

| No. | Date | Description |
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| | 12/12/2019 | ISSUED FOR PERMIT, BID, & CONSTRUCTION |
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Project Number : D03-19171-00
AZ
Approved By : KA

Drawn By : MB
Checked By : MB

Certification Statement :
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature :

Walter P. Moore and Associates, Inc.
TSPCE Firm Registration No. 1658



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Drawing Title:

COVER SHEET

Filename :

Sheet No. :

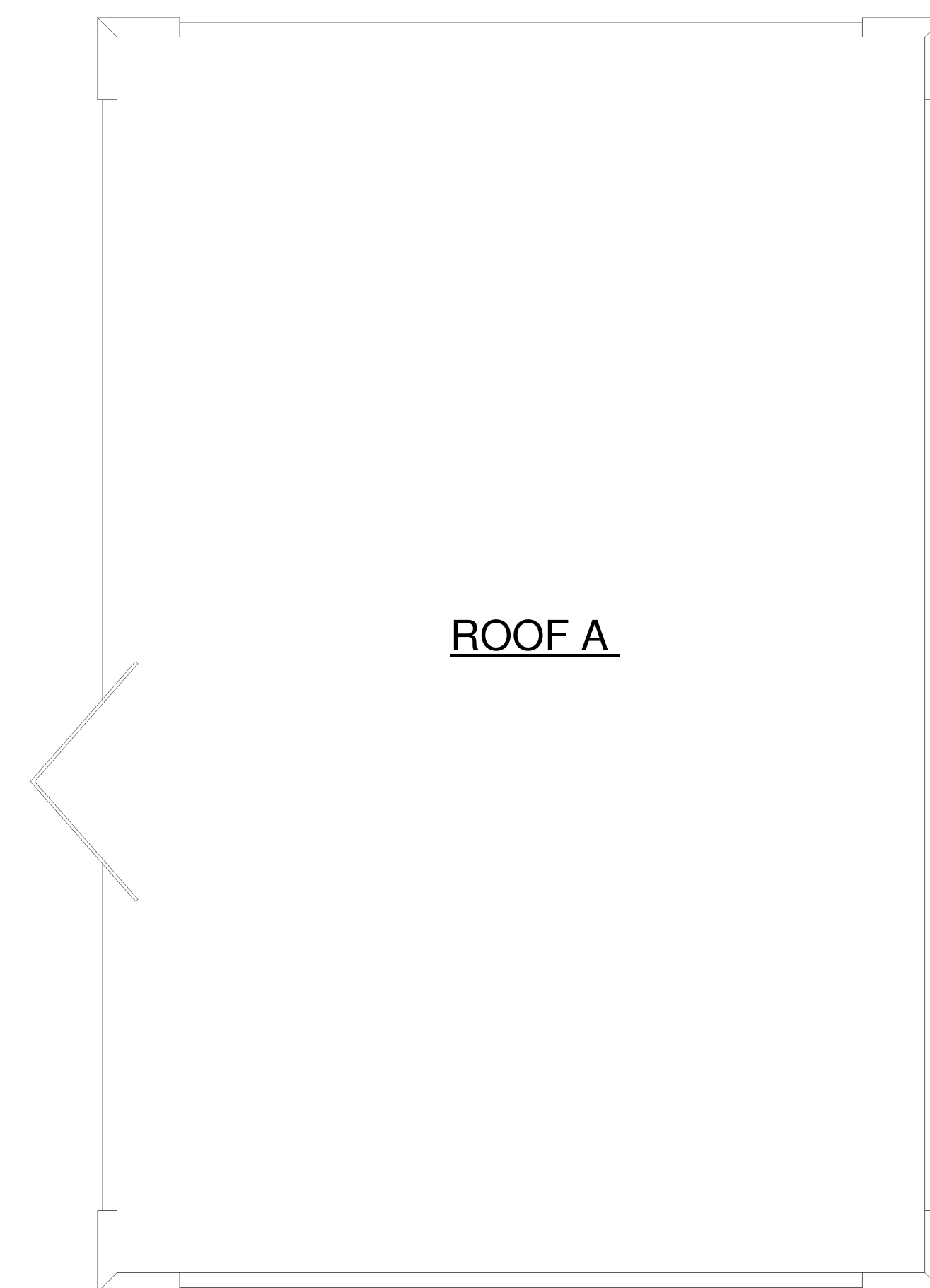
R0.0

HOUSTON COMMUNITY COLLEGE WLS ROOFING RETROFIT

5505 WEST LOOP SOUTH, HOUSTON, TX 77081



N
1 AREA MAP
NO SCALE



N
2 KEY PLAN
NO SCALE

| TASK ITEM | |
|-----------|--|
| TASK ITEM | DESCRIPTION |
| 1.1 | PROJECT MOBILIZATION |
| 2.1 | DEMOLITION AND SUBSTRATE PREPARATION |
| 5.1 | CLEAN AND COAT METAL PANELS |
| 6.1 | ROUGH CAPRENTRY |
| 7.1 | UNDER-DECK INSULATION REPLACEMENT |
| 7.2 | SINGLE-PLY PVC MEMBRANE ROOFING RECOVER RETROFIT |
| 7.4 | SHEET METAL FLASHING AND TRIM |
| 7.5 | ROOFING SYSTEM WARRANTY |
| 7.6 | JOINT SEALANT REPLACEMENT / INSTALLATION |
| 10.1 | CLEAN AND COAT CORRODED STEEL |
| 22.1 | PLUMBING WORK |
| 23.1 | MECHANICAL WORK |
| 26.1 | ELECTRICAL WORK |
| 26.2 | LIGHTNING PROTECTION |

| SHEET LIST | |
|--------------|---|
| SHEET NUMBER | SHEET NAME |
| R0.0 | COVER SHEET |
| R0.1 | GENERAL NOTES |
| R0.2 | ROOF PLAN - WIND ZONE |
| R1.0 | ROOFING DEMOLITION AND SUBSTRATE PREPARATION PLAN |
| R2.0 | ROOFING RECOVER RETROFIT PLAN |
| R3.0 | DETAILS |



Walter P Moore and Associates, Inc.
1301 McKinney Street, Suite 1100
Houston, Texas 77010

713.630.7300

Project :

HCCS WLS
ROOFING RETROFIT

Client:

HOUSTON COMMUNITY
COLLEGE SYSTEMS

Keyplan :

Issues/Revisions :

| No. | Date | Description |
|-----|------------|--|
| | 12/12/2019 | ISSUED FOR PERMIT, BID, & CONSTRUCTION |
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Seal and Signature :
Walter P. Moore and Associates, Inc.
Texas Professional Engineer
KIMANI GEORGE AUSTINE
104891
Professional Seal
12 DEC 2019

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Drawing Title:

GENERAL NOTES

Filename :

Sheet No. :

R0.1

GENERAL STRUCTURAL NOTES

| PART I - DESIGN CRITERIA | PART II - SELECTIVE DEMOLITION (CONTINUED) | PART IV - MISCELLANEOUS (CONTINUED) | PART V - DRAWING INTERPRETATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| A. GENERAL BUILDING CODE 1. The Construction Documents are based on the requirements of the International Building Code 2012 with Houston Amendments to the 2012 International Building Code. B. CONSTRUCTION LIVE LOADS 1. Design live loads are based on the most restrictive of the uniform load listed below. a. Ordinary flat, pitched, and curved roofs: 12 PSF C. WIND LOADS 1. Wind pressures are based on the American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures, ASCE 7-10 and the following criteria: a. Basic wind speed: 139 MPH (3 second gust) b. Building category: II c. Wind exposure category: C d. Internal pressure coefficient: +0.18/-0.18 2. Wind pressures used for the design of components and cladding are shown in the Sheet R0.2, Roof Plan- Wind Zone. Notes: a. Width of end zone/edge/corner strip shown in Sheet R0.2, Roof Plan - Wind Zone. b. Component and cladding pressures act normal to the surface. The design pressures listed in the Wind Pressure table are negative pressures act away from the surface. c. Design pressure for components and cladding shall not be less than 16 PSF acting in either direction normal to the surface. d. The effective wind area is the span length multiplied by an effective width that need not be less than one-third the span length. For cladding fasteners, the effective wind area shall not be greater than the area that is tributary to an individual fastener. e. The design pressures listed in the Wind Pressure table are calculated using a value of Kd of 1.0. The values can be reduced by 15% if load combinations specified in ASCE 7-10 are used in design. | G. POLLUTION CONTROLS 1. Refer to Division 01 specification sections for requirements on dust control, disposal, and cleaning of demolished material. H. EXECUTION OF SELECTIVE DEMOLITION 1. General: Demolish existing construction as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows: a. Use cutting methods least likely to damage construction to remain or adjoining construction. b. Do not use cutting torches until work area is cleared of flammable materials. Maintain fire watch and portable fire-suppression devices during flame-cutting operations. c. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site. d. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, slabs, or framing. e. Dispose of demolished items and materials promptly. 2. Existing Facilities: Comply with Owner's requirements for using and protecting other building facilities during selective demolition operations. 3. Removed and Salvaged Items: Comply with the following: a. Clean salvaged items. b. Store items in a secure area until delivery to Owner. c. Transport items to Owner's storage area as designated by Owner. 4. Existing Items to Remain: Contractor to coordinate with Owner (prior to beginning work) on items that are to remain and hence be protected during the demolition process. When permitted by Owner, items may be removed to a suitable and/or protected location. I. DISPOSAL OF DEMOLISHED MATERIALS 1. General: Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site. 2. Burning: Do not burn demolished materials. 3. Disposal: Transport demolished materials off Owner's property and legally dispose of them. 4. Water Capture: Follow all local ordinances and regulations for water capture. | B. CONFLICTS IN REQUIREMENTS 1. Where conflict exists among the various parts of the contract documents, drawings, general notes, and specifications, the strictest requirements, as indicated by the Engineer, shall govern. C. EXISTING CONDITIONS 1. The Contractor shall verify all dimensions and conditions of the existing building at the job site and report any discrepancies from assumed conditions shown on the drawings to Engineer prior to the fabrication procurement, fabrication, and installation of the new roofing system. Existing dimensions shown on the drawings are for general reference only and should not be used for final construction or detailing. 2. Existing construction shown on the drawings was obtained from existing construction documents and limited site observation. These drawings of existing construction are available for Contractor use and shall be reference for familiarization with existing conditions. However, the available drawings of existing construction are not necessarily complete. The contractor is responsible for being knowledgeable on information presented in available drawings and shall field verify all pertinent information. 3. The contractor shall perform a survey to locate all existing utilities prior to the start of construction and take care to protect utilities that are to remain in service. 4. The contractor shall provide dust, odor, and noise protection, and safety measures as necessary for the duration of repairs. Provide all measures necessary to protect the existing structure, building interior, vehicles, facility patrons, and other persons during construction. Such measures shall include, but not limited to temporary bracing, shoring, formwork, protective enclosures, and traffic control. 5. The contractor shall repair all damage caused during construction with similar materials and workmanship to restore conditions to levels acceptable to the Owner. D. ROOFING SYSTEM MANUFACTURER REPRESENTATION 1. The Contractor shall engage representatives of the roofing system manufacturer to be on-site during the early stages of work. Roofing system manufacturer's representatives shall be present at the pre-construction meeting, during tear-off of the existing roofing system, and at other phases of the project. E. RESPONSIBILITY OF THE CONTRACTOR FOR STABILITY OF THE STRUCTURE DURING CONSTRUCTION 1. It is the responsibility of the Contractor to maintain the stability and safety of all structural elements adjacent to repair areas. It is the responsibility of the Contractor to provide all required shoring and bracing to maintain the stability and safety of all elements during repair operations until the roof system installation is completed. F. RESPONSIBILITY OF THE CONTRACTOR FOR CONSTRUCTION LOADS 1. The Contractor shall not overload the structure during construction in excess of the construction live loads specified in these Drawings. The Contractor shall be responsible for checking the adequacy of the structure to support any applied construction loads, including those due to construction vehicles or equipment, material handling or storage, shoring or reshoring, or any other construction activity. The Contractor shall submit calculations signed and sealed by an engineer licensed in the state of Texas verifying the adequacy of the structure for any proposed construction loads that are in excess of the stated design loads. The Engineer is not responsible to design or check the structure for loads applied to the structure for any construction activity. G. CONTRACTOR SUBSTITUTIONS 1. Any materials or products submitted for approval that are different from the material or products specified in the contract documents will be considered for approval only if the following criteria are satisfied: a. A cost savings to the Owner is documented and submitted with the request. b. The material or product has been approved by the International Code Council (ICC) and the ICC report is submitted with the request. 1) The ICC ESR that is submitted must reference the building code under which the project is permitted. 2) ICC reports that have been discontinued at the time of product installation will not be accepted. 2. Submittals not satisfying the above criteria will not be considered. H. THE ENGINEER'S ROLE DURING CONSTRUCTION 1. The Engineer shall not have control nor charge of, and shall not be responsible for, construction means, methods, techniques, sequences, or procedures, for safety precautions and programs in connection with the work, for the acts or omission of the Contractor, Subcontractor, or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents. 2. Periodic site observation by field representatives of Walter P. Moore and Associates is solely for the purpose of becoming generally familiar with the progress and quality of the Work completed and determining, in general, if the Work observed is being performed in a manner indicating that the Work, when fully completed, will be in accordance with the repair contract documents. This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rather periodic in an effort to guard the Owner against defects or deficiencies in the work of the Contractor. I. MAINTENANCE STATEMENT 1. All roofing systems require periodic maintenance to extend lifespan and to ensure structural integrity from exposure to the environment. A planned program of maintenance shall be established by the building owner. This program shall include such items such as but not limited to replacement of sealants at roof flashing terminations, roof expansion joints, cleaning of exposed roofing cap sheet, and all other maintenance items recommended by the roofing manufacturer. Immediately report any leaks to the roofing manufacturer so that appropriate repairs may be implemented in accordance with the roofing guarantee requirements. 2. Inspections: Coordinate with roofing manufacturer for periodic inspections of the roofing system including but not limited to visual review of the membrane surfacing, flashing seams, base flashings, expansion joints, etc. Immediately report any roof related leaks to the roofing manufacturer so that appropriate repairs may be implemented. | A. DRAWING VIEWS LABELED AS "TYPICAL" 1. Plans, elevations, or details labeled with "Typical" at the beginning of their title shall apply to all situations occurring on the project that are the same or similar to those specifically shown. The applicability of the content of these views to locations on the plan can be determined from the title of the views. Such views shall apply whether or not they are keyed in at each location. Decisions regarding applicability of these "Typical" views shall be determined by the Structural Engineer. C. STRUCTURAL ABBREVIATIONS, SYMBOLS, AND NOTATIONS <table border="0"> <tr><td>@</td><td>AT</td></tr> <tr><td>&</td><td>AND</td></tr> <tr><td>#</td><td>NUMBER</td></tr> <tr><td>Ø</td><td>ROUND, DIAMETER</td></tr> <tr><td>ADDL</td><td>ADDITIONAL</td></tr> <tr><td>ALT</td><td>ALTERNATE</td></tr> <tr><td>APPROX</td><td>APPROXIMATE</td></tr> <tr><td>BOT</td><td>BOTTOM</td></tr> <tr><td>CL</td><td>CENTERLINE</td></tr> <tr><td>CONC</td><td>CONCRETE</td></tr> <tr><td>CONT</td><td>CONTINUOUS</td></tr> <tr><td>COORD</td><td>COORDINATE</td></tr> <tr><td>DIA</td><td>DIAMETER</td></tr> <tr><td>DIM</td><td>DIMENSION</td></tr> <tr><td>EA</td><td>EACH</td></tr> <tr><td>EJ</td><td>EXPANSION JOINT</td></tr> <tr><td>ELEV</td><td>ELEVATION</td></tr> <tr><td>EQ</td><td>EQUAL</td></tr> <tr><td>EQUIP</td><td>EQUIPMENT</td></tr> <tr><td>EW</td><td>EACH WAY</td></tr> <tr><td>EXIST</td><td>EXISTING</td></tr> <tr><td>FV</td><td>FIELD VERIFY</td></tr> <tr><td>GALV</td><td>GALVANIZED(D)</td></tr> <tr><td>HORIZ</td><td>HORIZONTAL</td></tr> <tr><td>LWC</td><td>LIGHTWEIGHT CONCRETE</td></tr> <tr><td>LWIC</td><td>LIGHTWEIGHT INSULATED CONCRETE</td></tr> <tr><td>MAX</td><td>MAXIMUM</td></tr> <tr><td>MECH</td><td>MECHANICAL</td></tr> <tr><td>MEP</td><td>MECHANICAL, ELECTRICAL & PLUMBING</td></tr> <tr><td>MIN</td><td>MINIMUM</td></tr> <tr><td>MISC</td><td>MISCELLANEOUS</td></tr> <tr><td>NIC</td><td>NOT IN CONTRACT</td></tr> <tr><td>NTS</td><td>NOT TO SCALE</td></tr> <tr><td>OC</td><td>ON CENTER</td></tr> <tr><td>OPP</td><td>OPPOSITE</td></tr> <tr><td>PSF</td><td>POUNDS PER SQUARE FOOT</td></tr> <tr><td>POLYISO</td><td>POLYISOCYANURATE INSULATION</td></tr> <tr><td>REF</td><td>REFERENCE</td></tr> <tr><td>REQD</td><td>REQUIRED</td></tr> <tr><td>REV</td><td>REVISION</td></tr> <tr><td>RTU</td><td>ROOF TOP UNIT</td></tr> <tr><td>SIM</td><td>SIMILAR</td></tr> <tr><td>SS</td><td>STAINLESS STEEL</td></tr> <tr><td>STD</td><td>STANDARD</td></tr> <tr><td>T.I.</td><td>TASK ITEM</td></tr> <tr><td>TYP</td><td>TYPICAL</td></tr> <tr><td>VERT</td><td>VERTICAL</td></tr> </table> | @ | AT | & | AND | # | NUMBER | Ø | ROUND, DIAMETER | ADDL | ADDITIONAL | ALT | ALTERNATE | APPROX | APPROXIMATE | BOT | BOTTOM | CL | CENTERLINE | CONC | CONCRETE | CONT | CONTINUOUS | COORD | COORDINATE | DIA | DIAMETER | DIM | DIMENSION | EA | EACH | EJ | EXPANSION JOINT | ELEV | ELEVATION | EQ | EQUAL | EQUIP | EQUIPMENT | EW | EACH WAY | EXIST | EXISTING | FV | FIELD VERIFY | GALV | GALVANIZED(D) | HORIZ | HORIZONTAL | LWC | LIGHTWEIGHT CONCRETE | LWIC | LIGHTWEIGHT INSULATED CONCRETE | MAX | MAXIMUM | MECH | MECHANICAL | MEP | MECHANICAL, ELECTRICAL & PLUMBING | MIN | MINIMUM | MISC | MISCELLANEOUS | NIC | NOT IN CONTRACT | NTS | NOT TO SCALE | OC | ON CENTER | OPP | OPPOSITE | PSF | POUNDS PER SQUARE FOOT | POLYISO | POLYISOCYANURATE INSULATION | REF | REFERENCE | REQD | REQUIRED | REV | REVISION | RTU | ROOF TOP UNIT | SIM | SIMILAR | SS | STAINLESS STEEL | STD | STANDARD | T.I. | TASK ITEM | TYP | TYPICAL | VERT | VERTICAL |
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| ALT | ALTERNATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| CONC | CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| FV | FIELD VERIFY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GALV | GALVANIZED(D) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HORIZ | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWC | LIGHTWEIGHT CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LWIC | LIGHTWEIGHT INSULATED CONCRETE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | MAXIMUM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MECH | MECHANICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEP | MECHANICAL, ELECTRICAL & PLUMBING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN | MINIMUM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MISC | MISCELLANEOUS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NIC | NOT IN CONTRACT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NTS | NOT TO SCALE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OC | ON CENTER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OPP | OPPOSITE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PSF | POUNDS PER SQUARE FOOT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| POLYISO | POLYISOCYANURATE INSULATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REF | REFERENCE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REQD | REQUIRED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| REV | REVISION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RTU | ROOF TOP UNIT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIM | SIMILAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SS | STAINLESS STEEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STD | STANDARD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| T.I. | TASK ITEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TYP | TYPICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VERT | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PART II - SELECTIVE DEMOLITION A. DEFINITIONS 1. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled. 2. Remove and Salvage: Detach items from existing construction and deliver them to Owner ready for reuse. Owner to identify items to be reused or salvaged. 3. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled. B. MATERIAL OWNERSHIP 1. Except for items or materials indicated to be reused, salvaged, or otherwise indicated to remain Owner's property, demolished materials shall become Contractor's property and shall be removed from Project site. The materials removed shall be disposed in a proper and legal manner per federal/state or local ordinances. C. QUALITY ASSURANCE 1. Regulatory Requirements: Comply with governing Owner, Local, State, Federal, and EPA notifications and regulations before beginning selective deconstruction / demolition. Comply with hauling and disposal regulations of authorities having jurisdiction. 2. Photo documentation of existing conditions of the building and adjoining properties shall be performed by Contractor prior to demolition. Photos shall be submitted to Owner and Engineer of Record. 3. Pre-demolition Conference: Conduct conference at Project site to address the following: a. Inspect and discuss condition of construction to be selectively demolished. b. Review structural load limitations of existing structure as appropriate for the proposed means and methods. c. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays. D. PROJECT CONDITIONS 1. Conduct selective demolition so Owner's operations will not be disrupted. Provide not less than 72-hour notice to Owner of activities that will affect Owner's operations. 2. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from authorities having jurisdiction. 3. Owner assumes no responsibility for condition of areas to be selectively demolished. a. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical. b. Before selective demolition, Owner will remove items within space as needed. 4. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Engineer and Owner. These materials shall be removed as disposed as approved by governing agency. 5. Storage or sale of removed items or materials on-site will not be permitted. 6. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations. Maintain fire-protection facilities in service during selective demolition operations. 7. Protect adjacent paving (asphalt or cement roadways, sewers, etc.) and drainage ditches as needed. 8. All areas outside of demolition scope to be protected from damage by contractor. Restore areas subject to incidental damage to their pre-demolition condition. E. UTILITY SERVICES 1. Refer to Division 01 sections regarding requirements for maintaining existing utilities in service and for interruptions of existing utilities. F. PREPARATION 1. Dangerous Materials: Drain, purge, or otherwise remove, collect, and dispose of chemicals, gases, explosives, acids, flammables, or other dangerous materials before proceeding with selective demolition operations. a. Protect existing site improvements, appurtenances, and landscaping to remain. b. Erect a plainly visible fence around drip line of individual trees or around perimeter drip line of groups of trees to remain. 2. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain. a. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of adjacent facilities. 3. Contractor to provide all necessary traffic control and pedestrian control measures as required. | PART III - SUBMITTALS A. SUBMITTAL LIST AND SCHEDULE 1. The Contractor shall prepare a detailed list and schedule of all submittal items to be sent to the Engineer prior to the start of construction. This list shall be updated and revised and kept current as the job progresses. The submittal list shall be organized as shown below: a. Shop Drawings b. Manufacturer Literature for Products, Assemblies, and Hardware c. Product Data, Certificate, Reports, and Other Literature d. Product and Contractor Warranties B. SHOP DRAWINGS 1. The General Contractor shall submit for Engineer review shop drawings for the following items: a. Sheet Metal Flashing and Detailing b. Roofing Insulation Slope Plan (at crickets) C. DEFERRED SUBMITTALS 1. The following items are considered deferred submittals by the registered design professionals in responsible charge: a. Temporary Fall Protection Systems (S&S, REC) b. Structural attachments for RTU Retrofits and Supplemental wood blocking connections (S&S, REC) Notes: (S&S) Items marked thus shall have the shop drawings and delegated design submittals (including calculations) sealed per the project specifications by an engineer registered in the State of Texas. (REC) Items marked thus shall be submitted to Engineer for Record Only and will not have the Engineer's shop drawing stamp affixed. 2. Documents for deferred submittal items shall be submitted to the registered design professional and shall be forwarded to the building official. 3. Deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official. D. MANUFACTURER LITERATURE 1. Submit manufacturer's product data sheets for all materials and products used in construction on the project. Where appropriate, also submit manufacturer's installation instructions and Safety Data Sheets for all products used in construction on the project. E. SUBMITTAL REQUIREMENTS: 1. All shop drawings must be reviewed and stamped by the Contractor prior to submittal. 2. Contractor shall provide the submittal in electronic portable document format (PDF) per the Specifications. 3. The omission from the shop drawings of any materials required by the Contract Documents to be furnished shall not relieve the Contractor of the responsibility of furnishing and installing such materials, regardless of whether the shop drawings have been reviewed and approved. F. REPRODUCTION 1. The use of electronic files or reproductions of these contract documents by any contractor, subcontractor, erector, fabricator, or material supplier in lieu of preparation of shop drawings signifies their acceptance of all information shown hereon as correct, and obligates themselves to any job expense, real or implied, arising due to any errors that may occur hereon. | PART IV - MISCELLANEOUS A. CONTRACT DOCUMENTS 1. It is the responsibility of the Contractor to obtain all Contract Documents and latest addenda and to submit such documents to all subcontractors and material suppliers prior to the submittal of shop drawings, fabrication and procurement of any roofing system materials, and installation. 2. The contract drawings and specifications represent the finished structure, and, except where specifically shown, do not indicate the method or means of construction. The Contractor shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, and sequence. 3. If certain features are not fully shown or specified on the drawings or in the specifications, their construction shall be of the same character as shown or specified in similar conditions. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Walter P Moore and Associates, Inc.
1301 McKinney Street, Suite 1100
Houston, Texas 77010

713.630.7300

Project :

HCCS WLS
ROOFING RETROFIT

Client:

HOUSTON COMMUNITY
COLLEGE SYSTEMS

Keyplan :

Issues/Revisions :

| No. | Date | Description |
|------------|------|--|
| 12/12/2019 | | ISSUED FOR PERMIT, BID, & CONSTRUCTION |
| | | |
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Project Number : D03:19171.00
Approved By : KA
Drawn By : AZ
Checked By : MB

Certification Statement :
TO THE BEST OF THE ENGINEER'S KNOWLEDGE,
THE PLANS AND SPECIFICATIONS COMPLY WITH
THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature :

Walter P. Moore and Associates, Inc.
TSP/E Firm Registration No. 1656



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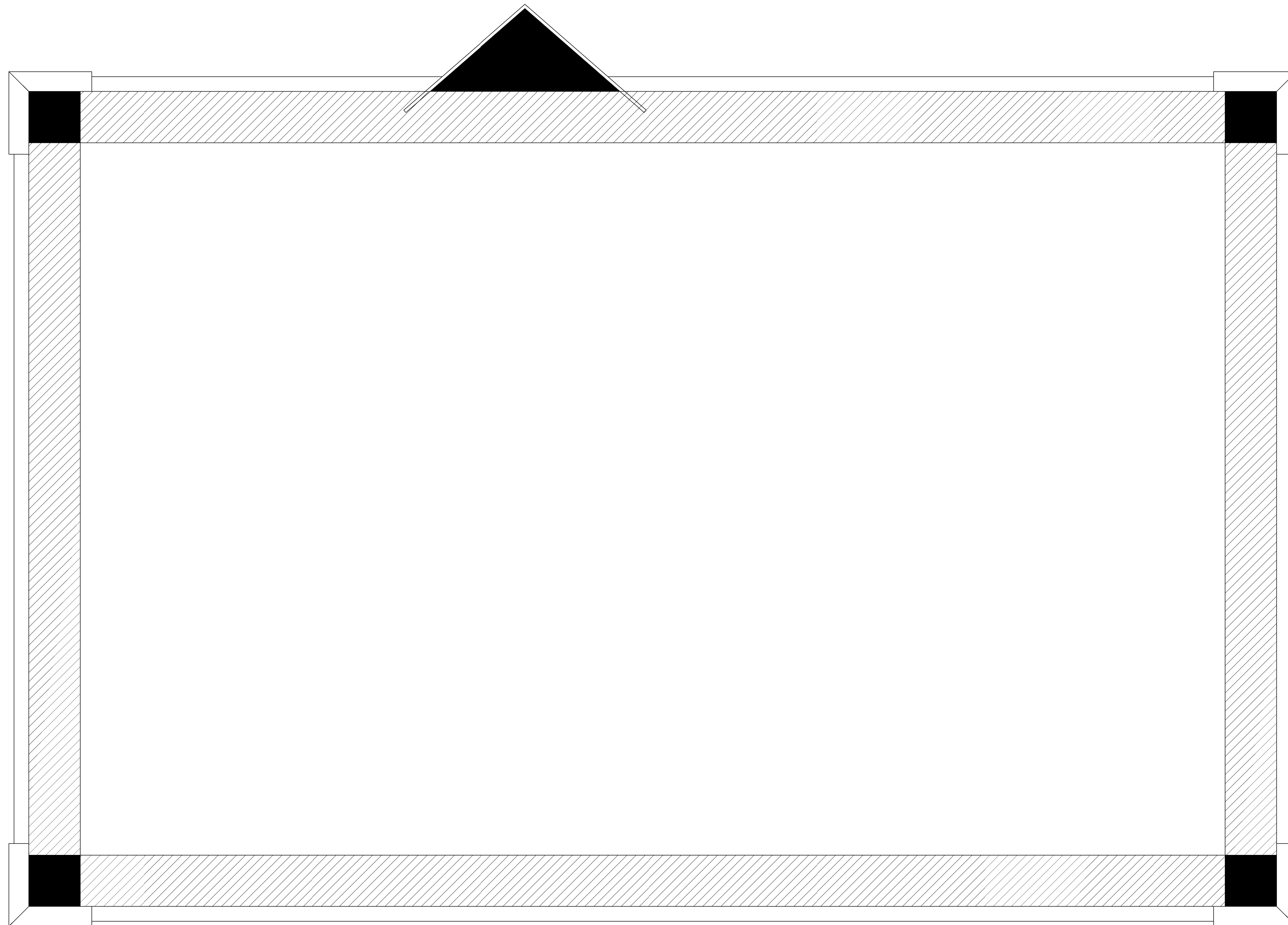
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ROOF PLAN -
WIND ZONE

Filename :

Sheet No. :

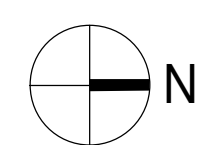
R0.2



| WIND PRESSURE | | |
|---------------|-----------------------------|-----------------|
| ZONE | EFFECTIVE WIND AREA (SQ-FT) | WIND LOAD (PSF) |
| INTERIOR | 10 | -52.6 |
| | 50 | -49.5 |
| | 100 | -48.2 |
| EDGE | 10 | -88.3 |
| | 50 | -66.5 |
| | 100 | -57.1 |
| CORNER | 10 | -132.9 |
| | 50 | -79.9 |
| | 100 | -57.1 |

ROOF PLAN HATCH AREA LEGEND

- INTERIOR ZONE
- EDGE ZONE
- CORNER ZONE



1 ROOF PLAN - WIND ZONE
NO SCALE



Walter P Moore and Associates, Inc.
1301 McKinney Street, Suite 1100
Houston, Texas 77010

713.630.7300

Project :

HCCS WLS
ROOFING RETROFIT

Client:

HOUSTON COMMUNITY
COLLEGE SYSTEMS

Keyplan :

Issues/Revisions :

| No. | Date | Description |
|------------|------|--|
| 12/12/2019 | | ISSUED FOR PERMIT, BID, & CONSTRUCTION |

| | |
|------------------|--------------|
| Project Number : | Drawn By : |
| D03-19171-00 | AZ |
| Approved By : | Checked By : |
| KA | MB |

Certification Statement :
TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

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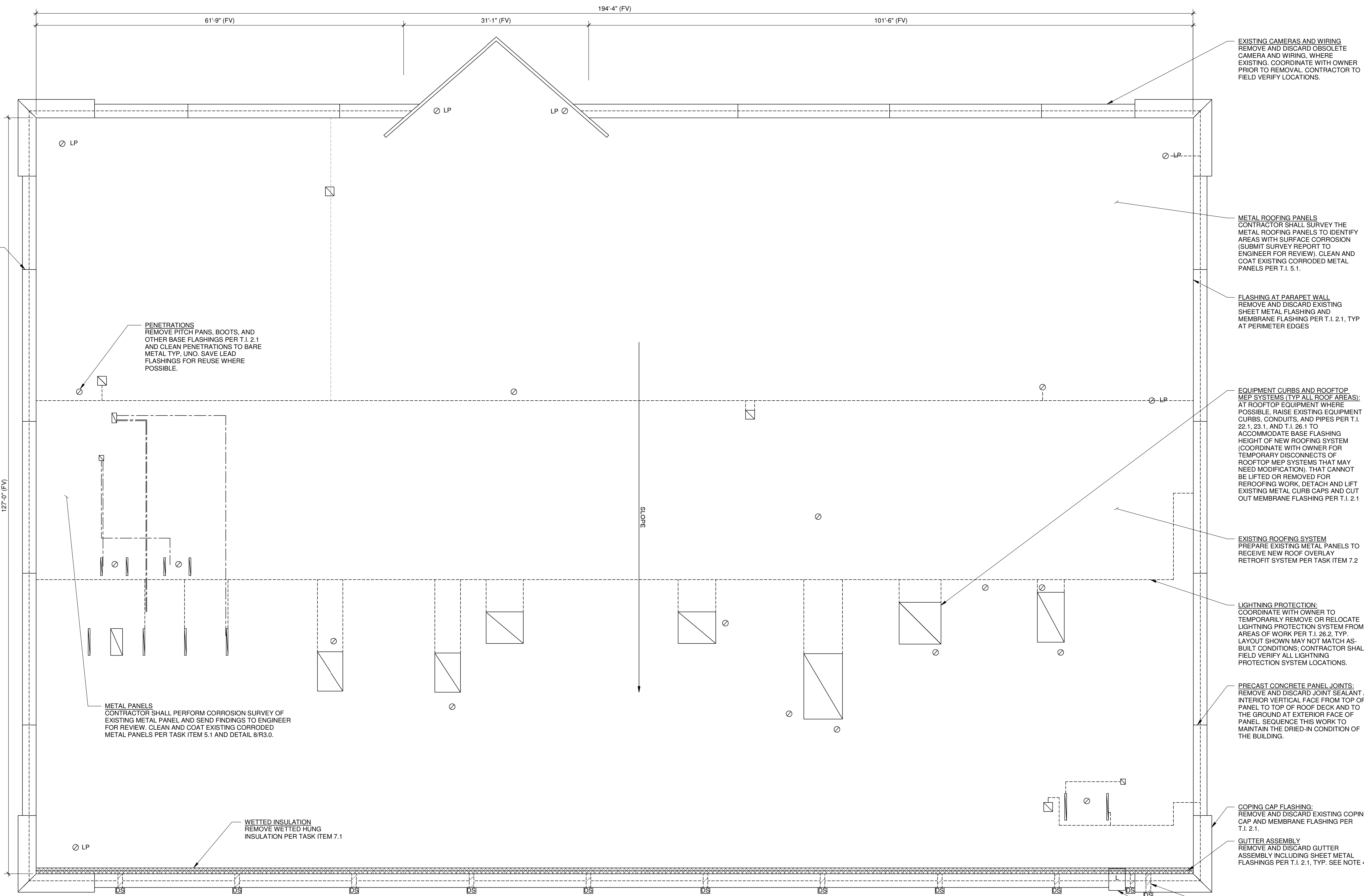
Drawing Title:

**ROOFING
DEMOLITION AND
SUBSTRATE
PREPARATION
PLAN**

Filename :

Sheet No. :

R1.0



- NOTES:**
- INFORMATION SHOWN ON PLANS AND DETAILS IS FOR CONTRACTOR'S GENERAL REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND REPORT DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS TO ENGINEER PRIOR TO STARTING WORK.
 - CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN THE WEATHER TIGHTNESS OF THE FACILITY DURING ALL FACILITY OPERATIONS. SUBMIT A BUILDING ENCLOSURE PROTECTION PLAN TO OWNER FOR REVIEW AND APPROVAL PRIOR TO START OF WORK.
 - DO NOT BLOCK ALLEYWAY OR STREETS ADJACENT TO STAGING AREAS WITH ROOFING MATERIALS, TRASH, VEHICLES, EQUIPMENT, OR ANY OTHER MISCELLANEOUS ITEMS DURING ROOFING PROJECT.
 - SEQUENCE REMOVAL AND DISCARDING OF PERIMETER GUTTERS AND DOWNSPOUTS TO MAINTAIN EFFECTIVE WATER MANAGEMENT AND DRAINAGE SYSTEMS PRIOR TO INSTALLATION OF NEW PERIMETER GUTTERS AND DOWNSPOUTS.

EXISTING ROOF SYSTEM

- ROOF COVERING: METAL ROOF PANELS WITH STANDING SEAMS ATTACHED TO STRUCTURAL PURLINS
- INSULATION (BELOW METAL PANELS): FIBROUS GLASS BLANKET FACED INSULATION SUSPENDED ACROSS THE STRUCTURAL STEEL Z-PURLIN ROOF FRAMING.

| KEY | |
|-----|--------------------------------------|
| | GUTTER |
| | DOWNSPOUT |
| | PIPE PENETRATION |
| | SLOPE DIRECTION |
| | LIGHTNING PROTECTION ROD AND SUPPORT |
| | LIGHTNING PROTECTION CABLE |
| | PIPE/ CONDUIT |
| | ACCESS LADDER |
| | THRU-WALL SCUPPER |
| | WETTED HUNG INSULATION |



1 ROOFING DEMOLITION AND SUBSTRATE PREPARATION PLAN

P:\D03\2019\19171-00 HCCS WLS - Metal Roofing Retrofit\Drawings\Revit\Structure\D03-19171-00 HCCS WLS_R19.rvt

| No. | Date | Description |
|------------|------|--|
| 12/12/2019 | AZ | ISSUED FOR PERMIT, BID, & CONSTRUCTION |

| | | | |
|------------------|--------------|--------------|----|
| Project Number : | D03-19171-00 | Drawn By : | AZ |
| Approved By : | KA | Checked By : | MB |

Certification Statement :
TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

Seal and Signature :

Walter P. Moore and Associates, Inc.
TSP/E Firm Registration No. 1656



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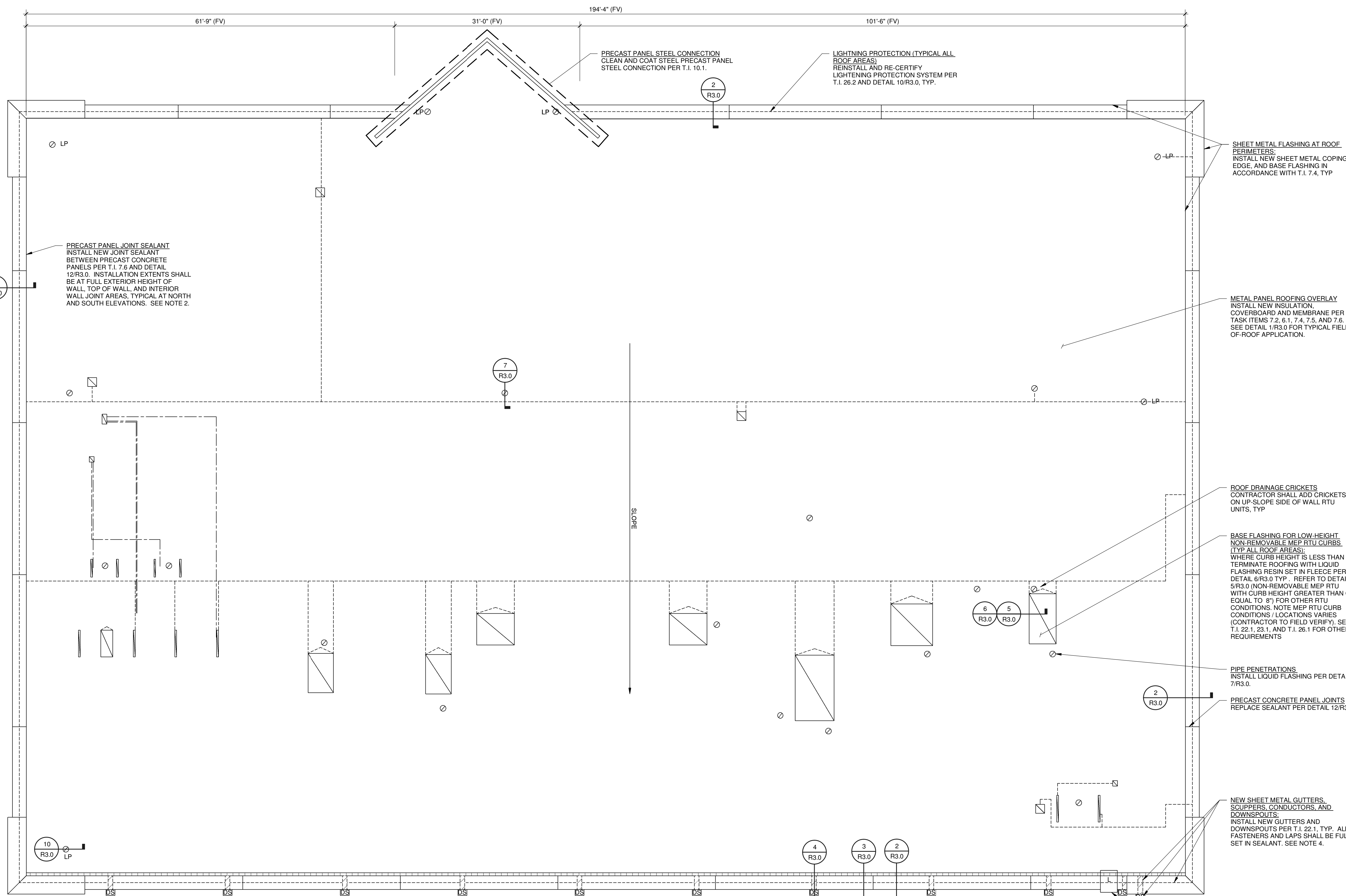
Drawing Title :

ROOFING RECOVER RETROFIT PLAN

Filename :

Sheet No. :

R2.0



- NOTES:**
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 - CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN THE WEATHER TIGHTNESS OF THE FACILITY DURING ALL FACILITY OPERATIONS. SUBMIT A BUILDING ENCLOSURE PROTECTION PLAN TO OWNER FOR REVIEW AND APPROVAL PRIOR TO START OF WORK.
 - DO NOT BLOCK ALLEYWAY OR STREETS ADJACENT TO STAGING AREAS WITH ROOFING MATERIALS, TRASH, VEHICLES, EQUIPMENT, OR ANY OTHER MISCELLANEOUS ITEMS DURING ROOFING PROJECT. CONTRACTOR SHALL COORDINATE STAGING AREA LOCATION AND SITE REQUIREMENTS WITH OWNER.
 - SEQUENCE REMOVAL AND DISCARDING OF PERIMETER GUTTERS AND DOWNSPOUTS TO MAINTAIN EFFECTIVE WATER MANAGEMENT AND DRAINAGE SYSTEMS PRIOR TO INSTALLATION OF NEW PERIMETER GUTTERS AND DOWNSPOUTS.
 - CONTRACTOR IS ADVISED THAT THE HEIGHT OF NEW INSULATION MAY CONFLICT WITH EXISTING WALLS, AND PARAPETS, ETC. CONTRACTOR SHALL PERFORM A FIELD SURVEY OF ALL EXISTING FIELD CONDITIONS AND DIRECTED BY ENGINEER, MODIFY AND RE-SUBMIT FINAL INSULATION SHOP DRAWINGS FOR ENGINEER'S REVIEW.

| KEY | |
|-----|----------------------------------|
| | GUTTER |
| | DOWNSPOUT |
| | PIPE PENETRATION |
| | SLOPE DIRECTION |
| | LIGHTNING PROTECTION PENETRATION |
| | LIGHTNING PROTECTION CABLE |
| | PIPE/ CONDUIT |
| | ACCESS LADDER |
| | THRU-WALL SCUPPER |

| METAL PANEL ROOF OVERLAY SYSTEM | |
|---------------------------------|--|
| <u>OVERLAY SYSTEM</u> | |
| SINGLE-PLY ROOFING MEMBRANE | |
| 1/2" COVERBOARD | |
| POLYISO INSULATION | |
| EXISTING METAL PANELS | |

EXISTING LADDER
AFTER INSTALLATION OF ROOFING PARAPET FLASHING (SEE DETAILS 3/R3.0 AND 4/R3.0), REINSTALL LADDER WALL ATTACHMENT. CLEAN AND COAT CUT EDGES OF LADDER SIDE RAILS PER T.I. 10.1

| No. | Date | Description |
|-----|------------|--|
| | 12/12/2019 | ISSUED FOR PERMIT, BID, & CONSTRUCTION |

| | | | |
|------------------|--------------|--------------|----|
| Project Number : | D03-19171.00 | Drawn By : | AZ |
| Approved By : | KA | Checked By : | MB |

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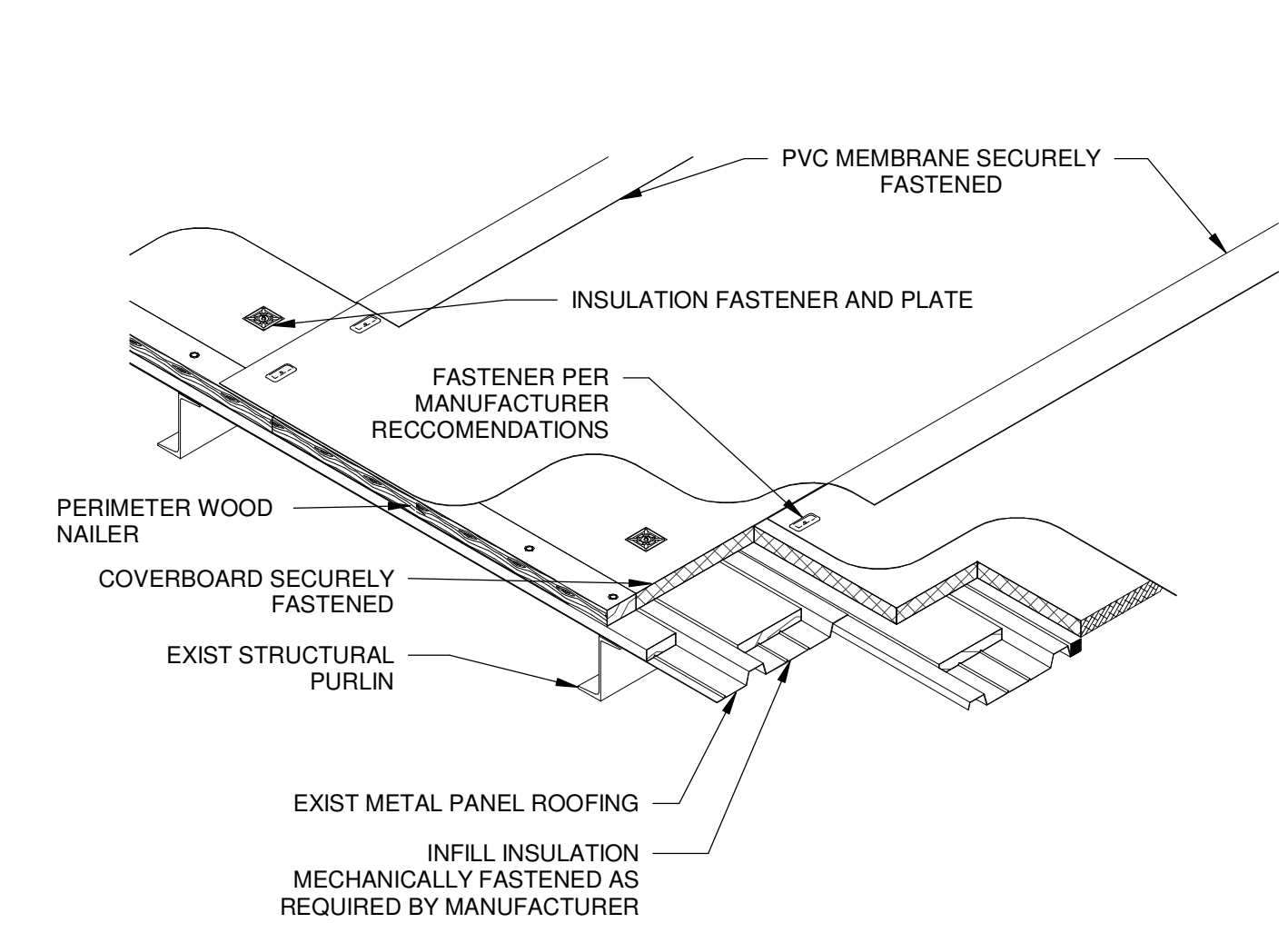
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Drawing Title:

DETAILS

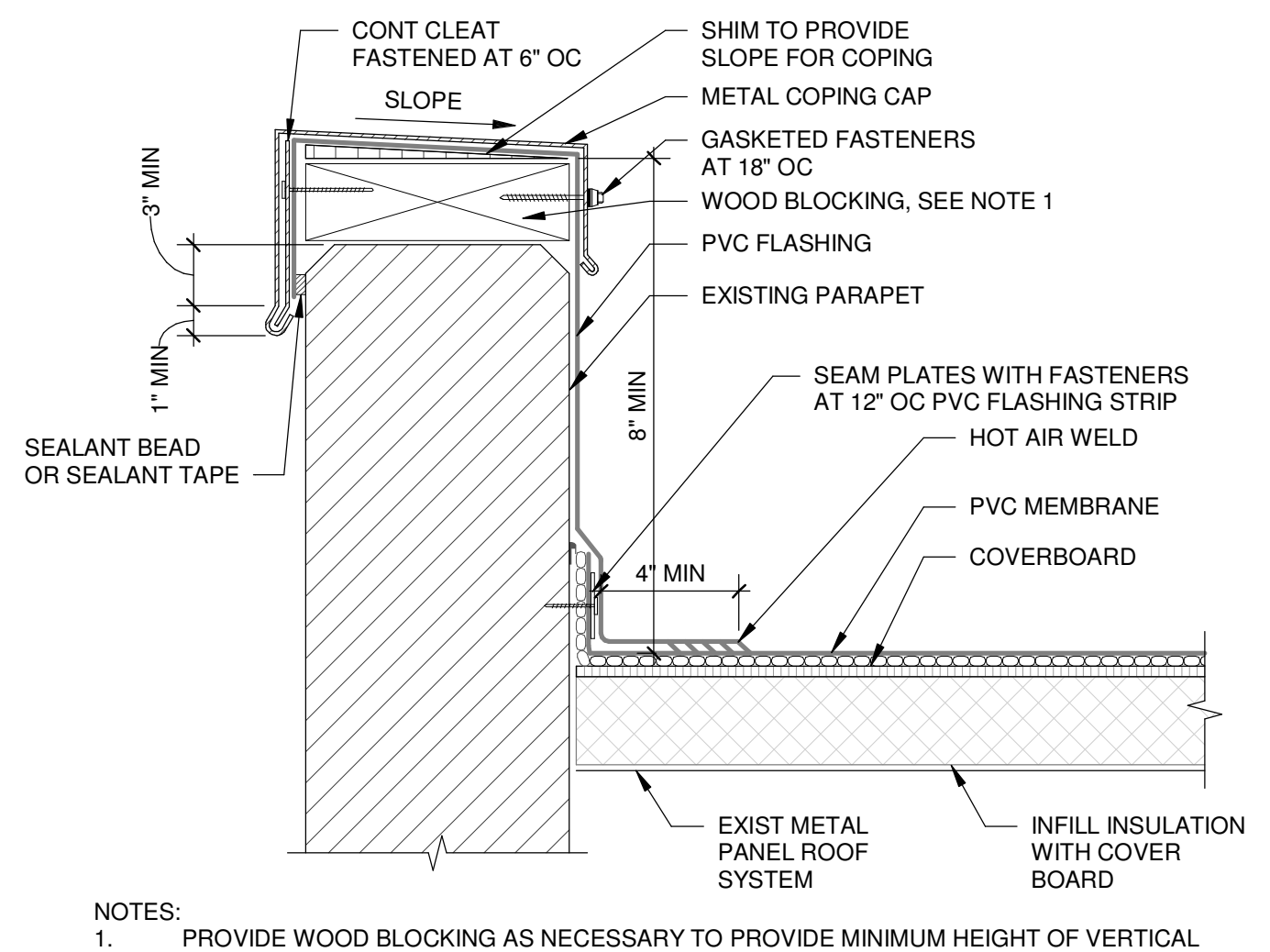
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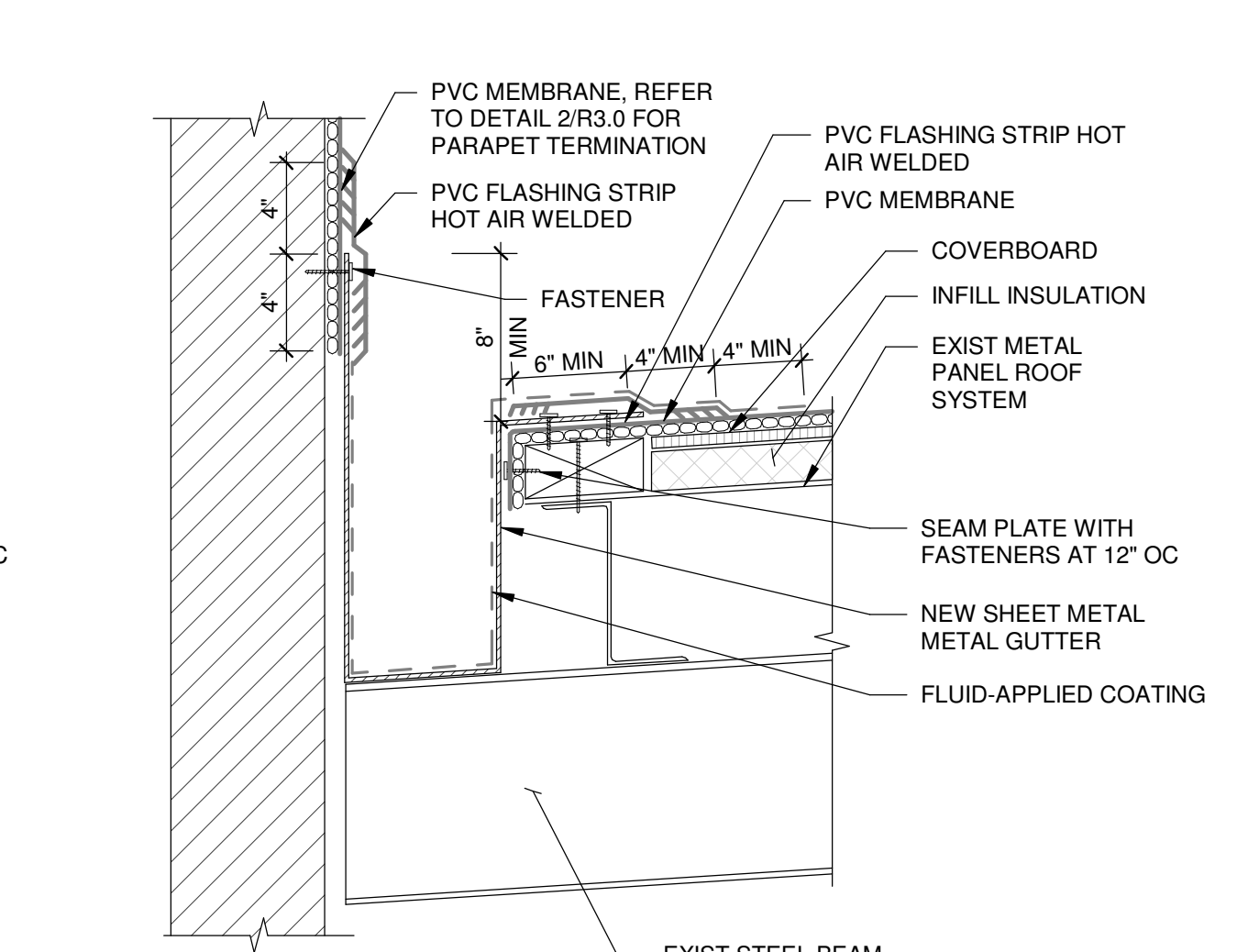
- NOTES:
1. DETAIL SHOWS TYPICAL MEMBRANE ASSEMBLY ONLY. IT DOES NOT REFLECT EXISTING SUBSTRATE CONDITION OF STANDING SEAM METAL ROOF.

1 TYPICAL MEMBRANE DETAIL
NO SCALE

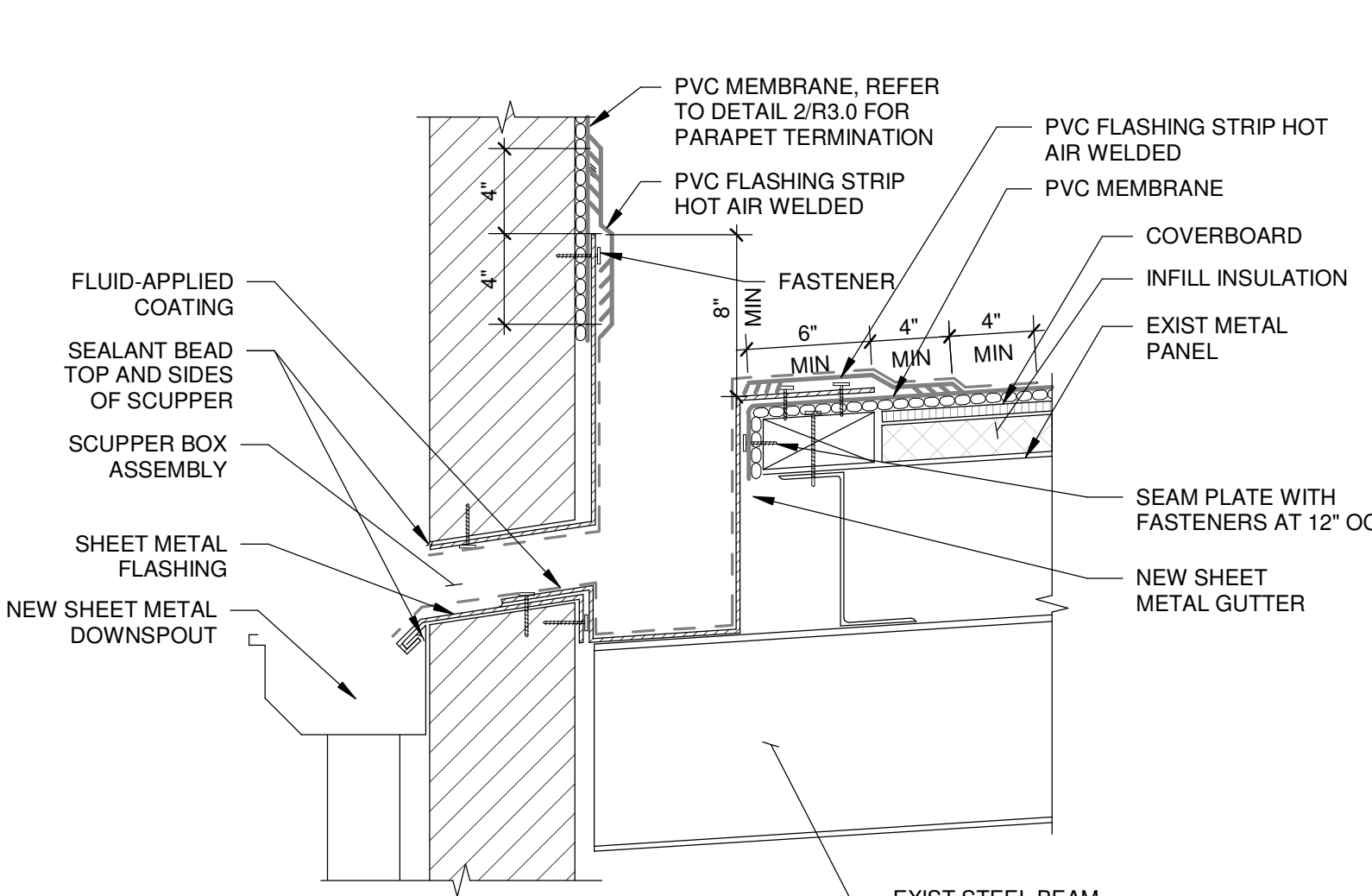


- NOTES:
1. PROVIDE WOOD BLOCKING AS NECESSARY TO PROVIDE MINIMUM HEIGHT OF VERTICAL WALL FLASHING AS SHOWN. INSTALL SUPPLEMENTAL WOOD BLOCKING IN A MANNER THAT PROVIDES A CONSISTENT HEIGHT ACROSS THIS ROOF PERIMETER EDGE.
 2. SEE GENERAL NOTES FOR DEFERRING DESIGN REQUIREMENTS FOR ATTACHMENT OF SUPPLEMENTAL WOOD BLOCKING.

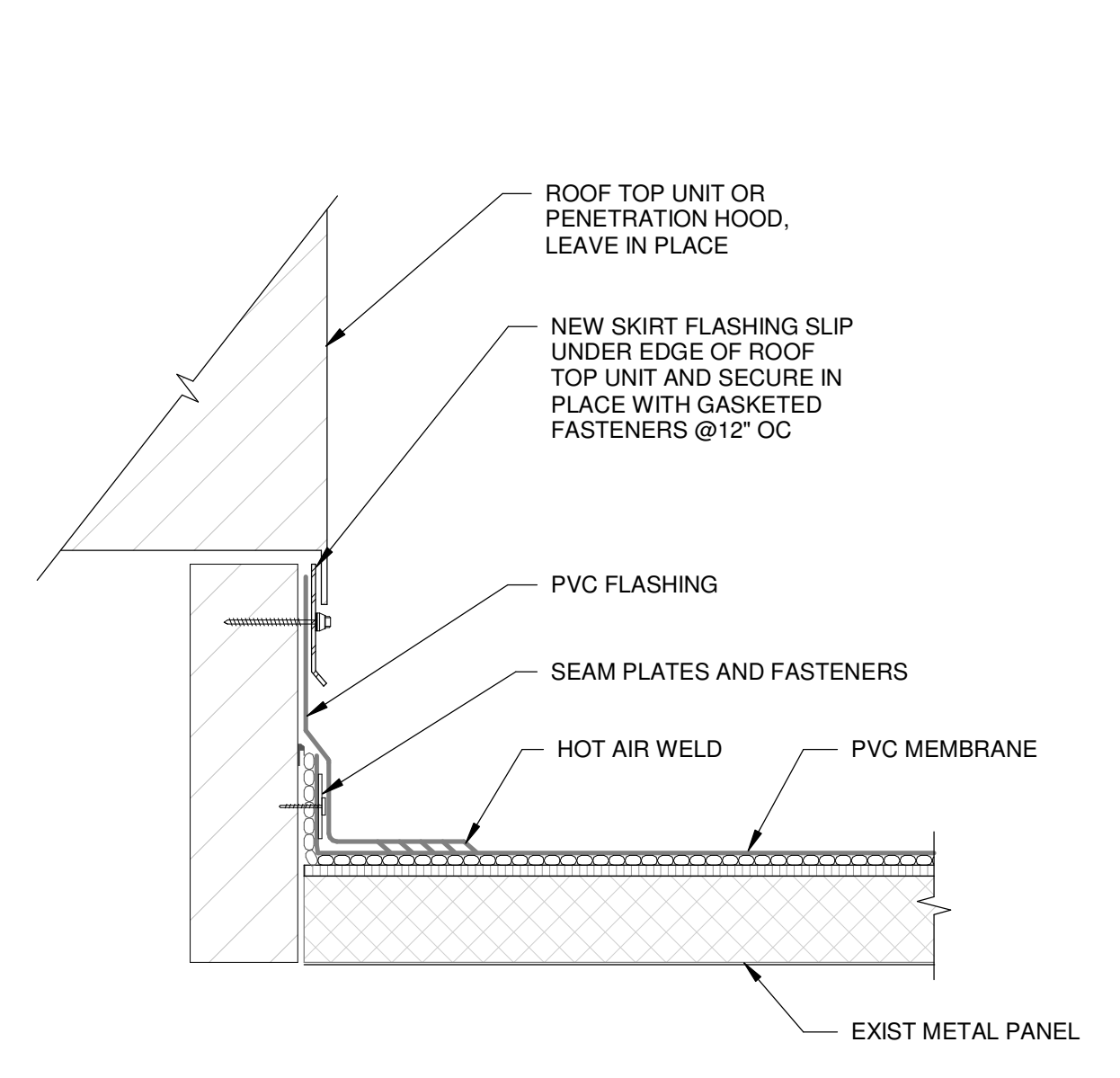
2 FLASHING AT PARAPET
NO SCALE



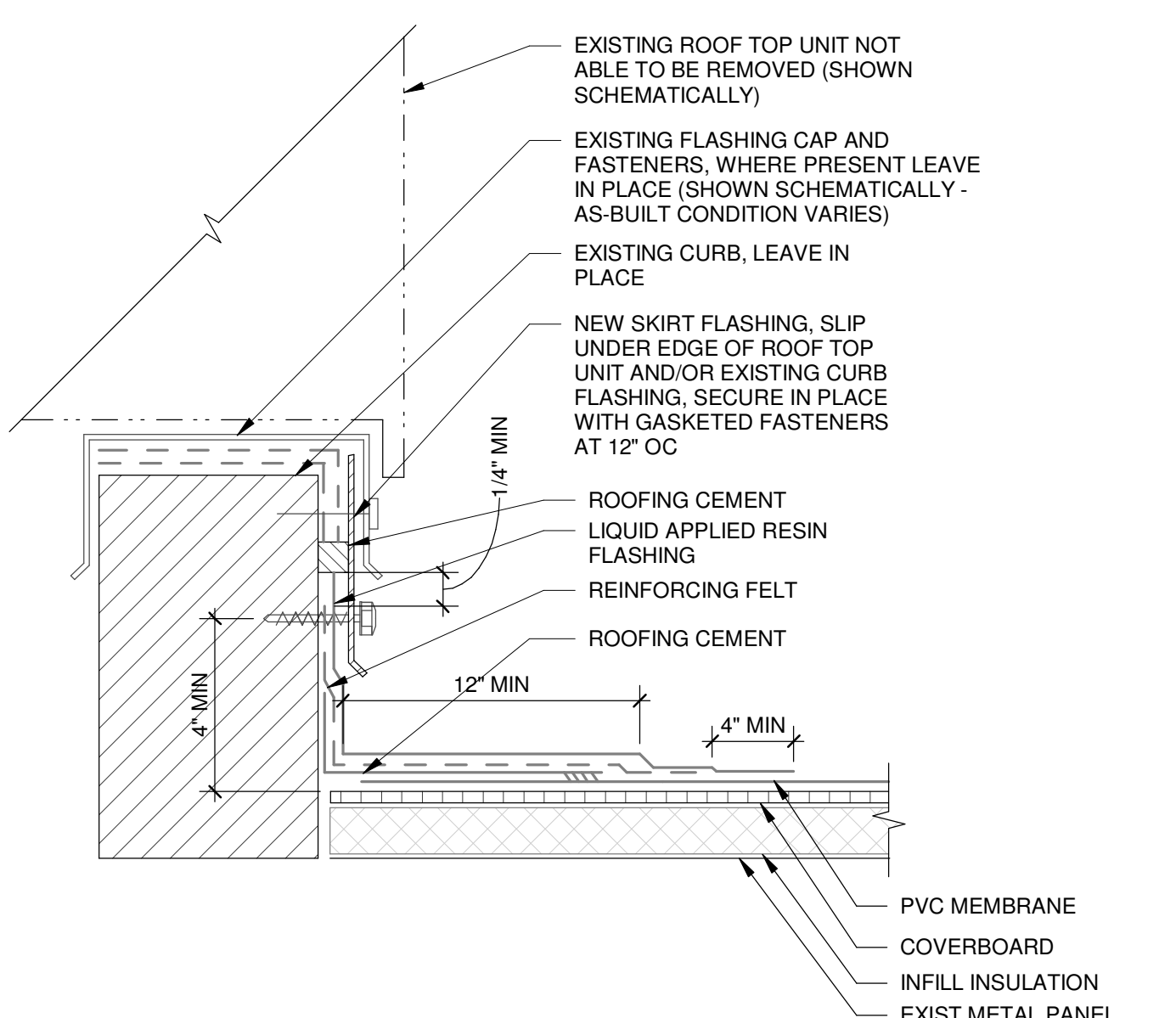
3 FLASHING AT GUTTER
NO SCALE



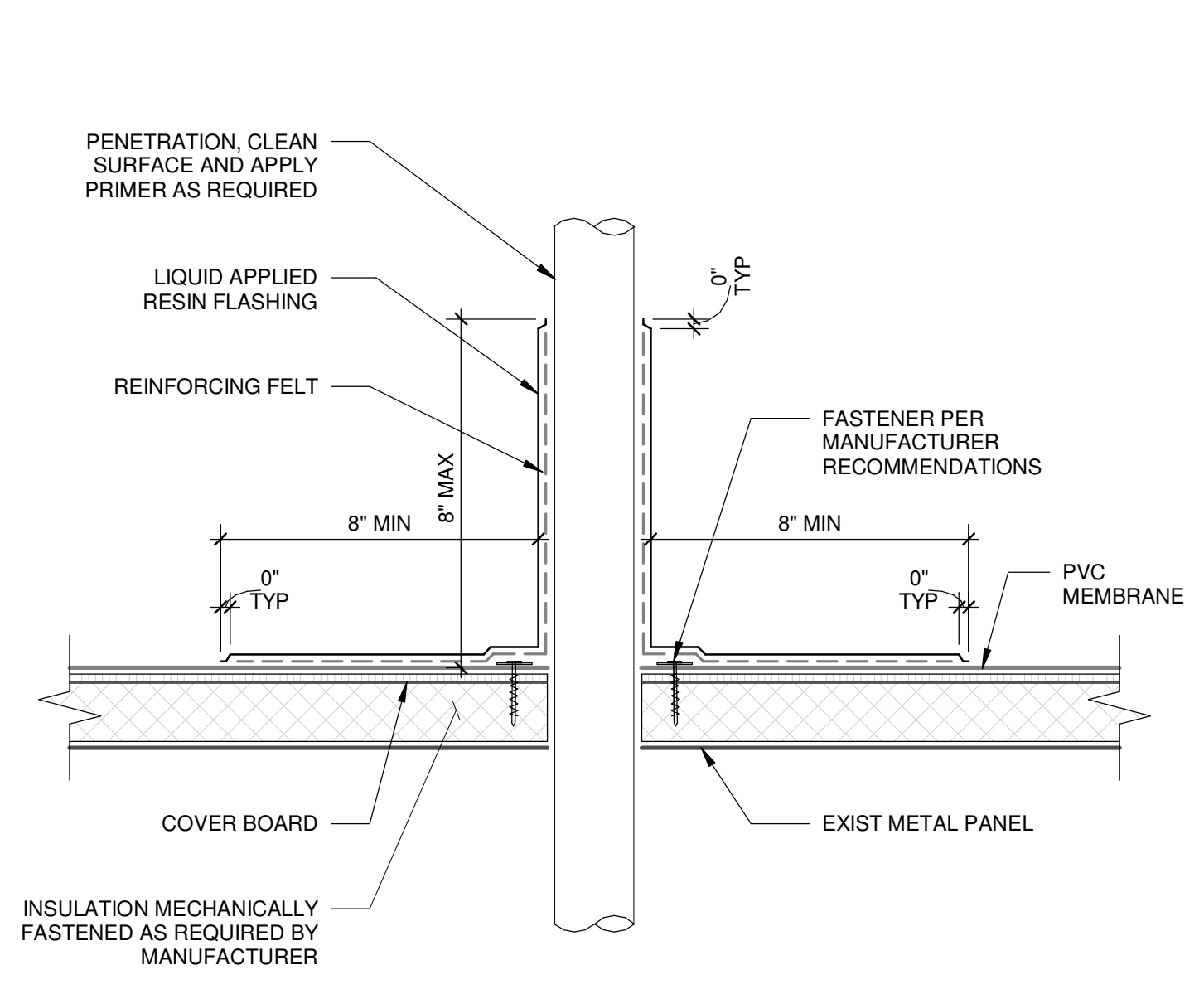
4 FLASHING AT GUTTER
NO SCALE



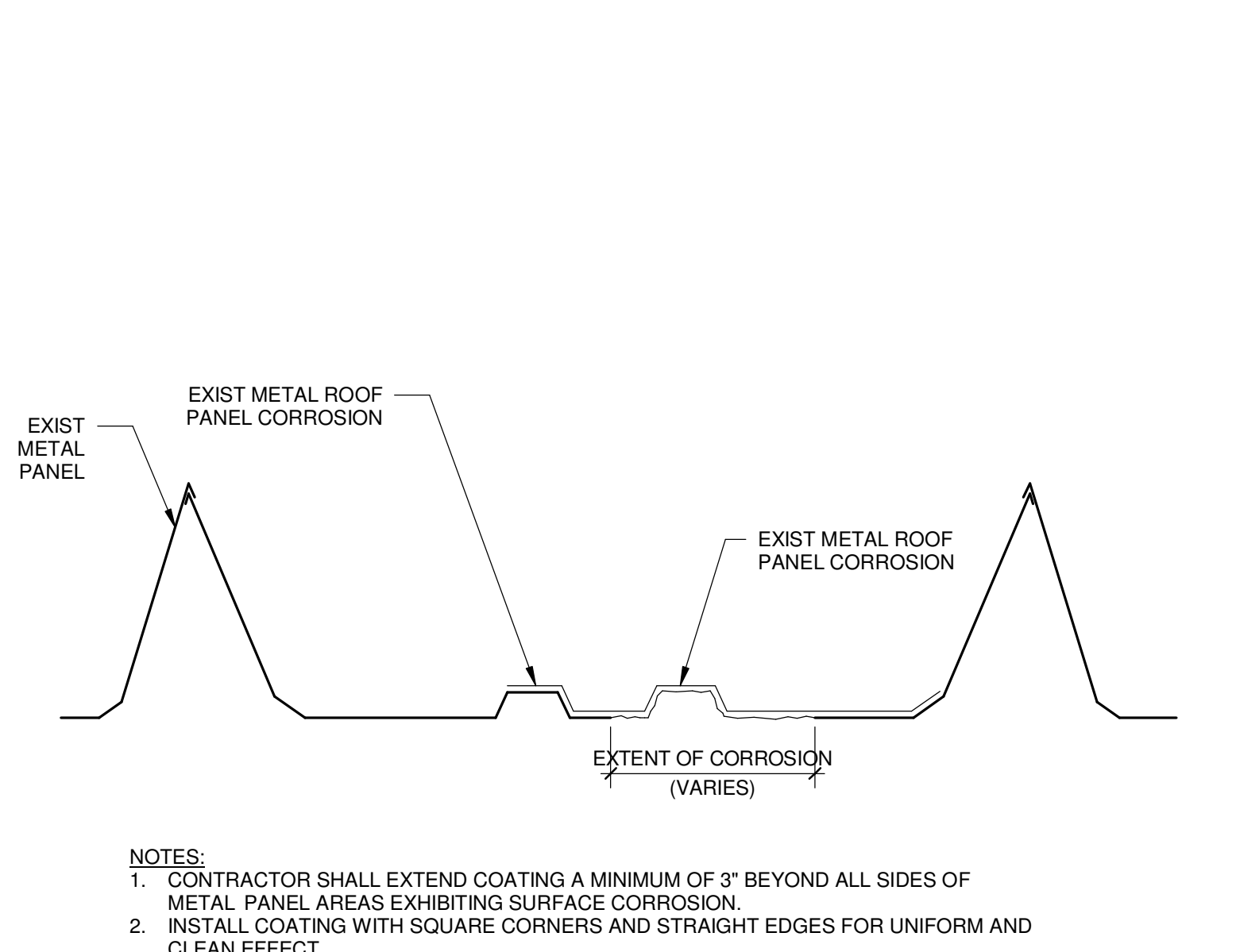
5 FLASHING AT RTU CURB ≥ 8"
NO SCALE



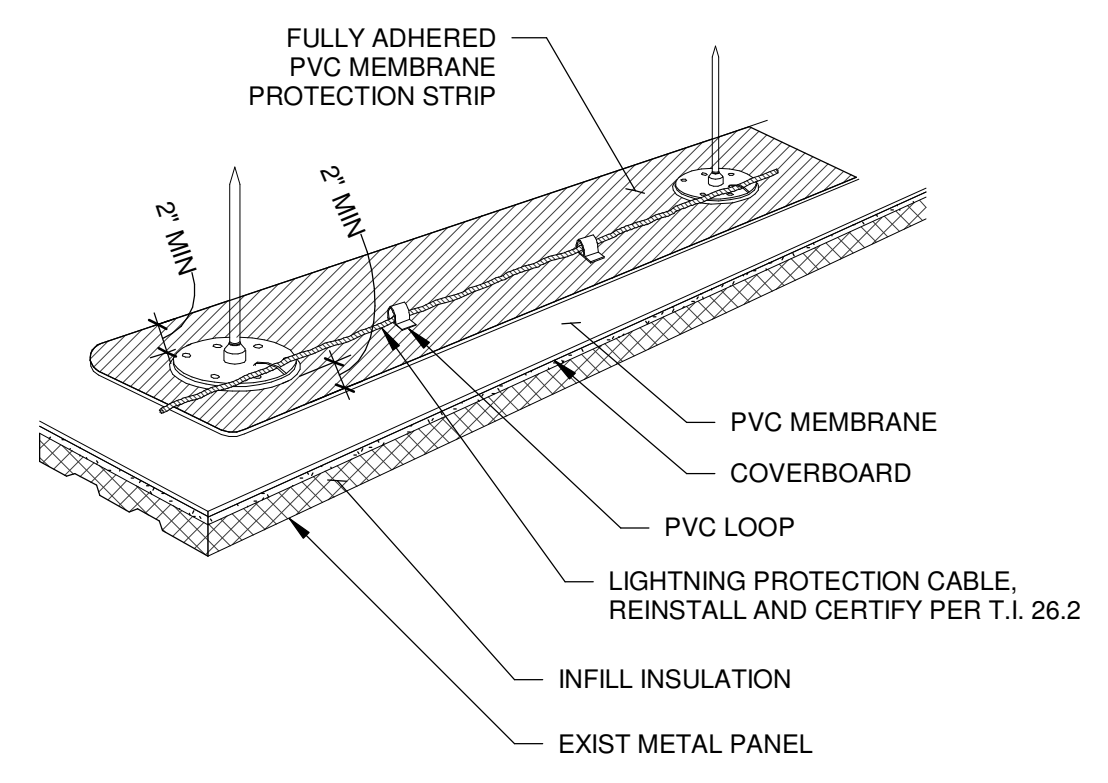
6 FLASHING AT RTU CURB < 8"
NO SCALE



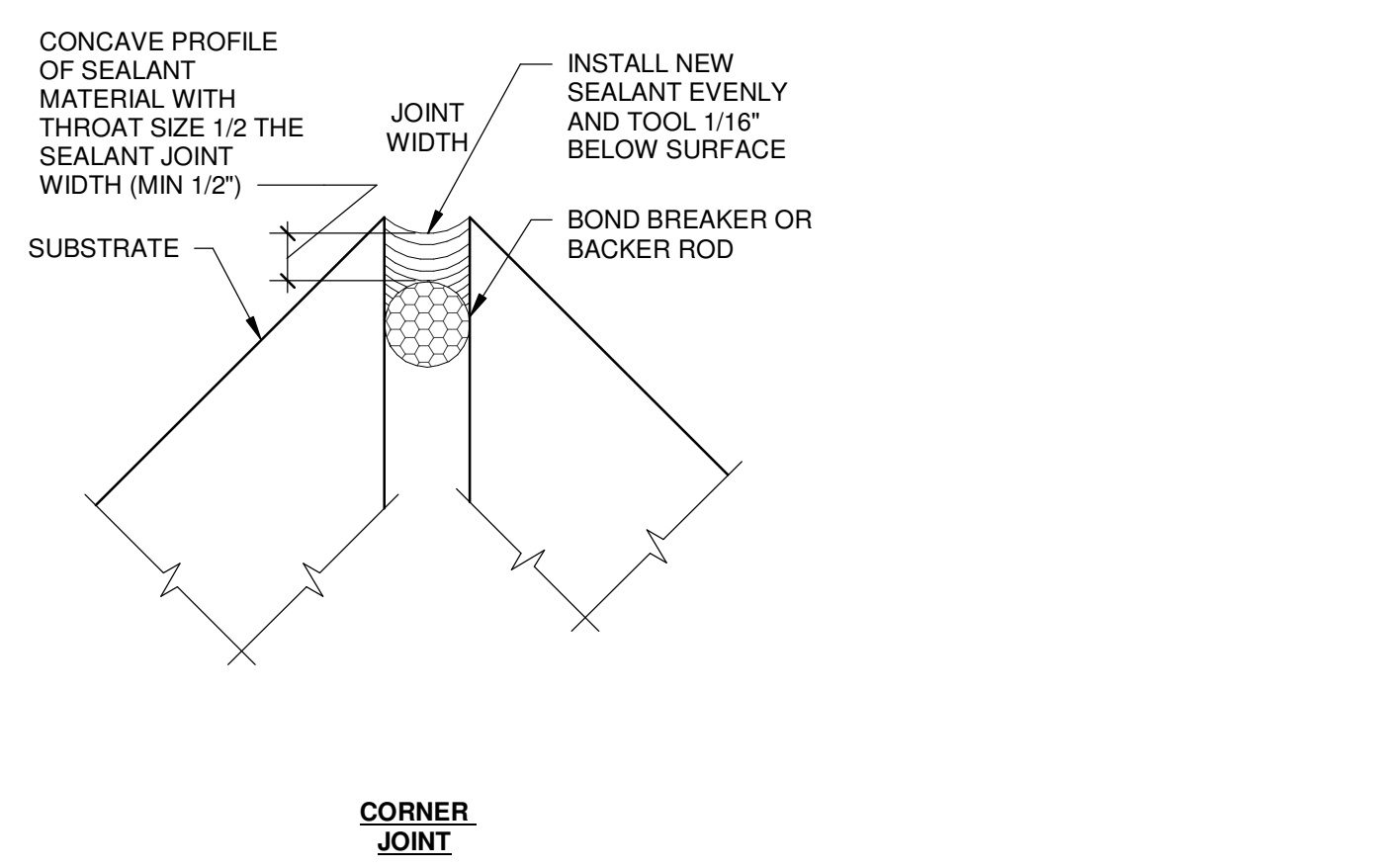
7 TYPICAL PENETRATION DETAIL
NO SCALE



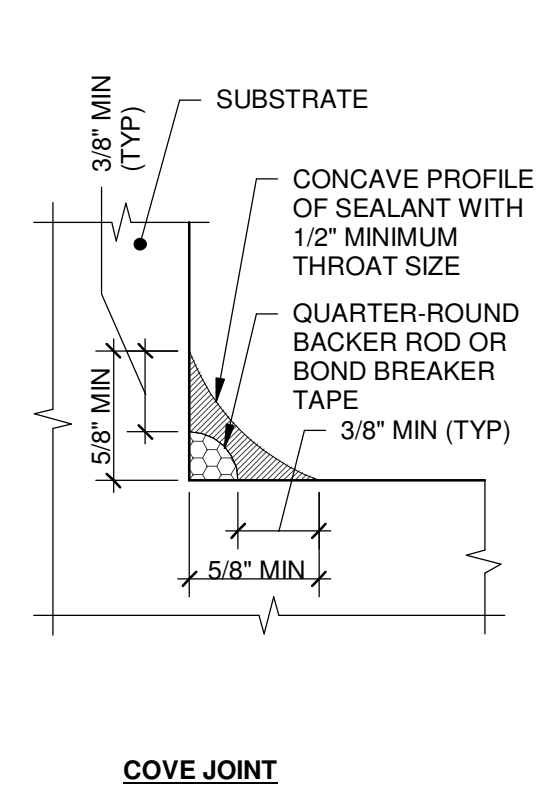
8 METAL PANEL CORROSION REPAIR, TYP
NO SCALE



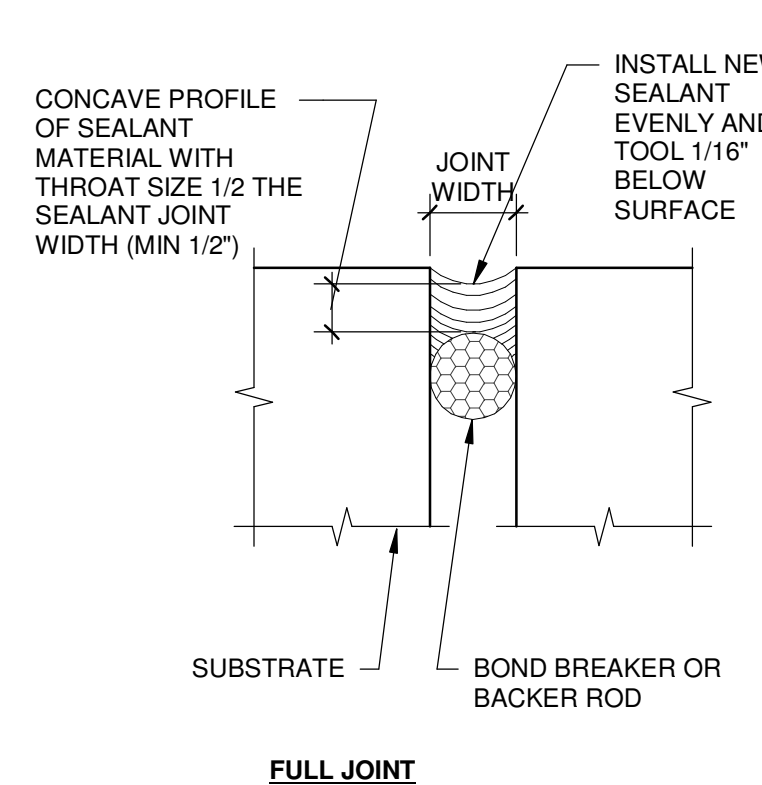
10 TYPICAL LIGHTENING PROTECTION SYSTEM
NO SCALE



CORNER JOINT



COVE JOINT



FULL JOINT

- NOTES:
1. REMOVE EXISTING JOINT SEALANT AND BACKER ROD MATERIAL IF PRESENT. CLEAN ALL SURFACES WITHIN JOINT BEFORE FILLING WITH SEALANT SUCH THAT THERE ARE NO OLD RESIDUAL MATERIALS, DUST, OR CONTAMINANTS ON THE INSIDE SURFACES OF THE JOINT.
 2. INSTALL BOND BREAKER AND/OR BACKER ROD TO A UNIFORM DEPTH. INSTALLATION OF WAVY OR NON-UNIFORM BOND BREAKER/BACKER ROD WILL NOT BE ACCEPTABLE.
 3. DO NOT OVERFILL THE JOINT.
 4. REFER TO SPECIFICATIONS FOR SEALANT TYPE AND OTHER REQUIREMENTS.
 5. TOOL JOINT CONCAVE.
 - 6.

12 JOINT SEALANT REPLACEMENT AT WALL
NO SCALE

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