

 Rockwall INDEPENDENT SCHOOL DISTRICT	Request for COMPETITIVE SEALED PROPOSALS
CSP 2526.02-002 Wilkerson Sanders Memorial Stadium Metal Panel and Plaster Repair Project	

<u>Date</u>	<u>Event</u>
February 20, 2026	1 st Advertisement / Issue Date
February 26, 2026	Pre-Bid Conference – 2:30 P.M. (CST)
March 3, 2026	Last day to submit questions – 12:00 P.M. (CST)
March 6, 2026	Addendum posted to Address Questions
March 12, 2026	Deadline for Responses – 2:00 P.M. (CST)
March 16-20, 2026	RISD Spring Break
March 23, 2026	Recommendation to RISD Board of Trustees
May 22, 2026	Construction Start
July 24, 2026	Project Final Completion

** The District will make every effort to adhere to this schedule; however, dates are subject to change. Any changes will be posted in the form of an addendum on the RISD website. Additional addendums may be posted at the discretion of RISD. Potential respondents are responsible for watching the website for such publications.*

Deliver Sealed Responses to:

Rockwall ISD Administration Building
 Purchasing Department
 1050 Williams Street
 Rockwall, Texas 75087

Rockwall ISD Purchasing Department:

(Contact during Procurement)
 Jana Hunter, MBA, RTSBA
 Director of Purchasing
 972-771-0605
jana.hunter@rockwallisd.org

Rockwall ISD Operations Department:

(Contact during Project)
 Tim Lyssy
 Director of Project Planning and Construction
 972-771-0605
Tim.lyssy@rockwallisd.org

Pre-Bid Information:

February 26, 2026 – 2:30 P.M.
 RISD Administration Bldg.

NOTICE

The Rockwall Independent School District (RISD) is soliciting proposals per the specifications stated elsewhere in this solicitation document. A response to this solicitation is an offer to contract with Rockwall ISD and its members based on the specifications and standard terms and conditions contained in the bid document.

Respondents are cautioned to read this document completely and submit all documents. Each respondent, by submitting a response, represents that he/she has read and understands the proposal. Failure to examine the documents will be at the vendor's risk.

Respondents shall familiarize themselves with existing conditions in the material and labor markets prior to submission of an offer. The fact that an offer is submitted will be construed by the RISD Board of Trustees to indicate that the respondent agrees to carry out the furnishing of products and services in full accordance with the specifications and other contract documents notwithstanding existing material and labor market conditions. A signed, submitted proposal constitutes an offer to perform the work and/or deliver the product(s) and/or services specified in the solicitation.

The vendor should propose his/her lowest and best price. All pricing information shall be entered on the proposal in ink or typewritten. Pricing should include packaging and transportation unless otherwise noted by the vendor.

If the vendor is awarded a contract under this solicitation, the prices proposed by the vendor shall remain fixed and firm during the term of the contract, provided, however that the vendor may offer incentive discounts from this fixed price to the District at any time during the contractual term.

Jana Hunter

Jana Hunter, MBA, RTSBA
Director of Purchasing

February 20, 2026
Release Date



DISTRICT OVERVIEW

Rockwall ISD, situated in Rockwall County, Texas, comprises approximately two-thirds of the county's area and shares the county's boundary lines on the North, West and South. The eastern boundary of the district is an irregular line running through the town of Fate.

The District currently has 21 campuses comprised of 16 elementary schools, 3 middle schools, 2 high schools, a College and Career Academy and an alternative school. The District currently serves approximately 18,500 students and employs approximately 2300 employees.

Rockwall ISD has grown by more than 3,000 over the last decade and is expected to grow by nearly 6,000 students by 2030.

Rockwall ISD's Call to Action: Rockwall ISD empowers learners to embody independence, value relationships, and achieve excellence as thriving members of a dynamic community.

We believe that:

- Collaborative relationships create a culture where learners thrive.
- An effective learning environment is collaborative, safe, challenging, and responsive to the diverse needs of all students.
- Learning is a partnership that engages all members of our community to empower empathetic and responsible citizens for success among themselves.
- All learners deserve to be challenged in preparation for lifelong learning and future success.

Core Values:

- Relationships
- Innovation
- Excellence



Rockwall
INDEPENDENT SCHOOL DISTRICT

Additional information about Rockwall ISD can be obtained on its website: www.rockwallisd.com



CODE OF CONDUCT

Vendors and their suppliers, installers and all others working on Rockwall ISD facilities are required to understand and adhere to the following rules and responsibilities. Failure to comply with the following rules and responsibilities may result in a work's removal from the facilities and/or the termination of all subcontractor's contract. Vendors are responsible for the suppliers and installers adherence to these policies. All personnel working on RISD facilities will indicate their understanding and agreement to comply with these rules and responsibilities by submitting a response to this solicitation.

1. Vendor's employees, installers and suppliers who will be entering the district should check in with the Rockwall ISD designated representative.
2. Vendor's employees, installers and suppliers must wear picture ID badges while on Rockwall ISD property.
3. The use of any tobacco products is prohibited on district property. These prohibited items include but are not limited to cigarettes, cigars, vapes and smokeless tobacco.
4. Drugs and alcoholic beverages are prohibited.
5. The use of vulgar or improper language is prohibited.
6. Unacceptable behavior including physical or verbal intimidation, horseplay, or fighting by any individual on district property will result in immediate remove from property.
7. School requirements may occasionally result in the untimely termination of a subcontractor's daily activities. Vendors are expected to anticipate and understand these circumstances and work with RISD to make-up any scheduling.
8. All contact with student is strictly prohibited.
9. Vendor's employees, installers and suppliers must be properly dressed in work attire which includes the use of proper work shoes and personal protection equipment (as needed).
10. Vendor's employees, installers and suppliers will promptly leave the premises at the end of each work shift or once business purpose has been served.
11. Vendor's employees, installers and suppliers will comply with all state and district rules regarding weapon free zones.
12. Vendor's employees, installers and suppliers shall submit such background information as may be requested by Rockwall ISD to perform criminal background evaluations/investigations.
13. No person who has charges pending or who has been convicted, received probation or deferred adjudication for the following shall be engaged to work on RISD property where students are present: Any offense against a child, any sex offense, any crimes against persons involving weapons or violence, any felony offense against property; or any offense that Rockwall ISD determines to compromise the safety and well-being of staff, students and/or property.



TABLE OF CONTENTS

<u>Description</u>	<u>Page Number</u>
Standard Terms and Conditions	6-24
Specifications	25-143
Vendor Forms and Certifications	144-152
Sample Contract	153-176



STANDARD TERMS AND CONDITIONS

The following instructions by the Rockwall Independent School District are intended to afford potential respondents an equal opportunity to participate in the solicitation process. The following Terms and Conditions are standard for the District and apply to all types of purchasing, including this solicitation. In these Terms and Conditions, the terms *respondent*, *contractor*, *proposer*, *vendor*, and/or *bidder* refer to the person/firm that submits the offer to this solicitation document. The terms *RISD*, *owner*, *district*, and/or *government entity* refer to Rockwall Independent School District.

The documents contained in this solicitation represent the potential agreement between the successful respondent and the school district and supersedes any prior discussions, negotiations, representations, agreements, written or oral.

Any specifications, details, or specific instructions for this solicitation will be found following these Standard Terms and Conditions. Some of the Standard Terms and Conditions may not be applicable to a specific bid or proposal. To the extent each of the terms and conditions is applicable, these shall be deemed to be part of the vendor's bid or proposal documents. If there are specific terms and conditions contained in the bid or proposal documents which are inconsistent with the Standard Terms and Conditions, the specific terms and conditions in the bid and solicitation documents shall control. By submitting a bid or proposal, each vendor or proposer agrees to waive any claims it has or may have against the Owner, the Architect, and their respective officers, trustees, employees, agents, or representatives, arising out of or in connection with the administration, evaluation, recommendation, or selection of any bid or proposal; waiver of any requirements under the bid or proposal documents or contract documents; acceptance or rejection of any bid or proposal; and award of the contract.

The district guarantees no minimum dollar amount in purchase orders against this contract. The scope of this request and requirements of the District as shown in the specifications shall not be considered as binding on the District, and the work actually may be less than or greater than projected.

The RISD can terminate any resulting award for this request with thirty (30) calendar day notice, in the event no funds or insufficient funds are appropriated and budgeted or are otherwise not available in the next fiscal year for obligations herein provided, however, this provision shall not be construed so as to permit RISD to terminate this request in order to enter other contracts or make other arrangements for essentially the same services made the subject of this solicitation.

All bids and proposals from the vendor must remain open for acceptance for sixty (60) days after submittal.



AUTHORITY

The Board of Trustees has delegated to the superintendent the authority to make budgeted purchases for goods and services. Functional area experts, day-to-day contract administrators/managers, teachers, principals, and/or other district employees are not authorized to substantially amend this solicitation document or to substantially modify the subsequent contract. Substantially includes, but is not limited to, changes to delivery dates, place of delivery, and/or specifications that significantly alter the form, fit, and function of a product or the scope of work of a service. Amendments to solicitation documents may be made by the Director of Purchasing. Modifications to contracts/agreements will be made by the Director of Purchasing in accordance with the RISD Board of Trustee guidance, policies, and/or procedures. If a vendor acts on the guidance of a district employee that is not authorized to make changes, the vendor does so at his or her own risk or peril. Also, if a vendor attempts, or gains, a modification/amendment from a district employee that is not authorized to make changes, the vendor does this at his or her own risk or peril and risks the termination of his or her contract/agreement. The functional administrator for this contract is Tim Lyssy, Director of Project Planning and Construction.

CONTACT

Contact between soliciting vendors and user departments during this solicitation process or evaluation process is prohibited. Any attempt by a soliciting firm to contact the department may result in disqualification.

VENDOR QUESTIONS

Any explanation desired or questions by a vendor regarding the meaning or interpretation of these instructions or any other documents included in this solicitation must be requested in writing to RISD, Director of Purchasing, 1050 Williams Street, Rockwall, TX 75087 (jana.hunter@rockwallisd.org) with sufficient time allowed for a reply to reach vendors before the submission of their offers. The email subject line for questions should read: "Questions" followed by the solicitation number and title. The deadline for questions regarding this solicitation is March 3, 2026.

ADDENDA

Written responses to vendor questions shall be presented in the form of an Addendum and posted on the District's website at: <https://www.rockwallisd.com/Page/380>. Respondents should monitor the Purchasing page on the RISD website for such postings. Oral explanations or instructions will not be binding. Rockwall ISD reserves the right to post addendums up to, and including, the business day prior to the deadline. Vendors who submit a bid or proposal without acknowledging receipt of all addenda issued may be deemed to have submitted a bid or proposal not responsive to the solicitation. Failure to receive such addenda does not relieve the vendor from any obligation under the bid or proposal submitted. All formal written addenda become a part of the vendor bid or proposal documents.



PRE-BID MEETING

Any scheduled pre-bid meeting, will be noted on the cover page of this document. In the event a pre-bid meeting is held, attendance is highly recommended to all potential responders. The purpose of this meeting will be to answer any questions regarding the proposal specifications. Proposers are reminded, however, that verbal responses are not binding – only questions answered by formal written agenda will be binding and will be made part of the proposal documents. Proposers must satisfy themselves, upon examination of these specifications in the pre-bid conference, as to the intent of the specifications. After submission of the proposal, no complaint or claim that there was any misunderstanding in regard to items listed for proposal will be entertained from either party.

SUBMISSION

The responsibility for compliance with this solicitation and the subsequent contract shall be with the bidder/respondent. In submitting a response to this solicitation, respondent understands and agrees to be bound by the terms and conditions, provided in this document, which shall be incorporated into any future contracts, agreements, or purchase orders relating to any resulting agreement between the vendor and Rockwall ISD.

Submissions to this request are due by: March 12, 2026 – 2:00 P.M.

Responses must be plainly marked on the outside with the vendor's name and address and the solicitation number. A shipping label has been provided in this packet and its use is highly encouraged. Respondents are instructed to submit (1) one original hard copy (marked ORIGINAL) and (1) one additional hard copy.

Responses must be delivered in a sealed envelope or container and submitted to the Purchasing Department at the RISD Administration Building in sufficient time to be received and time-stamped on or before the published date and time shown within this document or on any subsequent addenda. No other published dates will be binding. Late submissions will not be accepted. Unsigned, unsealed, faxed or late responses will not be accepted. Rockwall ISD will not be responsible for mail delivered from the post office. No oral, telegraphic, telephonic, electronic mail or facsimile transmitted responses will be considered. RISD Purchasing personnel will be the official time keeper for all submissions.

Each vendor shall furnish the information required by the solicitation documents. Proposals should provide straightforward, concise information that satisfies the requirements of this solicitation. Emphasis should be placed on conformity to the instructions and requirements of this solicitation and the completeness and clarity of content. Links to web sites for supporting documentation are not acceptable. Expensive bindings, color displays, and advertising materials are not necessary or desired.

Offers submitted on other than authorized forms or with different terms or provisions may be considered to be non-responsive. The vendor must sign the Offer Form and return with the other certifications provided



herein. Failure to manually sign the offer may disqualify it from being considered. The person signing the documents must initial erasures or other changes. Signatures by an agent are to be accompanied with evidence of his authority unless such evidence has been previously furnished to RISD.

EXCEPTIONS/MODIFICATIONS/WITHDRAWAL

Responses deposited with Rockwall ISD may be withdrawn prior to the time set for opening. A response may not be withdrawn after the submittal deadline. By submitting a response, the proposer warrants and guarantees that the document has been carefully reviewed and checked and that it is in all things true and accurate and free of mistakes. If any exceptions are taken to any portion of the bid or proposal, the vendor must clearly indicate the exceptions taken and include a full explanation. Vendor's failure to identify exceptions or proposed changes will constitute acceptance by the vendor of the bid or proposal as proposed by the District. The District reserves the right to reject a bid or proposal containing exceptions, additions, qualifications, or conditions. Any bid or proposal to the District by the vendor, or contract between the District and the vendor, can be modified or withdrawn only by written agreement between Rockwall ISD and the vendor.

BID OPENING

Submittals may be publicly opened immediately after the response deadline on the same day. Responses received by hand delivery or mail after the stated due date and time will remain unopened. Trade secrets and confidential information contained in response shall not generally be open for public inspection, but RISD's records are a matter of public record.

DISQUALIFICATION

Any bid or proposal that does not contain all required contents required by District may be disqualified. Vendor is strongly encouraged to carefully review its bid or proposal documents prior to submitting their response to ensure all requirements are met. Failure to provide the information requested, in its entirety, may be grounds for disqualification of the bid or proposal. Bidders or proposers may also be disqualified and their bids or proposals not considered, among other reasons, for any of the following specific reasons:

- a. Reason for believing collusion exists among respondents
- b. Reasonable grounds for believing that any respondent is interested in more than one solicitation for the work contemplated
- c. Where the respondent, any sub-contractor or supplier, or the surety on any bond given, or to be given, is in litigation with the District or where such litigation is contemplated or imminent, in the sole opinion of the District
- d. Respondent being in arrears on any existing contract/purchase order or having defaulted or failed to perform in a satisfactory manner on a previous purchase order
- e. Lack of competency as revealed by pertinent facts, including but not necessarily limited to, experience and equipment, financial statement and questionnaires



- f. Uncompleted work that, in the judgement of the District, will prevent or hinder the prompt completion of addition work if awarded.
- g. Where the bidder or proposer has failed to perform in a satisfactory manner on a previous purchase order or contract.

RISD expressly reserves the right to:

- a. Reject any or all proposals
- b. Consider a response irregular if it shows any omissions, alterations of form, additions, or conditions not called for; failure to return all forms and copies; or irregularities of any kind.
- c. Waive any minor informality or deficiency in a bid or proposal if it is determined to be in the best interest of RISD
- d. Award to a single vendor, multiple vendors, each line item separately, or in any combination it determines to be in the best interest of the District. If the Respondent chooses to propose "All or None" or is not agreeable to multiple or split awards, it must be noted as a deviation and included with the response.
- e. Reissue a request
- f. Consider and accept an alternate proposal as provided herein when most advantageous to RISD, including the utilization of other District contracts, contracts awarded by other governmental agencies, other school boards, or cooperative agreements in lieu of any offer received or award made as a result of this proposal, if it is in the best interest to do so.
- g. Cancel the contract with a thirty-day written notice, without prejudice, for factors including, but not limited to, non-availability or non-appropriation of funds
- h. Procure any item or services by other means to meet time-sensitive requirements
- i. As part of the evaluation process, seek additional information from bidders or proposers, interview bidders or proposers, and negotiate the terms of a proposal as allowed by Texas law.
- j. Negotiate price/delivery for service(s)/products(s) identified by this request. The District reserves the right to reject any and all bids that comply with the specifications or to accept a higher bid that complies, when, in judgment of the District, such proposal offers additional value or function, which justifies the difference in price.
- k. Make an award without discussion with any proposer.
- l. Be the sole judge of acceptable proposal responses.
- m. Cancel part or this entire contract at any time during the term without cause. Notification will be submitted in writing no less than thirty (30) days prior to the effective date. Upon receipt of such notice from the District, vendor shall not thereafter incur, and RISD shall have no liability for, any costs under this solicitation that are not necessary for actual performance of the request between the date of the notice of termination for convenience and the effective date of that termination for convenience. In the event of a termination for convenience hereunder, RISD shall have no liability to vendor for lost or anticipated profit resulting there from.



- n. Terminate for default all or any part of this contract if vendor breaches any of the terms hereof or if the vendor becomes insolvent or files any petition in bankruptcy. Such right of termination is in addition to and not in lieu of any other remedies which RISD may have in law or equity, specifically including, but not limited to, the right to collect for damages or demand specific performance. RISD may terminate the contract and debar the vendor for future "bidding" for violations of the federal requirements including, but not limited to, "Contract Work Hours and Safety Standards Act", "Equal Employment Opportunity Act", and "Energy Policy and Conservation Act".

Purchases of service or equipment from a business owned in whole or in part by a Rockwall ISD employee shall be permitted only when approved by the Director of Purchasing and when determination has been made that such equipment or service is not an extension of the employee's regular job responsibility at the District. Failure on part of Proposer to disclose ownership by the District employee may be grounds for disqualification.

EVALUATION

Proposals may be evaluated by an Evaluation Committee comprised of key Rockwall ISD personnel in order to fairly evaluate all qualified proposals. Evaluation by committee members will be combined into one score, which will be compared to the other proposals.

To the extent allowed by law, discussions/negotiations may be conducted with vendors who are deemed to be within the competitive range. If discussions/negotiations are conducted, respondents may be required to submit a best and final offer. The best and final offer may be required as early as 24 hours after completion of discussions/negotiations.

In determining to whom to award a contract and per the Texas Government Code 2269.055, the district will consider and apply any existing laws, including any criteria, related to historically underutilized business and any existing laws, rules or applicable municipal charters, including laws applicable to local governments, related to the use of women, minority, small, or disadvantaged business. The district may also consider the following criteria. At the discretion of the district and in evaluation of this solicitation, point values are indicated after each criteria item.



Govt. Code 2269	Criteria	Weight
(1)	The Price	60
(2)	The offeror's experience and reputation	15
(3)	The quality of the offeror's goods or services	20
(4)	The offeror's proposed personnel	5
(5)	Any other relevant factor specifically listed in the request for bids, proposals or qualifications	0

In determining an award of a contract under Texas Government Code 2269.055, the government entity shall:

- a. Consider and apply any existing laws, including any criteria, related to historically underutilized businesses; and
- b. Consider and apply any existing laws, rules, or applicable municipal charters, including laws applicable to local governments, related to the use of women, minority, small or disadvantaged business.

As provided by Texas Government Code 2269.054 ("Right to Work"), Rockwall ISD will not consider whether the vendor is a member of, or has any other relationship, with any organization, and the specifications are not intended to, and do not, deny or diminish the right of a person to work because of the person's membership or other relationship status with respect to any organizations.

It is the intent and policy of the District not to discriminate on the basis of sex, disability, race, color, or national origin in its programs and/or activities, nor in its employment practices.

LOBBYING

In order to ensure the integrity of the selection process, the vendor's employees, officers, agents, or other representatives shall not lobby or attempt to influence a vote or recommendation related to the vendor's response, directly or indirectly, through any contact with school board members or other district officials involved in the solicitation from the date it is released until the award.

AWARD

Successful vendor(s) may be notified in writing of District's award. No assignment of a bid, proposal, or resulting contract is permitted without the prior notice to and written consent of Rockwall ISD by means of a Notice to Proceed and/or Authorized Purchase Order or signed contract after a recommendation has been accepted by the RISD Board of Trustees. If respondent requires any other agreement, a draft document must be provided with the proposal. No work shall begin, goods procured or delivered, or costs incurred by vendor until the notice is received. Any cost incurred by the vendor prior to the notice shall not be reimbursed by the District.



Tabulations may be requested by contacting the Director of Purchasing via email upon award of a contract based upon approval by the RISD Board of Trustees, if required. Otherwise, information may be released after award of the contract by the Superintendent or designee.

TERM

If this solicitation is for a set time period only, or a single purchase, the award will last until the goods or services have been delivered, completed and accepted by the District. The District reserves the right to acquire reasonable amounts of additional goods/services, as listed in the bid or proposal, subject to verification of the same or lower prices and conditions of the bid or proposal and consistent with Texas law. After the initial contract term, the District reserves the right to extend the contract as indicated in this request.

PRICING

All prices proposed by the vendor, and accepted by the District, shall remain in effect throughout the term of the bid proposal, award, contract, or purchaser order, and cannot be increased during that term without written agreement between the vendor and the Rockwall ISD Board of Trustees or its designee. Rockwall ISD reserves the right to show a preference to any bid or proposal that provides a standard discount percentage for goods or services, or a discount for early payment of any bill to the vendor for its goods or services.

BILLING AND PAYMENTS

Per CH Local of District Policy - The District limits its purchases through the use of properly drawn and authorized purchase orders. Consequently, the District is not responsible for items not ordered via this method. The purchase order number shall appear on all itemized invoices to ensure payment. District employees shall not be permitted to purchase supplies or equipment for personal use through the District's business office without an authorized purchase order. Completing work or providing product without a purchase order may result in non-payment by the district and/or termination of awarded contract.

The District is a tax-exempt entity under Texas law. Vendor should not include tax on its bid, proposal, quote or invoice to the District. Vendor shall submit itemized invoices on each purchase order in a timely manner following delivery.

Invoices shall indicate the purchase order number and be submitted to RISD Business Office, Attn: Accounts Payable, 1050 Williams Street, Rockwall TX 75087 or emailed to accountspayable@rockwallisd.org.

The vendor shall make no charge or addition to the accepted price for delivering, placing, or invoicing product(s). Payment shall not be due until all items on the purchase order have been received by RISD (unless specified in the specifications) and the above instruments are submitted and the invoice has been accepted by RISD. All prices shall be F.O.B. destination.

District shall make all payments under this Agreement from current revenues available. In the event no funds,



or insufficient funds due to non-appropriation, are available at any time or during any fiscal period when such payment is due, in accordance with Local Government Code Ann. §271.903, District shall notify vendor of such occurrence and this Agreement shall terminate on the last day of the fiscal period for which payment was received without penalty or expense to District of any kind whatsoever. However, District shall be responsible to remit payment for all services provided by the Vendor to the District prior to the termination date.

GOODS

The vendor warrants that it owns and is legally able to transfer ownership of the goods or materials that are the basis of the solicitation to Rockwall ISD. The vendor warrants that it owns a clear title free of any materialman's, suppliers, or other type of liens, mortgage, encumbrance, or other security interest in the goods or materials supplied to Rockwall ISD. Any breach to this warranty of title shall be considered a default by the vendor and good cause for termination of the award, contract, or purchase order.

Strict conformance with the standards, specifications, and requirements of the bid or proposal is required by Rockwall ISD. Unless otherwise stated in the specifications, all supplies and components to be provided shall be new (not used or reconditioned, and not of such age or so deteriorated as to impair their usefulness or safety), of current production, and of the most suitable grade for the purpose intended. If at any time during the term of an awarded agreement the vendor believes the furnishings of supplies or components which are not new is necessary or desirable, it shall notify the District immediately, in writing, including the reasons and proposing any consideration which will flow to the District if authorization to use such supplies or components is granted.

If a brand name or specific model name is shown in the proposed specifications or bid form, such usage is to indicate an acceptable standard which must be considered if bidding better or equivalent products. Any bid or proposal for such better or equivalent products shall provide significant information on the products to allow the District to determine whether or not they are acceptable.

Any proposed substitution of goods or services to be supplied by the vendor shall require prior written acceptance by the District, unless stated otherwise. The vendor shall be bound to provide all proposed goods or services if its bid or proposal is accepted and awarded by Rockwall ISD, and no changes shall be acceptable unless agreed to in writing by the District.

Vendor assumes all liability for delivering non-compliant goods. The District reserves the right to reject any tender of non-compliant goods and shall require the vendor to take possession of such defective goods at no cost to District, and replace them with compliant goods at no cost to District, unless Rockwall ISD elects, in writing, to accept such non-compliant goods. Such non-confirming goods shall constitute good cause for termination of the contract, purchase order, or award, if not accepted by written agreement by Rockwall ISD or cured by the vendor.



Respondent agrees to ascertain whether goods manufactured in accordance with the specifications will give rise to the rightful claim of any third person by way of infringement or the like. If vendor is of the opinion that an infringement or the like will result, he/she will notify RISD to this effect in writing within two weeks after the signing of this a contract. If RISD does not receive notice and is subsequently held liable for the infringement or the like, vendor will indemnify RISD for any damages due to such claim. If vendor, in good faith, ascertains that production of the goods in accordance with the specifications will result in infringement or the like, this document shall be null and void. RISD may pay vendor for the reasonable cost (as determined by RISD) of his/her search as to infringements.

Respondent warrants that the product sold to RISD shall conform to the standards promulgated by the federal government including, but not limited to, the U.S. Department of Labor under the Occupational Safety and Health Act (OSHA) and the Consumer Product Safety Commission (CPSC). In the event the product does not conform to applicable safety standards, RISD may return the product for correction or replacements at the vendor's expense. In the event vendor fails to make the appropriate correction within a reasonable time (i.e., 2 weeks) correction may be made by RISD at vendor's expense.

The terms of the agreement are "no arrival, no sale". The title and risk of loss of the goods shall not pass to the District until the District actually receives and takes possession of the goods/services at the point or points of delivery. The District shall have the right to inspect the goods at delivery before accepting them.

The vendor shall be responsible for replacing or correcting any defective product or service supplied to the District in response to the Solicitation at no cost to Rockwall ISD.

DELIVERY

Performance of service/delivery of goods shall be made to the location identified on each purchase order or resulting contract. All work performed, as herein shown under the specifications, shall be of the highest quality workmanship and shall in every respect meet or exceed the industry standards for this type of good/service. Every tender or delivery of goods must fully comply with all provisions of this contract as to time of delivery, quality and the like. All delivered equipment, materials or merchandise must be new, unused, free of liens, and in the manufacturer's original packing unless otherwise specified. If a tender is made which does not fully conform, this shall constitute a breach of the contract, purchase order, and award, and the vendor shall not have the right to substitute a conforming tender, provided, where the time for performance has not yet expired, the vendor may reasonably notify the district of his intention to cure and may then make a conforming tender within the contract time but not afterward.

The vendor will package goods in accordance with good commercial practice. Each shipping container shall be clearly and permanently packed as follows: (a) vendor's name and address;(b) Consignee's name, address and purchase order or purchase release number and the supply agreement number if applicable; (c) Container number and total number of containers, e.g., box 1 of 4 boxes; and (d) the number of the



container bearing the packing slip. The vendor shall bear the costs of packaging and delivery at reasonable costs unless otherwise provided. Acceptance by the District of any delivery shall not relieve the vendor of any guarantee or warranty, express or implied, nor shall it be considered an acceptance of material not in accordance with the specifications and shall not waive the District's right to request replacement of defective material.

NOTICE OF DELAYS

Whenever the vendor encounters any difficulty which delays or threatens to delay timely performance, the vendor shall immediately give notice, in writing, to the District, including all relevant information. Such notice shall not in any way constitute a basis for an extension of the delivery or performance schedule or be construed as a waiver by Rockwall ISD of any right or remedies to which it is entitled by law or pursuant to provisions herein. Failure to give such notice, however, may be grounds for denial of any request for an extension of the delivery or performance schedule because of such delay.

SAFETY DATA SHEET (SDS)

The vendor shall provide, at no cost to DISTRICT, at least one (1) copy of any Safety Data Sheet (SDS) applicable to any goods or materials to be supplied by the vendor in response to this solicitation.

WARRANTIES

Warranties for goods and services shall be a minimum of one (1) year from completion of the bid or proposal. If goods or services to be provided are of comparable quality, the District may give preference to longer warranties when evaluating the bid or proposal.

The price to be paid by Rockwall ISD shall be that contained in vendor's response, which the vendor warrants to be no higher than the vendor's current prices on orders by others for products of the kind and specification covered by the agreement for similar quantities under similar or like conditions and methods of purchase. In the event the vendor breaches this warranty, the prices of the items shall be reduced to the vendor's current prices on orders by others or, in the alternative, Rockwall ISD may cancel this contract without liability to the vendor for breach or the vendor's actual expense.

The vendor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for commission, percentage, brokerage, or contingent fee excepting bona fide employees of bona fide established commercial or selling agencies maintained by the vendor for the purpose of securing business. For breach or violation of this warranty, Rockwall ISD shall have the right in addition to any other right or rights to cancel this contract without liability and to deduct from the contract price, or otherwise recover the full amount of such commission, percentage, brokerage or contingent fee.

The vendor shall not limit or exclude any implied warranties and any attempt to do so shall render this contract



voidable at the option of the District. The vendor warrants that the goods furnished will conform to the specifications, drawings and descriptions listed in the bid invitation and to the sample(s) furnished by the vendor, if any. In the event of a conflict between the specifications, drawings and descriptions, the specifications shall govern. All equipment items awarded as a result of the bid will be covered by an all parts and labor warranty, including any/all transportation charges, for a minimum period of one (1) year.

CONTRACTORS

Persons providing services on a project ("subcontractor" in Texas Labor Code 406.096) include all persons or entities performing all or part of the services the contractor has undertaken to perform on the project, regardless of whether that person contracted directly with the contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity that furnishes persons to provide services on the project.

Services include, without limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to a project. Services do not include activities unrelated to the project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.

The proposer declares that in the event of the award of a contract to the undersigned to this offer will comply with the Immigration Reform & Control Act of 1986.

Respondents will provide their own tools/equipment required/expected of their craft/trade. The contractor is responsible for permits and fees required and compliance with all local, state, and federal rules, regulations, and statutes. The job site shall be in a clean, safe and orderly condition at all times. It shall be the contractor's responsibility to remove all debris, materials, and equipment from the job site upon completion of the work specified.

The contractor shall agree to waive all right of subrogation against the District, its officials, employees and volunteers for losses from work performed by contractor for the District.

The contractor shall hold the District harmless from and indemnify it against all liability, including attorney's fees, which may arise from and accrue directly from the performance of the work or any obligation of Contractor or failure of Contractor to perform any work or obligation provided for in this Agreement.

INSURANCE

The successful respondent, at his/her own expense, shall provide and maintain insurance with fiscally sound firms (at least an AM Best rating of A-) authorized to do business in Texas. Insurance requirements also apply to any sub-contractor(s) in the event that any work is sublet. The contractor is responsible for making



sure the sub-contractor(s) meets the minimum insurance requirement limits as by law.

Insurance must remain in effect for the duration of this contract. Should any policy be canceled before the expiration date, the issuing company will mail thirty (30) days written notice to the certificate holder, RISD. The contractor shall notify the district in writing by certified mail or personal delivery, within ten days after the contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the project. If the coverage period shown on the contractor's current certificate of coverage ends during the duration of the project, the contractor must, prior to the end of the coverage period, file a new certificate of coverage with the district showing that coverage has been extended.

Vendor may be required to provide a copy of insurance coverage to RISD. If the district is to be named as an additional insured on the vendor's insurance coverage, the certificate indicating this should be provided within ten (10) calendar days from date of award. The bid/proposal number and title should be noted in the "Description of Operations/Locations/Vehicles/Special Items" block of the certificate and the "Certificate Holder" block of the certificate should read, "RISD, Attn: Director of Purchasing, 1050 Williams Street, Rockwall, TX 75087." Additional insurance requirements may be required for construction and/or services projects and will be identified elsewhere in this document.

The contractor represents to the district that all employees of the contractor who will provide services on the project will be covered by statutory workers' compensation coverage for the duration of the project, that the coverage will be based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code 401.011 (44) for all employees of the contractor, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance regulation. Providing false or misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

The contractor shall post on each project site a notice, in the text, form, and manner prescribed by the Texas Workers' Compensation Commission, informing all persons providing services on the project that they are required to be covered, and stating how a person may verify coverage and report lack of coverage.

A copy of a certificate of insurance, a certificate of authority to self-insure issued by the commission, or a coverage agreement (TWCC-81, TWCC-82, TWCC-83, or TWCC-84), showing statutory workers' compensation insurance coverage for the person's or entity's employees providing services on a project is required for the duration of the project. Duration of the project includes the time from the beginning of the work on the project until the project has been completed and accepted by the district.

The contractor shall retain all required certificates of coverage for the duration of the project and for one



year thereafter. The contractor's failure to comply with any of these provisions is a breach of contract by the contractor that entitled the governmental entity to declare the contract void if the contractor does not remedy the breach within ten days after receipt of notice of breach from the governmental entity.

TERMINATION

Vendor shall be considered in default, and such default shall be grounds for the District to terminate any resulting award for this solicitation and/or pursue any and all relief, at law or in equity, to which it may be entitled by reason of such default, in the presence of a failure to perform any of its obligations under any resulting agreement and fails to correct such non-performance within ten (10) calendar days of written notice from the District to do so. In case of default of the vendor, RISD reserves the right to terminate the purchase order. In case of default of three (3) purchase orders, the district reserves the right to terminate the contract and suspend future business with the vendor.

Rockwall ISD shall have the right to terminate any purchase order to, contract with, or awarded to the vendor, in whole or in part, for cause (including breach of the proposal, warranties, or contract by the vendor, or because of loss of federal funding) or for the District's convenience at any time. Any award, contract, or purchase order is subject to termination by the District if any person significantly involved in initiating, negotiating, securing, drafting, or creating the solicitation on behalf of the District, is at any time while the solicitation is in effect, an employee of the vendor in any capacity or as a consultant to the District with respect to the subject matter of the Solicitation.

If deemed necessary, inspections will be made by authorized District personnel on a routine basis. Any deficiencies in the work performance disclosed during such inspections must be corrected following receipt of notification by the Vendor. Continued failure to take such corrective actions could, at the District's discretion, lead to termination of any resulting award.

FORCE MAJEURE

Neither the District nor the vendor shall be responsible or deemed to be in default of its obligations to the other to the extent any failure to perform or delay in performing its obligations under the bid or proposal is caused by events or conditions beyond the reasonable control of that party, and are not due to the negligence or willful misconduct of such party (hereinafter, "Force Majeure events"). For purposes of the bid or proposal, Force Majeure events shall include, but not be limited to, acts of God or public enemy, war, riot or civil commotion, strikes, epidemic, fire, earthquake, tornado, hurricane, flood, explosion, weather-related emergencies, or other catastrophes, or events or conditions due to law, regulations, ordinances, order of a court of competent jurisdiction, or executive decree or order. However, in the event of such delayed non-performance or nonperformance, the party so delayed shall furnish prompt written notice to the other party (including the date of inception of the Force Majeure event and the extent to which it will affect performance) and shall undertake all efforts reasonably possible to cure the delay or nonperformance and mitigate its effects, or to otherwise perform. The District shall not be responsible for payment for any product or service



delayed or foreclosed by any Force Majeure event unless and until such delayed or foreclosed product or service is provided. These provisions shall not preclude the District from canceling or terminating any resulting award (or any order for any goods or services included herein), or from revising the scope of the work, as otherwise permitted under the bid or proposal.

CONFLICTS

Effective January 1, 2006 and pursuant to Texas H.B. No. 914 and in accordance with Chapter 176 of the Texas Local Government Code, Section 176.006, any person or entity who contracts or seeks to contract with RISD for the sale or purchase of property, goods, or services (as well as agents of such persons, hereafter referred to as Vendors) are required to file, on an annual basis, a Conflict of Interest Questionnaire with the District. Each covered person or entity who seeks to or who contracts with RISD is responsible for complying with any applicable disclosure requirements. RISD will post the completed questionnaires on its website. Information regarding H.B. No. 914 may be obtained from the Texas Ethics Commission's website at <http://www.ethics.state.tx.us>.

Any board member who has any substantial interest, either direct or indirect, in any business entity seeking to contract with the District, shall, before any vote or decision on any matter involving the business entity, file an affidavit stating the nature and extent of interest and shall abstain from any participation in the matter. This is not required if the vote or decision will not have any special effect on the entity other than its effect on the public. However, if a majority of the governing body are also required to file, and do file similar affidavits, then the member is not required to abstain from further participation.

Local Government Code Chapter 171

In 2015, the Texas Legislature adopted House Bill 1295, which added section 2252.908 of the Government Code. The laws states that a governmental entity or state agency may not enter into certain contracts with a business entity unless the business entity submits a disclosure of interested parties (Form 1295) to the governmental entity or state agency at the time the business entity submits the signed contract to the governmental entity or state agency. The business entity is responsible for first electronically filing Form 1295 with the Ethics Commission. This filing process creates a certification of filing and a completed Form 1295 must be printed, signed by an authorized agent of the business entity and submitted to the school district.

GRATUITIES

Please note that a "gift to a public servant" is a Class A misdemeanor offense if the recipient is a government employee who exercise some influences in the purchasing process of the governmental body. This would certainly apply to anyone who helps establish specifications or is involved in product selection or directs a purchase.

The District may, by written notice to the vendor, cancel this solicitation, its contract, purchase order, or award



without liability to the vendor if it is

determined by the District that gratuities, in the form of entertainment, compensation, gifts, or otherwise were offered or given by the vendor, or any agent or representative of the vendor, to any Board of Trustee member, officer, or employee of the Rockwall Independent School District with an intent to secure favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performing of such an agreement. In the event this contract is canceled by the District pursuant to this provision, Rockwall ISD shall be entitled, in addition to any other rights and remedies, to recover or withhold the amount used by the vendor to provide such gratuities.

FACILITIES

Rockwall ISD is a tobacco-free, drug-free, weapon-free and alcohol-free environment. No one may use, consume, carry, transport or exchange alcohol beverages, tobacco, cigarettes, electronic cigarettes, controlled substances and/ or illegal drugs while in a school district building or while on school district property. It is the responsibility of the vendor to ensure that its employees, agents, and subcontractors are not under the influence of drugs or alcohol and/or in possession of drugs, tobacco, alcohol, or weapons. If an employee, agent, or subcontractor of vendor is found to be under the influence and/or in possession of drugs/tobacco, alcohol, or weapons at the time of service, the vendor will be notified at once by District that the individual(s) must be immediately restricted from all Rockwall ISD campuses/departments. Repeated offenses by vendor could result in contract termination for default.

For the safety of students, all vendor personnel will sign visitor log in the office at the campus. An identification badge will be worn as required by the campus administrator. Vendor personnel are expected to maintain proper dress and exhibit a vendor badge or wear vendor issued shirts displaying the vendor logo. All contractors must also be in a uniform that identifies them at all times.

All vendor personnel are required to stay within the designated installation areas and may only enter a teacher's classroom when accompanied by District personnel.

At the time of offer submission, the person or entity submitting an offer must give notice to the district if the person or an owner or operator of the business entity has been convicted of a felony. The notice must include a general description of the conduct resulting in this conviction of a felony. The District may terminate a contract with a person or business if the District determines that the person or business failed to give such notice or misrepresented the conduct resulting in the conviction. This requirement does not apply to a publicly held corporation.

Texas Education Code Chapter 22 requires service contractors to obtain criminal history record information regarding covered employees and to certify to the District that they have done so. Covered employees with disqualifying convictions are prohibited from serving at a school district. Covered employees are all



employees of a contractor who have or will have continuing duties related to the service to be performed at the District and have or will have direct contact with students. The District will be the final arbiter of what constitutes direct contact with students.

Vendors (owners, officers, employees, volunteers, etc.) may not work on District property where students may or may not be present when they have charges pending, have been convicted, received probation or deferred adjudication for the following:

- Any offense against a child
- Any sex offense
- Any crimes against persons involving weapons or violence
- Any felony offense involving controlled substances
- Any felony offense against property
- Any other offense the District believes might compromise the safety of students, staff, or property.

ASBESTOS

Vendors who perform work inside the RISD facilities are hereby notified that buildings may contain asbestos containing materials. This notification is required by both the State of Texas Department of State Health Services and the Federal EPA Asbestos regulations. These guidelines cover both RISD's responsibilities and the Employer's responsibility to their employees. As a Vendor it is your responsibility to check each building prior to performing any work in that facility. These building materials may include but are not limited to: ceiling tile, floor tile and mastic, sheetrock, tape and bed compound, thermal pipe insulation, spray-on ceiling material, calks, and roofing products. As there have been numerous asbestos containing products manufactured over the years, you must check each building's Asbestos Management Plan. This plan is normally kept in the main office. Check with the school secretary and she will allow you to look at it. It is the vendor's responsibility to notify all employees working for them that RISD facilities may contain asbestos and where their employees may find the facility's Asbestos Management Plan.

Products and/or services procured under this agreement may be of a construction nature and will require certification that materials utilized and installed in conjunction with any project involving construction, be it new, renovation or contracted trade services, are free of asbestos and lead.

PUBLIC INFORMATION ACT (PIA) / FREEDOM OF INFORMATION ACT (FOIA)

By entering into a contract, pursuant to Texas Government Code Ann. Chapter 552, Subchapter J, the vendor agrees to be bound by the following terms if the contract has a stated expenditure of at least \$1,000,000 for the purchase of goods or services by the District or if the contract results in the expenditure of at least \$1,000,000 in public funds for the purchase of goods or services by the District in a fiscal year of the Rockwall ISD. If the district receives a written request for public information related to this Contract that is in the possession or custody of the vendor and not in the possession or custody of the District, Rockwall ISD shall send, not later than the third business day after the date the District receives the written request, a written



request to the vendor that vendor provide that information to the District.

The vendor must:

- Preserve all contracting information related to the contract as provided by the records retention requirements applicable to the District for the duration of the contract;
- Promptly, within four business days, provide to the District any requested contracting information that is in the custody or possession of the vendor upon request of the Rockwall ISD; and,

On completion of the contract, either:

- Provide to the District at no cost all contracting information related to the contract that is in the custody or possession of the vendor; or
- Preserve the contracting information related to the contract as provided by the records retention requirements applicable to the District.

If the requirements of Subchapter J, Chapter 552, Texas Government Code Ann. apply to this Solicitation or Contract, the vendor agrees that the contract can be terminated if the vendor knowingly or intentionally fails to comply with the requirements of that subchapter. Texas Government Code Ann. Chapter 552.374.

Further, under Texas Government Code Ann. Chapter 552.372(c), Rockwall ISD may not accept a bid from or award a contract to an entity that the District has determined has knowingly or intentionally failed in a previous bid or contract to comply with Subchapter J, unless the District determines and documents that the entity has taken adequate steps to ensure future compliance.

If a vendor fails to provide the requested information to the District, Texas Government Code Ann. §552.373 requires the District to notify the vendor in writing of the failure and allow 10 business days to cure the violation. Rockwall ISD may terminate the contract if vendor fails to remedy the failure, the District determines the failure was knowing and intentional, and steps have not been taken to ensure future compliance.

INDEMNITY

Except as otherwise expressly provided or prohibited by law, respondent shall defend, indemnify, and hold RISD harmless from and against all claims, liability, loss and expenses, including reasonable costs, collection expenses, and attorneys' fees incurred, which arise by reason of the acts or omissions of respondent, its agents or employees in the performance of its obligations under this contract. This clause shall survive termination of this contract.



ANTI-TRUST

Successful respondent shall assign to RISD any and all claims for overcharges associated with this contract which arise under the antitrust laws of the United States, 15 USCA, Section 1 et seq., and which arise under the antitrust laws of the State of Texas, Tex. Bus. & Com. Code, Section 15.01, et seq.

MEDIATION

In the event of any dispute arising out of, related to, or regarding vendor's bid or proposal, or charges for goods or services provided by the vendor, those disputes will be resolved under the terms of Texas Government Code Ann. Chapter 2251. The vendor further agrees that any dispute regarding the sufficiency of the goods or services supplied by the vendor that is not resolved by discussion with the District, will be submitted to mediation in Rockwall County, Texas, with a mutually-agreed mediator, before either party may file suit. The costs of the mediator will be divided equally between the parties. In the event of any litigation between the parties, the prevailing party shall be entitled to recover reasonable and necessary attorneys' fees from the other party.

LITIGATION

This procurement, and any resulting award, contract, purchase order, or other agreement arising out of or related to it, shall be governed and interpreted by the laws of the State of Texas, and any litigation shall be conducted in state district court. Mandatory and exclusive venue shall be in Rockwall County, Texas, or, if no county is specified, then in the county in which the Owner's main administrative office is located.



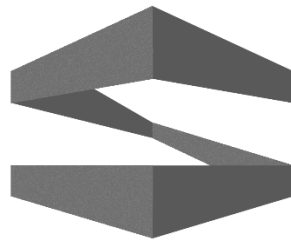
SPECIFICATIONS



PROJECT MANUAL

ROCKWALL ISD – WSM STADIUM METAL PANEL & PLASTER REPAIR PROJECT

ROCKWALL, TEXAS



STROHMEYER
ARCHITECTS INC.

TABLE OF CONTENTS**DIVISION 00 - GENERAL**

- 00 0110 TABLE OF CONTENTS
- 00 0015 LIST OF DRAWINGS

DIVISION 01 - GENERAL REQUIREMENTS

- 01 1100 SUMMARY OF WORK
- 01 1400 WORK RESTRICTIONS
- 01 2100 ALLOWANCES

- 01 3000 ADMINISTRATIVE REQUIREMENTS
- 01 3216 CONSTRUCTION PROGRESS SCHEDULE
- 01 4000 QUALITY REQUIREMENTS
- 01 4100 REGULATORY REQUIREMENTS
- 01 4516 CONTRACTOR'S QUALITY CONTROL
- 01 5000 TEMPORARY FACILITIES AND CONTROLS

- 01 6000 PRODUCT REQUIREMENTS

- 01 7000 EXECUTION AND CLOSEOUT
REQUIREMENTS
- 01 7800 CLOSEOUT SUBMITTALS

DIVISION 02 - EXISTING CONDITIONS

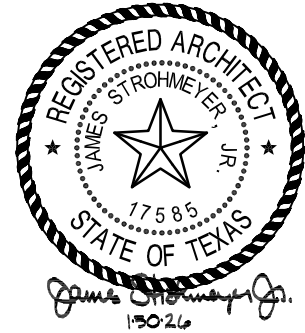
- 02 4100 DEMOLITION

**DIVISION 07 - THERMAL AND MOISTURE
PROTECTION**

- 07 2500 WEATHER BARRIERS
- 07 9200 JOINT SEALANTS
- 07 4213 METAL COMPOSITE MATERIAL
WALL PANELS

DIVISION 09 - FINISHES

- 09 9000 PAINTING AND COATINGS

END OF SECTION

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

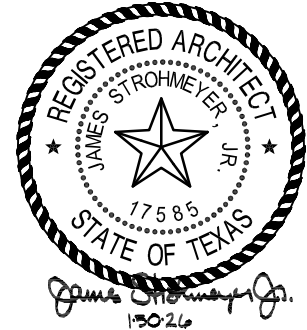
SECTION 00 0115
LIST OF DRAWING SHEETS

PART 1 - GENERAL

1.01 SUMMARY

G000-COVER SHEET
G100-CODE SHEET 2021 & INDEX
AD101-DEMO PLAN & ELEVATIONS
A100-LEVEL 1 PLAN & ROOF PLAN & DETAILS
A101-ELEVATIONS & SECTIONS
A102-ROOF PLAN DETAILS – ALTERNATE #1

END OF SECTION



SECTION 01 1100
SUMMARY OF WORK**PART 1 - GENERAL****1.01 DESCRIPTION****A. Work Included:**

The "Project" of which the "Work" of this Contract is a part, is ROCKWALL ISD – WSM STADIUM METAL PANEL & PLASTER REPAIR PROJECT, ROCKWALL, TEXAS

1. The "Work" of this Contract is ROCKWALL ISD – WSM STADIUM METAL PANEL & PLASTER REPAIR PROJECT and is defined in the Contract Documents to include, but not necessarily to be limited to:

- a. Pressbox soffit and fascia panel replacement and a defined plaster area to receive an elastomeric coating.

2. Related Work:

- a. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 01 of these Specifications.
 - b. The work of other contracts is described in various contract documents prepared therefore, some of which are in the possession of the Owner and are available for inspection by interested parties.

B. Other Work:

1. Owner (if required by Municipality, State or Federal requirements) shall provide evidence to the municipality permitting the project that an asbestos survey has been completed by a person licensed under the Texas Asbestos Health Protection Act to perform such a survey.
2. The architect has no responsibility for the discovery, presence, handling, removal or disposal of or exposure of persons to hazardous materials or toxic substances in any form at the project site.
3. The architect is not required to execute certifications that would require knowledge, services or responsibilities beyond the scope of the architectural service agreement.
4. The architect assists the owner in the owner's responsibility to obtain applicable permits for demolition and construction.
5. Contractor to review and familiarize themselves with owner's Asbestos survey and plan and shall inform every worker that they use on this project as to the availability of these surveys and plans prior to starting any work.

END OF SECTION

SECTION 01 1400
WORK RESTRICTIONS**PART 1 – GENERAL****1.01 DESCRIPTION**

- A. Work Included:
 - 1. Contractor shall comply with the following requirements concerning scope and work restrictions.
 - 2. If the Contractor believes that meeting the restrictions in this section would cause a delay to the intended schedule, they shall issue an RFI requesting specific modifications to that specific Work Restriction that would permit construction to continue without delay and indicating the reasons for the request. If construction proceeds without meeting any of the restriction requirements or obtaining approval for a modification of these requirements, the Contractor shall be responsible for all costs associated with removing and replacing all construction that occurred in violation of the Work Restrictions, if directed to by the Architect, without any increase in approved construction costs or schedule for the project.
- B. Related Work:
 - 1. Documents affecting work of this Section include, but are not necessarily limited to, General Conditions, Supplementary Conditions, and Sections in Division 01 of these Specifications.
 - 2. The work of other contracts is described in various contract documents prepared therefore, some of which are in the possession of the Owner and are available for inspection by interested parties.
- C. Specific Project Restrictions:
 - 1. Contractor shall be advised that the facility will be operating during the duration of this project.
 - 2. Contractor shall coordinate with the Owner any activities which will disrupt normal operations.
 - 3. Before project completion, Contractor shall provide fully established grass at locations including but not limited to all disturbed areas, under items that have been stored on site, construction trailers and storage units.

END OF SECTION

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

**SECTION 01 2100
ALLOWANCES**

PART 1 GENERAL**1.01 SECTION INCLUDES**

- A. Cash allowances.
- B. Contingency allowance.

- C. Payment and modification procedures relating to allowances.

1.02 CASH ALLOWANCES

- A. Cash Allowances shall be included in the contract sum.
- B. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit will not be included in Change Orders authorizing expenditure of funds from this Cash Allowance. These costs shall be included in base contract sum unless noted otherwise
- C. Costs Not Included in Cash Allowances: Product handling at the site, including unloading, uncrating, and storage; protection of products from elements and from damage; and labor for installation and finishing. These costs shall be included in base contract sum unless noted otherwise.
- D. Architect Responsibilities:
 - 1. Consult with Contractor for consideration and selection of products, and installers.
 - 2. Select products in consultation with Owner and transmit decision to Contractor.
 - 3. Prepare Change Order.
- E. Contractor Responsibilities:
 - 1. Assist Architect in selection of products, suppliers, and installers.
 - 2. Obtain proposals from suppliers and installers and offer recommendations.
 - 3. On notification of which products have been selected, execute purchase agreement with designated supplier and installer.
 - 4. Arrange for and process shop drawings, product data, and samples. Arrange for delivery.
- F. Differences in costs will be adjusted by Change Order.
- G. At closeout of Contract, funds remaining in Contingency Allowance will be credited to Owner by Change Order.

1.03 CONTINGENCY ALLOWANCE

- A. Contingency Allowance shall be included in the contract sum.
- B. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit will not be included in Change Orders authorizing expenditure of funds from this Contingency Allowance.
- C. At closeout of Contract, funds remaining in Contingency Allowance will be credited to Owner by Change Order.

1.04 ALLOWANCES SCHEDULE

- A. Contingency Allowance: Include the stipulated sum/price of \$15,000 for use upon Architect's and Owner's instructions.
- B. Plaster Repair Allowance: Include the stipulated sum/price of \$10,000 for use upon Architects' and Owner's Instructions.
- C. Roof Insulation Replacement – Include the stipulated sum/price of \$10,000 for use upon Architects' and Owner's Instructions.

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USE

END OF SECTION

SECTION 01 2200 UNIT PRICES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Measurement and payment criteria applicable to Work performed under a unit price payment method.

1.02 COSTS INCLUDED

- A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

1.03 MEASUREMENT OF QUANTITIES

- A. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.
- B. Take all measurements and compute quantities. Measurements and quantities will be verified by Architect.
- C. Assist by providing necessary equipment, workers, and survey personnel as required.
- D. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.
- E. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.
- F. Measurement by Area: Measured by square dimension using mean length and width or radius.
- G. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.

1.04 PAYMENT

- A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Architect, multiplied by the unit price.
- B. The following unit prices may apply on any additions to, or deductions from the work, which prices shall include overhead, profit, taxes, and all other related costs. The unit prices shall be installed, in-place prices for materials/systems as specified. The quoted unit prices will be valid, and the quoted unit prices will be in force on any work. A singular cost shall be provided below to be used for both additions and deductions. If different prices are provided for additions and deductions the average of the absolute values will be used. The materials and work shall be in compliance with the specifications. The Contractor shall not be compensated for work that is not authorized by the Architect or Owners Laboratory (e.g. over drilling of piers and additional concrete and reinforcement for over drilled piers)

1.05 SCHEDULE OF UNIT PRICES

UNIT PRICING MATERIAL/SYSTEM	UNITS	COST (\$)/UNIT
Metal Panel Sheathing	Square Foot	_____
Plaster Repair	Square Foot	_____
Roof Insulation	Square Foot	_____

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

**SECTION 01 2300
ALTERNATES**

PART 1 GENERAL**1.01 SECTION INCLUDES**

- A. Description of Alternates.
- B. Procedures for pricing Alternates.

1.02 RELATED REQUIREMENTS

- A. Section 00 2116 - Instructions to Proposers
- B. Section 00 4200 - Proposal Form

1.03 PROCEDURES

- A. Proposers are required to submit alternate proposals to add work or to deduct work from the base proposal as described below. Failure to submit alternate amounts in spaces provided on proposal form is basis for disqualification of proposal.
- B. The successful proposer shall not modify, withdraw or cancel any of the alternate proposals or any part thereof for 45 days after date of receipt of proposals, unless specifically noted otherwise.
- C. Contractor shall be responsible for any changes in the work affected by acceptance of these alternates. Include within the alternative proposal prices all costs, including materials, installations, and fees.
- D. Claims for additional dollars resulting from changes caused by the alternates will not be allowed.
- E. Refer to the drawings and project manual for items of work affected by alternates.
- F. Alternates will be exercised at the option of the Owner.
- G. Coordinate related work and modify surrounding work as required to complete the Work, including changes under each alternate, when acceptance is designated in the Owner - Contractor Agreement.

1.04 ACCEPTANCE OF ALTERNATES

- A. Indicate variation of proposal price for alternates described below and list on the proposal form or any supplement to it, which requests a 'difference' in proposal price by adding to or deducting from the base proposal price or by indicating "No Charge".
- B. Indicating "No Bid" as an alternate is unacceptable and is reason for rejection of the proposal.
- C. Alternates quoted on Bid / Proposal Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.
- D. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.

1.05 SCHEDULE OF ALTERNATES

- A. Alternate Number 1: As identified on drawings, Demo Existing Roof down to insulation. Repair/Replace Damaged Insulation. Install New Cover Board and New Fully Adhered (Hot Asphalt) PVC Membrane Roofing System as specified.

PART 2 PRODUCTS - NOT USED**PART 3 EXECUTION - NOT USED**

END OF SECTION

SECTION 01 3000

ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Preconstruction meeting.
- B. Schedule of Values.
- C. Progress meetings.
- D. Submittal Schedule.
- E. Submittals for review and project closeout.
- F. Number of copies of submittals.
- G. Submittal procedures.
- H. Progress Payments.
- I. Contractor's Daily Field Report.
- J. Request For Information.

1.02 RELATED REQUIREMENTS

- A. Section 01 1100 - Summary of Work
- B. Section 01 3216 - Construction Progress Schedule: Form, content, and administration of schedules.
- C. Section 01 6000 - Product Requirements: General product requirements.
- D. Section 01 7000 - Execution and Closeout Requirements: Additional coordination requirements.
- E. Section 01 7800 - Closeout Submittals: Project record documents.

1.03 GENERAL ADMINISTRATIVE REQUIREMENTS

- A. Conform to requirements of Section 01 7000 - Execution and Closeout Requirements for coordination of execution of administrative tasks with timing of construction activities.
- B. Make the following types of submittals to Architect:
 - 1. Requests for Information (RFI).
 - 2. Shop drawings, product data, and samples.
 - 3. Test and inspection reports.
 - 4. Design data.
 - 5. Manufacturer's instructions and field reports.
 - 6. Applications for payment and change order requests.
 - 7. Progress schedules.
 - 8. Coordination drawings.
 - 9. Correction Punch List and Final Correction Punch List for Substantial Completion.
 - 10. Closeout submittals.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETINGS

- A. A Kick-Off Pre-Construction meeting will be scheduled to be held upon notification by the Architect.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

1. Provide attendance by authorized representatives of the Contractor and major subcontractors.
2. The Architect will advise other parties, including the Owner, and request their attendance.
3. The Architect shall arrange, preside, and record the minutes of the pre-construction meeting.
4. A pre-construction meeting agenda will be issued by the Architect at the meeting.
5. Agenda items to be discussed include:
 - a. Self introductions
 - b. Design concept, scope, and objectives
 - c. Communications
 - d. Contractor's responsibilities
 - e. Documentation and notification
 - f. Progress Meetings
 - g. Submittals
 - h. Project Administration
 - i. Project Closeout

3.02 SCHEDULE OF VALUES

- A. Within twenty-one (21) calendar days following Notice to Proceed, the Contractor shall submit a Schedule of Values (using the breakdown of the Construction Schedule activities) for review by the Owner's Representatives. The Schedule of Values will allocate a dollar value (cost) for each activity of the Construction Schedule. Each activity cost allocation shall include a labor, equipment and material cost and a pro rata contribution to overhead and profit. The sum of all activity costs shall be equal to the total Contract Sum. Each activity cost shall be coded with a cost code corresponding to the subcontractor responsible for the Work so that subtotals for each division of the Work can be prepared.
- B. Within thirty (30) calendar days following Notice to Proceed, the Contractor shall participate in a conference with the Owner's Representatives to review, evaluate and approve the Schedule of Values. The approved Schedule of Values shall, in the best judgment of the Contractor, the Project Manager, and the Architect represent a fair, reasonable, and equitable dollar (cost) allocation for each activity on the Construction Schedule.

3.03 PROGRESS MEETINGS

- A. Schedule and administer jobsite meetings throughout progress of the Work in intervals agreed to at the Preconstruction Meeting.
- B. Contractor will make arrangements for meetings, prepare agenda with copies for participants, preside at meetings. Agendas and prior meeting minutes shall be distributed 24 hours prior to meeting.
- C. Attendance Required: Job superintendent, major Subcontractors and suppliers (as invited), Owner, Architect, as appropriate to agenda topics for each meeting. Representation should be consistent throughout project.
- D. Agenda:
 1. Review minutes of previous meetings.
 2. Review of Work progress.
 3. Field observations, problems, and decisions.
 4. Identification of problems that impede, or will impede, planned progress.
 5. Review of submittals schedule and status of submittals.
 6. Review of off-site fabrication and delivery schedules.
 7. Maintenance of progress schedule.
 8. Corrective measures to regain projected schedules.
 9. Planned progress during succeeding work period.
 10. Coordination of projected progress.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

11. Maintenance of quality and work standards.
 12. Effect of proposed changes on progress schedule and coordination.
 13. Status of Request for Information (RFI).
 14. Status of Request for Change Proposal (RFP).
 15. Other business relating to Work.
 16. Construction forecast for 3 weeks.
 17. Weather Delay Requests.
 18. Quality Control.
- E. Record minutes and distribute typewritten copies within two days after meeting to participants, with one copy to Architect, Owner, participants, and those affected by decisions made.
1. Unless published minutes are challenged in writing prior to the next regularly scheduled progress meeting, they will be accepted as properly stating the activities and decisions of the meeting.
 2. Persons challenging published minutes shall reproduce and distribute copies of the challenge to all indicated recipients of the particular set of minutes.
 3. Challenge to minutes shall be settled as priority portion of "old business" at the next regularly scheduled meeting.

3.04 SUBMITTAL SCHEDULE

- A. Within twenty-one (21) business days following the Notice to Proceed, the Contractor shall submit a Submittal Schedule for review by the Architect and Owner. This schedule shall coincide with the approved Construction Schedule accommodating the submittal review and material selection times as required by Architect, Owner or Owner's Representatives. In the event a submittal schedule is not provided and approved by the Architect, Owner, or the Owner Representative at the submission of the 2nd pay application, the 2nd pay application will be held until the submittal schedule is complete as noted above.
- B. This schedule shall list all required submittals, product data, and samples for the project. Each item to be submitted shall include the date to be submitted, review time and the scheduled installation date. All submittals shall be listed and sequenced within the Submittal Schedule in accordance with the approved Construction Schedule.
- C. The Architect and Owner will review the Submittal Schedule, provide revision comments and return it to the Contractor within fourteen (14) business days. If revisions are required, the Contractor shall then resubmit a revised Submittal Schedule to the Architect and Owner within fourteen (14) business days and thereafter until approved,
- D. Submittals, product data and samples submitted out of sequence to the approved Submittal Schedule or Construction Schedule will be subject to return as unchecked and required to be resubmitted at a date coinciding with these schedules. The Submittal Schedule is advisory only and shall not relieve the Contractor of the responsibility for accomplishing the Work within each and every Contract required Milestone and Completion date. Omissions and errors in the approved Submittal Schedule shall not excuse the Contractor from providing required submittals, product data or samples, nor excuse the Contractor from meeting the Contract required Milestones and Completion date.

3.05 SUBMITTAL DEFINITIONS AND REQUIREMENTS

- A. Shop Drawing
1. Shop drawings, diagrams, schedules and other data specifically prepared for the work by the contractor, subcontractor, manufacturer, or supplier to illustrate some portion of the work.
- B. Product Data
1. Product data are illustrations, standard schedules, performance charts, instructions, and brochures, furnished by the contractor to illustrate materials or equipment to illustrate some portion of the work.
- C. Sample

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

1. Physical examples which illustrate materials for some portion of the work evaluated for product compliance.
- D. Color Sample
 1. Physical examples which illustrate color or texture for use in color selection.
- E. Submittal
 1. The submittal is the compilation of the shop drawing, product data, sample, color sample as requested by the specifications.

3.06 SUBMITTALS FOR REVIEW

- A. The Architects review of the Contractors submittal shall be limited to examination of an initial submittal and one resubmittal. The Architect's review of additional submittals, beyond that of the initial and resubmittal, will be made only with prior written approval of the Owner after notification by the Architect.
- B. Contractors review of submittals shall be consistent with A201 – General Conditions. Areas of deviation from the Contract Documents will be represented by revision clouds, Green in color, made by the General Contractor on the associated PDF document. In the event there are no clouded areas identified, it can be assumed that the associated submittal has been reviewed in full by the General Contractor and are deemed approved. No further review by the Architect is required.
- C. Samples
 1. Contractor shall submit all products which require a color selection. Contractor shall only submit actual product sample. Remainder of submittal shall be retained by contractor. Refer to color sample procedures below.
 2. Provide sample identical to the precise article proposed to be provided.
 3. Unless otherwise specified, submit one sample which will be retained by the Architect.
 4. Samples will be reviewed only for aesthetic, color, or finish selection.
- D. The Contractor may require his subcontractors to provide drawings, setting diagrams, and similar information to help coordinate the project, but such data shall remain between the Contractor and his subcontractors and will not be reviewed by the Architect.
- E. Where required by specification sections, provide submittals to the Contractor for review and approval. Contractor shall maintain a copy of all submittals at the projectsite.
- F. Fax submittals are not acceptable.
 1. Submit to Architect for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.
 2. Samples will be reviewed only for aesthetic, color, or finish selection.
 3. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 7800 - Closeout Submittals.

3.07 SUBMITTALS FOR PROJECT CLOSEOUT

- A. Submit Correction Punch List for Substantial Completion.
- B. Submit Final Correction Punch List for Substantial Completion.
- C. When the following are specified in individual sections, submit them at project closeout:
 1. Project record documents.
 2. Operation and maintenance data.
 3. Warranties. (Sample warranty to be included in submittal, executed warranty in closeout.)
 4. Bonds.
 5. Owner training.
 6. Certifications and inspections.
 7. Other types as indicated.
- D. Submit for Owner's benefit during and after project completion.

3.08 NUMBER OF COPIES OF SUBMITTALS

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- A. Electronic Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.
- B. Extra Copies at Project Closeout: See Section 01 7800.
- C. Samples: Submit one sample as specified in individual specification sections which will be retained by Architect. All other samples required by the individual specification section shall be retained by the Contractor.
 - 1. After review, Contractor shall produce duplicates if needed for other purposes.
 - 2. The Architect's sample will not be returned to Contractor.

3.10 SUBMITTAL PROCEDURES

- A. Shop Drawing Procedures:
 - 1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting the Contract Documents and coordinating related Work.
 - 2. Generic, non-project specific information submitted as shop drawings do not meet the requirements for shop drawings.
- B. Transmit each submittal with a copy of approved submittal form.
- C. Acceptable Manufacturers
 - 1. Manufacturers submitted shall be as per the acceptable manufacturers listed in each specification. For additional manufacturers requiring approval, reference Section 01 6000 – Product Requirements.
- D. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.
- E. Submittals shall be numbered as follows:
 - 1. Number shall be Architects project number followed by the appropriate specification section - consecutive submittal number for section.
 - 2. Example - 1234-01-01 Tiling 09 3000 - 5.
 - 3. When material is re-submitted for any reason, transmit under a new letter of transmittal and with a new transmittal number.
 - 4. On re-submittals, cite the original submittal number for reference.
 - 5. On at least the first page of each submittal, and elsewhere as required for positive identification, show the submittal number in which the item was included.
 - 6. When multiple projects are administered under one contract, contractor shall submit separate submittals for each project. Failure to submit separately will result in a rejected submittal review.
 - 7. Unless otherwise specified, make submittals in groups containing all associated items to assure that information is available for checking each item when it is received.
 - a. Partial submittals may be rejected as not complying with the provisions of the Contract.
 - b. The Contractor may be held liable for delays so occasioned.
 - c. Multiple projects bid under a single prime shall package submittals separately for each project.
- F. Identify Project, Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.
- G. Deliver physical sample submittals to Architect
- H. Schedule submittals to expedite the Project, and coordinate submission of related items.
- I. For each submittal for review, allow 14 days excluding delivery time to and from the Contractor.
- J. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- K. Provide space for Contractor and Architect review stamps.
- L. When revised for resubmission, identify all changes made since previous submission.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

M. Revisions:

1. Make revisions required by the Architect.
2. If the Contractor considers any required revision to be a change, he shall so notify the Architect as provided for in the General Conditions.
3. Make only those revisions directed or approved by the Architect.
4. The contractor shall be responsible for delays caused by rejection of inadequate or incorrect submittals.

N. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.

O. Submittals not requested will not be recognized or processed.

P. Submittals received by Architect without General Contractor's stamp will be rejected.

3.11 PROGRESS PAYMENTS

A. The submission and approval of progress updates and the reports calculating the value of work done for any given pay period for each activity based on the percentage complete for that activity less the amount previously paid for past percentages complete and percent of retainage shall be an integral part and basic element of the application upon which Progress Payments shall be made pursuant to the provisions of the General Conditions and/or Supplementary Conditions. The Contractor shall be entitled to progress payments only as determined from the current updated and approved Construction Schedule. Contractor shall submit (3) three original sets for the first and final applications for payment, with all original signatures of AIA form G702 and G703 (form G702/CMA is not acceptable). All other payment applications shall be submitted electronically as described in paragraph 3.01 Electronic Document Submittal Service.

1. The initial and subsequent cost reports which are developed from the schedule of values shall include the following activity information:

- a. Activity number and activity description.
- b. Percentage of value of work in place against Total Value.
- c. Total cost of each activity.
- d. Value of work in place this period.
- e. Value of work in place to date.
- f. Value of uncompleted work.
- g. Value of stored material not in place.
- h. The cost report will be submitted as supporting documentation to the Contractor's application for payment. The application for payment shall be submitted as required by the Contract Documents.
- i. Identify scopes of work (campuses/buildings) when applicable with a clear and concise heading.
- j. Separate scopes of work with the appropriate heading per the 2016 MasterFormat standard.
- k. "Description of Work" shall be identified by specification number and heading per 2016 MasterFormat standard while separating the "Labor" and "Material" costs throughout each line item in the scope of Work.
- l. Include all associated contingencies and allowances expenditures.
 - 1) All contingency and allowance expenditures shall be listed sequentially and follow the same guidelines as noted below. "Description of Work" shall reflect the pricing exercise and identify contingency or allowance.
 - 2) Reference the example AIA Document G703 found at the end of this Section.

m. In the event the Work is completed without the use of 100% of the the associated funds in the contract, column "H" or "Balance to Finish" shall represent the total dollar amount being credited back to the owner via AIA G701

3.12 CONTRACTOR'S DAILY FIELD REPORT

A. Daily reports shall be used to record a chronological, day-to-day account of the work force, the

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

respective activities performed, the weather conditions, and any specific events that take place on the Project.

- B. The Daily Report shall not be used as a communication tool. Any situations requiring specific action shall be brought to the attention of the appropriate party by means of written correspondence, memoranda, or meeting minutes.
- C. Photographs shall be used with the Daily Report to clarify or confirm statements and concerns.
- D. The Contractor shall produce a Daily Report including the following information:
 - 1. Date.
 - 2. Weather, temperature, wind, and precipitation.
 - 3. Number of workers on site, listed by Subcontractor and Trade.
 - 4. Material and equipment deliveries.
 - 5. Construction quantities placed.
 - 6. General description of the Work accomplished.
 - 7. Specific problems encountered.
 - 8. Meetings held.
 - 9. List of visitors to the site and their companies.
 - 10. Construction photographs.
- E. NOTE: Provide Owner with copies of signed Daily Report at weekly progress meetings.

3.13 REQUEST FOR INFORMATION

- A. Contract document interpretations or clarifications shall be submitted by the Contractor to the Architect in the form of a written request for information (RFI).
- B. RFIs shall be numbered sequentially and shall include only one question or related questions per RFI. If the Contractor's question or request for interpretation is already clearly defined or discernible in the contract documents, the RFI may be returned unanswered and the Architect may be entitled to additional compensation (from the Contractor) for review time.
- C. If the Contractor believes there may be additional contract cost or time incurred, it shall be stated in the RFI. If additional contract cost or time is required based on the RFI, the Architect will issue appropriate documentation for the proposed change. All changes in work shall be accomplished by approved change order only.
- D. The Architect will respond to the RFI in a reasonable and timely manner, within approximately seven (7) business days from the date the RFI is received and stamped by the Architect's office. No extension of contract cost or time will be allowed due to a delayed RFI submittal or the response to an RFI.

3.14 DEVELOPMENT OF ADVERSE WEATHER DATA

- A. Unless weather data is noted elsewhere in the contract for construction, provide as follows;
- B. Collection of Adverse Weather Data
 - 1. Weather data obtained from the National Oceanic and Atmospheric Administration (NOAA) shall form the baseline for estimating anticipated delays and project durations and determining the occurrence of unusually severe weather. Data shall be collected and compiled as follows:
 - a. Contractor shall compile the number of days per month that the anticipated weather is expected to be adverse by analysis of NOAA. The last 5 years of consecutive data shall be used to establish the baseline of rain days per month associated with the project schedule duration. However, in the absence of 5 years of data, a shorter period may be used.
 - b. The compiled data shall be submitted with the Contractors Construction Schedule for documenting future weather events.
- C. Submission for Time Extension
 - 1. Although the contractor is required to document the occurrence and effect of adverse

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

weather on the work, it does not relieve the Contractor/Architect of its responsibility to investigate and determine if an excusable delay has occurred.

2. The schedule of anticipated adverse weather delays included in the contract is established in work days. Similarly, actual weather data should be collected and recorded on a work day basis. Monthly summaries should be maintained indicating actual adverse weather conditions and the impact on work activities.
3. To determine if any particular month experienced unusually severe weather, the number of actual adverse delay days is compared to that as provided by the NOAA database. If the number of actual delay days is greater than that in the contract the contractor has experienced unusually severe weather.
4. THE DETERMINATION THAT UNUSUALLY SEVERE WEATHER OCCURRED DOES NOT AUTOMATICALLY MEAN THAT THE CONTRACTOR RECEIVES A TIME EXTENSION FOR THE DIFFERENCE OF DAYS BETWEEN THE ANTICIPATED AND ACTUAL ADVERSE WEATHER DELAY DAYS. Further analysis is necessary to determine if the unusually severe weather delayed work activities critical to contract completion. The contractor's progress schedule must be evaluated to make this determination. If it is found that unusually severe weather delayed the contract, a contract modification shall be issued pursuant to Gov. Code 2269
5. Claims for increase in the contract time shall set forth in writing the detail noting the circumstances that form the basis for the claim, the date upon which each cause of delay began to affect the progress of the work, the date upon which each cause of delay ceased to affect the progress of the work and the number of days increase in the contract time claimed as a consequence of each such cause of delay. The Contractor shall bear the entire economic risk of all weather delays and disruptions, and shall not be entitled to any increase in the Contract Price by reason of such delays or disruptions. Requests for an extension of time pursuant to this Subparagraph shall be submitted to the Architect in writing not later than the fifteenth (15th) day of the month following the month during which the delays or disruptions occurred, and shall include documentation demonstrating the nature and duration of the delays or disruptions. Where appropriate, a revised construction schedule indicating all the activities affected by the circumstances shall be included with the documentation.

END OF SECTION

SECTION 01 3216
CONSTRUCTION PROGRESS SCHEDULE**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Preliminary schedule.
- B. Construction progress schedule, bar chart type.

1.02 RELATED SECTIONS

- A. Section 01 1000 - Summary of Work.

1.03 REFERENCE STANDARDS

- A. AGC (CPSM) - Construction Planning and Scheduling Manual; 2004.
- B. M-H (CPM) - CPM in Construction Management - Project Management with CPM; 2015.

1.04 SUBMITTALS

- A. Within 14 days after date established in Notice to Proceed, submit preliminary schedule defining planned operations.
- B. If preliminary schedule requires revision after review, submit revised schedule within 7 days.
- C. Within 20 days after review of preliminary schedule, submit draft of proposed complete schedule for review.
 - 1. Include written certification that major Subcontractors have reviewed and accepted proposed schedule.
- D. Within 10 days after joint review, submit complete schedule.
- E. Submit updated schedule with each Application for Payment.
- F. Submit the number of opaque reproductions that Contractor requires, plus two copies that will be retained by Architect.
- G. Submit under transmittal letter form specified in Section 01 3000 - Administrative Requirements.
- H. Approval by the Owner and Owner's Representatives of the Contractor's Construction Schedule is advisory only and shall not relieve the Contractor of the responsibility for accomplishing the Work within each and every Contract-required Milestone and Completion date. Omissions and errors in the approved Construction Schedule shall not excuse performance, which is not in compliance with the Contract. Approval by the Owner and Owner's Representatives in no way makes the Owner or Owner's Representatives an insurer of the Construction Schedule's success or liable for time or cost overruns flowing from its shortcomings. The Owner hereby disclaims any obligation or liability by reason of Owner or Owner's Representatives approval of or acquiescence to the Construction Schedule.
- I. It is to be expressly understood and agreed by the Contractor that the schedule is an estimate to be revised from time to time as progress proceeds, and that the Owner does not guarantee that Contractor can start work activities on the early or late start dates or complete work activities on the early finish or late finish date shown in the schedule, or as same may be updated or revised; nor does the Owner or Owner's Representative guarantee that Contractor can proceed at all times in the sequence established by said schedule. If Contractor's schedule indicates that Owner or a separate contractor is to perform an activity by a specific date, or within a certain duration, Owner or any separate contractor under contract with Owner shall not be bound to said date or duration unless Owner expressly and specifically agrees, in writing, to same; the Owner's and / or the Owner's Representative's overall review and approval or acceptance of the schedule does not constitute an agreement to specific dates, duration or sequences for activities of the Owner or any separate contractor.

1.05 QUALITY ASSURANCE

- A. Scheduler: Contractor's personnel or specialist Consultant specializing in CPM scheduling with three years minimum experience in scheduling construction work of a complexity comparable to

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

this Project, and having use of computer facilities capable of delivering a detailed graphic printout within 48 hours of request.

- B. Contractor's Administrative Personnel: two years minimum experience in using and monitoring CPM schedules on comparable projects.

1.06 SCHEDULE FORMAT

- A. Listings: In chronological order according to the start date for each activity. Identify each activity with the applicable specification section number.
- B. Diagram Sheet Size: Width required.
- C. Sheet Size: Multiples of 8-1/2 x 11 inches.
- D. Scale and Spacing: To allow for notations and revisions.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRELIMINARY SCHEDULE

- A. Prepare preliminary schedule in the form of a horizontal bar chart.

3.02 CONTENT

- A. Critical Path Method (CPM) to show complete sequence of construction by activity, with dates for beginning and completion of each element of construction.
- B. Identify each item by specification section number.
- C. Identify work of phases, separate stages or proposed occupancies and other logically grouped activities.
- D. Provide sub-schedules for each stage of Work identified in Section 01 1000 - Summary.
- E. Include contract milestone dates and completion dates as specified in the contract.
- F. Provide sub-schedules to define critical portions of the entire schedule.
- G. Include conferences and meetings in schedule.
- H. Show accumulated percentage of completion of each item, and total percentage of Work completed, as of the first day of each month.
- I. Provide separate schedule of submittal dates for shop drawings, product data, and samples, owner-furnished products, Products identified under Allowances, and dates reviewed submittals will be required from Architect. Indicate decision dates for selection of finishes.
- J. Indicate delivery dates for owner-furnished products and Owner furniture or equipment scheduled for salvage and/or relocation in project.
- K. Indicate testing of materials.
- L. Indicate activity periods for punch list.
- M. Indicate the work to be performed during the facility's scheduled holidays, weekends, or summer recess periods.
- N. Coordinate content with schedule of values specified in Section 01 3000.
- O. Provide legend for symbols and abbreviations used.

3.03 BAR CHARTS

- A. Include a separate bar for each major portion of Work or operation.
- B. Identify the first work day of each week.
- C. The schedule diagram shall be a time-scaled drawing.
- D. The Construction Schedule Detailed Reports, initial submittal and subsequent updates or revisions, shall indicate each of the following:
 - 1. Description of activity including activity number/numbers.
 - 2. Estimated duration time or remaining duration for each activity.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

3. Early start date for each activity.
4. Late start date for each activity.
5. Early finish date for each activity.
6. Late finish date for each activity.
7. Float available for each path of activities containing float.
8. Actual start date for each activity begun.
9. Actual finish date for each activity completed.
10. Identification of all critical path activities in the mathematical analysis.
11. The critical path for the Project, with said path of activities being clearly and easily recognizable on the time-scaled graphic diagram, and the relationship between all non-critical activities and activities on the critical path shall be clearly shown on the graphic diagram.
12. The dollar value of each activity in relation to the schedule of values. This may be shown on a separate cost report.
13. The responsibility code for the Contractor or Subcontractor performing each activity or portion thereof.
14. The percentage complete of each activity in progress or complete.

3.04 SCHEDULE OF OFF-SITE ACTIVITIES

- A. The Contractor shall include in his Construction Schedule all procurement related activities which lead to the delivery of materials to the site in a timely manner. Upon written approval by the Project Manager, these activities may be submitted as a separate Off-Site Activities Schedule, properly correlated to the Construction Schedule. The schedule of off-site activities shall include, but is not limited to, the following:
 1. Dates for submittals, ordering, manufacturing or fabricating, and delivery of equipment and materials. Long lead items requiring more than one month between ordering and delivery to site shall be clearly noted;
 2. All significant activities to be performed by the Contractor during the fabrication and erection/installation in a Contractor's plant or on a job site, including materials/equipment purchasing, delivery; and
 3. Contractor's drawings and submittals to be prepared and submitted to the architect.
- B. The Contractor shall be solely responsible for expediting the delivery of all material to be furnished by him so that the construction progress shall be maintained according to the current schedule for the Work.
- C. The Owner's Representatives shall be advised, in writing, by the Contractor whenever it is anticipated by the Contractor that the delivery date of any material and/or equipment furnished by the Contractor for installation will be later than the delivery date shown on the schedule, subject to schedule updates.
- D. Submittals, equipment orders and similar items are to be treated as schedule activities, and shall be given appropriate activity numbers.

3.05 FLOAT TIME

- A. Float or slack time is defined as the amount of time between the earliest start date and the latest start date or between the earliest finish date and the latest finish date of an activity or a chain of activities on the Construction Schedule. Float or slack time is not for the exclusive use or benefit of either the Contractor or the Owner. Contractor's work shall proceed according to early start dates, and the Owner's Representatives shall have the right to reserve and apportion float time according to the needs of the Project. The Contractor acknowledges and agrees that actual delays, affecting paths of activities containing float time, will not have any affect upon Contract completion times, providing that the actual delay does not exceed the float time associated with those activities.
- B. Extensions of time for performance as described in the Contract Documents will be granted only to the extent that time adjustment for the activity or activities affected by any condition or event which entitles the Contractor to a time extension exceed the total float or slack along the path of

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

activities affected at the time of Notice to Proceed of a Change Order or the commencement of any delay or condition for which an adjustment is warranted under the Contract Document.

3.06 SCHEDULE UPDATES AND REPORTS

- A. Every month, in conjunction with the monthly application for payment, the Contractor shall submit an updated graphic diagram and an updated detailed schedule report from the Construction Schedule. Contractors Application for Payment shall not be approved for payment unless schedule is attached. The schedule shall be updated to show actual progress and the effect of delays and other events. The actual start and finish dates shall be included in the detailed report, as well as the actual dates of the Milestone events.
- B. The content of the updated Construction Schedule shall be equal to that noted in Section 1.02 Construction Schedule.
- C. The updated Construction Schedule submitted by Contractor shall not show a completion date later than the Contract Completion Date, subject to any time extensions approved by Owner.

3.07 REVIEW AND EVALUATION OF SCHEDULE

- A. Participate in joint review and evaluation of schedule with Architect at each submittal.
- B. Evaluate project status to determine work behind schedule and work ahead of schedule.
- C. After review, revise as necessary as result of review, and resubmit within 7 days.

3.08 UPDATING SCHEDULE

- A. Maintain schedules to record actual start and finish dates of completed activities.
- B. Indicate progress of each activity to date of revision, with projected completion date of each activity.
- C. Update diagrams to graphically depict current status of Work.
- D. Identify activities modified since previous submittal, major changes in Work, and other identifiable changes.
- E. Indicate changes required to maintain Date of Substantial Completion.
- F. Submit reports required to support recommended changes.
- G. Provide narrative report to define problem areas, anticipated delays, and impact on the schedule. Report corrective action taken or proposed and its effect including the effects of changes on schedules of separate contractors.

3.09 RECOVERY SCHEDULE

- A. Should the Contractor's Construction Schedule indicate that the progress of the work is behind schedule to the extent that any of the mandatory specific or milestone dates or completion dates are in jeopardy the Contractor shall be required to, at no extra cost to the Owner, prepare and submit to the Owner's Representatives a supplementary Recovery Schedule, in a form and detail appropriate to the need and explain and display how he intends to reschedule those activities to regain compliance with the Construction Schedule during the immediate subsequent pay period.

3.10 SCHEDULE REVISIONS

- A. Should the Contractor, after approval of the initial Construction Schedule, desire to change his plan in construction, he shall submit his required revisions to the Owner's Representatives along with a written statement of the revisions including a description of the logic for rescheduling the work, methods of maintaining adherence to intermediate Milestones and Specific Dates and the reasons for the revisions. The Contractor shall revise his schedule to include the effect of changes, acts of God, and other conditions or events, which have affected the Schedule. If the requested changes are acceptable to the Owner and Owner's Representatives, the changes will be incorporated into the Construction Schedule in the next reporting period.
- B. When the Owner orders changes by change Order which have the potential to impact the Contract Milestones or Specific Dates stipulated in the Supplemental Conditions, a Schedule will be prepared by the Contractor and provided to the Owner's Representatives for concurrence

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

or revision. After the proposed schedule revision has been mutually agreed upon, it will be incorporated into the Construction Schedule. Change Order logic will affect only those activities and performance data directly concerned. Adjustments in Scheduled intermediate Completion Dates or for the Contract as a whole will be considered only to the extent that there is insufficient remaining float to absorb these changes.

- C. Any change to the approved Construction Schedule must be approved, in writing, by the Owner and Contractor.
- D. Neither the updating or revision of Contractor's Construction Schedule nor the submission, updating, change or revision of any report or schedule submitted to Owner's Representatives by Contractor under this Section nor Owner's review or non-objection of any such report or schedule shall have the effect of amending or modifying, in any way, the Contract Time, any Contract Completion Date, or Contract Milestone Dates or of modifying or limiting in any way Contractor's obligations under this Contract.

3.11 REQUESTED TIME ADJUSTMENT SCHEDULE

- A. The updated Construction Schedule submitted by Contractor shall not show a completion date later than the Contract Time, subject to any time extensions approved by Owner:
 - 1. Provided, however, that if Contractor believes he is entitled to an extension of the Contract Time under the Contract Documents, Contractor shall submit to Owner's Representatives, with each progress payment update, a separate schedule analysis (entitled "Requested Time Adjustment Schedule") indicating suggested adjustments in the Contract Time which should, in the opinion of Contractor, be made in accordance with the Contract Documents by time extension, due to changes, delays or conditions occurring during the past month or previously, or which are expected or contemplated by Contractor (whether such conditions are excusable under the Contract or are alleged to be due to Contractor or Owner fault); this separate schedule, if submitted, shall be time-scaled utilizing a computer generated and computer-drawn Schedule analysis schedule, unless otherwise approved by the Owner's Representative and shall be accompanied or preceded by a formal time extension request as required by the Contract and a detailed narrative justifying the time extension requested.
- B. The time extension request shall include schedule forecasts that predict the actual Project Completion Date, and any separable portions thereof specified by Owner plus a forecast of the actual achievement of any milestones listed in the Owner-Contractor Agreement.
- C. To the extent any time extension requests are ending at the time of any update in the Construction Schedule, the "Requested Time Adjustment Schedule" shall also be updated each month, to reflect any adjustments made by Contractor in the logic, sequence or duration of any activities in the Construction Schedule, or any time extensions previously granted by Owner, and to reflect actual or expected progress, in order that the "Requested Time Adjustment Schedule" shall clearly and accurately reflect Contractor's Actual intention and proposed time adjustments as of the latest update.
- D. Neither the Owner, the Project Manager or the Architect shall have any obligation to consider any time extension request unless the requirements of the Contract Documents, and specifically, but not limited to these requirements, are complied with; and Owner shall not be responsible or liable to Contractor for any constructive acceleration due to failure of Owner to grant time extensions under the Contract Documents should Contractor fail to substantially comply with the submission requirements and the justification requirements of this Contract for time extension requested. Contractor's failure to perform in accordance with the Construction Schedule shall not be excused, nor be chargeable to Owner, because Contractor has submitted time extension requests or the "Requested Time Adjustment Schedule".

3.12 DISTRIBUTION OF SCHEDULE

- A. Distribute copies of updated schedules to Contractor's project site file, to subcontractors, suppliers, Architect, Owner, and other concerned parties.

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

- B. Instruct recipients to promptly report, in writing, problems anticipated by projections shown in schedules.

END OF SECTION

SECTION 01 4000

QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Submittals.
- B. References and standards.
- C. Testing and inspection agencies and services.
- D. Control of installation.
- E. Mock-ups.
- F. Tolerances.

1.02 RELATED REQUIREMENTS

- A. Section 01 4516 - Contractor Quality Control. Testing and Inspection services.
- B. Section 01 4533 - Code-Required Quality Control.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

1.04 REFERENCES AND STANDARDS

- A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- C. Obtain copies of standards where required by product specification sections.
- D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
- E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

1.05 TESTING AND INSPECTION AGENCIES AND SERVICES

- A. A Special Inspection and Testing Agency (SITA) will perform field quality control tests and inspections, as specified in specification Section 01 4516 - Contractor's Quality Control and Section 01 4533 - Code-Required Quality Control.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Have Work performed by persons qualified to produce required and specified quality.
- F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 MOCK-UPS

- A. Before installing portions of the Work where mock-ups are required, for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work. The purpose of mock-up is to demonstrate the proposed range of aesthetic effects and workmanship.
- B. Obtain Architect's approval of mock-ups before starting work, fabrication, or construction.
 - 1. Make corrections as necessary until Architect's approval is issued.
- C. Accepted mock-ups shall be a comparison standard for the remaining Work.

3.03 TOLERANCES

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

3.04 MANUFACTURERS' FIELD SERVICES

- A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and balance of equipment as applicable, and to initiate instructions when necessary.
- B. Submit qualifications of observer to Architect 30 days in advance of required observations.
 - 1. Observer subject to approval of Architect.
 - 2. Observer subject to approval of Owner.
- C. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

3.05 DEFECT ASSESSMENT

- A. Replace Work or portions of the Work not conforming to specified requirements.
- B. If, in the opinion of Architect and Owner, it is not practical to remove and replace the Work, Owner will direct an appropriate remedy or adjust payment.

END OF SECTION

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

**01 4100
REGULATORY REQUIREMENTS**

PART 1 GENERAL**SUMMARY OF REFERENCE STANDARDS**

- A. Related Documents: General and Supplementary Conditions of the Contract, Division 01 General Requirements, and Drawings are applicable to this Section.
- B. Section Includes, but is not limited to:
 - 1. Permits and fees.
 - 2. Code and regulatory compliance for the associated Work.

1.02 RELATED REQUIREMENTS

- A. Section 01 4000 - Quality Requirements.

1.03 PERMITS AND FEES

- A. The Owner will pay for all City and/or State Building Permits, Impact Fees, and other Building Fees related to the project. The Contractor and Subcontractors will be responsible for obtaining all required trade permits or license fees.
- B. Once General Contractor is in possession of the final construction permits (building permits), Contractor shall be responsible for submitting to the AHJ, approved request for pricing (RFP), change orders, or other documents that contain significant changes to the contract until construction is complete. Contractor shall pay for permits or fees associated with any required changes.

1.04 BUILDING CODES

- A. Building Code Compliance: Reference drawings for year editions used in document design.
 - 1. Building Code – International Building Code
 - 2. Plumbing Code – International Plumbing Code
 - 3. Mechanical Code – International Mechanical Code
 - 4. Electrical Code – National Electrical Code
 - 5. Life Safety Code – NFPA 101
- B. Energy Code Compliance
 - 1. Energy Code – International Energy Code.
 - 2. Contractor shall provide, at the jobsite office, one copy of the completed energy code review.
- C. Accessibility Compliance
 - 1. Accessibility requirements are from the 2010 ADA Standards for Accessible Design, and the 2012 Texas Accessibility Standards of the Architectural Barriers Act.
 - 2. The information contained in this section is provided to identify the modifications provided for users who are not served by adult standards. It shall be the Contractors responsibility to be familiar with the standards and to apply the standards to all aspects of the project. Any apparent conflict between current standards and the drawings shall be brought to the architect's attention for clarification. The information in the drawings does not release the contractor from full compliance with the latest TAS requirements.
 - 3. Contractor shall provide, at the jobsite office, one copy of the 2012 Texas Accessibility Standard (TAS) regulations as prepared by the Texas Department of Licensing and Regulation, concerning handicap accessibility. The Contractor shall conform to the regulations as set forth in the TAS. Copies can be obtained at Texas Department of Licensing and Regulation, P.O. Box 12157, Austin, TX; 512-539-5669 / Fax 512-539-5690; www.license.state.tx.us. Copies may be downloaded from

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

<http://www.license.state.tx.us/ab/abtas.htm>.

4. Federal Register:
 - a. Vol. 56, No. 144, July 26, 1991, Rules and Regulations; Appendix A to part 36 – Standards for Accessible Design.
 - b. 5 U.S.C. 552(a) and 1 C.F.R. part 51, Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.
5. Texas Accessibility Standards
 - a. The Elimination of Architectural Barriers Texas Government Code, Chapter 469, effective March 15, 2012.

1.05 ACCESSIBILITY REQUIREMENTS

- A. Dimensional Tolerances
 1. Any dimension less than the minimum or more than the maximum will be rejected upon inspection and subject to correction.

1.06 QUALITY ASSURANCE

- A. Designer Qualifications: Where delegated engineering design is to be performed under the construction contract provide the direct supervision of a Professional Engineer experienced in design of this type of work and licensed in Texas.
 1. The General Contractor or Construction Manager shall comply with the Texas Professional Services Procurement Act when selecting an Engineer for Delegated Design Services.

PART 2 PRODUCTS

2.01 GENERAL

- A. Contractor shall note that no regulatory agency designates products with a formal “ADA Approved” designation. Contractor shall be responsible for ensuring all products are reviewed for accessibility compliance.

PART 3 EXECUTION

3.01 REPAIR

- A. Non-Compliant Work
 1. The Contractor shall be responsible for removing and correcting all work that is found to be in non-compliance.
 2. The Contractor shall perform all work at no expense to the Owner.
 3. The Contractor shall be responsible to perform all repairs regardless of the date at which the non-compliant items are found.
- B. The work shall be performed such that there will be no disruption to the Owners schedule.

END OF SECTION

SECTION 01 4516**CONTRACTOR'S QUALITY CONTROL****PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Control of installation.
- B. Testing and inspection services by one or more quality assurance laboratories to be employed by the Contractor (if these services are not provided by subcontractors or material suppliers). The purpose of quality assurance services are so that the Contractor can verify work is done properly during construction, before the Contractor requests that the Owner's Independent Quality Control Agency performs code-required special inspections, tests and structural observations. The Contractor's QA Laboratory testing and inspection services shall include, but not be limited to:
 - 1. Testing, inspection, and certifications specified in sections of Project Manual other than Section 01 4533. This quality assurance testing shall be paid by the Contractor.
 - 2. Masonry unit compressive strength verification
 - 3. Structural Steel quality assurance recommended by AISC
 - 4. Certification of No Asbestos Containing Materials
- C. References and standards.
- D. Manufacturers' field services.

1.02 RELATED REQUIREMENTS

- A. Section 01 3000 - Administrative Requirements: Submittal procedures.
- B. Section 01 4000 - Quality Requirements
- C. Section 01 4533 - Code Required Quality Control
- D. Section 01 6000 - Product Requirements: Requirements for material and product quality.

1.03 REFERENCE STANDARDS

- A. ASTM C1021 - Standard Practice for Laboratories Engaged in Testing of Building Sealants; 2008 (Reapproved 2014).
- B. ASTM C1077 - Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation; 2014.
- C. ASTM C1093 - Standard Practice for Accreditation of Testing Agencies for Masonry; 2013.
- D. ASTM D3740 - Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction; 2012a.
- E. ASTM E329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection; 2014a.
- F. ASTM E543 - Standard Specification for Agencies Performing Nondestructive Testing; 2013.
- G. IAS AC89 - Accreditation Criteria for Testing Laboratories; 2010.

1.04 QUALITY ASSURANCE (OF CONTRACTOR'S QUALITY ASSURANCE LABORATORY)

- A. Contractor's QA Laboratory Qualifications and Procedures:
 - 1. Meet "Recommended Requirements for Independent Laboratory Qualification," latest edition published by American Council of Independent Laboratories. Testing agencies shall meet the requirements of ASTM E 329, "Recommended Practice for Inspection and Testing Agencies for Concrete, Steel and Bituminous Materials as Used in Construction" and ASTM E 543, "Determining the Qualification of Nondestructive Testing Agencies."
 - 2. The inspection and testing services of the testing agency shall be under the direction of a Registered Engineer licensed in the State of Texas, charged with engineering managerial responsibility, and having at least five years engineering experience in inspection and testing of construction materials.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

3. Inspecting personnel monitoring concrete work shall be ACI certified inspectors.
4. Submit copy of report of inspection of facilities made by Materials Reference Laboratory of National Bureau of Standards during most recent tour of inspection. Include memorandum of remedies of deficiencies reported by this inspection.
5. Testing Equipment: Calibrated at reasonable intervals by devices of accuracy traceable to either National Bureau of Standards or accepted values of natural physical constants.
6. Tests and inspections shall be conducted in accordance with specified requirements and if not specified, in accordance with applicable standards of the American Society for Testing and Materials and other recognized authorities as approved.
7. Primary inspectors performing structural steel inspection shall be currently certified AWS Certified Welding Inspectors (CWI), in accordance with the provisions of AWS QCI, "Standard and Guide for Qualification and Certification of Welding Inspectors." The inspector may be supported by assistant inspectors who may perform specific inspection functions under the supervision of the inspector. Assistant inspectors shall be currently certified AWS Certified Associate Welding Inspectors (CAWI). The work of assistant inspectors shall be regularly monitored by the inspector, generally on a daily basis.

1.05 REFERENCES AND STANDARDS

- A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- C. Obtain copies of standards where required by product specification sections.
- D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
- E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

- A. See Section 01 4000 - Quality Requirements

3.02 GENERAL REQUIREMENTS FOR CONTRACTOR'S LABORATORY SERVICES

- A. The Contractor shall perform various tests as required in the various specification sections for conference to the construction documents other than those in Section 01 4533. The Owner maintains the right to verify the test results with an independent testing lab.
- B. Contractor's design testing and certification testing includes:
 1. Testing defined in this Specification Section.
 2. Testing when source of material is changed after initial tests have been performed.
 3. Other testing required by other Sections of the Specifications.

3.10 CERTIFICATION OF NO ASBESTOS CONTAINING MATERIAL

- A. The Contractor shall provide the Architect a written certification of the following:
 1. Hazardous material-free construction – certify that no asbestos containing material was used and/or incorporated into the project during construction.
 2. The statement shall be as follows:

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

- a. The undersigned, pursuant to the General and Supplementary Conditions of the Contract for Construction, hereby certifies that to the best of his/her knowledge, information and belief, the materials incorporated into the project and as used during the construction process are free of any type of asbestos material, lead, polychlorinated biphenyl (PCB) or other materials identified by governmental agencies as being hazardous.

3.11 MANUFACTURERS' FIELD SERVICES

- A. See Section 01 4000 - Quality Requirements

3.12 DEFECT ASSESSMENT:

- A. See Section 01 4000 - Quality Requirements

END OF SECTION

SECTION 01 5000
TEMPORARY FACILITIES AND CONTROLS**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Temporary utilities.
- B. Temporary sanitary facilities.
- C. Temporary Controls: Barriers, enclosures, and fencing.
- D. Security requirements.
- E. Vehicular access and parking.
- F. Waste removal facilities and services.
- G. Project identification sign.
- H. Field offices.

1.02 RELATED REQUIREMENTS**1.03 TEMPORARY UTILITIES**

- A. Provide and pay for all electrical power, lighting, water, heating and cooling, and ventilation required for construction purposes including review and inspection of work.
- B. New permanent facilities may not be used.
- C. Use trigger-operated nozzles for water hoses, to avoid waste of water.

1.04 TEMPORARY SANITARY FACILITIES

- A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
- B. Use of existing facilities is not permitted.
- C. New permanent facilities may not be used during construction operations.
- D. Maintain daily in clean and sanitary condition.
- E. At end of construction, return facilities to same or better condition as originally found.

1.05 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas. Protect existing facilities and adjacent properties from damage from construction operations and demolition. Implement safety precautions that comply with all regulatory requirements.
- B. Provide barricades and covered walkways required by governing authorities for public rights-of-way and for public access to existing building.
- C. Provide protection for plants designated to remain. Replace damaged plants.
- D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.06 EXTERIOR ENCLOSURES

- A. Provide temporary weather tight closure of exterior openings to accommodate acceptable working conditions and protection for Products, to allow for temporary heating and maintenance of required ambient temperatures identified in individual specification sections, and to prevent entry of unauthorized persons. Provide access doors with self-closing hardware and locks.

1.07 INTERIOR ENCLOSURES

- A. Provide temporary partitions and ceilings as indicated to separate work areas from Owner-occupied areas, to prevent penetration of dust and moisture into Owner-occupied areas, and to prevent damage to existing materials and equipment.
- B. Construction: Framing and plywood sheet materials with closed joints and sealed edges at

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

intersections with existing surfaces:

1. STC rating of 35 in accordance with ASTM E90.
 2. Maximum flame spread rating of 75 in accordance with ASTM E84.
- C. Paint surfaces exposed to view from Owner-occupied areas.

1.08 SECURITY

- A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.
- B. Coordinate with Owner's security program.

1.10 VEHICULAR ACCESS AND PARKING

- A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.
- B. Coordinate access and haul routes with governing authorities and Owner.
- C. Provide and maintain access to fire hydrants, free of obstructions.
- D. Provide means of removing mud from vehicle wheels before entering streets.
- E. Designated existing on-site roads may be used for construction traffic.
- F. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.
- G. Do not allow vehicle parking on existing pavement.

1.11 WASTE REMOVAL

- A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- B. If materials to be recycled or re-used on the project must be stored on-site, provide suitable and secure non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.
- C. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

1.12 PROJECT IDENTIFICATION

- A. No later than ten (10) days after the Notice to Proceed, and prior to start of construction, provide a job sign at the job site.
- B. Request sign layout and details from the Architect.
- C. Reference Section 01 2100 - Allowances for cash allowance for project sign.
- D. Contractor shall be responsible to pick up sign.
- E. Provide project identification sign of design and construction indicated on Drawings.
- F. Erect on site at location indicated.
- G. No other signs are allowed without Architect's permission except those required bylaw.

1.13 FIELD OFFICES

- A. Provide space for Project meetings, with table and chairs to accommodate 6 persons.

1.14 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, prior to final punch list and review inspection.
- B. Remove underground installations to a minimum depth of 3 feet. Grade site as indicated.
- C. Clean and repair damage caused by installation or use of temporary work.
- D. Restore existing facilities used during construction to original condition.
- E. Restore new permanent facilities used during construction to specified condition.

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 6000
PRODUCT REQUIREMENTS**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. General product requirements.
- B. Re-use of existing products.
- C. Transportation, handling, storage and protection.
- D. Product option requirements.
- E. Procedures for Owner-supplied products.
- F. Maintenance materials, including extra materials, spare parts, tools, and software.

1.02 RELATED REQUIREMENTS

- A. Section 01 4000 - Quality Requirements: Product quality monitoring.

1.03 REFERENCE STANDARDS

- A. 16 CFR 260.13 - Guides for the Use of Environmental Marketing Claims; Federal Trade Commission; Recycled Content; Current Edition.
- B. CAN/CSA Z809 - National Standard for Sustainable Forest Management; CSA International Inc; 2016.
- C. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 SUBMITTALS

- A. Shop drawings, product data, and samples under provisions of Section 01 3000.

PART 2 PRODUCTS**2.01 EXISTING PRODUCTS**

- A. Do not use materials and equipment removed from existing premises unless specifically required or permitted by the Contract Documents.
- B. Unforeseen historic items encountered remain the property of the Owner; notify Owner promptly upon discovery; protect, remove, handle, and store as directed by Owner.
- C. Existing materials and equipment indicated to be removed, but not to be re-used, relocated, reinstalled, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor; remove from site.
- D. Specific Products to be Reused: The reuse of certain materials and equipment already existing on the project site is not prohibited.
 - 1. If reuse of other existing materials or equipment is desired, submit substitution request.
 - 2. All items called for on the drawings to be salvaged, removed and relocated shall be inventoried, removed and stored until such time as they are to be installed in their new location. The inventory list shall be given to the Owner and shall include an itemized list that includes quantities, descriptions and condition of each item. These items are considered to be in good operating condition at the time the contract is signed, and shall remain the property of Owner. These items shall be properly protected by the contractor and removed by him, complete, including all appurtenances and reinstalled in their new location in good working order with any modifications called for by the drawings.

2.02 NEW PRODUCTS

- A. Provide new products unless specifically required or permitted by the Contract Documents.
- B. Where all other criteria are met, Contractor shall give preference to products that:

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

1. Are extracted, harvested, and/or manufactured closer to the location of the project.
 2. Have longer documented life span under normal use.
 3. Result in less construction waste.
- C. Provide interchangeable components of the same manufacture for components being replaced unless noted otherwise in the contract documents.

2.03 PRODUCT OPTIONS

- A. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- B. Products Specified by Naming One or More Manufacturers.

2.04 MAINTENANCE MATERIALS

- A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
- B. Deliver to Project site and place in location as directed; obtain receipt prior to final payment.

PART 3 EXECUTION**3.01 OWNER-SUPPLIED PRODUCTS – APPLIES IF NOTED ON DOCUMENTS**

- A. Owner's Responsibilities:
1. Arrange for and deliver Owner reviewed shop drawings, product data, and samples, to Contractor.
 2. Arrange and pay for product delivery to site.
 3. On delivery, inspect products jointly with Contractor.
 4. Submit claims for transportation damage and replace damaged, defective, or deficient items.
 5. Arrange for manufacturers' warranties, inspections, and service.
- B. Contractor's Responsibilities:
1. Review Owner reviewed shop drawings, product data, and samples.
 2. Receive and unload products at site; inspect for completeness or damage jointly with Owner.
 3. Handle, store, install and finish products.
 4. Repair or replace items damaged after receipt.

3.02 TRANSPORTATION AND HANDLING

- A. Package products for shipment in manner to prevent damage; for equipment, package to avoid loss of factory calibration.
- B. If special precautions are required, attach instructions prominently and legibly on outside of packaging.
- C. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- D. Transport and handle products in accordance with manufacturer's instructions.
- E. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- F. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged in manufacturer's original container with labels intact and legible.
1. Maintain packaged materials with seals unbroken and labels intact until time of use.
 2. Promptly remove damaged material and unsuitable items from the job site, and promptly replace with material meeting the specified requirements, at no additional cost to the Owner.
- G. The Architect may reject as non-complying such material and products that do not bear identification and satisfactory to the Architect as to manufacturer, grade, quality, and other

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

pertinent information.

- H. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage, and to minimize handling.
- I. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

3.03 STORAGE AND PROTECTION

- A. Designate receiving/storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.
- B. Store and protect products in accordance with manufacturers' instructions. Failure to comply will result in rejection of products for use on job.
- C. Store with seals and labels intact and legible.
- D. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.
- E. For exterior storage of fabricated products, place on sloped supports above ground.
- F. Provide bonded off-site storage and protection when site does not permit on-site storage or protection.
- G. Protect products from damage or deterioration due to construction operations, weather, precipitation, humidity, temperature, sunlight and ultraviolet light, dirt, dust, and other contaminants.
- H. Comply with manufacturer's warranty conditions, if any.
- I. Do not store products directly on the ground.
- J. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- K. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- L. Prevent contact with material that may cause corrosion, discoloration, or staining.
- M. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- N. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.
- O. In event of damage, promptly make replacements and repairs to the approval of the Architect and at no additional cost to the Owner.
- P. Additional time required to secure replacements and to make repairs will not be considered by the Architect to justify an extension in the Contract Time of Completion.

END OF SECTION

SECTION 01 7000

EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Examination, preparation, and general installation procedures.
- B. Requirements for alterations work, including selective demolition, except removal, disposal, and/or remediation of hazardous materials and toxic substances.
- C. Pre-installation meetings.
- D. Cutting and patching.
- E. Surveying for laying out the work.
- F. Cleaning and protection.
- G. Starting of systems and equipment.
- H. Demonstration and instruction of Owner personnel.
- I. Closeout procedures, including Contractor's Correction Punch List, except payment procedures.
- J. General requirements for maintenance service.

1.02 RELATED REQUIREMENTS

- A. Section 01 1000 - Summary: Limitations on working in existing building; continued occupancy; work sequence; identification of salvaged and relocated materials.
- B. Section 01 3000 - Administrative Requirements: Submittals procedures, Electronic document submittal service.
- C. Section 01 4000 - Quality Requirements: Testing and inspection procedures.
- D. Section 01 5000 - Temporary Facilities and Controls: Temporary exterior enclosures.
- E. Section 01 7800 - Closeout Submittals: Project record documents, operation and maintenance data, certifications and inspections, warranties and bonds.
- F. Section 01 7900 - Demonstration and Training: Demonstration of products and systems to be commissioned and where indicated in specific specification sections
- G. Individual Product Specification Sections:
 - 1. Advance notification to other sections of openings required in work of those sections.
 - 2. Limitations on cutting structural and load bearing members.

1.03 REFERENCE STANDARDS

- A. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2013.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Cutting and Patching: Submit written request in advance of cutting or alteration that affects:
 - 1. Structural integrity of any element of Project.
 - 2. Integrity of weather exposed or moisture resistant element.
 - 3. Efficiency, maintenance, or safety of any operational element.
 - 4. Visual qualities of sight exposed elements.
 - 5. Work of Owner or separate Contractor.
- 6. Include in request:
 - a. Identification of Project.
 - b. Location and description of affected work.
 - c. Necessity for cutting or alteration.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- d. Description of proposed work and products to be used.
- e. Effect on work of Owner
- f. Date and time work will be executed.

1.05 QUALIFICATIONS

- A. For demolition work, employ a firm specializing in the type of work required.
 - 1. Minimum of 5 years of documented experience.
- B. For surveying work, employ a land surveyor registered in Texas and acceptable to Architect. Submit evidence of surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate. Employ only individual(s) trained and experienced in collecting and recording accurate data relevant to ongoing construction activities,
- C. For field engineering, employ a professional engineer of the discipline required for specific service on Project, licensed in Texas. Employ only individual(s) trained and experienced in establishing and maintaining horizontal and vertical control points necessary for laying out construction work on project of similar size, scope and/or complexity.
- D. For design of temporary shoring and bracing, employ a Professional Engineer experienced in design of this type of work and licensed in Texas.

1.06 PROJECT CONDITIONS

- A. Use of explosives is not permitted.
- B. Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.
- C. Dust Control: Execute work by methods to minimize raising dust from construction operations. Provide positive means to prevent air-borne dust from dispersing into atmosphere and over adjacent property.
 - 1. Provide dust-proof enclosures to prevent entry of dust generated outdoors.
 - 2. Provide dust-proof barriers between construction areas and areas continuing to be occupied by Owner.
- D. Noise Control: Provide methods, means, and facilities to minimize noise produced by construction operations.
 - 1. Outdoors: Limit conduct of especially noisy exterior work to the hours of 8 am to 5pm.
 - 2. Indoors: Limit conduct of especially noisy interior work to 8 am to 5pm.
- E. Pest and Rodent Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.
 - 1. Pest Control Service: Monthly treatments
- F. Rodent Control: Provide methods, means, and facilities to prevent rodents from accessing or invading premises.
- G. Pollution Control: Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations. Comply with federal, state, and local regulations.

1.07 COORDINATION

- A. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- B. Notify affected utility companies and comply with their requirements.
- C. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- D. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on drawings. Follow routing indicated for pipes, ducts, and

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.

- E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
- F. Coordinate completion and clean-up of work of separate sections.
- G. After Owner occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

- A. New Materials: As specified in product sections; match existing products and work for patching and extending work.
- B. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.
- B. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.
- C. Examine and verify specific conditions described in individual specification sections.
- D. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.
- E. Verify that utility services are available, of the correct characteristics, and in the correct locations.
- F. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.
- G. Prior to start of work, photo and/or video document all portions of the building.

3.02 PREPARATION

- A. Clean substrate surfaces prior to applying next material or substance.
- B. Seal cracks or openings of substrate prior to applying next material or substance.
- C. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

3.03 PREINSTALLATION MEETINGS

- A. When required in individual specification sections, Contractor will convene a preinstallation meeting at the site prior to commencing work of the section.
- B. Require attendance of parties directly affecting, or affected by, work of the specific section. Contractor, subcontractor, and manufacturer's representative shall be present.
- C. Notify Architect seven (7) days in advance of meeting date.
- D. Prepare agenda and preside at meeting:
 - 1. Review approved submittals.
 - 2. Review conditions of examination, preparation and installation procedures.
 - 3. Review coordination with related work.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

4. Installation schedule.
- E. Record minutes and distribute copies within two days after meeting to participants, with one copies to Architect, Owner, participants, and those affected by decisions made.
- F. Pre-installation meeting shall not be scheduled until approved submittals are verified by the Contractor.

3.04 GENERAL INSTALLATION REQUIREMENTS

- A. In addition to compliance with regulatory requirements, conduct construction operations in compliance with NFPA 241, including applicable recommendations in Appendix A.
- B. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste due to necessity for replacement.
- C. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
- D. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
- E. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
- F. Make neat transitions between different surfaces, maintaining texture and appearance.

3.05 NOTIFICATION OF ARCHITECT

- A. The Contractor shall notify the Architect a minimum of 48 hours prior to the covering up of any work in progress, in order for the architect to make proper field observations of the work in place. The Contractor shall place NO concrete, fill-in ditches, or cover up walls or ceilings without first contacting the Architect, as noted above and receiving approval.

3.06 ALTERATIONS

- A. Drawings showing existing construction and utilities are based on casual field observation and existing record documents only.
 1. Verify that construction and utility arrangements are as indicated.
 2. Report discrepancies to Architect before disturbing existing installation.
 3. Beginning of alterations work constitutes acceptance of existing conditions.
- B. Keep areas in which alterations are being conducted separated from other areas that are still occupied.
 1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 01 5000 in locations indicated on drawings.
 2. Provide sound retardant partitions of construction indicated on drawings in locations indicated on drawings.
- C. Maintain weatherproof exterior building enclosure except for interruptions required for replacement or modifications; take care to prevent water and humidity damage.
 1. Where openings in exterior enclosure exist, provide construction to make exterior enclosure weatherproof.
 2. Insulate existing ducts or pipes that are exposed to outdoor ambient temperatures by alterations work.
- D. Remove existing work as indicated and as required to accomplish new work.
 1. Remove rotted wood, corroded metals, and deteriorated masonry and concrete; replace with new construction specified.
 2. Remove items indicated on drawings.
 3. Relocate items indicated on drawings.
 4. Where new surface finishes are to be applied to existing work, perform removals, patch, and prepare existing surfaces as required to receive new finish; remove existing finish if necessary for successful application of new finish.
 5. Where new surface finishes are not specified or indicated, patch holes and damaged surfaces to match adjacent finished surfaces as closely as possible.
- E. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical,

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

Telecommunications, and Technology): Remove, relocate, and extend existing systems to accommodate new construction.

1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components; if necessary, modify installation to allow access or provide access panel.
 2. Where existing systems or equipment are not active and Contract Documents require reactivation, put back into operational condition; repair supply, distribution, and equipment as required.
 3. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
 - a. Disable existing systems only to make switchovers and connections; minimize duration of outages.
 - b. Provide temporary connections as required to maintain existing systems in service.
 4. Verify that abandoned services serve only abandoned facilities.
 5. Remove abandoned pipe, ducts, conduits, and equipment including those above acoustical lay-in ceilings and gypsum board/hard ceilings; remove back to source of supply where possible, otherwise cap stub and tag with identification; patch holes left by removal using materials specified for new construction.
- F. Protect existing work to remain.
1. Prevent movement of structure; provide shoring and bracing if necessary.
 2. Perform cutting to accomplish removals neatly and as specified for cutting new work.
 3. Repair adjacent construction and finishes damaged during removal work.
- G. Adapt existing work to fit new work: Make as neat and smooth transition as possible.
1. When existing finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at a natural line of division and make recommendation to Architect.
 2. Where removal of partitions or walls results in adjacent spaces becoming one, rework floors, walls, and ceilings to a smooth plane without breaks, steps, or bulkheads.
 3. Where a change of plane of 1/4 inch or more occurs in existing work, submit recommendation for providing a smooth transition for Architect review and request instructions.
- H. Patching: Where the existing surface is not indicated to be refinished, patch to match the surface finish that existed prior to cutting. Where the surface is indicated to be refinished, patch so that the substrate is ready for the new finish.
- I. Refinish existing surfaces as indicated:
1. Where rooms or spaces are indicated to be refinished, refinish all visible existing surfaces to remain to the specified condition for each material, with a neat transition to adjacent finishes.
 2. If mechanical or electrical work is exposed accidentally during the work, re-cover and refinish to match.
- J. Clean existing systems and equipment.
- K. Remove demolition debris and abandoned items from alterations areas and dispose of off-site; do not burn or bury.
- L. Do not begin new construction in alterations areas before demolition is complete.
- M. Comply with all other applicable requirements of this section.

3.07 CUTTING AND PATCHING

- A. Whenever possible, execute the work by methods that avoid cutting or patching.
- B. See Alterations article above for additional requirements.
- C. Perform whatever cutting and patching is necessary to:

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

1. Complete the work.
 2. Fit products together to integrate with other work.
 3. Provide openings for penetration of mechanical, electrical, and other services.
 4. Match work that has been cut to adjacent work.
 5. Repair areas adjacent to cuts to required condition.
 6. Repair new work damaged by subsequent work.
 7. Remove samples of installed work for testing when requested.
 8. Remove and replace defective and non-conforming work.
- D. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
- E. Employ skilled and experienced installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
- F. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
- G. Restore work with new products in accordance with requirements of Contract Documents.
- H. Fit work air tight at interior and weathertight at exterior to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- I. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07 8400, to full thickness of the penetrated element.
- J. Patching:
1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
 2. Match color, texture, and appearance.
 3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

3.08 PROGRESS CLEANING

- A. General:
1. Retain stored items in an orderly arrangement allowing maximum access, not impeding traffic or drainage, and providing required protection of materials.
 2. Do not allow accumulation of scrap, debris, waste material, and other items not required for construction of this Work.
 3. At least twice each month, and more often if necessary, completely remove all scrap, debris, and waste material from the job site.
 4. Provide adequate storage for all items awaiting removal from the job site, observing requirements for fire protection and protection of the ecology.
- B. Site:
1. Daily, and more often if necessary, inspect the site and pick up all scrap, debris, and waste material. Remove such items to the place designated for their storage.
 2. Weekly, and more often if necessary, inspect all arrangements of materials stored on the site. Restack, tidy, or otherwise service arrangements to meet the requirements of subparagraph A.1 above.
 3. Maintain the site in a neat and orderly condition at all times.
- C. Structures:
1. Weekly, and more often if necessary, inspect the structures and pick up all scrap, debris, and waste material. Remove such items to the place designated for their storage.
 2. Weekly, and more often if necessary, sweep interior spaces clean.
 - a. "Clean", for the purpose of this subparagraph, shall be interpreted as meaning free

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

from dust and other material capable of being removed by use of reasonable effort and a hand-held broom.

3. As required preparatory to installation of succeeding materials, clean the structures or pertinent portions thereof to the degree of cleanliness recommended by the manufacturer of the succeeding material, using equipment and materials required to achieve the necessary cleanliness.
4. Following the installation of finish floor materials, clean the finish floor daily (and more often if necessary) at all times while work is being performed in the space in which finish materials are installed. Damaged floors will be removed and replaced.
 - a. "Clean", for the purpose of this subparagraph, shall be interpreted as meaning free from foreign material which, in the opinion of the Architect, may be injurious to the finish floor material.

3.10 PROTECTION OF INSTALLED WORK

- A. Protect installed work from damage by construction operations.
- B. Provide special protection where specified in individual specification sections.
- C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- D. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- F. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- G. Prohibit traffic from landscaped areas.
- H. Remove protective coverings when no longer needed; reuse or recycle coverings if possible.

3.11 FINAL CLEANING

- A. "Clean", for the purpose of this Article, and except as may be specifically provided otherwise, shall be interpreted as meaning the level of cleanliness generally provided by skilled cleaners using commercial quality building maintenance equipment and materials.
- B. The Contractor shall have initial cleaning complete prior to the Architect performing the "Punch List" walkthrough. The building shall be thoroughly (ready for occupancy) cleaned prior to the Owner acceptance (Substantial Completion) of the building.
- C. Prior to completion of the Work, remove from the job site all tools, surplus materials, equipment, scrap, debris, and waste. Conduct final progress cleaning as described in the Article above.
- D. Site:
 1. Unless otherwise specifically directed by the Architect, broom clean paved areas on the site and public paved areas adjacent to the site. Powerwash paved surfaces, as required, to remove any stains caused by construction materials, vehicles, or workers, as approved by the Architect, and at no additional cost to the Owner.
 2. Completely remove resultant debris.
- E. Structures:
 1. Exterior:
 - a. Visually inspect exterior surfaces and remove all traces of soil, waste materials, smudges, and other foreign matter.
 - b. Remove all traces of splashed materials from adjacent surfaces.
 - c. If necessary to achieve a uniform degree of cleanliness, hose down the exterior of the structure.
 - d. In the event of stubborn stains not removable with water, the Architect may require light sandblasting or other cleaning at no additional cost to the Owner.
 2. Interior:

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- a. Visually inspect all interior surfaces (floors, walls, ceilings, fixtures, furniture, appliances, and equipment) and remove all traces of soil, waste materials, smudges, and other foreign matter.
- b. Remove all traces of splashed material from adjacent surfaces.
- c. Remove paint droppings, spots, stains, and dirt from finished surfaces.
- 3. Glass: Clean inside and outside.
- 4. Polished surfaces: To surfaces requiring routine application of buffed polish, apply the polish recommended by the manufacturer of the material being polished.
- F. Schedule final cleaning as approved by the Architect to enable the Owner to accept a completely clean Work.

3.12 CLEANING DURING OWNER'S OCCUPANCY

- A. Should the Owner occupy the Work or any portion thereof prior to its completion by the Contractor and acceptance by the Owner, responsibilities for interim and final cleaning shall be as determined by the Architect in accordance with the General Conditions of the Contract.

3.13 CLOSEOUT PROCEDURES

- A. Project Closeout
 - 1. No later than 60 days prior to Project Completion, as scheduled on the Contractors Critical Path Schedule, the Contractor shall:
 - a. Develop a Project Completion List for any and all tasks that remain along with a schedule for the completion of each. This list and schedule shall be written and delivered to the Owner and Architect.
 - b. Provide "hands-on" training to the Owner of all major systems as identified in Section 01 7800 – Closeout Submittals
- B. Substantial Completion
 - 1. Prior to requesting inspection by the Architect, use adequate means to assure that the Work is completed in accordance with the specified requirements and is ready for the requested inspection.
 - 2. No later than 30 days prior to the scheduled Substantial Completion date the Contractor shall call for a project walk through to determine if the project is substantially complete.
 - a. The Contractor shall prepare and submit a list of deficiency items as required by Paragraph 9.8.2 of the General Conditions. This list shall be submitted to the Architect a minimum of 7 days prior to the scheduled walk through.
 - b. The Contractor shall provide copies of the complete TAB (Commissioning) report and verification that all repairs have been made and that the systems are operational. This report and verification shall be submitted to the Architect a minimum of 7 days prior to the scheduled walk through.
 - c. The Contractor shall obtain the Certificate of Occupancy from the AHJ and supply a copy to the Architect a minimum of 7 days prior to the scheduled walk through and before substantial completion will be issued.
 - d. On the scheduled date of the walk through and after receipt of the deficiency list (punch list) the Architect will inspect the project to determine the status of completion.
 - e. Following inspection of the work, the Architect determines that the work is not substantially complete:
 - 1) The Architect promptly will so notify the Contractor, in writing, giving the reasons therefore.
 - 2) The Contractor shall remedy the deficiencies and notify the Architect when ready for re-inspection. The Architect will make only one trip to re-inspect the project.
 - 3) The Architect shall be entitled to reimbursement of costs on an hourly basis for time spent to re-inspect the project. Rate for reimbursement shall be two hundred dollars per hour (\$200.00/hr) including travel time and shall be charged against the Contractors retainage held for this work.
 - 3. When the Architect concurs that the Work is substantially complete:
 - a. The Architect will prepare a "Certificate of Substantial Completion" on AIA Form

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

G704, accompanied by the Contractor's list of items to be completed or corrected, as verified by the Architect.

- b. The Architect will submit the Certificate to the Owner and to the Contractor for their written acceptance of the responsibilities assigned to them in the Certificate.
- C. Final Completion
 1. Prepare and submit the notice required by the first sentence of Paragraph 9.10.1 of the General Conditions.
 2. Verify that the Work is complete including, but not necessarily limited to, the items mentioned in Paragraph 9.8.2 of the General Conditions.
 3. Certify that:
 - a. Contract Documents have been reviewed;
 - b. Work has been inspected for compliance with the Contract Documents;
 - c. Work has been completed in accordance with the Contract Documents;
 - d. Equipment and systems have been tested as required, and are operational;
 - e. Work is completed and ready for final inspection.
 4. The Architect will make an inspection to verify status of completion.
 5. Should the Architect determine that the Work is incomplete or defective:
 - a. The Architect promptly will so notify the Contractor, in writing, listing the incomplete or defective work.
 - b. Remedy the deficiencies promptly, and notify the Architect when ready for re-inspection.
 6. When the Architect determines that the Work is acceptable under the Contract Documents, he will request the Contractor to make closeout submittals.
- D. Closeout Submittals
 1. Closeout submittals as described in Section 01 7800
 2. Refer attached Check List.
 3. Contractor shall deliver all attic stock referenced in specifications. Attic stock shall be delivered to owners designated location.
 4. Contractor shall obtain Certificate of Occupancy from the AHJ and submit a copy to the Architect.
- E. Release of Funds
 1. Retainage for the project will be held until project closeout is complete as verified by the items in paragraph above and the attached Check List including the completion of all Punch List items.
 2. The Architect will estimate the cost of each item on the Punch List, withholding funds for each which shall be separate from the retainage. These funds will be released to the Contractor as items are completed and verified on the Punch List.
 3. THE RETAINAGE WILL NOT BE RELEASED UNTIL CERTIFICATE OF OCCUPANCY FROM THE AHJ HAS BEEN SUBMITTED TO THE ARCHITECT.
 4. THE RETAINAGE WILL NOT BE RELEASED UNTIL THE PROJECT CLOSEOUT IS COMPLETE.
- F. Final adjustment of accounts
 1. Submit a final statement of accounting to the Architect, showing all adjustments to the Contract Sum.
 2. If so required, the Architect will prepare a final Change Order showing adjustments to the Contract Sum which were not made previously by Change Orders,

3.14 MAINTENANCE

- A. Provide service and maintenance of components indicated in specification sections.
- B. Maintenance Period: As indicated in specification sections or, if not indicated, not less than two year from the Date of Substantial Completion or the length of the specified warranty, whichever

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

is longer.

1. Review warranty request procedures with the Architect and Owner no less than two weeks prior to Date of Substantial Completion.
 2. All work performed and completed during the Contractor's two year warranty period shall be noted as complete and signed off on accordingly on an Architect provided warranty request form. The form will be provided to the Contractor in Microsoft Excel format for each item requested for maintenance or repair and is required to be returned, once the work is complete, in the same originally sent document format.
 3. Contractor shall maintain a complete and accurate schedule of the dates of Substantial Completion, dates upon which the two year warranty on each phase or building which is substantially complete will expire, and dates of Final Completion. Contractor agrees to provide notice of the warranty expiration date to Owner and Architect at least one month prior to the expiration of the two year warranty period on each building or each phase of the building, which has been substantially completed. Prior to termination of the two year warranty period, Contractor shall accompany the Owner and Architect on reinspection of the building and be responsible for correcting any reasonable additional deficiencies not caused by the Owner or by the use of the building which are observed or reported during the reinspection. For extended warranties required by various sections, i.e. roofing, compressors, mechanical equipment, Owner will notify the Contractor of deficiencies and Contractor shall start remedying these defects within three (3) days of initial notification from Owner. Contractor shall prosecute the work without interruption until accepted by the Owner and the Architect, even though such prosecution should extend beyond the limit of the warranty period.
- C. Examine system components at a frequency consistent with reliable operation. Clean, adjust, and lubricate as required.
- D. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by the manufacturer of the original component.
- E. Maintenance service shall not be assigned or transferred to any agent or subcontractor without prior written consent of the Owner.

END OF SECTION

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

**SECTION 01 7800
CLOSEOUT SUBMITTALS**

PART 1 GENERAL**1.01 SECTION INCLUDES**

- A. Procedures.
- B. Project Record Documents.
- C. Operation and Maintenance Data.
- D. Warranties and bonds.
- E. Closeout Documents.

1.02 RELATED REQUIREMENTS

- A. Section 01 3000 - Administrative Requirements: Submittals procedures, shop drawings, product data, and samples.
- B. Section 01 7000 - Execution and Closeout Requirements: Contract closeout procedures.
- C. Individual Product Sections: Specific requirements for operation and maintenance data.
- D. Individual Product Sections: Warranties required for specific products or Work.

1.03 SUBMITTALS

- A. Submittal Procedure
 - 1. Within sixty (60) calendar days of substantial completion, Contractor shall submit closeout submittals as required in accordance with this section.
 - 2. The Architect's approval of the current status of Project Record Documents may be a prerequisite to the Architect's approval of requests for progress payment and request for final payment under the Contract.
 - 3. Prior to submitting each request for progress payment, secure the Architect's approval of the current status of the Project Record Documents.
 - 4. Prior to submitting request for final payment, submit the final Project Record Documents to the Architect and secure his approval.
 - 5. Contractor shall submit a complete set of closeout documents for each project where multiple projects are combined under a single proposal package.
 - 6. Review and Final Submission of Closeout Submittals
 - a. Participate in review meetings as required.
 - b. Documents shall be reviewed and verified by contractor prior to submission to the Architect.
 - c. Review submittal with Owner and Architect prior to final submittal for review and electronic archiving and document reproduction.
 - d. Contractor shall allow 14 days from date of submission for Preliminary Architectural Review.
 - e. Make changes required from the Preliminary Architectural Review and deliver the Final Project Record Documents to the Architect.
 - f. Contractor shall allow 21 days from date of submission Final Project Record Documents for document reproduction.
 - g. Contractor will coordinate electronic archiving and document reproduction of the final closeout submittal with Owner's designated company.
 - h. Contractor will pay all associated cost in preparing close-out documents and pay cost of final closeout submittal digital archiving and document reproduction. Should Owner forgo hard copies, Contractor shall submit a credit to the Owner.
 - 7. Closeout Submittals Requirements.
 - a. Closeout and Record Documents as required by this section shall be provided to the Owner upon completion of the project. Submit the number as outlined below:
 - 1) Project Record Documents - Drawings and Project Manual

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- (a) One (1) original hard copy
 - (b) One (1) copy on USB Flash Drive
 - 2) Closeout Documents – Including Operation and Maintenance Manuals
 - (a) One (1) original hard copy
 - (b) One (1) copy on USB Flash Drive
 - b. Electronic Submittal Format.
 - 1) The digital file shall be set up using a non-proprietary "PDF" format.
 - 2) All data shall be indexed/book marked.
 - 3) Data shall be searchable by key word. All data shall allow printing of material.
 - 4) Electronic submittal and hard copies shall follow the format shown in Part 3.
 - 5) Under 3.05,J, all items shall be organized as specified.
 - c. Training Session Submittal Format.
 - 1) Refer to Section 01 7900 - Demonstration and Training.
- B. Project Record Documents: Submit documents to Architect prior to request for final Application for Payment.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
 - 1. Drawings.
 - 2. Specifications.
 - 3. Addenda.
 - 4. RFIs.
 - 5. Change Orders and other modifications to the Contract.
 - 6. Reviewed shop drawings, product data, and samples.
 - 7. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
 - 1. Maintain the job set of Record Documents completely protected from deterioration and from loss and damage until completion of the Work and transfer of all recorded data to the final Project Record Documents.
 - 2. In the event of loss of recorded data, use means necessary to again secure the data to the Architect's approval.
 - a. Such means shall include, if necessary in the opinion of the Architect, removal and replacement of concealing materials.
 - b. In such case, provide replacements to the standards originally required by the Contract Documents.
- D. Identify each of the documents with the title, "RECORD DOCUMENTS - JOBSET".
- E. Record information concurrent with construction progress.
- F. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
 - 1. Manufacturer's name and product model and number.
 - 2. Product substitutions or alternates utilized.
 - 3. Changes made by Addenda and modifications.
- G. Record Drawings and Shop Drawings: Legibly mark each item to record actual construction including:
 - 1. Prior to construction, affix all addenda to the record documents, both drawings and specifications. Neatly mark all areas modified.
 - 2. Making entries on Drawings.
 - a. Using colored ink, clearly describe the change by graphic line and note as required.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- b. Date all entries.
 - c. Call attention to the entry by a "cloud" drawn around the area or areas affected. Add delta triangle with the letters "RD" inside the triangle.
 - d. In the event of overlapping changes, use different colors for the overlapping changes.
 3. In addition to field changes, neatly mark the record documents with areas modified by RFIs and change orders.
 4. Schematic layouts.
 - a. In some cases on the Drawings, arrangements of conduits, circuits, piping, ducts, and similar items, are shown schematically and is not intended to portray precise physical layout.
 - b. Clearly identify the item by accurate note such as "cast iron drain," "copper water", and the like.
 - 1) Show, by symbol or note, the vertical location of the item ("under slab", "in ceiling plenum," "exposed," and the like).
 - 2) Make all identification sufficiently descriptive that it may be related reliably to the Specifications.
 5. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
 6. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
 7. Field changes of dimension and detail.
 8. Details not on original Contract drawings.

3.02 OPERATION AND MAINTENANCE DATA

- A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.
- B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.
- C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.
- D. Typed Text: As required to supplement product data. Provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

3.03 OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES

- A. For Each Product, Applied Material, and Finish:
 1. Product data, with catalog number, size, composition, and color and texture designations.
 2. Information for re-ordering custom manufactured products.
- B. Instructions for Care and Maintenance: Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental cleaning agents and methods, and recommended schedule for cleaning and maintenance.
- C. Moisture protection and weather-exposed products: Include product data listing applicable reference standards, chemical composition, and details of installation. Provide recommendations for inspections, maintenance, and repair.
- D. Additional information as specified in individual product specification sections.
- E. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

3.04 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

- A. Refer to Divisions 21, 22, 23, 26, 27 and 28 for system requirements.

3.05 ASSEMBLY OF OPERATION AND MAINTENANCE MANUALS

- A. Assemble operation and maintenance data into durable manuals for Owner's personnel use,

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

with data arranged in the same sequence as, and identified by, the specification sections.

- B. Where systems involve more than one specification section, provide separate tabbed divider for each system.
- C. Binders: Commercial quality, 8-1/2 by 11 inch three D side ring binders with durable hard plastic covers; 4 inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings by volumes. Staples are not allowed.
- D. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.
- E. Project Directory: Title and address of Project; names, addresses, and telephone numbers of Architect, Consultants, Contractor and subcontractors, with names of responsible parties organized by division with project scopes listed for each company.
- F. Tables of Contents: List every item separated by a divider, using the same identification as on the divider tab; where multiple volumes are required, include all volumes Tables of Contents in each volume, with the current volume clearly identified.
- G. Dividers: Provide tabbed dividers for each separate product and system; identify the contents on the divider tab; immediately following the divider tab include a description of product and major component parts of equipment.
- H. Text: Manufacturer's printed data, or typewritten data on 20 pound paper.
- I. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.
- J. Contents: Prepare preliminary closeout for review and final project record closeout documents as follows:
 - 1. FILE FOLDER: XXXX-XX OWNER'S NAME - PROJECT NAME - CLOSEOUT SUBMITTAL
 - a. FILE FOLDER: 01 Table of Contents
 - 1) PDF File: Table of Contents
 - b. FILE FOLDER: 02 Project Directory
 - 1) PDF File: Project Directory (organized as below):
 - (a) Design Team
 - (b) General Contractor
 - (c) Sub-Contractors and Principal Vendors (organized by Division with project scope(s) listed for each Company)
 - c. FILE FOLDER: 03 Contract Forms (organized and titled as below):
 - 1) PDF FILE: Substantial Completion, AIA G704
 - 2) PDF FILE: Payment and Performance Bond
 - 3) PDF FILE: Certificates of Liability Insurance
 - 4) PDF FILE: Contractor's Affidavit of Payment of Debts and Claims, AIA G706
 - 5) PDF FILE: Contractor's Affidavit of Release of Liens, AIA G706A
 - 6) PDF FILE: Consent of Surety to Final Payment, AIA G707
 - 7) PDF FILE: Contractor and Sub-contractors' Release or Waiver of Liens
 - 8) FILE FOLDER: Change Orders
 - (a) PDF FILES: (separate files for each Change Order, organized and titled in numerical order)
 - d. FILE FOLDER: 04 Certifications and Inspections (organized and titled as below):
 - 1) 1) PDF FILE: The correspondence from the Geotechnical Engineer, required by Section 01 1400 at the beginning of construction, indicating that the Construction Documents conform with their recommendations.
 - 2) PDF FILE: The correspondence from the Special Inspection and Testing Agency (SITA), required by Section 01 1400 at the beginning of construction, indicating that the SITA accepted the responsibility to perform the specified SITA scope and meet the specified SITA qualifications
 - 3) PDF FILE: The correspondence from the Commissioning Agent (CxA), required

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- by Section 01 1400 at the beginning of construction, indicating that the CxA accepted the responsibility to perform the specified SITA scope and meet the specified SITA qualifications
- 4) PDF FILE: The "Acknowledgement of Contractor's Responsibilities Related to Code-Required Quality Control" required by Section 01 4533 at the beginning of construction.
 - 5) PDF FILE: A copy of the written correspondence from the Contractor to the AHJ submitting the "Final Reports of Quality Control" required by Section 01 4533 from the SITA, CxA, and Code-Required Structural Observer. The copy of this correspondence shall include the actual reports and not just be a cover letter.
 - 6) (a) PDF FILE: The "Final Report of Quality Control" required by Section 01 4533 from the SITA
 - 7) (b) PDF FILE: The "Final Report of Quality Control" required by Section 01 4533 from the CxA
 - 8) (c) PDF FILE: The "Final Report of Quality Control" required by Section 01 4533 from the Code-Required Structural Observer
 - 9) PDF FILE: The "Final Report of Quality Control" required by Section 01 4533 from the Structural Engineer
 - 10) PDF FILE: The "Final Report of Quality Control" required by Section 01 4533 from the Mechanical Engineer
 - 11) PDF FILE: The "Final Report of Quality Control" required by Section 01 4533 from the Electrical Engineer
 - 12) PDF FILE: Certificates of Occupancy
 - 13) PDF FILE: TEA Certificate of Project Compliance
 - 14) PDF FILE: Final Fire Inspection
 - 15) PDF FILE: Final Health Inspection
 - 16) PDF FILE: Final Elevator Inspection
 - 17) PDF FILE: Final Building Inspection
 - 18) PDF FILE: ADA Inspection Report
 - 19) PDF FILE: Energy Code Compliance Letter
 - 20) PDF FILE: HVAC Test and Balance Reports
 - 21) PDF FILE: Backflow Test Report
 - 22) PDF FILE: Data Testing Results
 - 23) FLW FILE: Data Testing Results (Native)
 - e. FILE FOLDER: 05 Health/Safe Environment Data (organized and titled as below):
 - 1) PDF FILE: Asbestos-, Lead- and Hazardous-Free Material Certificates (organized by Division)
 - 2) PDF FILE: Material Safety Data Sheets (MSDS) (organized by Division)
 - 3) PDF FILE: Indoor Air Quality Safe Environment Certification
 - 4) PDF FILE: Indoor Air Quality Test Reports
 - f. FILE FOLDER: 06 Additional Project Information
 - 1) FILE FOLDER: Requests for Information
 - (a) PDF FILES (separate files for each RFI, organized and titled in numerical order)
 - 2) FILE FOLDER: Requests for Proposals
 - (a) PDF FILES (separate files for each RFP, organized and titled in numerical order)
 - 3) FILE FOLDER: Approved Submittals
 - (a) PDF FILES (separate files for each Submittal, organized and titled in numerical order by specification section)
 - g. FILE FOLDER: 07 Attic Stock
 - 1) PDF FILES: Attic Stock Sign-Off Sheets (separate files for each, showing Owner receipt, and organized and titled in numerical order by Specification Section)
 - h. FILE FOLDER: 08 Demonstration and Training

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- 1) FILE FOLDER: Sign-In Sheets
 - (a) PDF FILES: (separate files for each, organized and titled in numerical order by Specification Section)
- 2) FILE FOLDER: Training Videos
 - (a) All training videos organized and titled in numerical order by Specification Section
- i. FILE FOLDER: 09 Project Record Documents
 - 1) PDF FILE: Project Record Specifications Manual (organized and bookmarked by Division and by Specification Section) - include and hyperlink all Addenda, RFIs, RFPs, and In-Field Changes
 - 2) PDF FILE: Project Record As-Built Drawings (organized and bookmarked by Sheet Number) - include and hyperlink all Addenda, RFIs, RFPs, and In-Field Changes
- j. FILE FOLDER: 10 Warranties
 - 1) FILE FOLDERS: (separate file folders, organized and titled by Division)
 - (a) PDF FILES: (all warranty PDF files organized under each Division file folder and titled by Company Name)
- k. FILE FOLDER: 11 Operation and Maintenance Manuals
 - 1) PDF FILE: Keying Schedule
 - 2) PDF FILE: Shop Drawings (separate files for each, organized and titled by Specification Section)
 - 3) FILE FOLDER: Manuals
 - (a) FILE FOLDERS: (separate file folders, organized and titled by Division)
 - (b) PDF FILES: (all Manuals PDF files organized under each Division file folder and titled by Specification Section and scope)

3.06 CHANGES SUBSEQUENT TO ACCEPTANCE

- A. The Contractor has no responsibility for recording changes in the Work subsequent to Final Completion, except for changes resulting from work performed under Warranty.

END OF SECTION

**SECTION 02 4100
DEMOLITION****PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Selective demolition of building elements.

1.02 RELATED REQUIREMENTS

- A. Section 01 5000 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- B. Section 01 6000 - Product Requirements: Handling and storage of items removed for salvage and relocation.
- C. Section 01 7000 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.

1.03 REFERENCE STANDARDS

- A. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.
- B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2013.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

1.05 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: Company specializing in the type of work required.
 - 1. Minimum of 5 years of documented experience.

PART 2 PRODUCTS -- NOT USED**PART 3 EXECUTION****3.01 SCOPE**

- A. Remove kennels, fences, gates and other items identified on the demolition plans.
- B. Remove other items indicated, for salvage, relocation, and recycling.

3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with other requirements specified in Section 01 7000.
- B. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - 1. Obtain required permits.
 - 2. Comply with applicable requirements of NFPA 241.
 - 3. Use of explosives is not permitted.
 - 4. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
 - 5. Provide, erect, and maintain temporary barriers and security devices.
 - 6. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
 - 7. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
 - 8. Do not close or obstruct roadways or sidewalks without permit.

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

9. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.
 10. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon or limit access to their property.
- C. Do not begin removal until receipt of notification to proceed from Owner.
- D. Prior to submitting proposal, Contractor shall request a list from the Owner stating items which shall be removed by the Owner prior to demolition.
- E. Included with the demolition proposal, Contractor shall provide a written declaration of items that will be salvaged from the site. Each item shall be itemized and a monetary value assigned. Credit value of salvaged items shall be included in calculation of proposal. Declaration shall be reviewed by the Owner to determine that the declaration complies with state requirements and City policy in regards to disposing of public property.
- F. All items called for on the drawings to be salvaged, removed and relocated shall be inventoried, removed and stored until such time as they are to be installed in their new location. The inventory list shall be given to the Owner and shall include an itemized list that includes quantities, descriptions and condition of each item. These items are considered to be in good operating condition at the time the contract is signed, and shall remain the property of Owner. These items shall be properly protected by the contractor and removed by him, complete, including all appurtenances and reinstalled in their new location in good working order with any modifications called for by the drawings.
- G. All items noted on the drawings to be removed and delivered to the Owner shall be cataloged with a written description and delivered to Owner at a location designated by the Owner.
- H. Do not begin removal until built elements to be salvaged or relocated have been removed.
- I. Do not begin removal until vegetation to be relocated has been removed and specified measures have been taken to protect vegetation to remain.
- J. Protect existing structures and other elements that are not to be removed.
1. Provide bracing and shoring.
 2. Prevent movement or settlement of adjacent structures.
 3. Stop work immediately if adjacent structures appear to be in danger.
- K. Minimize production of dust due to demolition operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.
- L. If hazardous materials are discovered during removal operations, stop work and notify Architect and Owner; hazardous materials include regulated asbestos containing materials, lead, PCB's, and mercury.
- M. Partial Removal of Paving and Curbs: Neatly saw cut at right angle to surface.

3.03 EXISTING UTILITIES

- A. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.
- B. Protect existing utilities to remain from damage.
- C. Do not disrupt public utilities without permit from authority having jurisdiction.
- D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.
- E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
- F. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- G. Unused underground piping may be abandoned in place, provided it is completely drained and capped; remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
- H. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone; identify and mark utilities to be subsequently reconnected, in same manner as other utilities to remain.

3.04 SELECTIVE DEMOLITION FOR ALTERATIONS

- A. Drawings showing existing construction and utilities are based on existing record documents and field observation.
 - 1. Verify that construction, salvage items and utility arrangements are as shown.
 - 2. Report discrepancies to Architect before disturbing existing installation.
 - 3. Beginning of demolition work constitutes acceptance of existing conditions that would be apparent upon examination prior to starting demolition.
- B. Separate areas in which demolition is being conducted from other areas that are still occupied.
 - 1. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 01 5000 in locations indicated on drawings.
- C. Remove existing work as indicated and as required to accomplish new work.
- D. Services (Including but not limited to HVAC, Plumbing, Fire Protection, Electrical, and Telecommunications): Remove existing systems and equipment as indicated.
 - 1. Maintain existing active systems that are to remain in operation; maintain access to equipment and operational components.
 - 2. Where existing active systems serve occupied facilities but are to be replaced with new services, maintain existing systems in service until new systems are complete and ready for service.
 - 3. Verify that abandoned services serve only abandoned facilities before removal.
 - 4. Remove abandoned pipe, ducts, conduits, and equipment as indicated on the drawings; remove back to source of supply where possible, otherwise cap stub and tag with identification.
- E. Protect existing work to remain.
 - 1. Repair adjacent construction and finishes damaged during removal work.
 - 2. Patch as specified for patching new work.

3.05 DEBRIS AND WASTE REMOVAL

- A. Remove debris, junk, and trash from site.
- B. Remove from site all materials not to be reused on site; do not burn or bury.
- C. Leave site in clean condition, ready for subsequent work.
- D. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

**SECTION 06 1000
ROUGH CARPENTRY**

PART 1 GENERAL**1.01 SECTION INCLUDES**

- A. Non-structural dimension lumber framing.
- B. Sheathing.
- C. Roofing nailers.
- D. Roofing cant strips.
- E. Preservative treated wood materials.
- F. Fire retardant treated wood materials.
- G. Miscellaneous framing and sheathing.
- H. Concealed wood blocking, nailers, and supports.
- I. Miscellaneous wood nailers, furring, and grounds.

1.02 REFERENCE STANDARDS

- A. AWC (WFCM) - Wood Frame Construction Manual for One- and Two-Family Dwellings; 2015.
- B. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
- C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2015.
- D. ASTM D2898 - Standard Test Methods for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing; 2010.
- E. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.
- F. AWPA U1 - Use Category System: User Specification for Treated Wood; 2012.
- G. PS 1 - Structural Plywood; 2009.
- H. PS 2 - Performance Standard for Wood-Based Structural-Use Panels; 2010.
- I. PS 20 - American Softwood Lumber Standard; 2010.
- J. SPIB (GR) - Grading Rules; 2014.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide technical data on insulated sheathing, wood preservative materials, application instructions, and vendor.
- C. Structural Composite Lumber: Submit manufacturer's published structural data including span tables, marked to indicate which sizes and grades are being used; if structural composite lumber is being substituted for dimension lumber or timbers, submit grading agency structural tables marked for comparison.
- D. Samples: For rough carpentry members that will be exposed to view, submit three samples, 12by12 inch in size illustrating wood grain, color, and general appearance.
- E. Manufacturer's Certificate: Certify that wood products supplied for rough carpentry meet or exceed specified requirements.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. General: Cover wood products to protect against moisture. Support stacked products to prevent deformation and to allow air circulation.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

1. For lumber and plywood pressure treated with waterborne chemicals, place spacers between each bundle to provide air circulation.
 2. Identify plywood sheathing as to grade, use, span rating and exposure classification by the mark of the APA The Engineered Wood Association.
 3. Use extreme care when off-loading lumber to prevent damage, splitting and breaking of materials. Split or broken plywood sheathing will not be accepted for use in the work of this Section.
- B. Fire Retardant Treated Wood: Prevent exposure to precipitation during shipping, storage, or installation.

PART 2 PRODUCTS**2.01 GENERAL REQUIREMENTS**

- A. Dimension Lumber: Comply with PS 20 and requirements of specified grading agencies.
1. Species: Spruce-Pine-Fir (South), unless otherwise indicated.
 2. Grading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mark unless otherwise indicated.
 3. Lumber of other species or grades is acceptable provided structural and appearance characteristics are equivalent to or better than products specified.

2.02 DIMENSION LUMBER

- A. Grading Agency: Southern Pine Inspection Bureau, Inc; SPIB (GR).
- B. Sizes: Nominal sizes as indicated on drawings, S4S.
- C. Moisture Content: 19 percent maximum.
- D. Stud Framing (2 by 2 through 2 by 6):
1. Species: Any allowed under referenced grading rules.
 2. Grade: No. 2.
- E. Joist and Rafter Framing (2 by 6 through 4 by 16):
1. Species: Spruce-Pine-Fir (South).
 2. Grade: No. 2.
- F. Miscellaneous Framing, Blocking, Nailers, Grounds, and Furring:
1. Lumber: S4S, No. 2 or Standard Grade.
 2. Boards: No. 2 or Standard Grade.

2.03 EXPOSED BOARDS

- A. Submit manufacturer's certificate that products meet or exceed specified requirements, in lieu of grade stamping.
- B. Moisture Content: S-dry (19 percent maximum).
- C. Surfacing: S4S.
- D. Species: Douglas Fir.
- E. Grade: No. 2, 2 Common, or Construction.

2.04 CONSTRUCTION PANELS

- A. Roof Sheathing: Any PS 2 type, rated Structural I Sheathing.
1. Bond Classification: Exposure 1.
 2. Span Rating: 40/20.
 3. Thickness: 5/8 inch, nominal for standing seam metal roofs, 2 layers of 3/8 inch, nominal for curved standing seam metal roofs and 3/4 inch for asphalt shingle roofs.
 4. Within 40 feet in any direction of any 4-hour firewall, install fire-retardant treated plywood sheathing.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

5. Provide metal clip supports between sheets
- B. Other Applications: Thickness as noted on the drawings
 1. Plywood Concealed From View But Located Within Exterior Enclosure: PS 1, C-C Plugged or better, Exterior grade.
 2. Plywood Exposed to View But Not Exposed to Weather: PS 1, A-D, or better.
 3. Other Locations: PS 1, C-D Plugged or better.

2.05 ACCESSORIES

- A. Fasteners and Anchors:
 1. Metal and Finish: Hot-dipped galvanized steel complying with ASTM A153/A153M for high humidity and preservative-treated wood locations, unfinished steel elsewhere.
 2. Drywall Screws: Bugle head, hardened steel, power driven type, length three times thickness of sheathing.
 3. Anchors: Expansion shield and lag bolt type for anchorage to solid masonry or concrete.
- B. Die-Stamped Connectors: Hot dipped galvanized steel, sized to suit framing conditions.
 1. For contact with preservative treated wood in exposed locations, provide minimum G185 galvanizing complying with ASTM A653/A653M.
- C. Joist Hangers: Hot dipped galvanized steel, sized to suit framing conditions.
 1. For contact with preservative treated wood in exposed locations, provide minimum G185 galvanizing complying with ASTM A653/A653M.
- D. Water-Resistive Barrier: As specified in Section 07 2500.

2.06 FACTORY WOOD TREATMENT

- A. Treated Lumber and Plywood: Comply with requirements of AWWA U1 - Use Category System for wood treatments determined by use categories, expected service conditions, and specific applications.
 1. Fire-Retardant Treated Wood: Mark each piece of wood with producer's stamp indicating compliance with specified requirements.
 2. Preservative-Treated Wood: Provide lumber and plywood marked or stamped by an ALSC-accredited testing agency, certifying level and type of treatment in accordance with AWWA standards.
- B. Fire Retardant Treatment:
 1. Exterior Type: AWWA U1, Category UCFB, Commodity Specification H, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes both before and after accelerated weathering test performed in accordance with ASTM D2898.
 - a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
 - b. Treat all exterior rough carpentry items.
 - c. Do not use treated wood in direct contact with the ground.
 2. Interior Type A: AWWA U1, Use Category UCFA, Commodity Specification H, low temperature (low hygroscopic) type, chemically treated and pressure impregnated; capable of providing a maximum flame spread index of 25 when tested in accordance with ASTM E84, with no evidence of significant combustion when test is extended for an additional 20 minutes.
 - a. Kiln dry wood after treatment to a maximum moisture content of 19 percent for lumber and 15 percent for plywood.
 - b. Treat rough carpentry items as indicated .
 - c. Do not use treated wood in applications exposed to weather or where the wood may become wet.
- C. Preservative Treatment:

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

1. Preservative Pressure Treatment of Lumber Above Grade: 1, Use Category UC3B, Commodity Specification A using waterborne preservative to 0.25 lb/cu ft retention.
 - a. Kiln dry lumber after treatment to maximum moisture content of 19 percent.
 - b. Treat lumber exposed to weather.
 - c. Treat lumber in contact with roofing, flashing, or waterproofing.
 - d. Treat lumber in contact with masonry or concrete.
 - e. Treat lumber in other locations as indicated.
2. Preservative Pressure Treatment of Plywood Above Grade: 1, Use Category UC2 and UC3B, Commodity Specification F using waterborne preservative to 0.25 lb/cu ft retention.
 - a. Kiln dry plywood after treatment to maximum moisture content of 19 percent.
 - b. Treat plywood in contact with roofing, flashing, or waterproofing.
 - c. Treat plywood in contact with masonry or concrete.
 - d. Treat plywood in other locations as indicated.
3. Preservative Pressure Treatment of Lumber in Contact with Soil: 1, Use Category UC4A, Commodity Specification A using waterborne preservative to 0.40 lb/cu ft retention.
 - a. Preservative for Field Application to Cut Surfaces: As recommended by manufacturer of factory treatment chemicals for brush-application in the field.
 - b. Restrictions: Do not use lumber or plywood treated with chromated copper arsenate (CCA) in exposed exterior applications subject to leaching.

PART 3 EXECUTION

3.01 PREPARATION

- A. Where wood framing bears on cementitious foundations, install full width sill flashing continuous over top of foundation, lap ends of flashing minimum of 4 inches and seal.
- B. Install sill gasket under sill plate of framed walls bearing on foundations; puncture gasket cleanly to fit tightly around protruding anchor bolts.
- C. Coordinate installation of rough carpentry members specified in other sections.

3.02 INSTALLATION - GENERAL

- A. Select material sizes to minimize waste.
- B. Reuse scrap to the greatest extent possible; clearly separate scrap for use on site as accessory components, including: shims, bracing, and blocking.
- C. Where treated wood is used on interior, provide temporary ventilation during and immediately after installation sufficient to remove indoor air contaminants.

3.03 FRAMING INSTALLATION

- A. Set structural members level, plumb, and true to line. Discard pieces with defects that would lower required strength.
- B. Make provisions for temporary construction loads, and provide temporary bracing sufficient to maintain structure in true alignment and safe condition until completion of erection and installation of permanent bracing.
- C. Install structural members full length without splices.
- D. Comply with member sizes, spacing, and configurations indicated, and fastener size and spacing indicated, but not less than required by applicable codes and AWI (WFCM) Wood Frame Construction Manual.
- E. Install horizontal spanning members with crown edge up and not less than 3 inches of bearing at each end.
- F. Construct double joist headers at floor and ceiling openings and under wall stud partitions that are parallel to floor joists; use metal joist hangers unless otherwise detailed.
- G. Provide bridging at joists in excess of 8 feet span at mid-span. Fit solid blocking at ends of members.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- H. Frame wall openings with two or more studs at each jamb; support headers on cripple studs.

3.04 BLOCKING, NAILERS, AND SUPPORTS

- A. Provide framing and blocking members as indicated or as required to support finishes, fixtures, specialty items, and trim.
- B. In framed assemblies that have concealed spaces, provide solid wood fireblocking as required by applicable local code, to close concealed draft openings between floors and between top story and roof/attic space; other material acceptable to code authorities may be used in lieu of solid wood blocking.
- C. In metal stud walls, provide continuous blocking around door and window openings for anchorage of frames, securely attached to stud framing.
- D. In walls, provide blocking attached to studs as backing and support for wall-mounted items, unless item can be securely fastened to two or more studs or other method of support is explicitly indicated.
- E. Where ceiling-mounting is indicated, provide blocking and supplementary supports above ceiling, unless other method of support is explicitly indicated.
- F. Provide the following specific non-structural framing and blocking:
 - 1. Cabinets and shelf supports.
 - 2. Wall brackets.
 - 3. Handrails.
 - 4. Grab bars.
 - 5. Towel and bath accessories.
 - 6. Wall-mounted door stops.
 - 7. Chalkboards and marker boards.
 - 8. Wall paneling and trim.
 - 9. Joints of rigid wall coverings that occur between studs.

3.05 ROOF-RELATED CARPENTRY

- A. Coordinate installation of roofing carpentry with deck construction, framing of roof openings, and roofing assembly installation.
- B. Provide wood curb at all roof openings except where prefabricated curbs are specified and where specifically indicated otherwise. Form corners by alternating lapping side members.

3.06 INSTALLATION OF CONSTRUCTION PANELS

- A. General: Comply with applicable recommendations contained in APA Form No. E30, "APA Design/Construction Guide: Residential & Commercial," for types of structural-use panels and applications indicated.
 - 1. Comply with "Code Plus" provisions of above-referenced guide.
- B. Comply with system manufacturer's written instructions for installing plywood.
 - 1. Install plywood sheathing continuously, with the strength of the axis of the panel across supports. Plywood sheathing shall be installed with offset joints. Butt end joints over supports, providing a space of 1/16" at panel ends and 1/8" at panel edges.
 - 2. Fasten each layer of plywood sheathing using #13-14 Dekfast screws with Phillips drive truss heads in a noncorrosive base material in sufficient length to penetrate the metal decking by 1/2". Use a screw pattern of 6" spacing along exterior edges and a 12" interior grid pattern per UL90 class 580 uplift. Provide a minimum of 32 fasteners per sheet. Plywood shall be fastened as an independent system for the insulation. Where drawings indicate multiple layers of plywood, stagger second layer in both directions from pattern below. At curved roof structures, plywood shall conform to the radius of the structure.
 - 3. Within 40 feet in any direction of any 4-hour firewall, install fire-retardant treated plywood sheathing.
 - 4. Provide metal clip supports between sheets at center spans unless tongue and groove plywood sheathing is used.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

5. Cover plywood sheathing as soon as possible with specified underlayment for protection against excessive moisture prior to roofing application.
6. Do not install plywood sheathing in adverse weather conditions. Plywood sheathing may be rejected by the Architect, whether or not it has been installed, for excessive warp, twist, crook, mildew, fungus, or mold as well as for improper curing and firming prior to installation. Wet or damaged plywood sheathing will be rejected.

3.07 SITE APPLIED WOOD TREATMENT

- A. Apply preservative treatment compatible with factory applied treatment at site-sawn cuts, complying with manufacturer's instructions.
- B. Allow preservative to dry prior to erecting members.

3.08 TOLERANCES

- A. Framing Members: 1/8 inch from true position, maximum.
- B. Surface Flatness of Floor: 1/8 inch in 10 feet maximum, and 3/8 inch in 30 feet maximum.
- C. Variation from Plane (Other than Floors): 1/8 inch in 10 feet maximum, and 1/4 inch in 30 feet maximum.

3.09 CLEANING

- A. Waste Disposal: Comply with the requirements of Section 01 7000.
 1. Comply with applicable regulations.
 2. Do not burn scrap on project site.
- B. Prevent sawdust and wood shavings from entering the storm drainage system.

END OF SECTION

SECTION 07 2200
ROOF AND DECK INSULATION**PART 1 - GENERAL****1.01 DESCRIPTION**

- A. Work includes: Removal and reroof of the designated roof areas as shown on the roof plans and details.

1.02 REFERENCES

- A. American Society of Testing Materials (ASTM)
 - 1. C 177 Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus.
 - 2. C 209 Methods of Testing Insulating Board (Cellulosic Fiber), Structural and Decorative.
 - 3. D 41 Asphalt Primer Used in Roofing and Waterproofing.
 - 4. D 312 Asphalt Used in Roofing.
 - 5. D 1621 Test Method for Compressive Properties of Rigid Cellular Plastics.
 - 6. D 4601 Asphalt Coated Glass Fiber Base Sheet Used in Roofing.
- B. National Roofing Contractors Association (NRCA)
- C. ANSI/SPRI
- D. ASCE 7 wind uplift criteria

1.03 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. Classified by Underwriter's Laboratories (UL) as Class A roof covering.
 - 2. Follow local, state, and federal regulations, safety standards, and codes.
- B. Installation:
 - 1. Installation shall be in accordance with manufacturer's current published application procedures, NRCA general recommendations, and ASCE 7 wind uplift criteria.
 - 2. Roof system manufacturer's technical specifications shall be considered part of this specification and shall be used as reference for specific application procedures.

1.04 SUBMITTALS

- A. Product Data: Submit Manufacturer's product data sheets for each product.
- B. Shop Drawings: Layout of roof plan showing tapered design, tapered insulation pattern, direction of slope, amount of slope, spot elevations indicating thicknesses at high and low points.
- C. Certification: Submit roof manufacturer's certification in writing that insulation is acceptable as substrate for application of specified roof system.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store materials in accordance with manufacturer's recommendations.
- B. When stored outdoors:

1. Tarp and shield insulation from moisture and ultraviolet rays.
2. Elevate insulation above substrate four inches minimum.
3. Secure insulation to resist high winds.
4. Distribute insulation stored on roof deck to prevent concentrated loads that would impose excessive stress or stain on deck or structural members. Verify that structure can accommodate additional loading.
5. Wet insulation, or insulation that has been wet but which has dried, may not be used and shall be removed completely and immediately from the job site.
6. Do not double stack bundles of insulation on the roof top.

1.06 SEQUENCING AND SCHEDULING

- A. Substrate Acceptance: Roof system manufacturer's representative shall inspect roof deck and associated substrates and provide written acceptance of conditions.
- B. Manufacturer's approved roofing contractor shall inspect and approve deck and substrates.
- C. Plan roof layout with respect to roof deck slope to prevent rainwater drainage into completed roofing.
- D. Do not install more insulation than can be covered with complete roof system in same day.

1.07 PRODUCT CONDITIONS

- A. Environmental Requirements:
 1. Apply roofing and insulation in dry weather.
 2. Do not proceed with roof construction during inclement weather or when precipitation is predicted 40% or more possibility.
 3. Do not apply insulation over wet or moist deck or in foggy conditions.
 4. Days with wind speeds of 30 mph or greater shall be considered "Bad Weather" days.
- B. Emergency Equipment: Maintain on-site equipment and material necessary to apply emergency temporary seals in the event of sudden storms or inclement weather.
- C. Costs for emergency roofing shall be borne by Contractor.

PART 2 - PRODUCTS

2.01 INSULATION (REFER TO ROOF PLAN FOR LOCATIONS)

- A. All insulation shall be approved in writing by the membrane manufacturer as to thickness, type, and manufacturer. All insulation must be approved for the specific application, Underwriters Laboratory approved, and be listed in the FM Global Approval Guide.
- B. Polyisocyanurate Roof Insulation: Insulation shall be rigid polyisocyanurate foam board; LTTR-value shall be a minimum of R25; meeting Federal Specification No. HH-I-1972/1 or 2 with 20 psi minimum compressive strength and 2.0 pcf minimum density. Board shall be surfaced on two (2) sides with non-asphaltic facer material.
- C. Tapered Polyisocyanurate Roof Insulation, (where necessary and as shown on the drawings): Shall be tapered polyisocyanurate board per Federal Specification No. HH-I-1972/1 or 2, with a 20 psi minimum compressive strength and 2.0 pcf density minimum. Insulation shall be of thickness required for one-eighth inch (1/8") slope per foot to roof drains as shown on drawings. Insulation shall be surfaced on two (2) sides with a non-asphaltic facer material. Minimum starting edge thickness shall be one and one half inches (1 1/2"). LTTR-value shall be a minimum of R25
- D. Factory Tapered Polyisocyanurate cricket Insulation: Factory cut twenty-four inch by forty-eight inch (24" x 48") polyisocyanurate board cut to one-half inch (1/2") per foot slope used in conjunction with standard thickness of polyisocyanurate board to provide positive slope to drains.
- E. Coverboard: Impact-resistant, nonstructural, specially engineered gypsum and cellulose fiber panels with 95% recycled content; uniform water-resistance throughout core and surface. Board size four feet by eight feet (4' x 8'), thickness 1/2" = R of 0.5; conforming to ASTM C 1278, meeting FM 4470 Class 1 criteria, classified by Underwriters Laboratories, and listed in

the FM Global Approval Guide. Board will meet the following physical properties, or approved equal.

Test	Typical Value	Test Method
Fire Resistance	Class A	UL 790
Permeance	≤ 30	ASTM C473
Surface water absorption	≤ 1.6 nominal grams	ASTM C473
Water resistance	Maximum 10% weight percentage gain	
Mold Resistance	Minimum rating of "10"	ASTM D3273

2.02 BITUMEN

- A. Shall be ASTM D 312 Type IV extra steep asphalt.

2.03 ASPHALT ROOF PRIMER

- A. Quick-dry asphalt-based primer for priming of asphalt roof surfaces, as manufactured by GAF, or approved equal.

Applicable Federal Specification	SS-A-701B
ASTM	D 41
Flash Point	105° F
Viscosity at 80° F (ASTM D 217)	50-60 K.U.
Weight per gallon	7.4 pounds
Drying time (to touch)	Min. 4 hours

2.04 ROOFING INSULATION ADHESIVE

- A. Shall be a single component, moisture-cured polyurethane adhesive, free of conventional solvents; Insta-Stik® as manufactured by The Dow Chemical Company, or approved equal.

2.05 ROOFING INSULATION ADHESIVE

- A. Shall be a dual component, reaction cure polyurethane adhesive, meeting the following physical properties, as manufactured by Flex Membrane International, or approved equal.

Density	ASTM D-1622	Free Rise 3.2 lb/cf
Compressive Strength	ASTM D-1621	Parallel 38 psi @ 6% deflection
Tensile Strength	ASTM D 1623	35 psi
Water Absorption	ASTM D 2843	5.1%
Closed Cell Content	ASTM D 2856	90% min.; R-value= 3.8 new
Weight/Gallon (Liquid Components)		"Part 1" Component = 10.32 lbs.
		"Part 2" Component = 8.54 lbs.
		"Part 1" Component = 225 cps
		"Part 2" Component = 275 cps

2.06 FASTENERS

- A. Fasteners and fastening plates and/or termination bars shall be FM Approved and shall be listed in the FM Global Approval Guide, and as recommended by the insulation/ fastener manufacturer for the specific application to meet the minimal requirements for wind uplift as required by the local jurisdiction and/or FM Global.
- B. Standard Fastener for Steel Applications for 18-24 gauge Steel and Wood Substrates: Shall be a #14 fastener with a minimum .220 thread diameter and .12.5 buttress threads and a 30 degree spade point. Fasteners shall be fluorocarbon coated with CR-10 corrosion resistant coating when subjected to 30 Kesternich cycles (DIN 50018) shows less than 15% red rust which surpasses FM Global Approval Standard 4470, as manufactured by OMG Roofing Products, Agawam, MA or approved equal. All fasteners shall be used in conjunction with the

manufacturers approved round pressure plate. Fasteners, plates, and/or bars shall be FM approved and listed in the FM Global Approval Guide.

PART 3 - EXECUTION

3.01 PROTECTION

- A. Provide special protection from traffic on yet to be removed roofing.
- B. Provide special protection from traffic on completed work.

3.02 EXAMINATION AND PREPARATION

- A. Do not install until defects are corrected and deck substrate meets roof system manufacturer's requirements.
- B. Do not apply insulation unless asphalt application temperature, EVT of approximately 375° F to 425° F, can be maintained or when water or moisture is present on substrate. Do not heat asphalt above flashing point, or 525° F.
- C. Examine substrate and related surfaces, and verify that there are no conditions such as inadequate anchorage, foreign materials, moisture, ridges, depressions, or other conditions which would prevent satisfactory installation of roof system.
- D. Start of work constitutes acceptance of deck substrate and site conditions.
- E. Sweep deck substrate clean of dust and debris immediately prior to installation of insulation.

3.03 INSULATION INSTALLATION

- A. Manufacturer's Instructions: In regard to attachment, the manufacturer's instructions or specifications shall determine the suitability for an application. Installation must meet ASCE 7 criteria and meet local governing building codes.
- B. Precautions: The surface of the insulation must not be ruptured due to overdriving of fasteners.
- C. Thermal insulation boards shall be laid on the substrate in parallel rows with end joints staggered and butted as close as possible. All joints shall be tight and at the roof perimeter and roof penetrations, insulation shall be cut neatly and fitted to reduce openings to a minimum. All openings one-fourth inch (1/4") or larger shall be filled with insulation.
- D. Insulation shall be tapered or feathered at drains and scuppers to provide proper drainage (if applicable).
- E. No more insulation shall be installed than can be covered by the completed roof system by the end of the day or the onset of inclement weather.
- F. Tapered insulation and crickets, when specified, shall be placed in accordance with the drawings and/or as required to minimum of NRCA standards.

3.04 MECHANICALLY FASTENED INSULATION

- A. Specified insulation shall be mechanically fastened to conform to the ASCE 7 criteria for wind uplift as dictated by wind zone applicable to location of project. Fasteners and fastening patterns shall be determined by building height, location and geographical area of the United States. It is the contractor's responsibility to consult current publications, literature, and bulletins of IBC and the manufacturer that are in effect at the time of this project. Boards shall be staggered and butted as close as possible with voids over one-fourth inch (1/4") to be filled.
- B. Insulation shall be laid with edges parallel to flutes and bearing on deck surface/flats. The long dimension of base insulation layer must be fully supported by the top flange of the metal deck. The edges of insulation boards must not cantilever over the flutes of the metal deck.

SECOND LAYER OF INSULATION MOPPED OVER MF INSULATION

- C. The top surface of the first layer of insulation shall be coated with hot asphalt using twenty-five pounds (25#) per one hundred (100) square feet of surface, and a second layer of insulation shall be applied using offset joints, so that each layer breaks joints to a minimum of six inches (6") both ways with the preceding layer, and immediately walked in place.

SECOND LAYER OF TAPERED INSULATION MOPPED OVER MF INSULATION

- D. The top surface of the first layer of insulation shall be coated with hot asphalt using twenty-five pounds (25#) per one hundred (100) square feet of surface, and a one-eighth inch (1/8") tapered layer of insulation shall be applied using offset joints, so that each layer breaks joints to a minimum of six inches (6") both ways with the preceding layer, and immediately walked in place.
- E. The top surface of the layer of insulation shall be coated with hot asphalt using twenty-five pounds (25#) per one hundred (100) square feet of surface, and a substrate board shall be applied using offset joints, so that each layer breaks joints to a minimum of six inches (6") both ways with the preceding layer, and immediately walked in place.

3.05 FULLY ADHERED INSULATION

- A. Insulation shall be laid with edges parallel to flutes and bearing on deck surface/flats. The long dimension of base insulation layer must be fully supported by the top flange of the metal deck. The edges of insulation boards must not cantilever over the flutes of the metal deck.
- B. First layer of specified insulation shall be bonded to the base sheet with a solid mopping of steep asphalt Type IV, as required by slope (NRCA), at the minimum rate of thirty pounds (30#) $\pm 20\%$ per one hundred (100) square feet and immediately walked in place.
- C. The top surface of the first layer of insulation shall be coated with hot asphalt using twenty-five pounds (25#) per one hundred (100) square feet of surface, and a second layer of insulation shall be applied using offset joints, so that each layer breaks joints to a minimum of six inches (6") both ways with the preceding layer, and immediately walked in place.
- D. The top surface of the first layer of insulation shall be coated with hot asphalt using twenty-five pounds (25#) per one hundred (100) square feet of surface, and a one-eighth inch (1/8") tapered layer of insulation shall be applied using offset joints, so that each layer breaks joints to a minimum of six inches (6") both ways with the preceding layer, and immediately walked in place.
- E. The top surface of the layer of insulation shall be coated with hot asphalt using twenty-five pounds (25#) per one hundred (100) square feet of surface, and a substrate board shall be applied using offset joints, so that each layer breaks joints to a minimum of six inches (6") both ways with the preceding layer, and immediately walked in place.

3.06 BACKNAILING/STRAPPING

- A. On slopes greater than one inch (1") in twelve inches (12"), refer to NRCA and/or manufacturer's guidelines for backnailing procedures and follow the more stringent guidelines for all specified materials.

<u>Slope</u>	<u>Interply& Top Pour</u>	<u>Backnail</u>	<u>Strap</u>
0 - 1/2" per 12"	Type IV	No	No
1/2" - 2" per 12"	Type IV	Yes	Strap if possible
2" - 3" per 12"	Type IV	Yes	Yes

3.07 ADJUSTING

- A. Remove insulation which has been damaged (broken, cracked, punctured, wet, etc.) and install acceptable new units before installation of roof system.

3.08 CLEANING

- A. Remove debris and material wrappers from jobsite. Leave insulation clean and dry, ready to receive roofing membrane.

3.09 PROTECTION

- A. Provide special protection from traffic on completed work.

END OF SECTION

SECTION 07 2500
WEATHER BARRIERS**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Air Barriers: Materials that form a system to stop passage of air through exterior walls, joints between exterior walls and roof, joints around frames of openings in exterior walls, and joints at base of wall.

1.02 RELATED REQUIREMENTS

- A. Section 07 9200 - Joint Sealants: Sealing building expansion joints.

1.03 DEFINITIONS

- A. Weather Barrier: Assemblies that form either water-resistive barriers, air barriers, or vapor retarders.
- B. Air Barrier: Air tight barrier made of material that is relatively air impermeable but water vapor permeable, both to the degree specified, with sealed seams and with sealed joints to adjacent surfaces. Note: For the purposes of this specification, vapor impermeable air barriers are classified as vapor retarders.

1.04 REFERENCE STANDARDS

- A. ASTM C297/C297M - Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions; 2016.
- B. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension; 2016.
- C. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; 2017.
- D. ASTM D4541 - Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers; 2017.
- E. ASTM E2357 - Standard Test Method for Determining Air Leakage of Air Barrier Assemblies; 2017.
- F. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2018.
- G. ASTM E96/E96M - Standard Test Methods for Water Vapor Transmission of Materials; 2016.
- H. ASTM E2178 - Standard Test Method for Air Permeance of Building Materials; 2013.
- I. ICC-ES AC212 - Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers over Exterior Sheathing; 2015.
- J. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components; 2012.

1.05 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Conference: A pre-installation conference shall be held prior to commencement of field operations to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work. Preinstallation conference shall include the Architect, General Contractor, Manufacturer's Representative and Applicator. Agenda for meeting shall include but not be limited to the following:
 - 1. Review of submittals.
 - 2. Review of surface preparation, minimum curing period and installation procedures.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

3. Review of special details and flashings.
 4. Sequence of construction, responsibilities and schedule for subsequent operations.
 5. Review of mock-up requirements.
 6. Review of inspection, testing, protection and repair procedures.
- B. Coordination of trades
1. The Architect, General Contractor and Applicator shall evaluate adjacent materials such as windows, doors, etc. for conformance to project details. Adjacent trades shall provide scaled shop drawings for review by the Architect.
 2. The General Contractor shall make provision for installation of air seals between the primary air barrier and other wall components (penetrations, etc.) in order to maintain continuity of an air barrier system.
 3. The Applicator shall provide protection of rough openings before installing windows, doors, and other penetrations through the wall.

1.06 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on material characteristics, performance criteria, and limitations.
- C. Shop Drawings: Provide drawings of special joint conditions.
- D. Manufacturer's Installation Instructions: Indicate preparation, installation methods, and storage and handling criteria.
- E. Air/water-resistive barrier membrane manufacturer shall provide an ICC-ES Evaluation Report confirming compliance with AC212 Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers over Exterior Sheathing or Masonry or ICF.
- F. ABAA Manufacturer Qualification: Submit documentation of current evaluation of proposed manufacturer and materials.
- G. ABAA Installer Qualification: Submit documentation of current contractor accreditation and current installer certification; keep copies of each contractor accreditation and installer certification on site during and after installation, and present on-site documentation upon request.

1.07 QUALITY ASSURANCE

- A. Air Barrier Association of America (ABAA) Evaluated Materials Program; www.airbarrier.org/#sle: Use evaluated materials from a single manufacturer regularly engaged in air barrier material manufacture, and use secondary materials approved in writing by primary material manufacturer.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience and approved by manufacturer. Air barrier Subcontractor(s) shall be accredited minimum of three years at the time of bidding and during the complete installation period by the Air Barrier Association of America (ABAA).
- C. Components used in this section shall be sourced from one manufacturer, including membrane, air barrier sealants, primers, mastics, self-adhered flashings and adhesives as listed as an evaluated air barrier assembly by the Air Barrier Association of America.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the job site in undamaged and original packaging indicating the name of the manufacturer and product.
- B. All pail goods shall bear the ABAA Evaluated Air Barrier label
- C. Store roll materials on end in original packaging.
- D. Keep all products stored at above 40°F. Apply to a substrate with a surface T°F of 40°F and rising. DO NOT ALLOW PRODUCT TO FREEZE.
- E. Protect rolls from direct sunlight until ready for use.
- F. Do not double stack pail goods.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

1.09 MOCK-UP

- A. Mockups: Before beginning installation of air/water-resistive barrier, provide air/water-resistive barrier work for exterior wall assembly mockups, incorporating backup wall construction, external cladding, window, door frame and sill, insulation, roof tie-in and flashing to demonstrate surface preparation, crack and joint treatment, and sealing of gaps, terminations, and penetrations of air barrier membrane.
 - 1. Coordinate construction of mockup to permit inspection by Owner's testing agency of air/water-resistive barrier before external insulation and cladding is installed.
 - 2. If Architect determines mockups do not comply with project requirements, reconstruct mockups and apply air/water-resistive barrier until mockups are approved.
- B. Install air barrier materials in mock-up specified in Section 04 2000.

1.10 FIELD CONDITIONS

- A. Maintain temperature and humidity recommended by the materials manufacturers before, during and after installation.

1.11 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Provide manufacturers 10 year material warranty.
 - 1. Ensure all manufacturers installation guidelines, specifications, details and warranty requirements are met.
 - 2. Warranty period shall be 10 years from date of substantial completion.

PART 2 PRODUCTS**2.01 WEATHER BARRIER ASSEMBLIES**

- A. General: Air/water-resistive barrier shall be capable of performing as a continuous vapor-permeable air barrier and as a liquid-water drainage plane flashed to discharge to the exterior incidental condensation or water penetration. At wall cladding transitions, the air/water-resistive barrier shall form a continuous air barrier and shall make provision for water drainage, either by creation of an unobstructed drainage plane that extends across the cladding transition or by flashing to discharge to the exterior at the transition. Air barrier assemblies shall be capable of accommodating substrate movement and sealing substrate expansion and control joints, construction material changes, and transitions at perimeter conditions without deterioration and air leakage exceeding specified limits, or interruption of the drainage plane.
- B. Air Barrier shall be compatible with glass-mat faced gypsum, masonry and expanded polystyrene (ICF) wall systems.
- C. The weather barrier assembly, including but not limited to, fluid applied air/water-resistive barrier membrane, sheathing fabric, transition membrane and flashing primer shall be obtained or approved as a single-source from the membrane manufacturer to ensure system compatibility and integrity.
- D. Air Barrier:
 - 1. On outside surface of inside wythe of exterior masonry cavity walls use air barrier coating on wall surface and related thru-wall flashings, flashings for rough openings, windows, doors, base flashings and terminations to the roof.
 - 2. On outside surface of sheathing of exterior walls use air barrier coating on wall surface and related thru-wall flashings, flashings for rough openings, windows, doors, base flashings and terminations to the roof.
 - 3. On outside surface of ICF wall systems use air barrier coating on wall surface and related thru-wall flashings, flashings for rough openings, windows, doors, base flashings and terminations to the roof

2.02 AIR BARRIER MATERIALS (WATER VAPOR PERMEABLE AND WATER-RESISTIVE)

- A. Air Barrier, Fluid Applied: Vapor permeable, elastomeric waterproofing.
 - 1. Air Barrier Coating:

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- a. Assembly Performance: Provide a continuous air barrier in the form of an assembly tested in accordance with ASTM E2357
- b. Dry Film Thickness (DFT): Shall be as specified in the manufacturer written instructions for the substrate being applied and to produce a smooth pinhole-free surface and as required to achieve warranty.
- c. Air Permeance: 0.004 cubic feet per minute per square foot, maximum, when tested in accordance with ASTM E2178.
- d. Water Vapor Permeance: 10 perms, minimum, when tested in accordance with ASTM E96/E96M, Procedure B.
- e. Ultraviolet (UV) and Weathering Resistance: Approved in writing by manufacturer for up to six months of weather exposure after application.
- f. Tensile bond: Minimum 15 psi or exceeds strength of substrate when tested in accordance with ASTM C297/C297M.
- g. Pull Adhesion: Minimum 110kPa (16psi) or substrate failure in accordance with ASTM D4541 for the substrate being applied.
- h. Elongation: 50 percent, minimum, when tested in accordance with ASTM D412.
- i. Multi-Story Wall Assembly Burn Test: For multi-story buildings where required by code, Air Barrier, as a component of a wall assembly, shall have passed a NFPA 285 complete wall fire test.
- j. Surface Burning Characteristics: Flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM E84.
- k. Nail Sealability: Pass, when tested in accordance with ASTM D1970/D1970M.
- l. VOC Content: 50 g per L or less.
- m. Code Acceptance: Comply with applicable requirements of ICC-ESAC212.
- n. Sealants, Tapes and Accessories: As recommended by coating manufacturer.
- o. Manufacturers:
 - 1) BASF Corporation: www.master-builders-solutions.basf.us.
 - 2) Carlisle Coatings and Waterproofing, Inc: www.carlisleccw.com.
 - 3) Dow Corning Corporation: www.dowcorning.com.
 - 4) DuPont Building Innovations: www.dupont.com.
 - 5) GE Silicones: www.siliconeforbuilding.com.
 - 6) Pectora Corporation: www.pecora.com.
 - 7) PROSOCO, Inc: www.prosoco.com.
 - 8) STS Coatings, Inc.: www.stscoatings.com.
 - 9) W.R. Meadows, Inc: www.wrmeadows.com.
 - 10) Substitutions: See Section 01 6000 - Product Requirements.

2.03 ACCESSORIES

- A. Sealants, Flashings, and Accessories for Sealing Weather Barrier and Sealing Weather Barrier to Adjacent Substrates: As specified or as recommended by weather barrier manufacturer.
- B. Liquid Flashing: One part, fast curing, non-sag, elastomeric, gun grade, trowelable liquid flashing.
- C. Transition Membrane, Seam and Window Flashing: Peel and stick flashing membrane film bonded to sealant.
 1. Thickness: 40 mils, 0.040 inch overall.
 2. Roll Width: 4, 6, 8 inch, as required for application.
 3. Coordinate installation with the Masonry Contractor and other provisions as required in Section 04 2000 - Unit Masonry.
- D. Thinners and Cleaners: As recommended by material manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces and conditions are ready to accept the work of this section.
- B. Walls

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

1. Substrates
 - a. Wall sheathing must be securely fastened per applicable building code and sheathing manufacturer's requirements.
 - b. Examine surfaces to receive air/water resistive barrier and verify that substrate and adjacent materials are dry, clean, sound, and free of releasing agents, paint, or other residue or coatings. Verify substrate is flat, free of fins or planar irregularities greater than 1/4" in 10'. Verify that no excess mortar exists on masonry ties, shelf angles and other obstructions.
 - c. Verify that concrete is visibly dry and free of moisture.
 - d. Verify that masonry joints are struck flush and completely filled with mortar.
 2. Flashings
 - a. All flashings must be installed in accordance with specific design and building code requirements. Where appropriate, end-dams must be provided.
 - b. Openings must be flashed prior to window/door, HVAC, etc. installation. Windows and openings shall be flashed according to design and building code requirements.
 - c. Individual windows that are ganged to make multiple units require continuous head flashing and the joints between the units must be fully sealed.
 3. Kick-out flashing
 - a. Kick-out flashing must be installed leak-proof and angled (min 100°) to allow for proper drainage and water diversion.
 4. Air Seals
 - a. Install between the primary air/weather barrier and other wall components (penetrations, etc.) in order to maintain continuity of the air barrier system
- C. Report all unsatisfactory conditions to the General Contractor. Application of fluid-applied air/water-resistive barrier shall not proceed until all unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. General: No additives are permitted unless specified in product mixing instructions. Close containers when not in use. Prepare in a container that is clean and free of foreign substances. Do not use a container which has contained or been cleaned with a petroleum-based product. Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.
- B. Sheathing joints or joints in ICF less than 1/2" shall be treated with liquid flashing as recommended by the manufacturer.
- C. Sheathing joints or joints in ICF over 1/2" shall be treated with transition material or as recommended by the manufacturer.
- D. Remove projections, protruding fasteners, and loose or foreign matter that might interfere with proper installation.
- E. Clean and prime substrate surfaces to receive adhesives and sealants in accordance with manufacturer's instructions.

3.03 INSTALLATION

- A. Install materials in accordance with manufacturer's instructions.
- B. Air Barriers: Install continuous air tight barrier over surfaces indicated, with sealed seams and with sealed joints to adjacent surfaces.
- C. Apply sealants and adhesives within recommended application temperature ranges. Consult manufacturer if temperature is out of this range.
- D. Coatings:
 1. Prepare substrate in manner recommended by coating manufacturer; treat joints in substrate and between dissimilar materials as recommended by manufacturer.
 2. Where exterior masonry veneer is to be installed, install masonry anchors before installing weather barrier over masonry; seal around anchors air tight.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

3. Use flashing to seal to adjacent construction and to bridge joints.
- E. Openings and Penetrations in Exterior Weather Barriers:
 1. Install flashing extending a minimum 3 inches onto vertical wall and into rough opening with transition membrane.
 2. Hollow Metal Door Frames: Seal door frame to wall surface with transition membrane.
 3. Perimeter wood nailers at wall openings: Cover all exposed surfaces of wood nailers with transition membrane. Extend membrane over ICF, sheathing, masonry and metal framing.
 4. Aluminum frames: Seal frames to the wall surface with transition membrane.
 5. Service and Other Penetrations: Form flashing around penetrating item and seal to weather barrier surface.

3.04 FIELD QUALITY CONTROL

- A. See Section 01 4000 - Quality Requirements, for additional requirements.
- B. Do not cover installed weather barriers until required inspections have been completed.
- C. Obtain approval of installation procedures by the weather barrier manufacturer based on a mock-up installed in place, prior to proceeding with remainder of installation.
- D. Take digital photographs of each portion of the installation prior to covering up.

3.05 PROTECTION

- A. Do not leave materials exposed to weather longer than recommended by manufacturer.

END OF SECTION

SECTION 074213.23
METAL COMPOSITE MATERIAL WALL PANELS**PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

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

1.2 SUMMARY

- A. Section includes MCM wall panels.

1.3 DEFINITIONS

- A. MCM: Metal Composite Material is two sheets of smooth metal continuously thermo-bonded to a solid Fire Retardant (FR) core under precise temperature, pressure, and tension.
- B. DBVR: Drained & Back-Ventilated Rainscreen is a system designed to manage and limit water from contacting the air/water barrier and allowing for the subsequent drying within the cavity via ventilation.
- C. PER: Pressure Equalized Rainscreen is a system designed to equalize pressure between interior cavities to prevent water from contacting the air/water barrier and allowing for the subsequent drying within the cavity via ventilation.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference:
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, MCM panel Fabricator and Installer, MCM sheet manufacturer's representative, structural-support Installer, and installers whose work interfaces with or affects MCM panels, including installers of doors, windows, and louvers.
 - 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. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
 - 4. Review flashings, special siding details, wall penetrations, openings, and condition of other construction that affect MCM panels.
 - 5. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
 - 6. Review temporary protection requirements for MCM panel assembly during and after installation.
 - 7. Review procedures for repair of panels damaged after installation.
 - 8. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.5 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:

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

1. MCM system fabricator to provide shop drawings including fabrication and installation layouts of MCM panels; details of edge conditions, joints, panel profiles, corners, attachment assembly, trim, flashings, closures, and accessories.
 2. Accessories: Include details of the flashing, trim and anchorage, at a scale of not less than 1-1/2 inches per 12 inches (1:10).
 - C. Samples for Initial Selection: For each type of MCM panel indicated with factory-applied color finishes to match existing color.
 1. Include similar Samples of trim and accessories involving color selection.
 - D. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
 1. MCM Panels: 12 inches (305 mm) long by actual panel width. Include fasteners, closures, and other MCM panel accessories. Submit custom color samples in paint manufacturer's standard size.
- 1.6 INFORMATIONAL SUBMITTALS**
- A. Product Test Reports: For each product, tests performed by a qualified testing agency.
 1. MCM Manufacturer's Material Test Reports: Certified test reports showing compliance with specific performance or third-party listing documenting compliance to comparable code sections IBC 1407.14 and IBC 1703.5.
 2. MCM System Fabricator's Certified System Tests Reports: Certified system test reports showing system compliance with specific performance or third-party listing documenting compliance code section. Base performance requirements on MCM system type provided.
 - a. DBVR System: Tested to AAMA 509.
 - b. PER System: Tested to AAMA 508.
 - c. NFPA 285.
 - B. Environmental Product Declaration (EPD): Provide the Product-Specific or Industry-Wide Type III EPD in compliance with ISO 14025.
 - C. Field quality-control reports.
 - D. Sample Warranties.
- 1.7 CLOSEOUT SUBMITTALS**
- A. Maintenance Data: For MCM panels to include in maintenance manuals.
- 1.8 QUALITY ASSURANCE**
- A. MCM Manufacturer Qualifications: An entity that has successfully manufactured MCM at a domestically located factory for a minimum of 5 years.
 - B. MCM Fabricator Qualifications: An entity that has successfully fabricated and assembled MCM panels and approved by the MCM manufacturer.
 - C. MCM Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by MCM Fabricator.
 - D. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for MCM fabrication and installation.
 1. Build mockup of typical MCM panel assembly including supports, attachments, 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.

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

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

1.10 FIELD CONDITIONS

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

1.11 COORDINATION

- A. Coordinate MCM panel installation with rain drainage work, flashing, trim, construction of soffits, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.12 WARRANTY

- A. Refer to Manufacturer's standard terms and conditions.
- B. Material Warranty: Submit the Manufacturer's standard form agreeing to furnish fabrication, labor and material to repair or replace MCM panels that exhibits defects within the specified warranty period.
 1. Coverage Includes:
 - a. Delamination of metal bond to the fire retardant core.
 2. Warranty Period: 10 years from date of Substantial Completion
- C. Workmanship Warranty: Submit the Fabricator/Installer's standard form agreeing to furnish fabrication, labor and material required to repair or replace work which exhibits workmanship defects within the specific warranty period.
 1. Warranty Period: 2 years from the date of Substantial Completion.
- D. Warranty on Panel Finishes: Submit the Manufacturer's standard form agreeing to furnish fabrication, labor and material to repair or replace MCM panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
 1. Coverage includes:
 - a. Color fading more than (5) Delta E 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 the paint to adhere to the bare metal substrate.
 2. Warranty Period: 20 years from date of Substantial Completion.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

PART 2 - PRODUCTS**2.1 PERFORMANCE REQUIREMENTS**

- A. Basis of Design: ALLUCOBOND, by Alcan Composites USA, Inc. Original Panel "Rout and Return Dry System. The design intent is to match all aspects of the original ALLUCOBOND "Rout and Return Dry System" in regard to profiles, seams, gaps, texture and color.
- B.
- C. Structural Performance: Provide an MCM panel system capable of withstanding the effects of the following loads, based on testing in accordance with ASTM E330:
 - 1. Wind Loads: 120 MPH.
 - 2. Panel Deflection Limit: For wind loads, no greater than 1/60 of the span.
 - 3. Framing Member Deflection Limits: For wind loads, no greater than 1/175 of the span.
- D. Air Infiltration: Air leakage of not more than 0.06 cfm/sq. ft. (0.3 L/s per sq. m) of wall area when tested in accordance with ASTM E283 at a test-pressure difference of 6.24 lbf/sq. ft. (300 Pa).
- E. Water Penetration under Static Pressure: No water penetration to room side of assembly when tested for 15 minutes in accordance with ASTM E331 a test-pressure difference of 6.24 lbf/sq. ft. (300 Pa).
- F. Thermal Movements: Locate expansion and contraction points to allow for free and noiseless thermal movements from surface temperature changes at a range of 20 deg F to 180 deg F (minus 29 to 82.2 deg C), material surfaces.
- G. Fire Propagation Characteristics: Provide an MCM wall system and complete wall assembly that passes NFPA 285.
- H. Rainscreen Cladding Performance: Provide an MCM wall panel system complying with one of the following rainscreen system tests per the architect's discretion:
 - 1. AAMA 509: Dynamic water penetration classification no greater than W1 or 1.0oz/ft².
 - 2. AAMA 508: Water mist or water droplets appearing in less than 5% of the air/water barrier surface, and no continuous streaming at any location on the air/water barrier. Pressure equalization lag time between the cavity and cyclic wind pressure shall not exceed 0.08 sec². The maximum differential between the cavity and the cyclic wind pressure shall not exceed 50% of the maximum test pressure.

2.2 MCM WALL PANELS

- A. MCM Wall Panel Systems: Provide shop formed and assembled MCM panels formed into profiles for the installation method indicated and per the construction drawings. Include attachment assembly components, panel stiffeners, and accessories required.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide ALUCOBOND® PLUS manufactured by 3A Composites USA, Inc., or comparable product by:
 - a. Arconic Architectural Products.
 - b. Mitsubishi Chemical America.
- B. Aluminum-Faced Composite Wall Panels: Formed with 0.020-inch- (0.50-mm-) thick aluminum sheet facings.
 - 1. Panel Thickness: 4mm (0.157")
 - 2. Core: Fire retardant.
 - 3. Exterior Finish: Acceptable coating resins are polyvinylidene difluoride (PVDF), fluorinated ethylene vinyl ether (FEVE), super-durable polyester (SDP), siliconized polyester (SMP) & anodized. The number of

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

coats and film thicknesses shall comply with the specified warranty period and specified basis-of-design finish(es):

- a. Basis-of-design finish:
 - 1) Finish 1: Match Existing Color
- 4. Peel Strength: 22.5 in-lb/in. (100 N x mm/mm) when tested for bond integrity in accordance with ASTM D1781.
- 5. Fire Performance: Flame spread less than 25 and smoke developed less than 450, in accordance with ASTM E84.
- C. Attachment Assembly Components: Formed from extruded aluminum or other compatible material per the construction drawings and in compliance with all required performance testing.

2.3 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Sub-framing and Furring: ASTM C645, cold-formed, metallic-coated steel sheet ASTM A653/A653M, G90 (Z275 hot-dip galvanized) coating designation or ASTM A792/A792M, Class AZ50 (Class AZM150) aluminum-zinc-alloy coating designation unless otherwise indicated. Provide Fabricator's standard sections as required for support and alignment of MCM panel system.
- B. Panel Accessories: Provide components required for a rainscreen panel system including trim and flashing as indicated on the construction drawings. Match material and finish of MCM panels unless otherwise indicated.
- C. Flashing and Trim: Provide flashing and trim formed from same material as MCM panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, end walls, framed openings, rakes, fasciae, and parapet caps.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide AXCENT™ manufactured by 3A Composites USA Inc., or comparable product by one of the following:
 - a. Arconic Architectural Products.
 - b. Mitsubishi Chemical Composites.
 - 2. Aluminum Trim: Formed with minimum 0.040-inch (1.00-mm-) thick, coil-coated aluminum sheet unless otherwise indicated on the construction drawings.
 - 3. Basis-of-design Finish: To match existing MCM wall panel system.
- D. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of MCM panels by means of plastic caps or factory-applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.
- E. Panel Sealants: ASTM C920; elastomeric polyurethane or silicone sealant; of type, grade, class, and use classifications required to seal joints in MCM panels and remain weathertight; and as recommended in writing by MCM panel manufacturer.

2.4 FABRICATION

- A. General: Fabricate and finish MCM panels and accessories to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and dimensions as indicated on the construction drawings.
- B. Fabricate MCM panel joints to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and dimensions as indicated on the construction drawings.
- C. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations or recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

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: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints for additional strength.
3. Seams for Other Than Aluminum: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.
4. Sealed Joints: Form non-expansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
5. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.
6. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.
 - a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal wall panel manufacturer for application but not less than thickness of metal being secured.

2.5 FINISHES

- A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces provided by others is acceptable. Variation in appearance from different production batches of finish effects including but not limited to anodized, brushed coil, mica flake, metallic flake, and texture is expected. Variation in appearance from material not oriented uniformly, 90 or 180 degrees, of finish affects including but not limited to anodized, brushed coil, mica flake, metallic flake and texture is expected.
- C. Allowable finishes for MCM Panels and Accessories: See basis-of-design finish selection and warranty requirements. Prepare, pretreat, and apply coatings to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 1. Coil Coated Finishes:
 - a. PVDF Fluoropolymer: AAMA 2605. Containing not less than 70 percent PVDF resin by weight in color coat.
 - b. FEVE Fluoropolymer: AAMA 2605. F 100 percent fluorinated ethylene vinyl ether resin in color coat.
 - c. SDP Super-durable Polyester: AAMA 2605. Containing carboxyl or hydroxyl functional resin in the color coat.
 - d. SMP Siliconized Polyester: AAMA 2604. Containing silicone-modified, polyester-enamel in the color coat.
 2. Anodized Finish
 - a. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.
 - b. Color Anodic Finish: AAMA 611, AA-M12C22A42/A44, Class I, 0.018 mm or thicker.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, MCM panel supports, and other conditions affecting performance of the Work.
 1. Examine wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by MCM wall panel manufacturer.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

2. Examine wall sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by MCM wall 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 assemblies penetrating MCM panels to verify actual locations of penetrations relative to seam locations of MCM panels before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Miscellaneous Supports: Install sub framing, furring, and other miscellaneous panel support members and anchorages in accordance with ASTM C754 and MCM panel manufacturer's written recommendations.

3.3 MCM PANEL INSTALLATION

- A. General: Install MCM panels in accordance with Fabricator's written instructions in orientation, sizes, and locations indicated on Drawings. Install panels perpendicular to supports unless otherwise indicated. Anchor MCM panels and other components of the Work securely in place, with provisions for thermal and structural movement.
1. Shim or otherwise plumb substrates receiving MCM panels.
2. Flash and seal MCM 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 MCM 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 MCM panel work proceeds.
6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
7. Align bottoms of MCM 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 aluminum or stainless steel fasteners for surfaces exposed to the exterior; use aluminum or galvanized-steel fasteners for surfaces exposed to the interior.
- C. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by MCM panel manufacturer.
- D. Attachment Assembly, General: Install attachment assembly required to support MCM wall panels, including sub girts, perimeter flashing components, , and panel clips as indicated in the construction drawings.
- E. Panel Installation: Attach MCM wall panels to supports at locations, spacings, and with fasteners to achieve performance requirements specified. Orient all panels in the same direction to avoid color variance unless other specified.
- 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 MCM panel assembly including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

MCM panel Fabricator; or, if not indicated, provide types recommended in writing by MCM system Fabricator.

- G. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, or 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 are permanently watertight.
- 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 to result in waterproof 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 (605 mm) of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with mastic sealant (concealed within joints).

3.4 PROJECT CONDITIONS

- A. Substrate Tolerances: The General Contractor is responsible for providing a substrate with a tolerance of 1/4 inch in 20.0 feet (6mm in 6m), on level, plumb, and location control lines as indicated and within 1/8 inch (3mm) offset adjoining faces of alignment of matching profiles.
- B. Field Measurements: Verify locations of wall framing members and wall opening dimensions by field measurements prior to the fabrication of the MCM system. Field measurements to be acquired once all substrate materials and adjacent materials are installed. Field measurements to be acquired with 3D laser scanning equipment positioned at adequate locations around the building to capture as-built data in the form of a point cloud. Submit "As Built Shop Drawings" with required adjustments to panel dimensions and layouts, unless otherwise permitted by the Architect and General Contractor.

3.5 FIELD QUALITY CONTROL

- A. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.
- B. Prepare test and inspection reports.

3.6 CLEANING AND PROTECTION

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

END OF SECTION 074213.23

SECTION 07 5419
FULLY ADHERED SINGLE-PLY PVC ROOF
SYSTEM

PART 1 - GENERAL

1.01 INSTALLER QUALIFICATIONS

- A. Roofing Installer must be:
 - 1. Currently prequalified with the Owner in accordance with Owner's prequalification requirements.
 - 2. Currently in good standing with the manufacturer.
- B. It shall remain each Contractor's responsibility to determine his current status with the manufacturer's certification plan.

1.02 QUALITY ASSURANCE

- A. Applicator/Installer:
 - 1. Acceptable to roof material manufacturer for the manufacturer's warranty requirements.
 - 2. Five (5) years successful experience on projects similar in size and scope.
 - 3. Experienced in the type of roofing work required.
 - 4. Successfully completed previous projects warranted by the manufacturer.

1.03 MANUFACTURER QUALIFICATIONS

- A. A qualified manufacturer that has been UL Listed and has FM Approvals for membrane roofing system similar to that used in this project for a minimum of fifteen (15) years.
- B. The roofing membrane manufacturer is defined as a company which makes the primary roofing membrane and flashing membrane in its own factories from ruder, rawer states of material. No "Private Label" roofing membrane or flashing membrane material (in which one company's name goes on a product manufactured by others) is acceptable for this project.
- C. Testing Laboratory Services: Test results shall meet or exceed established standards.
- D. Underwriters Laboratory (Roofing Covering): Class A fire hazard classification.
- E. Comply with governing local, state, and federal regulations, safety standards, and codes.

1.04 REFERENCES (INCLUDING LATEST REVISIONS)

- A. American Society for Testing and Materials:
 - 1. ASTM B 209 Specification for Aluminum and Aluminum Alloy Sheet and Plate
 - 2. ASTM C 719 Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cycle Movement (Hockman Cycle)
 - 3. ASTM C 794 Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants
 - 4. ASTM C 920 Specification for Elastomeric Joint Sealants
 - 5. ASTM D 312 Specification for Asphalt Used in Roofing
 - 6. ASTM D 1863 Specification for Mineral Aggregate Used on Built-up Roofs
 - 7. ASTM D 2178 Specification for Asphalt Glass Felt Used in Roofing and Waterproofing
 - 8. ASTM D 2824 Specification for Aluminum - Pigmented Asphalt Roof Coatings
 - 9. ASTM D 4586 Specification for Asphalt Roof Cement, Asbestos Free
 - 10. ASTM A 361 Sheet Steel, Zinc-Coated (Galv.) by the Hot-Dip Process for Roofing and Siding
 - 11. ASTM C 177 Test for Thermal Laboratory Services
 - 12. ASTM C 728 Perlite Thermal Insulation Board
- B. Federal Specifications:

1. LLL-I-535B
 2. SS-A-701B
 3. SS-C-153
 4. SS-C-153C
 5. SS-R-620B
 6. TT-C-498C
 7. TT-P-320D
 8. TT-S-00227E
 9. TT-S-00230C
 10. SS-S-001534 (GSA-FSS)
 11. L-P-375
- C. Industry Standards:
1. The National Roofing Contractors Association (NRCA) - Roofing and Waterproofing Manual
 2. Single-ply Roofing Institute (SPRI) - A Professional Guide to Specifications Manual
 3. Sheet Metal and Air Conditioning Contractors National Association (SMACNA) - Architectural Sheet Metal Manual
 4. American Society of Civil Engineers – ASCE 7

1.05 SUBMITTALS

- A. Samples and Manufacturer's Submittals: Submit prior to delivery or installation.
1. Samples of all roofing system components including all specified accessories.
 2. Submit samples of proposed warranty complete with any addenda necessary to meet the warranty requirements as specified.
 3. Submit latest edition of manufacturer's specifications and installation procedures. Submit only those items applicable to this project.
 4. A written statement from the roofing materials manufacturer approving the installer, specifications and drawings as described and/or shown for this project and stating the intent to guarantee the completed project.
 5. Manufacturer's Equiviscous Temperatures (EVT) for the specified bitumens.
- B. Shop Drawings: Provide manufacturer's approved details of all perimeter conditions, projection conditions, and any additional special job conditions which require details other than indicated in the drawings.
- C. Maintenance Procedures: Within ten days of the date of Substantial Completion of the project, deliver to the Owner three copies of the manufacturer's printed instructions regarding care and maintenance of the roof.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's original, unopened containers and rolls with all labels intact and legible including labels indicating appropriate warnings, storage conditions, lot numbers, and usage instructions. Materials damaged in shipping or storage shall not be used.
- B. Deliver materials requiring fire resistance classification to the job with labels attached and packaged as required by labeling service.
- C. Deliver materials in sufficient quantity to allow continuity of work.
- D. Handle and store material and equipment in such a manner as to avoid damage. Liquid products shall be delivered sealed, in original containers.
- E. Handle rolled goods so as to prevent damage to edge or ends.
- F. Select and operate material handling equipment so as not to damage existing construction or applied roofing.
- G. Moisture-sensitive products shall be maintained in dry storage areas and properly covered. Provide continuous protection of materials against wetting and moisture absorption. Store roofing and flashing materials on clean raised platforms with weather protective covering when stored outdoors.

- H. Store rolled goods on end.
- I. Protect materials against damage by construction traffic.
- J. The proper storage of materials is the sole responsibility of the contractor and any wet or damaged roofing materials shall be discarded, removed from the project site, and replaced prior to application.
- K. Comply with fire and safety regulations, especially with materials which are extremely flammable and/or toxic. Use safety precautions indicated on labels.
- L. Products liable, such as emulsions, to degrade as a result of being frozen shall be maintained above 40° F in heated storage.
- M. No storage of materials shall be permitted on roof areas other than those materials that are to be installed the same day.

1.07 SITE CONDITIONS

- A. Job Condition Requirements:
 - 1. Apply roofing in dry weather.
 - 2. Do not apply roofing when ambient temperature is below 40° F.
 - 3. Coordinate the work of the contractor with the work to be performed by the Owner's personnel, to ensure proper sequencing of the entire work. The Owner's personnel will be erecting interior protection for equipment, if required. The contractor is to schedule his work so that adequate time is allowed for the Owner's personnel to perform the work. No roof work shall be performed until the Owner's personnel have completed erection of the interior protection in that area.
 - 4. Proceed with roofing work only when weather conditions are in compliance with manufacturer's recommended limitations, and when conditions will permit the work to proceed in accordance with specifications.
 - 5. Schedule the work so the building will be left watertight at the end of each day. Do not remove more roofing material than can be reinstalled in any working day.
 - 6. All surfaces to receive new roofing shall be smooth, dry, and free from dirt, debris, and foreign material before any of this work is installed. Competent operators shall be in attendance at all times equipment is in use. Materials shall be stored neatly in areas designated by the Owner. Load placed on the roof at any point shall not exceed the safe load for which the roof is designed.
 - 7. The contractor shall take all necessary precautions to protect the roof mat and deck from damage. The contractor shall be responsible for repairing all new areas of damage caused by the negligence of the contractor, at the contractor's expense. The Owner's on-site representative shall determine damage caused by contractor negligence.
 - 8. The contractor shall follow local, state, and federal regulations, safety standards, and codes for the removal, handling, and disposal of asbestos containing materials, if present. When a conflict exists, use the stricter document.
 - 9. Follow insurance underwriter's requirements acceptable for use with specified products or systems.
 - 10. Due caution should be exercised so as not to alter the structural integrity of the deck. When cutting through any deck, care should be taken so as not to damage the deck or any part of the deck, such as post tension cables, etc.
 - 11. All kettles shall have an automatic thermostat control, and temperature gauge, all in working order.
 - 12. The contractor is to verify the location of all interior ducts, electrical lines, piping, conduit, and/or similar obstructions. The contractor is to perform all work in such a manner as to avoid contact with the above mentioned items.
 - 13. Surface and air temperatures should be a minimum 45° F during applications of cleaner and waterproof coating and remain above 45° F for a minimum of four (4) hours following applications. Verify compatibility of cleaner with coatings, paints, primers and joint sealers specified. Advise Owner's representative of any problems in this regard prior to commencing cleaning operations.
 - 14. Temporary Sanitary Facilities: The contractor shall furnish and maintain temporary sanitary facilities for employees use during this project. These will be removed after the

completion of the project. All portable facilities shall comply with local laws, codes, and regulations.

B. Protection of Work and Property:

1. Work: The contractor shall maintain adequate protection of all his work from damage and shall protect the Owner's and adjacent property from injury or loss arising from this contract. He shall provide and maintain at all times any OSHA required danger signs, guards, and/or obstructions necessary to protect the public and his workmen from any dangers inherent with or created by the work in progress. All federal, state, and city rules and requirements pertaining to safety and all EPA standards, OSHA standards, NESHAP regulations pertaining to asbestos as required shall be fulfilled by the contractor as part of his proposal.
2. Property: Protect existing planting and landscaping as necessary or required to provide and maintain clearance and access to the work of this contract. Examples of two categories or degrees of protection are generally as follows: a) removal, protection, preservation, or replacement and replanting of plant materials; b) protection of plant materials in place, and replacement of any damage resulting from the contractor's operations.
3. Twenty-four Hour Call: The contractor shall have personnel on call 24 hours per day, seven (7) days per week for emergencies during the course of a job. The Owner's Project Manager is to have the 24 hour numbers for the contact. Contractor must be able to respond to any emergency call and have personnel on-site within two (2) hours after contact. Numbers available to the Owner's Project Manager are to be both home and office numbers for:
 - a) Job Foreman
 - b) Job Superintendent
 - c) Owner or Company Officer

C. Damage to Work of Others: The contractor shall repair, refinish, and make good any damage to the building or landscaping resulting from any of his operation. This shall include, but is not limited to, any damage to plaster, tile work, wall covering, paint, ceilings, floors, or any other finished work. Damage done to the building, equipment, or grounds must be repaired at the successful contractor's expense holding the Owner harmless from any other claims for property damage and/or personal injury.

D. Measurements: It will be the contractor's responsibility to obtain and/or verify any necessary dimensions by visiting the job site, and the contractor shall be responsible for the correctness of same. Any drawings supplied are for reference only.

E. Use of Premises:

1. The contractor is advised that the Owner will occupy the building at all times, and the contractor must provide all safeguards required to protect personnel and to keep noise levels as low as reasonably possible for each operation.
2. The contractor shall:
 - a) Coordinate work in such a manner as to not interfere with the normal operation of the building.
 - b) Assume full responsibility for protection and safekeeping of products stored on premises.
 - c) Agree to hold the Owner harmless in any and all liability of every nature and description which may be suffered through bodily injuries, including death of any persons by reason of negligence of the contractor, agents, employees, or subcontractors.

F. Cleaning and Disposal of Materials:

1. Contractor shall keep the job clean and free from all loose materials and foreign matter. Contractor shall take necessary precautions to keep outside walls clean and shall allow no roofing materials to remain on the outside walls.
2. All waste materials, rubbish, etc., shall be removed from the Owner's premises as accumulated. Rubbish shall be carefully handled to reduce the spread of dust. A suitable scrap chute or hoist must be used to lower any debris. At completion, all work areas shall be left broom clean and all contractor's equipment and materials removed from the site.
3. All bituminous or roofing related materials shall be removed from ladders, stairs, railings, and similar parts of the building.
4. Debris shall be deposited at an approved disposal site.

1.08 WARRANTY

- A. Twenty (20) Year NDL with no exclusion for 2" hail occurrence and wind speeds up to 155 mph
Warranty: The complete roofing system shall be guaranteed for a minimum of twenty (20) years from the date of Substantial Completion for this project. Guarantee responsibilities shall be as follows:
 1. The manufacturer's warranty will include a 120 mph Wind Rider for the field of the roof and a 155 mph Wind Rider for the perimeter metals as supplied by the roofing system manufacturer.
 2. Roofing contractor shall guarantee the entire roofing system for a period of two (2) years from the date of Substantial Completion.
 3. The materials manufacturer shall guarantee the entire roofing system as supplied by system manufacturer for a total period of twenty (20) years from the date of substantial completion.
 4. Membrane manufacturer shall provide the written warranty as specified.
 5. The entire roofing system shall be guaranteed to be watertight and against any failures of workmanship and materials. Repair of the system, including materials and labor, shall be done at no cost to the Owner.
 6. Warranty repairs shall be performed by a certified installer. The repairs shall be performed in accordance with the manufacturer's written instructions and recommended procedures so as to not void the warranty.
- B. During the proposal period each Contractor shall make arrangements with the materials manufacturer to provide the required warranty. Refer to SUBMITTALS paragraph in this section for requirements concerning submittals of warranty.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Compatibility: Provide materials that are recommended by manufacturers to be fully compatible with indicated substrates, or provide separation materials as required to eliminate contact between incompatible materials.
- B. Materials herein specified shall be supplied or approved in writing by the manufacturer issuing the warranty.
- C. The white polyester reinforced fleece backed adhered PVC roofing system shall only be applied by manufacturer approved and trained roofing contractors.
- D. The manufacturer shall have 15 years UL listing for the membrane to be used on the project. Membrane manufacturer shall have a minimum of 15 years FM approval, and 15 years manufacturing experience with the roofing membrane specified for this project.
- E. All roofing and roof accessories shall be installed in compliance with manufacturer's current specifications and details.
- F. All materials used on the project shall be asbestos free.

2.02 ROOFING MEMBRANE

- A. The white 60 mil polyester reinforced fleece backed PVC membrane shall have the following minimum physical properties, or approved equal.

<u>Property</u>	<u>Test Procedure</u>	<u>Physical Properties</u>
Color		White
Thickness	ASTM D 751	60 mil Nominal
Roll Size		76" x 90'
Breaking Strength	ASTM D 751	325 x 324 lbf
Tear Strength	ASTM D 751	89 x 109 lbf
Seam Strength	ASTM D 751	295 lbf
Elongation	ASTM D 751	50% x 42%
Heat Aging	ASTM D 3045	>90 %
Low Temp Bend	ASTM D 2136	Pass (-40° F)
Static Puncture Resistance	ASTM D 5602	Pass
Dynamic Puncture Resistance	ASTM D 5635	Pass
Permeance	ASTM E 96	0.003 Perms
Dimensional Stability	ASTM D 1204	0.3%
Weight Change after Water Immersion		ASTM D 570 1.20%
Accelerated Weathering	ASTM G 155	Pass
Fungi Resistance	ASTM G 21	No growth
Solar Reflectivity	ASTM C 1549	0.82 (white)
Emissivity	ASTM C 1371	0.91 (white)
Solar Reflectance Index (SRI)	ASTM E 1980	109 (white)
Underwriters Laboratory	Class A	Approved
Factory Mutual	Class 1-90	Exceeds
Polyvinyl Chloride Membrane	ASTM D 4434	Exceeds

2.03 FLASHING MEMBRANE

- A. The flashing membrane shall be a white polyester reinforced flexible sheet, or approved equal.

<u>Property</u>	<u>Test Procedure</u>	<u>Physical Properties</u>
Color		White
Thickness	ASTM D 751	60 mil Nominal
Breaking Strength	ASTM D 751	412 x 538 lbf
Tearing Strength	ASTM D 751	111 x 110 lbf
Elongation	ASTM D 751	29% x 31%
Heat Aging	ASTM D 3045	≥90% of Original
Low Temperature Bend	ASTM D 2136	Pass @ -40°C
Seam Strength	ASTM D 751	100 %
Accel. Weathering	ASTM D 2565	10M hrs. (No Change)
Linear Dimensional Change	ASTM D 1204	0.5% maximum
Wt. Change after Immersion	ASTM D 570	0.41% maximum
Static Puncture Resistance	ASTM D 5602	Pass @ 33 lbs
Dynamic Puncture Resistance	ASTM D 5635	Pass @ 20 J
Underwriters Laboratory		Class A
Factory Mutual		Class 1-90
Solar Reflectivity	ASTM E 903	0.811
Solar Emissivity	ASTM E 903	0.919
Solar Reflectance Index (SRI)	ASTM E1980	109

2.04 BITUMEN

- A. Shall be ASTM D 312 Type III steep asphalt.

<u>Slope</u>	<u>Interply</u>	<u>Top Pour</u>	<u>Backnail</u>	<u>Strap</u>
0 - ½" per 12"	Type III	Type III	No	No
½" - 2" per 12"	Type III	Type III	Yes	Strap if Possible
2" - 3" per 12"	Type III	Type III	Yes	Yes

2.05 CAULKS

- A. Sealant for use at coping joints, reglet joints, etc., shall be a one-component urethane non-sag, gun grade sealant designed for use in active exterior joints, and shall meet or exceed Federal Specification No. 1 TT-S-00230C, Type II, Class A, ASTM C 920. Where joint surfaces are contained or are contaminated with bituminous materials, provide manufacturer's modified-type sealant (modified with coal-tar or asphalt as required), or approved equal.
- B. To seal the leading edge of the membrane, to bond membrane at terminations with metal, and for open seam repair, sealant shall be a thermosetting, solvent free, non-slump, self-fixturing, multipurpose structural sealant which shall meet the following physical and performance properties, M-1 as manufactured by Chem Link Inc., or approved equal.

Properties

Specific Gravity	1.62 (13.5 lbs./gallon)
Viscosity	800,000 cps Brookfield RTV, TF spindle, 4 rpm 70° F.
Shear Strength (ASTM D-1002)	300 psi+ (7 day ambient cure)
Elongation @ break (ASTM D-412)	300% (7 day ambient cure)
Hardness Shore A (ASTM C-661)	50 – 55 (14 day ambient cure)
Tack free time (ASTM C-679)	35 minutes
Low temperature flex	Minus 20° F: PASS
Slump (sag) (ASTM C-639)	Zero slump
Shrinkage (ASTM D-2453)	No measurable shrinkage (14 day cure)
Service temperature	-40° F to 200° F

2.06 INSULATION

- A. Refer to Specification Section 07 2216, Roof and Deck Insulation for further information.

2.07 FASTENERS AND PLATES

- A. General: All fasteners and plates for the installation of insulation, and for the installation of the membrane, shall be supplied and warranted by the membrane manufacturer for the specific application.
- B. Membrane attachment toggles, if required, shall be provided and warranted by the membrane manufacturer.
- C. All fasteners and plates shall be FM Global approved corrosion resistant screws or anchors supplied and warranted by the membrane manufacturer. Fasteners shall be of a type and length recommended by the manufacturer for fastening the insulation and/or protection layer (through the existing roof in reroofing) to the structural roof deck.

2.08 FASTENERS

- A. Fasteners and fastening plates or bars shall be listed in the FM Global Approval Guide, and be as recommended by the fastener manufacturer for the specific application.
- B. Fastener for Brick: Shall be one-fourth inch by two inches (1/4" x 2"), zinc with plated steel or stainless steel nail, one piece unit, flat head, or approved equal.
- C. Fastener for Steel Deck: Shall be a #14 fastener, fluorocarbon coated, with CR-10 coating. A minimum .200 diameter shank and .250 diameter thread. To be used with round pressure plates or bar, and having a fluorocarbon CR-10 coating, when subjected to thirty (30) Kesternich cycles (DIN 50018) shows less than ten percent (10%) red rust which surpasses FM Global Approval Standard 4470, or approved equal. Fasteners, plates, and/or bars shall be listed in the FM Global Approval Guide.

2.10 BONDING ADHESIVE FOR FLASHING

- A. Description: Adhesive is a bonding cement of synthetic rubber for fully adhering membranes to various substrates, produced by Ashland Chemical, or approved equal.

Typical Liquid Properties (Room Temperature)

Color	Amber/Yellow
Base Product	Neoprene
Solids	25%
Specific Gravity	.87
Pounds/Gallon	7.25
Viscosity (CPS)	2500
Solvents	Ketone, Toluene, Aliphatic Hydrocarbon, Zylene
Estimated Coverage	
2 Sided Application	55/70 sq. ft. (2/2.5 mils dry)
DOT Label Required	Flammable Liquid
Code - 584661	

- B. Handling: Contains ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

2.11 ASPHALT ROOF PRIMER

- A. Quick-dry asphalt-based primer for priming of asphalt roof surfaces, or approved equal.

Applicable Federal Specification	SS-A-701B
ASTM	D 41
Flash Point	105° F
Viscosity at 80° F (ASTM D 217)	50-60 K.U.
Weight per gallon	7.4 pounds
Drying time (to touch)	Min. 4 hours

2.12 CANT STRIP

- A. Shall be wood fiber where used for non-structural purposes. Shall be treated solid wood where used for structural purposes meeting NRCA, FM Global and Underwriters Laboratory guidelines. If solid wood cant is used where insulation exists, cant is to be toe nailed into treated solid wood nailer the same height as insulation.

2.13 WOOD

- A. All nailers, cants and wooden curbs shall be fire rated, treated lumber as required by NRCA, FM Global and Underwriters Laboratory guidelines.

2.14 SEAM SEALER

- A. Special caulk compatible with the Polyvinyl Chloride membrane to seal exposed cut edges.

2.15 TRIM STRIP

- A. The trim strip shall have the following minimum properties, or approved equal.
1. Six inch (6") wide non-reinforced 60 mil Polyvinyl Chloride used for capping butted ends of rolls.
 2. The trim strip is seamed with the use of hot-air welding.

2.16 CORNERS

- A. Inside and outside corners shall be supplied by the membrane manufacturer and shall be of the same base material as the roof membrane.

2.17 PIPE BANDS

- A. Stainless steel bands with self-locking heads.
- B. Tighten with hand tool for tension control and flush cut off.

2.18 PRE-MOLDED BOOTS

- A. Non-reinforced Polyvinyl Chloride tapered molds for various pipes, heat welded to field membrane and sealed at top with stainless steel pipe bands and seam sealer.

2.19 PITCH PAN SEALANT

- A. Pitch pan sealant shall be coal-tar urethane which shall meet the following physical and performance properties, or approved equal.

<u>Test</u>	<u>Typical Value</u>	<u>Test Method</u>
Uniformity	Pass	ASTM D 4479
Elongation	450%	ASTM D 2370
Solids by Weight	98.5%	ASTM D 4479
Density	10.6 lbs/gal.	ASTM D 1475
Viscosity	20,000 – 25,000 cps	ASTM D 2196
Flash Point	250°F minimum	ASTM D 93
VOC	25 g/l	ASTM D 6511
Asbestos Content	0%	EPA 600/R-93/116

2.20 PIPESTANDS (6" OR SMALLER - LESS THAN 9" OFF ROOF SURFACE)

- A. Black, polycarbonate construction with stainless steel roller pin assembly suitable for gas lines and conduit set in finished roof assemblies, Model No. 24R, sized accordingly, as manufactured by Miro Industries, Inc.

2.21 PIPE HANGERS (6" AND LARGER – 9" TO 12" OFF ROOF SURFACE)

- A. Shall be pre-assembled portable pipe hangers constructed of high density polypropylene plastic and UV inhibitors, sized according to outside pipe dimension, as manufactured by Portable Pipe Hangers, Houston, TX, 800.797.6585.

2.22 LEAD JACKS

- A. Shall be four pound (4#) lead, and of dimensions required to completely cover existing plumbing stack.

2.23 LEAD FLASHING DRAINS

- A. Shall be four pound (4#) lead, minimum thirty-six inches by thirty-six inches (36" x 36"), used for flashing of internal drains.

2.24 WALKWAY PAD

- A. The walkway pad shall have the following minimum physical properties, and be applied with edges heat or solvent welded, or approved equal.

<u>Property</u>	<u>Test Procedure</u>	<u>Physical Properties</u>
Color		Gray
Size		36" wide x 60' long
Thickness	ASTM D 638	.080" nominal
Reinforcement		1000 Denier Polyester
Tear Strength	ASTM D 751	210 X 200 lbf
Puncture Resistance		96 lbs
Cold Resistance	ASTM D 1043	-40° C
Shore A Durometer		85
Hydrostatic Resistance		400 psi
Dimensional Stability	ASTM D 1240	≤ 1%
Ultraviolet Stability		12,000 hrs. Excellent

2.25 TERMINATION/PRESSURE BARS

- A. Aluminum strip shall be extruded channel bar with a mill finish, width one inch (1"), thickness 0.100" ± .008", leg height one-fourth inch (1/4") top and bottom, leg angle ninety degrees (90°), for perimeter and curb anchorage, having predrilled holes six inches (6") on center, as manufactured by Olympic Fasteners, or approved equal.

2.26 ROOF PLAQUE

- A. Contractor shall provide a sixteen inch by sixteen inch (16" x 16") metal plaque which shall contain the information listed below. Fasteners to attach plaque shall be stainless steel, short enough to not penetrate outer surface of hatch or door where mounted. Location of plaque to be determined by Architect.
1. Architect name, phone number
 2. School district phone number
 3. School district emergency phone number.
 4. Contractor name, phone number
 5. Subcontractor name, phone number
 6. Roof Consultant, name, phone number
 7. Roof system, warranty information.
 8. Roof Manufacturer, phone number

2.30 VERTICAL WALL SHIMMING MATERIAL

- A. Shall be one of the following unless otherwise accepted by Owner's representative: OSB, exterior grade plywood, gypsum core board or concrete core board. Proper selection of material is required to achieve FM Global and UL guidelines.

2.31 SELF-ADHERING UNDERLAYMENT FOR TEMPORARY WATERPROOFING

- A. A premium heavyweight, minimum 60 mil, self-adhering underlayment, to use as a temporary waterproofing barrier.

2.32 OVERNIGHT SEAL

- A. Hot applied asphalt bitumen shall be provided for the purpose of night sealing the roof system.

2.33 DELIVERY AND STORAGE

- A. All materials shall be delivered with appropriate carton and can labels indicating appropriate warnings, storage conditions, lot numbers, and usage instructions. Materials damaged in shipping or storage shall not be used.

2.34 PRECAUTIONS

- A. Some of the indicated materials are extremely flammable and/or toxic. Use precautions indicated on can and carton labels.

2.35 MISCELLANEOUS MATERIALS

- A. Other materials shall be as specified or of the best grade for the proposed use as recommended by the manufacturer.

PART 3 - EXECUTION**3.01 REFERENCE**

- A. The manufacturer's Technical Specifications shall be considered a part of this specification and should be referred to for more specific application procedures and recommendations.
- B. Application of materials shall be in strict accordance with the manufacturer's recommendations except where more stringent requirements are shown or specified. In the instance of a conflict between these specifications and those of the manufacturer, the more stringent specifications shall take precedence.
- C. General Installation:

1. Protect adjacent areas with tarpaulin or other durable materials.
2. Contractor shall prevent overspray, and be responsible for parking lot areas and/or adjoining areas not part of this contract.
3. Contractor shall be responsible for sealing, as required, all openings that may allow bitumen migration or drippage, i.e. pitch dams, envelopes, and filler strips.
4. Prepare surfaces according to manufacturer's or applicator's published instructions. All metal that is to receive bitumen, or come in contact with bitumen or adhesive, shall be first primed with appropriate primer. Any prefinished sheet steel that is to receive bitumen, or come in contact with bitumen or adhesive, shall be scored, scuffed or abraded prior to receiving primer.
5. Use cleaning materials or primers necessary to render an acceptable surface/substrate.
6. All surfaces/substrates shall be clean and dry prior to application of materials.
7. Prior to application of felts and membrane, all foreign matter, gravel, etc., shall be removed from the insulation and/or substrate. Gravel or debris between the insulation/substrate and plies is not acceptable.
8. Bitumen kettle shall have a visible thermometer and thermostatic control or some other means to provide positive monitoring of the bitumen temperature when it is heated in accordance with manufacturer's instructions.
9. Ambient temperature shall be 45° F and rising.
10. The maximum heating temperature of Type III asphalt shall be 500° F.
11. The temperature of Type III asphalt shall be approximately 430° F ± at the point of application or as recommended by the membrane manufacturer.
12. Maintain kettle and/or tanker temperature at least 25° F below the actual flash point of the bituminous materials used.
13. Never heat the bituminous materials at high temperatures for prolonged periods of time.
14. Do not allow bituminous materials to stand in luggers for long periods.
15. Circulate bituminous materials.
16. Insulate hot transport lines if required.
17. Wrinkles, buckles, kinks, and fishmouths are not acceptable when laying membrane.
18. Where deteriorated base flashing is removed, primed cant strips shall be installed at the intersection of the deck and the vertical surfaces. All flashings shall be mechanically top-fastened with a termination bar a minimum of six inches (6") on center at the top leading edge, and be a minimum of eight inches (8") in height from finished membrane.
19. Provide a water test of each roof section prior to substantial completion. The test should simulate rainfall of one inch (1") per hour minimum.
20. On slopes greater than one inch (1") in twelve inches (12"), refer to NRCA and/or manufacturer's guidelines for backnailing procedures and follow the more stringent guidelines for all specified materials.

3.02 SUBSTRATE PREPARATION

- A. Substrate shall be smooth and free of debris, sharp edges, and other surface irregularities prior to work starting. Substrate repair shall be performed as required to minimum of NRCA standards.

3.03 CATEGORY II (NON-FRIABLE) ASBESTOS CONTAINING MATERIALS (ACM) REMOVAL

- A. Owner and Contractor agree to exonerate, indemnify, defend, and hold harmless the roofing material manufacturer from and against all claims, demands, lawsuits, damages, expenses and losses incurred by Contractor's removal of asbestos-containing materials from Owner's building

and work site. Contractor must conduct its operations according to applicable requirements including but not limited to those established by:

1. Occupation Safety and Health Administration (OSHA).
 2. Environmental Protection Agency (EPA).
 3. Department of Transportation (DOT).
 4. State or Local Air Pollution Control Authorities/Agencies.
 5. State or Local Solid Waste or Hazardous Waste Authorities/Agencies.
 6. State or Local Health Department(s).
 7. State or Local Building Code Authorities.
 8. Other federal, state or local agencies or authorities.
- B. Contractor or Owner shall perform appropriate inspections, surveys and file timely notifications to proper authorities prior to starting roof renovation or demolition activities. Inspectors, project planners, project managers, contractors and workers involved in the roof project shall have appropriate training, licenses and registrations. Contractor and Owner shall be responsible for determining and implementing regulatory compliance activities, including but not limited to work practices, engineering controls, personal protection, air monitoring, testing, hazard communication, material handling, record retention, and arranging for waste disposal/handling.
- C. Contractor must file a Uniform Hazardous Waste Manifest from proper landfill site for each load of asbestos containing material removed. Copies must be sent to Owner and material manufacturer/specifier. Transportation of waste shall be in accordance with applicable Department of Transportation (DOT) requirements.

3.04 COVER BOARD

- A. Manufacturer's Instructions: In regard to attachment, the manufacturer's instructions or specifications shall determine the suitability for an application.
- B. Refer to Specification Section 07 2216, Roof and Deck Insulation for further information.

3.05 INSULATION

- A. Refer to Specification Section 07 2216, Roof and Deck Insulation for further information.

3.06 NAILERS

- A. Wooden nailers shall be installed at gravel stops, drip edges, and expansion joints on outside perimeter of building according to NRCA, Underwriters Laboratory and IBC guidelines.
- B. All Construction: Nailers shall be the same height as the new recovery board being installed where required. Nailers shall be raised if necessary by anchoring an additional nailer of appropriate height to the existing nailer if the existing nailer is not to be replaced. Nailers shall be anchored to resist a pull-out force of one hundred seventy-five pounds (175#) per foot. Fasteners shall be no less than two (2) per nailer, and be spaced at three feet (3') on center maximum. Expansion joint nailers shall extend upward a minimum of eight inches (8") above finish roof height.

3.07 WOOD CANTS

- A. Toe of cant shall be level with the surface to receive new roof membrane and in all cases anchored according to NRCA, Underwriters Laboratory and IBC guidelines.

3.08 HOT APPLIED FLEECE BACKED MEMBRANE

- A. Fully Adhered Application: Fully adhere membrane to acceptable substrate with hot asphalt applied at the rate specified by the manufacturer.

1. The roof surface must be clean, dry and free of foreign material.
 2. Position sheets as indicated on approved shop drawings.
 3. Fold one end of the sheet on top of itself until both ends meet. Apply hot asphalt to the prepared roof surface. The sheet can then be pulled and laid into the bonding material using care not to create any wrinkles.
 4. Carefully push into place from fold line to overlap, avoiding wrinkles and air pockets. Roll or broom membrane flat.
 5. Repeat procedure for other sheet half.
 6. Lap seams shall be done by lapping the two inch (2") selvedge edge over the non-selvedge edge of the previous roll. The selvedge edge seam shall be made with the heat gun method.
 7. Roll ends are butted together and capped with a six inch (6") wide trim strip. The trim strip is then seamed with the heat gun.
 8. T-Joint covers are required over all t joints on installations of Polyvinyl Chloride roofing membranes equal too or greater than 60 mils in thickness. Center T-Joint cover over the t-joint and completely hot air weld the cover to the field membrane.
- B. Lap Seaming Procedure: Overlap membrane for attachment method specified and hot-air welded with manufacturer's approved equipment.
1. All surfaces to be weld shall be clean, dry and free of foreign material.
 2. All seams must then be checked with a needle probe and any voids repaired with the heat gun.

3.10 FLASHING

- B. Flash all penetrations, metal edge systems, walls, curbs, expansion joints, drains as shown on details and approved shop drawings with white reinforced flashing membrane.
1. Use prefabricated flashing accessories or components such as sealant pockets, premolded vent/pipe flashing.
 2. Mechanically fasten flashing at terminations according to approved details.
 3. Fastening membrane flashing through metal counterflashing is not acceptable.
- C. Any lumber or shimming required for attachment or to make material flashing flush or level with offsets and/or transitions shall be incorporated in the flashing specifications.

3.11 BASE FLASHING (APPROXIMATELY 8" IN HEIGHT MINIMUM)

- A. Base flashings shall be installed using the flashing membrane, with length of run not to exceed twenty linear feet (20').
- B. Wooden nailers or curbs shall be installed at all edges and openings in the roof, mechanically fastened to the deck.
- C. Cant strips shall be installed at the intersection of the deck and all vertical surfaces.
- D. The roofing field membrane shall extend up over and two inches (2") above the top of cant strips at all vertical intersections or out to the roof's edge.
- E. All existing substrates receiving flashing membrane shall be clean and primed with primer, prior to application as required.
- F. All flashings shall be mechanically fastened with a termination bar a maximum of six inches (6") on center, be a maximum of eight inches (8") above finished roof height, extend a minimum of four inches (4") onto the field of horizontal roof membrane, and not exceed twenty linear feet (20') of run in length.
- G. After proper termination of the base flashing at a minimum eight inch (8") height (or maximum eighteen inch (18") height), a saw cut reglet with counterflashing shall be installed according to NRCA and SMACNA guidelines.
- H. All vertical flashing lap seams of the flashing membrane shall be hot-air welded.
- I. All flashing membrane shall be adhered with flashing bonding adhesive to the vertical substrate and hot-air welded to the field of roof membrane; hot-air weld vertical laps.

- J. Flashing laps shall be minimum two inch (2") width, no maximum. Hot-air weld of flashing lap shall be minimum two inch (2") width, no maximum.
- K. Hot-Air Welding of Flashing Laps:
 - 1. When using a hand-held hot-air welder, the seams should be pressed together using a hand-held roller. The speed and temperature settings of the welding equipment can be affected by the weather conditions at the site of application, therefore, these parameters should be set by trial and error using two (2) pieces of the flashing membrane. Minimum width of hot-air weld two inches (2"), no maximum.
 - 2. Lay the laps together and apply pressure to the welded seam to ensure full adhesion.
 - 3. Allow the seams to set fully, and probe the entire length for voids. Reseam voids immediately with a hot-air gun and roller.
- L. All hot-air welded seams/laps shall be tested daily with a probe for integrity, no variance.

3.12 VERTICAL WALL FLASHING (FOR USE APPROXIMATELY 8-18" ABOVE THE FINISHED ROOF LINE AND EXTENDING UPWARD)

- D. Flashing membrane shall be installed on the vertical beginning a minimum of eight inches (8") above the finished roof line (where the base flashing is terminated), with length of run not to exceed twenty feet (20'). Flashing shall be installed in strict accordance with the manufacturer's recommendations.
- E. The termination bar used to terminate the minimum eight inch (8") high base flashing shall be used to terminate the lower edge of the vertical flashing. This will cause the termination bar to be buried at the termination point. Care should be taken to ensure the top edge of the base flashing and bottom edge of the vertical flashing are both secured.
- F. All existing substrates receiving flashing membrane shall be clean and primed with asphalt primer, prior to application.
- G. All substrates receiving welded-seam flashing membrane shall be clean and primed with primer, prior to application when applicable.
- H. The vertical wall flashing membrane shall be set in flashing bonding adhesive according to manufacturer's guidelines.
- I. All vertical flashing lap seams of the flashing membrane shall be hot-air welded.
- J. Flashing laps shall be minimum two inch (2") width, no maximum. Hot-air weld of flashing lap shall be minimum two inch (2") width, no maximum.
- K. Immediately following the laying of the flashing membrane, it shall be pressed or rolled in the width direction of the membrane. This will prevent excessive entrapment of air beneath the membrane. The pressing or rolling shall be in the width direction and with the laps so as not to buck the laps.
- L. Any flashing extending further than eighteen inches (18") up onto a vertical surface shall be installed using the strapped method and must be fastened with a termination bar or installed up and over the parapet wall and fastened to the nailer on the outside of the wall.
- M. The flashing membrane shall be run up the wall in sheet widths, run under the coping cap and be terminated on the outside of the wall six inches (6") on center; then the coping cap shall be reset. All side laps are to be hot-air welded.
- N. Hot-air Welding Laps:
 - 1. When using a hand-held hot-air welder, the seams should be pressed together using a hand-held roller. The speed and temperature settings of the welding equipment can be affected by the weather conditions at the site of application, therefore, these parameters should be set by the contractor by using two (2) pieces of flashing membrane. Minimum width of hot-air weld shall be two inches (2").
 - 2. Lay the laps together and apply pressure to the welded seam to ensure full adhesion.
 - 3. Allow the seams to set fully, and probe the entire length for voids. Reseam voids immediately with a hot-air gun and roller.
- O. All hot-air welded seams/laps shall be tested daily with a probe for integrity, no variance.

- P. Any lumber or shimming required for attachment or to make material flashing flush or level with offsets and/or transitions shall be incorporated in the flashing specifications.

3.13 PERIMETER FASTENING

- A. Wood nailers are required for perimeter gravel stops or drip edges. Field membrane and all plies shall be mechanically fastened to nailer on twelve inch (12") centers maximum.

3.14 EDGING FLASHINGS

- A. An NRCA-approved gravel stop/fascia system shall be installed in strict accordance with published instructions to meet ES-1.

3.15 ROOF DRAINS

- A. Inspect and test drain and drain lines prior to start of work in contact area. Open if blocked or clogged and repair/replace all broken, missing drain components and lines as required. Verify in writing that all drains and lines are free flowing and watertight prior to substantial completion. Comply with local plumbing codes.

3.17 CLEANING

- A. Clean exposed surfaces of excess cement, adhesive, sealants, mortar and paint associated with the new work.
- B. Clean work area of excess roofing materials and installation debris daily.
- C. Repair or replace defaced or disfigured finishes caused by the work.

3.18 MEMBRANE CLEANING

- A. After all membrane has been installed, it shall be cleaned with a cleaning agent compatible with the membrane to return the membrane to like new appearance.

3.19 PROTECTION

- A. Protect all building surfaces against damage from roofing work.
- B. Where traffic must continue over finished, installed roofing system, protect membrane, underlayment accessories and finishes from damage.

3.20 MEMBRANE PROTECTION

- A. Where equipment pads, wood sleepers, or walkway slabs are to be installed over the roofing membrane, an additional layer of the roofing membrane shall be installed between the roofing membrane and the pad, sleeper, or slab. Due caution shall be exercised to prevent roofing membrane damage during placement. Where required, membrane shall be welded to field membrane to prevent slippage.

3.21 PIPING/CONDUIT

- A. Piping/conduit shall be raised to NRCA recommended heights, and new supports furnished. Permanent supports shall be installed upon pads approved by membrane manufacturer. Coordinate work with Owner's representative.
- B. All gas lines, piping, and conduits shall be coated with industrial grade yellow paint.

3.22 PIPE/EQUIPMENT SUPPORTS

- A. Designated pipe/equipment supports shall be removed and replaced with new treated four inch by four inch (4" x 4") wood blocking. Pipe supports shall be placed approximately ten feet (10') on center. New blocks shall be set on a double layer of membrane, and attached to the pipe with suitable strapping. Double layer of membrane shall be adhered to the roof surface.
- B. Gas lines three inches (3") and over must be supported on wood block with pipe roll stands.

3.23 ROOF PLAQUE

- A. Metal plaque shall be installed on the underside of each roof hatch or on the inside of the maintenance room door. Location of plaque to be determined by Architect.
- B. Plaque shall be fastened with stainless steel screws that are short enough to not penetrate outer surface of hatch or door where mounted.

3.24 OVERNIGHT SEAL

- A. Shall be performed according to accepted roofing practice as outlined in the NRCA Roofing Manual, SPRI and membrane manufacturer's recommended procedure.
- B. The roofing membrane shall be sealed to the roof deck or existing roof at the end of the day or at the onset of inclement weather to prevent water from flowing into the completed roofing system. Temporary seals shall be removed upon resumption of work.

END OF SECTION

SECTION 07 9200
JOINT SEALANTS**PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Nonsag gunnable joint sealants.
- B. Self-leveling pourable joint sealants.
- C. Joint backings and accessories.

1.02 RELATED REQUIREMENTS

- A. Section 01 4000 – Quality Requirements
- B. Section 04 2000 – Natural Stone
- C. Section 07 6200 – Sheet Metal Flashing and Trim

1.03 REFERENCE STANDARDS

- A. ASTM C661 - Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer; 2015.
- B. ASTM C834 - Standard Specification for Latex Sealants; 2017.
- C. ASTM C881/C881M - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete; 2015.
- D. ASTM C919 - Standard Practice for Use of Sealants in Acoustical Applications; 2012 (Reapproved 2017).
- E. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
- F. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016.
- G. ASTM C1248 - Standard Test Method for Staining of Porous Substrate by Joint Sealants; 2008 (Reapproved 2012).
- H. ASTM C1311 - Standard Specification for Solvent Release Sealants; 2014.
- I. ASTM C1330 - Standard Specification for Cylindrical Sealant Backing for Use with Cold Liquid-Applied Sealants; 2018.
- J. ASTM C1521 - Standard Practice for Evaluating Adhesion of Installed Weatherproofing Sealant Joints; 2013.
- K. ASTM D2240 - Standard Test Method for Rubber Property--Durometer Hardness; 2015.
- L. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension; 2016.
- M. ASTM D695 - Standard Test Method for Compressive Properties of Rigid Plastics; 2015.

1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data for Sealants: Submit manufacturer's technical data sheets for each product to be used, that includes the following.
 - 1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
 - 2. List of backing materials approved for use with the specific product.
 - 3. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
 - 4. Substrates the product should not be used on.
 - 5. Substrates for which use of primer is required.
- C. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- D. Color Cards for Selection: Where sealant color is not specified, submit manufacturer's color cards showing standard colors available for selection.
- E. Samples for Verification: Where custom sealant color is specified, obtain directions from Architect and submit at least two physical samples for verification of color of each required sealant.
- F. Submit Material Safety Data Sheets under provisions of Section 01 7800 – Closeout Submittals for the following items:
 - 1. All mastics, glues, and adhesives
 - 2. Sealant (interior use only)

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years experience.
- B. Installer Qualifications: Company specializing in performing the work of this section and with at least three years of experience.
- C. Field Adhesion Tests of Joints: Test for adhesion using most appropriate method in accordance with ASTM C1521, or other applicable method as recommended by manufacturer.
 - 1. All joint sealants shall be field tested for proper adhesion to the joint substrates prior to installation. Do not proceed with the work until job site tests have been approved by the Architect.
 - 2. Locate and provide test joints for each type of joint sealant, and substrate as directed by the Architect.
 - 3. Acceptable test joints will be used as the standard for all joint sealant work on the project.
 - a. Sealants which fail to adhere to the substrates shall be removed and replaced at no extra cost to the Owner.

1.06 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective work within a five year period after Date of Substantial Completion.
- C. Warranty: Include coverage for installed sealants and accessories that fail to achieve watertight seal, exhibit loss of adhesion or cohesion, or do not cure.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Non-Sag Sealants: Permits application in joints on vertical surfaces without sagging or slumping.
 - 1. Hilti, Inc: www.us.hilti.com/#sle.
 - 2. Master Builders Solutions by BASF: www.master-builders-solutions.basf.us/en-us/#sle.
 - 3. Momentive Performance Materials, Inc (formerly GE Silicones): www.momentive.com/#sle.
 - 4. Pecora Corporation: www.pecora.com/#sle.
 - 5. Sika Corporation: www.usa-sika.com/#sle.
 - 6. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
 - 7. W.R. Meadows, Inc: www.wrmeadows.com/#sle.
 - 8. Substitutions: See Section 01 6000 - Product Requirements.
- B. Self-Leveling Sealants: Pourable or self-leveling sealant that has sufficient flow to form a smooth, level surface when applied in a horizontal joint.
 - 1. Master Builders Solutions by BASF: www.master-builders-solutions.basf.us/en-us/#sle.
 - 2. Pecora Corporation: www.pecora.com/#sle.
 - 3. Sika Corporation: www.usa-sika.com/#sle.
 - 4. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com/#sle.
 - 5. W.R. Meadows, Inc: www.wrmeadows.com/#sle.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

6. Substitutions: See Section 01 6000 - Product Requirements.

2.02 JOINT SEALANT APPLICATIONS

A. Scope:

1. Exterior Joints: Seal open joints, whether or not the joint is indicated on drawings, unless specifically indicated not to be sealed. Exterior joints to be sealed include, but are not limited to, the following items.
 - a. Wall expansion and control joints.
 - b. Joints between door, window, and other frames and adjacent construction.
 - c. Joints between different exposed materials.
 - d. Openings below ledge angles in masonry.
 - e. Other joints indicated below.
2. Interior Joints: Do not seal interior joints unless specifically indicated to be sealed. Interior joints to be sealed include, but are not limited to, the following items.
 - a. Joints between door, window, and other frames and adjacent construction.
 - b. In sound-rated wall and ceiling assemblies, gaps at electrical outlets, wiring devices, piping, and other openings; between wall/ceiling and other construction; and other flanking sound paths.
 - 1) Exception: Such gaps and openings in gypsum board and plaster finished stud walls and suspended ceilings.
 - 2) Exception: Through-penetrations in sound-rated assemblies that are also fire-rated assemblies.
 - c. Other joints indicated below.
3. Do not seal the following types of joints.
 - a. Intentional weepholes in masonry.
 - b. Joints indicated to be treated with manufactured expansion joint cover or some other type of sealing device.
 - c. Joints where sealant is specified to be provided by manufacturer of product to be sealed.
 - d. Joints where installation of sealant is specified in another section.
 - e. Joints between suspended panel ceilings/grid and walls.

B. Exterior Joints: Use non-sag polyurethane sealant, unless otherwise indicated.

1. Lap Joints in Sheet Metal Fabrications: Butyl rubber, non-curing.
2. Lap Joints between Manufactured Metal Panels: Butyl rubber, non-curing.
3. Control and Expansion Joints in Concrete Paving: Self-leveling polyurethane "traffic-grade" sealant.

C. Interior Joints: Use non-sag polyurethane sealant, unless otherwise indicated.

1. Wall and Ceiling Joints in Non-Wet Areas: Acrylic emulsion latex sealant.
2. Wall and Ceiling Joints in Wet Areas: Non-sag polyurethane sealant for continuous liquid immersion.
3. Floor Joints in Wet Areas: Non-sag polyurethane "non-traffic-grade" sealant suitable for continuous liquid immersion.
4. Wall, Ceiling, and Floor Joints Where Tamper-Resistance is Required: Non-sag tamper-resistant polyurethane sealant.
5. Joints between Fixtures in Wet Areas and Floors, Walls, and Ceilings: Mildew-resistant silicone sealant; white.
6. In Sound-Rated Assemblies: Acrylic emulsion latex sealant.
7. Narrow Control Joints in Interior Concrete Slabs: Self-leveling polyurethane sealant.
8. Other Floor Joints: Self-leveling polyurethane "traffic-grade" sealant.

D. Interior Wet Areas: Bathrooms, restrooms, kitchens, food service areas, and food processing areas; fixtures in wet areas include plumbing fixtures, food service equipment, countertops, cabinets, and other similar items.

E. Sound-Rated Assemblies: Walls and ceilings identified as "STC-rated", "sound-rated", or

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

"acoustical". Areas Where Tamper-Resistance is Required: As indicated on drawings.

2.03 NONSAG JOINT SEALANTS

- A. Non-Staining Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic.
 - 1. Movement Capability: Plus and minus 50 percent, minimum.
 - 2. Non-Staining To Porous Stone: Non-staining to light-colored natural stone when tested in accordance with ASTM C1248.
 - 3. Dirt Pick-Up: Reduced dirt pick-up compared to other silicone sealants.
 - 4. Hardness Range: 15 to 35, Shore A, when tested in accordance with ASTM C661.
 - 5. Color: Match adjacent finished surfaces.
 - 6. Service Temperature Range: Minus 20 to 180 degrees F.
- B. Silicone Sealant: ASTM C920, Grade NS, Use T; single-component, explicitly approved by manufacturer for traffic exposure when recessed below traffic surface; not expected to withstand continuous water immersion.
 - 1. Movement Capability: Plus 100 percent and minus 50 percent, minimum.
 - 2. Color: Dark Gray.
- C. Silicone Sealant: ASTM C920, Grade NS, Uses M and A; not expected to withstand continuous water immersion or traffic.
 - 1. Movement Capability: Plus and minus 50 percent, minimum.
 - 2. Hardness Range: 15 to 35, Shore A, when tested in accordance with ASTM C661.
 - 3. Color: Match adjacent finished surfaces.
 - 4. Service Temperature Range: Minus 65 to 180 degrees F.
- D. Mildew-Resistant Silicone Sealant: ASTM C920, Grade NS, Uses M and A; single component, mildew resistant; not expected to withstand continuous water immersion or traffic.
 - 1. Color: White.
- E. Tamper-Resistant, Silyl-Terminated Polyurethane (STPU) Sealant: ASTM C920, Grade NS, Uses M and A; single component; not expected to withstand continuous water immersion or traffic.
 - 1. Movement Capability: Plus and minus 12-1/2 percent, minimum
 - 2. Hardness Range: 50 to 60, Shore A, when tested in accordance with ASTM C661.
 - 3. Color: Match adjacent finished surfaces.
 - 4. Service Temperature Range: Minus 40 to 180 degrees F.
- F. Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; not expected to withstand continuous water immersion or traffic.
 - 1. Movement Capability: Plus and minus 50 percent, minimum.
 - 2. Hardness Range: 20 to 35, Shore A, when tested in accordance with ASTM C661.
 - 3. Color: Match adjacent finished surfaces.
 - 4. Service Temperature Range: Minus 40 to 180 degrees F.
- G. Polyurethane Sealant for Continuous Water Immersion: ASTM C920, Grade NS, Uses M and A; single or multi-component; explicitly approved by manufacturer for continuous water immersion; suitable for traffic exposure when recessed below traffic surface .
 - 1. Movement Capability: Plus and minus 25 percent, minimum.
 - 2. Hardness Range: 20 to 35, Shore A, when tested in accordance with ASTM C661.
 - 3. Color: Match adjacent finished surfaces.
 - 4. Service Temperature Range: Minus 40 to 180 degrees F.
- H. Non-Sag "Traffic-Grade" Polyurethane Sealant: ASTM C920, Grade NS, Uses M and A; single or multi-component; explicitly approved by manufacturer for continuous water immersion and traffic without the necessity to recess sealant below traffic surface.
 - 1. Movement Capability: Plus and minus 25 percent, minimum.
 - 2. Hardness Range: 40 to 50, Shore A, when tested in accordance with ASTM C661.
 - 3. Color: As scheduled.

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

4. Service Temperature Range: Minus 40 to 180 degrees F.
- I. Tamper-Resistant Polyurethane Sealant: ASTM C920, Grade NS, Uses M, G, and A; single or multi-component; not expected to withstand continuous water immersion or traffic.
 1. Movement Capability: Plus and minus 12-1/2 percent, minimum.
 2. Hardness Range: 50 to 60, Shore A, when tested in accordance with ASTM C661.
 3. Color: Match adjacent finished surfaces.
 4. Service Temperature Range: Minus 40 to 180 degrees F.
- J. Epoxy Sealant: ASTM C881/C881M, Type I and III, Grade 3, Class B and C; two-component.
 1. Hardness Range: 65 to 75, Shore D, when tested in accordance with ASTM C661.
 2. Compressive Strength: 11,000 psi, when tested in accordance with ASTM D695.
 3. Color: Match adjacent finished surfaces.
 4. Service Temperature Range: 40 to 120 degrees F.
- K. Acrylic Emulsion Latex: Water-based; ASTM C834, single component, non-staining, non-bleeding, non-sagging; not intended for exterior use.
 1. Color: Standard colors matching finished surfaces.
 2. Grade: ASTM C834; Grade Minus 18 Degrees C (0 Degrees F).
- L. Non-Curing Butyl Sealant: Solvent-based, single component, non-sag, non-skinning, non-hardening, non-bleeding; non-vapor-permeable; intended for fully concealed applications.

2.04 SELF-LEVELING SEALANTS

- A. Self-Leveling Silicone Sealant: ASTM C920, Grade P, Uses M and A; single or multicomponent, explicitly approved by manufacturer for traffic exposure when recessed below traffic surface; not expected to withstand continuous water immersion.
 1. Movement Capability: Plus 100 percent, minus 50 percent, minimum.
 2. Hardness Range: 0 to 15, Shore A, when tested in accordance with ASTM C661.
 3. Color: Gray.
 4. Service Temperature Range: Minus 40 to 180 degrees F.
- B. Self-Leveling Polyurethane Sealant: ASTM C920, Grade P, Uses M and A; single or multi-component; explicitly approved by manufacturer for traffic exposure; not expected to withstand continuous water immersion .
 1. Movement Capability: Plus and minus 25 percent, minimum.
 2. Hardness Range: 35 to 55, Shore A, when tested in accordance with ASTM C661.
 3. Color: Gray.
 4. Service Temperature Range: Minus 40 to 180 degrees F.
- C. Self-Leveling Polyurethane Sealant for Horizontal Expansion Joints: ASTM C920, Grade P, Uses T, M and O; multi-component; explicitly approved by manufacturer for horizontal expansion joints.
 1. Movement Capability: Plus and minus 25 percent, minimum.
 2. Hardness Range: 30 to 35, Shore A, when tested in accordance with ASTM C661.
 3. Color: Limestone.
 4. Tensile Strength: 200 to 250 psi in accordance with ASTM D412.
- D. Self-Leveling Polyurethane Sealant for Continuous Water Immersion: Polyurethane; ASTM C920, Grade P, Uses M and A; single or multi-component; explicitly approved by manufacturer for traffic exposure and continuous water immersion.
 1. Movement Capability: Plus and minus 25 percent, minimum.
 2. Hardness Range: 35 to 55, Shore A, when tested in accordance with ASTM C661.
 3. Color: Gray.
 4. Service Temperature Range: Minus 40 to 180 degrees F.
- E. Rigid Self-Leveling Polyurethane Joint Filler: Two part, low viscosity, fast setting; intended for cracks and control joints not subject to significant movement.
 1. Hardness Range: Greater than 100, Shore A, and 50 to 80, Shore D, when tested in accordance with ASTM C661.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- F. Flexible Polyurethane Foam: Single-component, gun grade, and low-expanding.
 - 1. Color: White.
- G. High Quality Latex-Based Sound Sealant: ASTM C834, Type OP an opaque sealant, and Grade 0 Degrees C (32 Degrees F) meets requirements for low-temperature flexibility.
 - 1. Color: White.
- H. Semi-Self-Leveling Polyurethane Sealant: Intended for expansion joints in sidewalks, swimming pool decks, plazas, floors and other horizontal surfaces with up to 6 percent slope.
 - 1. Composition: Single or multi-component.
 - 2. Durometer Hardness, Type A: 35 to 45, minimum, when tested in accordance with ASTM D2240.
 - 3. Color: Match adjacent finished surfaces.

2.05 ACCESSORIES

- A. Backer Rod: Cylindrical cellular foam rod with surface that sealant will not adhere to, compatible with specific sealant used, and recommended by backing and sealant manufacturers for specific application.
 - 1. All Joints: ASTM C1330; Type C - Closed Cell Polyethylene.
 - 2. Closed Cell and Bi-Cellular: 25 to 33 percent larger in diameter than joint width.
- B. Backing Tape: Self-adhesive polyethylene tape with surface that sealant will not adhere to and recommended by tape and sealant manufacturers for specific application.
- C. Masking Tape: Self-adhesive, nonabsorbent, non-staining, removable without adhesive residue, and compatible with surfaces adjacent to joints and sealants.
- D. Joint Cleaner: Non-corrosive and non-staining type, type recommended by sealant manufacturer; compatible with joint forming materials.
- E. Primers: Type recommended by sealant manufacturer to suit application; non-staining.

PART 3 EXECUTION

3.01 EXAMINATION

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

3.02 PREPARATION

- A. Remove loose materials and foreign matter that could impair adhesion of sealant.
- B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.
- E. Concrete Floor Joints That Will Be Exposed in Completed Work: Test joint filler in inconspicuous area to verify that it does not stain or discolor slab.

3.03 INSTALLATION

- A. Perform work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Perform installation in accordance with ASTM C1193.
- C. Perform acoustical sealant application work in accordance with ASTM C919.
- D. Measure joint dimensions and size joint backers to achieve the following, unless otherwise indicated:
 - 1. Width/depth ratio of 2:1.
 - 2. Neck dimension no greater than 1/3 of the joint width.

ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS

3. Surface bond area on each side not less than 75 percent of joint width.
- E. Install bond breaker backing tape where backer rod cannot be used.
- F. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
- G. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.
- H. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.
- I. Concrete Floor Joint Filler: After full cure, shave joint filler flush with top of concrete slab.

END OF SECTION

SECTION 09 9000
PAINTING AND COATING**PART 1 - GENERAL****1.01 SUMMARY**

- A. Related Documents: General and Supplementary Conditions of the Contract, Division 01 General Requirements, and Drawings are applicable to this Section.
- B. Section Includes, but is not limited to:
 - 1. Exterior paints and coatings systems including; coatings

1.02 REFERENCES

- A. Industry Association Standards
 - 1. SSPC-SP 1 - Solvent Cleaning.
 - 2. SSPC-SP 2 - Hand Tool Cleaning.
 - 3. SSPC-SP 3 - Power Tool Cleaning.
 - 4. SSPC-SP 13 / NACE No. 6 Surface Preparation for Concrete.

1.03 DEFINITIONS

- A. Paint
 - 1. Means coating systems materials including primers, emulsions, epoxy, enamels, sealers, fillers, and other applied materials whether used as prime, intermediate, or finish coats.

1.04 SUBMITTALS

- A. Shop drawings, product data, and samples under provisions of Section 01 3000 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each paint and coating product should include:
 - 1. Product characteristics
 - 2. Surface preparation instructions and recommendations
 - 3. Primer requirements and finish specification
 - 4. Storage and handling requirements and recommendations
 - 5. Application methods
 - 6. Cautions
- C. Selection Samples: Submit a complete set of color chips that represent the full range of manufacturer's color samples available.
- D. Verification Samples: For each finish product specified, submit 8"x10" samples that represent actual product, color, and sheen.
- E. Closeout Submittals
 - 1. Submit under provisions of Section 01 7800 - Closeout Submittals.
 - 2. Upon conclusion of the project, the Contractor or paint manufacture/supplier shall furnish a coating maintenance manual, such as Sherwin-Williams "Custodian Project Color and Product Information" report or equal. Manual shall include an Area Summary with finish schedule, Area Detail designating where each product/color/finish was used, product data pages, Material Safety Data Sheets, care and cleaning instructions, touchup procedures, and color samples of each color and finish used.

1.05 QUALITY ASSURANCE

- A. Qualifications
 - 1. Single Source Responsibility:
 - a. Obtain each type of material required from single source.
- B. Pre-installation Meetings
 - 1. Comply with provisions of Section 01 3000 - Administrative Requirements.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Comply with requirements of Section 01 6000 - Product Requirements.

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

- B. Delivery: Deliver manufacturer's unopened containers to the work site. Packaging shall bear the manufacturer's name, label, and the following list of information:
 - 1. Product name, type (description)
 - 2. Application and use instructions
 - 3. Surface preparation
 - 4. VOC content
 - 5. Environmental issues
 - 6. Batch date
 - 7. Color number
- C. Storage: Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.
- D. Store materials in an area that is within the acceptable temperature range, per manufacturers instructions. Protect from freezing.
- E. Handling: Maintain a clean, dry storage area, to prevent contamination or damage to the coatings.

1.07 PROJECT CONDITIONS

- A. Project Environmental Requirements
 - 1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not apply coatings under environmental conditions outside manufacturer's absolute limits.

1.08 MAINTENANCE

- A. Extra Materials
 - 1. At completion of project, deliver to Owner extra stock of materials used on project as follows:
 - a. Ten (10) gallons for each field color/type, three (3) gallons for trim and accent of each color/type.
 - 2. Store in location as directed by Owner.
 - 3. Ensure containers are sealed and identified by manufacturer, type, and color.
 - 4. Submit maintenance data under provisions of Section 01 7800 - Closeout Submittals.
 - 5. Include cleaning methods, and recommended cleaning solutions.

PART 2 - PRODUCTS**2.01 MANUFACTURERS**

- A. Subject to compliance with requirements indicated herein, provide products of one of the listed manufacturers.
- B. Sherwin-Williams Co.: www.sherwin-williams.com.
- C. Kelly-Moore Paints: www.kelleymoore.com.
- D. PPG Paints: www.ppgpaints.com
- E. Benjamin Moore & Co.: www.benjaminmoore.com.
- F. TNEMEC Company Inc.: www.tnemec.com.
- G. Sika: www.sika.com
- H. Substitutions: Under provisions of Section 01 6000 - Product Requirements.

2.02 MATERIALS - GENERAL

- A. Paints and Coatings - General
 - 1. Unless otherwise indicated, provide factory-mixed coatings. When required, mix coatings to correct consistency in accordance with manufacturer's instructions before application. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
 - 2. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

shade lighter than succeeding coat, with final finish coat as base color.

B. Primers

1. Where the manufacturer offers options on primers for a particular substrate, use primer categorized as "best" by the manufacturer.

2.03 COLOR SCHEDULES

A. Color to match existing colors.

- B. All painted graphics shown on the drawings shall be included in the base proposal and shall be included in this section. Contractor shall note that school colors and mascot may be released after initial color selection. Contractor shall make all necessary adjustments.**

2.04 MISCELLANEOUS MATERIALS

A. Coating Application Accessories

1. Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials required per manufacturer's specifications.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Do not begin application of coatings until substrates have been properly prepared. Notify Architect of unsatisfactory conditions before proceeding**
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.**
- C. Proceed with work only after conditions have been corrected, and approved by all parties, otherwise application of coatings will be considered as an acceptance of surface conditions.**

3.02 PREPARATION

A. Methods:

1. Plaster/Stucco
 - a. Must be clean and free of any loose stucco. If recommended procedures for applying stucco are followed, and normal drying conditions prevail, the surface may be painted in 30 days. The pH of the surface should be between 6 and 9, unless the products to be used are designed to be used in high pH environments such as Loxon.

3.03 APPLICATION

- A. Comply with provisions of Section 01 7000 - Execution and Closeout Requirements.**
- B. Testing: Due to the wide variety of substrates, preparation methods, application methods and environments, one should test the product in an inconspicuous spot for adhesion and compatibility prior to full-scale application.**
- C. Apply all coatings and materials with manufacture specifications in mind. Mix and thin coatings according to manufacture recommendation.**
- D. Do not apply to wet or damp surfaces.**
 1. Wait at least 30 days before applying to new concrete or masonry. Or follow manufactures procedures to apply appropriate coatings prior to 30 days.
 2. Test new concrete for moisture content.
 3. Wait until wood is fully dry after rain or morning fog or dew.
- E. Apply coatings using methods recommended by manufacturer.**
- F. Uniformly apply coatings without runs, drips, or sags, without brush marks, and with consistent sheen.**
- G. Apply coatings at spreading rate required to achieve the manufacturers recommended dry film thickness.**
- H. Regardless of number of coats specified, apply as many coats as necessary for complete hide.**
- I. Inspection: The coated surface must be inspected and approved by the architect just prior to each coat.**

**ROCKWALL ISD – WSM STADIUM
METAL PANEL & PLASTER REPAIR PROJECT
ROCKWALL, TEXAS**

J.

3.04 REPAIR/RESTORATION

- A. For surfaces that are to receive new finish, prepare surface and apply materials as described below and per manufacture recommendation.
- B. Preparation of Existing Surfaces That Have Been Previously Painted or Varnished:
 - 1. The workmanship shall be best quality, and the surface shall be prepared in a thorough manner in order that the new finish shall be as finished as if the surface had been new with all the usual preparation for new paint or varnish.
 - 2. All previously painted or varnished surfaces or surfaces that have been previously finished in any manner shall first be prepared to receive new finish or any sort, according to the following specifications:
 - a. Existing painted sand finish plaster walls to be repainted
 - 1) Remove all scaled or loose paint.
 - 2) Fill all cracks in plaster as follows:
 - (a) Large cracks - caulk with latex sealant.
 - (b) Hairline cracks - Add 1 lb. of taping cement to 1 gallon of latex paint and brush across cracks until filled.
- C. Painting Existing Surfaces after Surfaces Have Been Prepared
 - 1. Sand Finish Plaster
 - a. One coat primer-sealer colored to match finish coat. Primer-sealer will be SW ProMar 200 Zero VOC Interior Latex Primer, B28W260o.
 - b. Two coat of paint shown on schedule or three coats if required to fully cover for first quality finish.

3.05 PROTECTION

- A. Protect finished coatings from damage until completion of project.
- B. Touch-up damaged coatings after substantial completion, following manufacturer's recommendation for touch up or repair of damaged coatings. Repair any defects that will hinder the performance of the coatings.

PART 4 - SCHEDULES

4.01 GENERAL

- A. The various surfaces and areas receiving finishes maybe indicated on the drawings or as noted below. The desired finishes are shown by code numbers. Not all codes listed below may be used. The required materials for each code number shown on the finish schedule are specified below under the corresponding code numbers.

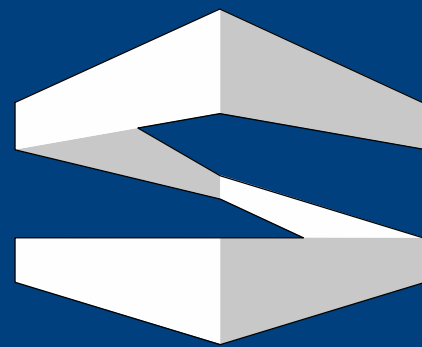
4.02 PAINTING SCHEDULE

- A. Code 112 - Exterior Plaster or Stucco
 - 1. 1st/2nd Coat: Sika Thorolastic-850. Apply according to manufacturer's specifications for complete coverage and comply with manufacturer's five year guarantee on labor and materials. Secure and deliver to the Architect the manufacturer's standard five year guarantee.

END OF SECTION

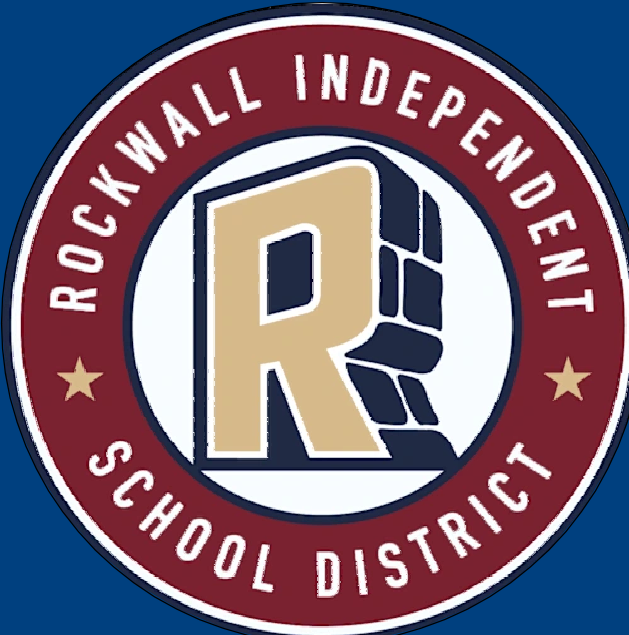
ROCKWALL ISD - WSM STADIUM - METAL PANEL & PLASTER REPAIR PROJECT

1215 T L TOWNSEND DRIVE, ROCKWALL TX 75087



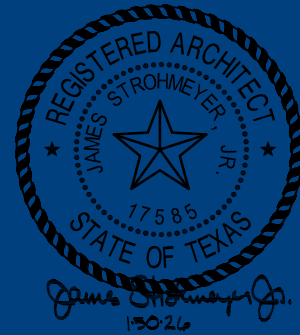
STROHMEYER
ARCHITECTS INC.

2701 SUNSET RIDGE DR,
SUITE 601, ROCKWALL,
TX 75032



ROCKWALL ISD
1050 WILLIAMS ST.
ROCKWALL, TX 75087
972-771-0605

FOR BIDDING AND CONSTRUCTION



FOR BIDDING AND CONSTRUCTION

Project Number: TBD
Drawing Date: 1.30.2026

Revisions:		
#	Revision Date	Revision Description

Sheet Title:
COVER SHEET

G000

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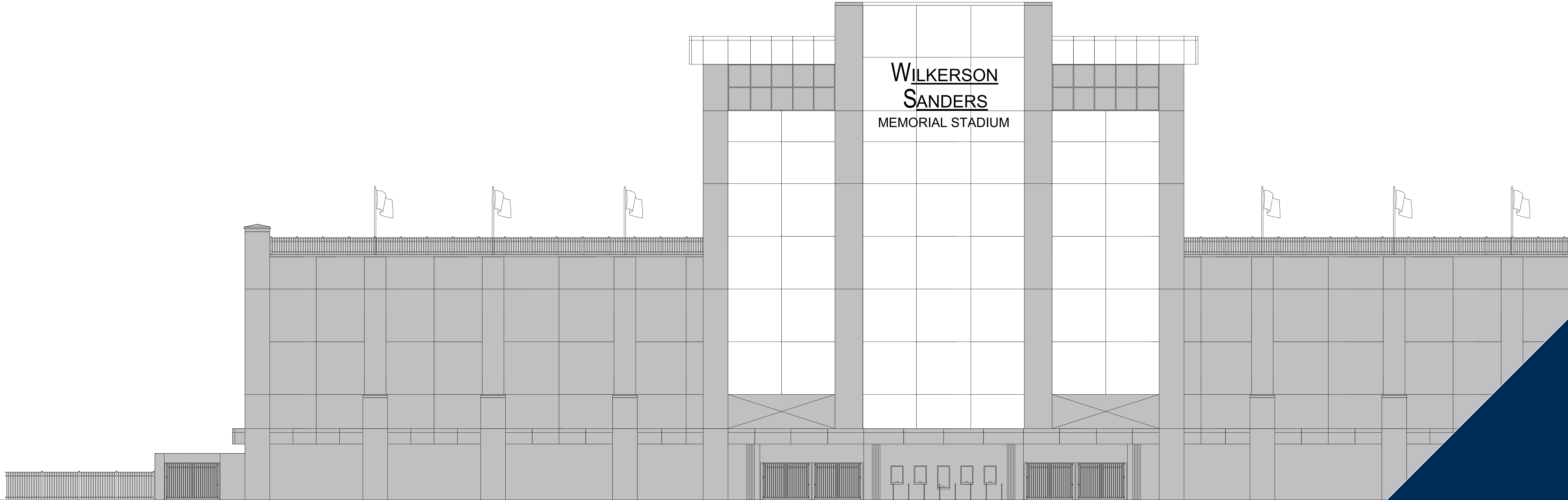
SCOPE

BASE BID:

1. REPLACE METAL SOFFIT AND FASCIA PANELS AT PRESSBOX.
2. ADD ELASTOMERIC COATING AT DEFINED PORTION OF STADIUM PLASTER.

ALTERNATE #1

AS IDENTIFIED ON DRAWINGS, DEMO EXISTING ROOF DOWN TO INSULATION. REPAIR/REPLACE DAMAGED INSULATION. INSTALL NEW COVER BOARD AND NEW FULLY ADHERED (HOT ASPHALT) PVC MEMBRANE ROOFING SYSTEM AS SPECIFIED.



E

D

C

B

A

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SCOPE

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CODE ANALYSIS:

APPLICABLE CODES AND STANDARDS

2021 INTERNATIONAL BUILDING CODE/AMENDMENTS
2020 NATIONAL ELECTRIC CODE/AMENDMENTS
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL MECHANICAL CODE/AMENDMENTS
2021 INTERNATIONAL PLUMBING CODE/AMENDMENTS
2021 INTERNATIONAL FIRE CODE/AMENDMENTS
2010 AMERICANS WITH DISABILITIES ACT
2012 TEXAS ACCESSIBILITY STANDARDS
2014 ICC-500

BUILDING INFORMATION

THE PROJECT CONSISTS OF A METAL PANEL & PLASTER REPAIR FOR WILKERSON-SANDERS STADIUM IN ROCKWALL, TX.

CONSTRUCTION TYPE
-RENOVATION & REPAIR
-TYPE I-B BUILDING ELEMENTS NOT REQUIRED TO BE RATED
-GROUP A-5 ASSEMBLY OCCUPANCY

SHEET INDEX	
Sheet Number	Sheet Name
GENERAL	
G000	COVER SHEET
G100	CODE SHEET 2021 & INDEX
ARCH DEMO	
AD101	DEMO PLAN & ELEVATIONS
ARCHITECTURE	
A100	LEVEL 1 PLAN & ROOF PLAN & DETAILS
A101	ELEVATIONS & SECTION
A102	ROOF PLAN DETAILS - ALTERNATE #1 (SINGLE PLY)

NOTICE TO CONTRACTOR

IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS IS TO REPLACE METAL SOFFIT AND FASCIA PANELS AT THE STADIUM PRESS BOX ALONG WITH ADDING AN ELASTOMERIC COATING TO A DEFINED PORTION OF THE STADIUM PLASTER.

ALL WORK MUST BE COMPLETED WITH A LIFT, CRANE, ETC. NO ATTACHMENTS TO THE ROOF, BRICK, PLASTER OR STRUCTURE WILL BE ALLOWED FOR HOISTING OR SCAFFOLDING.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL;

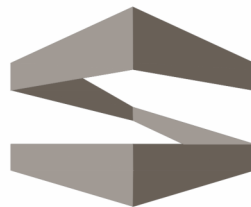
- 1. CAREFULLY INSPECT THE SITE;
- 2. EXAMINE THE ENTIRE CONSTRUCTION DOCUMENTS;
- 3. REVIEW AND HAVE A COMPREHENSIVE KNOWLEDGE OF THE APPLICABLE CODE REQUIREMENTS
- 4. BID COMPLETE, FUNCTIONAL SYSTEMS FOR COMPLETE PROJECT AS INTENDED BY THE CONSTRUCTION DOCUMENTS.

CHANGE ORDER PROPOSALS FOR INCREASED COST FOR THE FOLLOWING WILL NOT BE ACCEPTED:
1. ADDITIONAL COST DUE TO EXISTING SITE CONDITIONS WHICH COULD HAVE BEEN REASONABLY DETERMINED BY A CAREFUL INSPECTION OF THE SITE: OR
2. ADDITIONAL COST THAT COULD HAVE BEEN AVOIDED BY A COMPLETE AND THOROUGH REVIEW OF THE CONSTRUCTION DOCUMENTS.

SUBCONTRACTORS SHALL BID THE ENTIRE SET.

CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, SUBMIT AN RFI FOR CLARIFICATION, OBTAIN A RESPONSE, INCLUDING ANY ADDITIONAL DIRECTION AS NECESSARY FROM THE ARCHITECT, AND ACCEPT THE ADDITIONAL DIRECTION BEFORE COMMENCING OR PROCEEDING WITH THE WORK.

CONTRACT SHALL KEEP THE SITE FREE OF DEBRIS. THE SITE MUST BE CLEANED DAILY.



STROHMEYER
ARCHITECTS INC.



ROCKWALL ISD
1050 WILLIAMS ST.
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FOR BIDDING AND CONSTRUCTION



ROCKWALL ISD -
WSM STADIUM -
METAL PANEL &
PLASTER REPAIR
PROJECT

1215 T L TOWNSEND DR.
ROCKWALL, TX 75087

Project Number: TBD
Drawing Date: 1.30.2026
Drawn: Author
Checked: Checker
Scale: 1/2" = 1'-0"

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Revisions:

#	Revision Date	Revision Description

Sheet Title:

CODE SHEET 2021
& INDEX

G100

DEMOLITION GENERAL NOTES

- A. BIDDERS SHALL VISIT SITE AND BE FAMILIAR WITH EXISTING CONDITIONS, INCLUDING BUT NOT LIMITED TO EXISTING DIMENSIONS, EQUIPMENT, LOCATIONS, SIZES, QUANTITIES, AND MATERIALS.
- B. EXISTING ELECTRICAL POWER SERVING THE EXISTING FACILITY SHALL REMAIN ON LINE. DISRUPTIONS REQUIRED FOR CONSTRUCTION TO BE COORDINATED WITH THE OWNER REPRESENTATIVE ASSIGNED TO THIS SPECIFIC PROJECT.
- C. CONTRACTOR SHALL KEEP OPENINGS TEMPORARILY COVERED FOR PEDESTRIAN SAFETY.
- D. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF TEMPORARY SHORING AND BRACING REQUIRED FOR DEMOLITION.
- E. EXISTING CONSTRUCTION IS SHOWN BASED UPON OWNER FURNISHED PLANS, OWNER FURNISHED SURVEYS, AND ONSITE OBSERVATIONS. DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS WILL BE REPORTED TO THE ARCHITECT/ENGINEER/PROJECT MANAGER PRIOR TO PROCEEDING WITH WORK.
- F. EXISTING CONSTRUCTION ADJACENT TO DEMOLITION WORK WILL BE PATCHED AND REPAIRED TO MATCH ORIGINAL CONDITION.
- G. DEMOLITION WORK TIMES SHALL BE COORDINATED WITH THE OWNER REPRESENTATIVE ASSIGNED TO THIS SPECIFIC PROJECT.
- H. THE EXISTING FACILITY SHALL REMAIN FUNCTIONAL DURING THE COURSE OF THE DEMOLITION WORK. CONTRACTOR WILL MAINTAIN DUST BARRIERS, BARRICADES, PEDESTRIAN PROTECTION, WATER PROTECTION, AND SAFETY DEVICES IN PLACE AT ALL TIMES DURING AND AFTER DEMOLITION UNTIL NEW WORK IS INSTALLED.
- I. CONTRACTOR SHALL MAINTAIN SITE DRAINAGE DEVICES AND COMPONENTS DURING THE COURSE OF DEMOLITION AND UP UNTIL NEW WORK IS IN PLACE. THIS INCLUDES, BUT IS NOT LIMITED TO, EXISTING ROOF DRAINAGE.
- J. DEMOLITION, AS NOTED, CONSISTS OF COMPLETE REMOVAL OF THE LISTED ITEMS, RELATED FASTENERS, AND ATTACHMENT MATERIALS LEAVING A CLEAN SURFACE READY TO RECEIVE NOTED MATERIALS OR SCHEDULED FINISHES.
- K. UNLESS NOTED OTHERWISE, MATERIALS SHALL BE REMOVED FROM SITE AND DISPOSED OF AT CONTRACTOR'S EXPENSE. DISPOSAL WILL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND GUIDELINES.
- L. DEMOLITION SHALL FOLLOW THE CONSTRUCTION SCHEDULE PROVIDED IN THE SPECIFICATIONS.
- M. PRECAUTIONS SHALL BE TAKEN TO SEPARATE STUDENTS, SCHOOL STAFF, AND VISITORS FROM DEMOLITION, AND CONSTRUCTION EFFORTS, ACTIVITIES, AND WORK, TO PROTECT THEIR HEALTH AND SAFETY.
- N. ADDITIONAL MATERIALS, WHERE CONSTRUCTION ADJOINS EXISTING, NOT SPECIFICALLY IDENTIFIED IN THE DEMOLITION PLANS, WILL BE REMOVED AS REQUIRED TO COMPLETE THE CONSTRUCTION. THESE MATERIALS TYPICALLY INCLUDE MATERIAL PROJECTION BEYOND THE FACE OF THE WALL, INCLUDING BRICK SILLS, OTHER PROJECTIONS, AND ROOF FLASHINGS, GUTTERS, AND TRIMS. REFER TO WALL SECTIONS FOR SPECIFIC CONDITIONS.
- O. REMOVE EXISTING ROOF CAP AT PARAPET - SALVAGE FOR RE-USE.
- P. REMOVE EXISTING MULTI-PLY ROOFING MATERIAL - PROTECT ALL ADJACENT FLASHING TO REMAIN.
- Q. INSPECT EXISTING ROOF INSULATION FOR DAMAGE - REPLACE WITH NEW.
- R. COORDINATE REMOVAL OF EXISTING FLASHING TO ENSURE NO DAMAGE TO ADJACENT EXISTING MATERIALS.
- S. INSPECT PERIMETER BLOCKING AND ENSURE IN LIKE-NEW CONDITION, REPLACE WHERE DAMAGED.
- T. REMOVE AND SALVAGE ALL ROOF DRAIN CAPS AND HARDWARE - REPLACE WHERE DAMAGED.
- U. PROTECT ALL EXISTING ADJACENT SURFACES DURING CONSTRUCTION.
- V. CONTRACTOR SHALL CONTACT ARCHITECT FOR ANY DISCREPANCIES FOUND AND ENSURE EXISTING ROOF INSULATION, ROOF DECK AND ADJACENT SURFACES ARE PREPARED FOR NEW ROOF.

KEYNOTE LEGEND	
CV	Keynote Text
02.01	ALTERNATE 1 - REMOVE EXISTING/SALVAGE/REINSTALL METAL PANEL COPING AROUND PERIMETER OF ROOF
02.02	DEMO EXISTING METAL PANELS, REPLACE & REPAIR SUBSTRATE AS NEEDED, REPAIR PCP SOFFIT DAMAGED IN DEMO/INSTALLATION OF NEW METAL PANELS
02.03	EXISTING PCP SOFFIT TO REMAIN, PATCH AND REPAIR IF DAMAGED IN DEMO
02.04	DEMO EXISTING METAL PANELS, REPLACE & REPAIR DAMAGED SUBSTRATE AS NEEDED
02.05	CLEAN/PREP SURFACE TO RECEIVE NEW ELASTOMERIC COATING, CLEAN/PREP JOINT TO RECEIVE NEW CAULK
02.06	ALTERNATE 1 - DEMO EXISTING ROOF DOWN TO INSULATION, PROVIDE NEW THERMOPLASTIC POLYOLEFIN ROOF. REPAIR AND REPLACE ANY ROOF SUBSTRATE, INSULATION, METAL DECK, ETC., THAT IS DAMAGED OR DETERIORATED

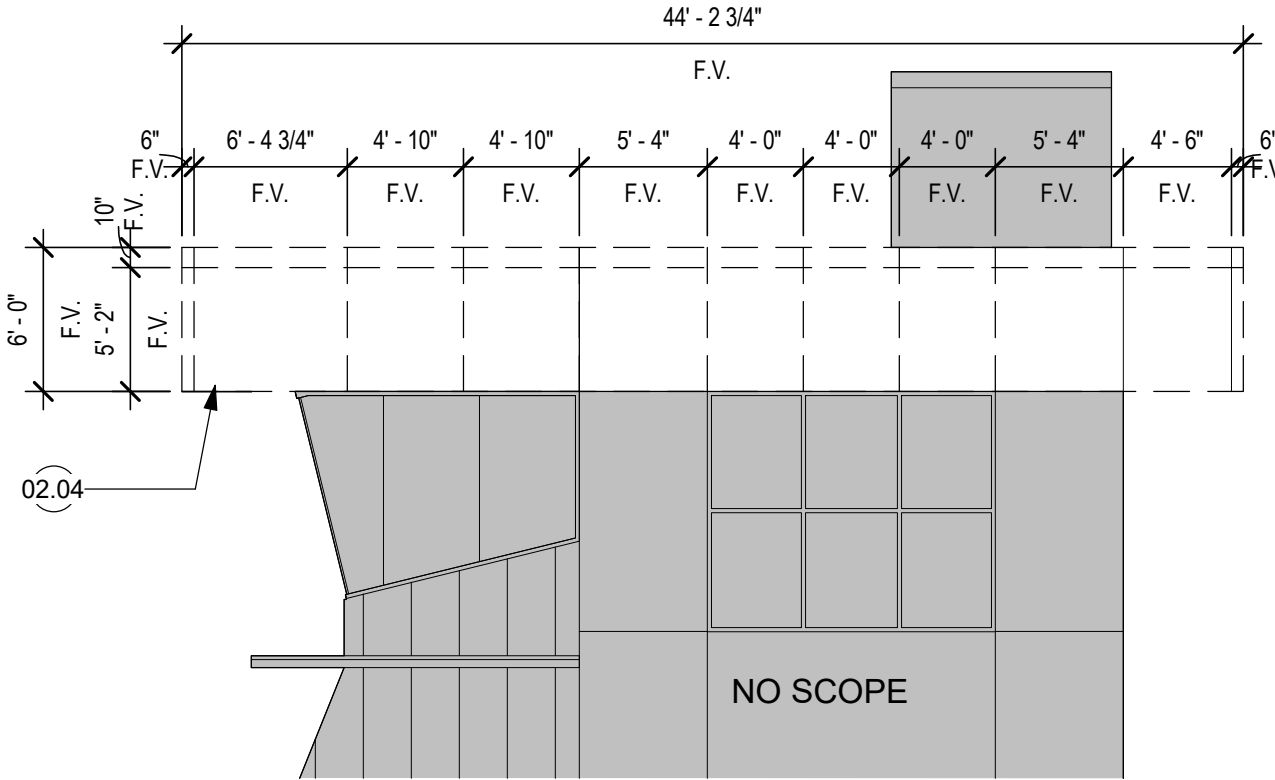
SCOPE

BASE BID:

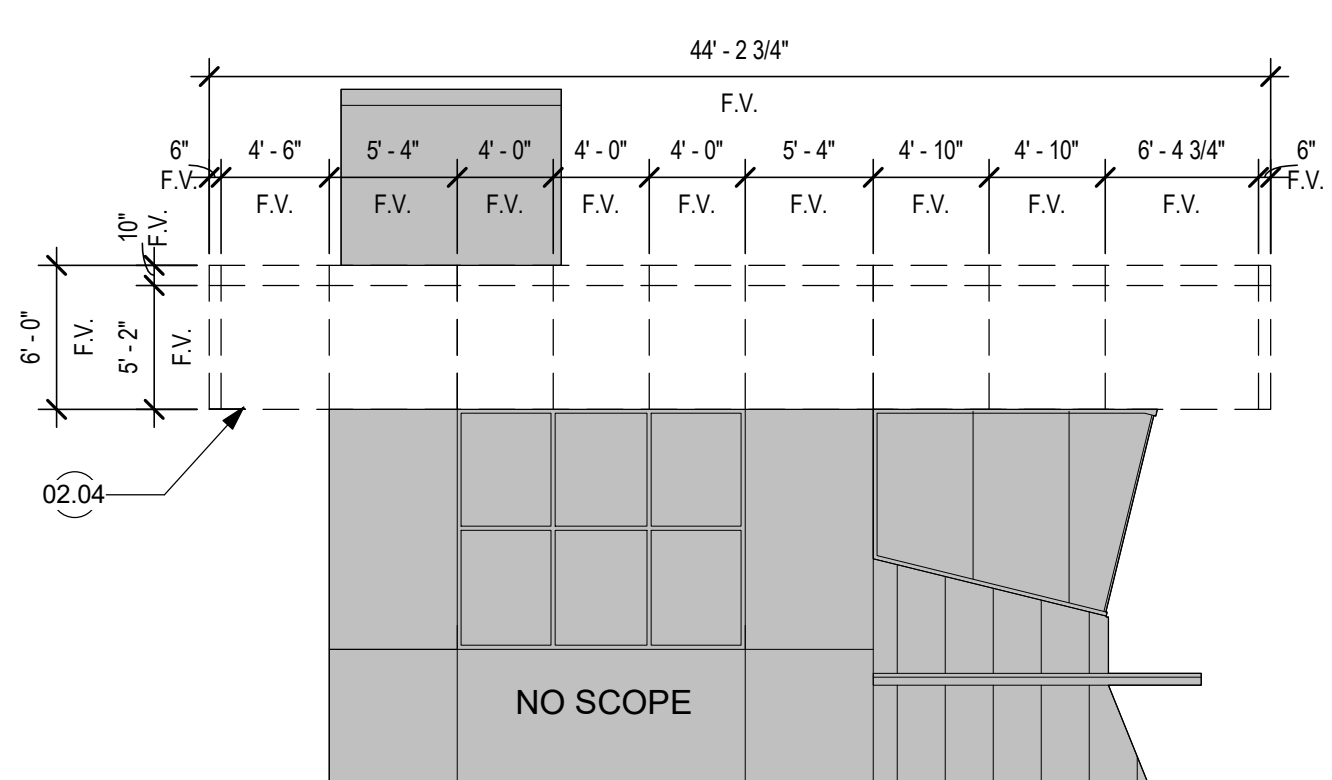
- REPLACE METAL SOFFIT AND FASCIA PANELS AT PRESSBOX.
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ALTERNATE #1

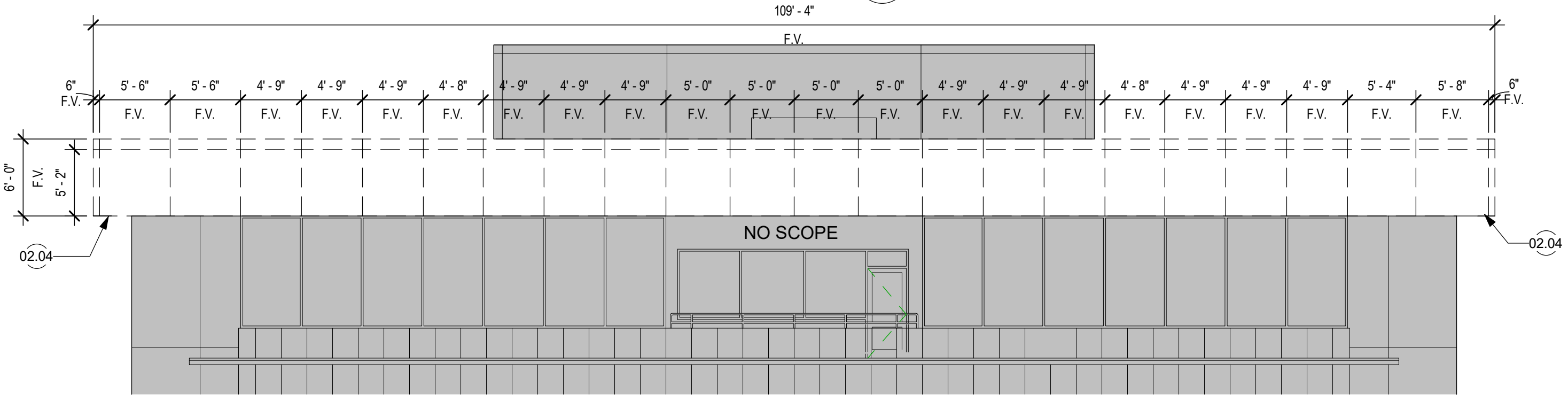
AS IDENTIFIED ON DRAWINGS, DEMO EXISTING ROOF DOWN TO INSULATION. REPAIR/REPLACE DAMAGED INSULATION. INSTALL NEW COVER BOARD AND NEW FULLY ADHERED (HOT ASPHALT) PVC MEMBRANE ROOFING SYSTEM AS SPECIFIED.



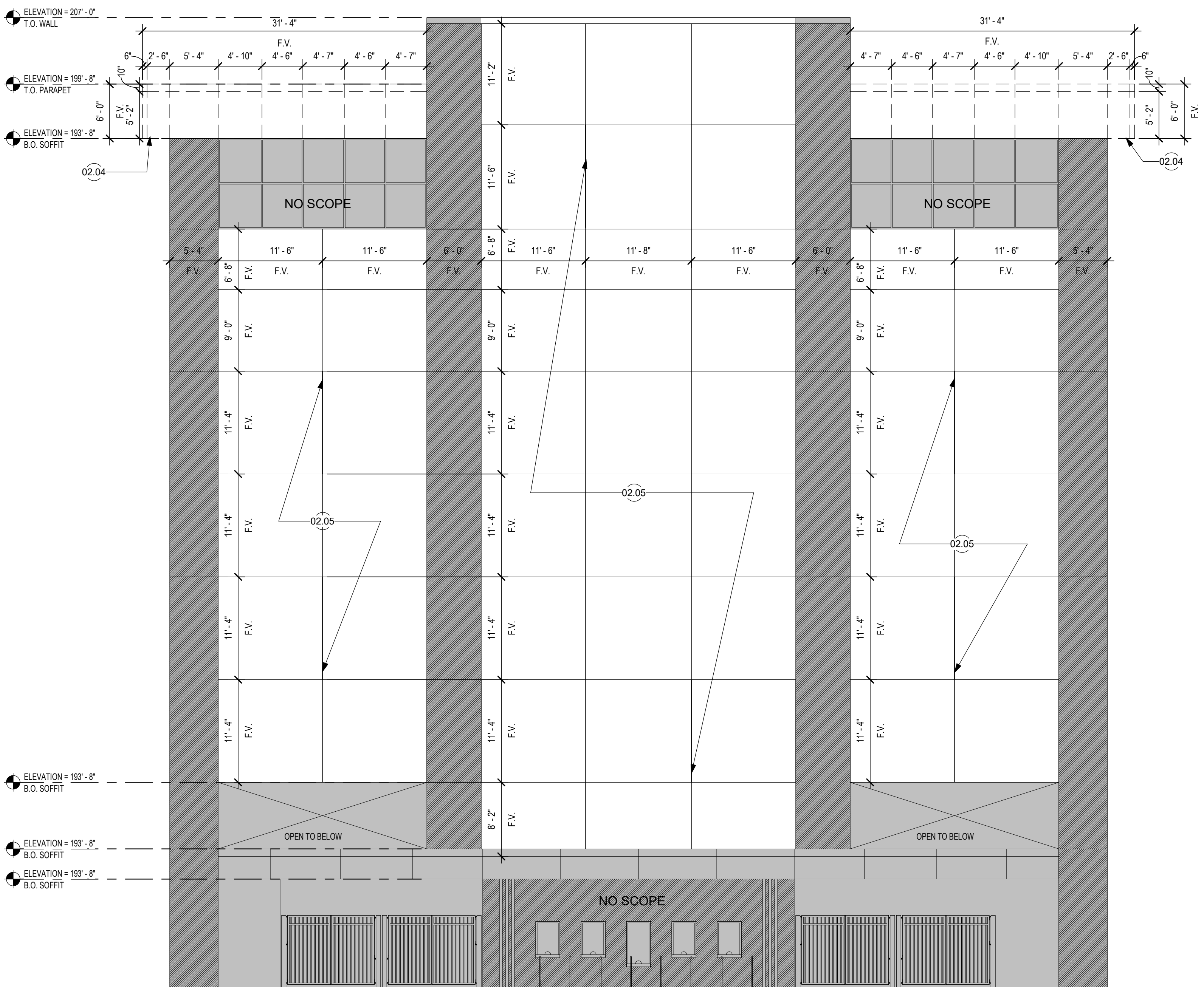
3 DEMO - PRESSBOX - NORTH ELEVATION
1/8" = 1'-0"



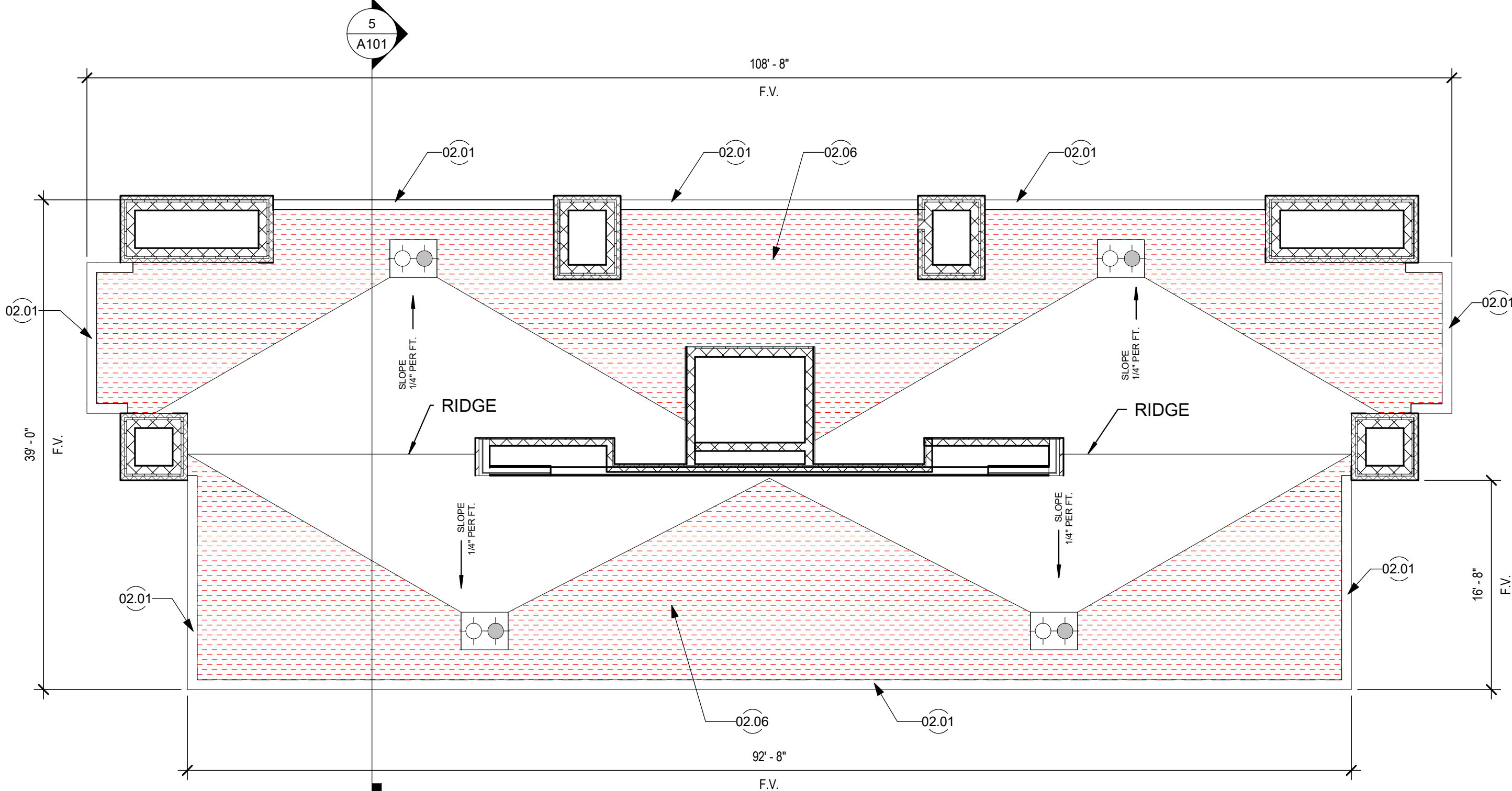
4 DEMO - PRESSBOX - SOUTH ELEVATION
1/8" = 1'-0"



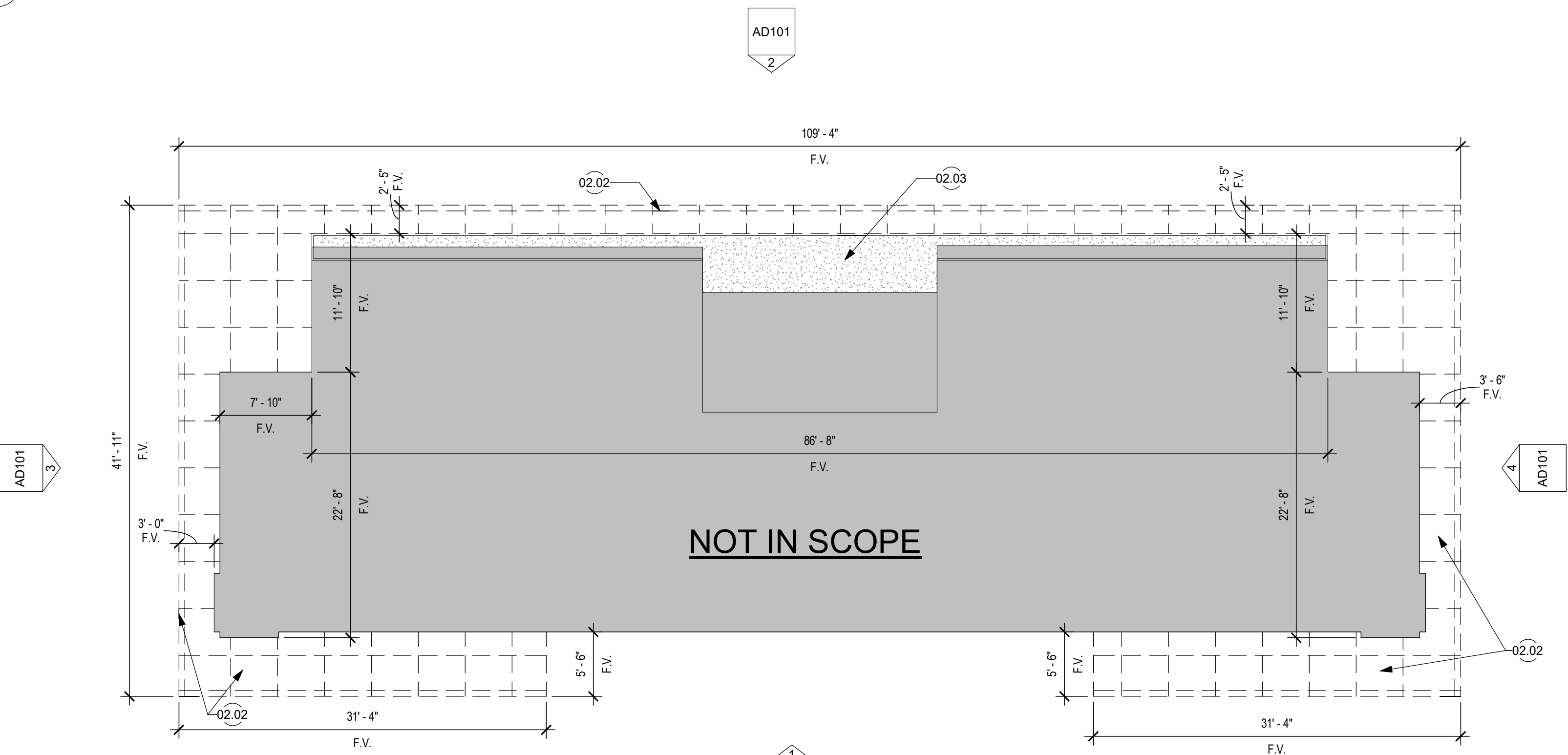
2 DEMO - PRESSBOX - EAST ELEVATION
1/8" = 1'-0"



1 DEMO - PRESSBOX - WEST ELEVATION
1/8" = 1'-0"



6 ALTERNATE #1 - DEMO ROOF PLAN - LOW ROOF
1/8" = 1'-0"



5 DEMO - PRESSBOX RCP - SOFFIT
1/8" = 1'-0"

STROHMEYER
ARCHITECTS INC.

ROCKWALL INDEPENDENT
SCHOOL DISTRICT

ROCKWALL ISD
1050 WILLIAMS ST.
ROCKWALL, TX 75087
972-771-0605

FOR BIDDING AND CONSTRUCTION

ROCKWALL ISD -
WSM STADIUM -
METAL PANEL &
PLASTER REPAIR
PROJECT

1215 T L TOWNSEND DR.
ROCKWALL, TX 75087

Project Number: TBD
Drawing Date: 1.30.2026
Drawn: Author
Checked: Checker
Scale: As indicated

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#	Revision Date	Revision Description

Sheet Title:
DEMO PLAN &
ELEVATIONS

AD101

E

D

C

B

A

1/30/2026 4:11:16 PM Autodesk Docs://Rockwall ISD WSM Stadium Renovation/ROCKWALL ISD WSM STADIUM UPDATES.rvt

1

2

3

4

5

6

WILKERSON SANDERS STADIUM COLOR SCHEDULE					
MARK	MATERIAL	MANUFACTURER	STYLE	MFR. NO.	COLOR
MP1	METAL PANEL (MATCH EXISTING)	ALUCOBOND	PLUS	PLUS	PLATINUM MCA
PNT1	ELASTOMERIC COATING	SKA	THOROLASTIC-800	-	MATCH EXISTING

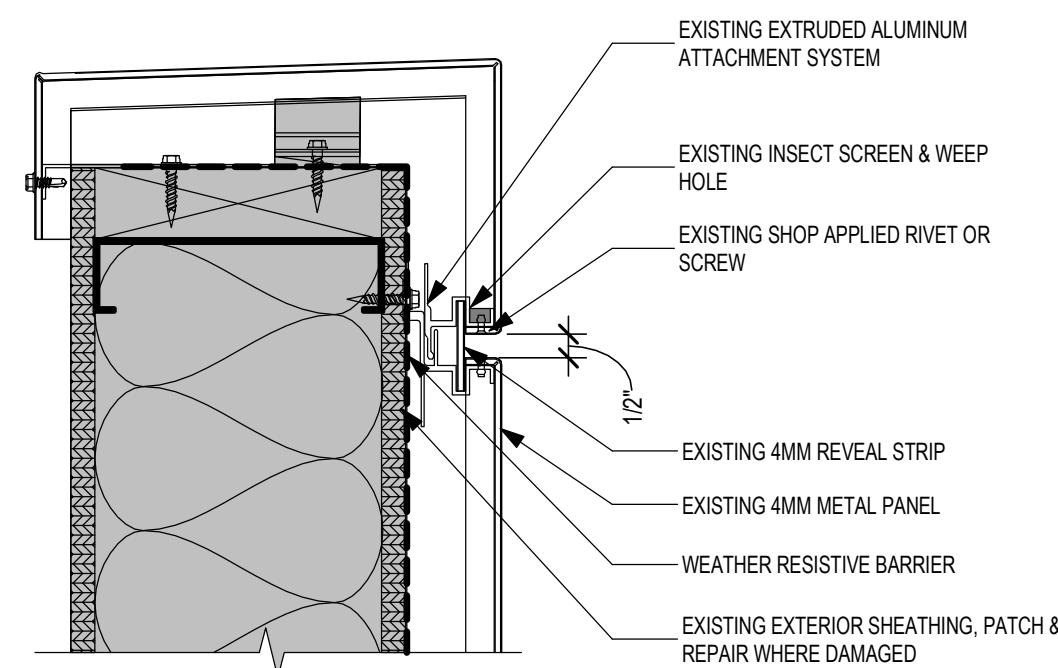
SCOPE

BASE BID:

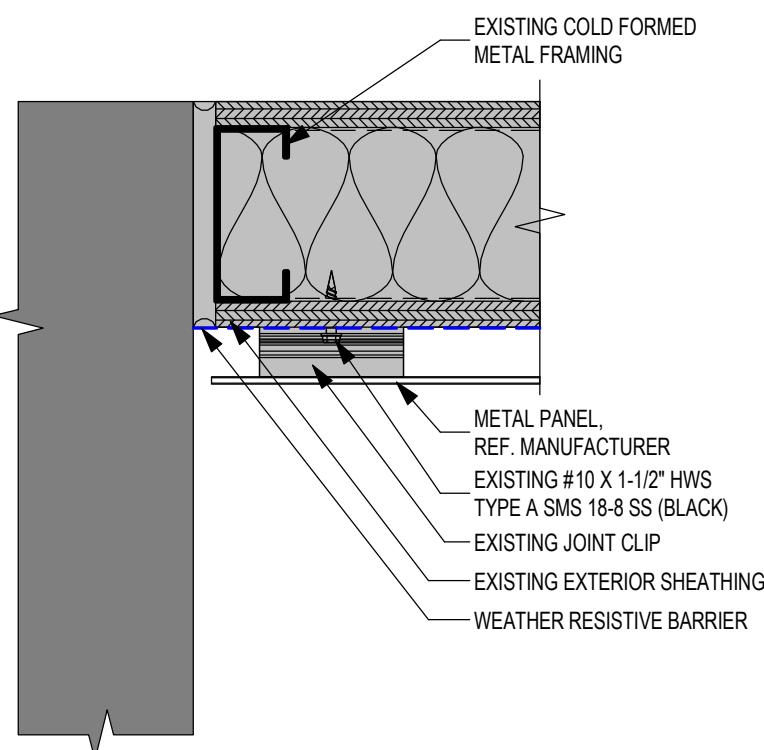
- REPLACE METAL SOFFIT AND FASCIA PANELS AT PRESSBOX.
- ADD ELASTOMERIC COATING AT DEFINED PORTION OF STADIUM PLASTER.

ALTERNATE #1

AS IDENTIFIED ON DRAWINGS, DEMO EXISTING ROOF DOWN TO INSULATION. REPAIR/REPLACE DAMAGED INSULATION. INSTALL NEW COVER BOARD AND NEW FULLY ADHERED (HOT ASPHALT) PVC MEMBRANE ROOFING SYSTEM AS SPECIFIED.

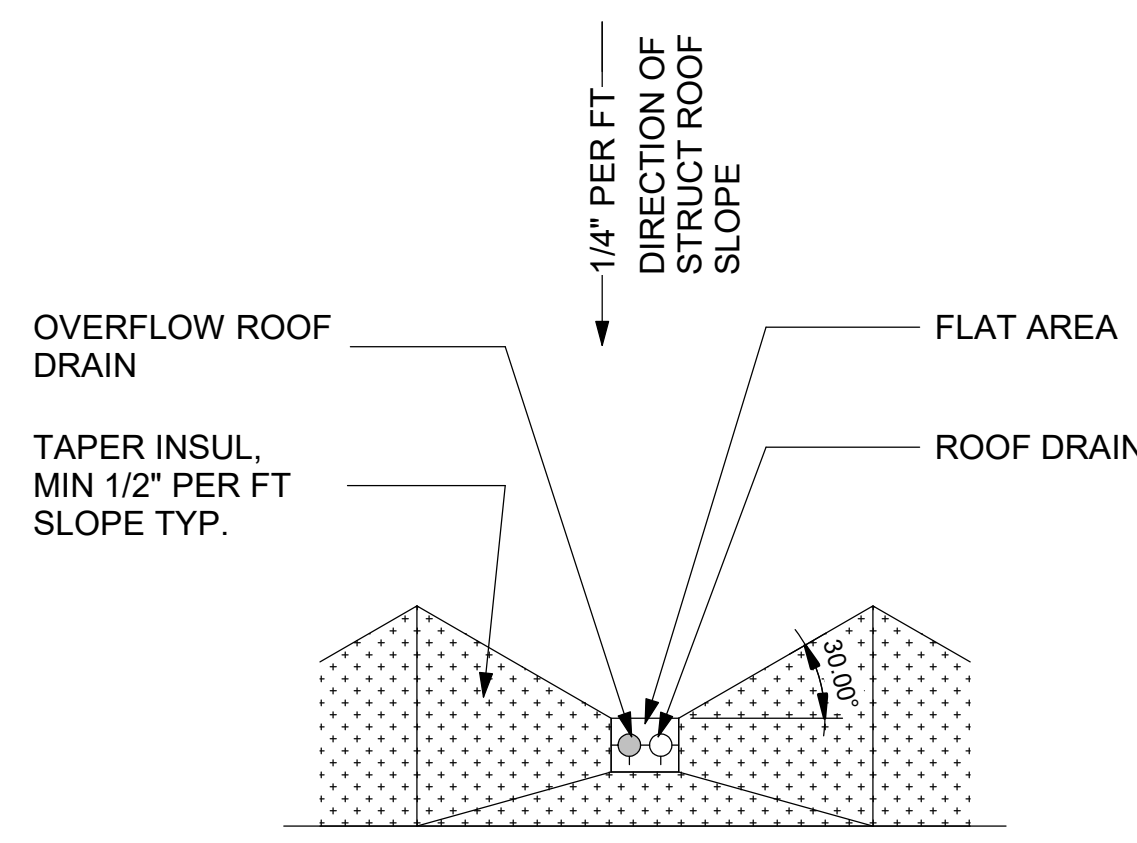


6 METAL PANEL - CAP/FASCIA - PRESSBOX
3" = 1'-0"

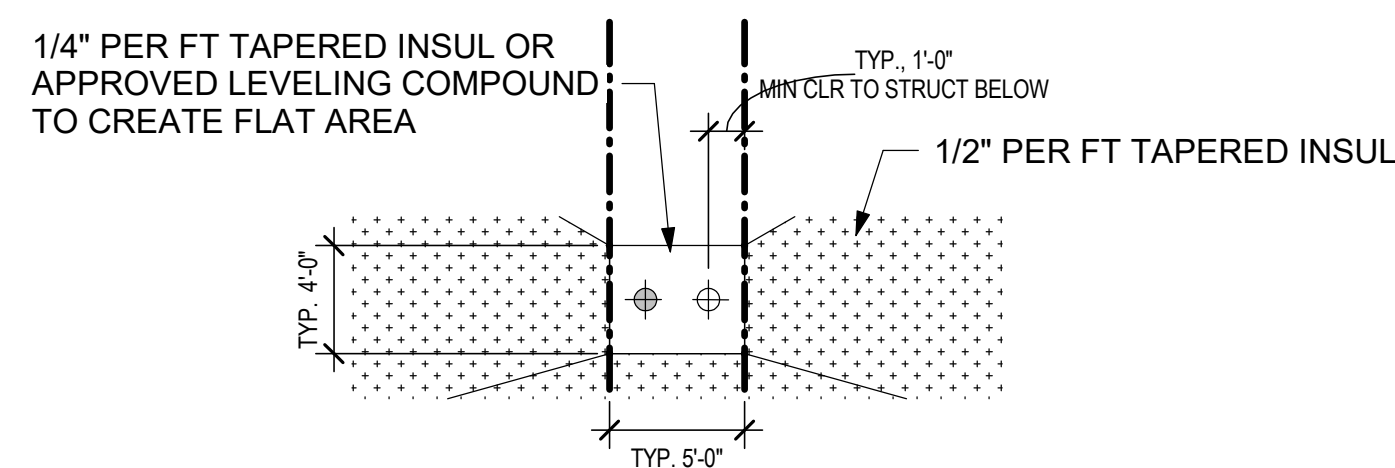


5 METAL PANEL - END WALL - PRESSBOX
3" = 1'-0"

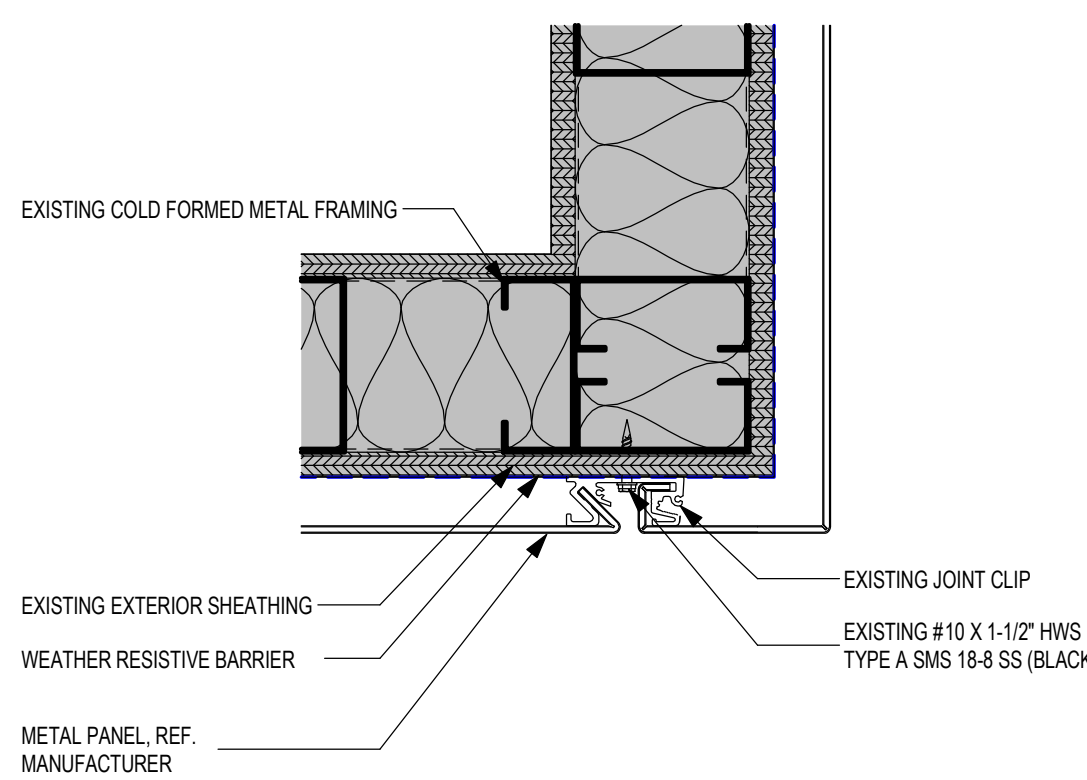
TYP ROOF DRAIN NOTES



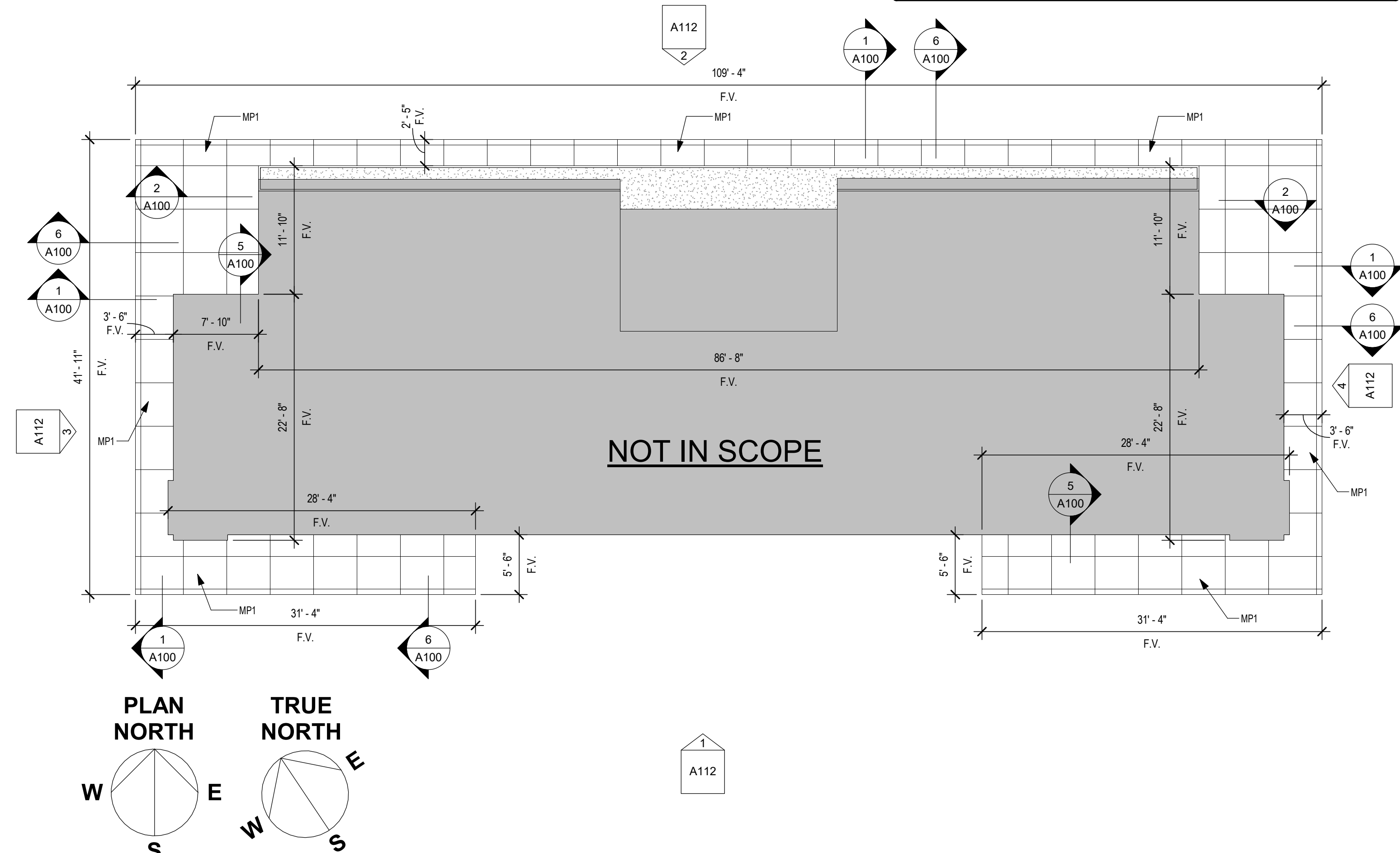
ENLARGED ROOF DRAIN PLAN



2 METAL PANEL - VERTICAL JOINT - PRESSBOX
3" = 1'-0"

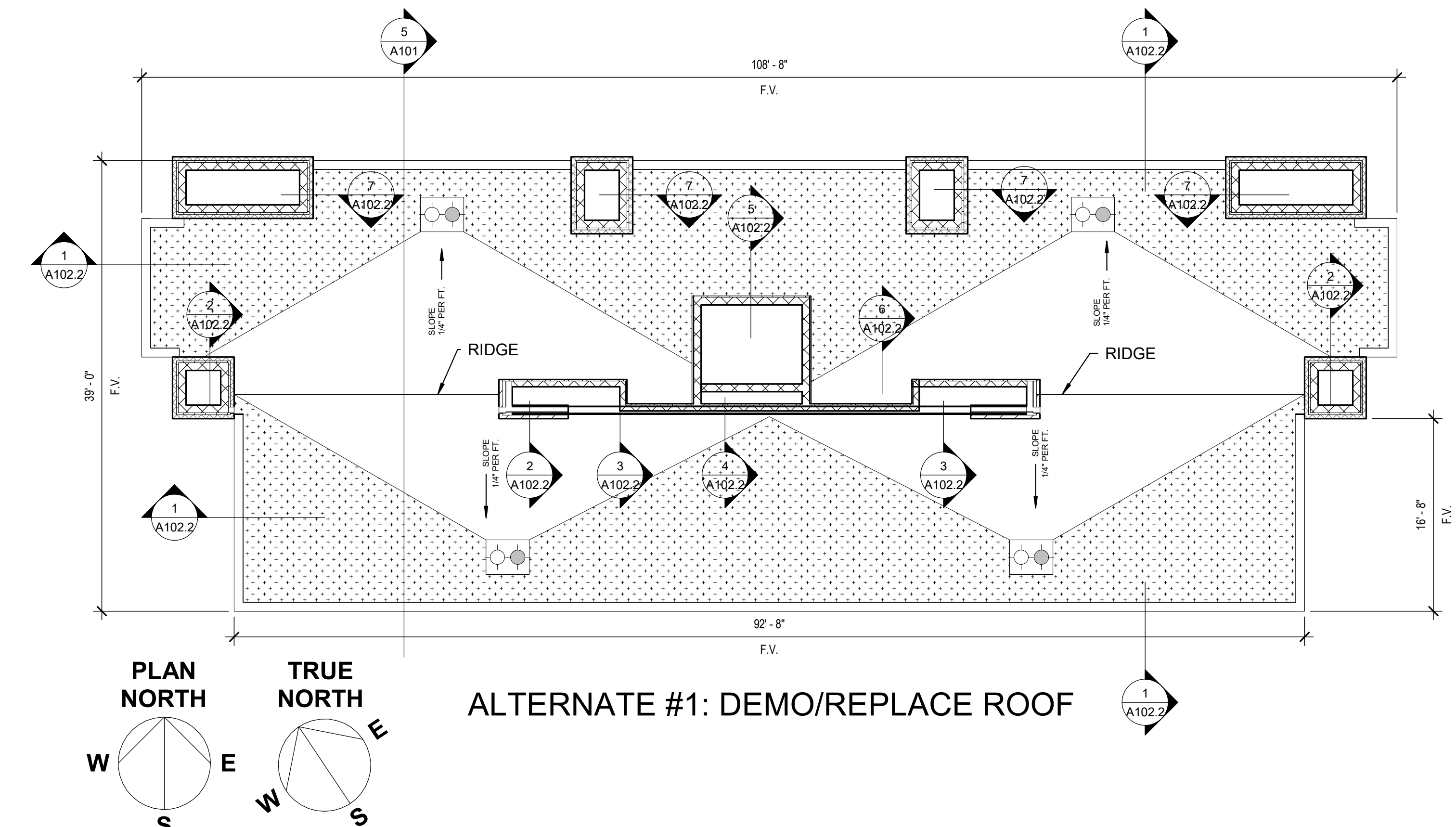
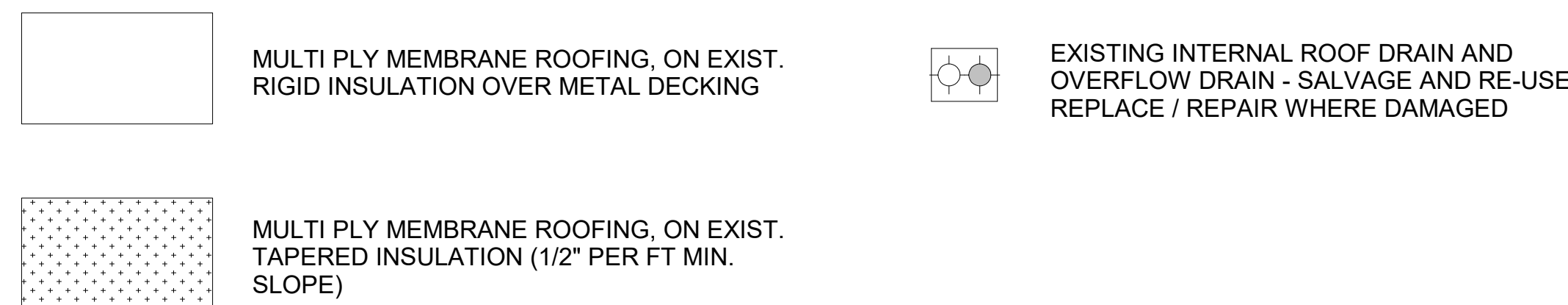


1 METAL PANEL - WALL TO SOFFIT - PRESSBOX
3" = 1'-0"



4 PRESSBOX RCP - SOFFIT
1/8" = 1'-0"

ROOF LEGEND



3 ROOF PLAN - LOW ROOF
1/8" = 1'-0"



STROHMEYER
ARCHITECTS INC.



ROCKWALL ISD
1050 WILLIAMS ST.
ROCKWALL, TX 75087
972-771-0605

FOR BIDDING AND CONSTRUCTION



ROCKWALL ISD -
WSM STADIUM -
METAL PANEL &
PLASTER REPAIR
PROJECT

1215 T L TOWNSEND DR.
ROCKWALL, TX 75087

Project Number: TBD
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Revisions:

#	Revision Date	Revision Description

Sheet Title:

LEVEL 1 PLAN &
ROOF PLAN &
DETAILS

A100

E

D

C

B

A

E

D

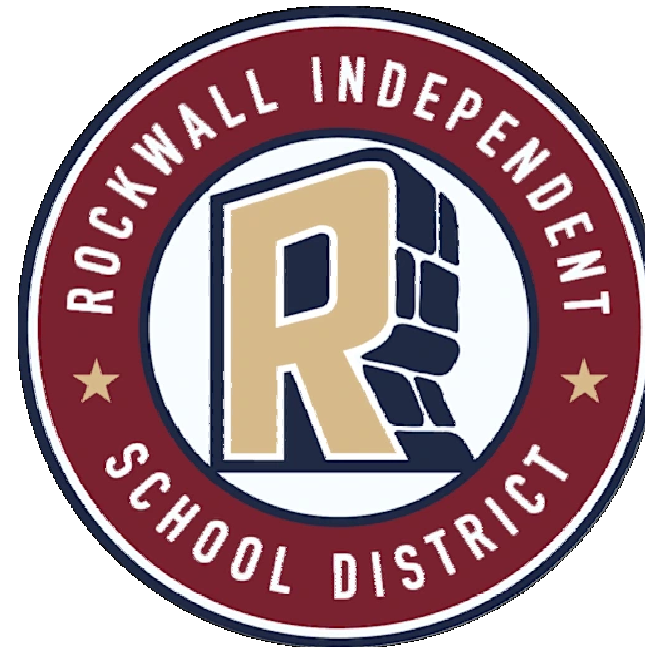
C

B

A



STROHMEYER
ARCHITECTS INC.



ROCKWALL ISD
1050 WILLIAMS ST.
ROCKWALL, TX 75087
972-771-0605

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ROCKWALL ISD -
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Revisions:

#	Revision Date	Revision Description

Sheet Title:

ELEVATIONS &
SECTION

A101

WILKERSON SANDERS STADIUM COLOR SCHEDULE					
MARK	MATERIAL	MANUFACTURER	STYLE	MFR. NO.	COLOR
MP1	METAL PANEL (MATCH EXISTING)	ALUCOROND	PLUS	PLUS	PLATINUM MICA
PNT1	ELASTOMERIC COATING	SKA	THOROLASTIC-400	-	MATCH EXISTING

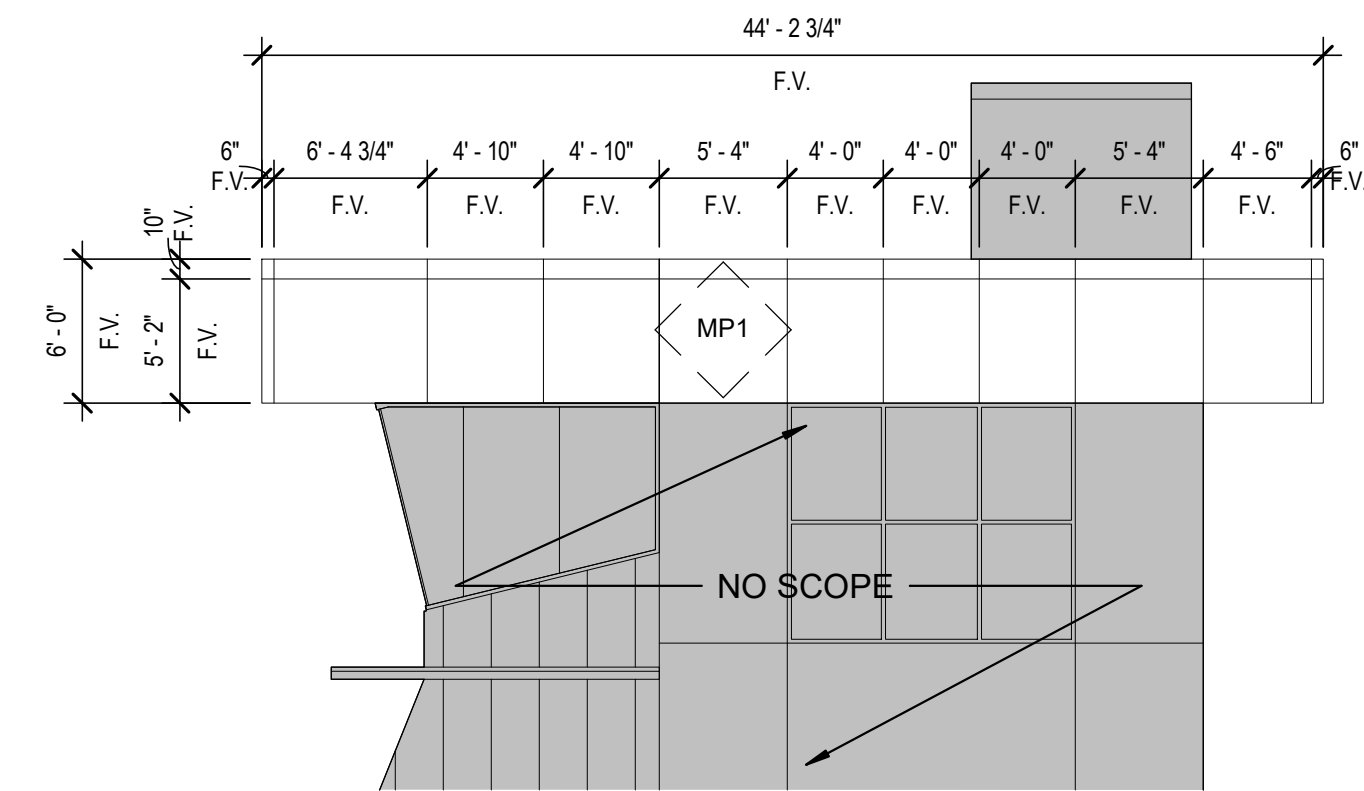
SCOPE

BASE BID:

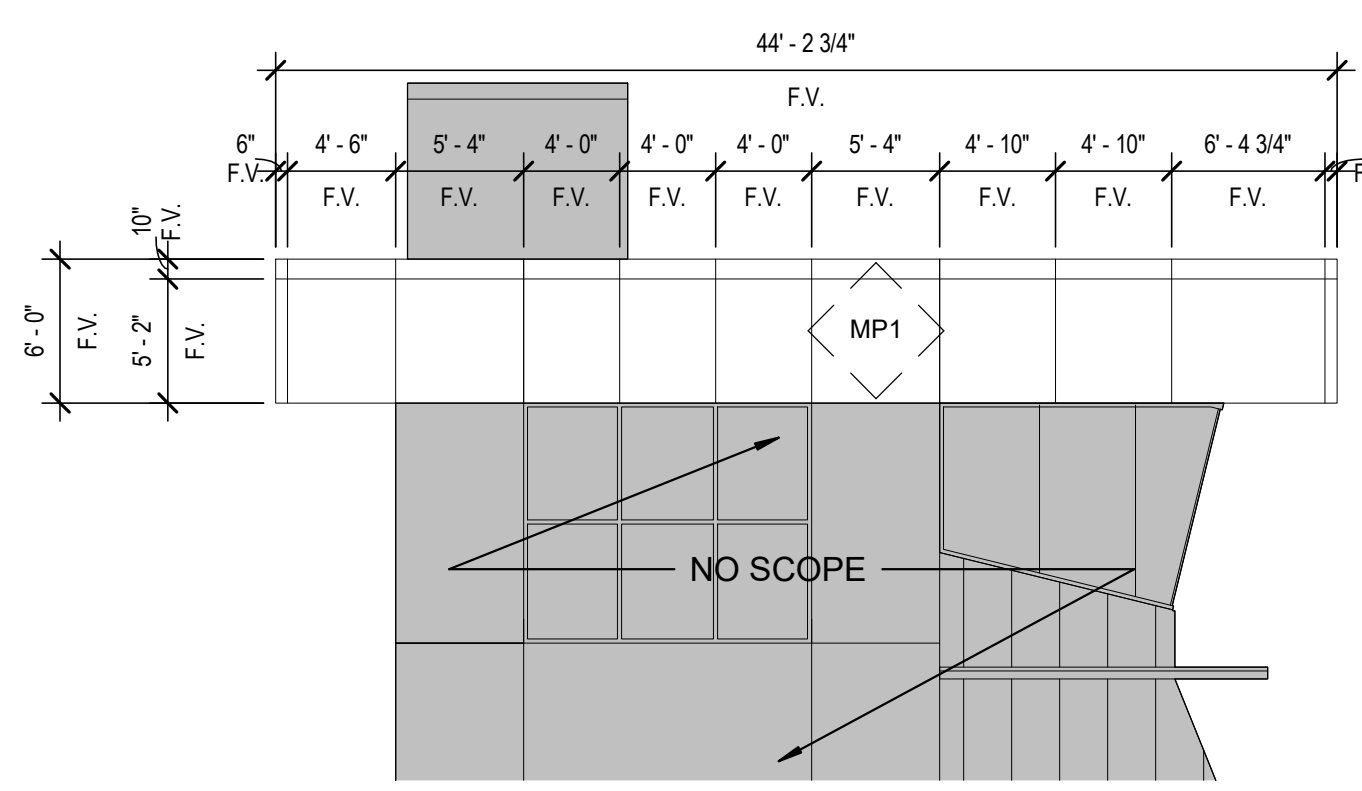
- REPLACE METAL SOFFIT AND FASCIA PANELS AT PRESSBOX
- ADD ELASTOMERIC COATING AT DEFINED PORTION OF STADIUM PLASTER.

ALTERNATE #1

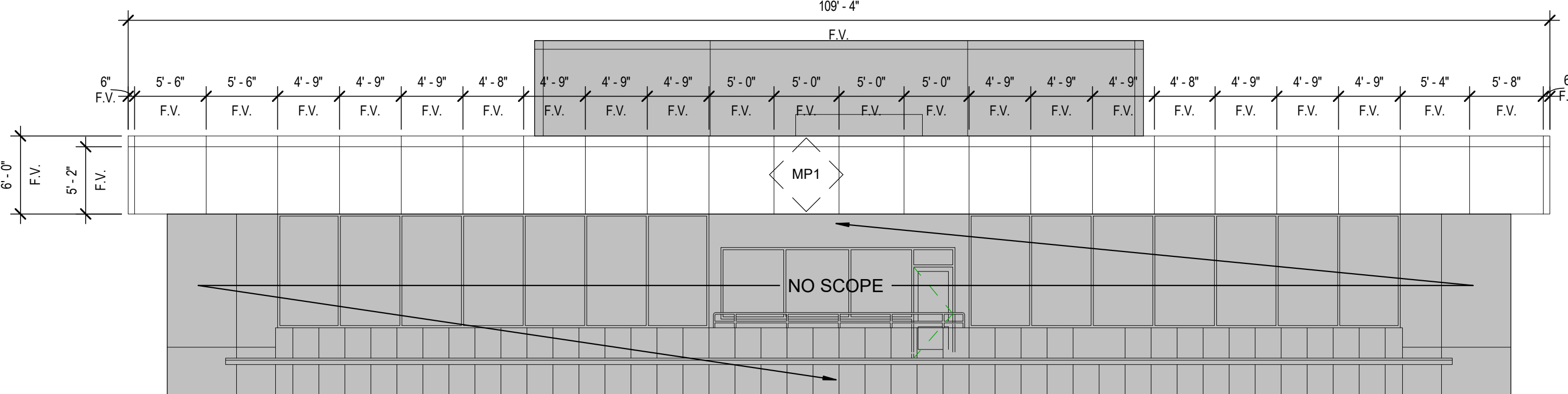
AS IDENTIFIED ON DRAWINGS, DEMO EXISTING ROOF DOWN TO INSULATION. REPAIR/REPLACE DAMAGED INSULATION. INSTALL NEW COVER BOARD AND NEW FULLY ADHERED (HOT ASPHALT) PVC MEMBRANE ROOFING SYSTEM AS SPECIFIED.



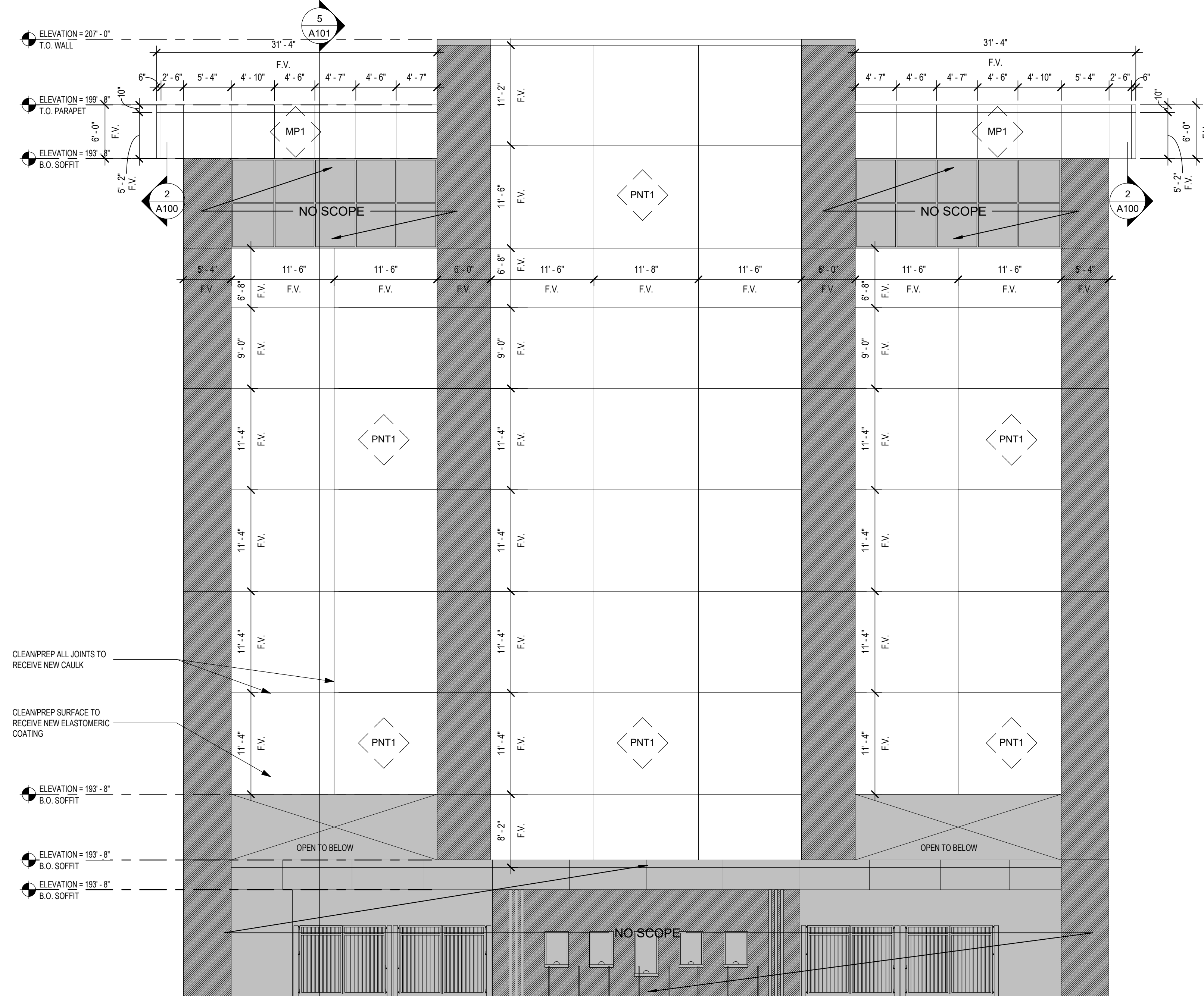
3 PRESSBOX - NORTH ELEVATION
1/8" = 1'-0"



4 PRESSBOX - SOUTH ELEVATION
1/8" = 1'-0"

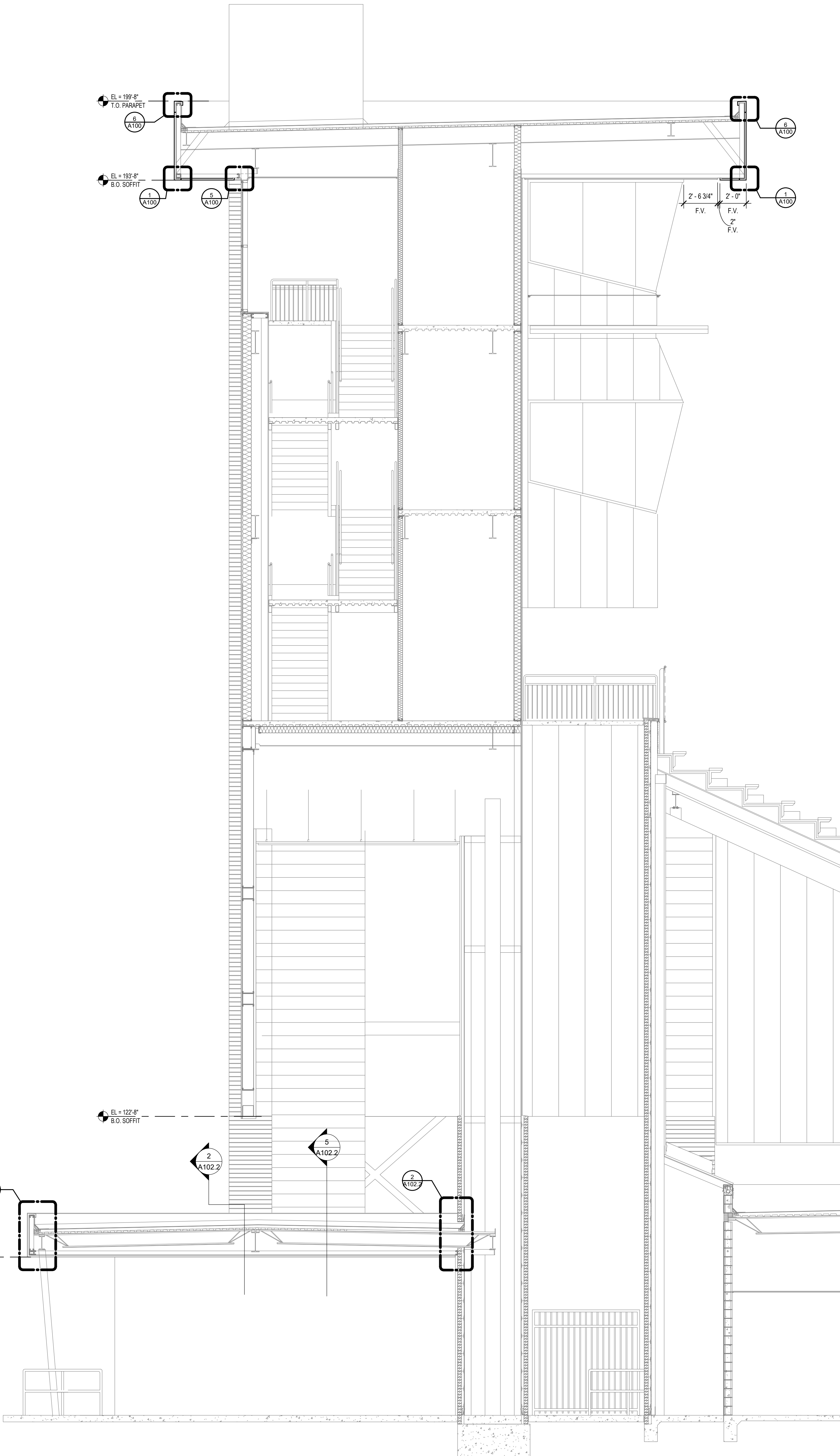


2 PRESSBOX - EAST ELEVATION
1/8" = 1'-0"

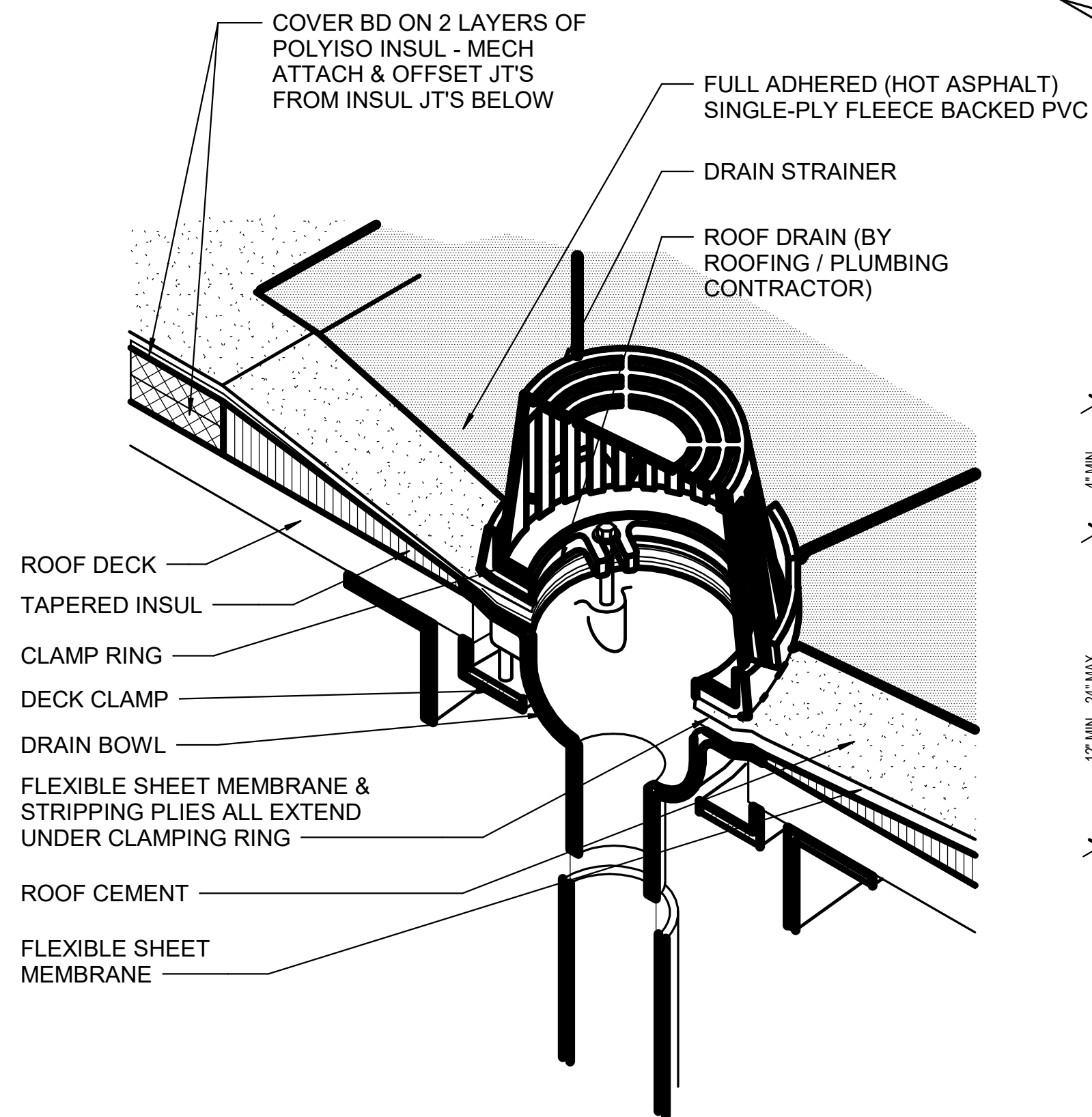


1 PRESSBOX - WEST ELEVATION
1/8" = 1'-0"

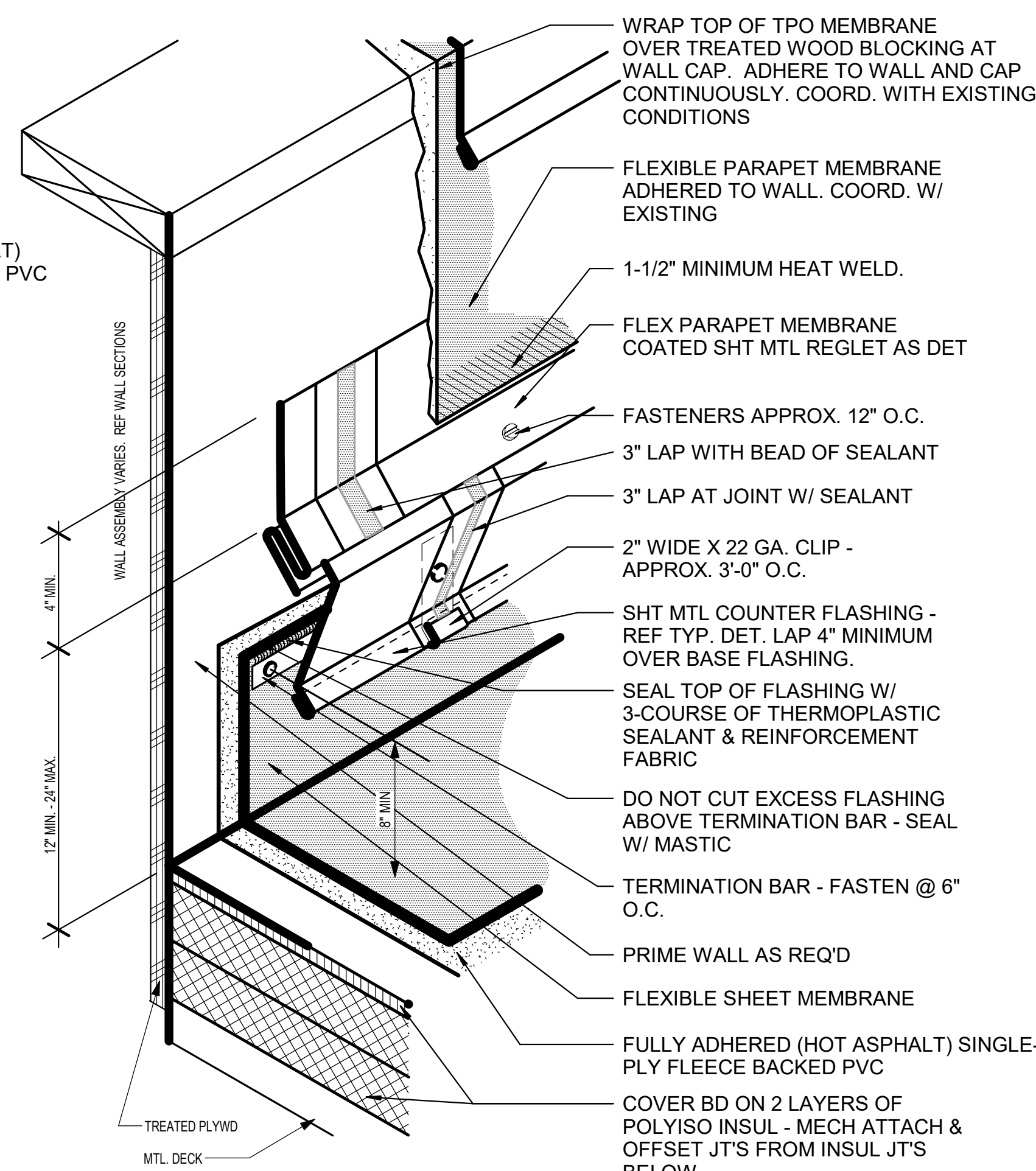
5 SECTION
1/4" = 1'-0"



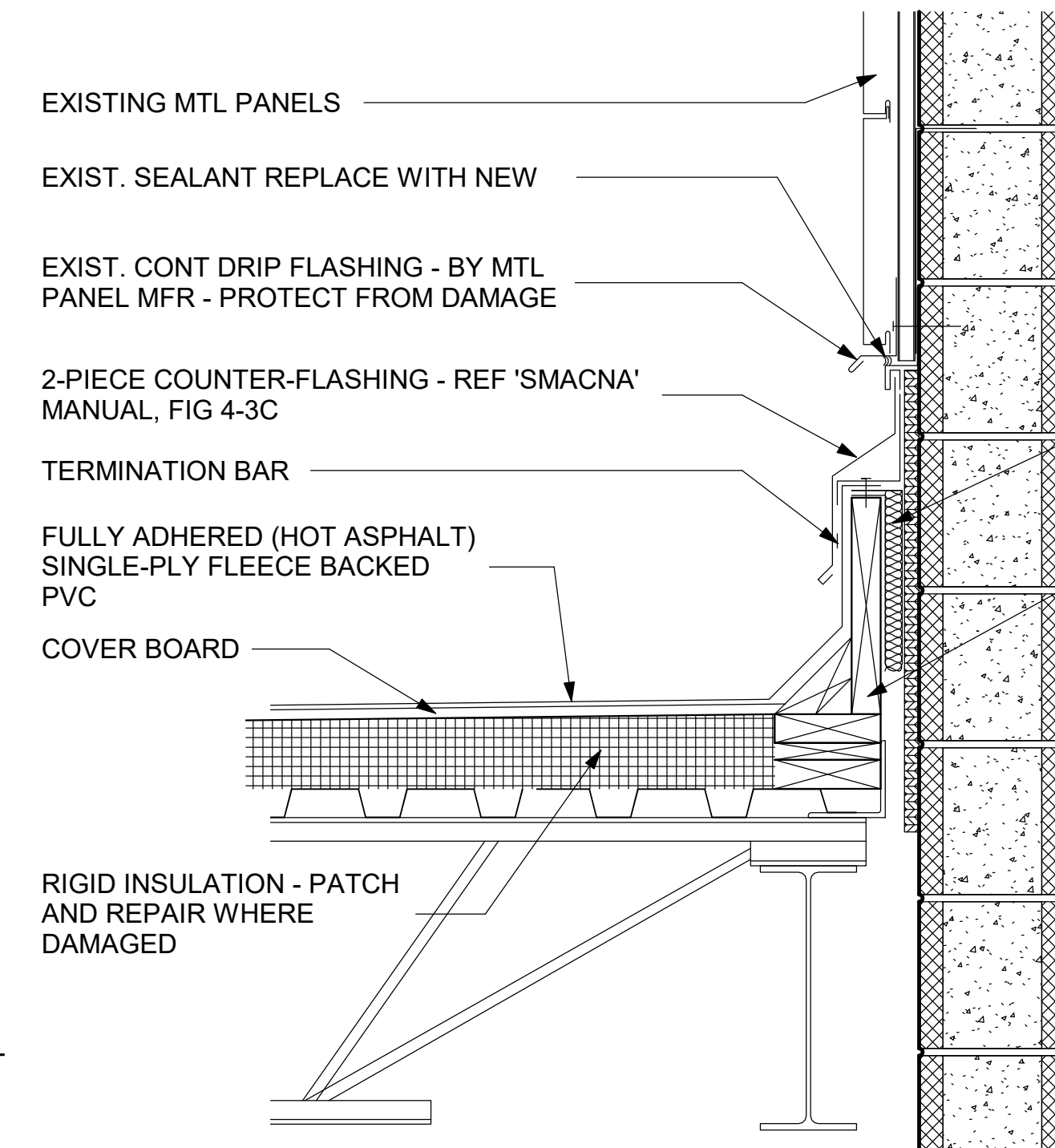
- ROOF DRAIN NOTES:
1. INSPECT ROOF DRAIN - RE-USE EXISTING CLAMPING RING, DRAIN BOWL, DECK CLAMP, HARDWARE AND DRAIN STRAINER - REPLACE WITH NEW WHERE DAMAGED.
 2. ROOF DRAIN AND OVERFLOW DRAIN TO BE THE SAME TYPE OF DRAIN W/ OVERFLOW ADJUSTABLE COLLAR FIELD VERIFY EXISTING CONDITIONS



8 ROOF DRAIN
3" = 1'-0"



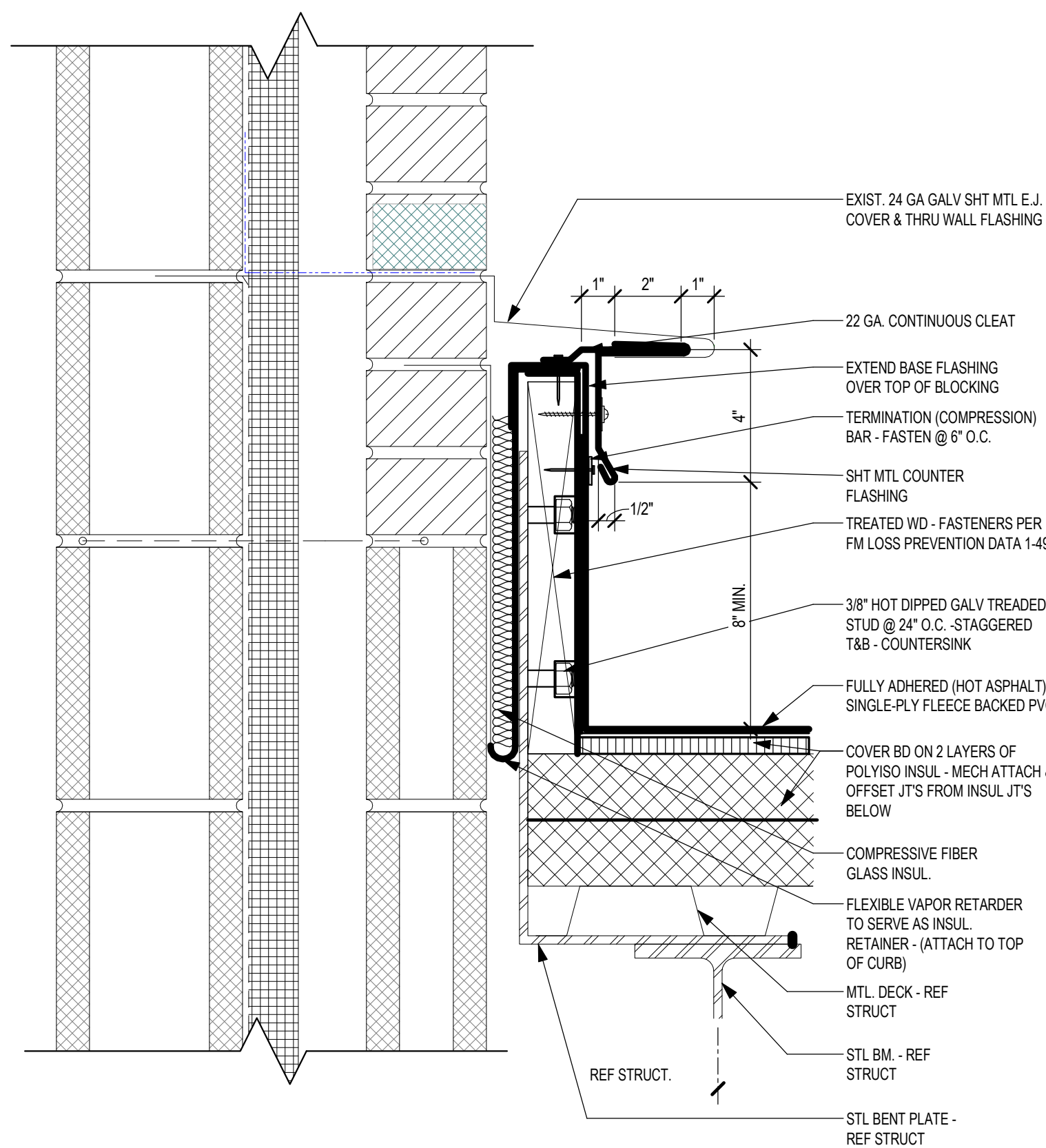
9 TYP BASE FLASHING @ PARAPET
3" = 1'-0"



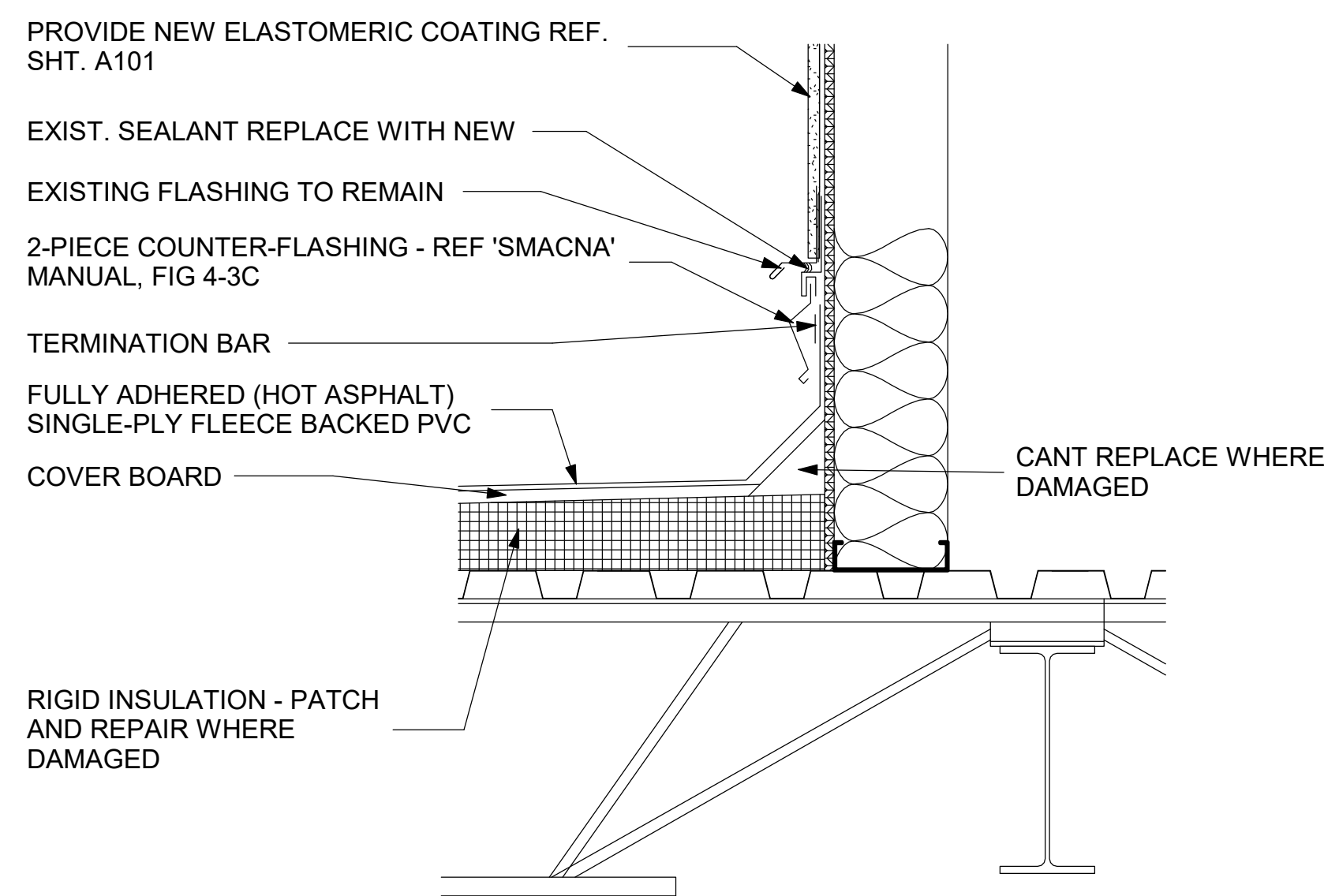
5 ROOF DETAIL - METAL PANEL
1 1/2" = 1'-0"

GENERAL ROOF NOTES

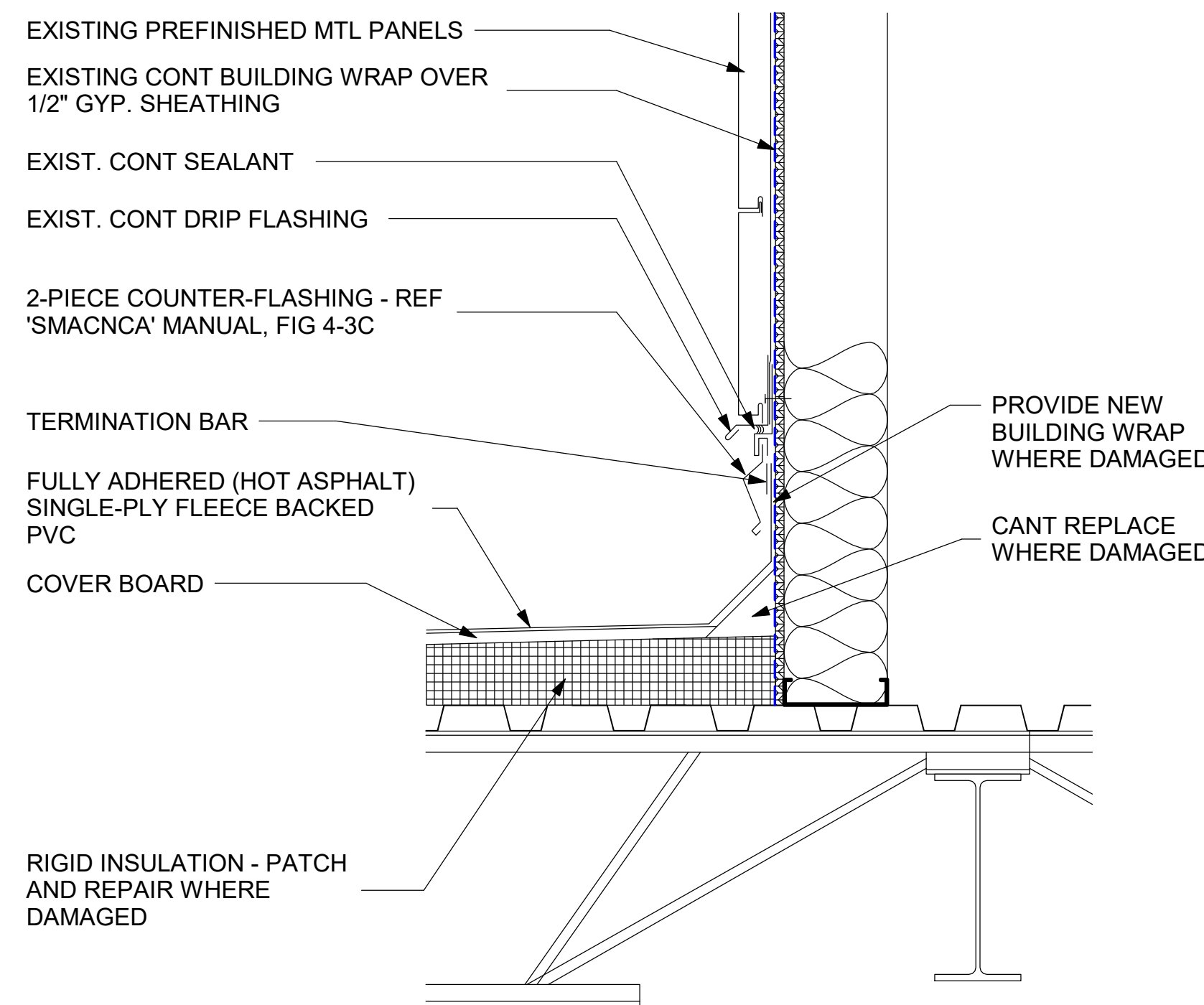
1. REFER TO ROOF PLAN FOR APPROXIMATE ROOFTOP AND MECH EQUIPMENT AND ADDITIONAL INFO, TYP.
2. PAINT ALL EXPOSED METAL FLASHING THAT IS NOT PREFINISHED. ALL PAINT TO MATCH EXISTING.
3. PROVIDE STEP FLASHING AND COVER PLATE AT SLOPED ROOF HI-LO CONDITIONS.
4. ALL WOOD BLOCKING AT ROOF EDGES, ETC. IS TO BE FABRICATED FROM CONT MIN 2X6 FR-BLOCKING, PROVIDE BIGGER 2X FR-BLOCKING AS REQD, PER DETAIL DIMENSIONS, TYP.
5. PROVIDE TAPERED INSULATION CRICKETS (1/2" PER FT MIN SLOPE) AT HIGH SIDE OF ALL MECH. UNITS AND MISC ROOF PENETRATIONS, TO SHED WATER AROUND, AND TO INSURE POSITIVE ROOF DRAINAGE, TYP. WHERE APPLICABLE.
6. PROVIDE SELF ADHERING MEMBRANE AT ALL EAVES, RAKES, ROOF EDGES, VALLEYS AND RIDGES. INTEGRATE THIS MEMBRANE INTO THE BUILDING WRAP UNDERLAYMENT.
7. PROVIDE WALKWAY PAD AT PIPE SUPPORT LOCATIONS. PAD SHALL BE MIN 2" WIDER THAN SUPPORT IN ALL DIRECTIONS.
8. FLASHING AND STRIPPING MATERIALS, BASE PLY SHEETS, AUXILIARY MEMBRANES, INSULATION AND ACCESSORIES SHOULD BE RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER FOR INTENDED USE AND COMPATIBILITY WITH THE MEMBRANE ROOFING SYSTEM U.O.N.
9. REMOVE/SALVAGE/REINSTALL METAL PANEL COPING AROUND PERIMETER OF TICKET BOOTH ROOF.
10. WRAP NEW ROOFING OVER TOP OF EXISTING PARAPET



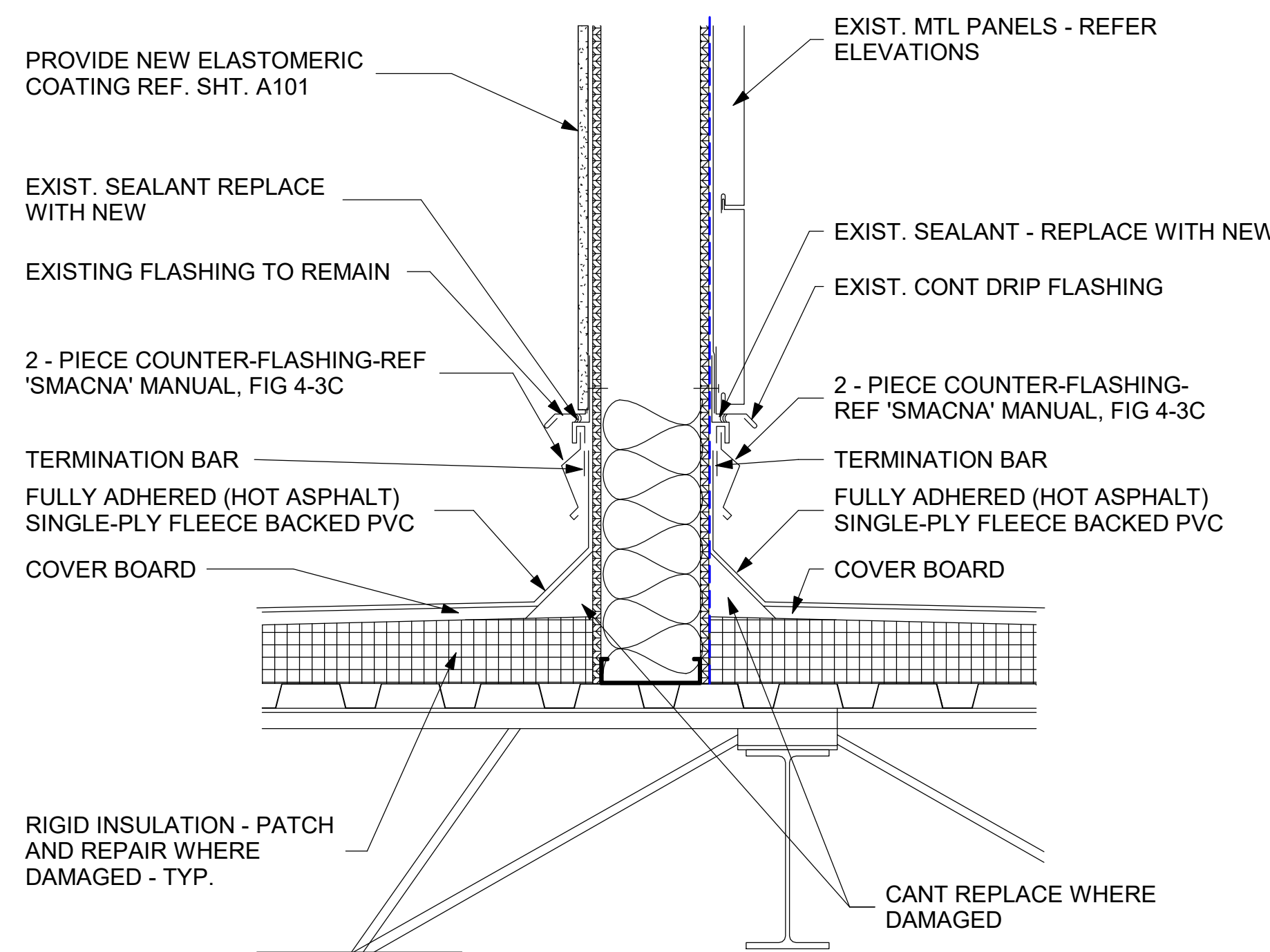
7 TYP ROOF E.J. @ WALL W/ MTL COVER
3" = 1'-0"



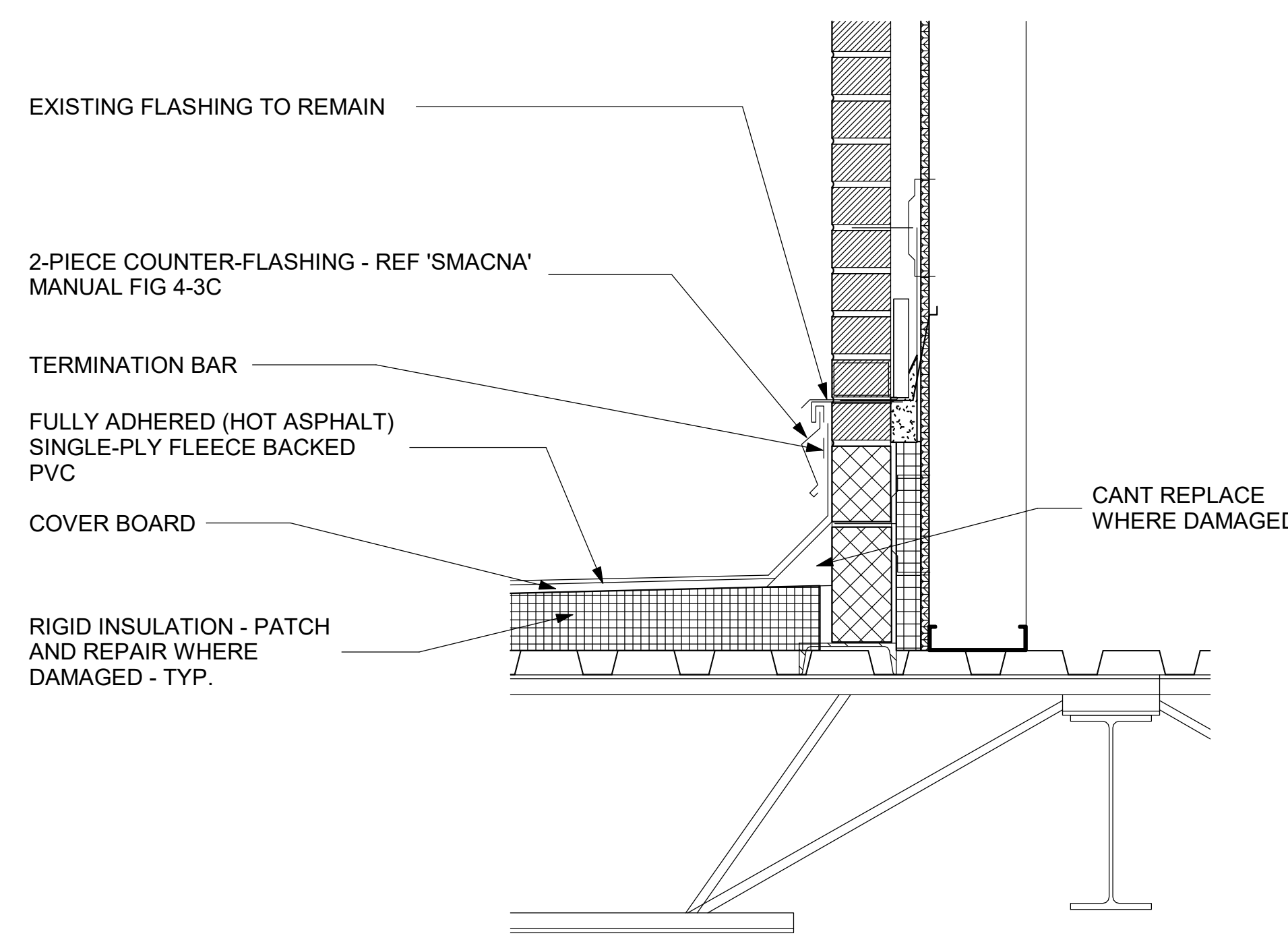
6 ROOF DETAIL - STUCCO FS
1 1/2" = 1'-0"



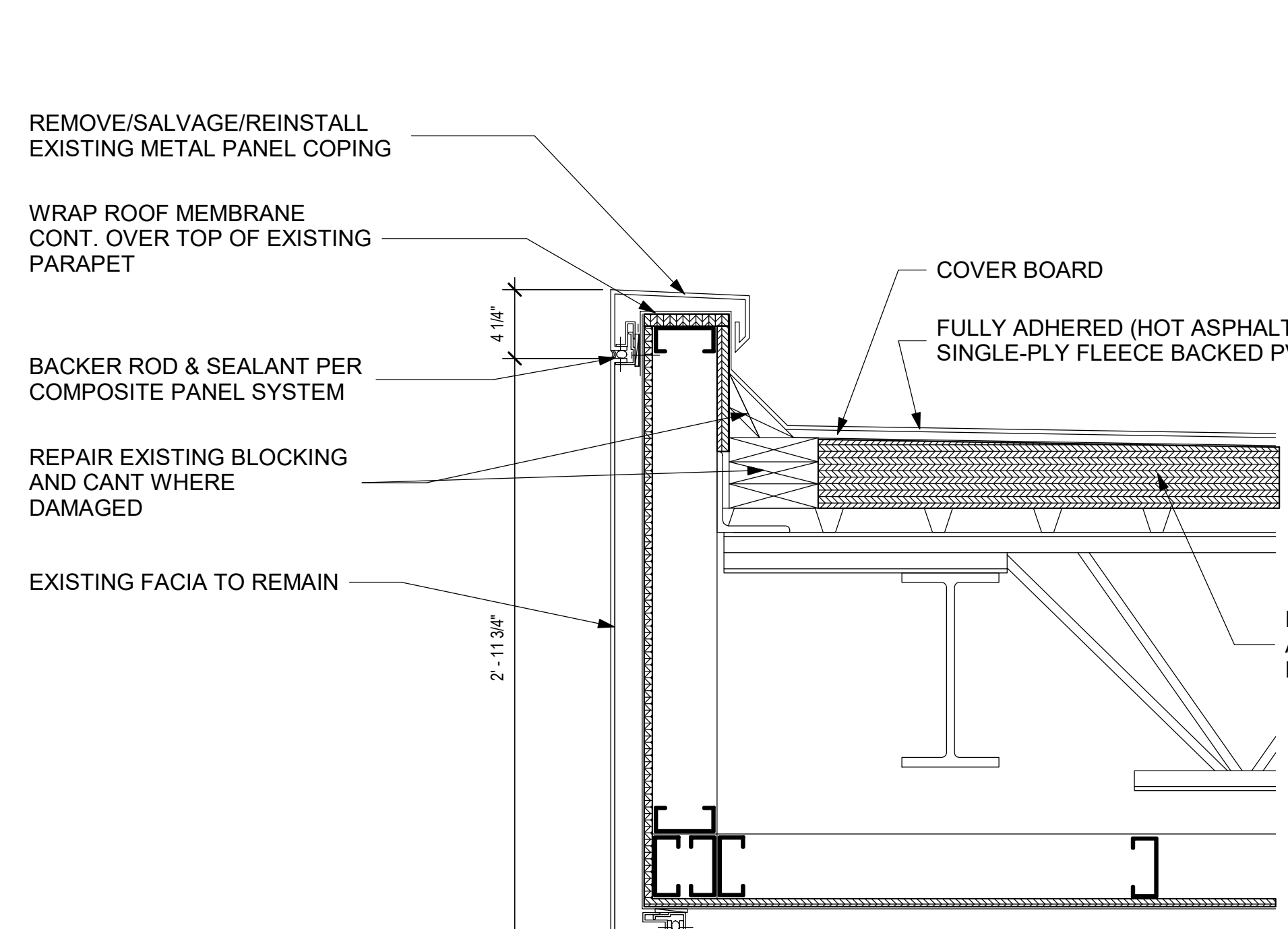
4 ROOF DETAIL - METAL PANEL
1 1/2" = 1'-0"



3 ROOF DETAIL - STUCCO / MTL. PANEL FS
1 1/2" = 1'-0"



2 ROOF DETAIL - MASONRY
1 1/2" = 1'-0"



1 ROOF DETAIL - LEVEL 1 TICKET BOOTH FS
1 1/2" = 1'-0"

SCOPE

BASE BID:

1. REPLACE METAL SOFFIT AND FASCIA PANELS AT PRESSBOX
2. ADD ELASTOMERIC COATING AT DEFINED PORTION OF STADIUM PLASTER.

ALTERNATE #1

AS IDENTIFIED ON DRAWINGS, DEMO EXISTING ROOF DOWN TO INSULATION. REPAIR/REPLACE DAMAGED INSULATION. INSTALL NEW COVER BOARD AND NEW FULLY ADHERED (HOT ASPHALT) PVC MEMBRANE ROOFING SYSTEM AS SPECIFIED.



STROHMEYER
ARCHITECTS INC.



ROCKWALL ISD
1050 WILLIAMS ST.
ROCKWALL, TX 75087
972-771-0605

FOR BIDDING AND CONSTRUCTION



ROCKWALL ISD -
WSM STADIUM -
METAL PANEL &
PLASTER REPAIR
PROJECT

1215 T L TOWNSEND DR.
ROCKWALL, TX 75087

Project Number: TBD
Drawing Date: 1.30.2026
Drawn: Author
Checked: Checker
Scale: As indicated

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Revisions:

#	Revision Date	Revision Description

Sheet Title:

ROOF PLAN
DETAILS -
ALTERNATE #1
(SINGLE PLY)

A102

SHIPPING LABEL

This label should be affixed to the outside of the package when submitted in response to this request.

FROM: _____

SHIP TO: Rockwall Independent School District
Attn: Jana Hunter, Director of Purchasing
1050 Williams Street
Rockwall, TX 75087

Package _____ of _____

CONTENTS: BID RESPONSE
BID NUMBER: RFCSP 2526.02-002
BID TITLE: Wilkerson Sanders Memorial Stadium Metal Panel and Plaster Project
BID DUE DATE: March 12, 2026
TIME DUE: 2:00 P.M. (CST)

-----FOLD OR CUT HERE-----

FROM: _____

SHIP TO: Rockwall Independent School District
Attn: Jana Hunter, Director of Purchasing
1050 Williams Street
Rockwall, TX 75087

Package _____ of _____

CONTENTS: BID RESPONSE
BID NUMBER: RFCSP 2526.02-002
BID TITLE: Wilkerson Sanders Memorial Stadium Metal Panel and Plaster Project
BID DUE DATE: March 12, 2026
TIME DUE: 2:00 P.M. (CST)

-----FOLD OR CUT HERE-----



OFFER FORM

This form should serve as the cover to all responses; failure to sign may result in disqualification.

Bid Number and Title: RFCSP 2526.02-002 WS Memorial Stadium Metal Panel and Plaster
Submittal Due Date and Time: March 12, 2026 – 2:00 P.M. (CST)
Submittal Address: Rockwall Independent School District
 Jana Hunter, Director of Purchasing
 1050 Williams Street
 Rockwall, Texas 75087

The undersigned authorized representative of the responding company indicated below hereby acknowledges;

- That he/she is authorized to enter into contractual relationship on behalf of the responding company indicated below;
- That he/she has carefully examined this document in its entirety;
- That he/she proposes to supply any products/services submitted under this solicitation at the prices quoted and in strict compliance with all terms, policies and procedures, unless any exceptions are noted;
- That any all and all exceptions have been noted in writing in the response and that no other exception will be claimed;
- The accuracy of all certifications which accompany this offer;
- The stated organization is an equal opportunity employer;
- That the organization has not been a party to any collusion among offer/vendors in restraint of freedom of competition by agreement to offer at a fixed price or to refrain from offering; or with any RISD employee, Board Trustee, or consultant as to quantity, quality, or price in the prospective contract, or in any terms of the prospective contract except in any authorized discussion(s) with RISD's Purchasing personnel; or in any discussions or actions between offer/vendors and any RISD employee, Board Trustee, or consultant concerning exchange of money or other things of value for special consideration in the award of this contract.
- That the prices in this offer have been determined independently, without consultation, communication, or agreement for the purpose of restricting competition, as to any matter related to such prices, with any other vendor or with any competitor;
- That notice of award and/or any communication regarding an award will be submitted via RISD and not by any consultant, contractor or other party involved in this solicitation.
- Receipt of Addenda, or lack thereof:

None: _____ (initial)

1: _____ (initial)

3: _____ (initial)

2: _____ (initial)

#4: _____ (initial)

Name of Company:	Date:
Signature of Authorized Rep:	Printed Name:
Position or Title:	Phone:
Email:	Fax:



RESPONDENT'S PROPOSAL

The undersigned has carefully examined the Request for Proposals, Contract Documents, Conditions of the Contract, the Specifications, the Drawings and any addenda to the Drawings and Specifications, the site, premises and all conditions affecting the work on the project listed above as prepared by Rockwall ISD. The undersigned proposes to furnish all labor, materials, services and equipment necessary to complete the entire work in strict accordance with the above documents for the following sum:

<u>Description</u>	<u>LS</u>	<u>Amount</u>
Based Bid:- Base scope as Identified in Construction Documents	1	
Owner's Contingency	1	\$35,000.00
Alternate Bid: Alternate scope as Identified in Construction Documents	1	
TOTAL BID:		

Respondent's (Company) Name: _____

Signature: _____

Title: _____



VENDOR DATA

FOR PURCHASE ORDER: ORDERING ADDRESS INFORMATION		
Company Name:		
Address:		
City, State, Zip:		
Contact Person:		
Title:		
Phone Fax:		
Email address:		
May we submit orders via email:		
Email address, if different:		

FOR PAYMENTS: REMITTANCE ADDRESS INFORMATION		
Company Name:		
Address:		
City, State, Zip:		
Contact Person:		
Title:		
Phone Fax:		
Email address:		

FOR BID NOTIFICATIONS	
Contact Email:	

COOPERATIVE AGREEMENTS												
<i>If the vendor holds a contract with any of the following, please circle and provide contract number(s) as applicable.</i>												
Allied States	Choice Partners	CTPA	DIR	E&I	EPIC6	EPCNT	HGAC	Omnia Partners	PACE	Tarrant County	TASB Buy Board	TIPS
Contract Number(s):												



REFERENCE SHEET
DO NOT LEAVE BLANK

REFERENCE 1

School District Name:		
Contact Name:		
Address:		
Phone Fax:		
Email Address:		

REFERENCE 2

School District Name:		
Contact Name:		
Address:		
Phone Fax:		
Email Address:		

REFERENCE 3

School District Name:		
Contact Name:		
Address:		
Phone Fax:		
Email Address:		

**Please note: Some projects may require more attention to be given to historical projects of like scope, type, location, institute, etc. While it is not a requirement, the District prefers references be given for school districts of similar size to Rockwall ISD and the district may evaluate responses as a whole, based on references provided.*



VENDOR ACKNOWLEDGEMENTS

RESIDENT BIDDER

A governmental entity may not award a governmental contract to a nonresident bidder unless the nonresident bidder underbids the lowest bid submitted by a responsible resident bidder by an amount that is not less than the great of the following (1) the amount by which a resident bidder would be required to underbid the resident bidder to obtain a comparable contract in the state in which the nonresident's principal place of business is located; or (2) the amount by which a resident bidder would be required to underbid the nonresident bidder to obtain a comparable contract in the state in which a majority of the manufacturing relating to the contract will be performed.

A governmental entity may not award a governmental contract to a nonresident bidder unless the nonresident underbids the lowest bid submitted by a responsible resident bidder by an amount that is not less than the amount by which a resident bidder would be required to underbid the nonresident bidder to obtain a comparable contract in (1) the state in which the nonresident's principal place of business is located; or (2) a state in which the nonresident is a resident manufacturer.

This subchapter does not apply to a contract involving federal funds.

FELONY CONVICTION AND CRIMINAL HISTORY NOTICE

Texas Education Code, Section 44.034, Notification of Criminal History, Subsection (a), states, "a person or business entity that enters into a contract with a school district must give advance notice to the District if the person or owner or operator of the business entity has been convicted of a felony." The notice must include a general description of the conduct resulting in the conviction of a felony. Subsection (b) states, "a school district may terminate a contract with a person or business entity if the district determines that the person or business entity failed to give notice as required by Subsection (a) or misrepresented the conduct resulting in the conviction." The district must compensate the person or business entity for services performed before the termination of the contract. Vendor is responsible for the performance of the persons, employees and/or sub-contractors. Vendor assigns to provide services for Rockwall ISD pursuant to this proposal on any and all Rockwall ISD campus or facilities. Vendor will not assign individuals to provide services at a Rockwall ISD campus or facility who have a history of violent, unacceptable, or grossly negligent behavior or who have a felony conviction, without the prior written consent of the Rockwall ISD Purchasing Department.

CONFIDENTIALITY DECLARATION

Any portion of the response considered to be confidential or contain proprietary information, or to contain trade secrets, must be marked accordingly. This designation may not necessarily guarantee the non-release of the information under the Public Information Act or as otherwise required by law, but does provide the District with a means to review the issues thoroughly and, if justified, request an opinion by the Attorney General's office prior to releasing any information requested under the Public Information Act.

INTER-LOCAL AGREEMENTS WITH OTHER SCHOOL DISTRICTS

Rockwall ISD is a member of the Central Texas Purchasing Alliance (CTPA) and the Education Purchasing Cooperative of North Texas (EPCNT), each serving as an alliance of over 100 school districts in Texas representing millions of students, sharing information, services and contractual opportunities. A list of member districts can be found on the RISD Purchasing webpage.

In support of this collaborative effort, all awards made by Rockwall ISD may be adopted by other active member districts in either (or both) of the identified entities. By adopting a contract from another member district, the adopting district has met the competitive bidding requirements established by the Texas Education Code, Section 44.031 (a)(4). While there is no obligation to participate, doing so will streamline the public purchasing process and cut costs to the public. It will also keep vendors from having to answer multiple bids for many school districts for the same product(s) or services, thereby saving the vendors resources.

All purchases by members and participants other than Rockwall ISD will be billed directly to that entity and paid by that entity. Rockwall ISD will not be responsible for another entity's debts. Each governmental entity will order its own materials/services as necessary and according their policies.



COMMITMENT TO PROVIDE INSURANCE

Bidder will be able to furnish a valid insurance certificate reflecting as Certificate Holder: Rockwall ISD, 1050 Williams Street, Rockwall TX 75087. The vendor shall provide and maintain insurance in a company rated no less than an "A" by A.M. Best Company.

Vendor is aware of all costs to provide insurance, will do so pending contract award, and will provide a valid insurance certificate as describe within this solicitation.

DEBARMENT OR SUSPENSION CERTIFICATION

Non-Federal entities are prohibited from contracting with or making sub-awards under covered transaction to parties that are suspended or debarred or whose principals are suspended or debarred. Covered transactions include procurement of goods or services equal to or in excess of \$100,000. Vendors receiving individual awards of \$100,000 or more and all sub-recipients must certify that the organizations and its principals are not suspended or debarred.

INDEMNIFICATION AND HOLD HARMLESS

Except as otherwise expressly provided, respondent shall defend, indemnify and hold RISD harmless from and against all claims, liability, loss and expenses, including reasonable costs, collection expenses, and attorney's fees incurred, which arise by reason of the acts or omissions of respondent, its agents or employees in the performance of its obligation under this contract.

STATEMENT OF COMPLIANCE/DEVIATION

Unless otherwise stated, this proposal complies with all specifications and/or scope of work contained in the solicitation document. Any deviations from any part of this solicitation shall be listed on a separate page as provided by the respondent with detailed conditions and information. RISD will consider any deviations in its evaluation, and reserves the right to accept or reject any bid based upon any deviations.

CONTRACTOR CERTIFICATION

If an employee of a contractor is covered under SB 9 the contractor must bear the burden of obtaining a national, fingerprint-based criminal history check. Under Section 22.0834 of the Education Code, the contractor is then required to certify to the district that the criminal history check has been performed. Under the statute SB 9, a contractor is required to conduct a criminal history review on an employee only when the following criteria has been met: 1) The employer has contracted with the district to provide services. 2) The particular employee will have continuing duties relating to the contract with the district. 3) The particular employee will have contact with students.

TOXIC CONTROL COMPLIANCE

Rockwall Independent School District has established Management Plans for ensuring a high level of environmental air quality through its Operations Department. All contractors performing construction projects for RISD must familiarize themselves with these Management Plans and comply prior to the beginning of any awarded construction project. RISD employees are available to review such plans and assist in interpretation and understanding its Asbestos Management Plans at any time prior to beginning construction.

Certification of non-use of Asbestos and Lead Containing Materials is required by all General and Sub-Contractors for all construction projects, by State and Federal regulations which RISD is subject to. Completion of this Affidavit is mandatory before final payment on a project will be made. Complete this certificate, have it notarized and submit it with your application for final payment, certifying that no materials used in conjunction with this project contain asbestos or lead in any form and that all Material Safety Data Sheets (MSDS) have been supplied to Owner before submitting application for final payment.

MWBE/HUB CERTIFICATION

A bidder/proposer that has been certified as a Minority/Women Business Enterprise (also known as "Historically Underutilized Business" or "HUB") is encouraged to indicate its MWBE certification status when responding to this Bid/Proposal. If so, please provide the Certificate Number and Name of Certifying Agency.



CERTIFICATION OF EQUAL EMPLOYMENT STATEMENT

It is the policy of the District not to discriminate on the basis of race, color, national origin, gender, limited English proficiency or handicapping conditions in its programs. Vendor agrees not to discriminate against any employee or applicant for employment to be employed in the performance of this Contract, with respect to hire, tenure, terms, conditions and privileges of employment, or a matter directly or indirectly related to employment, because of age (except where based on a bona fide occupational qualification), sex (except where based on a bona fide occupational qualification) or race, color, religion, national origin, or ancestry. Vendor further agrees that every subcontract entered into for the performance of this Contract shall contain a provision requiring non-discrimination in employment herein specified, binding upon each subcontractor. Breach of this covenant may be regarded as a material breach of the Contract.

CERTIFICATION OF SECTION 2271.002 TEXAS GOVERNMENT CODE

This section applies to a contract that: (1) is between a governmental entity and a company with 10 or more full-time employees; and (2) has a value of \$100,000 or more that is to be paid wholly or partly from public funds of the governmental entity. A governmental entity may not enter into a contract with a company for goods or services unless the contract contains a written verification from the company that it: (1) does not boycott Israel; and (2) will not boycott Israel during the term of the contract.

CERTIFICATION OF SECTION 2252 TEXAS GOVERNMENT CODE

This section applies to contracts with companies engaged in business with Iran, Sudan, or foreign terrorist organization is prohibited. A governmental entity may not enter into a governmental contract with a company that is identified on a list prepared and maintained under Section 806.051, 807.051 or 2252.153. The comptroller shall prepare and maintain, and make available to each governmental entity, a list of companies known to have contracts with or provide supplies and services to a foreign terrorist organization.

CERTIFICATION OF SECTION 2276 TEXAS GOVERNMENT CODE

This section applies only to a contract that (1) is between a governmental entity and a company with 10 or more full-time employees; and (2) had a value of \$100,000 or more that is to be paid wholly or partly from public funds of the governmental entity. Except as provided by Subsection (c), a governmental entity may not enter into a contract with a company for goods or services unless the contract contains a written verification from the company that (1) does not boycott energy companies; and (2) will not boycott energy companies during the term of the contract.

CERTIFICATION OF SECTION 2274 TEXAS GOVERNMENT CODE

This section applies only to a contract that: (1) is between a governmental entity and a company with at least 10 full-time employees; and (2) has a value of at least \$100,000 that is paid wholly or partly from public funds of the governmental entity. Except as provided by Subsection (c) and Section 2274.003, a governmental entity may not enter into a contract with a company for the purchase of goods or services unless the contract contains a written verification from the company that it: (1) does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association; and (2) will not discriminate during the term of the contract against a firearm entity or firearm trade association. Subsection (b) does not apply to a governmental entity that (1) contracts with a sole-source provider; or (2) does not receive any bids from a company that is able to provide the written verification required by that subsection.

CERTIFICATION OF SECTION 2273 TEXAS GOVERNMENT CODE

A governmental entity may not enter into a taxpayer resource transaction with an abortion provider or an affiliate of an abortion provider. This subsection does not apply to a taxpayer resource transaction that is subject to a federal law in conflict with Subsection (a) as determined by the executive commissioner of the Health and Human Services Commission and confirmed in writing by the Attorney General.

CERTIFICATION OF SECTION 2274 TEXAS GOVERNMENT CODE

A governmental entity may not enter into a contract or other agreement relating to critical infrastructure in this state with a company that is (1) owned by or the majority of stock or other ownership interest of the company is held or controlled by (a) individuals who are citizens of China, Iran, North Korea, Russia, or a designated country; (b) a company or other entity, including governmental entity, that is owned or controlled by citizens of or is directly controlled by the government of China, Iran, North Korea, Russia, or a designated country; or (2) headquartered in China, Iran, North Korea, Russia, or a designated country.



CONFLICT OF INTEREST

Effective January 1, 2006, any person or entity who contracts or seeks to contract with RISD for the sale or purchase of property, goods, or services (as well as agents of such persons) (hereafter referred to as Vendors) are required to file a Conflict of Interest Questionnaire with the District. Each covered person or entity who seeks to or who contracts with RISD is responsible for complying with any applicable disclosure requirements. Forms received by the District become public records immediately and the law requires school districts that maintain web sites to place these records on the District's web site.

The Conflict of Questionnaire must be filed no later than the seventh business day after the date that the vendor begins contract discussions or negotiations with the government entity, or submits to the entity an application, response to a request for proposal or bid, correspondence, or other writing related to a potential agreement with the entity.

The vendor also shall file an updated questionnaire not later than September 1 of each year in which a covered transaction is pending, and the seventh day after the date of an event that would make a statement in the questionnaire incomplete and inaccurate.

Note: A vendor is not required to file an updated questionnaire if the person had filed an updated statement on or after June 1, but before September 1 of the year.

Completed forms should be sent to Rockwall Independent School District Purchasing Department, 1050 Williams Street, Rockwall, Texas 75087. Forms are available from the Texas Ethics Commission website.

The Rockwall ISD website provides a list of Local Government Officers, Superintendent and other Personnel

IRS FORM W9

This is a required form by the IRS for government entities that pay vendors in excess of \$600.00 annually in order to issue a 1099 form and is required in conjunction with the reporting requirements by the Internal Revenue Service.

Please include a current W9 with vendor's response.

Vendor affirms they have read all certifications as described in this section and agrees to comply with all federal, state, and local laws, rules, regulations and ordinances, as applicable. It is further acknowledged the vendor certifies compliance with all provisions, laws, acts, regulations, etc. as specifically noted.

Company Name:	
Federal Tax ID #:	
City, State, Zip:	
Phone Number:	
Printed Name of Authorized Representative:	
Title of Authorized Representative:	
Email Address:	
Signature of Authorized Representative:	
Date Signed:	



**ROCKWALL INDEPENDENT SCHOOL DISTRICT
STANDARD FORM OWNER/CONTRACTOR AGREEMENT
WSM Stadium - Metal Panel & Plaster Repair Project**

**ROCKWALL INDEPENDENT SCHOOL DISTRICT
STANDARD FORM OWNER/CONTRACTOR AGREEMENT
WSM Stadium - Metal Panel & Plaster Repair Project**

THIS AGREEMENT made and entered into on <Month>, <Year> by and between the **Rockwall Independent School District** called “**District**,” and (Insert Name), herein called “**Contractor**.”

The Owner’s authorized representative is:

David Carter, CPA
Senior Chief Financial Officer
Rockwall Independent School District
1050 Williams Street
Rockwall, TX 75087
Phone number: (469) 698-7149

The term “Owner” means the Rockwall Independent School District or the Owner’s authorized representative.

And the Contractor is: (Insert Name)
(Insert Address)
(Insert Address)

The Contractor’s authorized representative is: (Insert Name and Title)

Phone number: (Insert Contact Number)

The Project is:

RFCSP 2526.XX-XXX

This project is to replace existing metal panels and select stucco on the home side of Wilkerson-Sanders Memorial Stadium. This project also includes an alternate for roofing of the ticket booth.

WITNESSETH:

The Owner and Contractor agree as follows:

I. THE CONTRACT DOCUMENTS.

The Contract Documents consist of this Standard form Owner/Contractor Agreement (the "Agreement"), all sections of the Project Manual, including Drawings, Specifications, and Addenda issued prior to execution of this Agreement, the Owner's Request for Proposals and Contractor's Proposal documents submitted in response to such Request, modifications to the Agreement issued and agreed to by the parties subsequent to the execution of this Agreement, and other documents as may be listed in this Agreement. A Modification is (1) a written amendment to the Agreement signed by both parties, (2) a Change Order, (3) a Construction Change Directive or (4) a written order for a minor change in the work issued by the Owner, and Architect, all of which must be signed by the parties. The Project Manual is a volume assembled for the work that is to be done on or relating to the Project (the "Work") which includes the bidding requirements, sample forms, Conditions of the Contract and Specifications.

In the event of conflict, terms and conditions contained in this Agreement shall take precedence over terms and conditions contained in the Project Manual, and the terms and conditions in the Project Manual, shall take precedence over all other terms and conditions contained in the other Contract Documents, unless specifically agreed otherwise herein.

The Contract Documents form the Contract for Construction (the "Contract"). The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral. The Contract may be amended or modified only by a written Modification signed by Contractor, approved by Owner's Board of Trustees, and signed by the representative of Owner's Board of Trustees who is authorized to sign contracts. As a material consideration for the making of the Contract, modifications to the Contract shall not be construed against the maker of said modifications. The Contract Documents shall not be construed to create a contractual relationship of any kind (1) between the Contractor and the Architect or the Architect's consultants, (2) between the Owner and a Subcontractor or a Sub-subcontractor, (3) between the Owner and the Architect or the Architect's consultants or (4) between any persons or entities other than the Owner and the Contractor.

II. DATE OF COMMENCEMENT, FINAL COMPLETION, AND LIQUIDATED DAMAGES.

A. The date of commencement is the date to be fixed in a written Notice to Proceed (NTP) issued by the Owner, which shall be not later than March 24, 2026. The NTP date is dependent upon the awarded contractor returning executed contracts and insurance/bonds, if required, prior to this date.

B. The Contractor shall achieve Final Completion of the entire Project not later than July 24, 2026, subject to adjustments as provided in the Contract.

C. The Contractor and his surety or sureties shall be liable for and shall pay to the Owner the sum of \$1,000.00 per day as fixed, agreed and liquidated damages for each calendar day after the date specified in Paragraph 2(b), as adjusted by written amendment, until Final Completion of the Project. The amount of damage to the Owner for delay in completion of the Project is difficult to ascertain and the amount of liquidated damages per calendar day is reasonable anticipated pecuniary damages for such delay and is not a penalty. Neither an extension of time nor the collection of liquidated damages shall limit or exclude any other right or remedy of the Owner under provisions of the Contract.

III. CONTRACT SUM.

The Owner shall pay the Contractor for the Contractor's full performance of the Contract, the Contract Sum of **(Insert Contract Amount)** (the "Contract Sum") subject to additions, deductions and/or liquidated damages as provided in the Contract.

The Contract Sum contains an Owner's Contingency in the amount of \$35,000.00. This contingency is for the sole use of the Owner to be used for changes in the scope of the Work and for the betterment of the Project. Owner's authorized representative may approve any expenditure from Owner's Contingency without further Board of Trustees approval. If the Owner's Contingency is not expended or not fully expended, then any unused portion shall belong to the Owner and shall be credited to the Owner in calculating final payment.

IV. PROGRESS PAYMENTS.

A. Based upon Applications for Payment submitted to the Owner by the Contractor, the Owner will make progress payments as provided below.

B. Provided an Application for Payment is received and approved by the Owner not later than the twentieth (20th) day of a month, the Owner will make payment of the amount due, less five percent (5%) retainage, to the Contractor not later than the tenth (10th) day of the following month. If an Application for Payment is received by the Owner after the application date fixed above, payment in such amount as determined by Owner will be made by the Owner not later than fifty-one (51) days after the Owner receives and approves the Application for Payment.

C. Based on the Owner's observations and evaluations of the Project and the Contractor's Applications for Payment, the Owner will determine the amounts due to Contractor. If Owner determines, in Owner's reasonable discretion, that Contractor's Application for Payment contains discrepancies and/or errors, then Contractor shall resubmit said Application for Payment and the timeframe set forth in Section IV(B) above shall restart and apply from the date of resubmittal.

D. Any payment for undisputed amounts not paid in the time specified in paragraph 4.b. above shall be overdue. An overdue payment bears interest at the legal rate established by the Texas Government Code, §2251.025.

V. FINAL PAYMENT.

A. Final payment, constituting the entire unpaid balance of the Contract Sum (less any offsets or damages as provided in the Contract Documents), will be made by the Owner when:

1. the Contract has been fully performed by the Contractor as determined by Owner and Owner's Architect, and
2. the completed Project has been accepted by the Rockwall ISD Board of Trustees or its designee.

B. Neither final payment nor any remaining retained percentage shall become due until the Contractor submits to the Owner:

1. an affidavit that payrolls, bills for materials and equipment, and other indebtedness connected with the Project have been paid or otherwise satisfied,
2. a certificate evidencing that the required insurance will remain in force after final payment and will not be cancelled or allowed to expire until at least 30 days' prior written notice has been given to the Owner,
3. a written statement that the Contractor knows of no substantial reason that the insurance will not be renewable to cover the period required by the Owner,
4. consent of surety to final payment,
5. other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by the Owner, and
6. written warranties and other documents required by the Contract and submitted to the Owner's Superintendent of Schools.

C. Acceptance of final payment by the Contractor shall constitute a waiver of all claims by the Contractor, except those previously made in writing and identified by the Contractor as unsettled at the time of final Application for Payment.

VI. OBLIGATIONS OF CONTRACTOR.

A. REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR.

Before ordering materials or equipment or commencing the Project, the contractor shall carefully:

1. study and compare the Contract Documents with each other and with other information furnished by Owner,

2. verify all indicated dimensions,
3. take field measurements,
4. verify field conditions, and
5. compare the field measurements and conditions and other information known to the Contractor with the Contract Documents, and verify that there are no impediments to the Project being constructed at the proposed site.

Errors, inconsistencies or omissions discovered shall be reported in writing to the Architect and Owner at once. In the event that discrepancies occur between ordered material and actual conditions, of which the Architect and Owner were not notified beforehand, costs to correct such discrepancies shall be borne by Contractor.

B. SUPERVISION AND CONSTRUCTION PROCEDURES.

1. The Contractor shall supervise and direct the Project, using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Project under the Contract, unless the Contract gives other specific instructions concerning these matters.
2. The Contractor shall be responsible to the Owner for acts and omissions of the Contractor's employees, Subcontractors and their agents and employees, and other persons performing portions of the Project under a contract with the Contractor.
3. On trench excavations in excess of five feet in depth, Contractor shall bear sole responsibility for design and execution of acceptable trenching and shoring procedures as may be required by law, including but not limited to Texas Government Code §2166.303, Texas Health & Safety Code, Subchapter C, §756.021, *et seq.*, and OSHA 1926.652-.653. Contractor shall pay a qualified engineer to prepare detailed plans and specifications directing Contractor in safe execution of trenching and shoring.

C. LABOR AND MATERIALS.

1. Unless otherwise provided in the Contract, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for proper execution and completion of the Project, whether temporary or permanent and whether or not incorporated or to be incorporated in the Project.
2. The Contractor shall enforce strict discipline and good order among the Contractor's employees and other persons carrying out the Contract. The Contractor shall not permit employment of unfit persons or persons not skilled in tasks assigned to them. As part of that responsibility, Contractor shall enforce the Owner's alcohol-free, drug-free, tobacco-free, and weapon-free policies and zones, which will require compliance with

those policies and zones by Contractor's employees, Subcontractors, and all other persons carrying out the Contract. Contractor shall also require adequate and appropriate dress of Contractor's employees, Subcontractors, and all other persons carrying out the Contract.

Contractor further agrees to submit any of its employees, agents, subcontractors or sub-subcontractors or their respective employees and agents, who meet the requirements of a covered employee under Texas Education Code §22.0834, to national criminal history checks or, alternatively, agrees to keep such employees and agents from having any direct contact with students of Owner. Failure to comply with the requirements of Texas Education Code §22.0834 shall constitute an immediate event of default by Contractor. Further, Contractor shall complete the "Contractor Certification" attached hereto as Exhibit "A" before beginning any Work that is the subject of this Agreement.

3. Contractor shall at all times maintain job records, including, but not limited to, invoices, payment records, payroll records, daily reports, logs, diaries, and job meeting minutes, applicable to the Project. Owner reserves the right to audit contractor's books and records relevant to all services provided under the Contract Documents. In the event such audit reveals any errors resulting in overpayments by the Owner, Contractor shall refund Owner the full amount of such overpayment within thirty (30) days of such audit findings, or the Owner, at its option, reserves the right to withhold such amounts owing the Owner from any payments due the Contractor. Contractor shall make such reports and records available to inspection or audit by the Owner and/or its agents within five (5) working days of request by Owner or its agent. Such records shall be maintained by Contractor for at least four (4) years.

D. WARRANTY.

The Contractor warrants to the Owner that materials and equipment furnished under the Contract will be of good quality and new unless otherwise required or permitted by the Contract, that work on the Project shall be performed in a good and workmanlike manner, that the Project will be free from defects not inherent in the quality required or permitted, and that the Project will conform with the requirements of the Contract. The contractor shall furnish the Contractor's warranty covering material and workmanship for a period of one year from the commencement date of the substantial completion. Manufacturer's material warranties shall be as issued by each manufacturer and provided in the close-out documentation.

E. TAXES.

The Owner qualifies for exemption from State and Local Sales Tax pursuant to the provisions of Chapter 151 of the Tax Code of the State of Texas. The Contractor may claim exemption from payment of applicable State and Local Sales Taxes by complying with such procedures as may be prescribed by the State Comptroller of Public Accounts. However, the Contractor shall pay all necessary local, county and state taxes, compensation tax, social security and withholding payments as required by law. **THE CONTRACTOR SHALL INDEMNIFY AND SAVE HARMLESS THE OWNER OF AND FROM ALL**

CLAIMS AND DEMANDS MADE BY FAILURE OF THE CONTRACTOR OR SUBCONTRACTORS TO COMPLY WITH THE PROVISIONS OF ANY OR ALL SAID LAWS AND AMENDMENTS.

F. PERMITS, FEES AND NOTICES.

1. The Contractor shall secure and pay for the building permit and other permits, governmental fees and licenses necessary for proper execution and completion of the Project which are customarily secured after execution of the Contract and which are legally required when bids are received or negotiations concluded.
2. The Contractor shall comply with, give notices and provide certifications as may be required by applicable laws, ordinances, rules, regulations and lawful orders of public authorities bearing on performance of the Project including, but not limited to, 19 T.A.C. §61.1036.

G. USE OF SITE.

The Contractor shall confine operations at the site to areas permitted by law, ordinances, permits and the Contract, as designated by the Owner, and shall not unreasonably encumber the site with materials or equipment.

H. CLEANING UP.

The Contractor shall keep the premises and surrounding area free from accumulation of waste materials or rubbish caused by operations under the Contract. At completion of the Project the Contractor shall remove from and about the Project waste materials, rubbish, the Contractor's tools, construction equipment, machinery and surplus materials. If the Contractor fails to clean up as provided in the Contract, the Owner may do so and the cost thereof shall be charged to the Contractor and may be offset against any amounts still owed to the Contractor.

I. INDEMNIFICATION.

TO THE FULLEST EXTENT PERMITTED BY LAW, THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, ITS TRUSTEES, AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING BUT NOT LIMITED TO, ATTORNEYS' FEES, ARISING OUT OF OR RESULTING FROM CONSTRUCTION OF THE PROJECT, BUT ONLY TO THE EXTENT CAUSED IN WHOLE OR IN PART BY ACTS OR OMISSIONS OF THE CONTRACTOR, A SUBCONTRACTOR, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THE CONTRACTOR OR SUBCONTRACTORS OR ANYONE ELSE FOR WHOSE ACTS THEY MAY BE LIABLE, UNLESS SUCH CLAIM, DAMAGE, LOSS OR EXPENSE IS CAUSED SOLELY BY A PARTY INDEMNIFIED HEREUNDER.

THE OBLIGATIONS OF THE CONTRACTOR UNDER THIS SECTION SHALL NOT EXTEND TO THE LIABILITY OF THE ARCHITECT, THE ARCHITECT'S CONSULTANTS, OR AGENTS AND EMPLOYEES OF ANY OF THEM, CAUSED BY OR RESULTING FROM: (1) DEFECTS IN PLANS, DESIGNS OR SPECIFICATIONS PREPARED, APPROVED, OR USED BY THE ARCHITECT OR ENGINEER; OR, (2) NEGLIGENCE OF THE ARCHITECT OR ENGINEER IN THE RENDITION OR CONDUCT OF PROFESSIONAL DUTIES CALLED FOR OR ARISING OUT OF THE CONSTRUCTION CONTRACT IN THE PLANS, DESIGNS OR SPECIFICATIONS THAT ARE PART OF THE CONSTRUCTION CONTRACT; AND, (3) ARISING FROM: (A) PERSONAL INJURY OR DEATH; (B) PROPERTY DAMAGE; OR, (C) ANY OTHER EXPENSE THAT ARISES FROM PERSONAL INJURY, DEATH OR PROPERTY DAMAGE OR AS OTHERWISE LIMITED BY TEXAS CIVIL PRACTICE & REMEDIES CODE §130.001, ET SEQ.

FURTHER, AND IN ACCORDANCE WITH TEXAS INSURANCE CODE §151.102, AS APPLICABLE, THE OBLIGATIONS OF THE CONTRACTOR UNDER THIS SECTION SHALL NOT REQUIRE CONTRACTOR TO INDEMNIFY, HOLD HARMLESS, OR DEFEND THE PARTY(S) INDEMNIFIED HEREUNDER AGAINST A CLAIM CAUSED BY (I) THE NEGLIGENCE OR FAULT, (II) THE BREACH OR VIOLATION OF A STATUTE, ORDINANCE, GOVERNMENTAL REGULATION, STANDARD, OR RULE, OR (III) THE BREACH OF CONTRACT, OF THE OWNER, ITS AGENT OR EMPLOYEE OR ANY THIRD PARTY UNDER THE CONTROL OR SUPERVISION OF THE OWNER, OTHER THAN THE CONTRACTOR OR ITS AGENT, EMPLOYEE OR SUBCONTRACTOR OF ANY TIER.

J. AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE PROJECT.

1. The Contractor, as soon as practicable after award of the Contract, shall furnish in writing to the Owner the names of persons or entities proposed for each principal portion of the Project, if any. The Owner will promptly reply to the Contractor in writing stating whether or not the Owner, after due investigation, has reasonable objection to any proposed person or entity. Failure of the Owner to reply within ten (10) District business days shall constitute notice of no reasonable objection.
2. The Contractor shall not contract with a proposed person or entity to whom the Owner has made reasonable and timely objection. The Contractor shall not be required to contract with anyone to whom the Contractor has made reasonable objection.
3. If the Owner has reasonable objection to a person or entity proposed by the Contractor, the Contractor shall propose another to whom the Owner has no reasonable objection. The Contract Sum shall be increased or decreased by the difference in cost occasioned by such change and an appropriate Change Order shall be issued. However, no increase in the Contract Sum shall be allowed for such change unless the Contractor has acted promptly and responsively in submitting names as required.

4. The Contractor shall not change a Subcontractor, person or entity previously selected if the Owner makes reasonable objection to such change.
5. The Contractor shall not subcontract the Project as a whole. The approval of Subcontractors in no way relieves the Contractor from full responsibility.
6. Communications by and with Subcontractors and material suppliers shall be through the Contractor.
7. The Contract shall not be construed to create a contractual relationship of any kind:
 - a. between the Owner and a Subcontractor or Sub-subcontractor, or
 - b. between any persons or entities other than the Owner and Contractor.

K. WORKERS' COMPENSATION.

A copy of a certificate of insurance, a certificate of authority to self-insure issued by the Texas Department of Insurance, or a coverage agreement (DWC-81, DWC-82, DWC-83, or DWC-84), showing statutory workers' compensation insurance coverage for the person's or entity's employees providing services on a project is required for the duration of the Project.

Duration of the Project includes the time from the beginning of the Work on the Project until the Contractor's/person's work on the project has been completed and accepted by the Owner.

Persons providing services on the Project ("subcontractor" in Texas Labor Code §406.096) include all persons or entities performing all or part of the services the Contractor has undertaken to perform on the Project, regardless of whether that person contracted directly with the Contractor and regardless of whether that person has employees. This includes, without limitation, independent contractors, subcontractors, leasing companies, motor carriers, owner-operators, employees of any such entity, or employees of any entity that furnishes persons to provide services on the Project.

Services include, without limitation, providing, hauling, or delivering equipment or materials, or providing labor, transportation, or other service related to a project. Services do not include activities unrelated to the Project, such as food/beverage vendors, office supply deliveries, and delivery of portable toilets.

The Contractor shall provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code §401.011(44) for all employees of the Contractor providing services on the project for the duration of the Project.

The Contractor must provide a certificate of coverage to the Owner prior to being awarded the Contract.

If the coverage period shown on the Contractor's current certificate of coverage ends during the duration of the Project, the Contractor must, prior to the end of the coverage period, file a new certificate of coverage with the Owner showing that coverage has been extended.

The Contractor shall obtain from each person providing services on a project, and provide to the Owner:

1. A certificate of coverage, prior to that person beginning work on the Project, so the Owner will have on file certificates of coverage showing coverage for all persons providing services on the Project; and
2. No later than seven (7) days after receipt by the Contractor, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the Project.

The Contractor shall retain all required certificates of coverage for the duration of the Project and for one year thereafter.

The Contractor shall notify the Owner in writing by certified mail or personal delivery, within ten (10) days after the Contractor knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the Project.

The Contractor shall post on each project site a notice, in the text, form, and manner prescribed by the Texas Workers' Compensation Commission, informing all persons providing services on the project that they are required to be covered, and stating how a person may verify coverage and report lack of coverage.

The Contractor shall contractually require each person with whom it contracts to provide services on a Project, to:

1. Provide coverage, based on proper reporting of classification codes and payroll amounts and filing of any coverage agreements, which meets the statutory requirements of Texas Labor Code §401.011(44) for all of its employees providing services on the project for the duration of the Project;
2. Provide to the Contractor, prior to that person beginning work on the project, a certificate of coverage showing that coverage is being provided for all employees of the person providing services on the Project for the duration of the Project;
3. Provide the Contractor, prior to the end of the coverage period, a new certificate of coverage showing extension of coverage, if the coverage period shown on the current certificate of coverage ends during the duration of the Project.
4. Obtain from each other person with whom it contracts, and provide to the Contractor:

- a. A certificate of coverage, prior to the other person beginning work on the Project; and
 - b. A new certificate of coverage showing extension of coverage, prior to the end of the coverage period, if the coverage period shown on the current certificate of coverage ends during the duration of the Project;
5. Retain all required certificates of coverage on file for the duration of the Project and for one year thereafter;
6. Notify the Owner in writing by certified mail or personal delivery, within ten (10) days after the person knew or should have known, of any change that materially affects the provision of coverage of any person providing services on the Project; and
7. Contractually require each person with whom it contracts to perform as required by items 1-6, with the certificates of coverage to be provided to the person for whom they are providing services.

By signing this Contract or providing or causing to be provided a certificate of coverage, the Contractor is representing to the Owner that all employees of the Contractor who will provide services on the Project will be covered by workers' compensation coverage for the duration of the Project, that the coverage will be based on proper reporting of classification codes and payroll amounts, and that all coverage agreements will be filed with the appropriate insurance carrier or, in the case of a self-insured, with the commission's Division of Self-Insurance Regulation. Providing false or misleading information may subject the contractor to administrative penalties, criminal penalties, civil penalties, or other civil actions.

The Contractor's failure to comply with any of these provisions is a breach of contract by the Contractor that entitles the Owner to declare the contract void if the Contractor does not remedy the breach within ten days after receipt of notice of breach from the Owner.

The coverage requirement recited above does not apply to sole proprietors, partners, and corporate officers who are excluded from coverage in an insurance policy or certificate of authority to self-insure that is delivered, issued for delivery, or renewed on or after January 1, 1996. 28 TAC §110.110(i).

L. PAYMENT AND PERFORMANCE BONDS.

In accordance with Texas Government Code §2253.021, the Contractor shall furnish, before beginning the Work, a Performance Bond in an amount equal to one hundred percent (100%) of the Contract Sum, if the Contract Sum meets or exceeds \$100,000.00, to be used as security of the faithful performance of the Contract. The Contractor shall also furnish, before beginning the Work, a Payment Bond in accordance with Texas Government Code §2253.021, in an amount equal to one hundred percent (100%) of the Contract Sum, if the Contract Sum meets or exceeds \$25,000.00, as security for the payment of all persons

performing labor on the project under this Contract and furnishing materials in connection with the Contract. The Performance Bond, and the Payment Bond may be in one or in separate instruments in accordance with local law. Surety companies must be authorized to write surety bonds in Texas and any such surety bond must comply with the requirements Section 7.19-1, Texas Insurance Code. Proof of such Performance, and Payment Bonds shall be submitted to the Superintendent for his inspection and review prior to beginning any Work on the Project.

1. The Contractor shall deliver the required Bonds to the Owner not later than the date set in the Notice to Proceed. All Bonds will be reviewed by the District for compliance with the Contract Documents prior to the start of construction.
2. All Bonds shall be originals. The Contractor shall require the attorney-in-fact who executes the required Bonds on behalf of the Surety to affix thereto a certified and current copy of the power-of-attorney. The name, address, and telephone number of a contact person for the Bonding Company shall be provided.

M. CONTRACTOR'S INSURANCE.

Contractor shall carry the following insurance with the minimum limits set forth herein. Such insurance must be carried with insurance companies acceptable to Owner. Contractor shall maintain such insurance, at its sole cost and expense, in full force and effect until this Contract has been fully performed, all equipment, implements and machinery of Contractor has been removed from, and all employees, agents, representatives and Subcontractors of Contractor have left Owner's premises, and final payment of the Contract Sum is made, unless any such coverage is required pursuant to the terms of the Contract Documents to be maintained after all of the foregoing items have been completed. Contractor shall cause each insurance company (i) to issue the insurance on an occurrence basis; (ii) to provide defense as additional benefit and not within the limits of liability, (iii) to issue an endorsement to all policies that the policies are primary and that Owner's policies are excess, secondary and noncontributing, (iv) issue an endorsement to all policies to provide a waiver of subrogation in favor of Owner, (v) to issue an endorsement to all policies, except the workers' compensation and employer's liability insurance policies, to include Owner and its trustees, officers, employees, and agents as "additional insureds," and, (vi) to include in each insurance policy a provision that the insurance company or companies shall not cancel, non-renew, or change coverage from the requirements of the Contract Documents without providing at least 30 days' advance written notice to Owner. The insurance company or companies shall not exclude from coverage the negligence, of the "additional insureds," unless such negligence is solely attributable to the conduct of an "additional insured." Contractor releases Owner and its trustees, officers, employees and agents from any liability covered by the insurance for which subrogation is waived. Contractor shall provide to Owner at least 30 days' advance written notice of any contemplated cancellation, non-renewal, or material reduction in insurance coverage. Contractor shall provide to Owner a certified copy of any and all insurance policies required in this Contract if Owner requests a copy.

Insurance coverage shall be written for the greater of the following limits or as specified in Owner's RFP/CSP, or as required by law, if greater:

1. Employer's Comprehensive General Liability insurance with minimum limits of \$1,000,000 for each employee for bodily injury by accident and for each employee for bodily injury by disease.
2. Commercial General Liability insurance, including liability for the Project and blanket coverage, Personal and Advertising Injury, Products-Completed Operations, Medical Payments, Bodily Injury, and Property Damage, with minimum limits of \$300,000 per occurrence, \$300,000 general aggregate, \$300,000 products-completed operations aggregate, \$50,000 fire damage (any one fire), and \$5,000 medical expense. Contractor shall obtain an endorsement to each insurance policy to provide aggregate limits per location. Contractor shall cause each insurance company to delete any contractual liability exclusion with respect to the insurance, including insurance coverage for personal injury, hazards of explosion, collapse, fire, and underground property damage.
3. Business Automobile Liability insurance with minimum combined single limits of \$1,000,000. Contractor shall cause each insurance company to provide coverage for liability arising out of the operation of owned, hired, and non-owned vehicles.
4. Contractual Liability insurance with minimum limits of \$1,000,000 per occurrence, and \$1,000,000 general aggregate. Contractor shall obtain an endorsement to each insurance policy to provide aggregate limits per location. The contractual liability insurance shall not be limited to coverage for the Indemnity, Waiver, and Obligation to Defend provisions in this Contract, but, instead, the contractual liability insurance shall cover all of Contractor's obligations to the fullest extent possible under the contractual liability endorsement. Further, the contractual liability insurance shall not limit, in any way, coverage provided to Owner and its trustees, officers, employees, and agents as additional insureds under each of Contractor's insurance policies.
5. Builder's Risk "all-risk" or equivalent insurance policy, including boiler and machinery insurance, in the amount of the initial Contract Sum plus the value of subsequent Contract modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis. Coverage shall insure against the perils of fire, (with extended coverage) and physical loss or damage including, without limitation or duplication of coverage, lightning, collapse, earthquake, flood, wind storm, hurricane, hail, explosion, riot, civil commotion, smoke, aircraft, land vehicles, theft, vandalism, malicious mischief, falsework, testing and start-up, temporary buildings, debris removal including demolition occasioned by enforcement of any applicable legal requirements, and all other perils, and shall include materials stored on-site, off-site and in transit. Owner shall be a named insured under the policy, and the insurance shall also include the interests of Contractor, subcontractors, and sub-subcontractors. Contractor shall be responsible for maintaining said builder's risk insurance until the date of Final

Completion. For any claim made against the builder's risk insurance, the deductible shall not exceed \$2,500.

6. Umbrella/Excess Liability Insurance with minimum limits of \$1,000,000. Contractor shall cause each insurance company to provide the insurance on an umbrella basis in excess over and no less broad than the liability coverages required in this Contract, with the same inception and expiration dates as Commercial General Liability insurance, and with coverage that “drops down” for exhausted aggregate limits under liability coverages in this Contract.

Contractor shall provide to Owner before the Work is started and at least 30 days prior to the expiration of a policy or policies of insurance in effect during the term of this Contract a certificate or certificates of insurance evidencing all required insurance in the Contract Documents and acceptable to Owner. All certificates, among other things, shall:

1. Show Owner as a certificate holder.
2. Show Contractor as the Named Insured.
3. Show the names of the insurance companies providing each coverage, the policy numbers of each coverage, and policy dates of each coverage.
4. Show the name of the person providing the certificate and that person's address and telephone number.
5. Contain the signature of an authorized representative of the person providing the certificate.
6. Show that each insurance company named Owner and its trustees, officers, employees, and agents as additional insureds in each insurance policy.
7. Show the primary status of each insurance policy.
8. Have attached copies of all required endorsements to each insurance policy, and not contain the phrases “endeavor to” and “but failure to mail such notice will impose no obligation or liability of any kind upon Company, its agents or representatives,” or similar phrases and shall include the commitment that each insurance company shall issue each insurance policy to the named and additional insureds, that each policy is in full force and effect, and that each insurance company shall give to Owner at least 30 days' advance written notice, by certified mail, return receipt requested in the event of cancellation, non-renewal, or material reduction in coverage of any insurance policy.

Contractor shall not procure an insurance policy or policies with deductibles or self-insured retention in excess of \$10,000 or with an endorsement restricting, limiting, or excluding coverage in any manner without Owner's prior written approval. Contractor shall pay all deductibles in the insurance that Contractor is required to provide under the Contract Documents.

The Contractor shall purchase and maintain insurance covering the Owner's contingent liability for claims which may arise from operations under the Contract. This coverage can be afforded by adding Owner as additional insured on general liability insurance coverage.

Contractor's failure to procure and maintain the required insurance shall constitute a material breach of, and default under, this Contract. If Contractor fails to remedy the breach within five (5) days after notice from Owner, Owner may, in addition to any other remedy available to it, at its option, purchase the insurance, at Contractor's expense, or immediately terminate this Contract. Contractor shall Indemnify and Defend Indemnified Persons from and against any Claims Arising from Contractor's failure to procure and/or maintain the insurance.

N. EQUAL EMPLOYMENT OPPORTUNITIES.

Contractor acknowledges that Owner, as an independent school district, is a political subdivision of the State of Texas and has certain requirements concerning equal employment and affirmative action under state and federal law, and shall comply with all applicable laws, regulations and special requirements under such federal and state laws, and the Contract Documents regarding equal employment opportunity and affirmative action programs.

Contractor and Contractor's Subcontractors, if any, shall not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin. Contractor shall take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, religion, color, sex or national origin. Such actions shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth policies of nondiscrimination.

VII. OWNER'S RIGHTS AND REMEDIES.

A. OWNER'S RIGHT TO REJECT THE PROJECT AND TO REQUIRE TESTING.

The Owner may reject all or part of the Project which does not conform to the Contract. Whenever the Owner considers it necessary or advisable, the Owner may require additional inspection or testing of the Project. Owner reserves the right to withhold any Progress Payment or portion thereof for any non-conforming or inferior Work, and the cost of any additional testing associated with non-conforming portions of the Work shall be charged to the Contractor and may be offset against any amounts still owed to the Contractor.

B. OWNER'S RIGHT TO STOP THE PROJECT.

If Owner discovers any defective Work, including any portion of Work not constructed in accordance with the Contract Documents, Contractor shall promptly, without cost to the Owner, correct such defective Work. If Contractor fails to commence such corrections within a reasonable period of time, not to exceed thirty (30) days, and does not diligently continue the prosecution of such corrections, or if the Contractor persistently fails to do the Project in accordance with the Contract, the Owner, by written order, may order the Contractor to stop the Project, or any portion thereof, until the cause for such order has been eliminated.

C. OWNER'S RIGHT TO CARRY OUT THE PROJECT.

If the Contractor defaults or neglects to carry out the Project in accordance with the Contract and fails within a seven-day period after receipt of written notice from the Owner to commence and continue correction of such default or neglect with diligence and promptness, the Owner may after such seven-day period give the Contractor a second written notice to correct such deficiencies within a second seven-day period. If the Contractor within such second seven-day period after receipt of such second notice fails to commence and continue to correct any deficiencies, the Owner may, without prejudice to other remedies the Owner may have, correct such deficiencies. In such case the Owner shall deduct from payments then or thereafter due the Contractor the cost of correcting such deficiencies. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to the Owner.

D. TERMINATION BY THE OWNER FOR CAUSE.

1. The Owner may terminate the Contract if the Contractor:
 - a. persistently or repeatedly refuses or fails to do the work on the Project, or any part thereof, in accordance with the Contract and/or fails to supply enough properly skilled workers or proper materials;
 - b. fails to make prompt payment to Subcontractors or for materials or labor;
 - c. repeatedly disregards laws, ordinances, or rules, regulations or orders of a public authority having jurisdiction;
 - d. otherwise is guilty of substantial breach of a provision of the Contract; or
 - e. is adjudged bankrupt, makes a general assignment for the benefit of his creditors, or has a receiver appointed on account of its insolvency.
2. When any of the above reasons exist, the Owner may, but shall not be obligated to, without prejudice to any other rights or remedies of the Owner and after giving the Contractor and the Contractor's surety seven days' written notice, terminate employment

of the Contractor and may, but shall not be obligated to, subject to any prior rights of the surety:

- a. take possession of the site and all materials, including tools, and construction equipment and machinery located thereon which have been leased by the Contractor on behalf of the Owner;
 - b. accept assignment of subcontracts; and/or
 - c. finish the Project by whatever reasonable method the Owner may deem expedient.
3. When the Owner terminates the Contract for one of the reasons stated in Subparagraph 7(d)(1) above, the Contractor shall not be entitled to receive further payment until the Project is finished, if at all.
4. If the unpaid balance of the Contract Sum exceeds costs of finishing the Project, such excess shall be paid to the Contractor. If such costs exceed the unpaid balance, the Contractor shall pay the difference to the Owner. The amount to be paid to the Contractor or Owner, as the case may be, shall be an obligation for payment which shall survive termination of the Contract.

E. TERMINATION BY THE OWNER FOR CONVENIENCE.

The Owner may, for convenience and without cause, terminate the Contract upon not less than seven (7) days' prior written notice to the Contractor. In the event of such termination for convenience and without cause, the Contractor shall be compensated for services performed prior to termination.

F. SUSPENSION BY THE OWNER FOR CONVENIENCE.

1. The Owner may, without cause, order the Contractor in writing to suspend, delay or interrupt the Project in whole or in part for such period of time as the Owner may determine.
2. An adjustment may be made for increases in the cost of performance of the Contract, including profit on the increased cost of performance, caused by suspension, delay or interruption. No adjustment shall be made to the extent:
 - a. that performance is, was or would have been so suspended, delayed or interrupted by another cause for which the Contractor is responsible; or
 - b. that an equitable adjustment is made or denied under another provision of this Contract.

VIII. CLAIMS.

A. CLAIMS FOR ADDITIONAL COST.

If the Contractor wishes to make a claim for an increase in the Contract Sum or for extra costs or damages, the Contractor shall give the Owner written notice thereof within five (5) days after the event giving rise to such claim. Such claim will be submitted to the Superintendent of the Rockwall Independent School District, or designee, and that action shall be final and binding. Failure to give such notice shall be a waiver of the claim and such claim or possible claim shall be invalid and unenforceable unless so made.

B. CLAIMS FOR ADDITIONAL TIME.

1. If the Contractor wishes to make claim to change the date of Final Completion to allow for additional time, the Contractor shall give the Owner written notice thereof within five (5) days following the beginning of any such delay. In the case of a continuing delay only one claim is necessary. Such claim will be submitted to the Superintendent of the Rockwall Independent School District, or designee, and reviewed and approved or denied. Failure by Contractor to give such notice shall be a waiver of the claim and such claim or possible claim shall be invalid and unenforceable unless so made.

2. If adverse weather conditions are the basis for a claim for additional time, such claim shall be accompanied by Weather Bureau documentary evidence showing by comparison that such weather is abnormal to each of the past five (5) years. The guide for average climatological conditions will be the bulletin "Summary of Monthly Normals," for DFW Airport published by the Department of Commerce in cooperation with the National Oceanic & Atmospheric Administration.

IX. MISCELLANEOUS.**A. AUTHORITY OF BOARD.**

The Owner is the Rockwall Independent School District, as identified in the Contract Documents. The Board of Trustees, by majority vote, is the only representative of the Owner, an independent school district, having the power to enter into or amend a contract, to approve changes in the scope of Work, to approve and execute a Change Order or Construction Change Directive modifying the Contract Sum or Guaranteed Maximum Price, or agree to an extension to the date of Substantial or Final Completion. The Board will act as soon as reasonably possible to avoid undue delays. The Board designates authorized representatives to act on its behalf for day-to-day operations under the Contract. Unless otherwise designated in the Contract Documents, Owner's authorized representative shall be the Superintendent of Schools, who may delegate responsibilities as appropriate. Owner's Board of Trustees hereby delegates to the Superintendent of Schools or designee(s) the authority to approve changes to the Work where such changes are within the Owner's Contingency not to exceed \$35,000.00, or will not increase the dates for Substantial or Final Completion by more than zero days. Any such change shall be confirmed in writing between the Contractor and Owner's Superintendent or designee(s), and notice of such approved changes shall be given to the Board at its next regular meeting; except as

otherwise provided in the Contract Documents, the Architect or Owner's Consultant does not have such authority. Neither Architect or Owner's Consultant nor Contractor may rely upon the direction of any employee of Owner who has not been designated in writing by the Superintendent or Board of Trustees; Owner shall not be financially responsible for actions taken by the Architect or Owner's Consultant or Contractor in reliance upon direction from unauthorized persons.

B. HAZARDOUS MATERIALS.

IF HAZARDOUS MATERIALS ARE ENCOUNTERED AS A RESULT OF CONTRACTOR OR ITS SUBCONTRACTORS' IMPORTATION OF SUCH MATERIALS ONTO THE PROJECT SITE, THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER, ITS OFFICERS, DIRECTORS, AND EMPLOYEES FROM AND AGAINST ANY AND ALL CLAIMS, DAMAGES, LOSSES, COSTS AND EXPENSES, INCLUDING BUT NOT LIMITED TO, ATTORNEYS' FEES, ARISING OUT OF OR RELATED TO THE IMPORTATION OF SUCH MATERIALS ONTO THE PROJECT SITE AND/OR CONSTRUCTION WORK IN ANY AREA AFFECTED BY HAZARDOUS MATERIALS.

If hazardous materials are encountered as a result of the Owner's failure to identify or remove hazardous materials prior to the commencement of construction, Owner agrees to (1) release the Contractor and its subcontractors, officers, directors, and employees from any and all claims, damages, losses, or expenses incurred by Owner arising out of or related to the performance of the Construction Work in the area affected by the hazardous material up to and including the time when Contractor first learns of or discovers the existence of the hazardous materials, but not for any additional work done by the Contractor after the identification of such hazardous materials; (2) release the Contractor from any indemnification obligations in this Agreement arising out of or related to the hazardous materials, except to the extent that any such claims, damages, losses, or expenses incurred by Owner arise from Contractor's actions or inaction after the initial discovery and identification of hazardous materials; and (3) extend the contract time by the actual number of days that Contractor is delayed in the completion of the contract arising out of or related to the identification, test, and/or abatement of the hazardous material if Contractor is unable to complete the Project by the scheduled completion date plus any agreed extension under other conditions of the Agreement.

C. IMMIGRATION LAW.

Contractor represents and warrants that all contractors and subcontractors working on this project for Owner will comply with all applicable federal and state immigration laws, and verify all employees' eligibility to work in this country. Further, Contractor shall ensure that all contractors and subcontractors will indemnify the Owner for any damages and legal fees that the Owner incurs as a result of Contractor's and/or any subcontractor's failure to comply with applicable immigration laws.

D. PREVAILING WAGE RATES.

1. Contractor, Contractor's Subcontractors and Sub-subcontractors shall pay all workers not less than the general prevailing rate of per diem wages for work of a similar character where the Project is located, as detailed in the "Minimum Wage Schedule" provided herein. Wages listed are minimum rates only. However, no claims for additional compensation above the Contract Sum shall be considered by the Owner because of payments of wage rates in excess of the applicable rate provided herein. Texas Government Code §2258, *et seq.*; Texas Labor Code §62.0512, *et seq.*
2. Contractor shall forfeit, as a penalty to the Owner, \$60 for each laborer, worker or mechanic employed for each calendar day or part of the day that the worker is paid less than the wage rates stipulated in the Contract Documents.
3. Owner reserves the right to receive and review payroll records, payment records, and earning statements of employees of Contractor, and of Contractor's Subcontractors and Sub-subcontractors.
4. In executing the Work under the Contract Documents, Contractor shall comply with all applicable state and federal laws, including but not limited to, laws concerned with labor, equal employment opportunity, safety and minimum wages.
5. If no "minimum wage schedule" is provided herein, the Contractor shall use the wage rates determined by the US Department of Labor in accordance with the Davis-Bacon Act, 40 USC Section 3141, which can be accessed on the internet at www.gpo.gov/davisbacon/, or determined by any local contractor association, whichever is less.

E. TIME.

1. Time limits stated in the Contract are of the essence. By executing the Agreement, the Contractor confirms that the date selected for Final Completion provides a reasonable period for performing the Project. Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become familiar with local conditions under which the Project is to be performed and correlated personal observations with requirements of the Contract.
2. The Contractor shall proceed expeditiously with adequate forces and shall achieve Final Completion by the date selected for Final Completion.

F. GOVERNING LAW.

This Contract shall be governed by the law of the State of Texas. Venue for any legal action arising out of the Project shall be in a state or federal court, as appropriate, in the county where the Owner's Administrative Offices are located.

G. NO ASSIGNMENT.

Neither party to the Contract shall assign the Contract as a whole without written consent of the other.

H. WRITTEN NOTICE.

Written notice shall be deemed to have been duly served if delivered in person or if delivered at or sent by registered or certified mail to the following:

If to Owner:

Superintendent of Schools
Rockwall Independent School District
1050 Williams Street
Rockwall, Texas 75087

and to the Owner's authorized representative at the address set forth above.

David Carter, Senior Chief Financial Officer

If to Contractor:

(Insert Name and Address)

Contractor's authorized representative or, if a corporation, to an officer of the corporation at the address set forth above.

I. RIGHTS AND REMEDIES.

Duties and obligations imposed by the Contract and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

J. ENTIRE AGREEMENT.

This Agreement and the additional documents identified and referenced herein represent the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations or agreements, either written or oral.

K. NO ISRAEL BOYCOTT.

Pursuant to the requirements of Texas Government Code Chapter 2270, Contractor verifies that it does not boycott Israel, and it will not boycott Israel during the term of this Agreement.

[the remainder of this page is intentionally left blank]

This Agreement is entered into as of the day and year first written above and is executed in at least two original copies, one of which is to be delivered to the Contractor and one to the Owner.

OWNER:

Signature

Date

CONTRACTOR:

Signature

Date

David Carter, CPA
Senior Chief Financial Officer

(Insert Name)
(Insert Title)

Rockwall Independent School District
1050 Williams Street
Rockwall, Texas 75087

(Insert Company Name)
(Insert Company Address)
(Insert Contact Number)

Contractor Certification

Introduction: Texas Education Code Chapter 22 requires service contractors to obtain criminal history record information regarding covered employees and to certify to Rockwall Independent School District (the “District”) that they have done so. Covered employees with disqualifying convictions are prohibited from serving at a school district.

Definitions:

Covered employees: All employees of a contractor who have or will have continuing duties related to the service to be performed at the District and have or will have direct contact with students. The District will be the final arbiter of what constitutes direct contact with students.

Disqualifying conviction: One of the following offenses, if at the time of the offense, the victim was under 18 or enrolled in a public school: (a) a felony offense under Title 5, Texas Penal Code; (b) an offense for which a defendant is required to register as a sex offender under Chapter 62, Texas Code of Criminal Procedure; or (c) an equivalent offense under federal law or the laws of another state.

On behalf of _____ (“Contractor”), I certify that [check one]:

☐ None of Contractor’s employees are *covered employees*, as defined above. Or

☐ Some or all of Contractor’s employee are *covered employees*. If this box is selected, I further certify that:

- (1) Contractor has obtained all required criminal history record information, through the Texas Department of Public Safety, regarding its covered employees. None of the covered employees has a disqualifying conviction. Contractor has taken reasonable steps to ensure that its employees who are not covered employees do not have continuing duties related to the contract services or direct contact with students.
- (2) If Contractor receives information that a covered employee has a disqualifying conviction, Contractor will immediately remove the covered employee from contract duties and notify the District in writing within 3 business days.
- (3) Upon request. Contractor will make available for the District’s inspection the criminal history record information of any covered employee. If the District objects to the assignment of a covered employee on the basis of the covered employee’s criminal history record information, Contractor agrees to discontinue using that covered employee to provide services at the District.

Noncompliance by Contractor with this certification may be grounds for contract termination.

Signature

Date

Exhibit “A”