

KLOVER WEATHER GUARD STANDARD CURTAIN WALL STUD DETAILS

Sheet Number

Sheet Name

KWG-C-ST-01	MULTI-STORY VERTICAL PANELS STACKED
KWG-C-ST-02	MULTI-STORY VERTICAL PANELS STACKED 2 HR.
KWG-C-ST-03	SPANDREL PANEL W/SUPPORT BRACE AT WINDOW HEAD
KWG-C-ST-04	SPANDREL PANEL W/SUPPORT BRACE AT WINDOW HEAD 2 HR.
KWG-C-ST-05	SPANDREL PANEL WITH FIXED CLIP FLOOR SUPPORT
KWG-C-ST-06	SPANDREL PANEL WITH FIXED CLIP FLOOR SUPPORT 2 HR.
KWG-C-ST-07	SPANDREL PANEL WITH INFILL WINDOWS
KWG-C-ST-08	SPANDREL PANEL WITH INFILL WINDOWS 2 HR.
KWG-C-ST-09	PARAPET WITH FOUNDATION SUPPORTED WALL PANEL
KWG-C-ST-10	PARAPET WITH FOUNDATION SUPPORTED WALL PANEL 2 HR.



1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

INDEX SHEET LIST

Scale

Date:

06/29/21

KWG-C-INDEX-01

KLOVER WEATHER GUARD STANDARD CURTAIN WALL FRAMED OPENING DETAILS

Sheet Number	Sheet Name
KWG-C-FO-01	WINDOW HEADER & SILL DETAIL
KWG-C-FO-02	WINDOW HEADER & SILL DETAIL 2 HR.
KWG-C-FO-03	WINDOW JAMB
KWG-C-FO-04	WINDOW JAMB 2 HR.
KWG-C-FO-05	DOOR HEADER
KWG-C-FO-06	DOOR HEADER ALTERNATE
KWG-C-FO-07	DOOR HEADER 2 HR.
KWG-C-FO-08	DOOR HEADER 2 HR. ALTERNATE
KWG-C-FO-09	DOOR JAMB
KWG-C-FO-10	DOOR JAMB ALTERNATE
KWG-C-FO-11	DOOR JAMB 2 HR.
KWG-C-FO-12	DOOR JAMB 2 HR. ALTERNATE
KWG-C-FO-13	DOOR HEADER WITH BLOCKING 2 HR. ALTERNATE
KWG-C-FO-14	WINDOW BOXED HEAD & SILL WITH BLOCKING
KWG-C-FO-15	WINDOW BOXED HEAD & SILL WITH BLOCKING 2 HR.
KWG-C-FO-16	WINDOW & CURTAIN WALL JAMB WITH BLOCKING
KWG-C-FO-17	WINDOW & CURTAIN WALL JAMB WITH BLOCKING 2 HR.

KLOVER WEATHER GUARD STANDARD CURTAIN WALL PANEL JOINT DETAILS

Sheet Number	Sheet Name
KWG-C-PJ-01	PANEL JOINTS- EXTERIOR
KWG-C-PJ-02	PANEL JOINTS - EXTERIOR 2 HR.
KWG-C-PJ-03	PANEL JOINT - VAPOR BARRIER FIELD TAPING OVER SHEATHING
KWG-C-PJ-04	PNL JNT - VAPOR BARRIER FIELD TAPING OVER SHEATHING 2 HR.



1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

INDEX SHEET LIST

Scale

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KWG-C-INDEX-02

DISCLAIMER

THESE DETAILS ARE BASED ON INDUSTRY ACCEPTED PRACTICES AND PROVIDE GENERAL GUIDELINES FOR PREFABRICATED COLD FORMED METAL FRAMING (CFMF) ASSEMBLIES, APPLICATIONS, INSTALLATION AND ASSOCIATED COMPONENTS. THESE DETAILS ARE PROVIDED FOR GENERAL INFORMATIONAL PURPOSES ONLY AND ARE NOT PROJECT SPECIFIC.

MANY DETAILS CONTAIN ITEMS MARKED "BY OTHERS" WHICH MEANS THEY ARE NOT SUPPLIED BY KLOVER (UNLESS SPECIFICALLY IDENTIFIED AND AGREED TO BY CONTRACT). THE PURPOSE IN INCLUDING THESE ITEMS IS TO SHOW GENERAL DESIGN CONCEPTS BETWEEN THE VARIOUS COMPONENTS TYPICALLY SUPPLIED BY DIFFERENT VENDORS AS PART OF WALL, FLOOR OR ROOF ASSEMBLIES AND JUNCTURES.

IT IS THE RESPONSIBILITY OF THE ARCHITECT TO PROVIDE THE PROPER DESIGN INTENT. ALL COMPONENTS SHOWN MUST BE DESIGNED AND INSTALLED PER THE LICENSED ENGINEER OF RECORD AND SPECIALTY STRUCTURAL ENGINEER FOR EVERY PROJECT.



1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

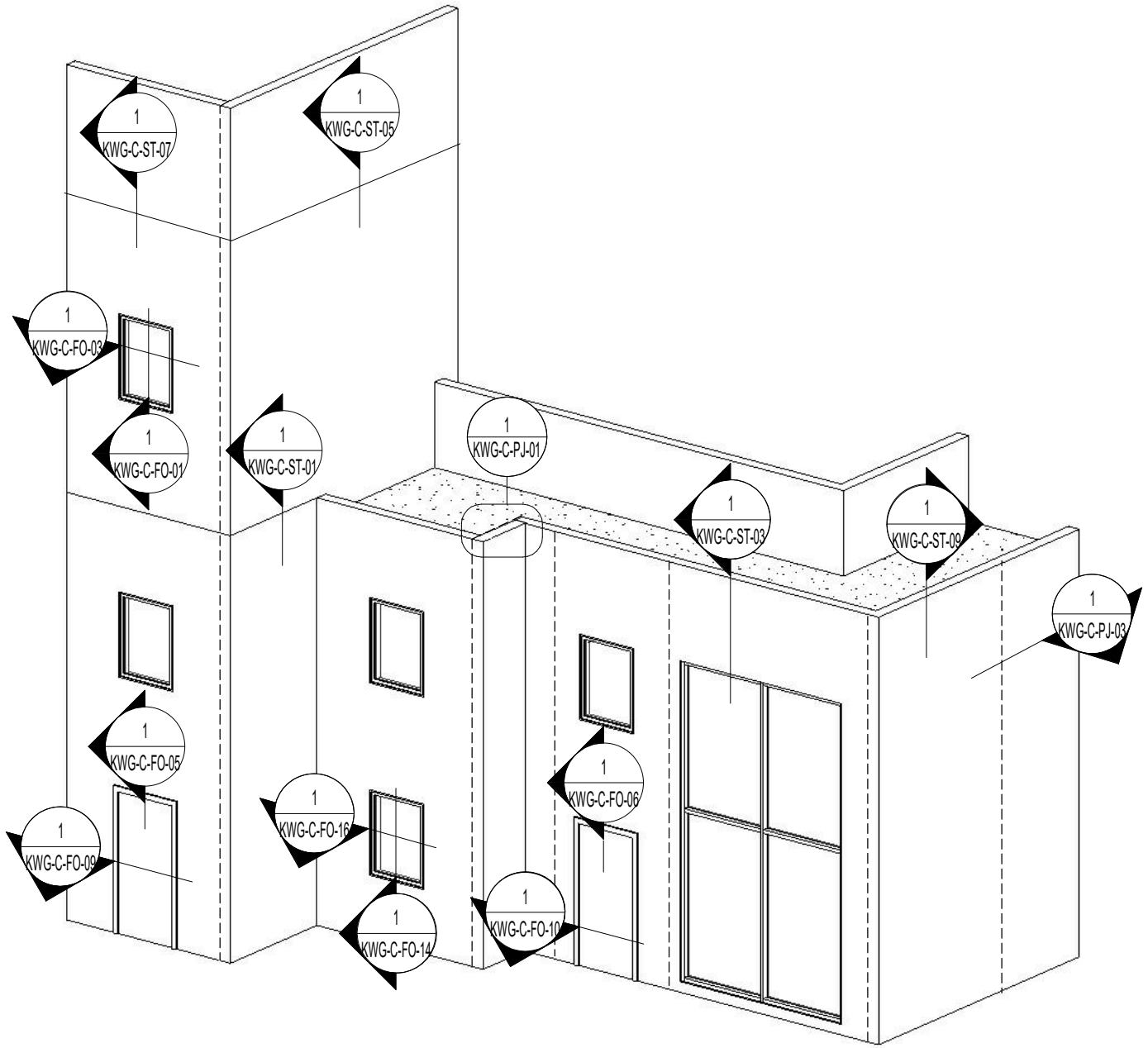
INDEX SHEET DISCLAIMER

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Date:

06/29/21

KWG-C-INDEX-03



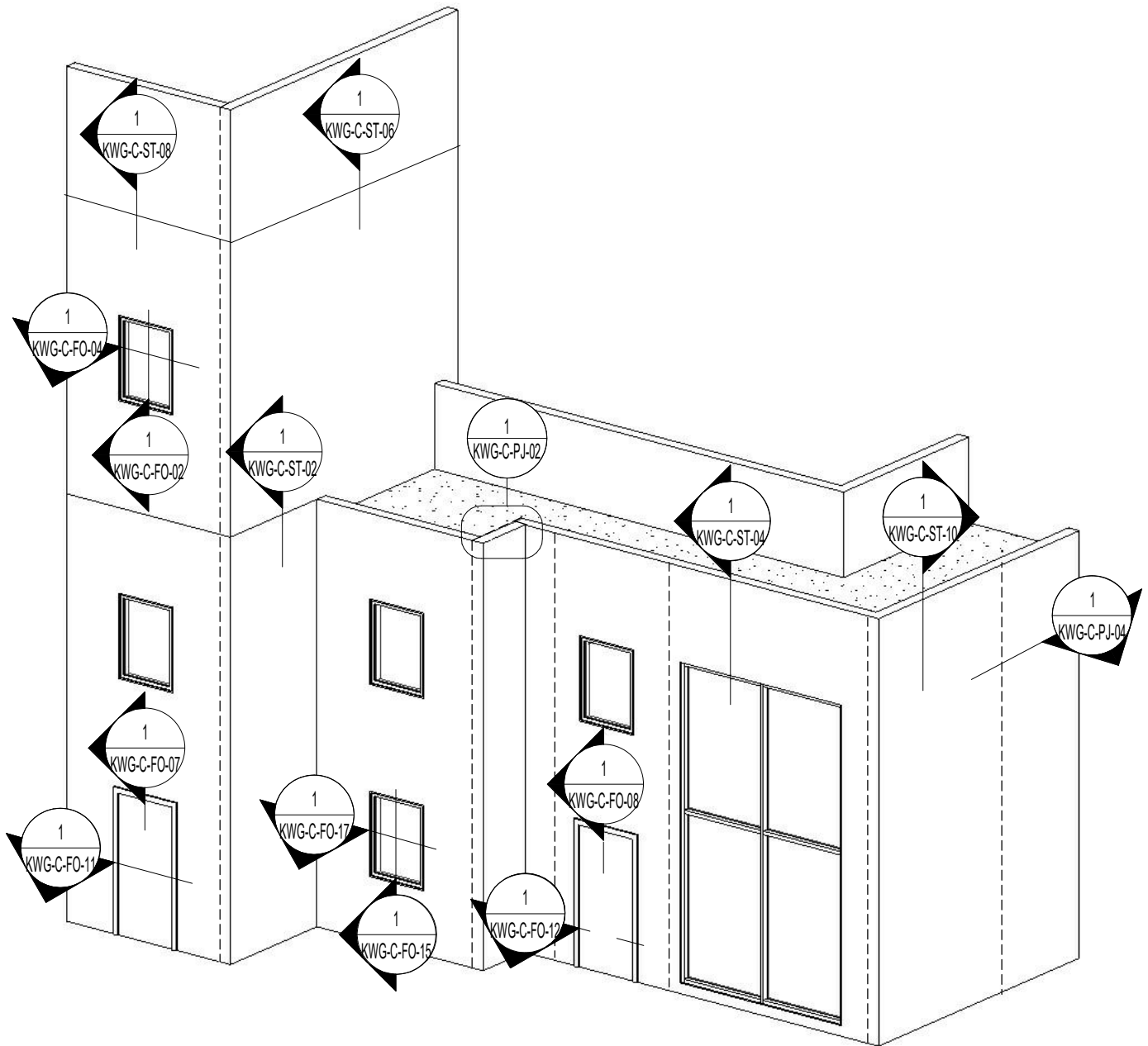
ISOMETRIC DETAIL - EXTERIOR TYP. CONDITIONS

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/16" = 1'-0"

Date: 06/29/21

KWG-C-INDEX-04



KLOVER

ISOMETRIC DETAIL - EXTERIOR CONDITIONS - 2HR.

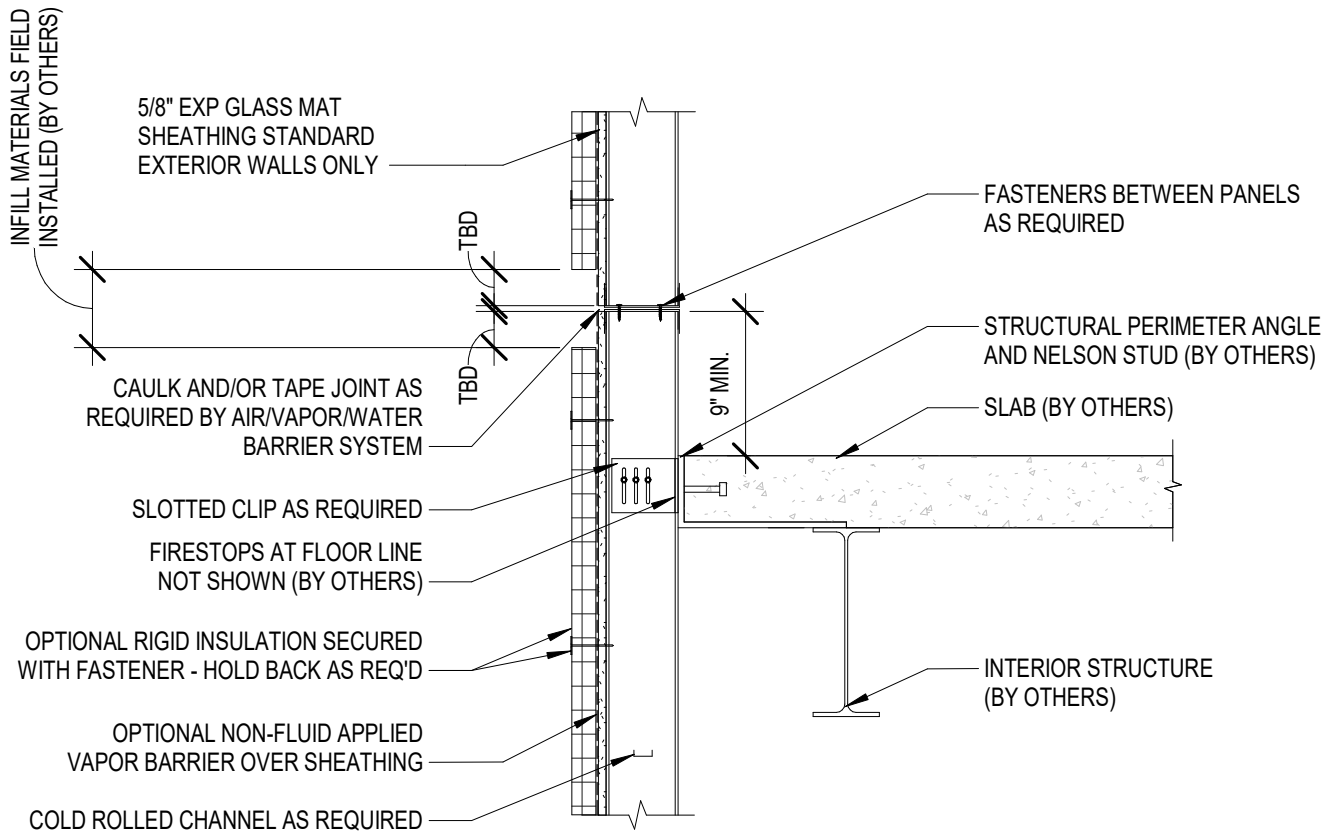
1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/16" = 1'-0"

Date:

06/29/21

KWG-C-INDEX-05



REFERENCE DETAIL ONLY - CONSULT WITH CFMS STRUCTURAL
ENGINEER FOR SIZING, BRACING AND ATTACHMENT REQUIREMENTS



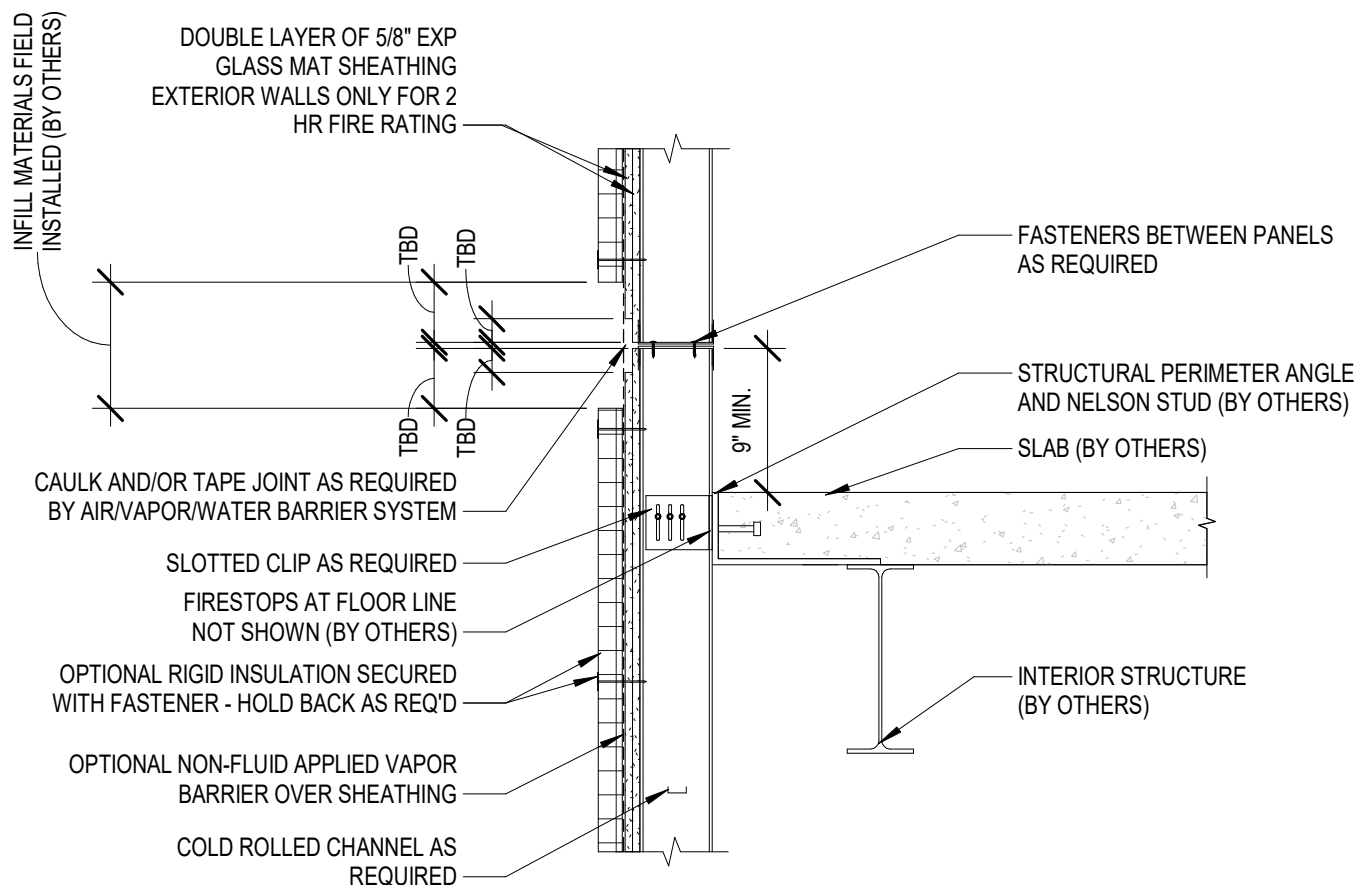
MULTI-STORY VERTICAL PANELS STACKED

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/4" = 1'-0"

Date: 06/29/21

KWG-C-ST-01



REFERENCE DETAIL ONLY - CONSULT WITH CFMS STRUCTURAL
ENGINEER FOR SIZING, BRACING AND ATTACHMENT REQUIREMENTS



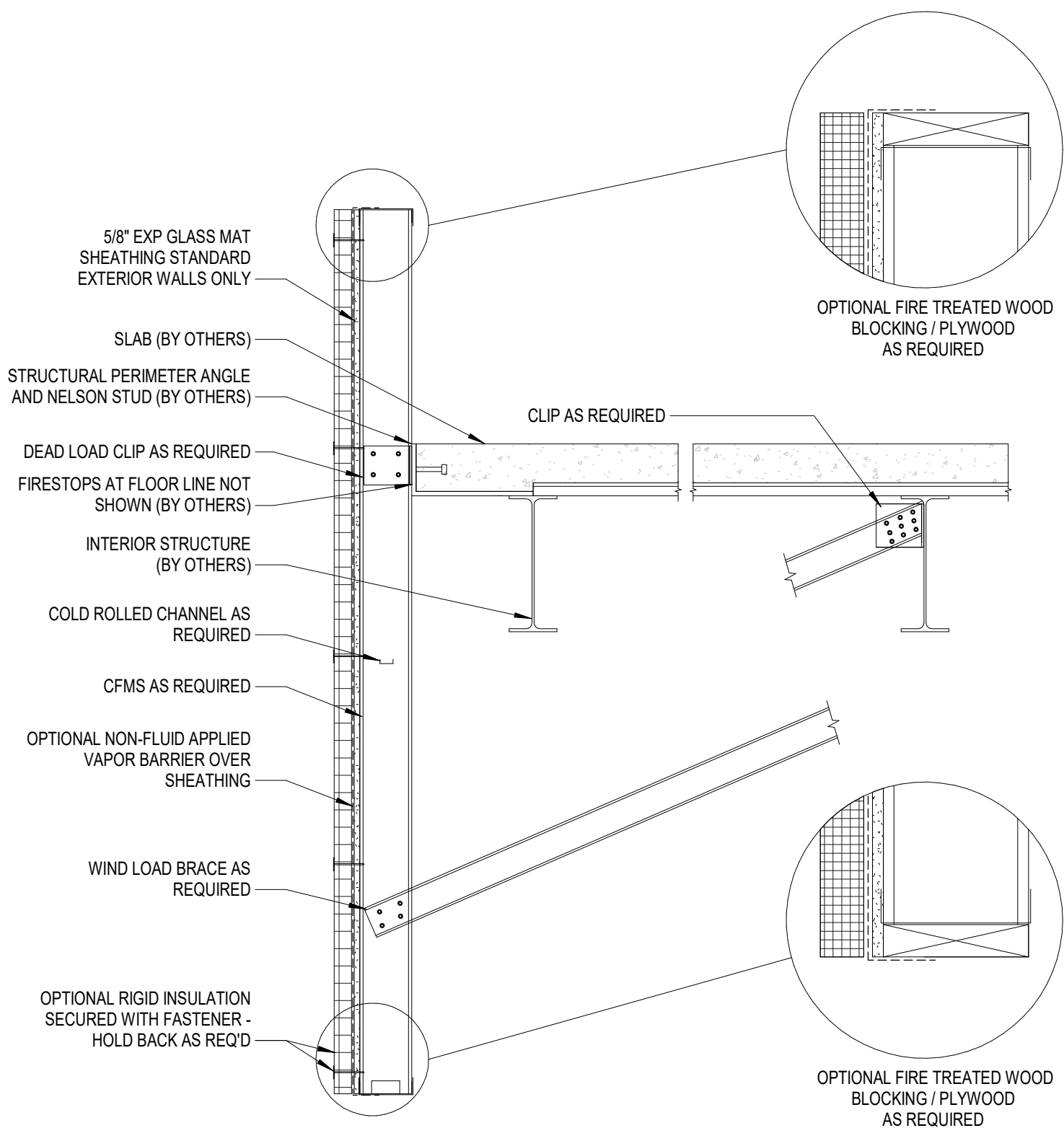
MULTI-STORY VERTICAL PANELS STACKED 2 HR.

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/4" = 1'-0"

Date: 06/29/21

KWG-C-ST-02



REFERENCE DETAIL ONLY - CONSULT WITH CFMS STRUCTURAL ENGINEER FOR SIZING, BRACING AND ATTACHMENT REQUIREMENTS

KLOVER

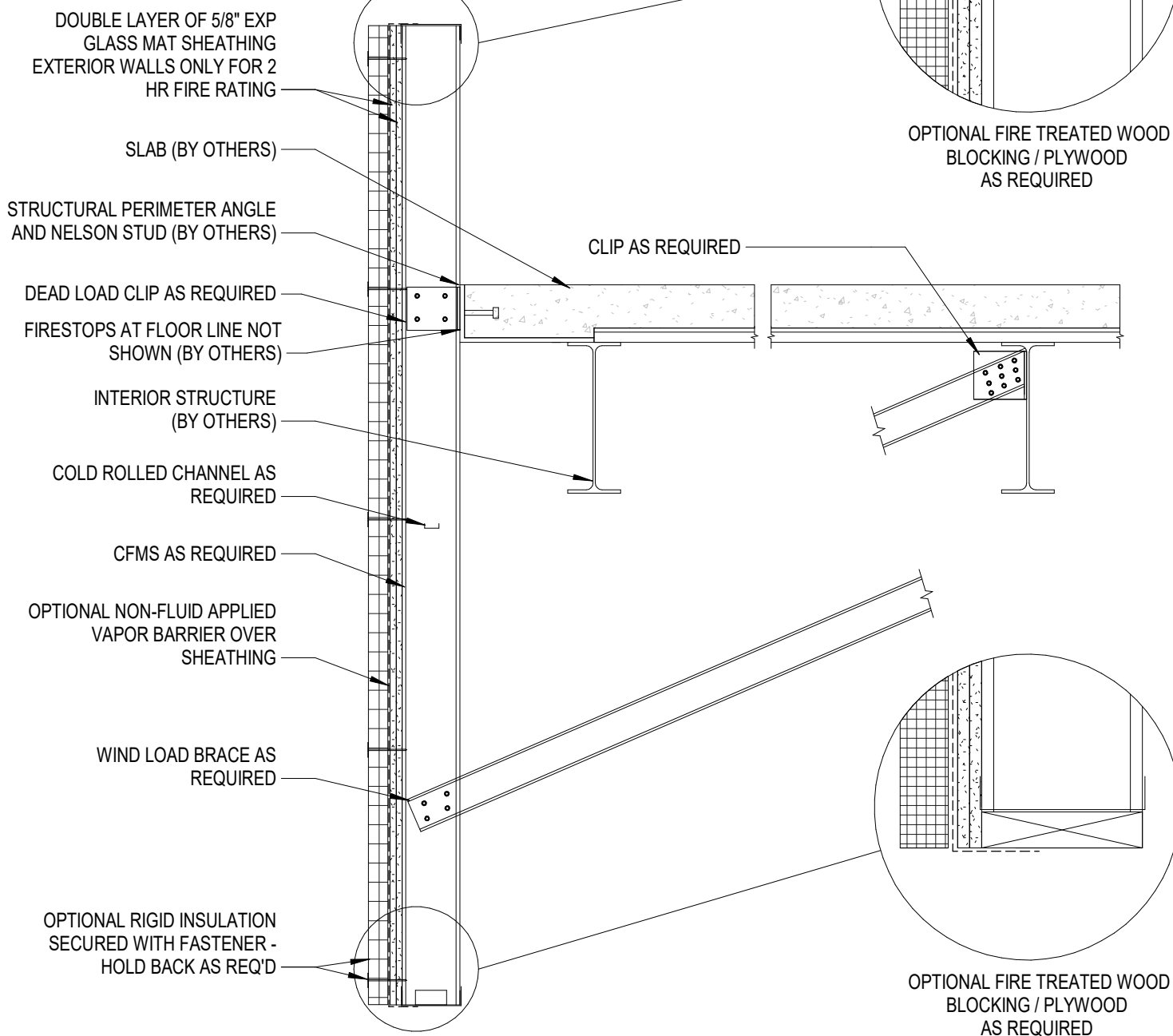
SPANDREL PANEL W/SUPPORT BRACE AT WINDOW HEAD

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/4" = 1'-0"

Date: 06/29/21

KWG-C-ST-03



REFERENCE DETAIL ONLY - CONSULT WITH CFMS STRUCTURAL
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SPANDREL PANEL W/SUPPORT BRACE AT WINDOW HEAD 2 HR.

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/4" = 1'-0"

Date: 06/29/21

KWG-C-ST-04

OPTIONAL RIGID INSULATION SECURED
WITH FASTENER - HOLD BACK AS REQ'D

5/8" EXP GLASS MAT SHEATHING
STANDARD EXTERIOR WALLS ONLY

CFMS AS REQUIRED

COLD ROLLED CHANNEL AS REQUIRED

SLAB (BY OTHERS)

STRUCTURAL PERIMETER ANGLE AND
NELSON STUD (BY OTHERS)

DEAD LOAD CLIP AS REQUIRED

FIRESTOPS AT FLOOR LINE NOT
SHOWN (BY OTHERS)

OPTIONAL NON-FLUID APPLIED
VAPOR BARRIER OVER SHEATHING

INTERIOR STRUCTURE (BY OTHERS)

WIND LOAD BRACE AS REQUIRED

OPTIONAL FIRE TREATED WOOD
BLOCKING / PLYWOOD
AS REQUIRED

REFERENCE DETAIL ONLY - CONSULT WITH CFMS STRUCTURAL
ENGINEER FOR SIZING, BRACING AND ATTACHMENT REQUIREMENTS



SPANDREL PANEL WITH FIXED CLIP FLOOR SUPPORT

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/4" = 1'-0"

Date: 06/29/21

KWG-C-ST-05

OPTIONAL RIGID INSULATION SECURED
WITH FASTENER - HOLD BACK AS REQ'D

DOUBLE LAYER OF 5/8" EXP GLASS MAT
SHEATHING EXTERIOR WALLS ONLY FOR
2 HR FIRE RATING

CFMS AS REQUIRED

COLD ROLLED CHANNEL AS
REQUIRED

SLAB (BY OTHERS)

STRUCTURAL PERIMETER ANGLE
AND NELSON STUD (BY OTHERS)

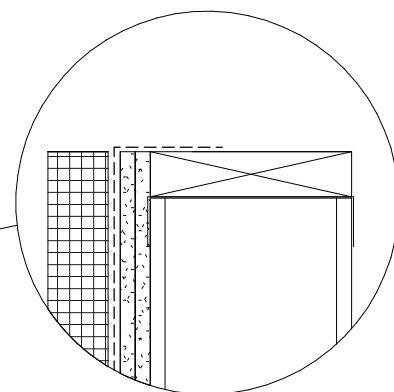
DEAD LOAD CLIP AS REQUIRED

FIRESTOPS AT FLOOR LINE NOT
SHOWN (BY OTHERS)

OPTIONAL NON-FLUID APPLIED VAPOR
BARRIER OVER SHEATHING

INTERIOR STRUCTURE
(BY OTHERS)

WIND LOAD BRACE AS REQUIRED



OPTIONAL FIRE TREATED WOOD
BLOCKING / PLYWOOD
AS REQUIRED

REFERENCE DETAIL ONLY - CONSULT WITH CFMS STRUCTURAL
ENGINEER FOR SIZING, BRACING AND ATTACHMENT REQUIREMENTS



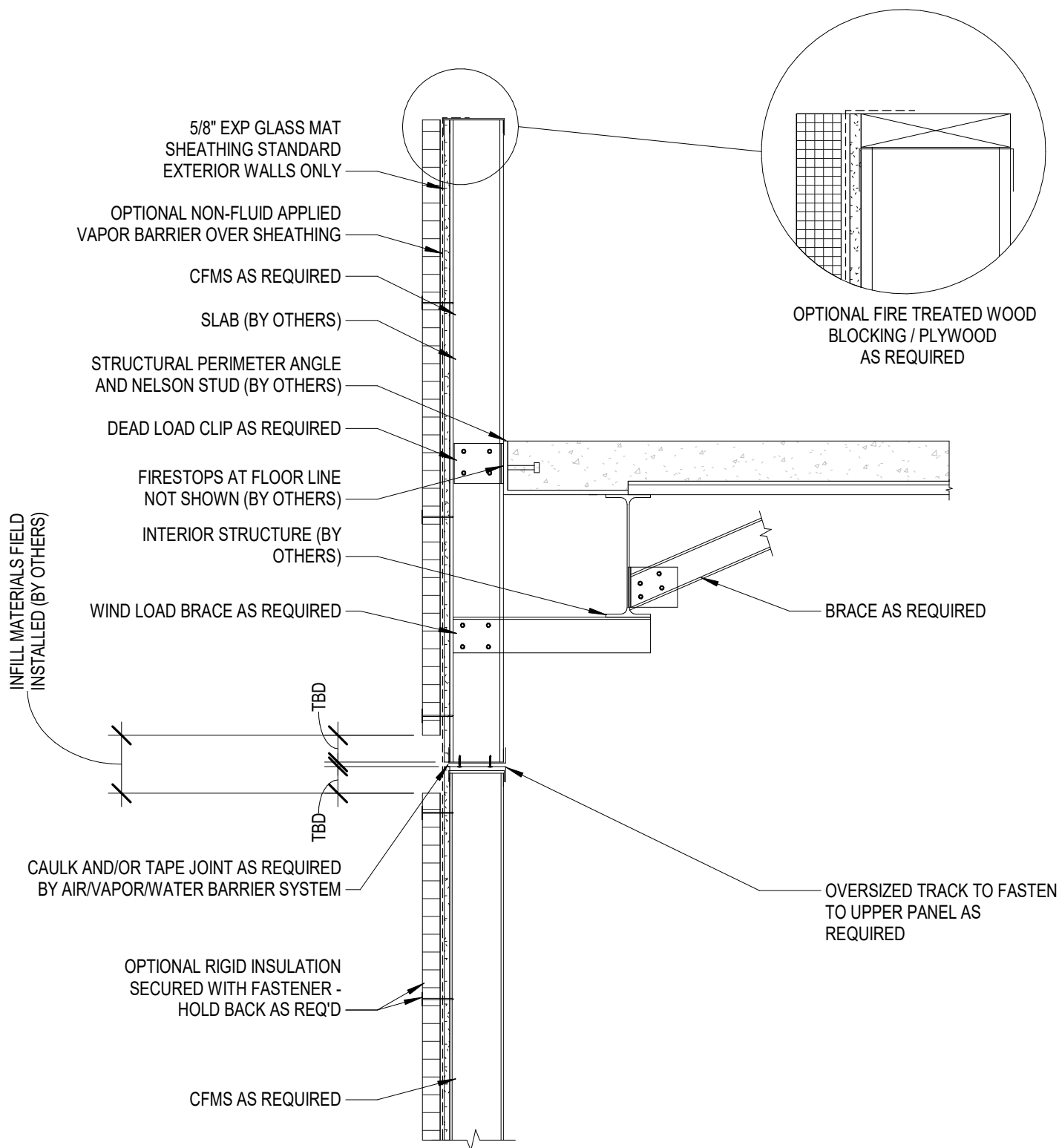
SPANDREL PANEL WITH FIXED CLIP FLOOR SUPPORT 2 HR.

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/4" = 1'-0"

Date: 06/29/21

KWG-C-ST-06



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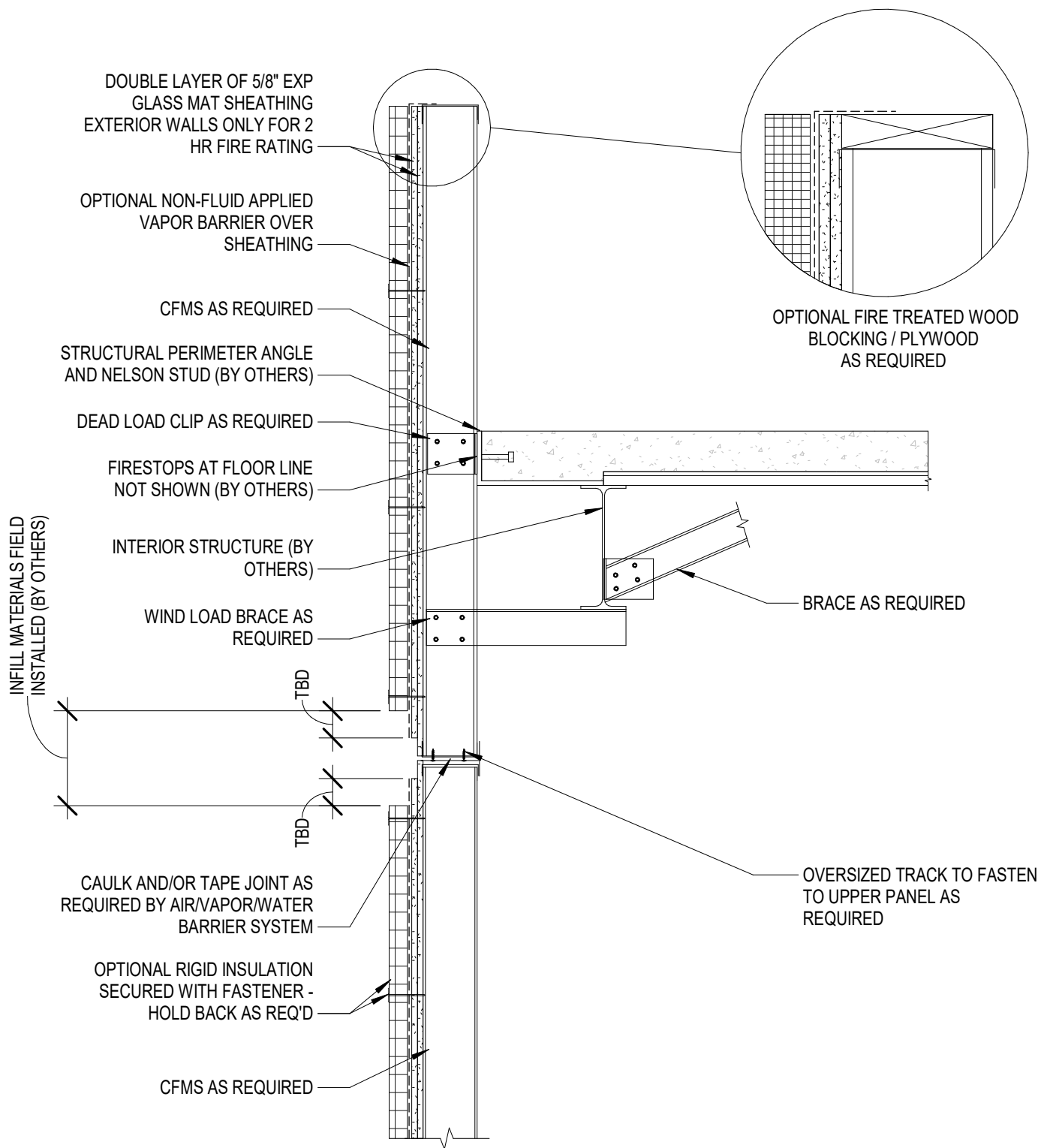
SPANDREL PANEL WITH INFILL WINDOWS

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/4" = 1'-0"

Date: 06/29/21

KWG-C-ST-07



REFERENCE DETAIL ONLY - CONSULT WITH CFMS STRUCTURAL
ENGINEER FOR SIZING, BRACING AND ATTACHMENT REQUIREMENTS



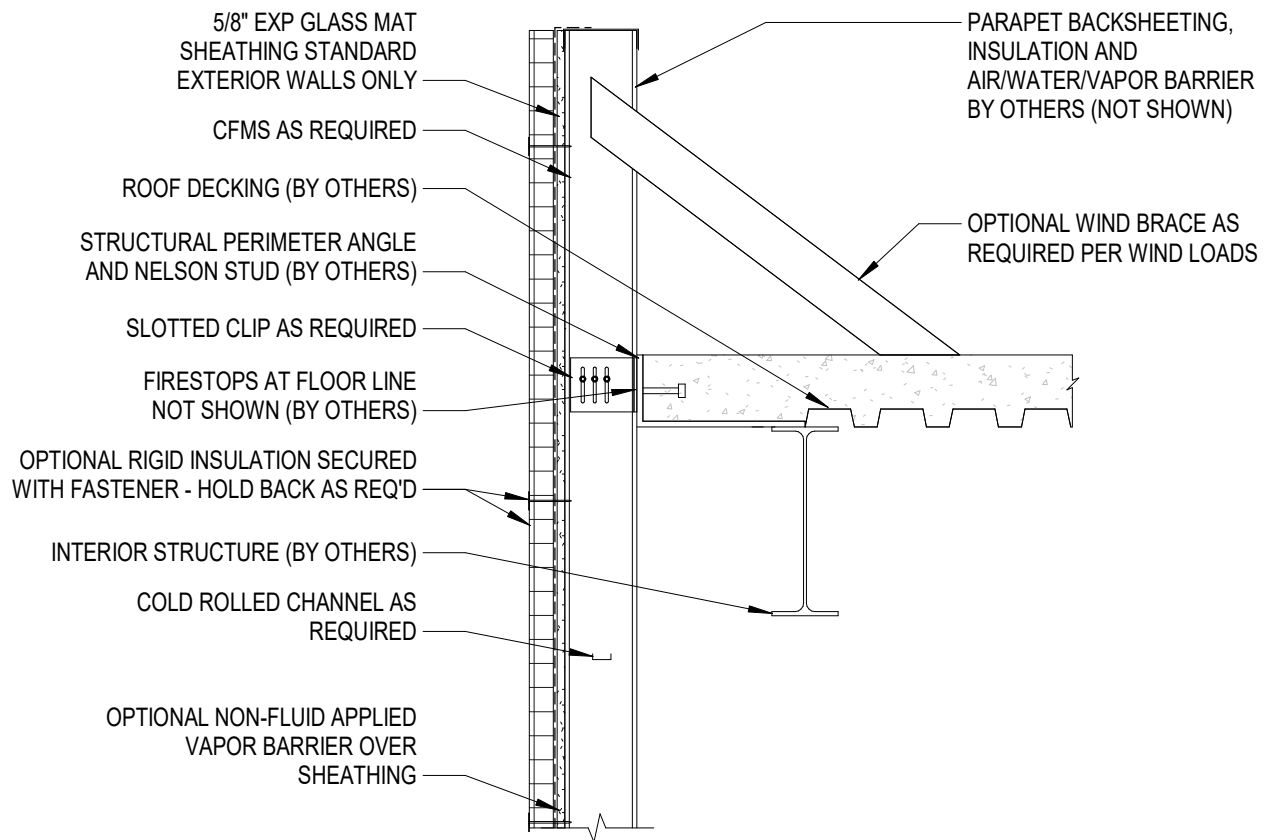
SPANDREL PANEL WITH INFILL WINDOWS 2 HR.

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/4" = 1'-0"

Date: 06/29/21

KWG-C-ST-08



REFERENCE DETAIL ONLY - CONSULT WITH CFMS STRUCTURAL
ENGINEER FOR SIZING, BRACING AND ATTACHMENT REQUIREMENTS



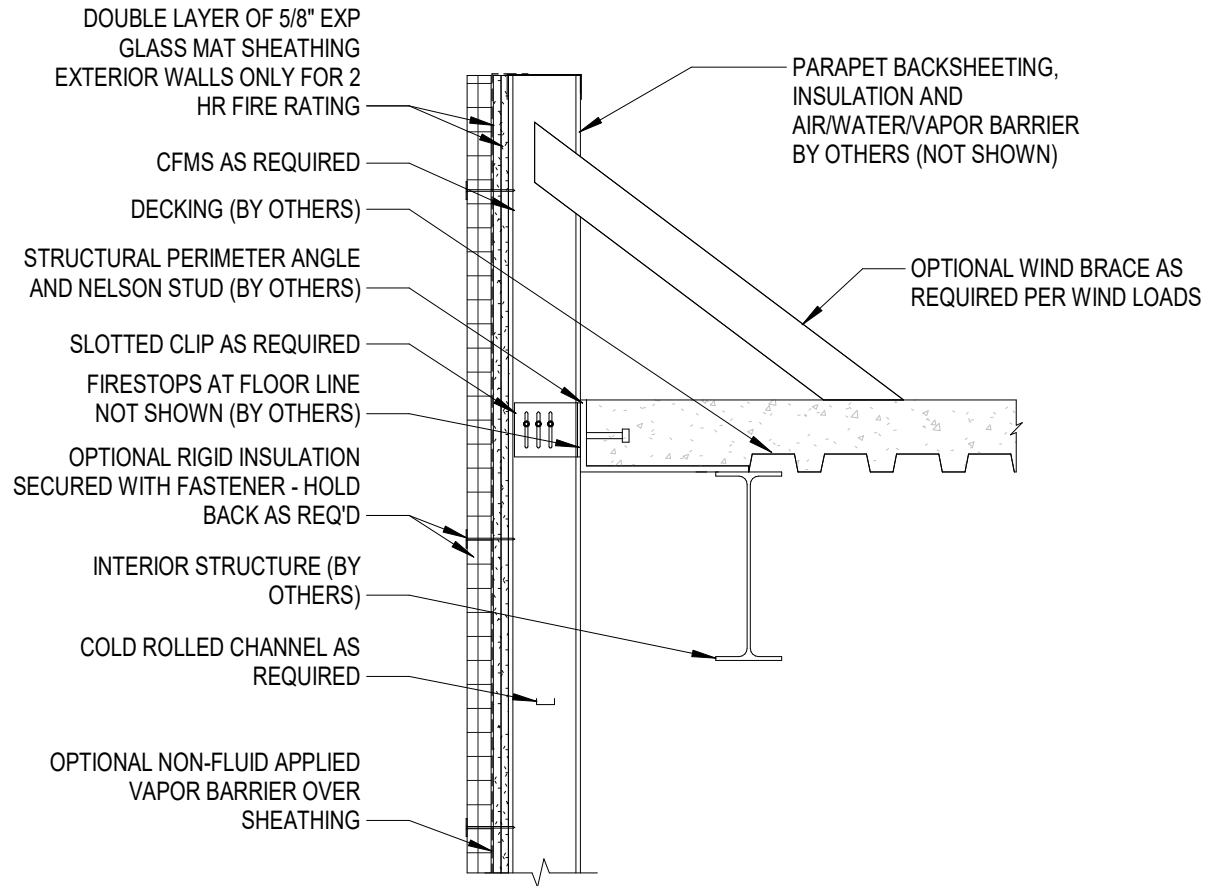
PARAPET WITH FOUNDATION SUPPORTED WALL PANEL

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/4" = 1'-0"

Date: 06/29/21

KWG-C-ST-09



REFERENCE DETAIL ONLY - CONSULT WITH CFMS STRUCTURAL
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PARAPET WITH FOUNDATION SUPPORTED WALL PANEL 2 HR.

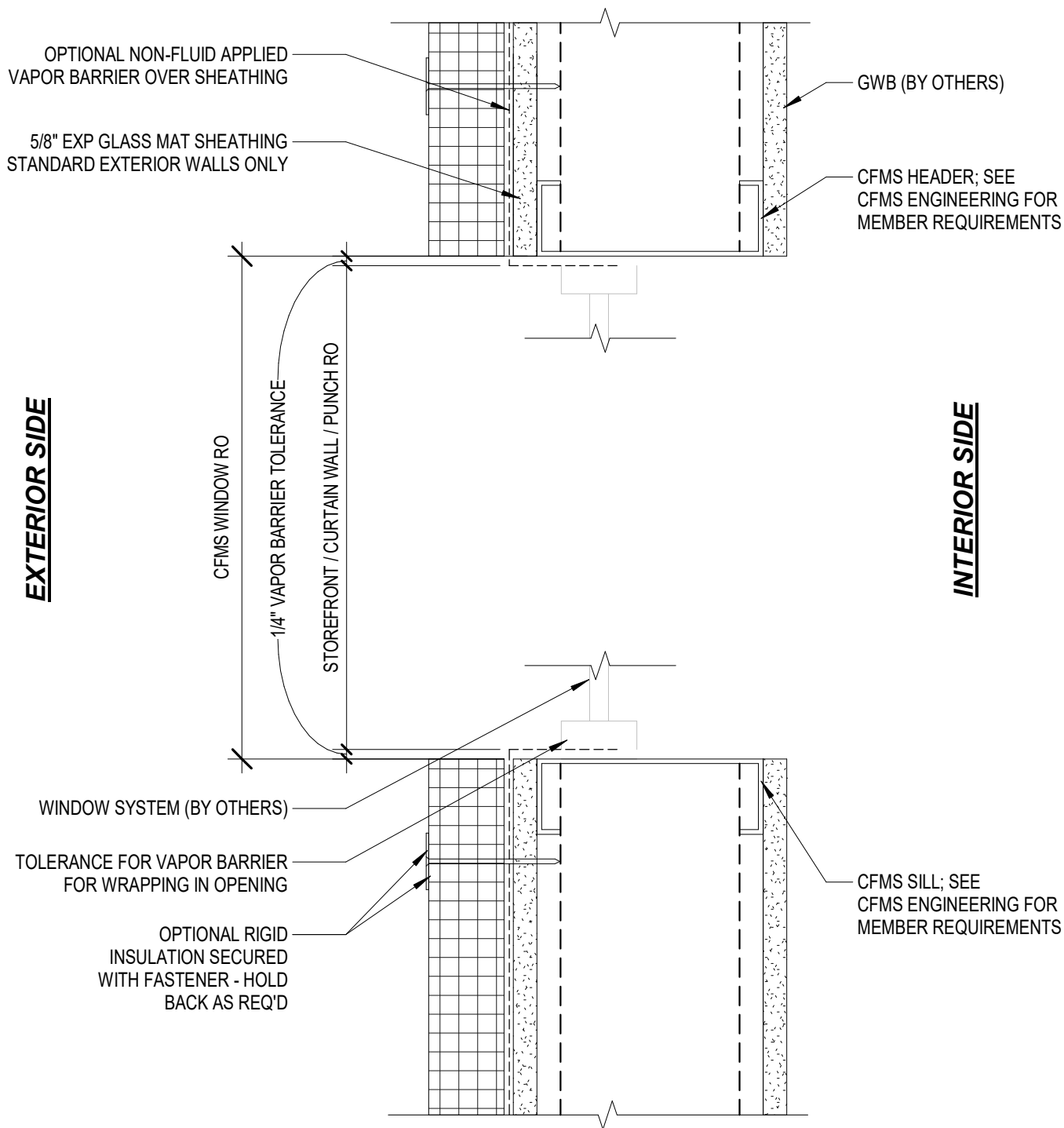
1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3/4" = 1'-0"

Date:

06/29/21

KWG-C-ST-10



***WINDOW SHOP DRAWINGS REQUIRED
PRIOR TO PANEL FABRICATION**



WINDOW HEADER & SILL DETAIL

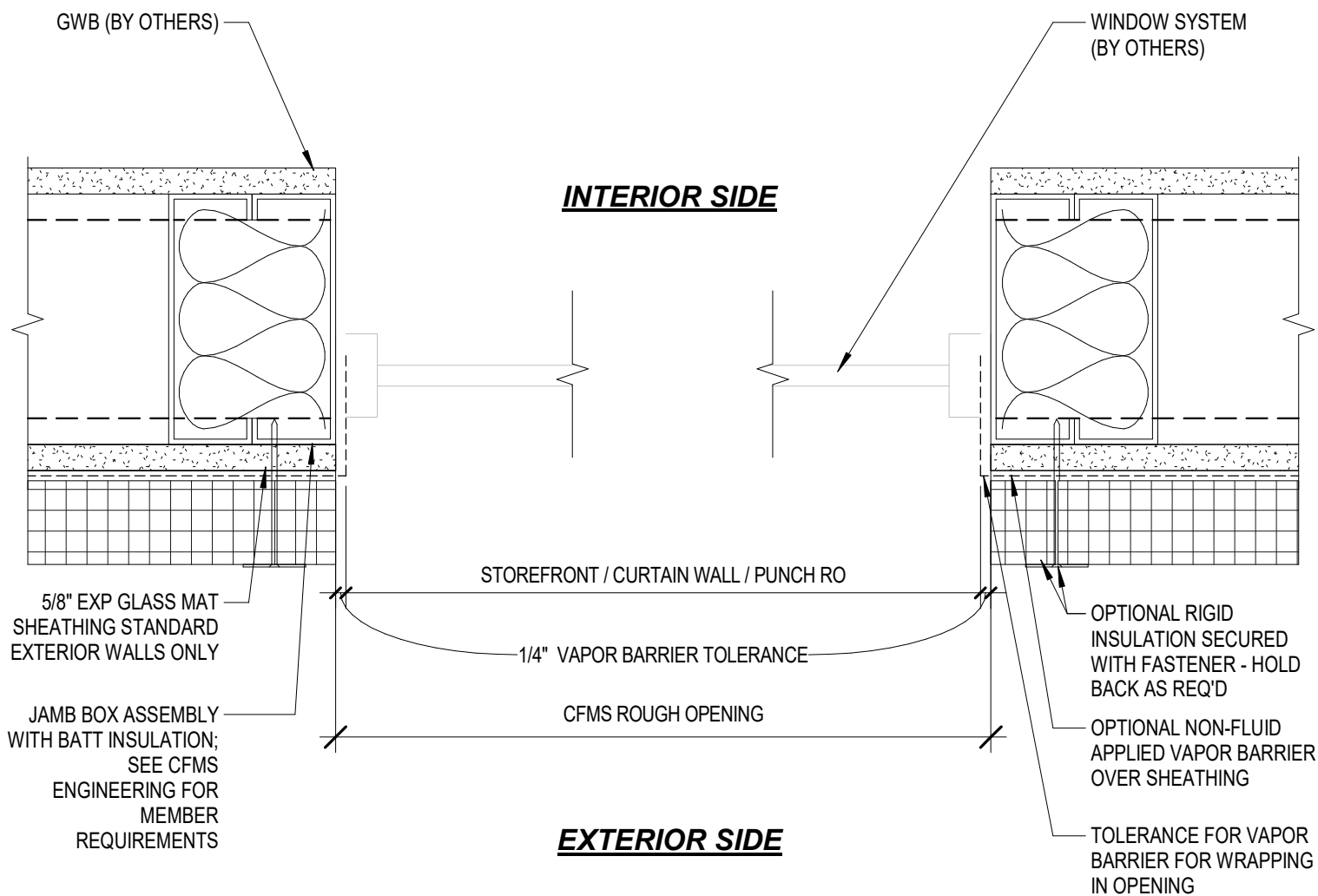
1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date:

06/29/21

KWG-C-FO-01



***WINDOW SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



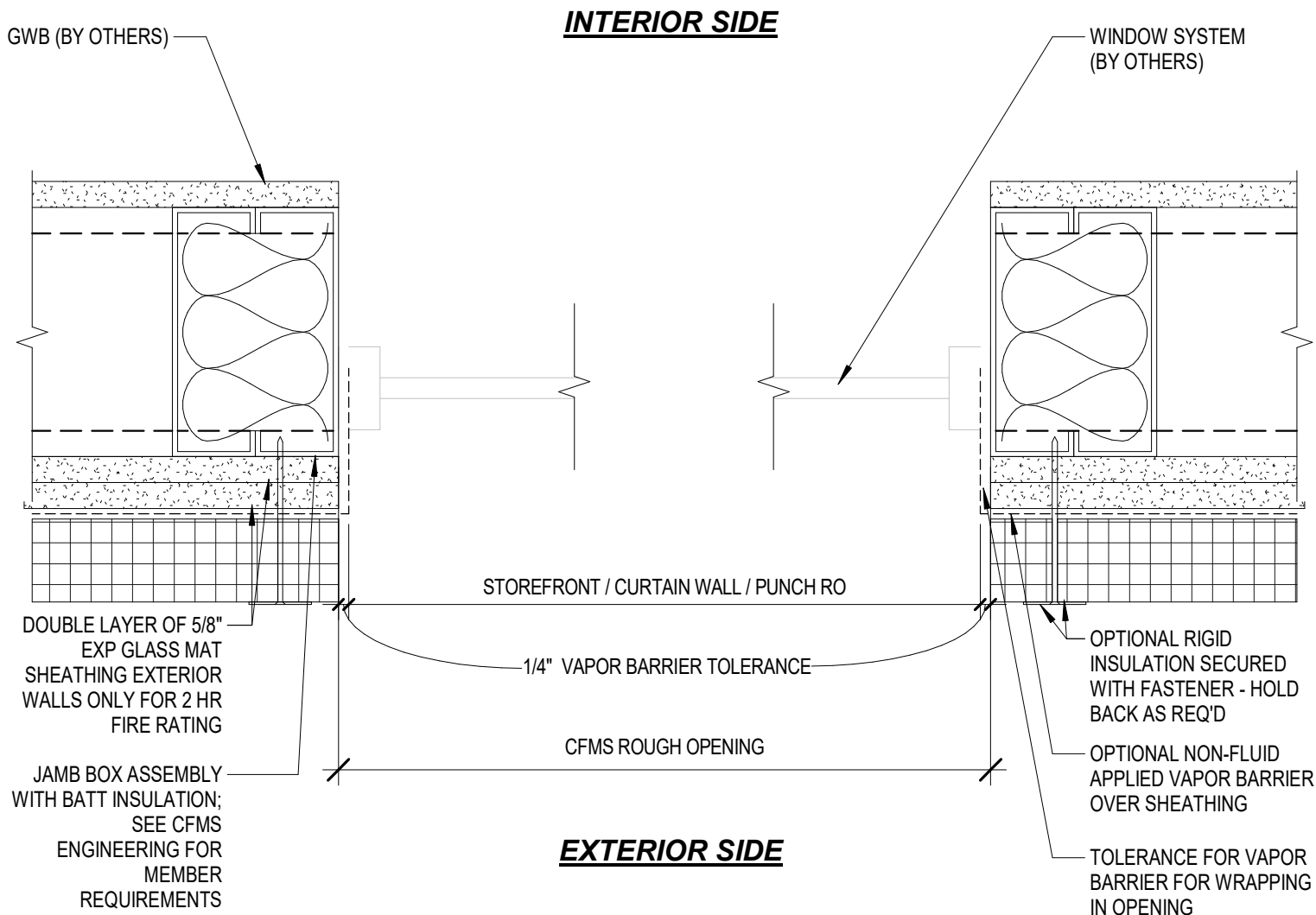
WINDOW JAMB

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-03



***WINDOW SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



WINDOW JAMB 2 HR.

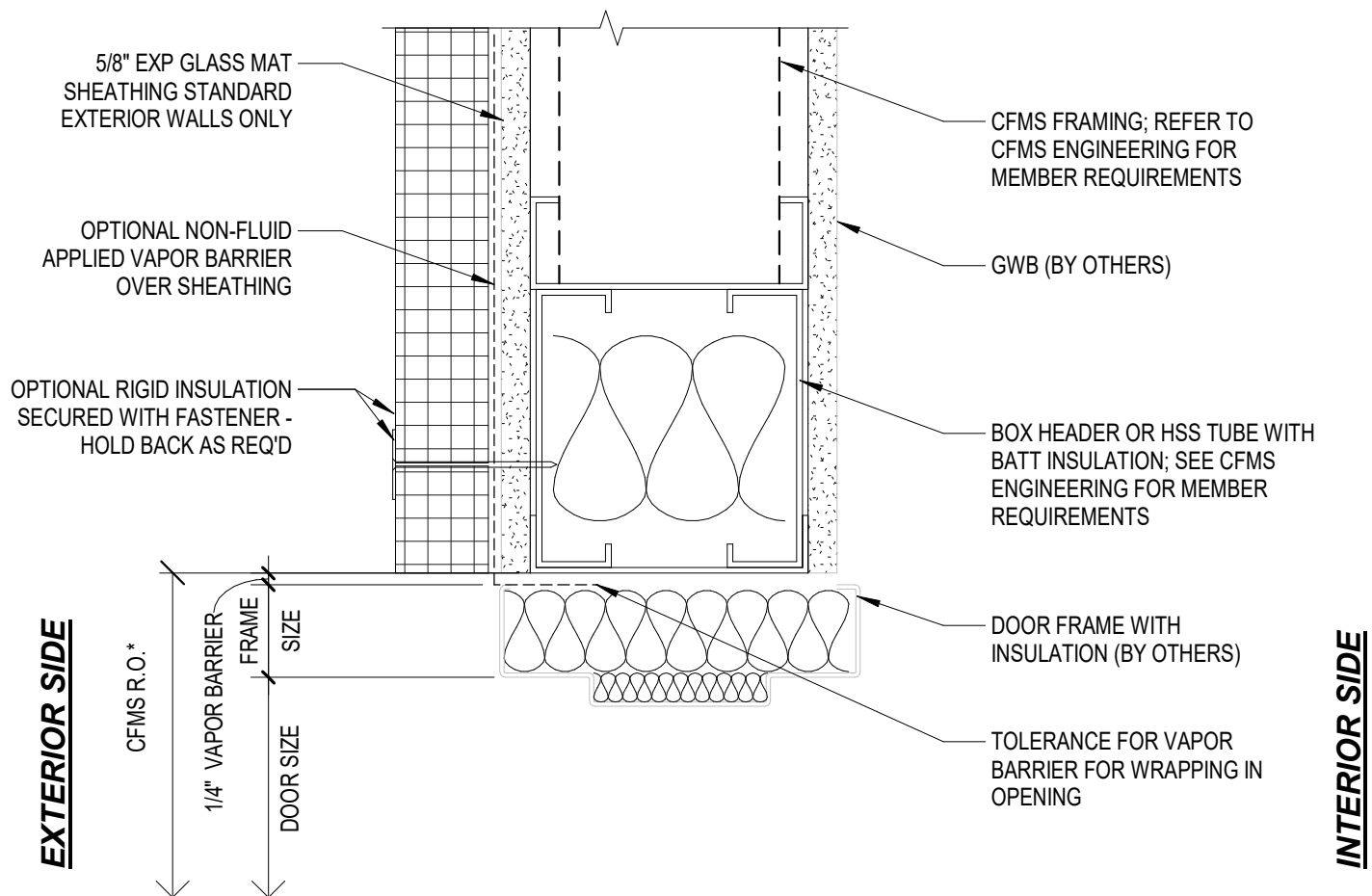
1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date:

06/29/21

KWG-C-FO-04



***DOOR SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



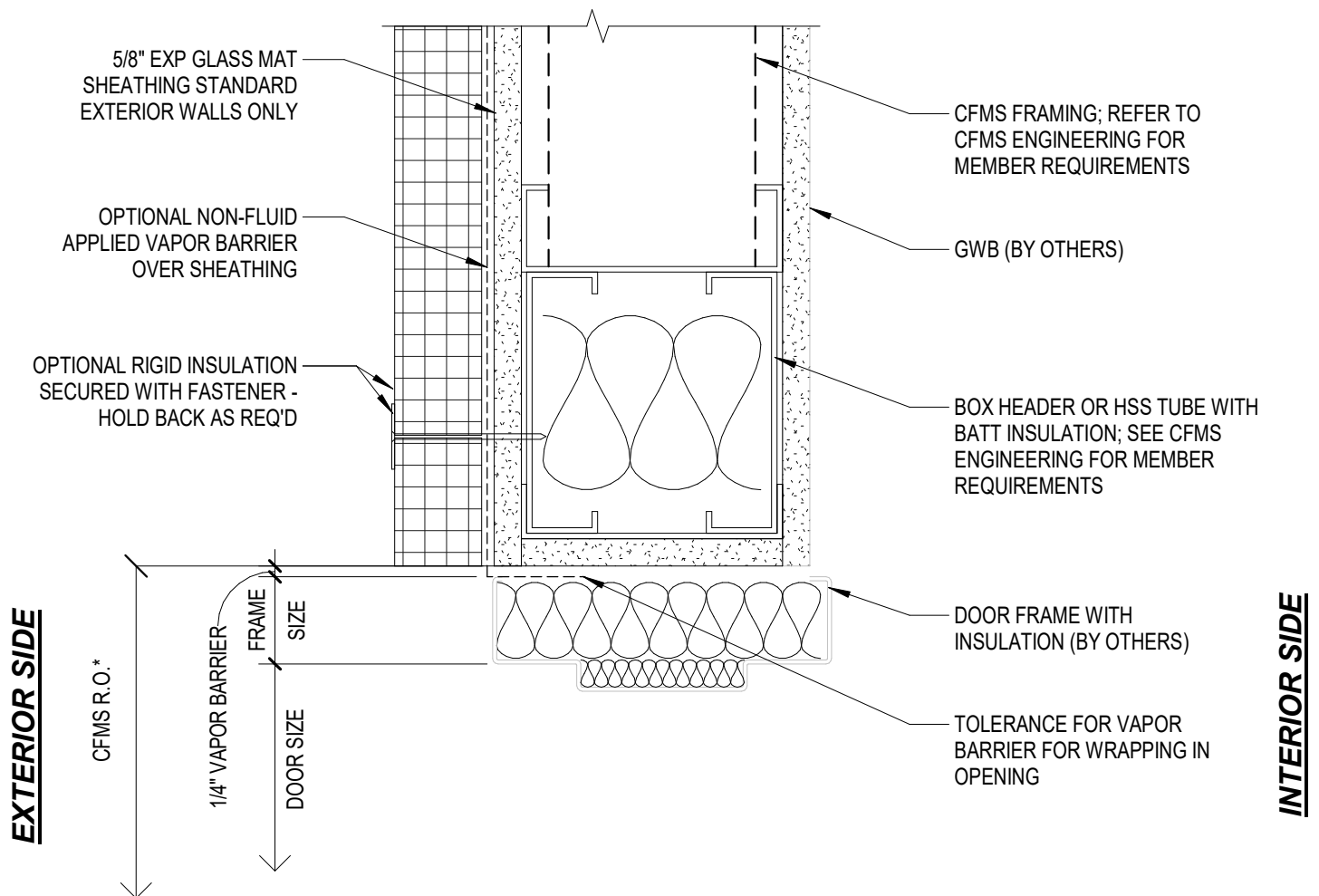
DOOR HEADER

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-05



***DOOR SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



DOOR HEADER ALTERNATE

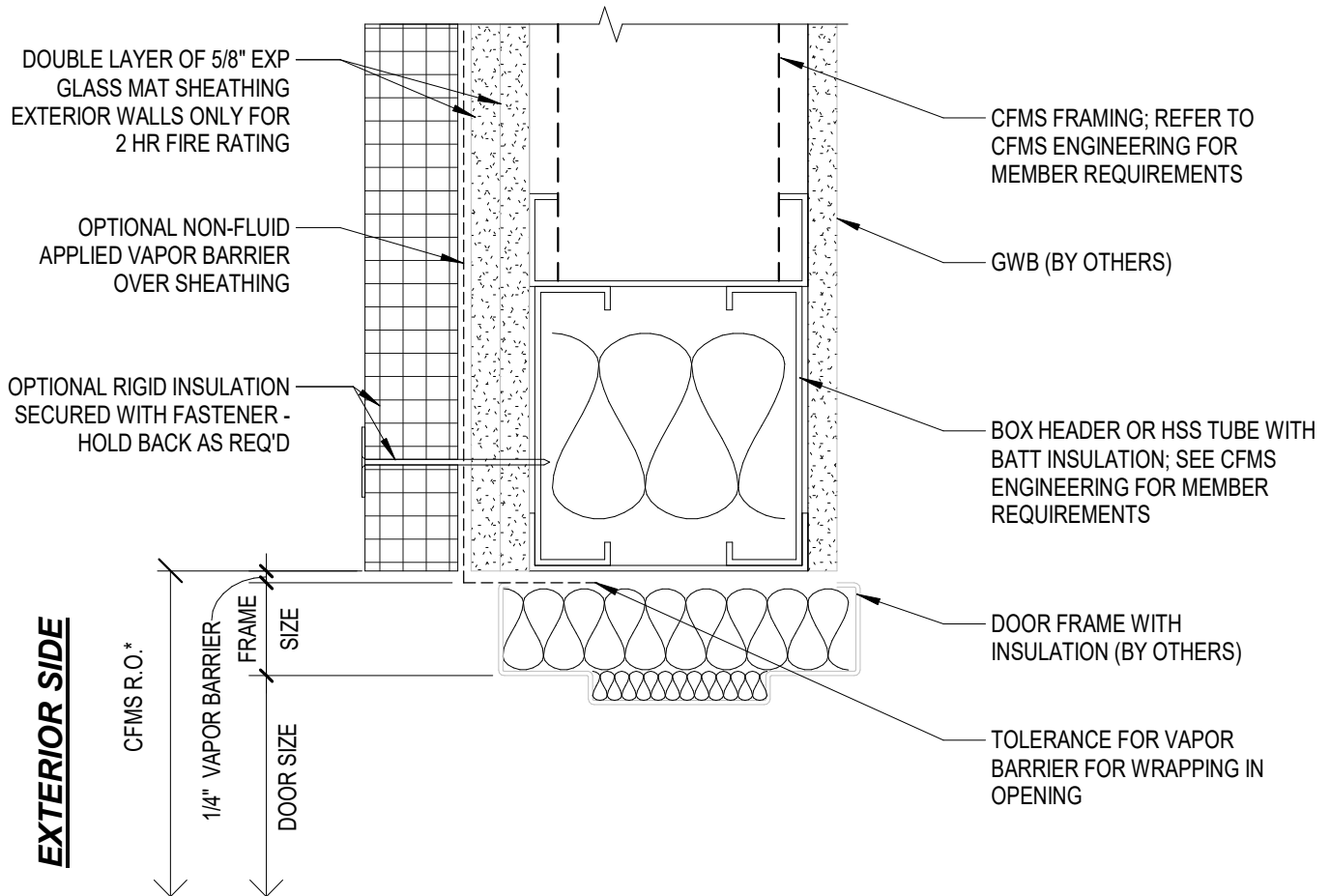
1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date:

06/29/21

KWG-C-FO-06



***DOOR SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



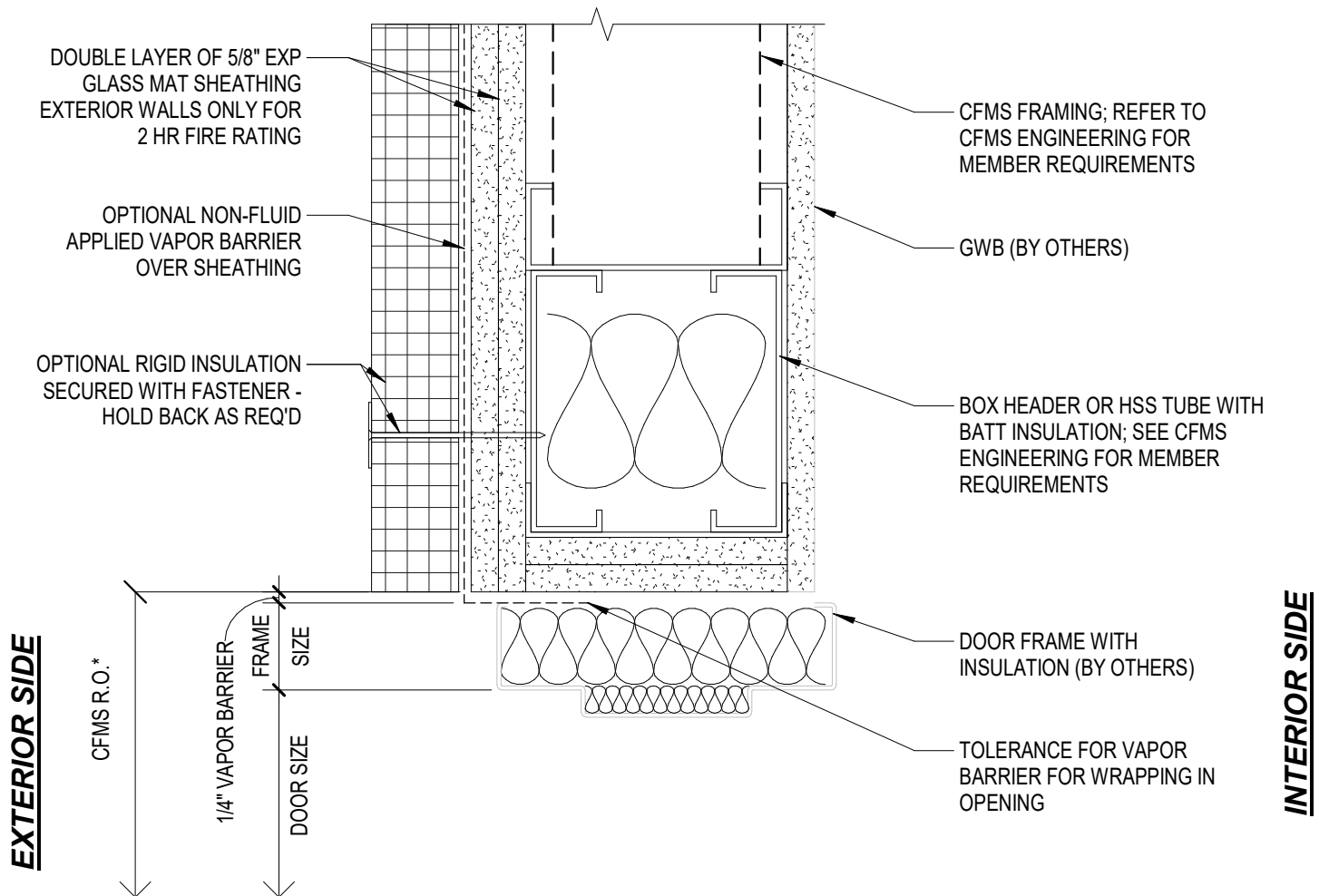
DOOR HEADER 2 HR.

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-07



***DOOR SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



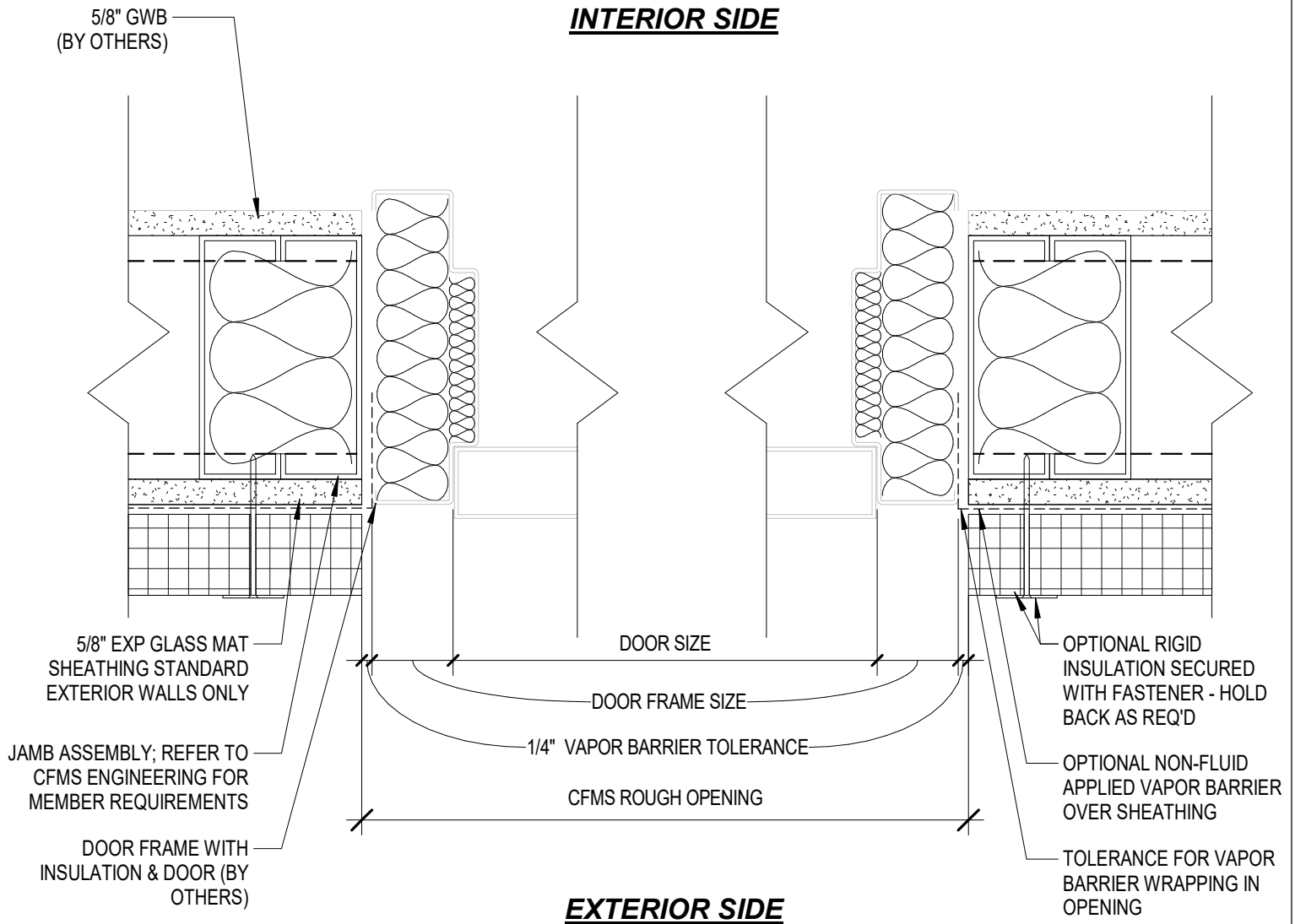
DOOR HEADER 2 HR. ALTERNATE

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-08



***DOOR SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



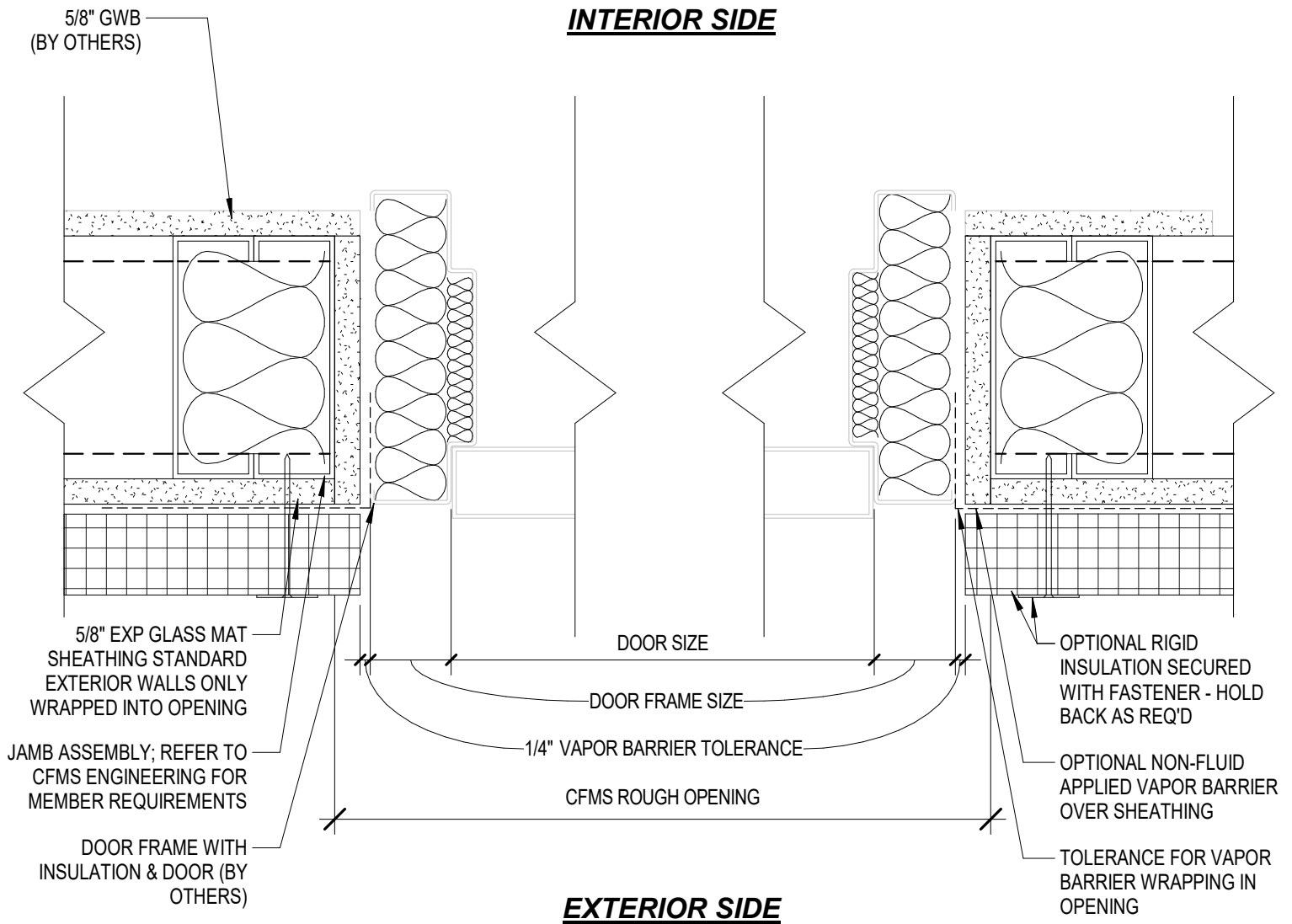
DOOR JAMB

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-09



***DOOR SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



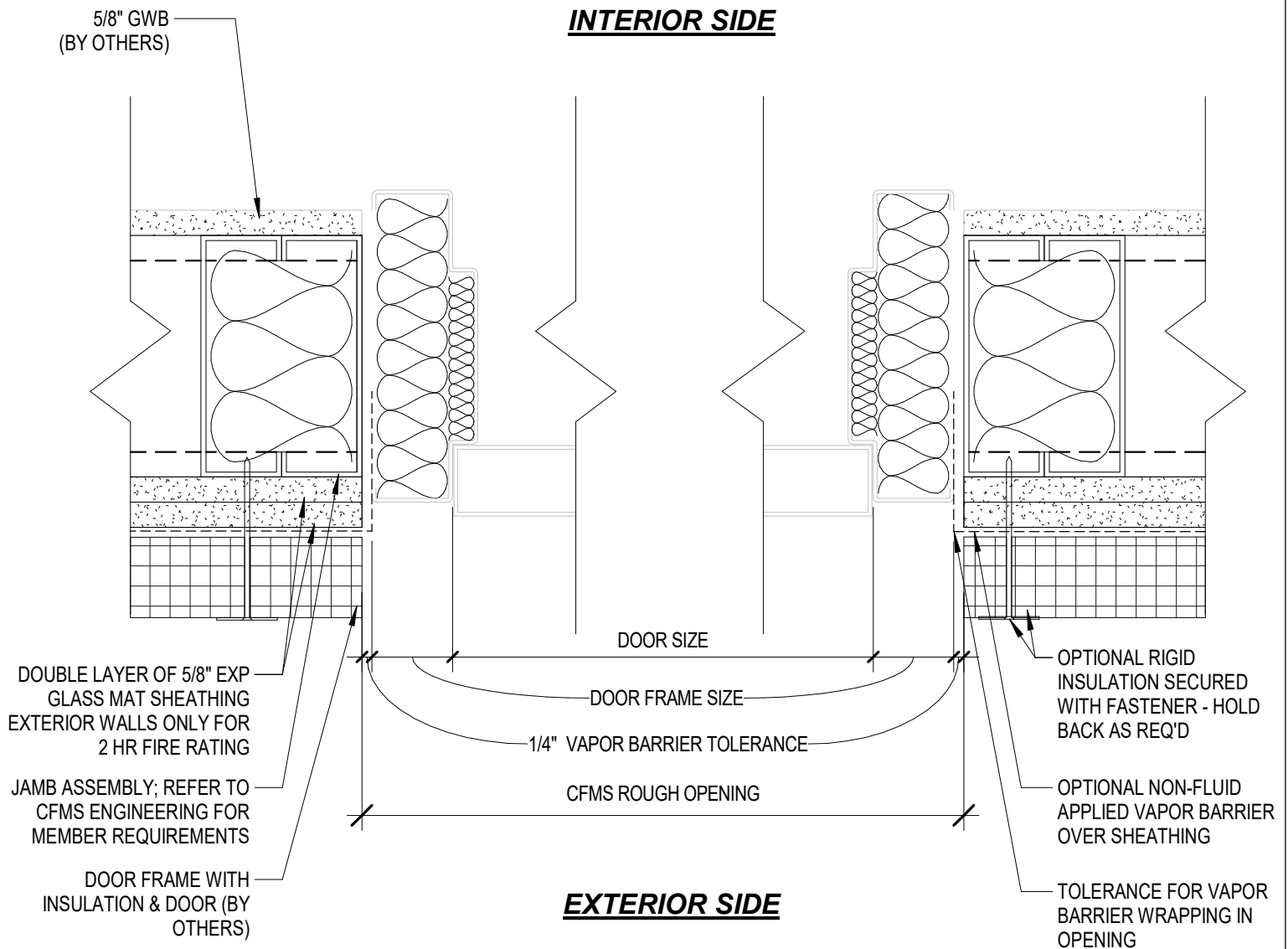
DOOR JAMB ALTERNATE

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-10



***DOOR SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



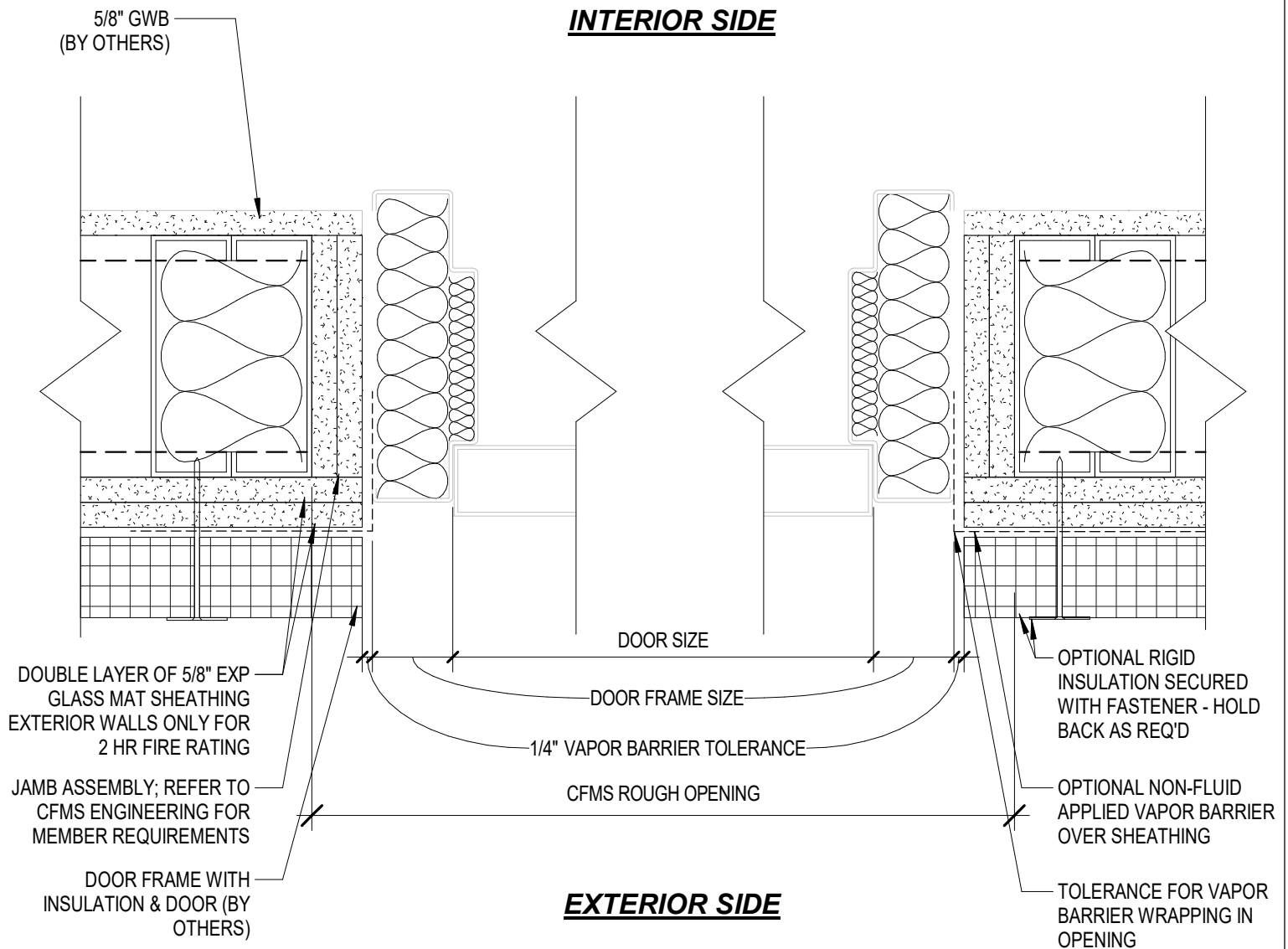
DOOR JAMB 2 HR.

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-11



***DOOR SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



DOOR JAMB 2 HR. ALTERNATE

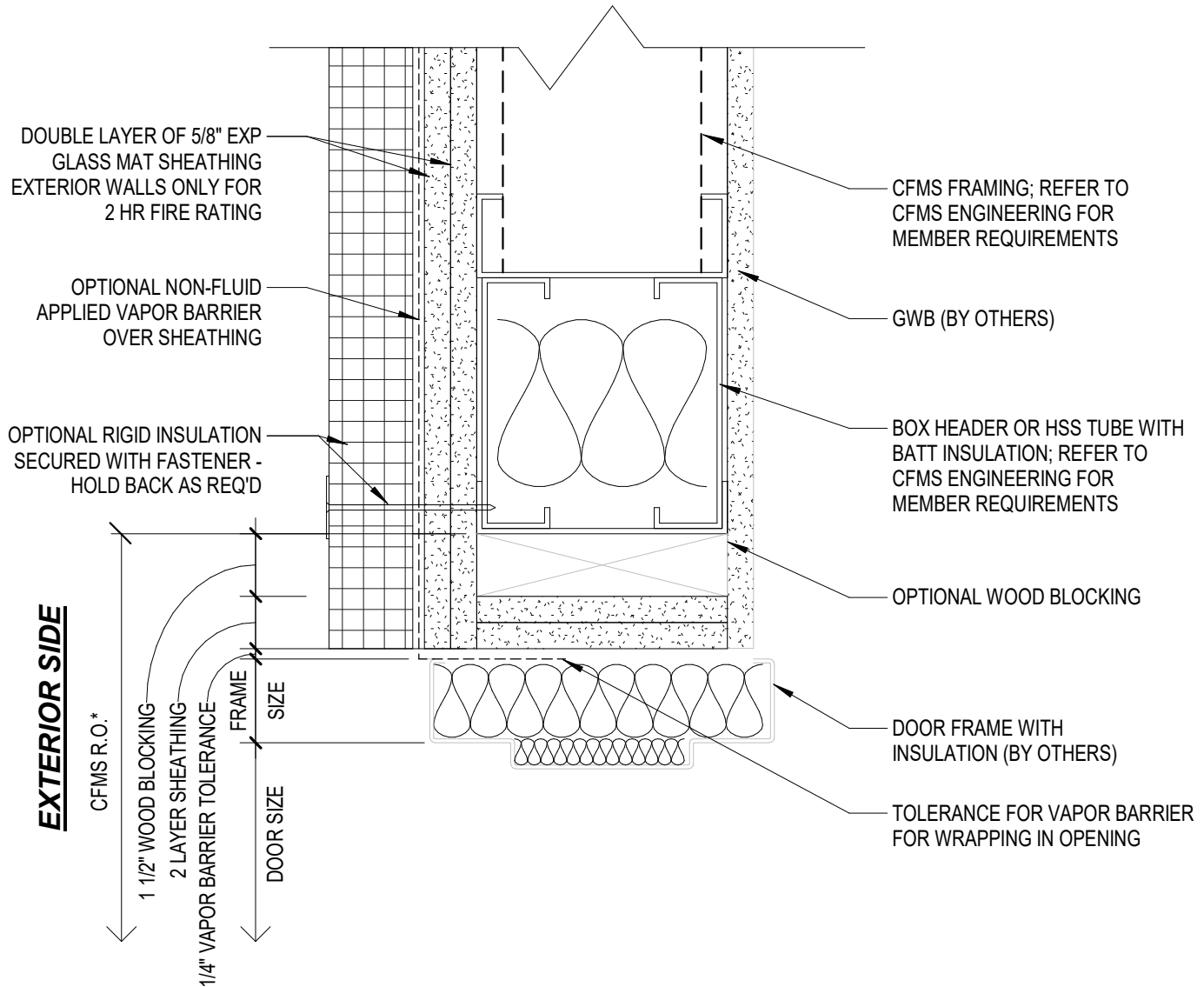
1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date:

06/29/21

KWG-C-FO-12



***DOOR SHOP DRAWINGS REQUIRED PRIOR TO PANEL FABRICATION**



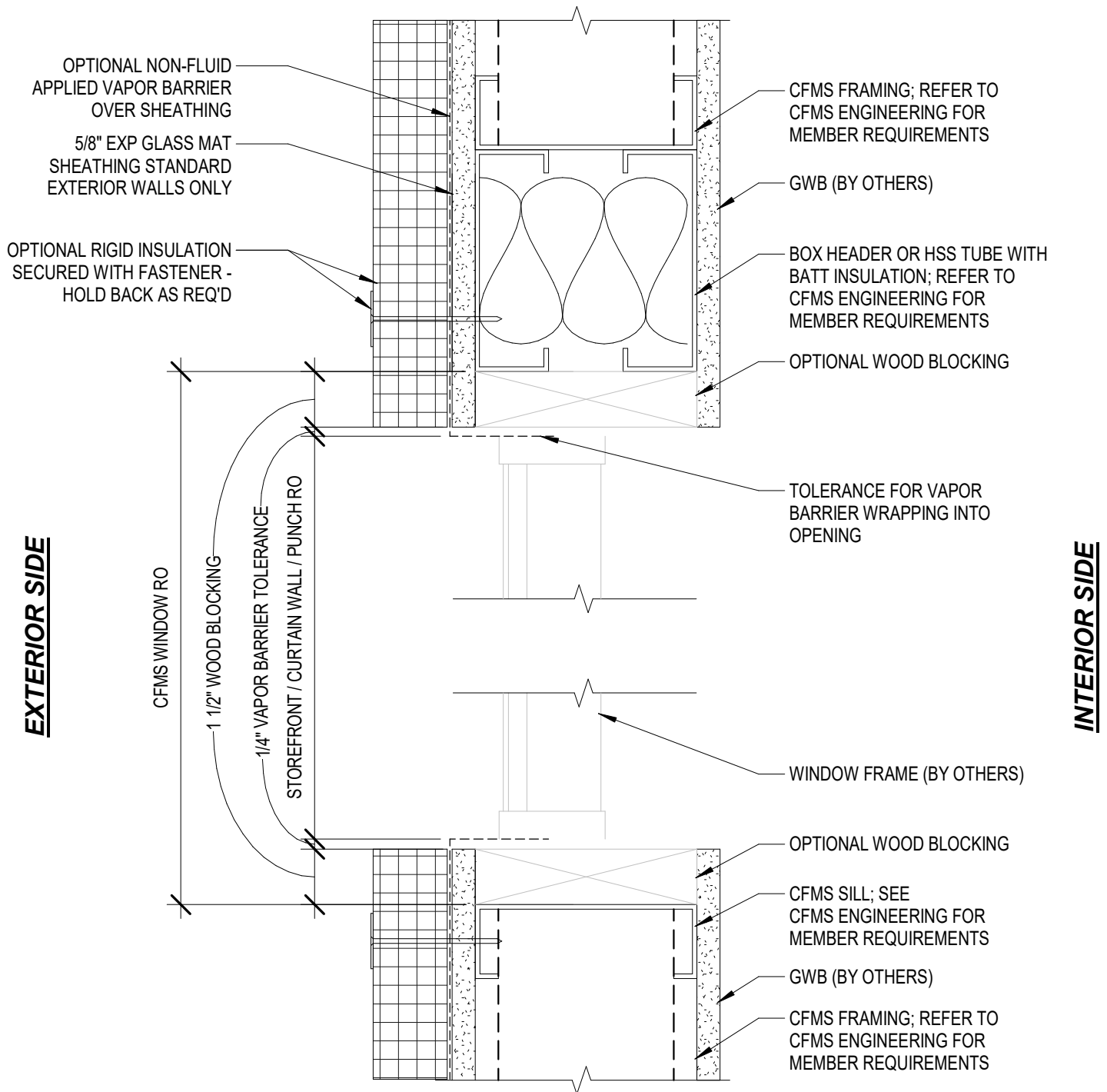
DOOR HEADER WITH BLOCKING 2 HR. ALTERNATE

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-13



***WINDOW SHOP DRAWINGS REQUIRED
PRIOR TO PANEL FABRICATION**



WINDOW BOXED HEAD & SILL WITH BLOCKING

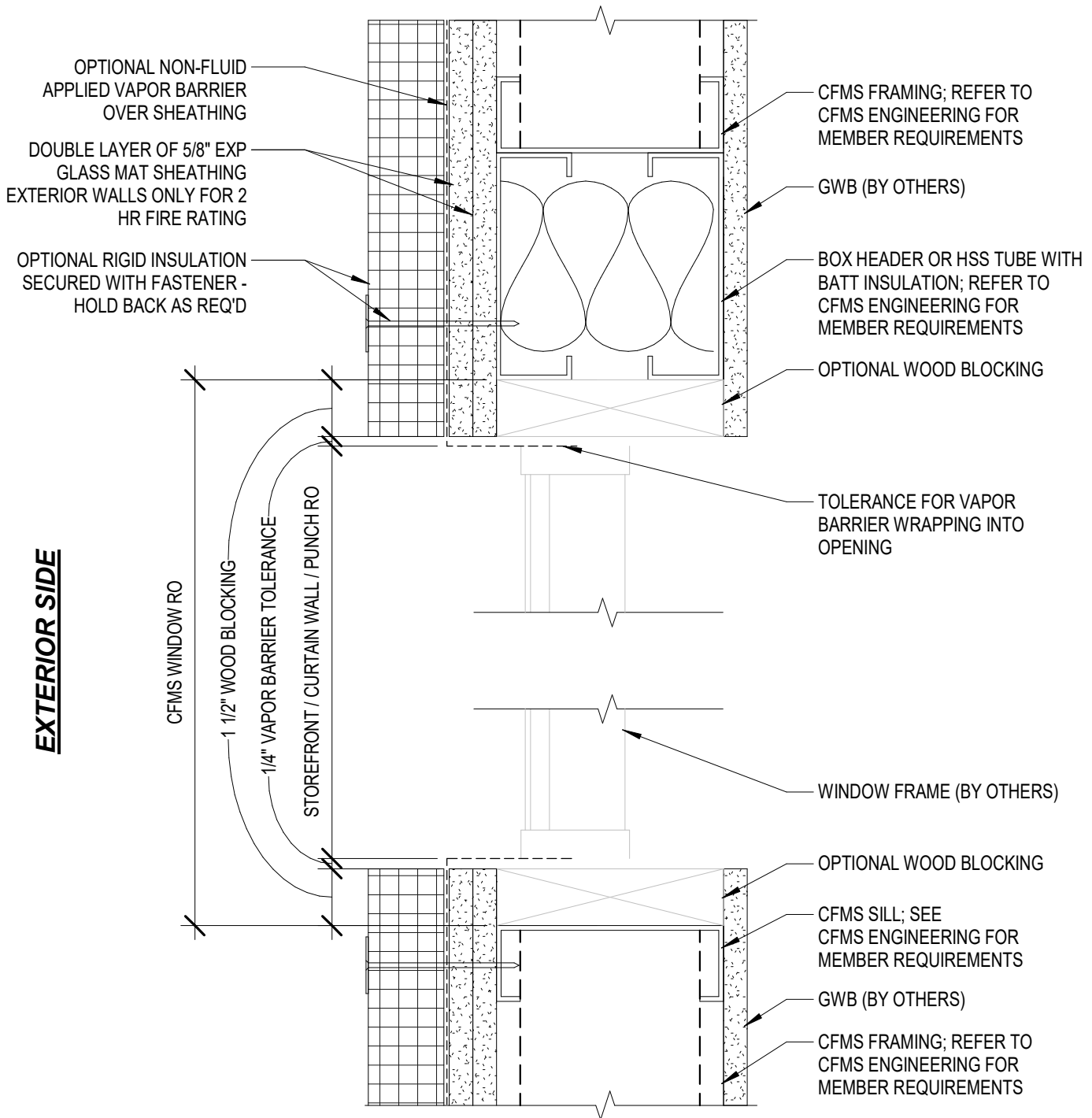
1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date:

06/29/21

KWG-C-FO-14



***WINDOW SHOP DRAWINGS REQUIRED
PRIOR TO PANEL FABRICATION**



WINDOW BOXED HEAD & SILL WITH BLOCKING 2 HR.

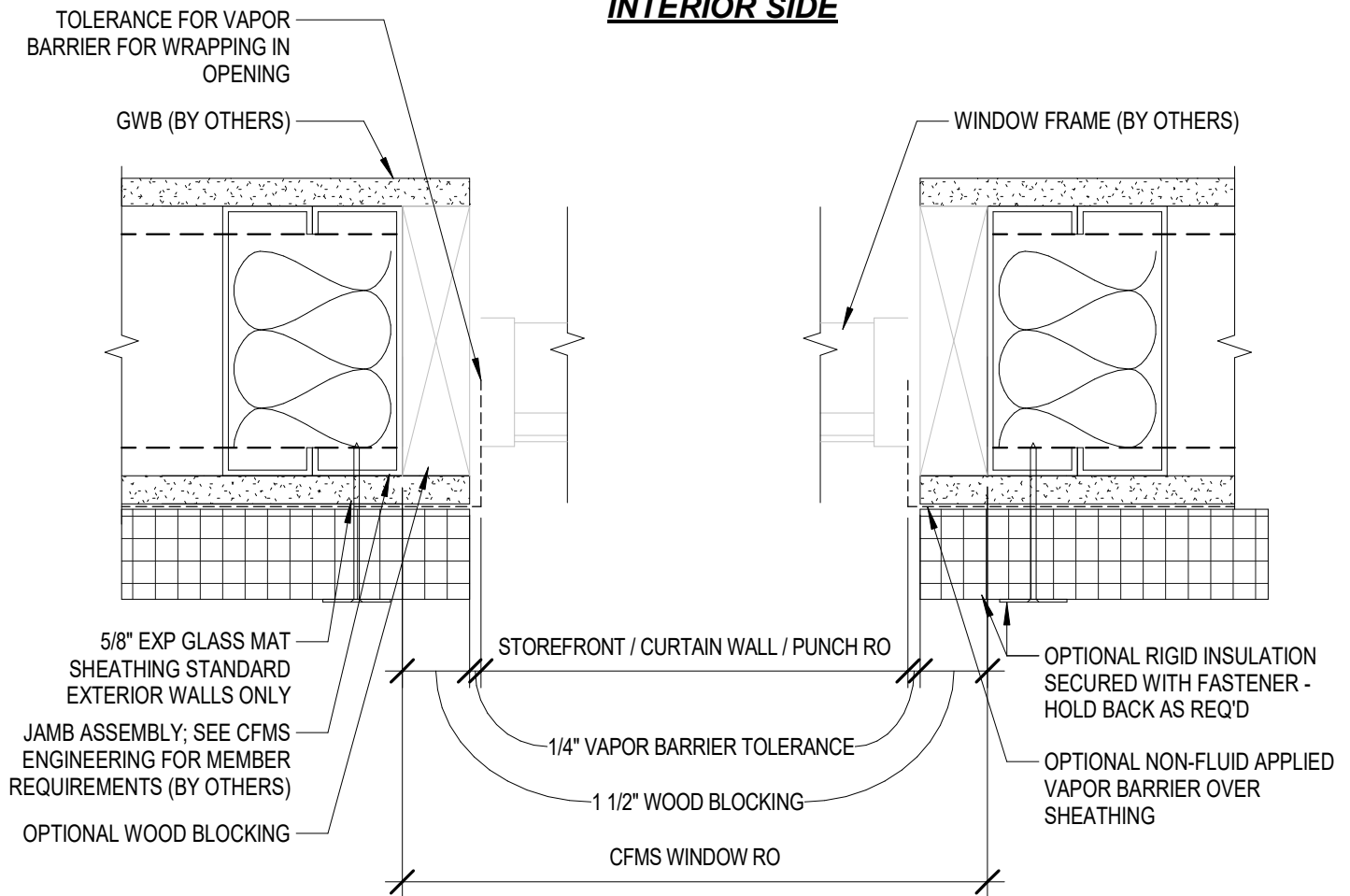
1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-15

INTERIOR SIDE



EXTERIOR SIDE

***WINDOW SHOP DRAWINGS REQUIRED
PRIOR TO PANEL FABRICATION**

KLOVER

**WINDOW & CURTAIN WALL JAMB
WITH BLOCKING**

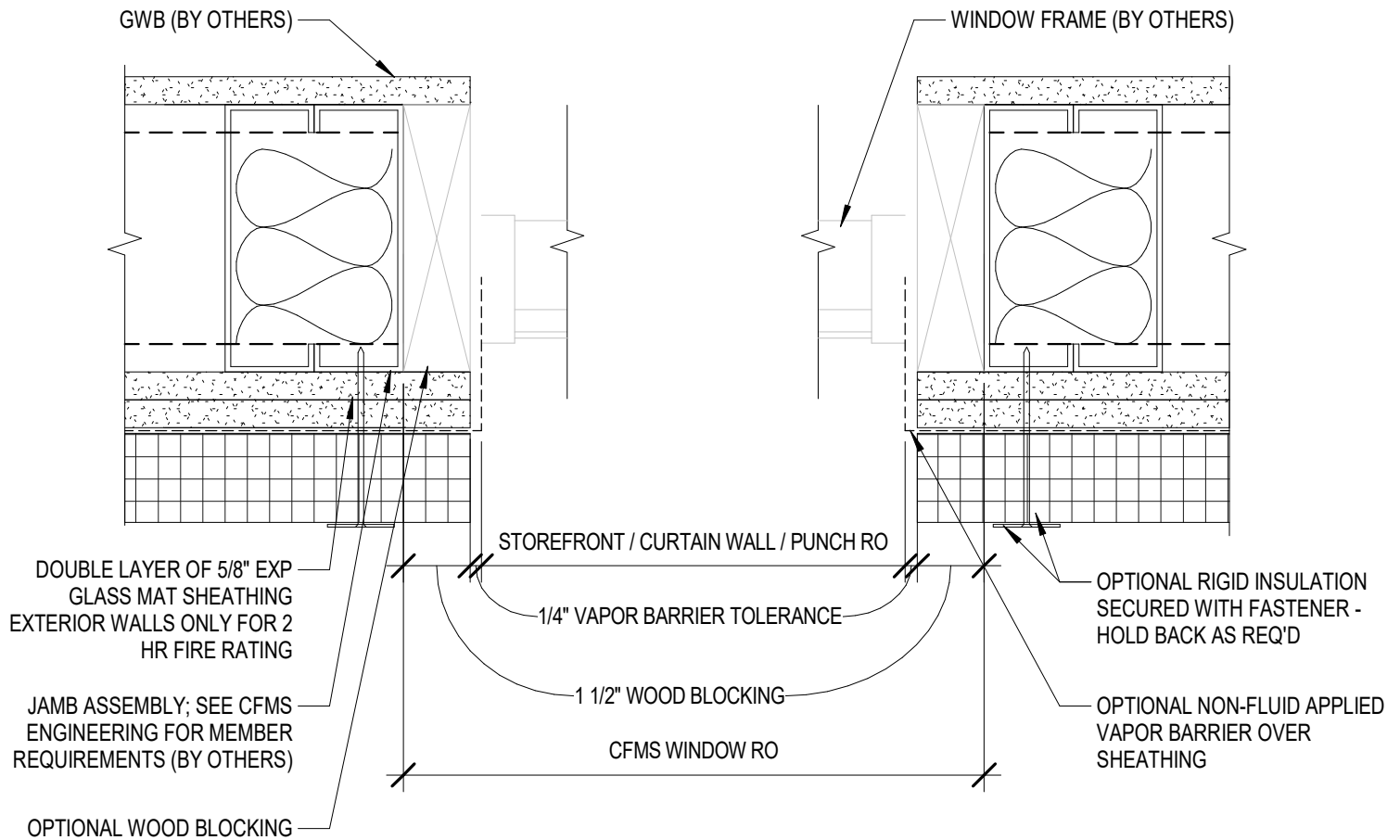
1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-16

INTERIOR SIDE



EXTERIOR SIDE

***WINDOW SHOP DRAWINGS REQUIRED
PRIOR TO PANEL FABRICATION**

KLOVER

**WINDOW & CURTAIN WALL JAMB
WITH BLOCKING 2 HR.**

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 3" = 1'-0"

Date: 06/29/21

KWG-C-FO-17

EXTERIOR

OUTSIDE CORNER

SHEATHING WRAPPED ON
PANEL ENDS, AS REQUIRED

OPTIONAL RIGID INSULATION
SECURED WITH FASTENER -
HOLD BACK AS REQ'D

5/8" EXP GLASS MAT SHEATHING
STANDARD EXTERIOR WALLS ONLY

OPTIONAL NON-FLUID APPLIED
VAPOR BARRIER OVER SHEATHING

INSIDE CORNER

PANEL JOINT

1/4" JT

1/4" JT

INTERIOR

7/8" JT

ENLARGED PANEL JOINT
ALLOWS SHEATHING TO
COVER ENTIRE PANEL

1'-4" TYP.

SEE CFMS ENGINEERING

KLOVER

PANEL JOINTS- EXTERIOR

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 1 1/2" = 1'-0"

Date: 06/29/21

KWG-C-PJ-01

EXTERIOR

OUTSIDE CORNER

SHEATHING WRAPPED ON
PANEL ENDS, AS REQUIRED

OPTIONAL RIGID INSULATION
SECURED WITH FASTENER -
HOLD BACK AS REQ'D

DOUBLE LAYER OF 5/8" EXP GLASS
MAT SHEATHING EXTERIOR WALLS
ONLY FOR 2 HR FIRE RATING

OPTIONAL NON-FLUID APPLIED
VAPOR BARRIER OVER SHEATHING

INSIDE CORNER

PANEL JOINT

1/4" JT

1/4" JT

INTERIOR

1 1/2" JT

ENLARGED PANEL JOINT
ALLOWS SHEATHING TO
COVER ENTIRE PANEL

1'-4" TYP.

SEE CFMS ENGINEERING

KLOVER

PANEL JOINTS - EXTERIOR 2 HR.

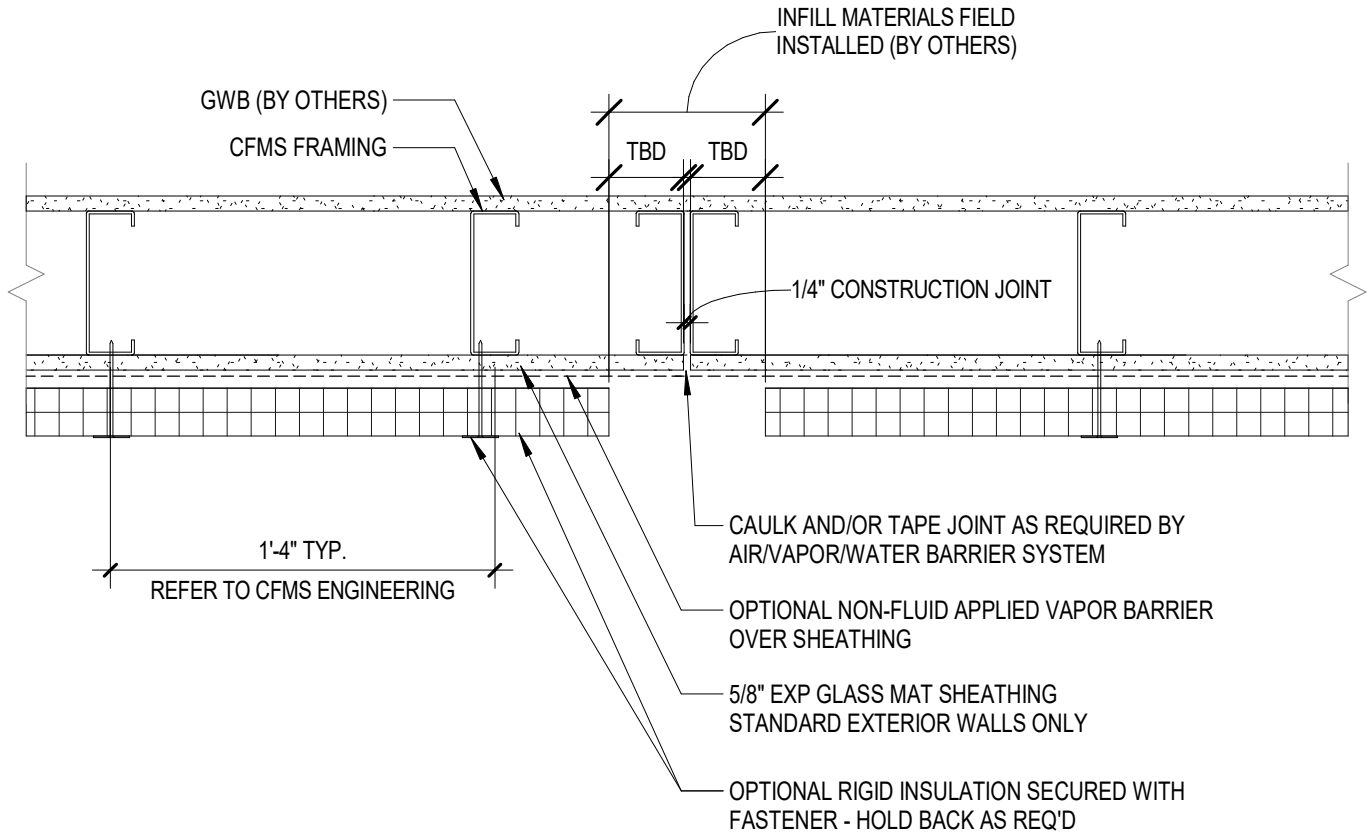
1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 1 1/2" = 1'-0"

Date: 06/29/21

KWG-C-PJ-02

INTERIOR



EXTERIOR



1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

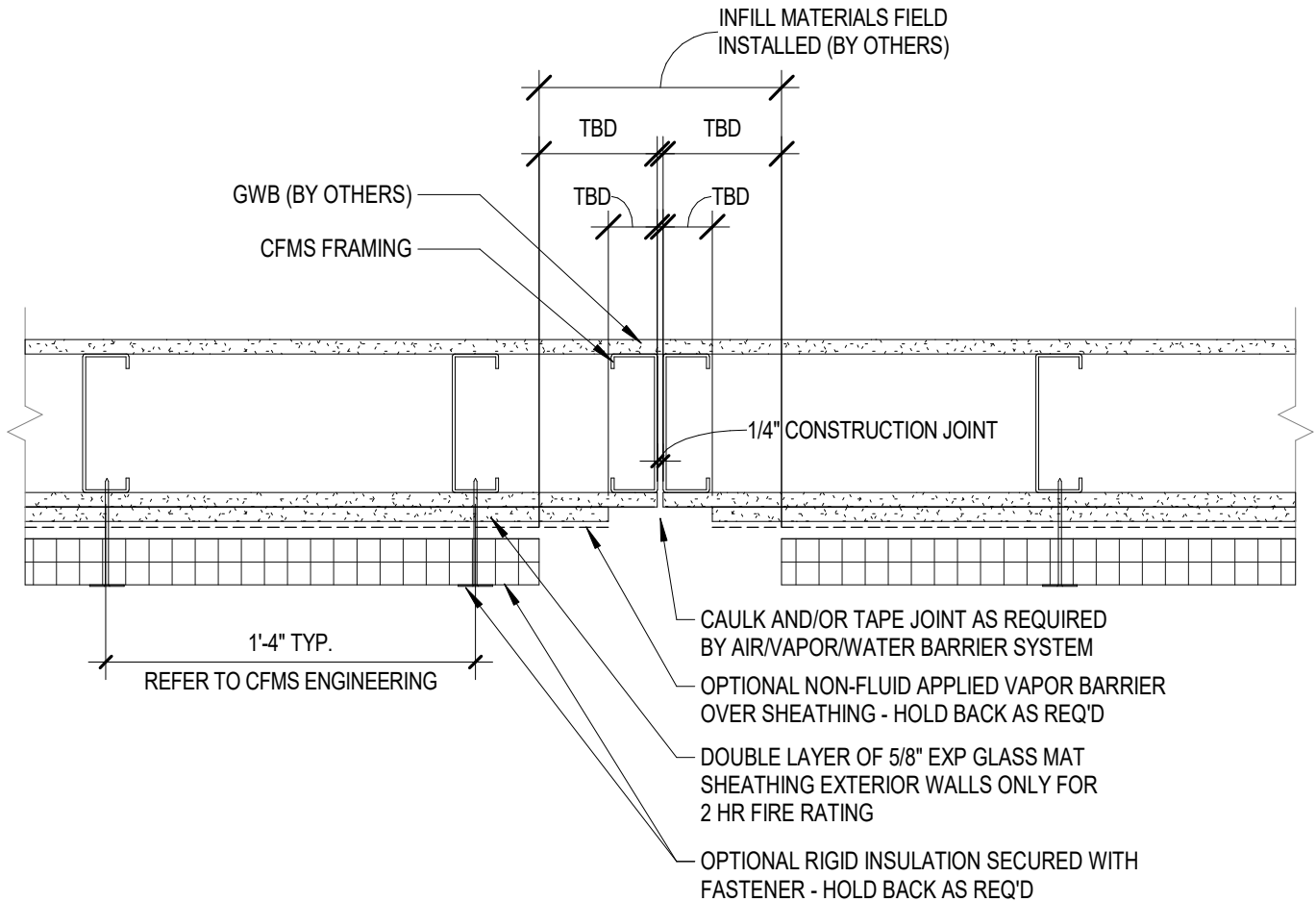
PANEL JOINT - VAPOR BARRIER
FIELD TAPING OVER SHEATHING

Scale 1 1/2" = 1'-0"

Date: 06/29/21

KWG-C-PJ-03

INTERIOR



EXTERIOR



PNL JNT - VAPOR BARRIER FIELD
TAPING OVER SHEATHING 2 HR.

1121 RICHLAND COMMERCE DRIVE; SUITE B
QUAKERTOWN, PA 18951

Scale 1 1/2" = 1'-0"

Date: 06/29/21

KWG-C-PJ-04