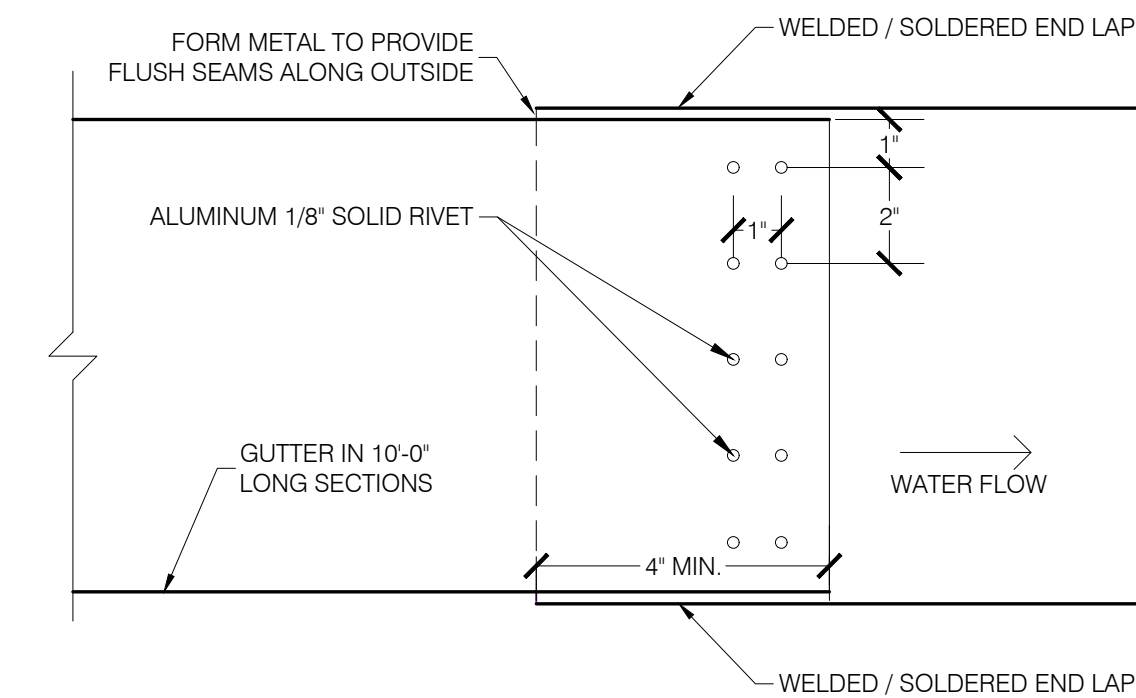
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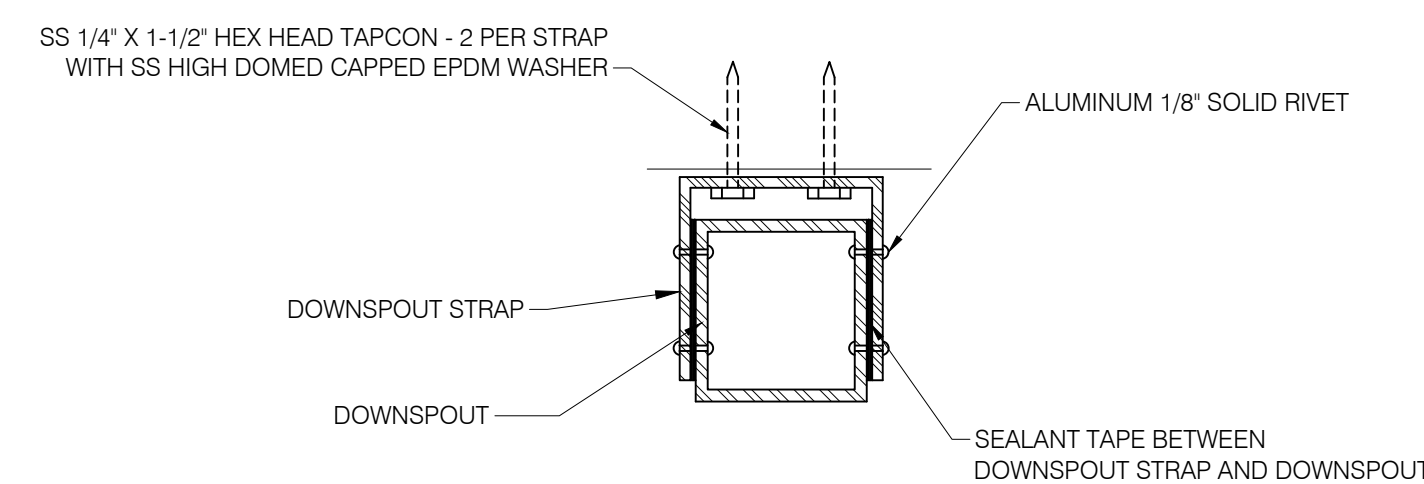
**A** GUTTER DOWNSPOUT CONNECTION  
 SCALE: N.T.S.  
 A3.4



**C** GUTTER OUTSIDE CORNER  
 SCALE: N.T.S.  
 A3.4



**B** GUTTER END LAP  
 N.T.S.  
 A3.4



**D** INTERNAL DOWNSPOUT CONNECTION  
 SCALE: N.T.S.  
 A3.4

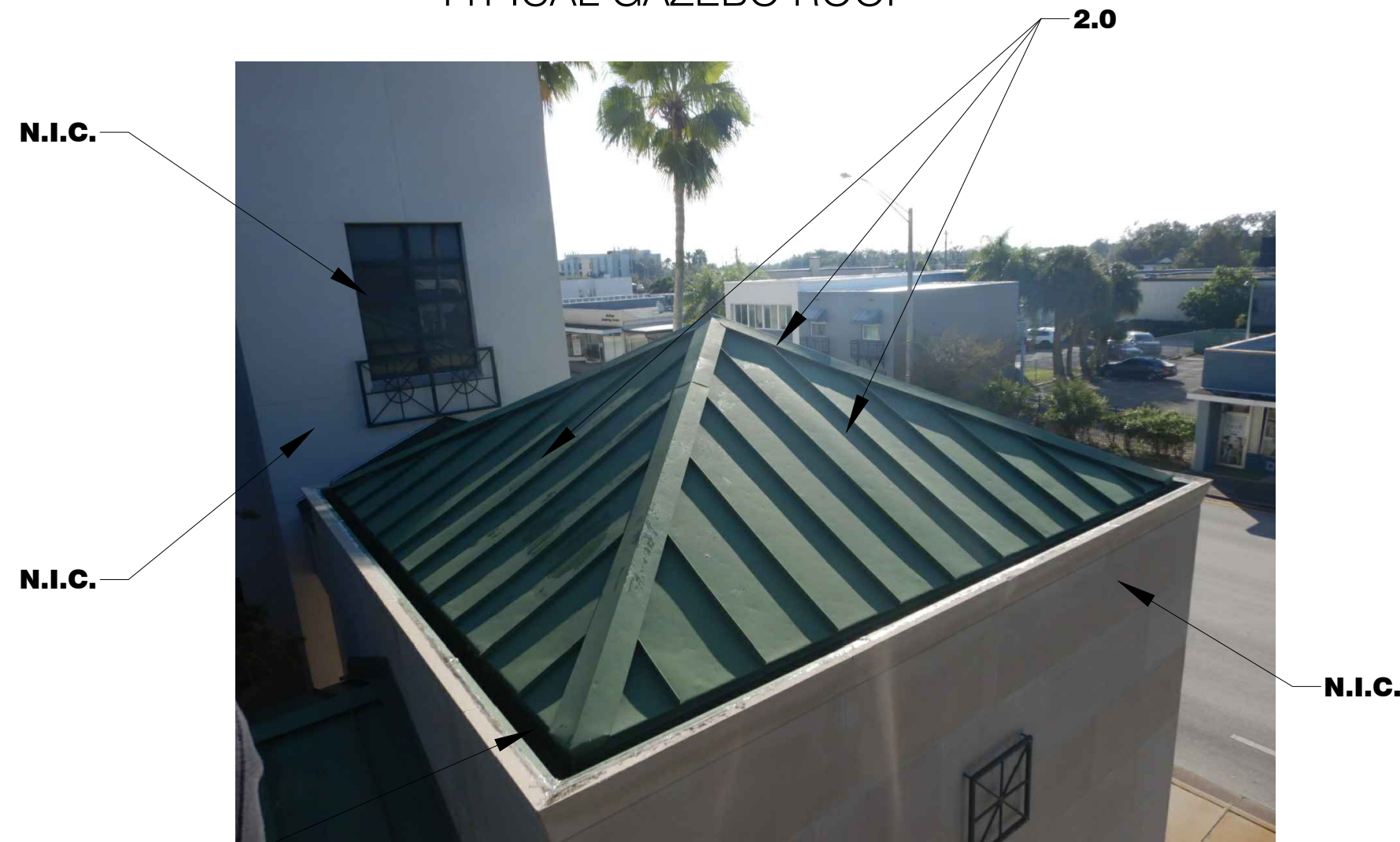
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TYPICAL GAZEBO ROOF



1 PHOTOGRAPH 1  
A4.1

INTERNAL GUTTER WIDTH



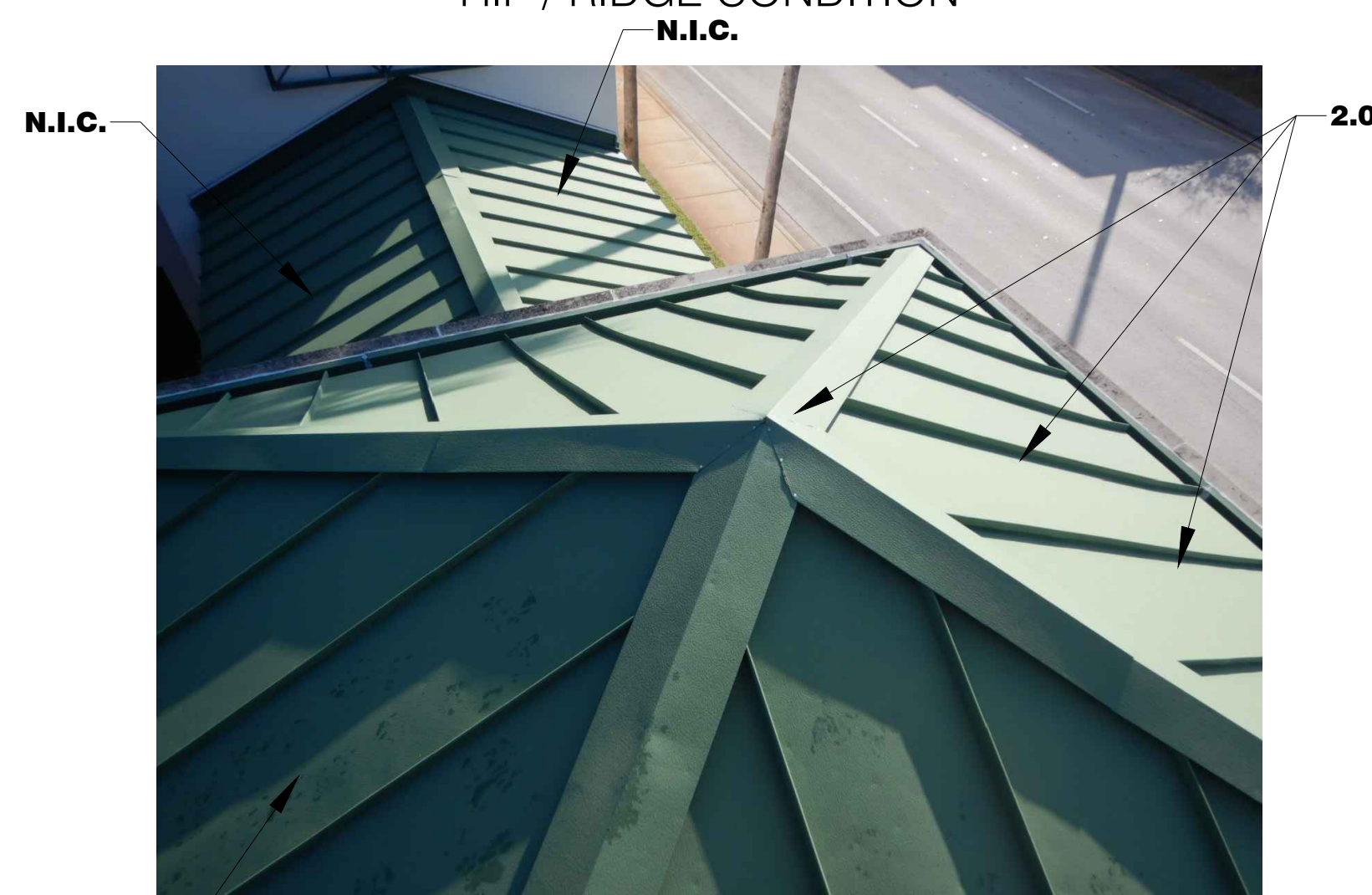
4 PHOTOGRAPH 4  
A4.1

INTERNAL GUTTER DEPTH



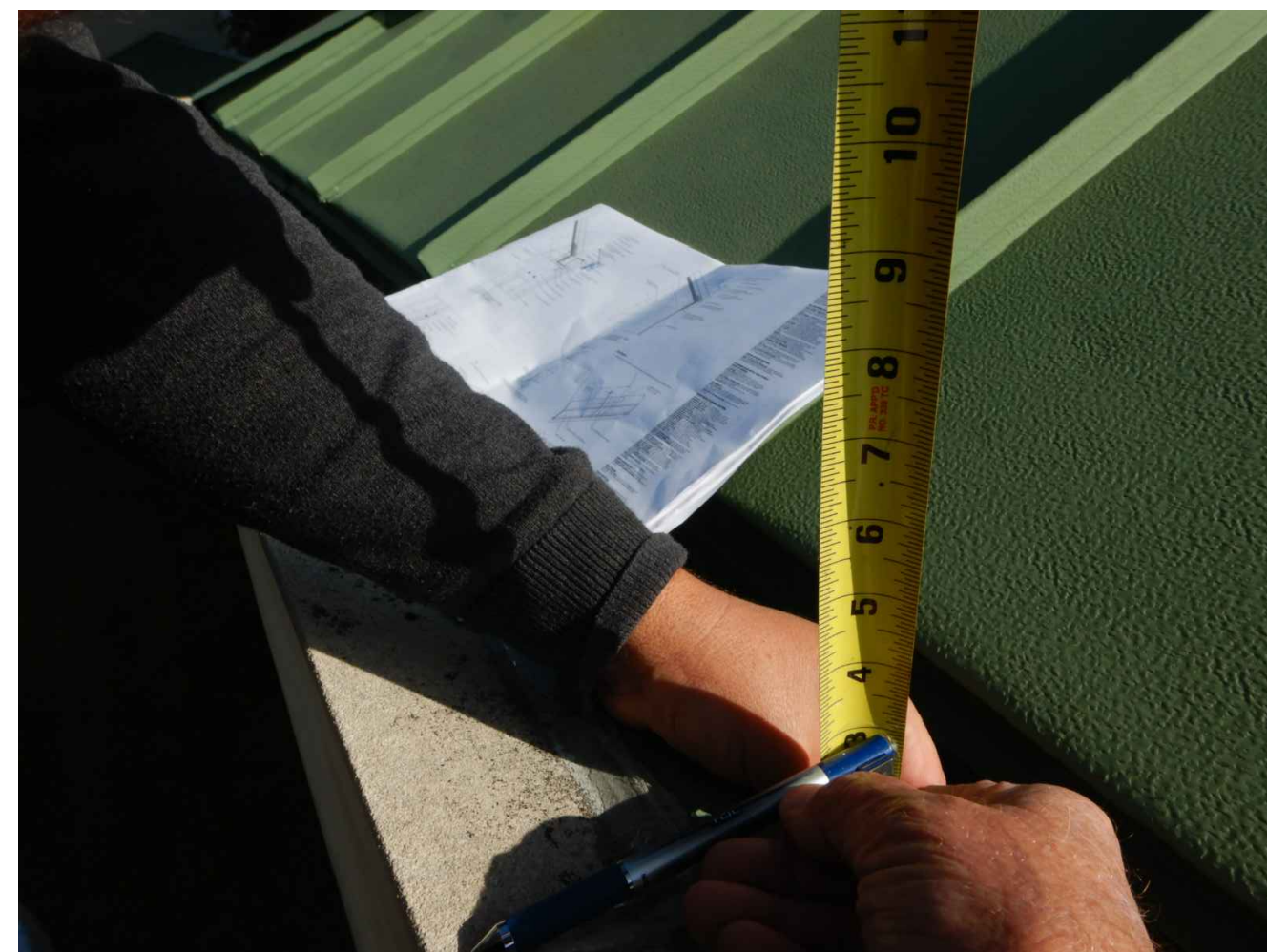
7 PHOTOGRAPH 7  
A4.1

HIP / RIDGE CONDITION



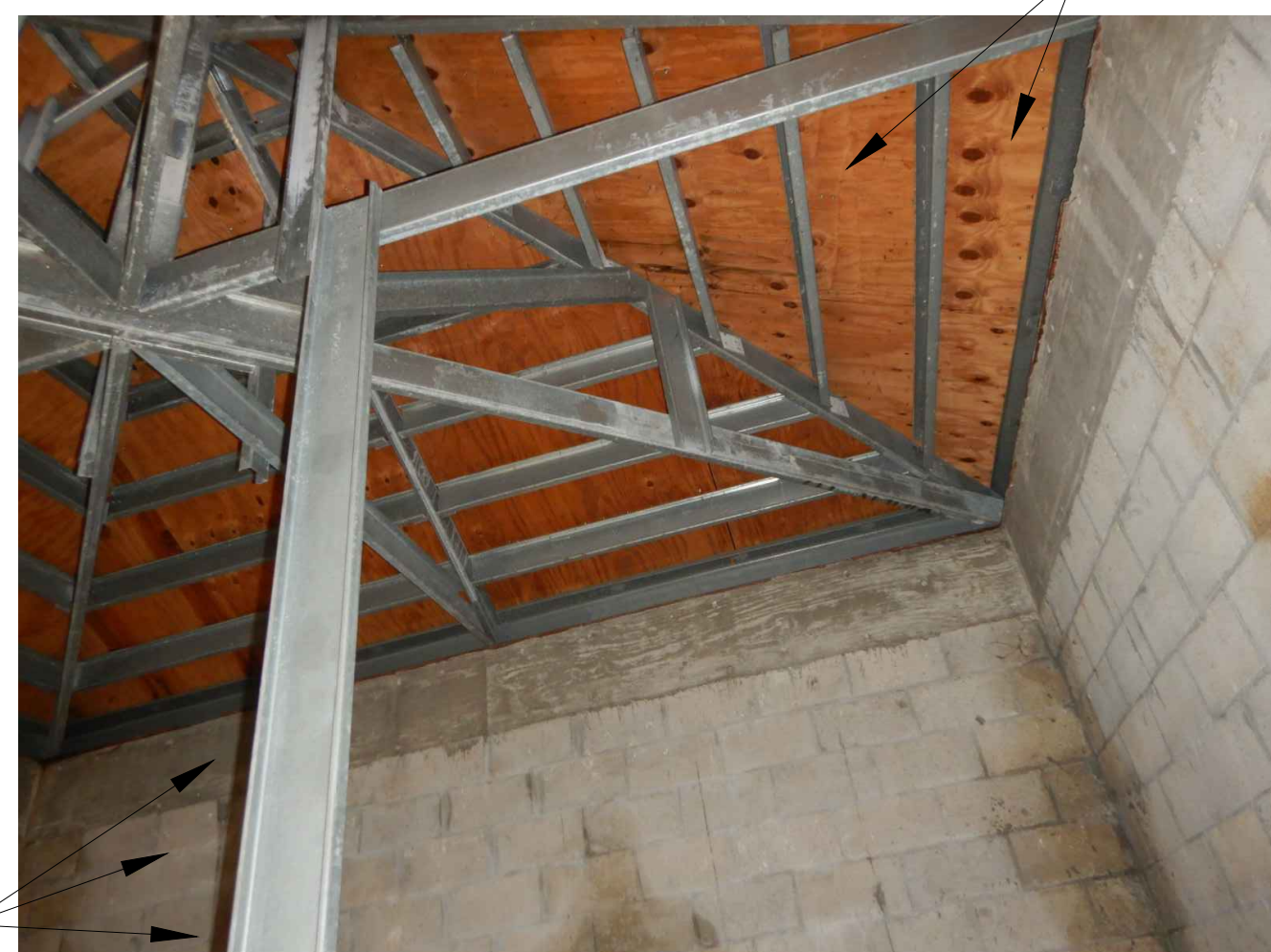
2 PHOTOGRAPH 2  
A4.1

INTERNAL GUTTER DEPTH



5 PHOTOGRAPH 5  
A4.1

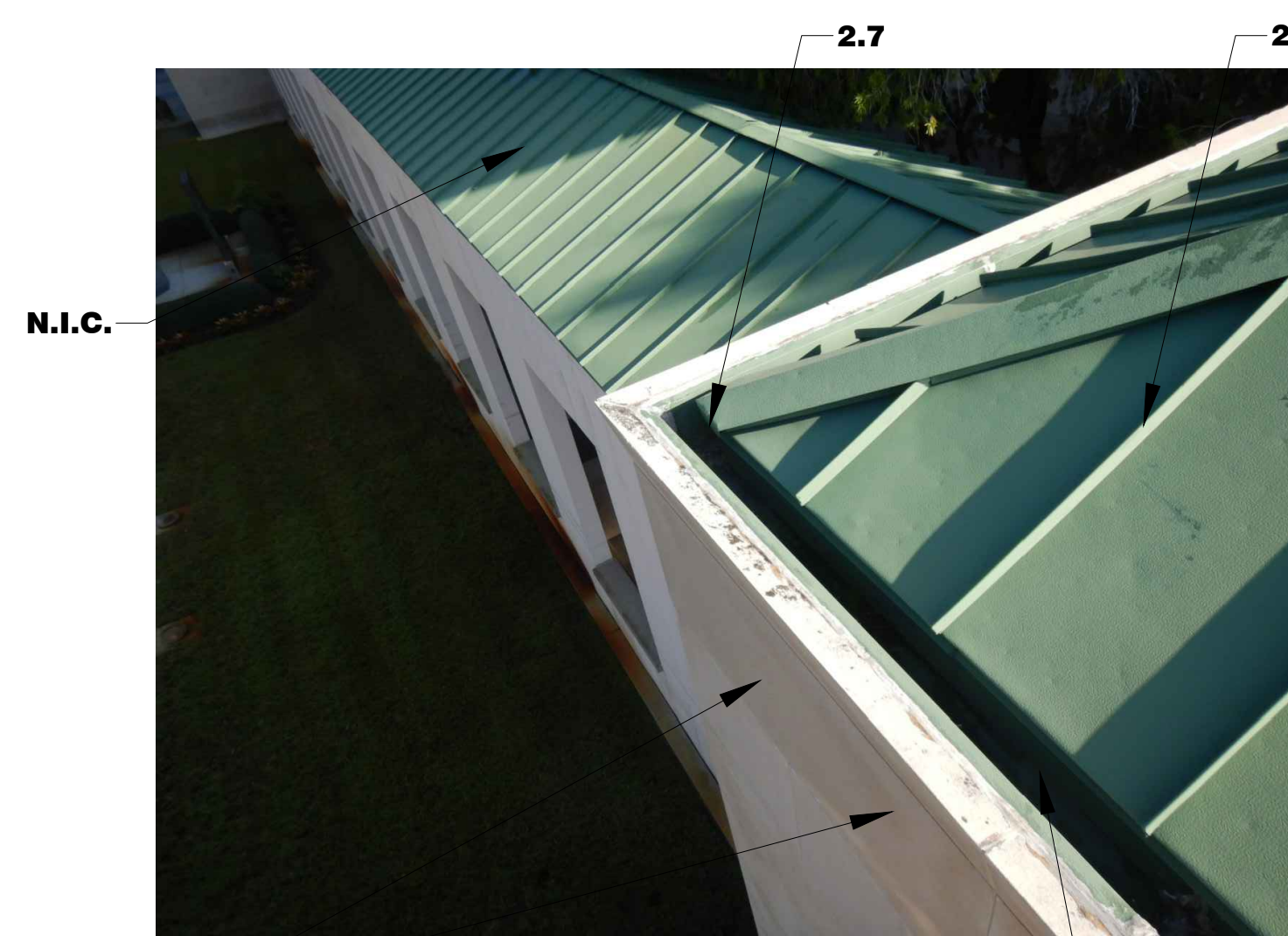
WOOD DECK CONDITION



8 PHOTOGRAPH 8  
A4.1

A PHOTOGRAPHS  
A4.1

BUILDING EXPANSION JOINT - PENTHOUSE WALL



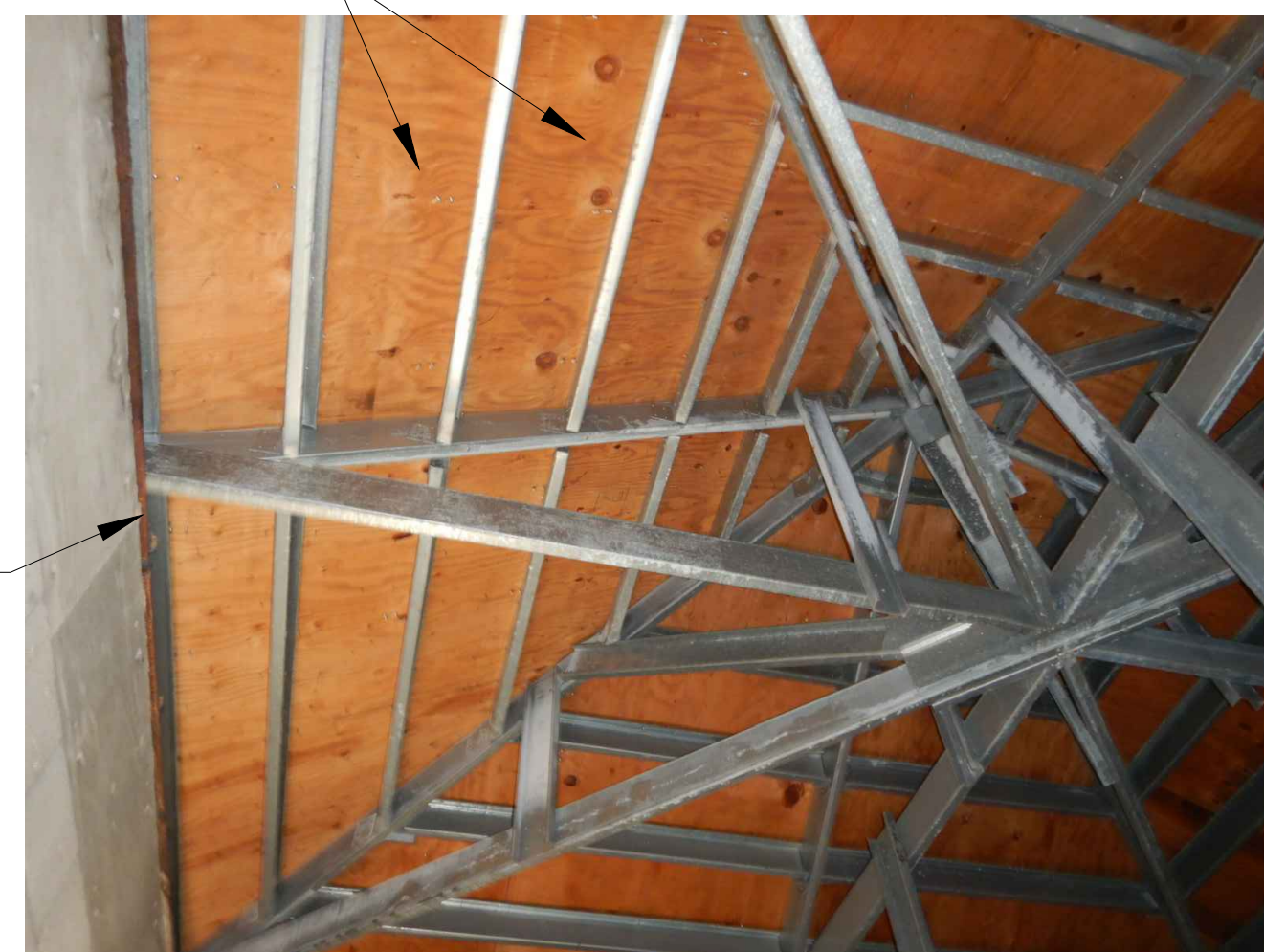
3 PHOTOGRAPH 3  
A4.1

EAVE ROOF EDGE CONDITION



6 PHOTOGRAPH 6  
A4.1

WOOD DECK CONDITION



9 PHOTOGRAPH 9  
A4.1

### SCOPE OF WORK:

THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

- 1.0 GENERAL:
- 1.1 ENGINEERING: CONDUCT PULL TESTS OF THE EXISTING ROOF DECK. PROVIDE ENGINEERING CALCULATIONS PREPARED BY A FLORIDA LICENSED STRUCTURAL ENGINEER INCLUDING THE FASTENER SPACING FOR EACH ROOF WIND ZONE. SUBMIT PULL TEST RESULTS AND THE ENGINEERING CALCULATIONS TO THE ARCHITECT FOR REVIEW PRIOR TO COMMENCEMENT OF THE ROOFING INSTALLATION. SEE DRAWINGS FOR WIND PRESSURES.
- 1.2 SUBSTRATE PREPARATION: PREPARE, REPAIR, OR REPLACE ALL SURFACES AS NECESSARY TO COMPLY WITH REQUIREMENTS INCLUDING BUT NOT LIMITED TO: WIND UPLIFT REQUIREMENTS, MANUFACTURERS RECOMMENDATIONS, BUILDING CODE REQUIREMENTS, AND RELEVANT INDUSTRY STANDARDS. PRIOR TO INSTALLATION OF THE ROOFING ASSEMBLY SUBMIT A WRITTEN APPROVAL TO THE ARCHITECT, FROM THE MANUFACTURER OF THE ROOFING ASSEMBLY THAT ALL SUBSTRATES ARE PROPERLY PREPARED FOR THE INSTALLATION OF THE ASSEMBLY.
- 1.3 WARRANTY: THE NEW ROOFING ASSEMBLY IS TO BE EXAMINED AND APPROVED BY THE MANUFACTURERS OF THE ROOFING ASSEMBLY AND SHALL RECEIVE A 20 YEAR NDL LABOR AND MATERIAL WARRANTY AGAINST DEFECTS AND LEAKS. THE CONTRACTOR SHALL SUBMIT A 5 YEAR NDL WARRANTY FOR ALL WORK AGAINST DEFECTS AND LEAKS UPON COMPLETION OF THE WORK. ADJUST THE SCOPE OF WORK AS REQUIRED TO OBTAIN THIS WARRANTY.

### 2.0 STANDING SEAM METAL ROOF PANEL ASSEMBLY:

- 2.1 DEMOLITION: REMOVE THE EXISTING STANDING SEAM METAL ROOF PANEL COMPONENTS FROM THREE ALL CORNER STANDING SEAM METAL ROOFING ASSEMBLIES. ROOFING ASSEMBLIES INCLUDE BUT ARE NOT LIMITED TO METAL ROOF PANELS, CLIPS, FASTENERS, FLASHINGS, GUTTERS AND UNDERLAYMENTS. REMOVE THE EXISTING PVC RAIN LEADERS FROM WITHIN CEILING CAVITY AND CAP EXISTING RAIN LEADERS.
- 2.2 ROOF DECK PREPARATION: REPLACE ANY DETERIORATED PLYWOOD SHEATHING OR WOOD BLOCKING OBSERVED DURING THE EXISTING ROOF SYSTEM REMOVAL. INCLUDE 320 SQUARE FEET OF 5/8 INCH EXTERIOR GRADE PLYWOOD REPLACEMENT IN BASE BID. INCLUDE 100 LINEAR FEET OF PRESSURE TREATED 2X8 WOOD BLOCKING CUT AND SIZED AS REQUIRED IN THE BASE BID. ALSO, INCLUDE A UNIT COST PER SQUARE FOOT FOR PLYWOOD REPLACEMENT AND A UNIT COST PER BOARD FOOT FOR WOOD BLOCKING REPLACEMENT IN THE BID TO ADJUST THE CONTRACT AMOUNT FOR ACTUAL FIELD CONDITIONS. SEE SPECIFICATION SECTION 06100.
- 2.3 ROOF DECK RESECUREMENT: RE-SECURE ALL EXISTING PLYWOOD DECK TO THE EXISTING METAL TRUSSES WITH THE FOLLOWING FASTENERS:
  - 1). CORNER ZONE: #10 SHEET METAL SCREW AT 4' OC EACH STEEL TRUSS.
  - 2). EDGE ZONE: #10 SHEET METAL SCREW AT 8' OC EACH STEEL TRUSS.
  - 3). FIELD ZONE: #10 SHEET METAL SCREW AT 8' OC EACH STEEL TRUSS.
- 2.4 UNDERLAYMENT: PREPARE ALL ROOF SURFACES TO RECEIVE THE NEW UNDERLAYMENT AS REQUIRED BY THE UNDERLAYMENT MANUFACTURER. APPLY PRIMER OVER ALL EXISTING AND PROPERLY PREPARED UNDERLAYMENT SURFACES. APPLY ONE PLY OF HIGH TEMPERATURE SELF-ADHERED UNDERLAYMENT OVER ALL SURFACES AND OVER DESIGNATED ADJACENT WALL SURFACES. APPLY AN ADDITIONAL UNDERLAYMENT PLY OVER ALL HIP'S AND OVER ALL PRIMED METAL FLASHING FLANGES.
- 2.5 METAL ROOF PANELS: INSTALL A METAL STANDING SEAM ROOF PANEL WITH STIFFENING RIBS USING STAINLESS STEEL CONCEALED CLIPS FABRICATED WITH THERMALLY MOVABLE COMPONENTS. SECURE CLIPS THROUGH THE ROOFING ASSEMBLY AND INTO THE EXISTING STEEL DECK. SEE SPECIFICATION SECTION 074110.
- 2.6 METAL FLASHINGS: INSTALL METAL FLASHINGS WITH FULLY WELDED NON-MOVING SEAMS AND SECURE WITH STAINLESS STEEL FASTENERS AS REQUIRED TO COMPLY WITH THE DESIGNATED WIND PRESSURES.
- 2.7 INTERNAL GUTTERS AND DOWNSPOUTS: INSTALL NEW 1/2 GAUGE BENT METAL PLATES AND PLYWOOD SHEATHING TO CONCEAL EXISTING INTERNAL GUTTER SUBSTRATE. FABRICATE AND INSTALL NEW SLOPED GUTTERS AND DOWNSPOUTS AT THE EXISTING EAVES. REMOVE AND CAP EXISTING PVC DOWNSPOUTS. MATCH THE EXISTING DOWNSPOUT LOCATIONS. INSTALL SLOPED SEAMLESS ALUMINUM GUTTERS. INSTALL ROUND ALUMINUM TUBE DOWNSPOUTS AND THE DISCHARGE END INTO EXISTING STORM LINES WITH A PVC OR ALUMINUM TRANSITION FLASHING.

### 3.0 EXTERIOR CEILINGS AT CORNER GAZEBOS:

- 3.1 PLASTER CEILINGS REPLACEMENT: REMOVE ALL EXISTING INTERIOR PLASTER CEILINGS FROM THE EXISTING STEEL EXTERIOR CEILING FRAMING. REMOVE ALL CORROSION DEPOSITS FROM EXISTING STEEL FRAMING AND COAT PREVIOUS CORRODED STEEL WITH PPG AMERLOK 2 EPOXY COATING. AT DETERIORATED OR DAMAGED STEEL FRAMING, REMOVE AND REPLACE WITH NEW STEEL FRAMING COMPONENTS SECURED WITH STAINLESS STEEL FASTENERS. INSTALL NEW CEMENTITIOUS SHEATHING TO EXISTING AND REPAIRED STEEL FRAMING. INSTALL NEW STO ESSENCE DPR EXTERIOR CEILING FINISH SYSTEM WITH COLOR TO MATCH ADJACENT EXTERIOR CEILINGS. INSTALL NEW PERIMETER VENTS TO MATCH ADJACENT EXTERIOR CEILINGS. SEE SPECIFICATION SECTION 092513.
- 4.0 INTERIOR CEILING ELECTRICAL LIGHTS:
- 4.1 EXISTING EXTERIOR CAN LIGHTS: TEMPORARILY REMOVE ALL EXISTING LIGHT FIXTURES FROM THE EXTERIOR CEILINGS AT ALL GAZEBOS AND REINSTALL ONCE EXISTING CEILING COMPONENTS ARE COMPLETED. ALL ELECTRICAL WORK TO BE COMPLETED BY A STATE OF FLORIDA LICENSED ELECTRICIAN.

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