OMEGA PANEL PRODUCTS Ω
LAMINATORS INC.

www.LaminatorsInc.com
877.OMEGA.77 • fax: 215.721.4678
3255 Penn Street, Hatfield, PA 19440

IMPORTANT NOTICE

The following document is NOT comprehensive for design, bidding, or installation when used in isolation. Please refer to all related documents in their entirety for complete information regarding this ACM panel system. Such documents include, but may not be limited to, Technical Guides, Architectural Color Chart, Approved Materials List, Systems Guides, Technical Bulletins, Technical Data Sheets, CAD Drawings, Specifications, and Submittals. Visit LaminatorsInc.com for information on the latest documents regarding this panel system.

To consult directly with one of our Professional Engineers regarding our ACM panel systems, contact Laminators Technical Support between the hours of 8:00am – 5:00pm EST:

800.523.2347
LaminatorsInc.com
engineering@laminatorsinc.com

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DRAWING INDEX – OCI-CMU DETAIL SET (Rev 00, 03/30/2020)

DWG NO.	TITLE	REV DATE	REV	CHANGE FROM PREVIOUS REV
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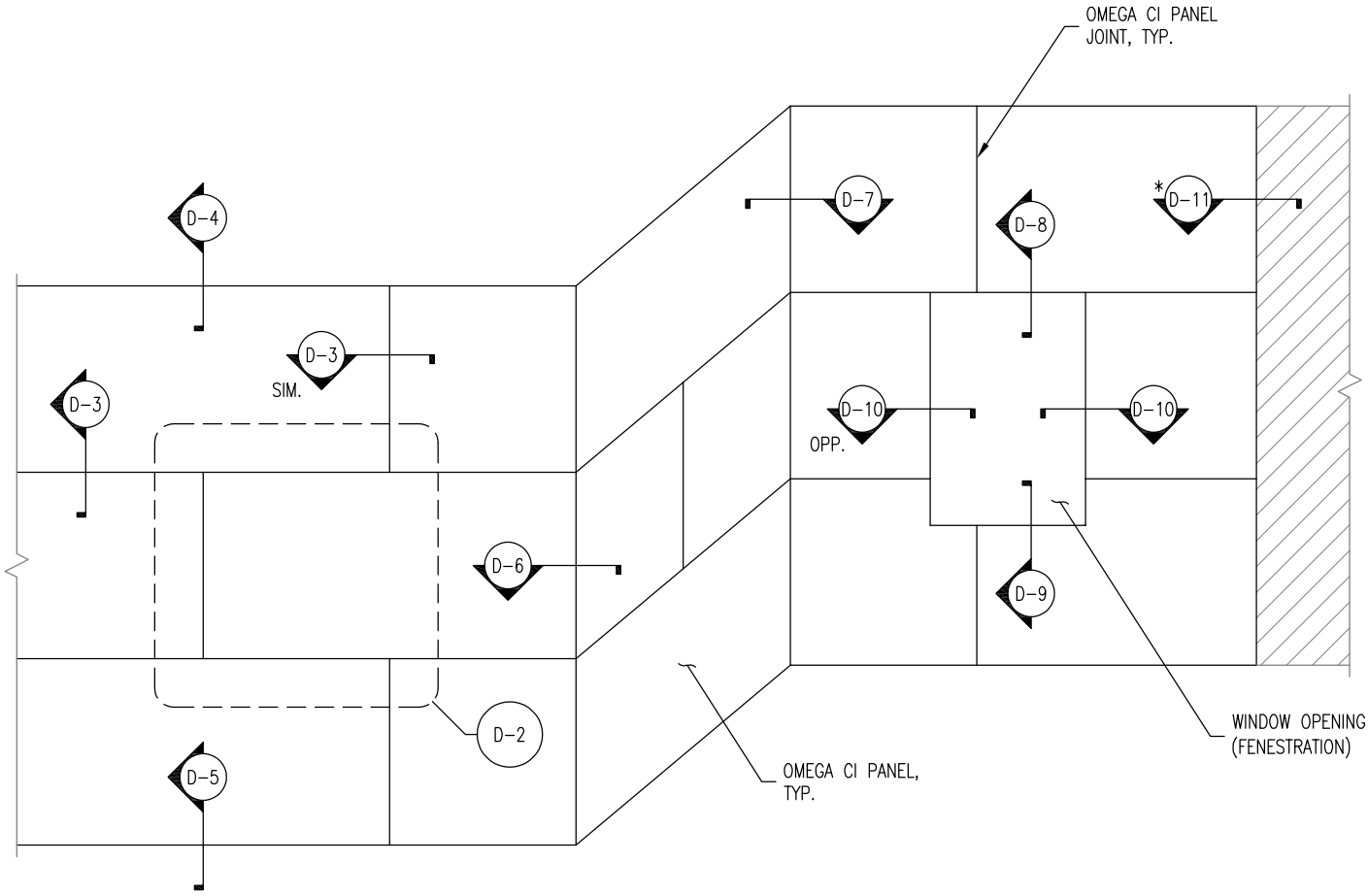
D-2	Layout and Fastening Requirements	3/30/2020	00	
D-3	Joint Detail	3/30/2020	00	
D-4	Top of Wall Detail	3/30/2020	00	
D-5	Base of Wall Detail	3/30/2020	00	
D-6	Outside Corner Detail	3/30/2020	00	
D-7	Inside Corner Detail	3/30/2020	00	
D-8	Window Head Detail	3/30/2020	00	
D-9	Window Sill Detail	3/30/2020	00	
D-10	Window Jamb Detail	3/30/2020	00	
D-11.1	Vertical Edge Detail (Adjacent to New)	3/30/2020	00	
D-11.2	Vertical Edge Detail (Adjacent to Existing)	3/30/2020	00	



OVERALL ELEVATION

GENERAL NOTES:

1. DETAILS FOR OMEGA CI (PART NO. OCI-2.1-48) INSTALLATION OVER CMU OR CONCRETE SUBSTRATES PROVIDED FOR GENERAL INSTALLATION ONLY; DESIGN PROFESSIONAL OF RECORD TO ADDRESS OVERALL WALL ASSEMBLY FIRE-RATING PERFORMANCE REQUIREMENTS
2. INSTALLATION LIMITED TO THE FOLLOWING SUBSTRATES:
   A. NORMAL WEIGHT ASTM C90 CMU BLOCK (HOLLOW OR GROUTED) WITH MINIMUM COMPRESSIVE STRENGTH (f'm) = 2,000 PSI AND MINIMUM FACE SHELL THICKNESS = 1-1/4"
   B. NORMAL WEIGHT CONCRETE WITH MINIMUM COMPRESSIVE STRENGTH (f'c) = 2,500 PSI
3. CMU AND CONCRETE SUBSTRATES MUST BE EVALUATED BY A QUALIFIED FACADE/ENVELOPE CONSULTANT AND THE DESIGN PROFESSIONAL OF RECORD FOR STRUCTURAL COMPETENCY
4. OMEGA CI STANDARD PANEL THICKNESS IS 2.1 INCH
5. REFER TO D-2 FOR PANEL LAYOUT AND FASTENING REQUIREMENTS
6. * DENOTES SECTIONS WITH AT LEAST (2) CONFIGURATIONS AVAILABLE (EX. D-11.1, D-11.2, ETC)

IMPORTANT NOTICE

PROJECT-SPECIFIC COMPONENTS AND CLADDING WIND LOADS (REQUIRED STRENGTH, Ra) SHALL NOT EXCEED AVAILABLE LOAD-CARRYING CAPACITY OF RIGID INSULATION PANELS (ALLOWABLE STRENGTH, Rn/Ω) OF 60 PSF

A. PROJECT-SPECIFIC COMPONENTS AND CLADDING WIND LOADS (REFERRED TO AS WIND LOADS IN EL-2.0, 2.1, 3.0, & 3.1) ARE TO BE DETERMINED BY THE DESIGN PROFESSIONAL OF RECORD
B. AVAILABLE LOAD-CARRYING CAPACITY OF RIGID INSULATION PANELS (60 PSF) IS BASED ON ALLOWABLE STRENGTH DESIGN (ASD) METHOD
C. FOR PROJECT-SPECIFIC COMPONENTS AND CLADDING WIND LOADS GREATER THAN 60 PSF, CONTACT LAMINATORS TECHNICAL SUPPORT FOR PROJECT-SPECIFIC DETAILING REQUIREMENTS

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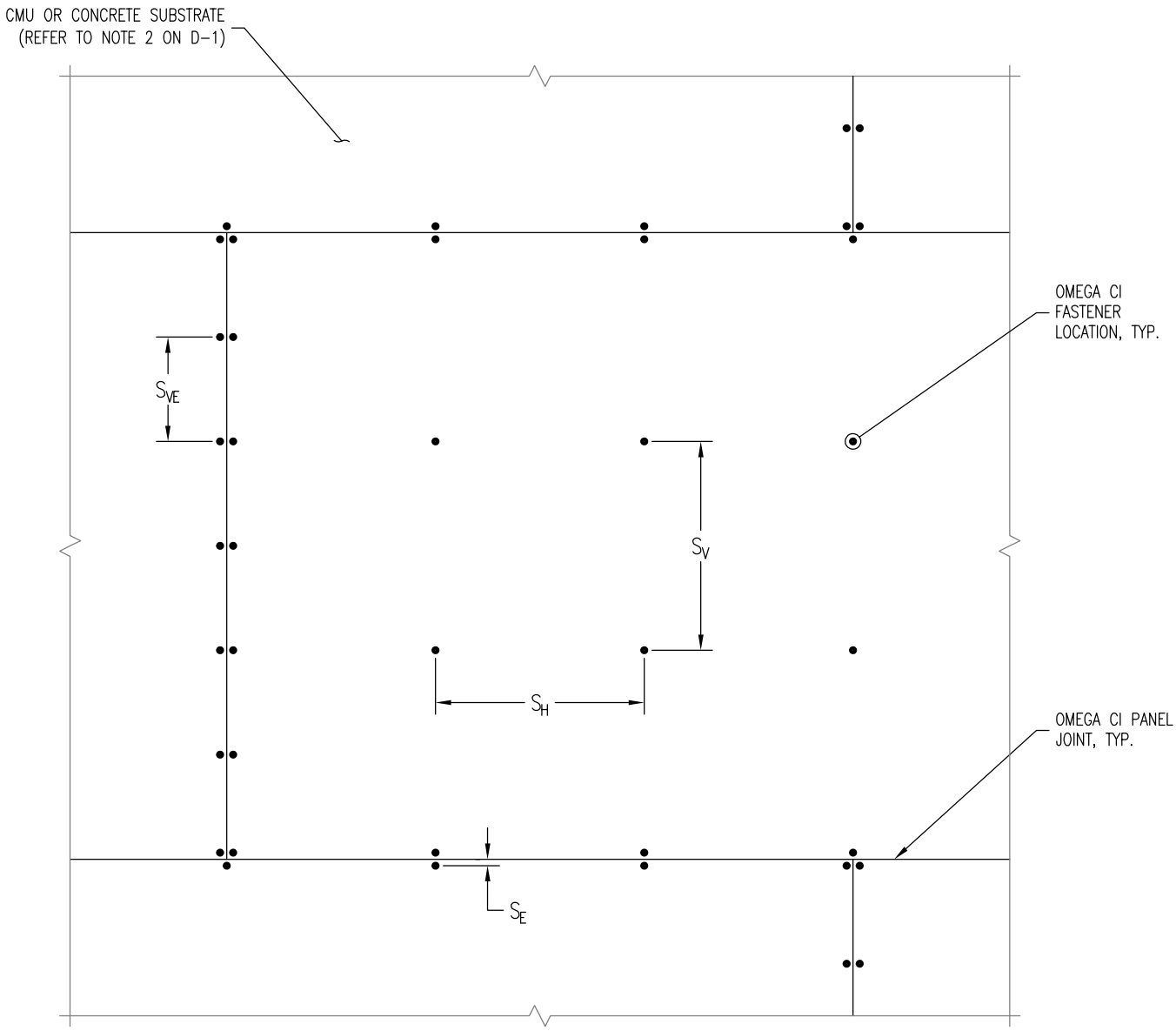
OVERALL ELEVATION

OMEGA CI RIGID INSULATION PANELS
OVER CMU OR CONCRETE

Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-1	00



PARTIAL ELEVATION

OMEGA CI RIGID INSULATION PANEL INSTALLATION:

1. LAYOUT REQUIREMENTS:
   - A. ORIENT PANELS HORIZONTALLY IN A RUNNING BOND PATTERN WITH A 16" (MIN) JOINT OFFSET
   - B. MAINTAIN 1/8" GAP BETWEEN ADJACENT PANELS TO ALLOW FOR THERMAL EXPANSION OF PANEL PLYWOOD SHEATHING LAYER
2. FASTENING REQUIREMENTS:
   - A. FASTEN OMEGA CI (PART NO. OCI-2.1-48) TO CMU OR CONCRETE SUBSTRATE USING 1/4" X 4" CONCRETE SCREW ANCHORS (PART NO. OCI-FASTENER-4"CMU/CONCRETE)
   - B. THICKER VERSIONS OF OMEGA CI REQUIRE LONGER CONCRETE SCREW ANCHORS (CONTACT LAMINATORS TECHNICAL SUPPORT FOR ADDITIONAL INFORMATION REGARDING ANCHOR SIZING)
   - C. CONCRETE SCREW ANCHORS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
   - D. FASTENER SPACING TO BE BASED ON WIND LOADS
     - WIND LOADS UP TO 60 PSF (ASD):
       - HORIZONTAL SPACING WITHIN FIELD OF PANEL (S_H): 16" O.C. (MAX)
       - VERTICAL SPACING WITHIN FIELD OF PANEL (S_V): 16" O.C. (MAX)
       - VERTICAL SPACING ALONG EDGE OF PANEL (S_{VE}): 8" O.C. (MAX)
       - FASTENER EDGE DISTANCE (S_E): 1/4" (MIN) TO 2" (MAX) FOR PANELS NOT AT SUBSTRATE ENDS/EDGES
         1" (MIN) EDGE DISTANCE REQUIRED AT ENDS/EDGES OF CONCRETE
         2" (MIN) EDGE DISTANCE REQUIRED AT ENDS/EDGES OF CMU BLOCK

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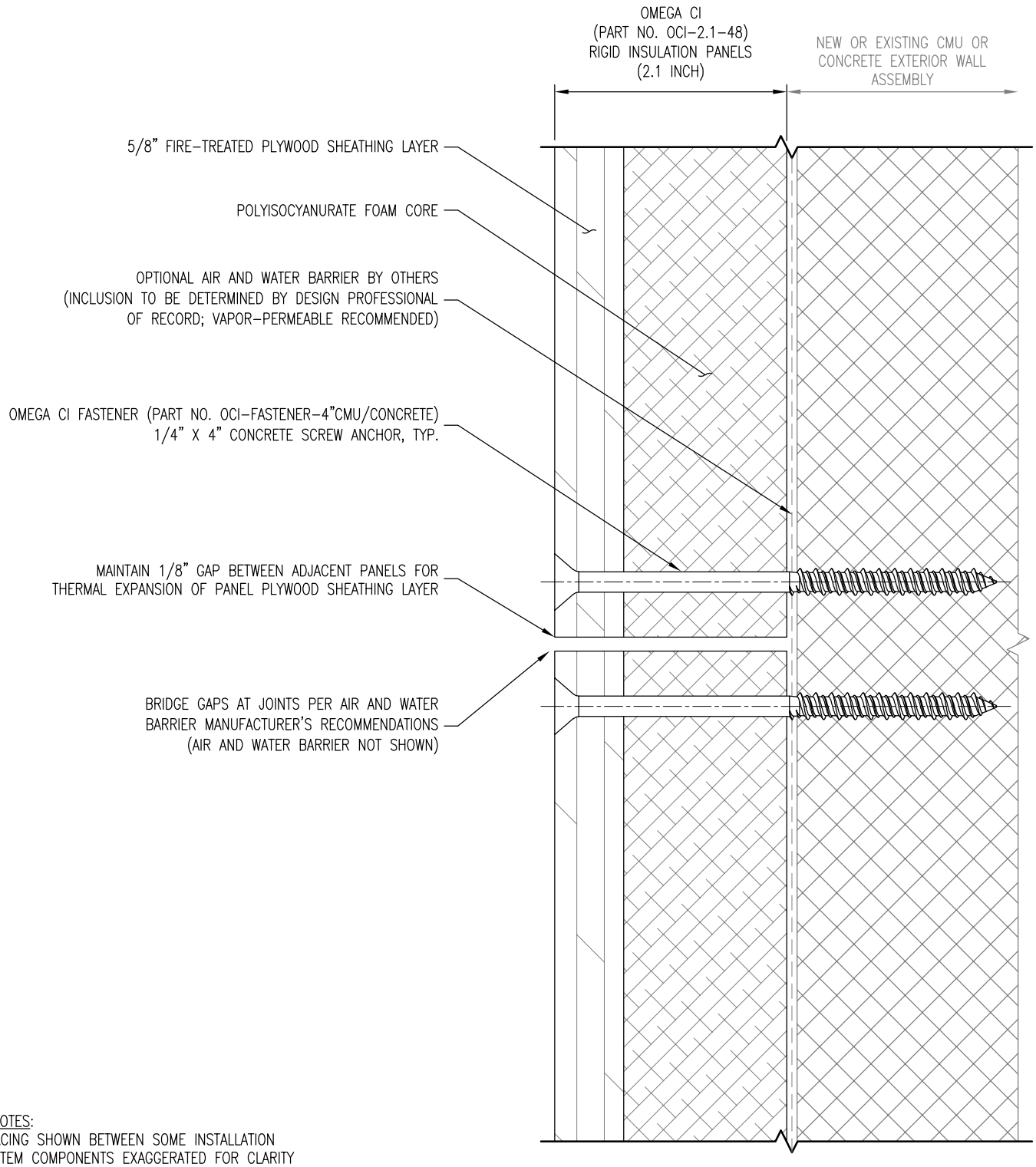
LAYOUT AND FASTENING REQUIREMENTS

OMEGA CI RIGID INSULATION PANELS OVER CMU OR CONCRETE

Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-2	00

NOTE: THIS DETAIL IS APPLICABLE ALONG BOTH HORIZONTAL AND VERTICAL PANEL JOINTS



SECTION

DETAIL NOTES:
1. SPACING SHOWN BETWEEN SOME INSTALLATION SYSTEM COMPONENTS EXAGGERATED FOR CLARITY
2. AIR AND WATER BARRIER APPLIED TO SURFACE OF OMEGA CI TO BE VAPOR PERMEABLE
3. REFER TO D-2 FOR LAYOUT AND FASTENING REQUIREMENTS

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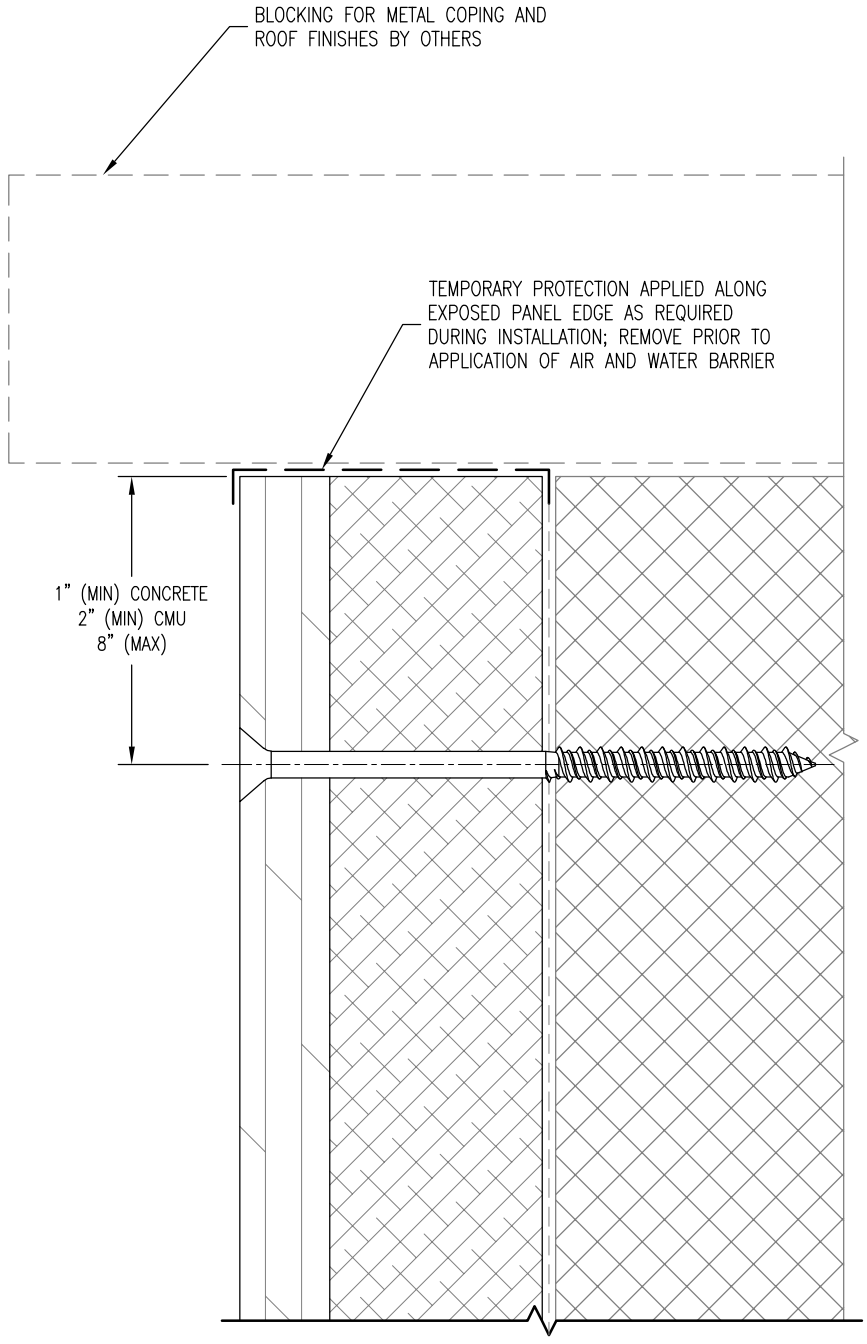
JOINT DETAIL

OMEGA CI RIGID INSULATION PANELS OVER CMU OR CONCRETE

Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-3	00



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4. REFER TO D-3 FOR TYPICAL COMPONENTS NOT ANNOTATED

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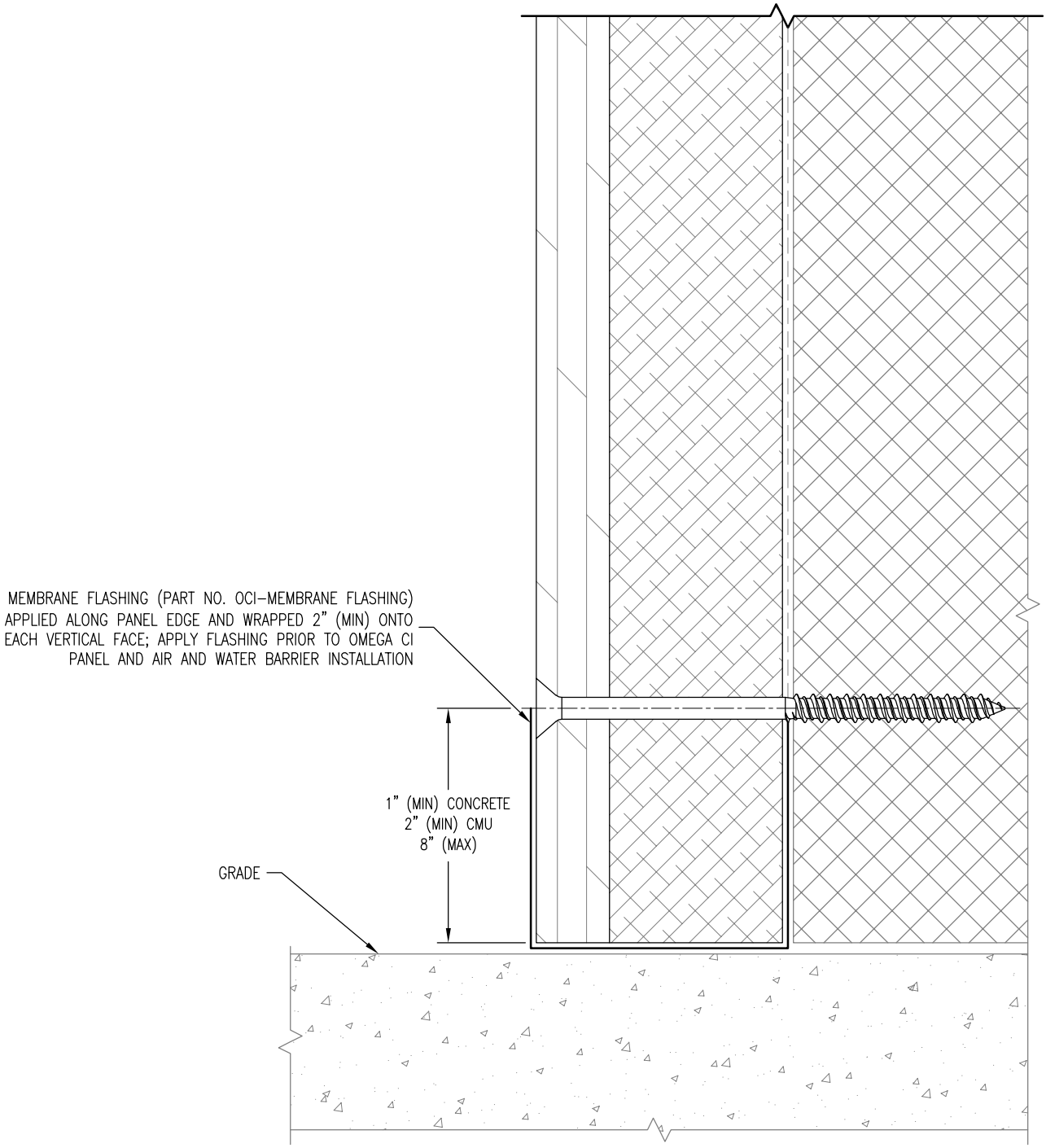
TOP OF WALL DETAIL

OMEGA CI RIGID INSULATION PANELS OVER CMU OR CONCRETE

Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-4	00



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SECTION

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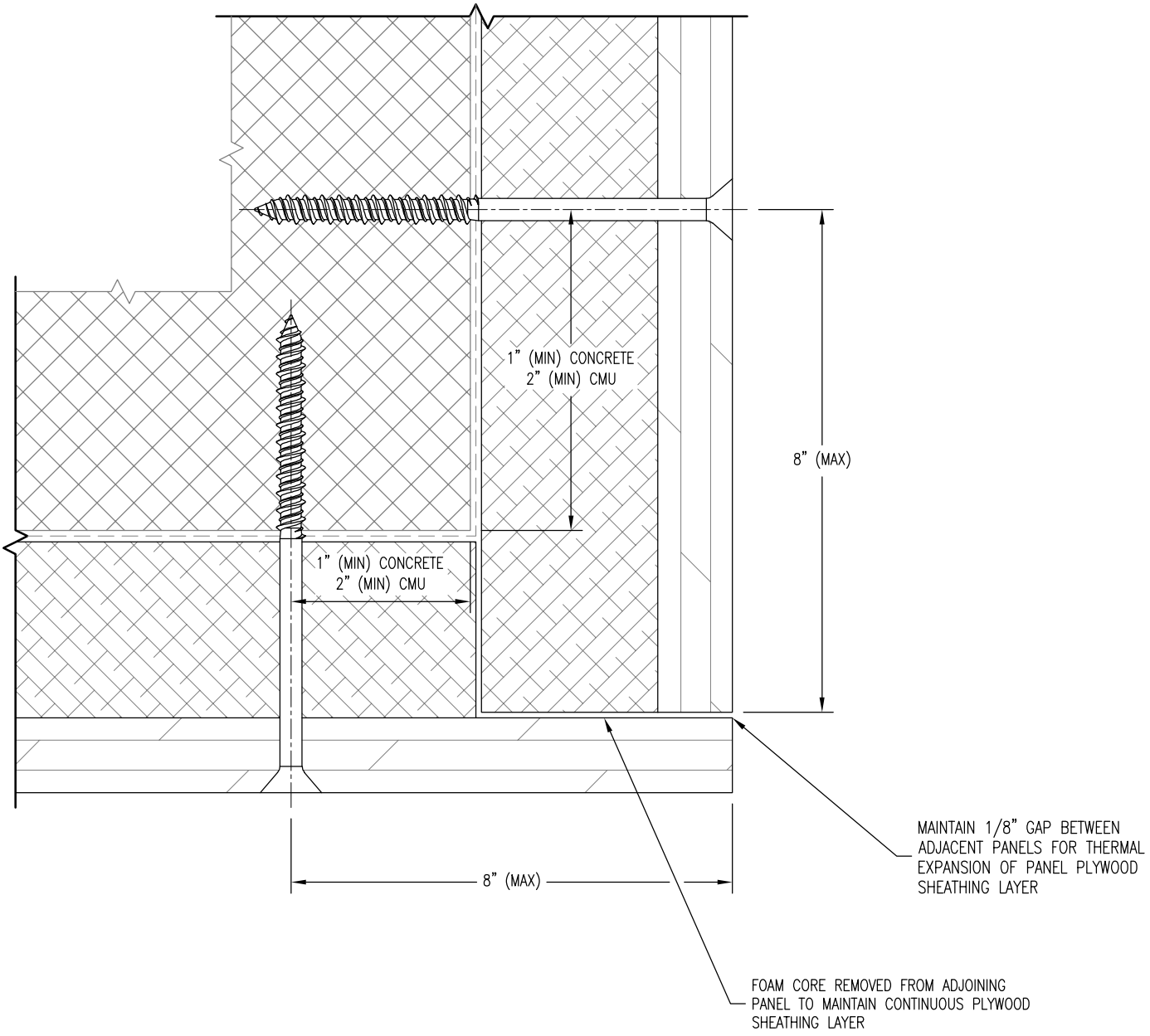
BASE OF WALL DETAIL

OMEGA CI RIGID INSULATION PANELS OVER CMU OR CONCRETE

Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-5	00



PLAN SECTION

DETAIL NOTES:

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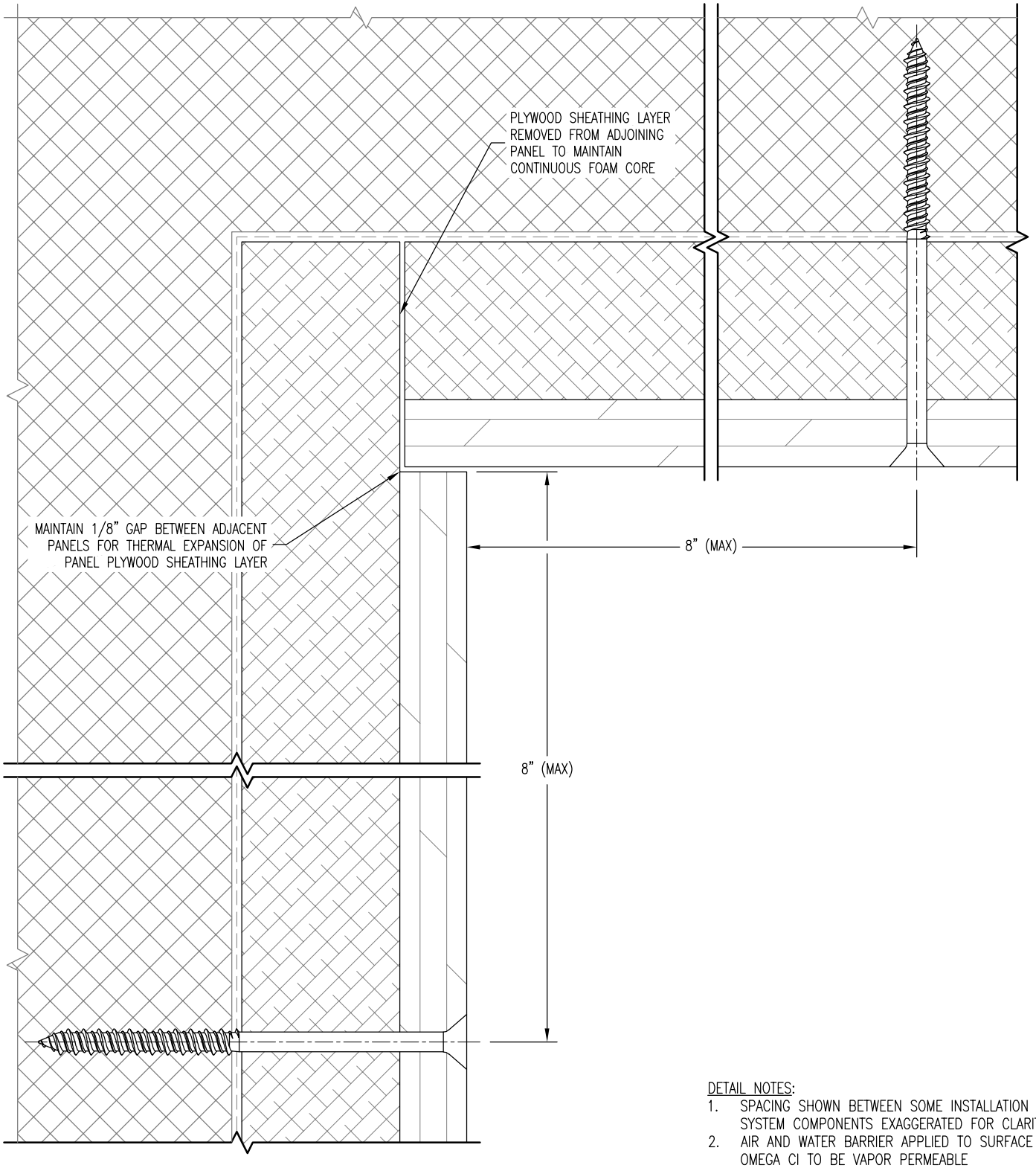
OUTSIDE CORNER DETAIL

OMEGA CI RIGID INSULATION PANELS OVER CMU OR CONCRETE

Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-6	00



PLAN SECTION

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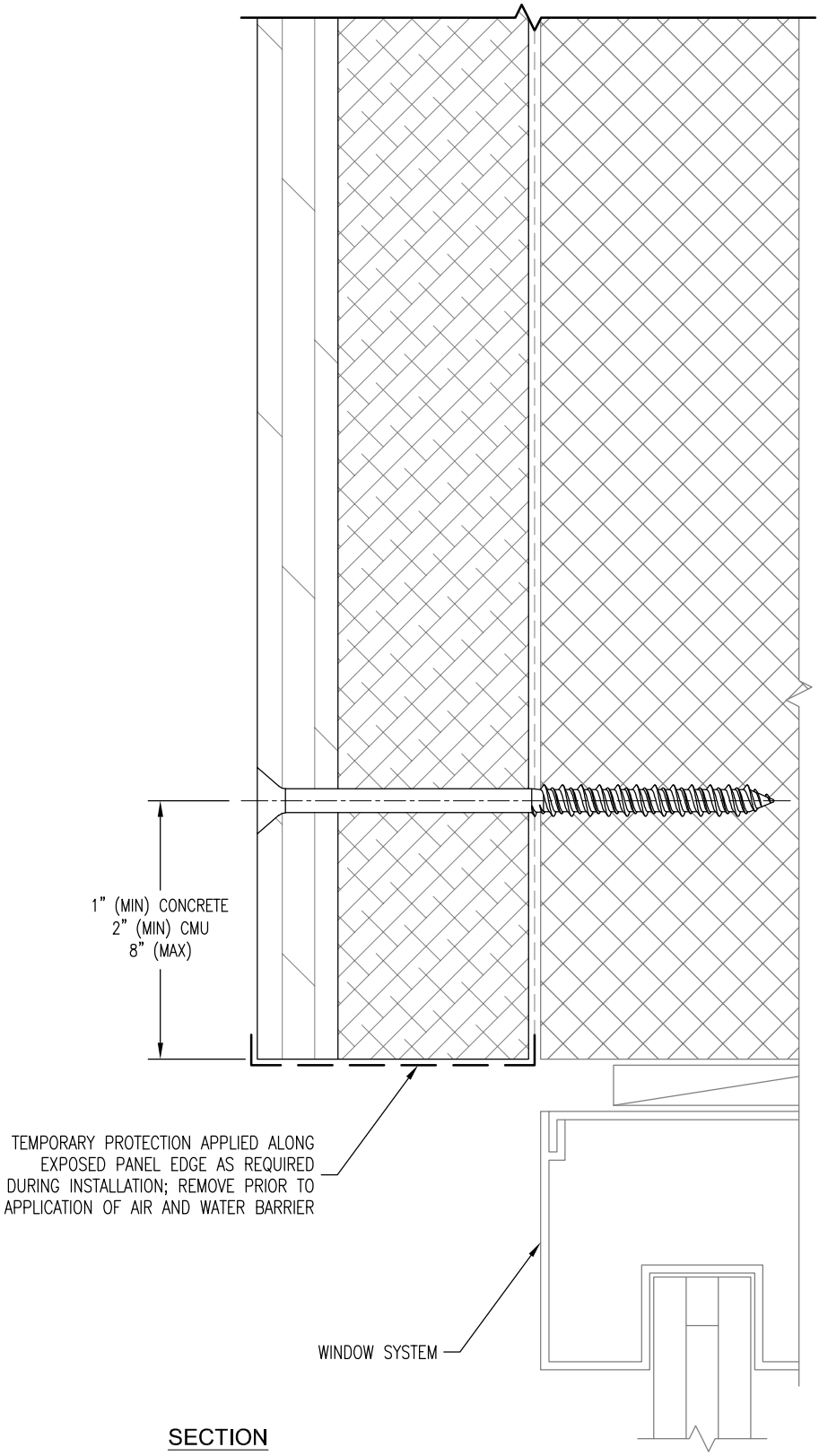
INSIDE CORNER DETAIL

OMEGA CI RIGID INSULATION PANELS OVER CMU OR CONCRETE

Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-7	00



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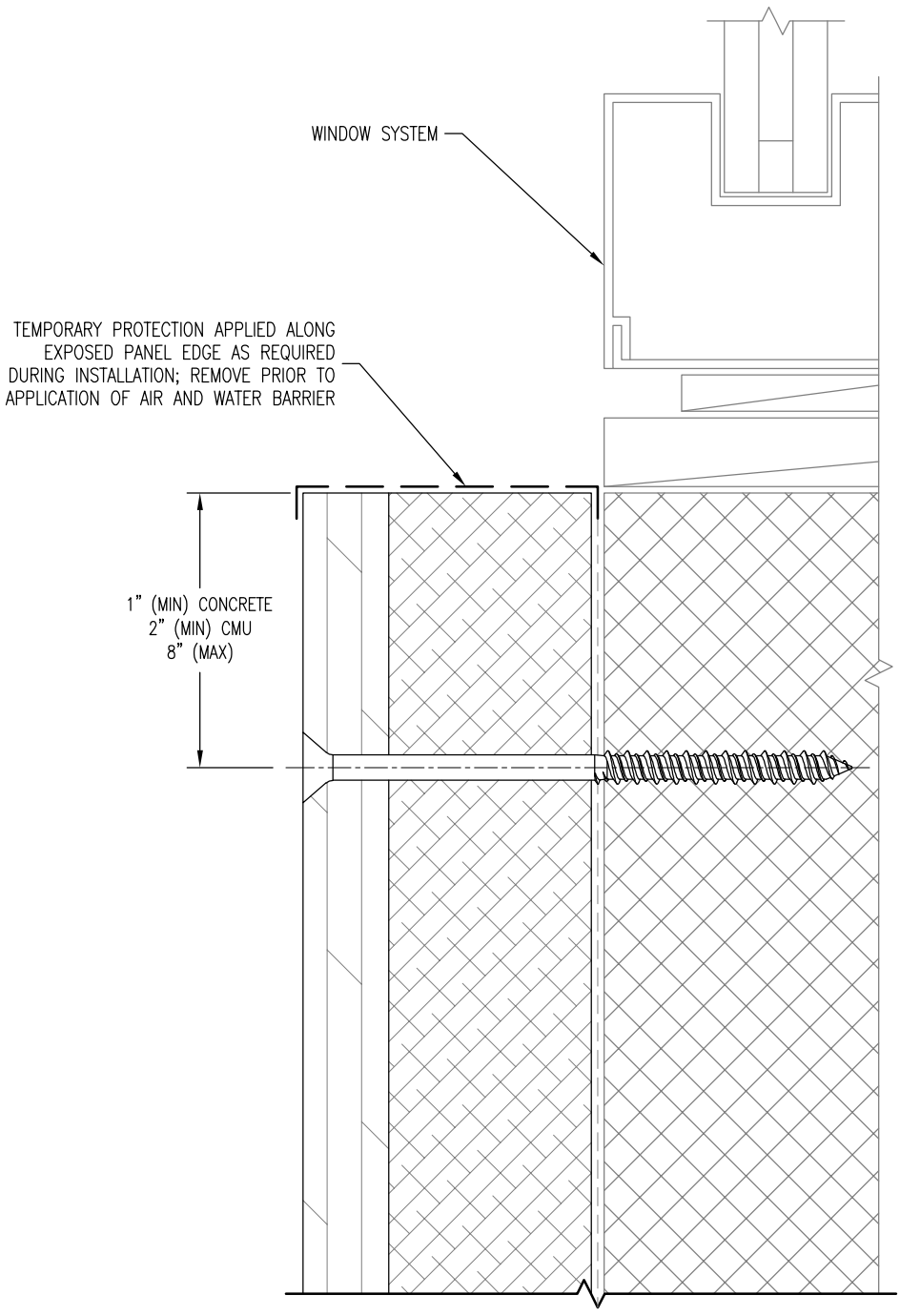
WINDOW HEAD DETAIL

OMEGA CI RIGID INSULATION PANELS OVER CMU OR CONCRETE

Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-8	00



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WINDOW SILL DETAIL

OMEGA CI RIGID INSULATION PANELS OVER CMU OR CONCRETE

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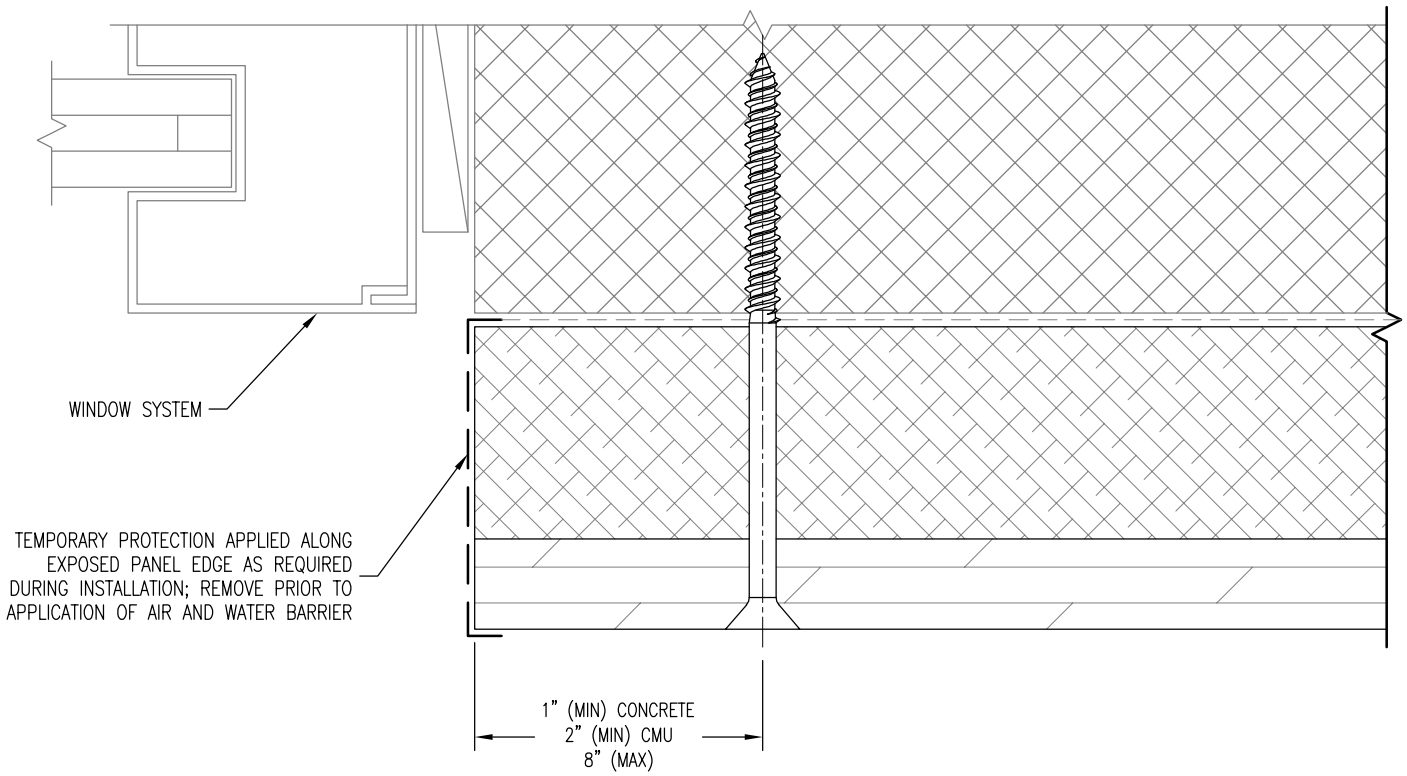
3/30/2020	JJM	OCI-CMU	D-9	00



PLAN SECTION

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WINDOW JAMB DETAIL

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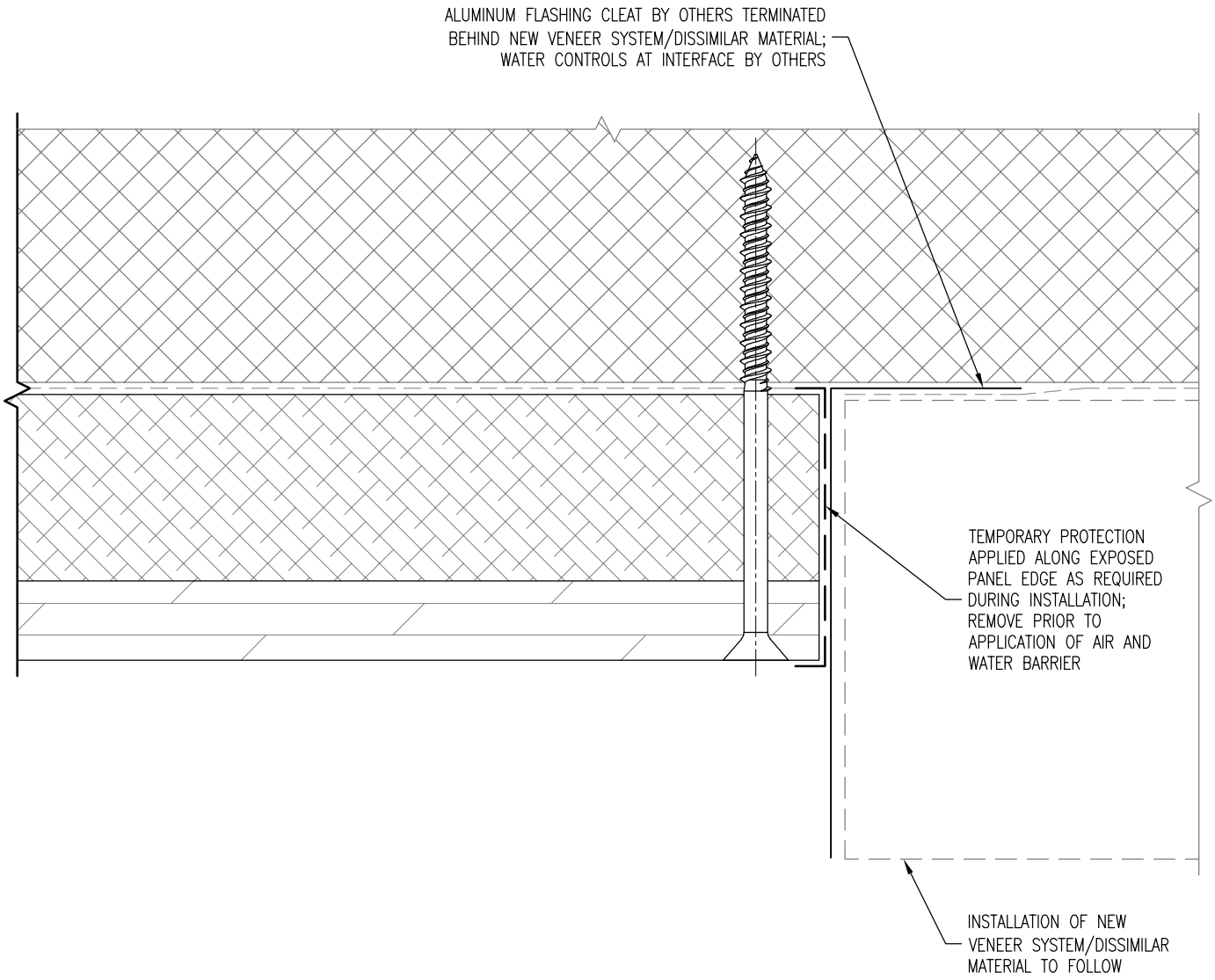
Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-10	00



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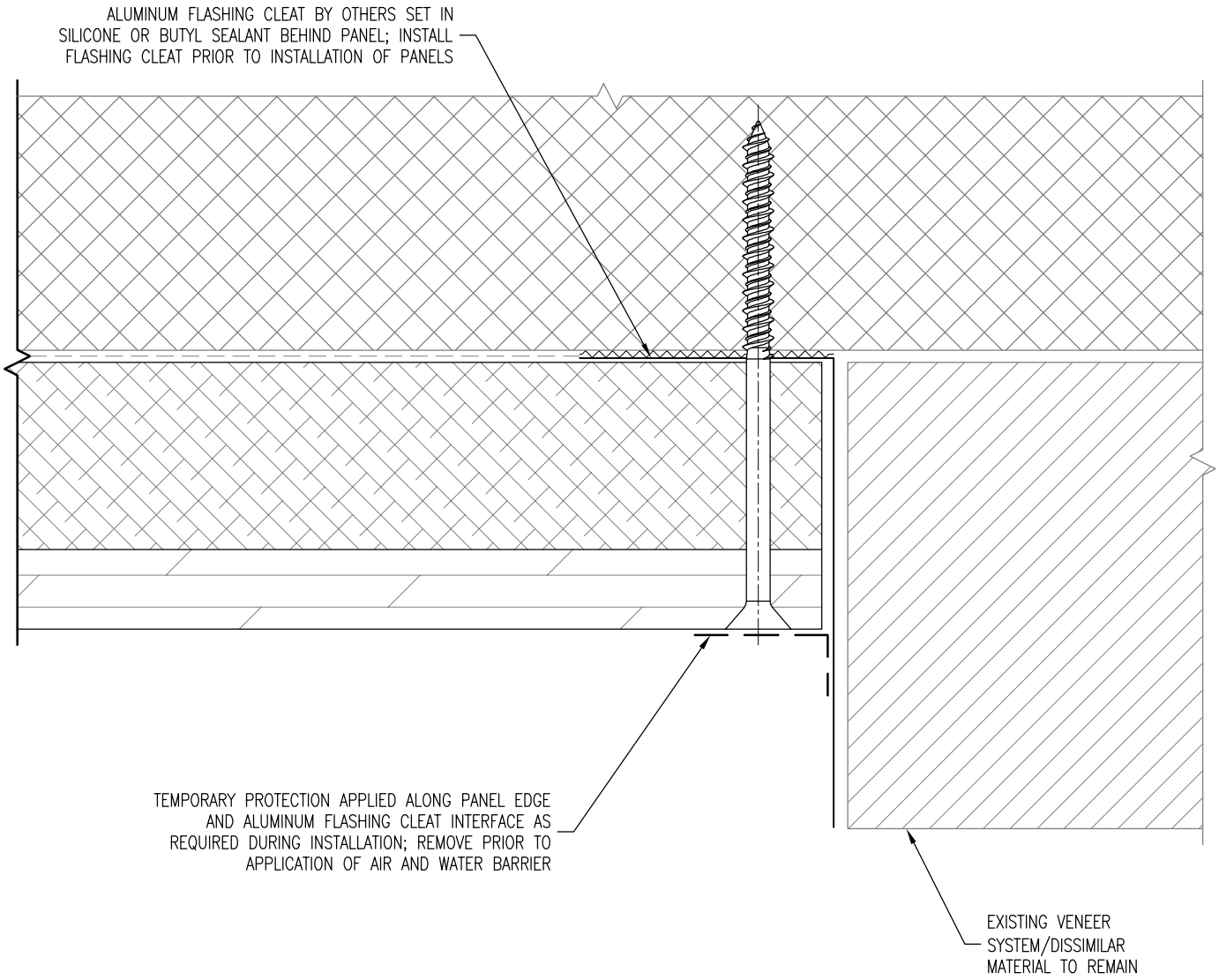
VERTICAL EDGE DETAIL (ADJACENT TO NEW)

OMEGA CI RIGID INSULATION PANELS OVER CMU OR CONCRETE

Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-11.1	00



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VERTICAL EDGE DETAIL (ADJACENT TO EXISTING)

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Date:	Drawn By:	Detail Set:	Dwg. No.:	Rev:
3/30/2020	JJM	OCI-CMU	D-11.2	00