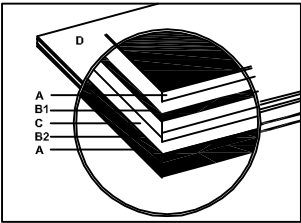


GENERAL NOTES:

These Reynobond® composite panels shall be used for wall, soffit, canopy, fascia construction, or as a wall cladding system. Each actual wall project shall be constructed using the details shown on these drawings as minimum required specifications. Panels can run horizontally or vertically. Steel metal frames must be 90 degrees relative to the stiffener / retainer. Over CMU or concrete no restrictions apply.

- A - METAL SKIN
B - TIE LAYER BETWEEN SKIN AND CORE
C - CORE POLYMERIC COMPOUND (FR - Fire Retardant)
(NC - No Core Material Used)
(Core thickness may vary upon material skin type)
D - FINISH - paint finish or natural metal surface



PERFORMED TESTS

DESCRIPTION	TEST
a) Tensile Test	ASTM E-8
b) Self Ignition	ASTM D-1929
c) Flame Spread 1	ASTM E-84
d) Smoke Developed 1	ASTM E-84
e) Thermal Barrier	ASTM E119
f) Interior Finish Application	
Fire Test	UL 1715
g) Multi-story Fire Test	NFPA 285
h) Fire Test of Building Construction & Materials	UL 263 R8343

BILL OF MATERIALS

1. PANEL MATERIAL: **Reynobond®** metal composite material, FR 4 mm and 6mm thick,or NC 3.3 mm thick, as manufactured by ARCONIC Architectural Products.
- a) FR ALUMINUM PANEL SKIN THICKNESS 0.020" inches (3105-H25)
b) FR ZINC PANEL SKIN THICKNESS 0.028" ZINC ALLOY (NOTES: 1) ONLY UP TO 100 PSF,
c) FR STAINLESS STEEL PANEL SKIN THICKNESS 0.018" SS ALLOY 304 or 316L
d) FR TITANIUM PANEL SKIN THICKNESS 0.018", back skin Stainless Steel .0018"
e) NC TWO ALUMINUM SKINS OF THICKNESS 0.063", BONDED DIRECTLY TOGETHER WITH SINGLE TIE LAYER (NO CORE MATERIAL)
2. ALUMINUM EXTRUSIONS. Aluminum alloy 6063 - T6 temper, mill finish
- a) FRAME (CONTINUOUS)
b) CLIP (CONTINUOUS)
c) STIFFENER (CONTINUOUS)
d) RETAINER
e) CORNER ANGLE
3. METAL STUDS 16ga galvanized or painted steel (per applicable codes to prevent corrosion) with minimum properties of 50 Ksi yield, 65 Ksi ultimate. Minimum 1 5/8" flange, 6" web. Calculations must be provided by a registered engineer
4. STUD TO TRACK FASTENERS and ANGLE TO BRIDGING FASTENERS and ANGLE TO STUD FASTENERS #8-18 x ¾" Phillips Head Galvanized Steel Pan Tek Screw or similar.
5. PANEL TO FRAME FASTENERS.
#10 x 1" wafer head, self drilling, self tapping, galvanized steel screws, at 16" O.C., at all Panel Perimeter Returns.
6. HORIZONTAL AND VERTICAL JOINT SILICONE (as needed).
- a) Dow Corning #995 - 170 PSI - One part.
b) Dow Corning #983 - 170 PSI - Two parts.
c) Dow Corning #795 - 100 PSI - One part. Horizontal, Vertical and perimeter joint - Weather seal.
d) Dow Corning #795 - 100 PSI - One part. Cap Bead - Weather seal.
e) Dow Corning #795 - 100 PSI - One part. Panel to frame, frame and corner weather seal.
(Only for dry seal system. For wet seal system do not apply)
Dow Corning #795 can be replaced by Dow Corning "CWS"
- f) Where water intrusion is not a requirement, the system can be used as rain screen, see Detail 14, Sht 21
No "weather sealant" silicone required - B.O.M. # 15, # 06d, # 06e, # 06c, # 07a
Recommended use of stainless steel screws B.O.M. # 05, # 08
7. BACKER ROD. (as needed)
a) 5/8" diameter, open cell. b) 1 ½" diameter, open cell. c) 2" diameter, open cell.

8. CLIP AND RETAINER TO SUBSTRATE FASTENER (as needed)
- a) 1 # 14 - HEX WASHER HEAD - 1 1/2" - DRILL POINT
b) 1 # 14 - HEX WASHER HEAD - 1" - SHARP POINT
c) 1 # 14 - HEX WASHER HEAD - 2 1/2" - DRILL POINT
d) 2 # 14 - HEX WASHER HEAD - 2 1/2" - DRILL POINT
e) 2 # 12 - HEX WASHER HEAD - 1 1/2" - DRILL POINT
f) 2 # 12 - HEX WASHER HEAD - 2 1/2" - DRILL POINT
g) 2 # 12 - HEX WASHER HEAD - 1" - SHARP POINT
h) 1 1/4" - ELCO ULTRACON - 2 1/2"
i) NOT USED
j) 2 # 14 - HEX WASHER HEAD - 1 1/2" - DRILL POINT
k) 2 # 12 - HEX WASHER HEAD - 2 1/2" - DRILL POINT
(Note: increase anchor length as needed for full penetration)

CHART AND SCHEDULE (Aluminum clip to stud)

Reynobond® Product	Substrate Backer	Stud Spacing	Max Screw Spacing "other than perimeter"	Design Pressure PSF	Impact Rating	Building Applicability
Reynobond® FR Aluminum Titanium Stainless Steel Zinc** or Reynobond® NC <small>** Reynobond Zinc is approved for all applicable installation conditions however, only at a design pressure of 100 psf. Reynobond Zinc only available in FR</small>	7.2" RIB 20 ga. steel panel	36" O.C.	(1) 24" O.C. vert. 14.4" O.C. Horz.	100	Small & Large Missile Impact	Above & Below 30 feet
			16" O.C. Vert. (2) 14.4" O.C. Horz.	130		
	PLYWOOD MIN. 5/8"	24" O.C.	(1) 24" O.C.	100		
		16" O.C.	(1) 16" O.C. (2) 16" O.C.	120 130		
	CMU Concrete	N/A	(1) 24" O.C.	100		
		N/A	(1) 16" O.C.	130		

Note a) Perimeter (1) #14 screw spacing 16" O.C. up to 130 psf
b) Perimeter (1) #14 screw spacing 24" O.C. up to 100 psf

Joint Sizes (other than perimeter) 1/2" to 3/4" (1) #14 screw
1-1/2" (2) #12 screws
Joint Sizes (perimeter) up to 2.5" (1) #14 screw

9. TRACK TO WOOD FRAME FASTENER. 5/16" x 2.5" galvanized steel LAG screw with washer. At 12" O.C. MAX.

10. 2 x 12" YELLOW PINE WOOD.

11. METAL TRACK 16ga galvanized steel or painted (per applicable codes to prevent corrosion) with minimum properties of 50 Ksi yield, 65 Ksi ultimate.

12. BRIDGING CHANNEL. 16ga galvanized or painted (per applicable codes to prevent corrosion) steel with minimum properties of 50 Ksi yield, 65 Ksi ultimate. Standard 1/2" flange, 1 1/2" web.
WALLS UP TO 10' HEIGHT 1 ROW @ MID-HEIGHT.
WALLS EXCEEDING 10' HEIGHT BRIDGING ROW SPACED NOT TO EXCEED 5' 0" O.C.

13. UTILITY ANGLE. 16ga galvanized or painted (per applicable codes to prevent corrosion) steel with minimum properties of 50 Ksi yield, 65 Ksi ultimate. Standard 6" wide, 2" leg dimensions. (Bridge Clip or equal).

14. SHIMS Standard glazing shims as needed. (Max. Perimeter 3/4"; Other than perimeter 1/2")

15. Uni-Grip ¼" neoprene hollow gasket.

16. 7.2" RIB 20 GAUGE STEEL GALVANIZED OR PAINTED PROFILE PANEL OR METAL DECK MIN 1.5" RIB DEPTH. (Framing must be calculated by a Professional Engineer)

17. STEEL BUCK.

18. Rebar Reinforced Concrete as per Florida Building Code

19. Rebar Reinforced CMU block as per Florida Building Code

20. PLYWOOD 5/8" - Option to be Pressure Treated and/or Fire Prof.

Notes Screw 08h: ASTM C-90 CMU and 2.85 ksi min. CONCRETE edge condition restrictions
(All references and limitations are measured from the CONCRETE or CMU edge)

- 1) Minimum fastener embedment required: 1.75" in CONCRETE, 1.25" in hollow CMU, 2.25" in grout-filled CMU.
2) Ensure min. center-to-center distance between any two Ultracons of: 4" in CONCRETE, 6" in hollow CMU, and 4.5" in grout-filled CMU
3) With Ultracons at 1" minimum edge distance, in CONCRETE follow Max Screw Spacing of 16" or 24" as shown in charts. For CMU, if chart requires 16" OC then stagger fasteners at 7.75" OC for hollow CMU and 9" for grout-filled CMU. If chart requires 24" OC then stagger fasteners at 10" OC for hollow CMU and 11.75" OC for grout-filled CMU.
4) Fasteners installed on both sides of an outside corner condition must have a minimum stagger between the screws on opposing sides of the corner, of 4" min. in CONCRETE and 4.5" min. in grout-filled CMU.
5) Reference drawings: #8 on pg 12, #10 on pg 15, #9 on pg. 21

Reynobond® Product	Substrate Backer	Stud Spacing	Max Screw Spacing "other than perimeter"	Design Pressure PSF	Impact Rating	Building Applicability
Reynobond® NC <i>Flat wall construction applications only</i>	NONE	24" O.C.	(1) 24" O.C.	90	Small & Large Missile Impact	Above & Below 30 feet
		16" O.C.	(1) 16" O.C.	120		

Note a) For Reynobond NC with no backer, the details shown in these drawings with Plywood Backer may be used, with the plywood omitted from the construction (the plywood backer may optionally also be replaced with 5/8" gypsum wall board).

b) Perimeter (1) #14 screw spacing 16" O.C. min.

c) Requires Continuous Retainer, BOM # 2d

d) Max. 1/2" Wet Joint or 1/2" Rain Screen Joint (w/ Rain Screen, approved weather resistant barrier by others, and sheathing/backer by others to support WRB if needed, is required for water infiltration rated product, see Detail 14, Sheet 21)

Joint Sizes (other than perimeter) 1/2" (1) #14 screw

Joint Sizes (perimeter) up to 1.5" (1) #14 screw

ZZ

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REYNOBOND® w/ FR/NC – LARGE MISSILE IMPACT
BACKER SUPPORTS: CMU, 7.2" RIB PANEL 20ga, PLYWOOD 5/8"
BILL OF MATERIALS
ANCHOR QUANTITIES

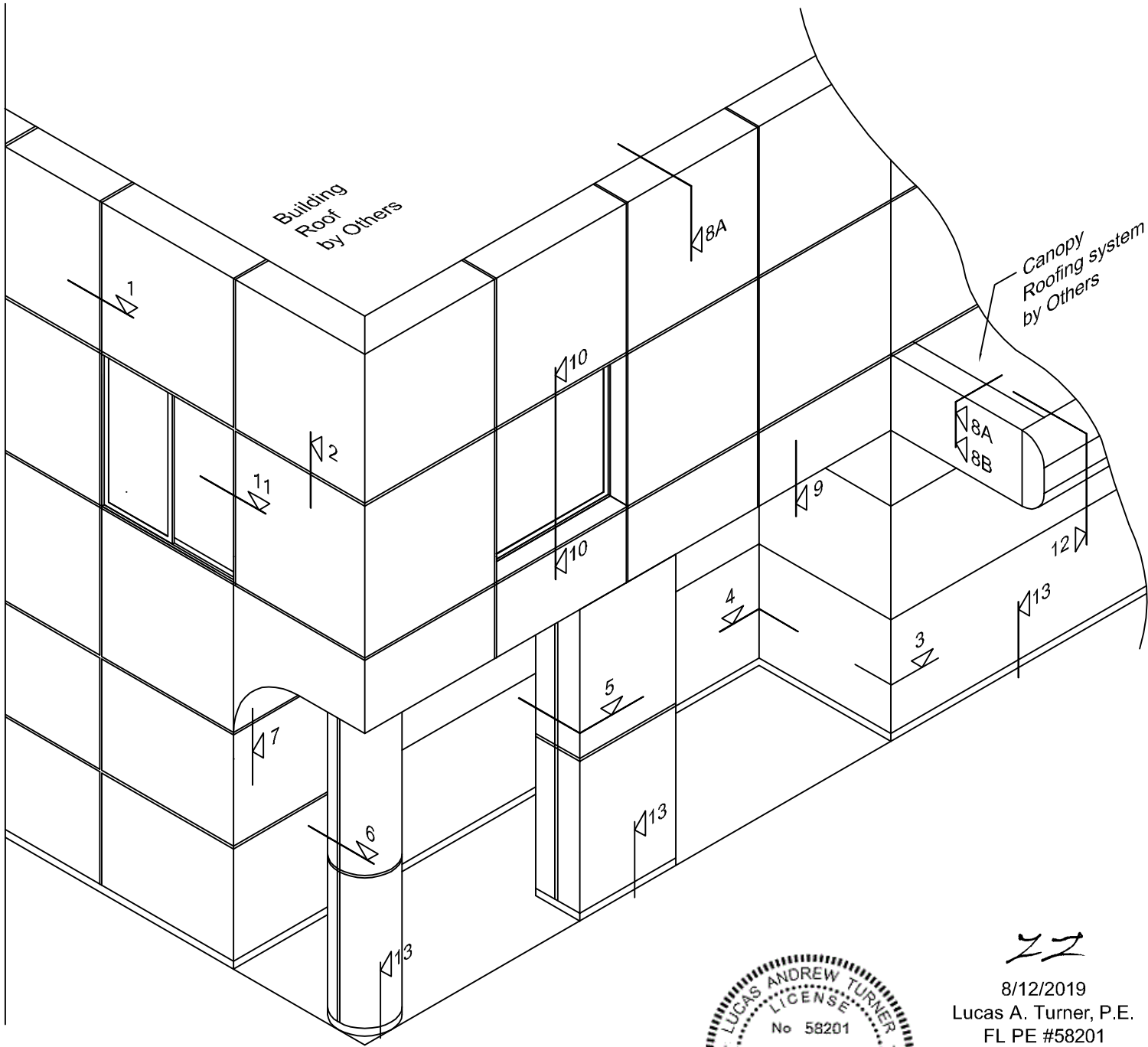
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01 OF 21


REYNOBOND® FR/NC w/BACKER SUPPORTS: CMU, 7.2” RIB PANEL 20ga, PLYWOOD 5/8”.
BUILDING DETAILS. NOTE REYNOBOND NC WITHOUT BACKER SUPPORTS IS ALLOWED FOR FLAT
VERTICAL WALL CONDITIONS ONLY.



BUILDING CONDITION		
1	VERTICAL JOINT CONDITION	
2	HORIZONTAL JOINT	
3	EXTERNAL CORNER	
4	INTERNAL CORNER	
5	COLUMN COVER	
6	CURVED CONVEX	
7	CURVED CONCAVE	
8	PARAPET	w/ FLASHING (A)
		w/ REYNOBOND (B)
9	SOFFIT	
10	RECESS OPENING	
11	FLASH OPENING	
12	CANOPY	
13	BASE BOARD	



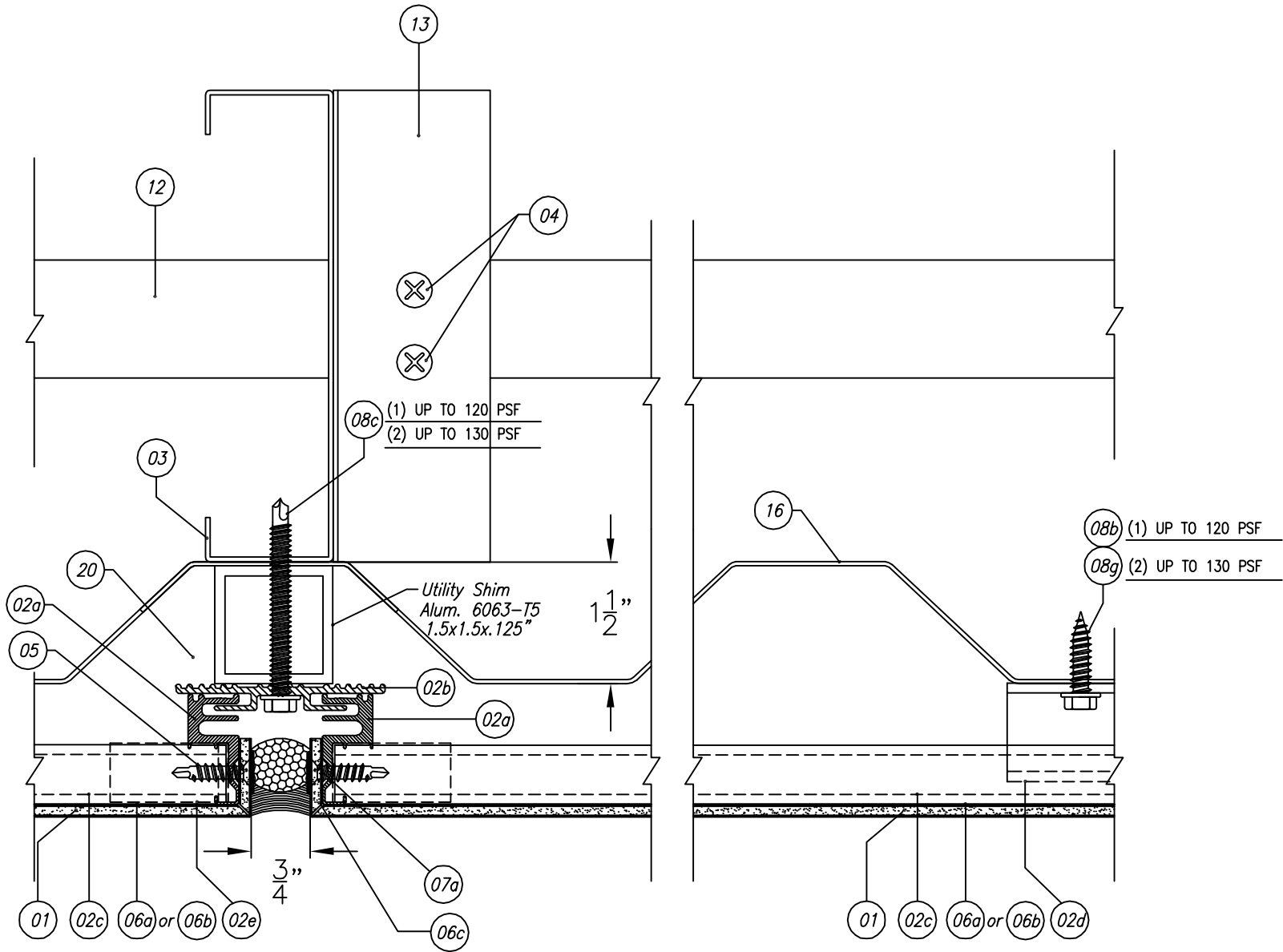
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REYNOBOND® FR/NC w/BACKER SUPPORTS: CMU, 7.2”
RIB PANEL 20ga, PLYWOOD 5/8”.

VERTICAL JOINT – 3/4” WET
NOTE: ALL JOINTS APPLY TO ANY BUILDING CONDITION

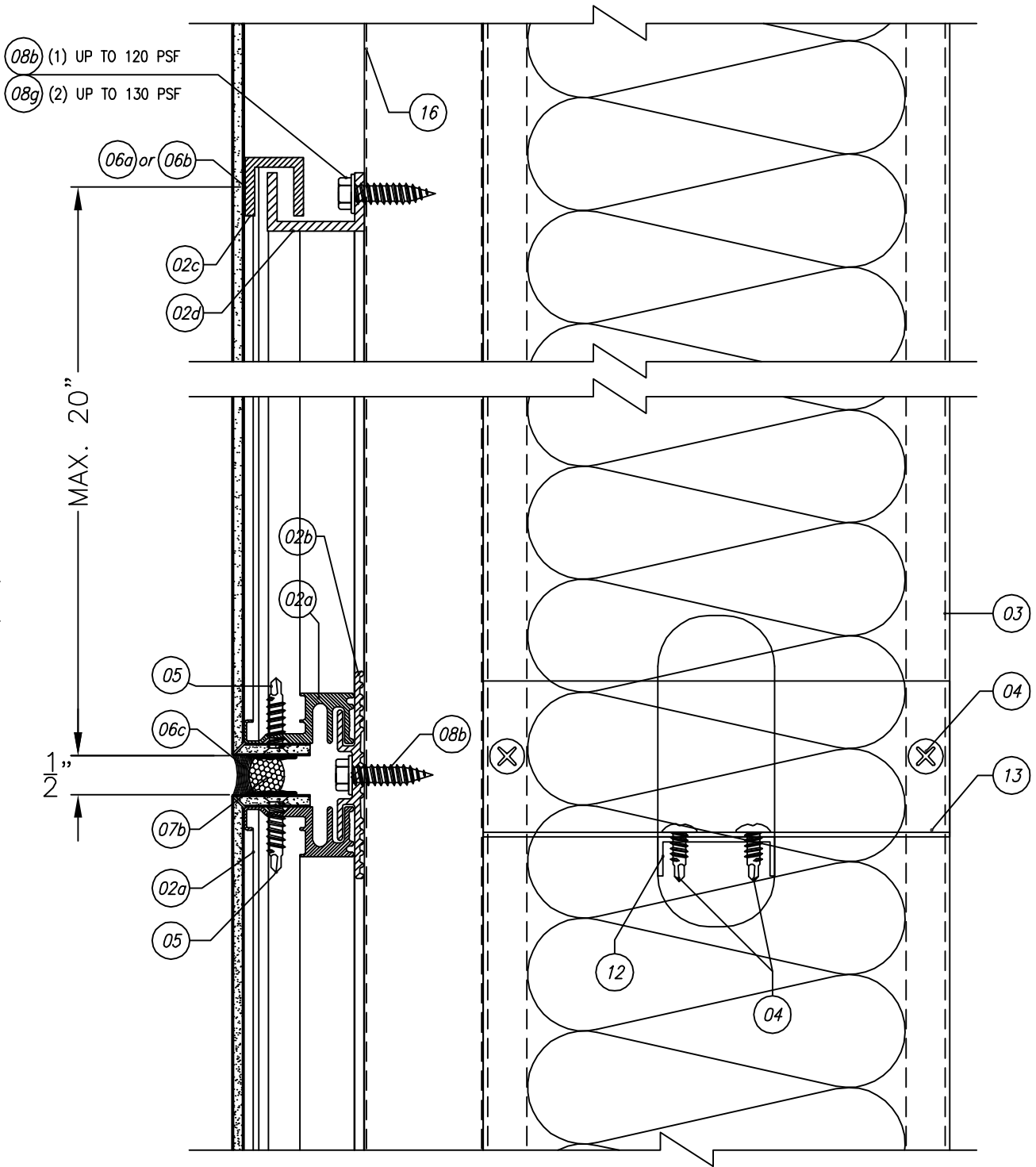
1 SECTION DETAIL
TOP / BOTTOM



REYNOBOND® FR/NC or NC w/BACKER SUPPORTS:
CMU, 7.2” RIB PANEL 20ga, PLYWOOD 5/8”.

HORIZONTAL JOINT – 1/2” WET
NOTE: ALL JOINTS APPLY TO ANY BUILDING CONDITION

2 SECTION DETAIL
RIGHT / LEFT



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BACKER SUPPORTS: CMU, 7.2” RIB PANEL 20ga, PLYWOOD 5/8”
ALL BUILDING CONDITIONS, DRY AND WET SEAL

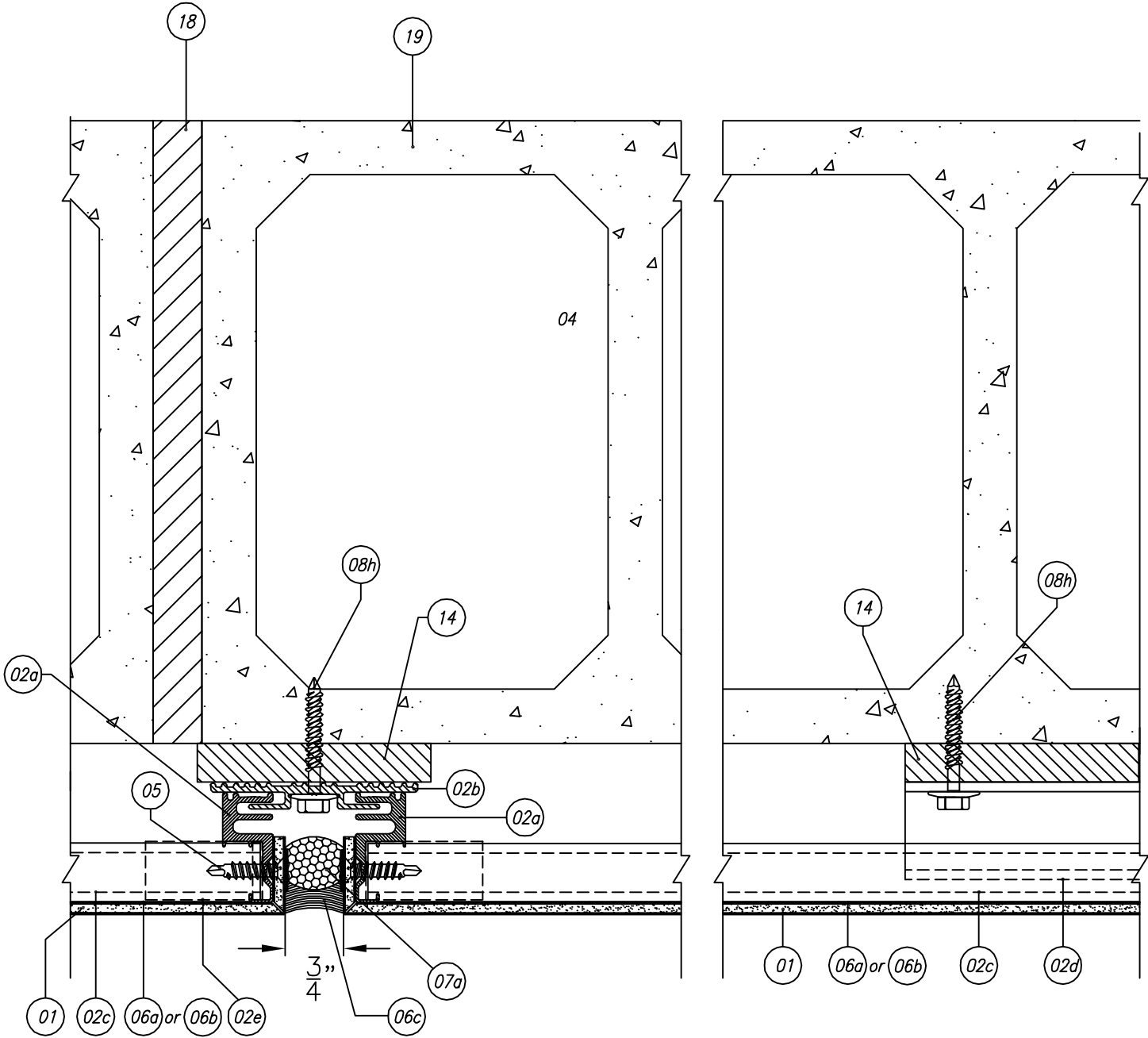
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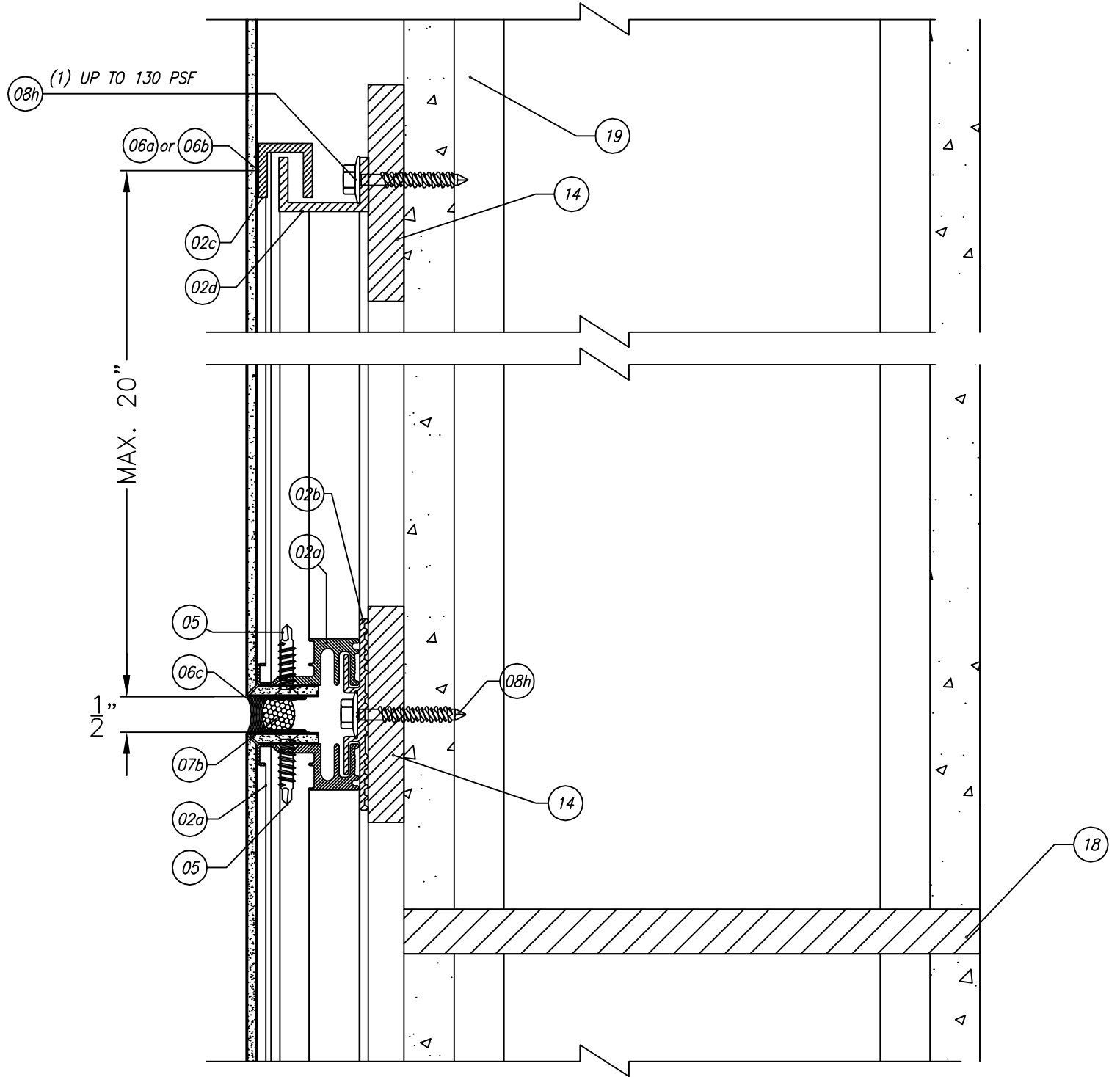
REYNOBOND® FR/NC w/BACKER SUPPORT
OVER CMU
VERTICAL JOINT – 3/4” WET
NOTE: ALL JOINTS APPLY TO ANY BUILDING CONDITION

1 SECTION DETAIL
TOP / BOTTOM



REYNOBOND® FR/NC w/BACKER SUPPORT
OVER CMU
HORIZONTAL JOINT – 1/2” WET
NOTE: ALL JOINTS APPLY TO ANY BUILDING CONDITION

2 SECTION DETAIL
RIGHT / LEFT



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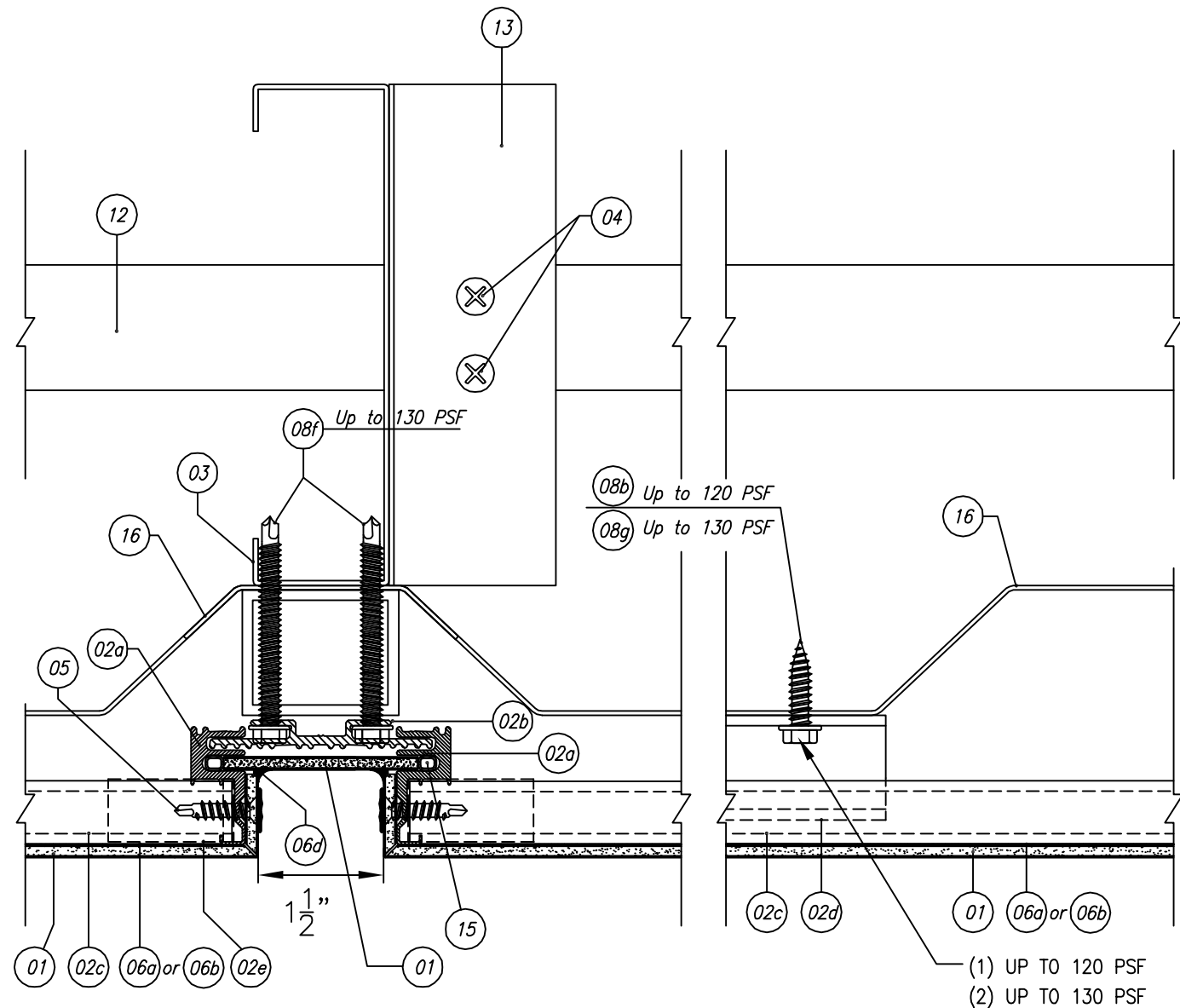
REYNOBOND® w/ FR/NC – LARGE MISSILE IMPACT
BACKER SUPPORTS: CMU / CONCRETE
ALL BUILDING CONDITIONS, DRY AND WET SEAL

DATE: 08/12/19

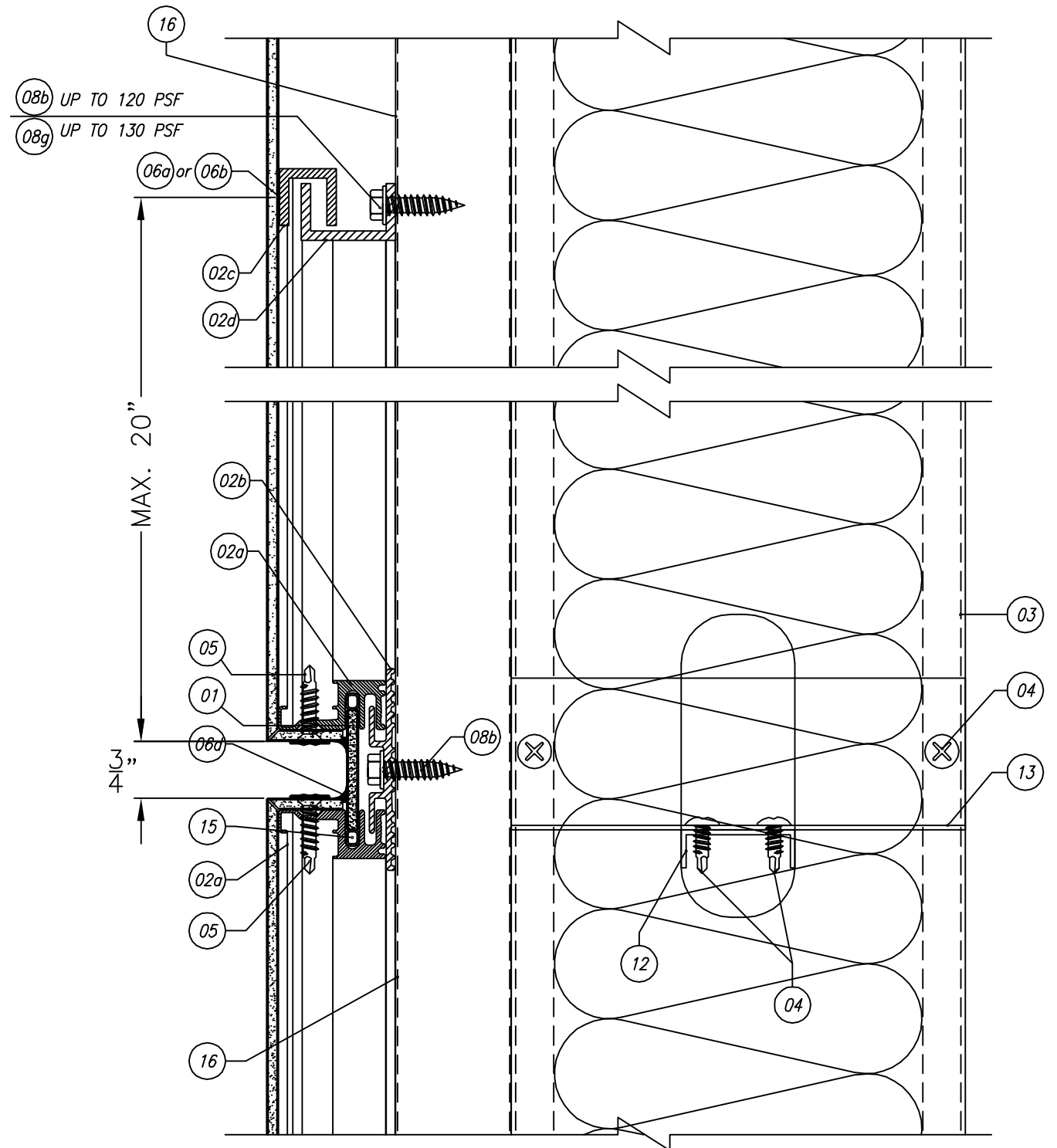
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1 SECTION DETAIL
TOP / BOTTOM



REYNOBOND® FR/NC w/BACKER SUPPORT OVER
7.2" RIB PANEL 20ga
HORIZONTAL JOINT - 3/4" DRY
NOTE: ALL JOINTS APPLY TO ANY BUILDING CONDITION



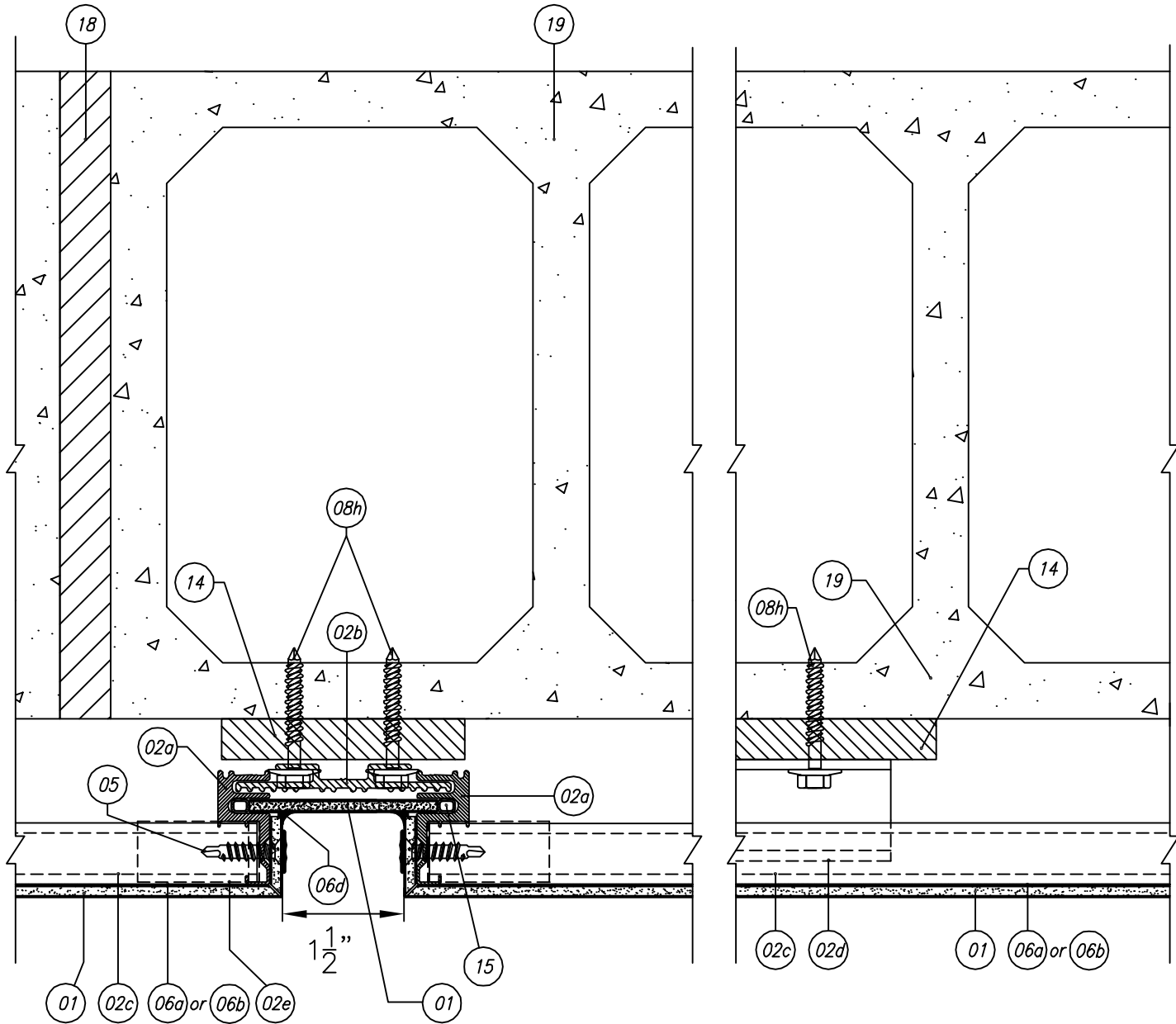
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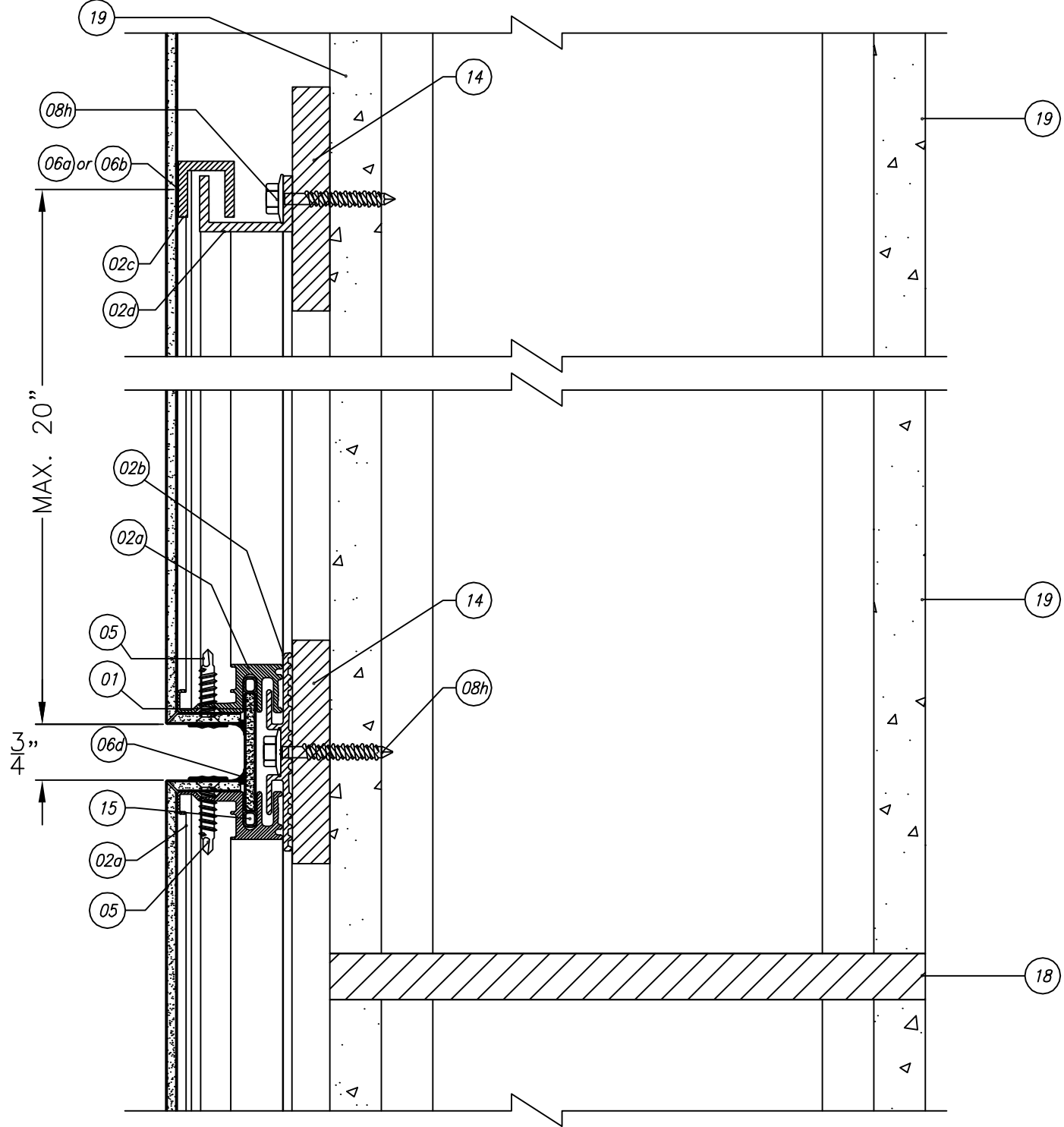
REYNOBOND® FR/NC w/ BACKER SUPPORT
OVER CMU
VERTICAL JOINT – 1 1/2” DRY
NOTE: ALL JOINTS APPLY TO ANY BUILDING CONDITION

1 SECTION DETAIL
TOP / BOTTOM



REYNOBOND® FR/NC w/ BACKER SUPPORT
OVER CMU
HORIZONTAL JOINT – 3/4” DRY
NOTE: ALL JOINTS APPLY TO ANY BUILDING CONDITION

2 SECTION DETAIL
RIGHT / LEFT



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ALL BUILDING CONDITIONS, DRY AND WET SEAL

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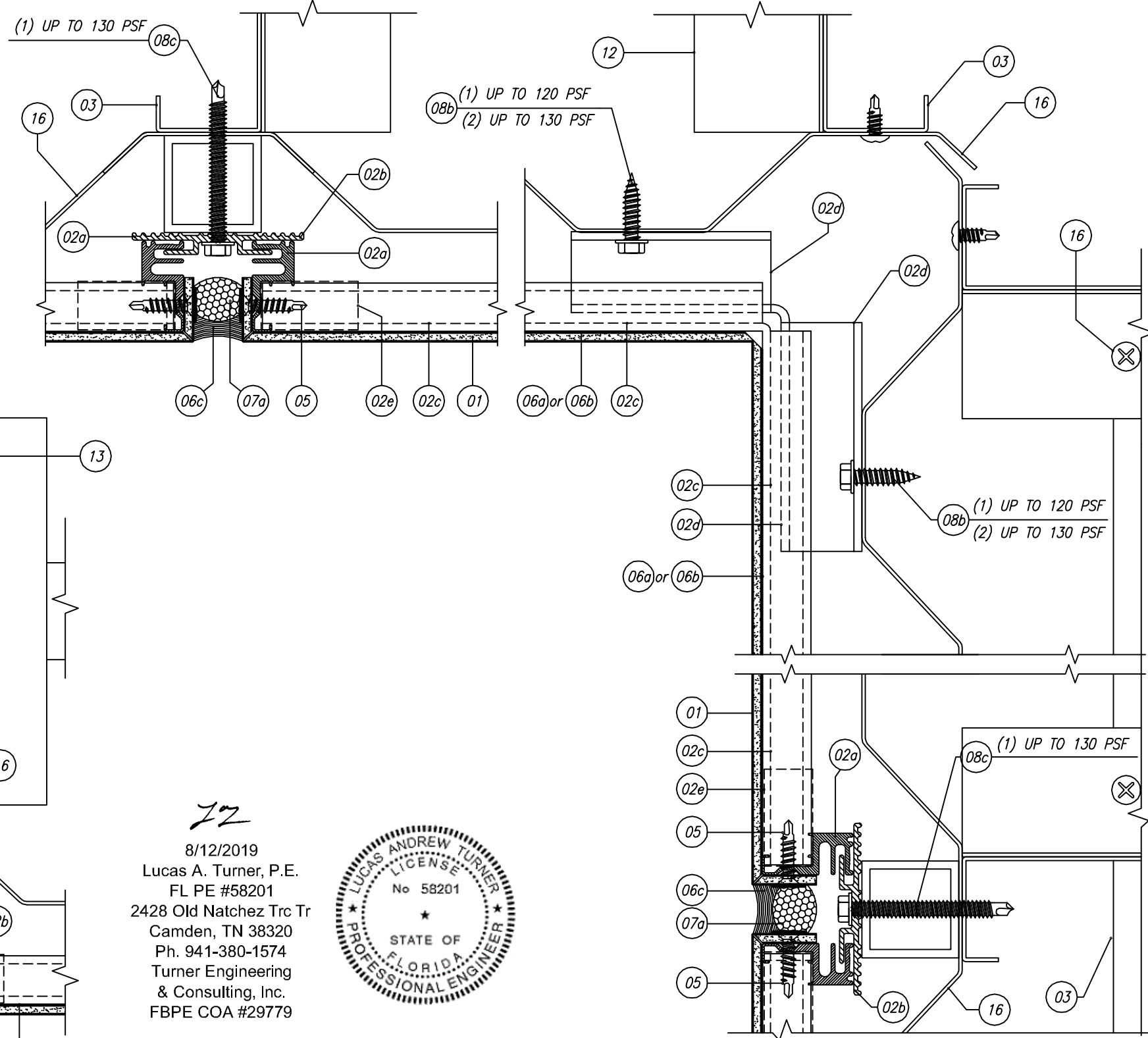
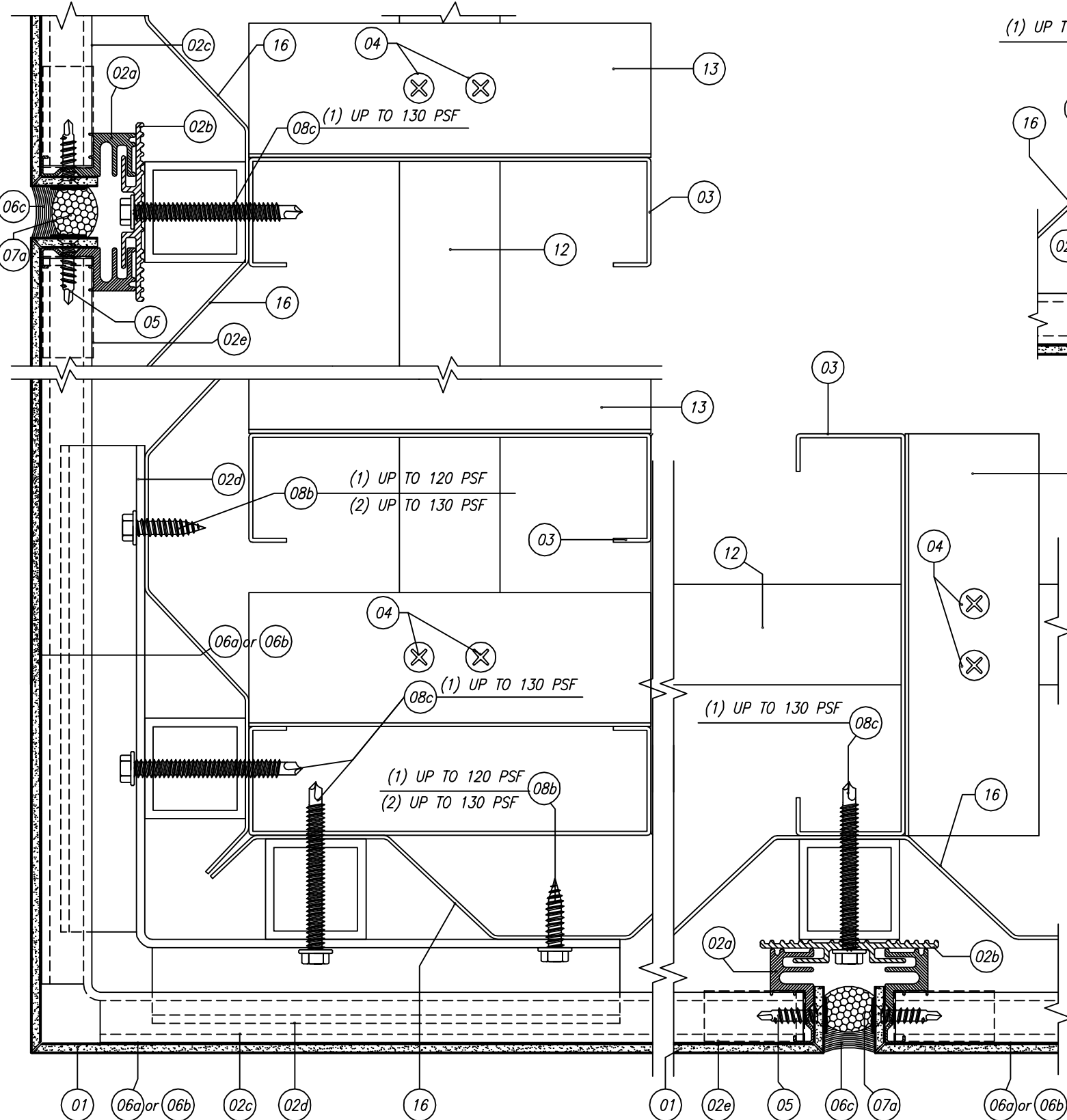
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06 OF 21

REYNOBOND® FR/NC w/ BACKER SUPPORT
7.2" RIB PANEL 20ga
EXTERNAL CORNER

3 SECTION DETAIL
TOP / BOTTOM

REYNOBOND® FR/NC w/ BACKER SUPPORT
7.2" RIB PANEL 20ga
INTERNAL CORNER

4 SECTION DETAIL
TOP / BOTTOM



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BACKER SUPPORTS: 7.2" RIB PANEL 20ga
ALL BUILDING CONDITIONS, DRY AND WET SEAL

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REYNOBOND® FR/NC w/BACKER SUPPORT
OVER CMU

EXTERNAL CORNER

3

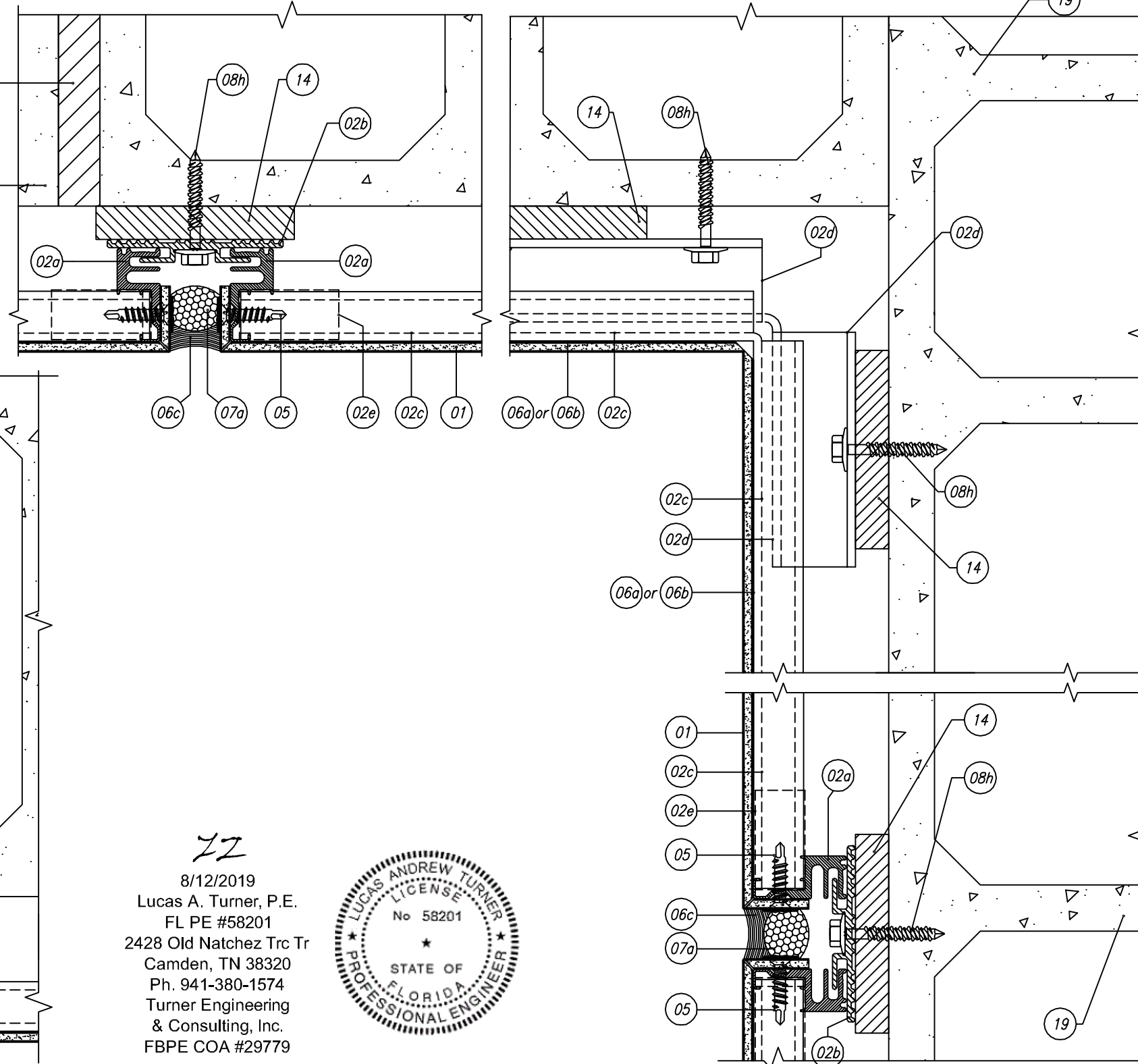
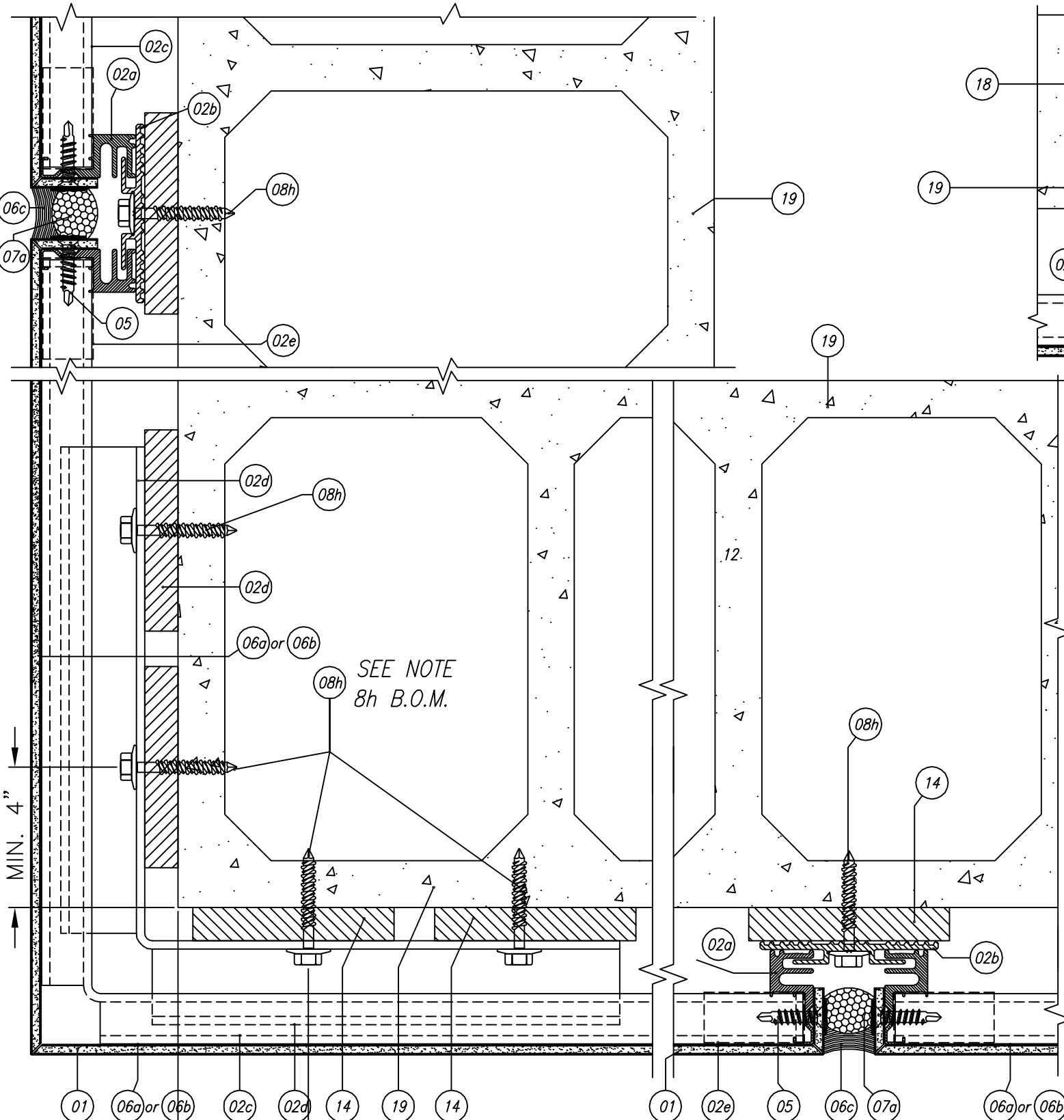
SECTION DETAIL
TOP / BOTTOM

REYNOBOND® FR/NC w/BACKER SUPPORT
OVER CMU

INTERNAL CORNER

4

SECTION DETAIL
TOP / BOTTOM



22

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BACKER SUPPORTS: CMU/CONCRETE

ALL BUILDING CONDITIONS, DRY AND WET SEAL

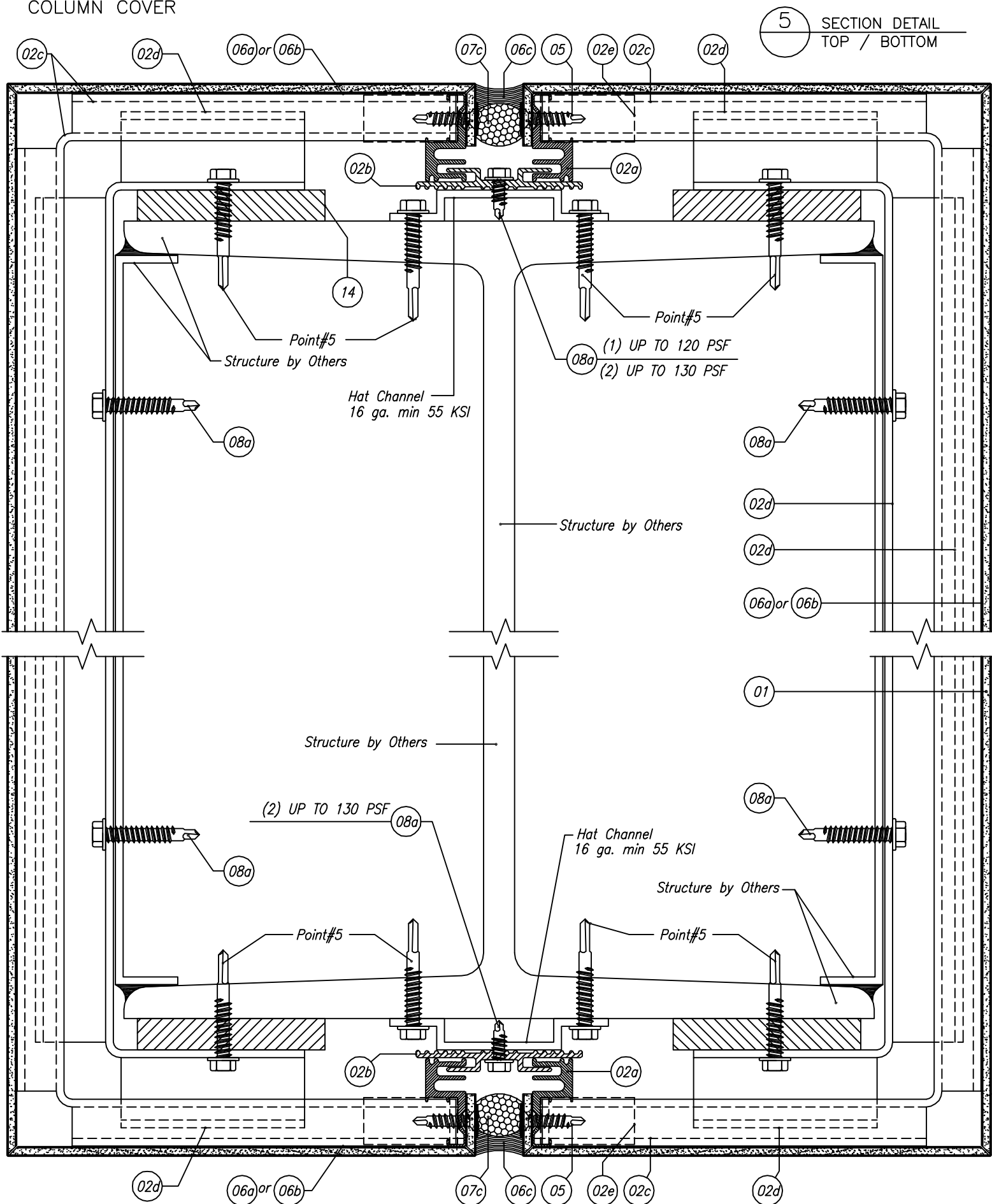
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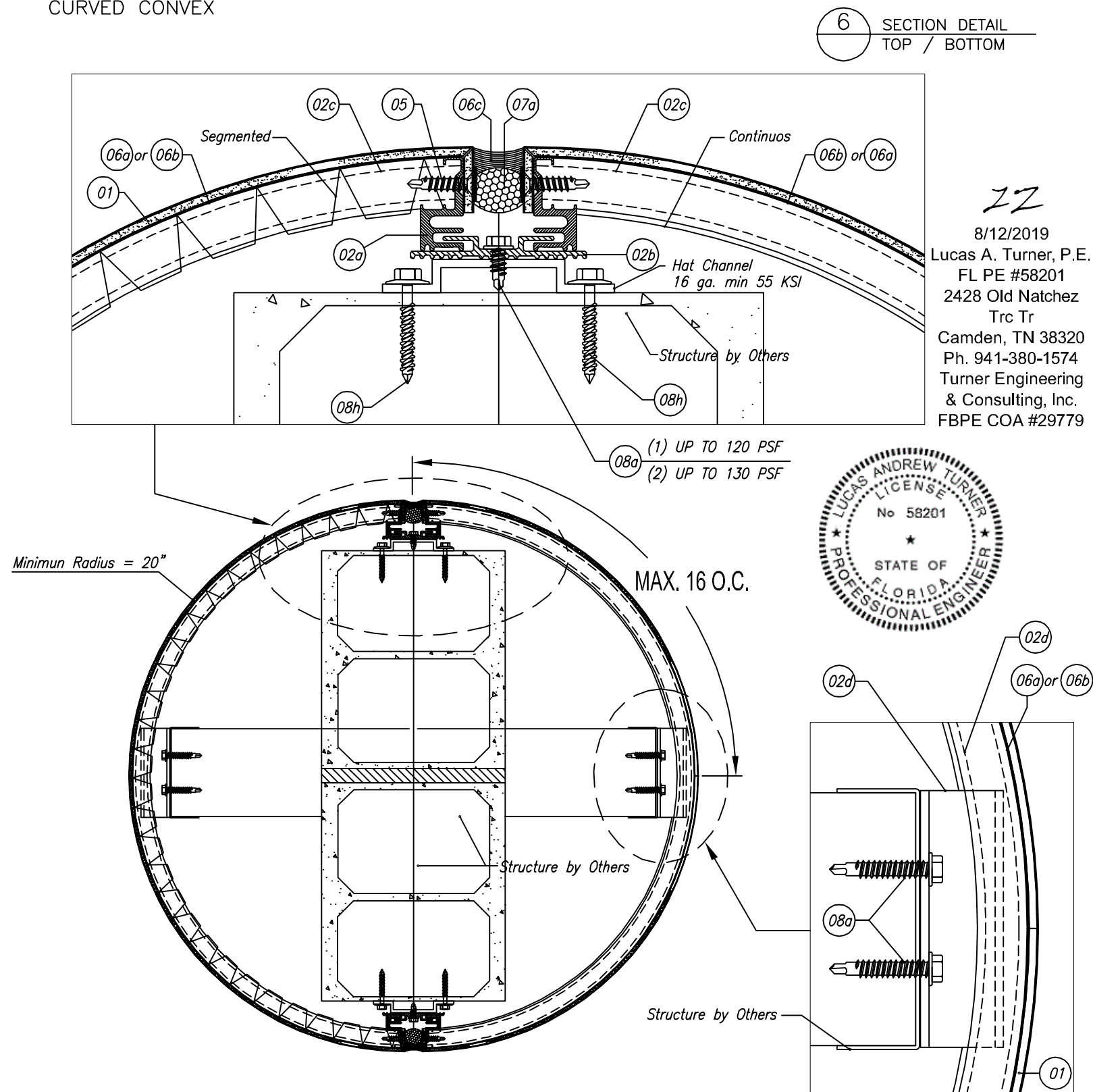
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REYNOBOND® FR/NC w/BACKER SUPPORTS: CMU, 7.2" RIB PANEL 20ga, 5/8" PLYWOOD
COLUMN COVER

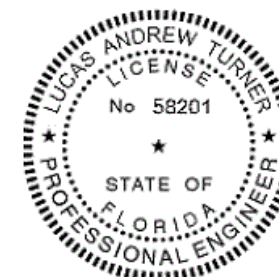


RENOBOND® FR/NC w/BACKER SUPPORTS: CMU, 7.2" RIB PANEL 20ga, 5/8" PLYWOOD
CURVED CONVEX



22

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BACKER SUPPORTS: CMU, 7.2" RIB PANEL 20ga, PLYWOOD 5/8"
ALL BUILDING CONDITIONS, DRY AND WET SEAL

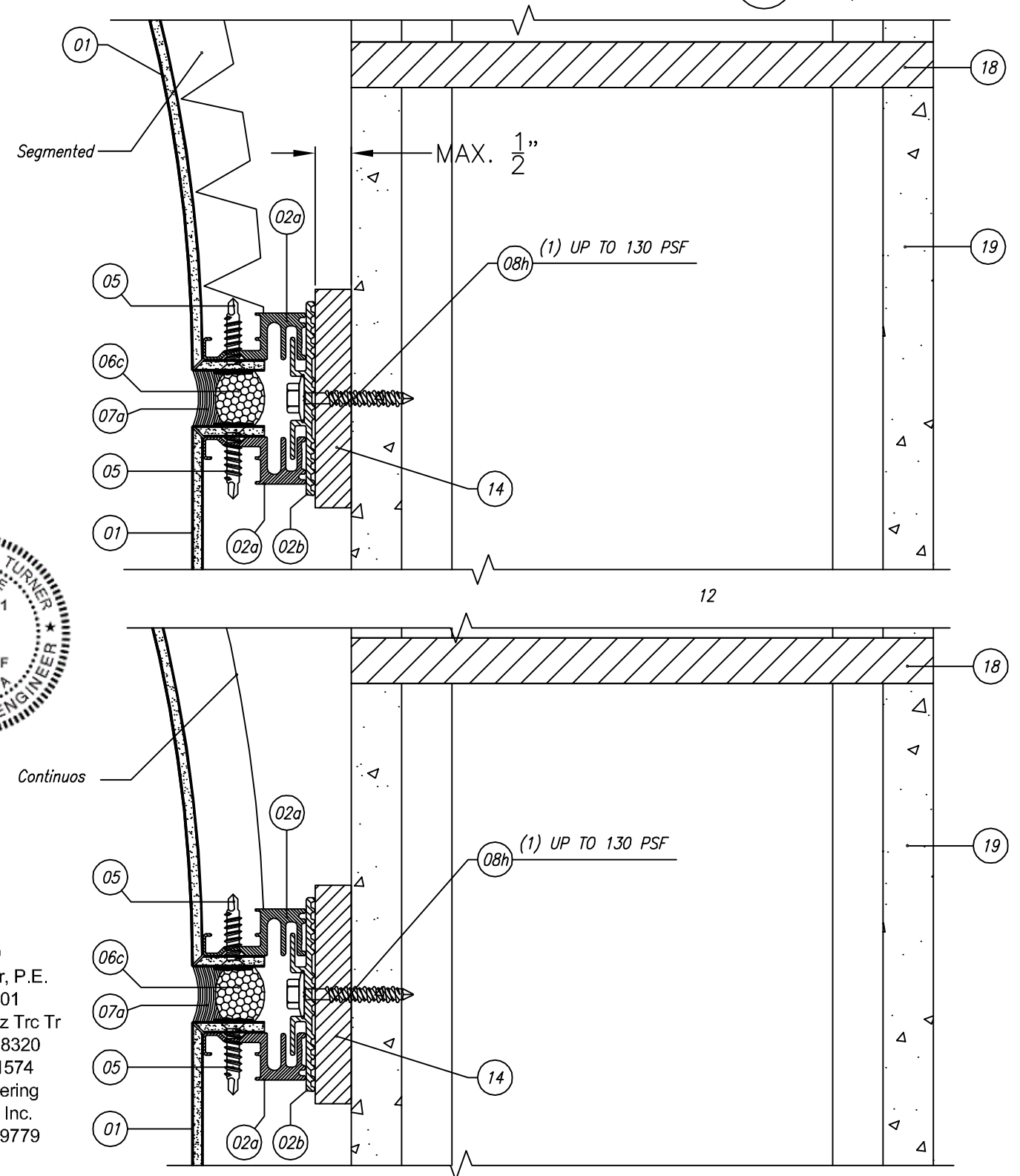
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09 OF 21

5 SECTION DETAIL
TOP / BOTTOM



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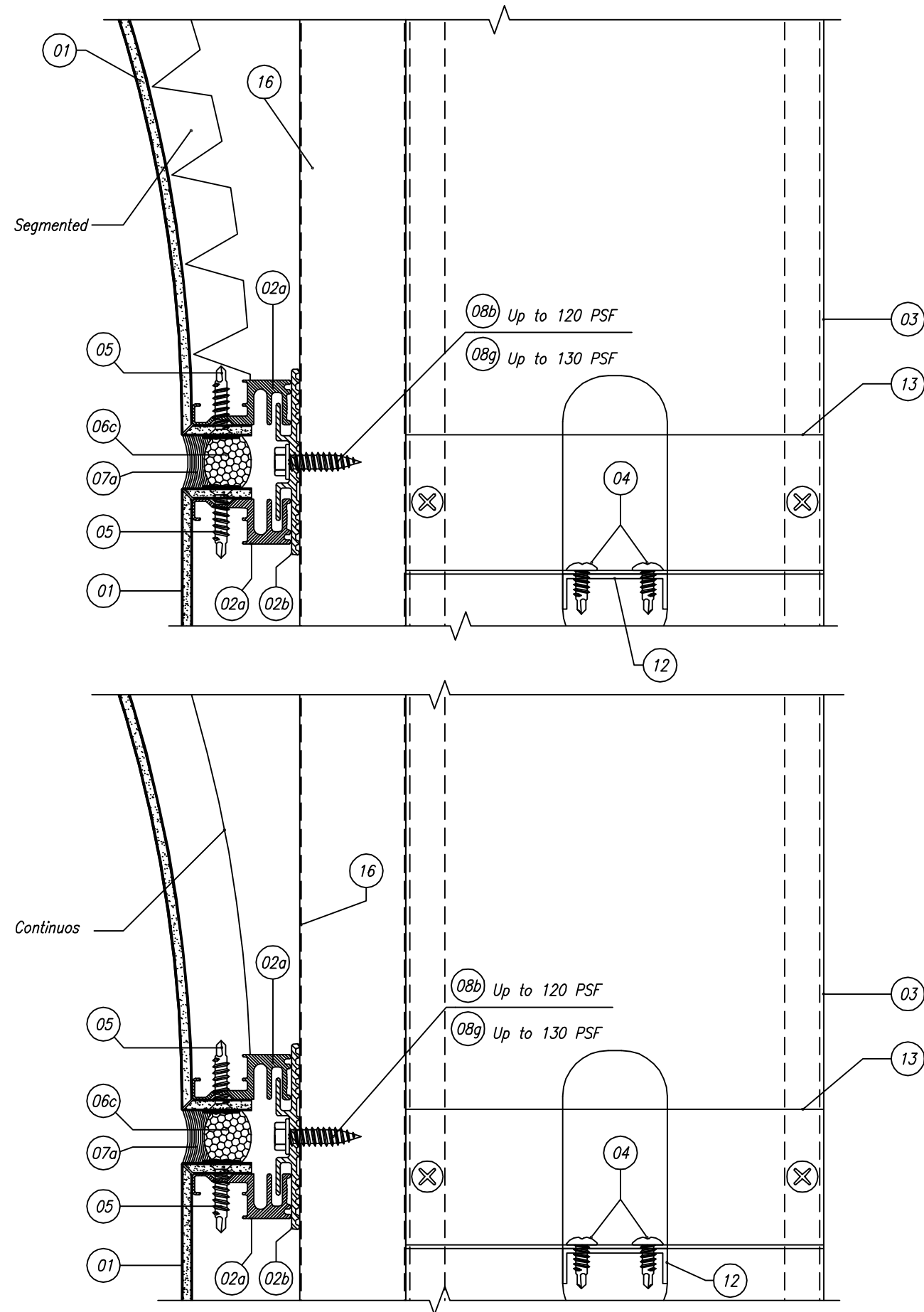
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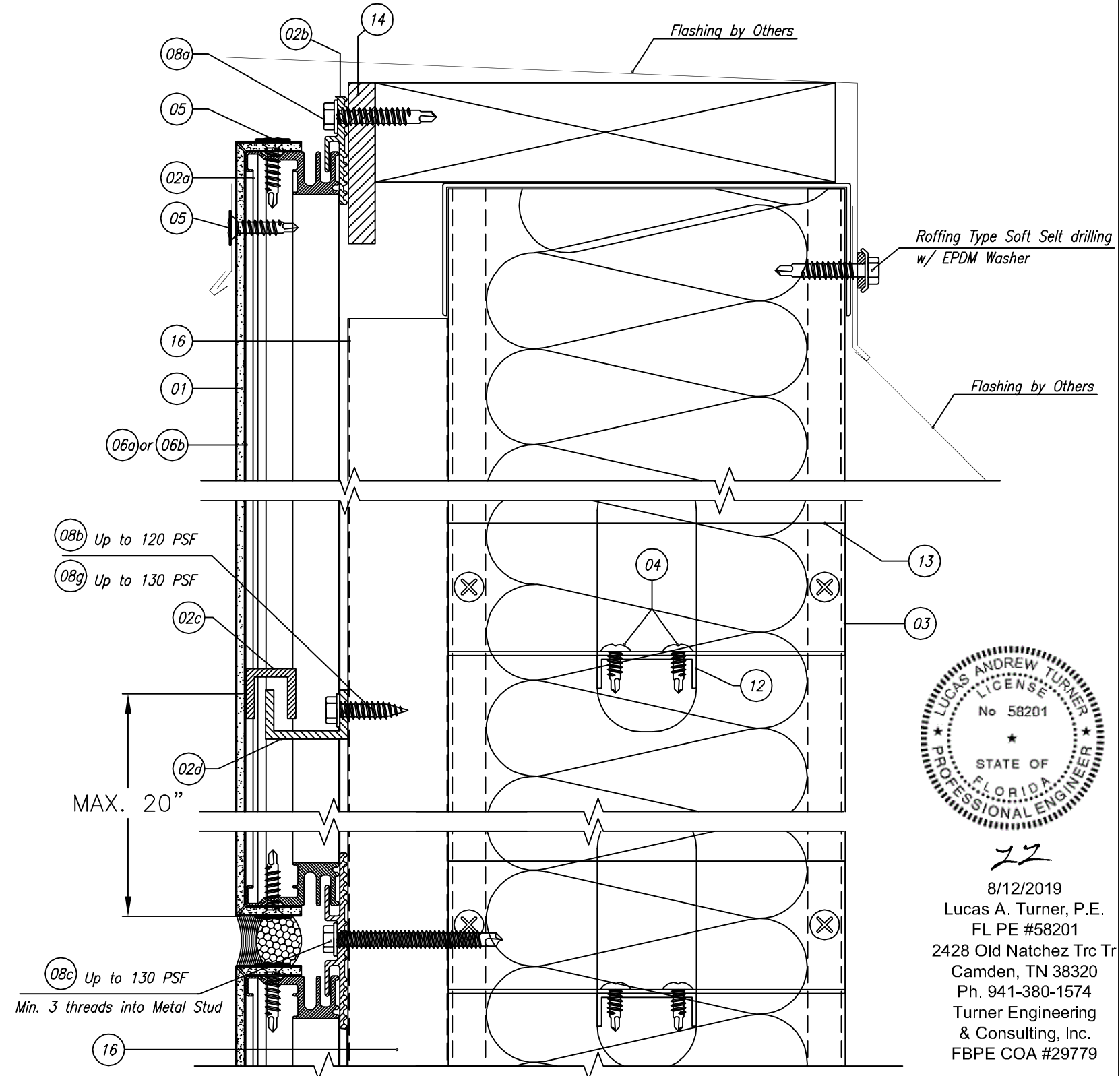
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BACKER SUPPORTS: CMU / CONCRETE
ALL BUILDING CONDITIONS, DRY AND WET SEAL

10 OF 21

7 SECTION DETAIL
LEFT / RIGHT




8 SECTION DETAIL
A RIGHT / LEFT



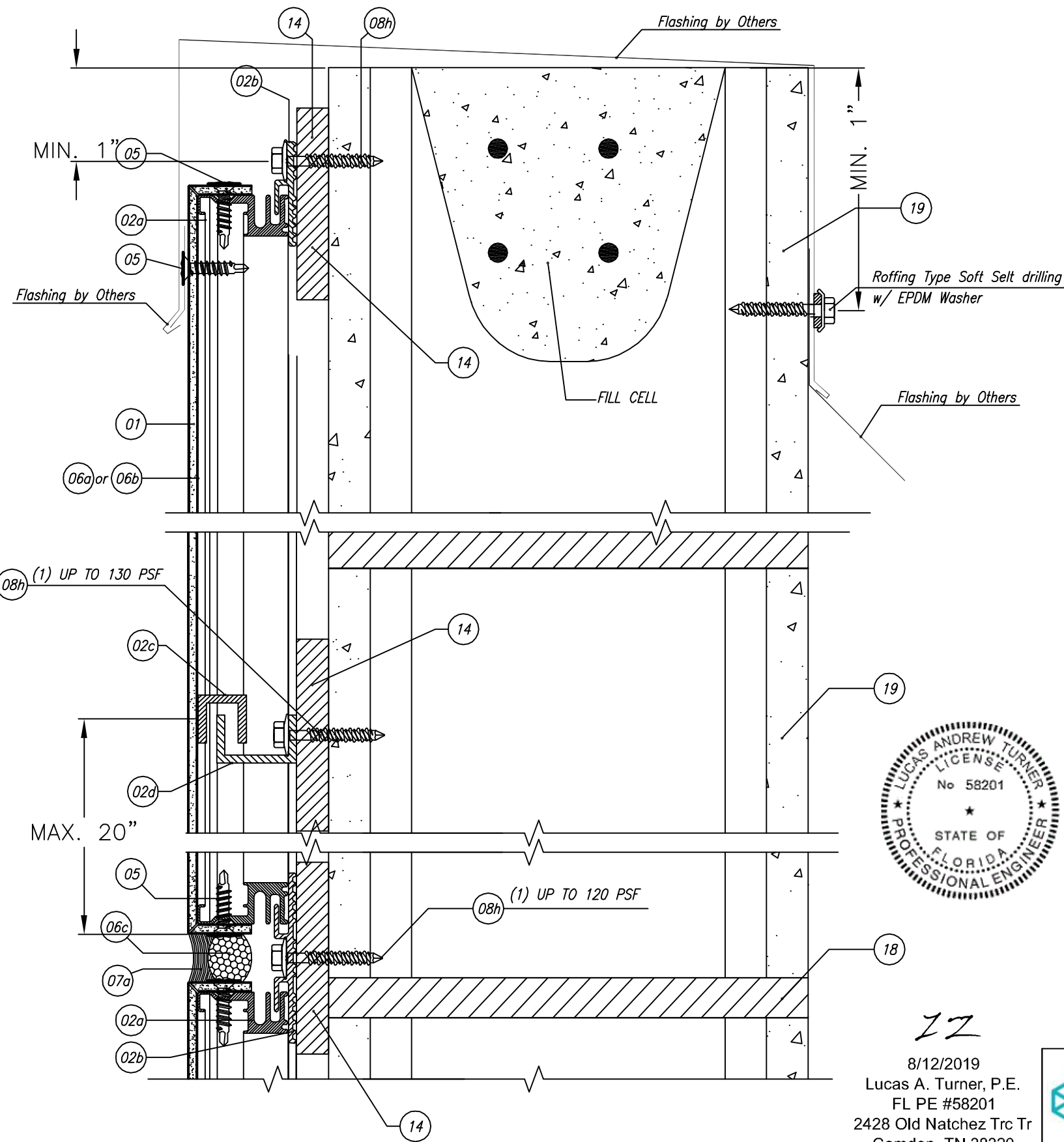
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REYNOBOND® FR/NC w/BACKER SUPPORT OVER CMU
PARAPET W/ FLASHING

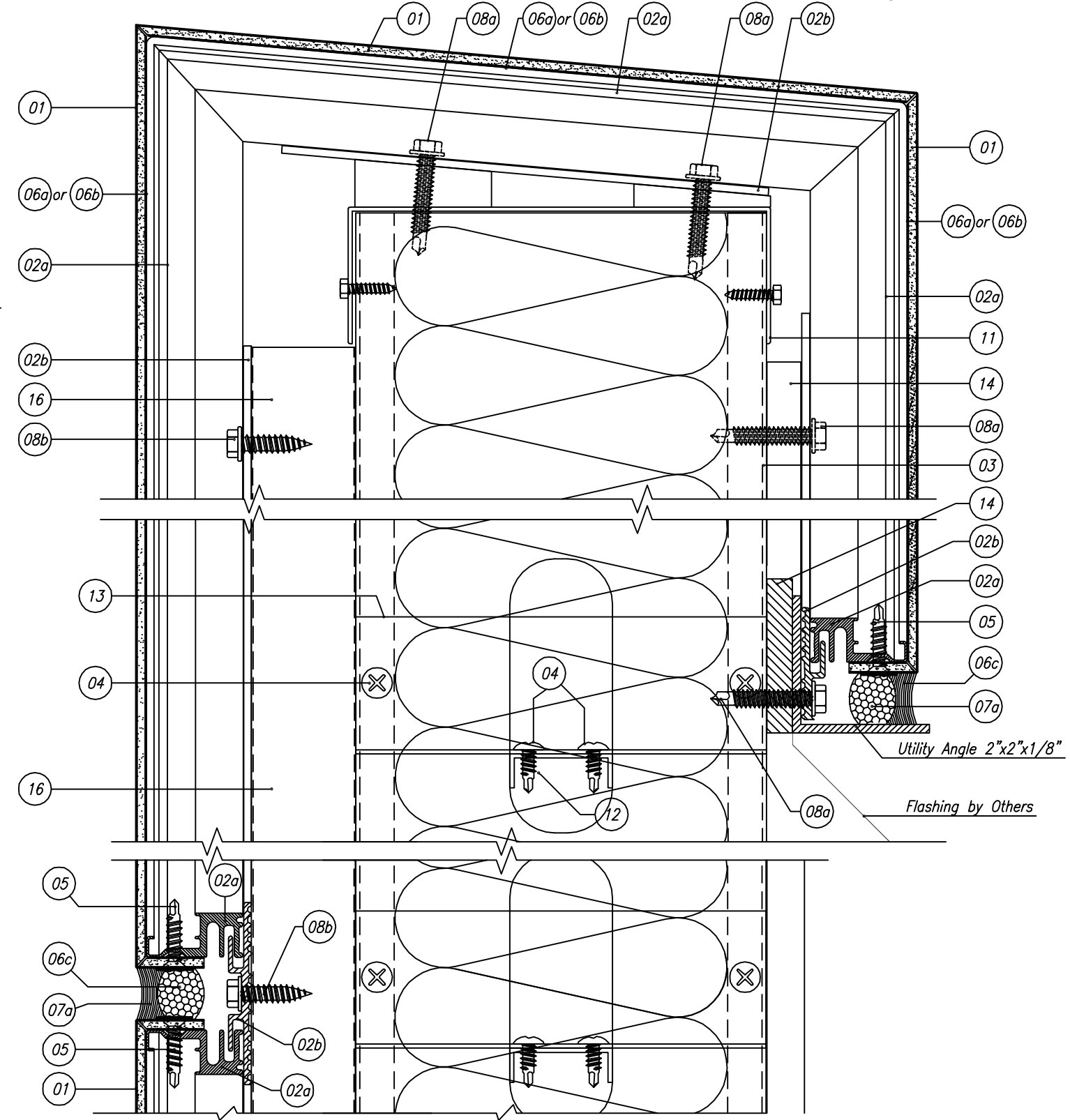
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A RIGHT / LEFT




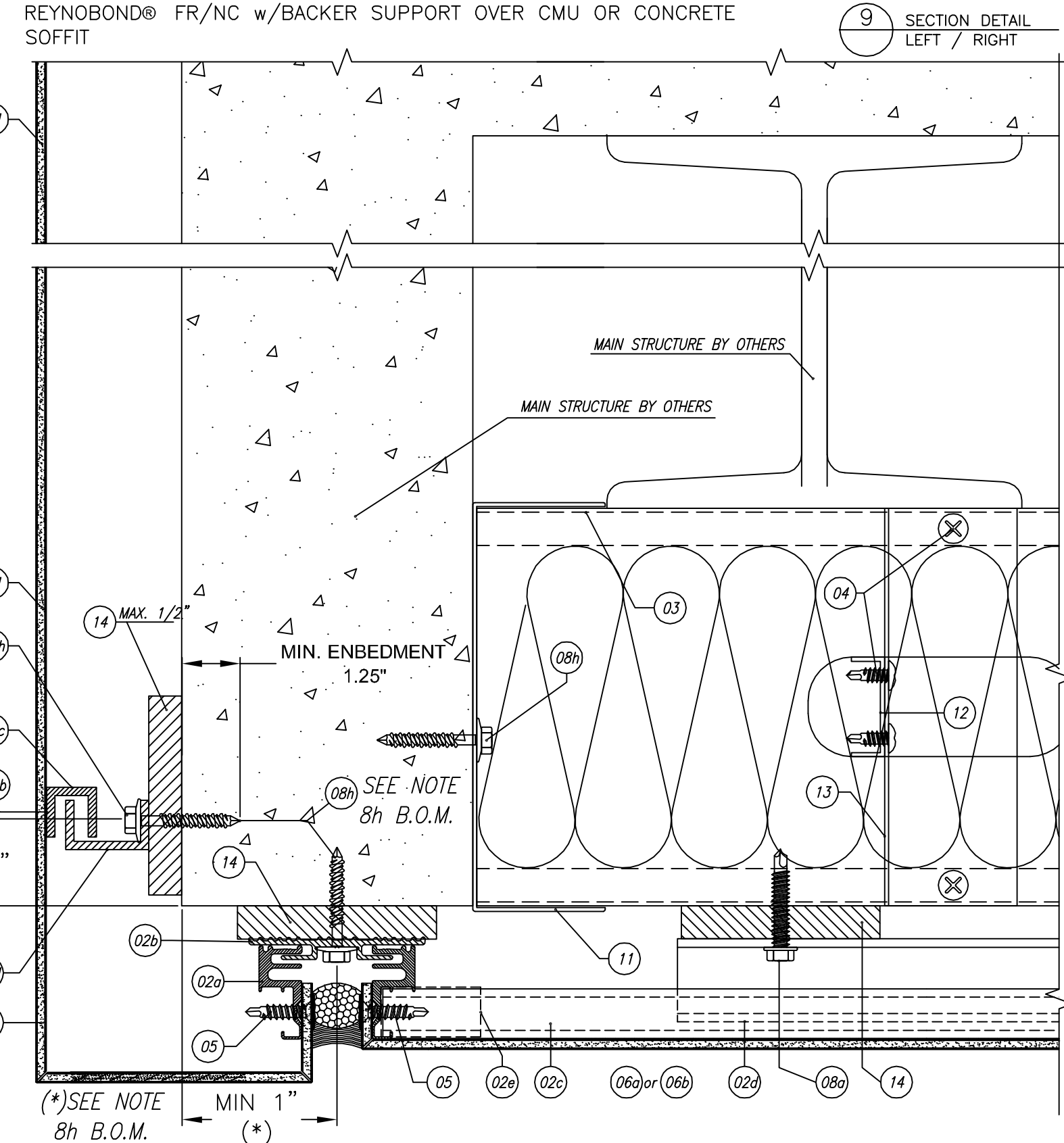
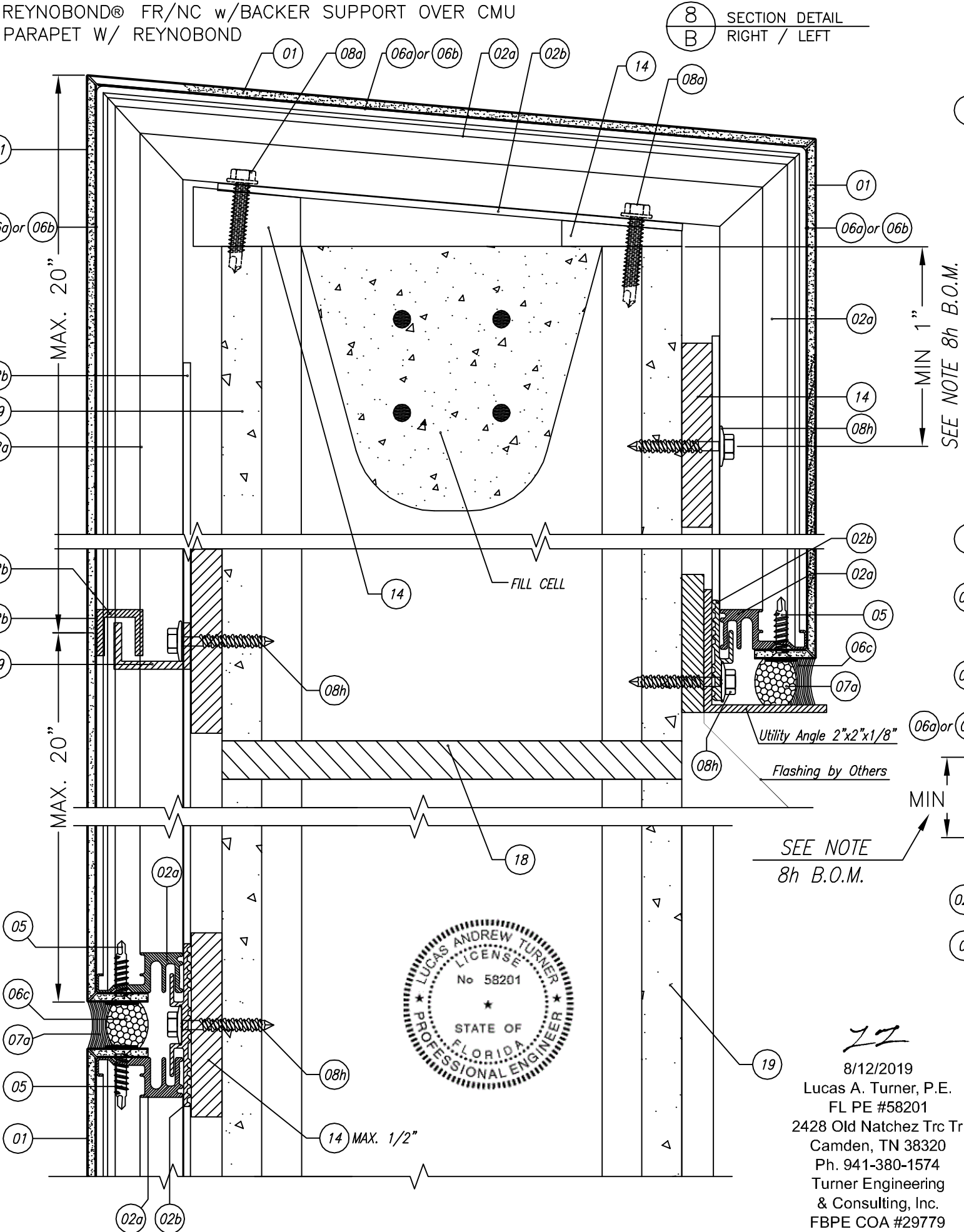
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REYNOBOND® FR/NC w/BACKER SUPPORT OVER 7.2" RIB PANEL 20ga
PARAPET W/ REYNOBOND

8 SECTION DETAIL
B RIGHT / LEFT



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		12 OF 21



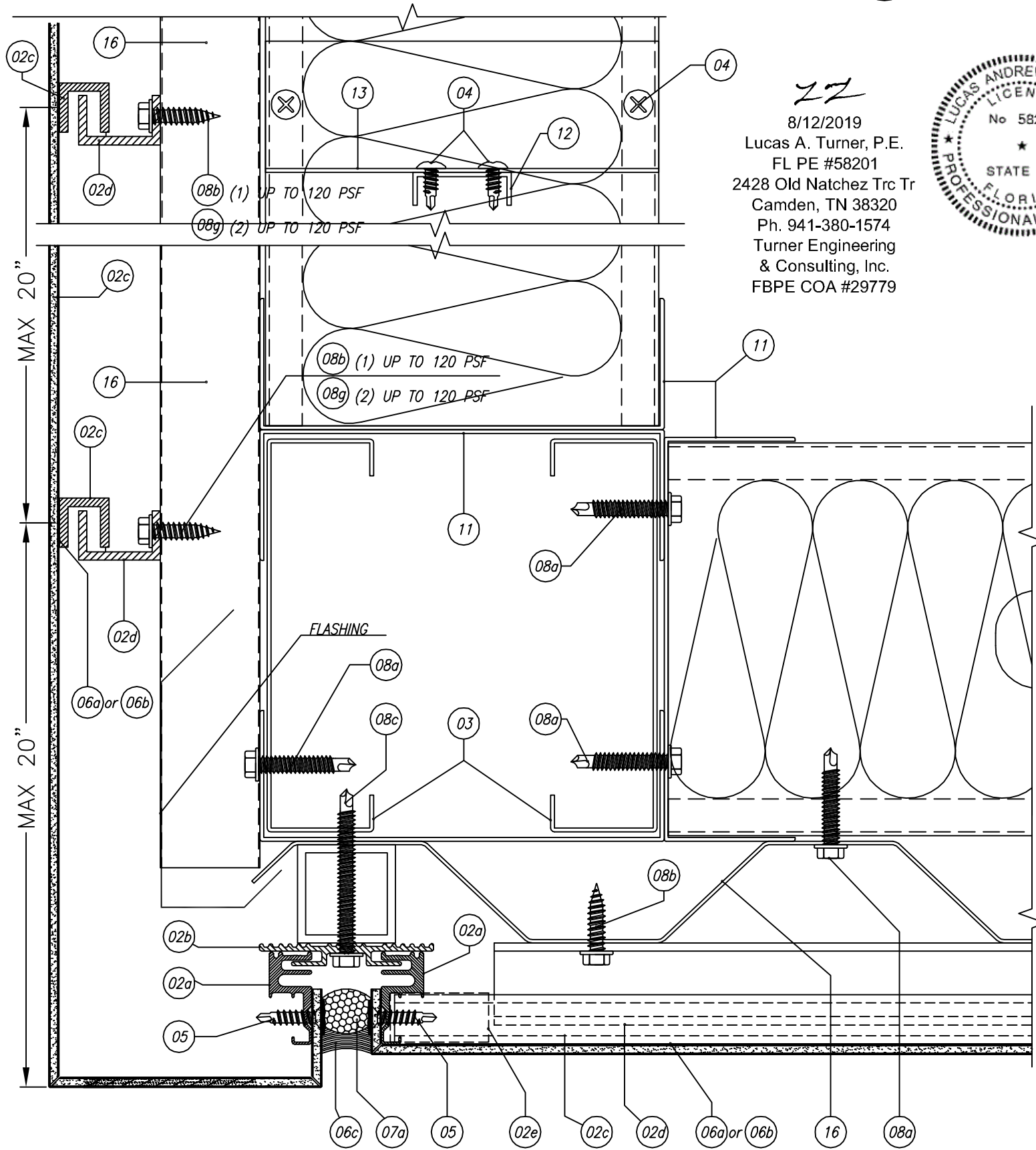
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BACKER SUPPORTS: CMU/CONCRETE
PARAPET/SOFFIT, DRY AND WET SEAL

REYNOBOND® FR/NC w/BACKER SUPPORT OVER 7.2" RIB PANEL 20ga
SOFFIT

9 SECTION DETAIL
LEFT / RIGHT

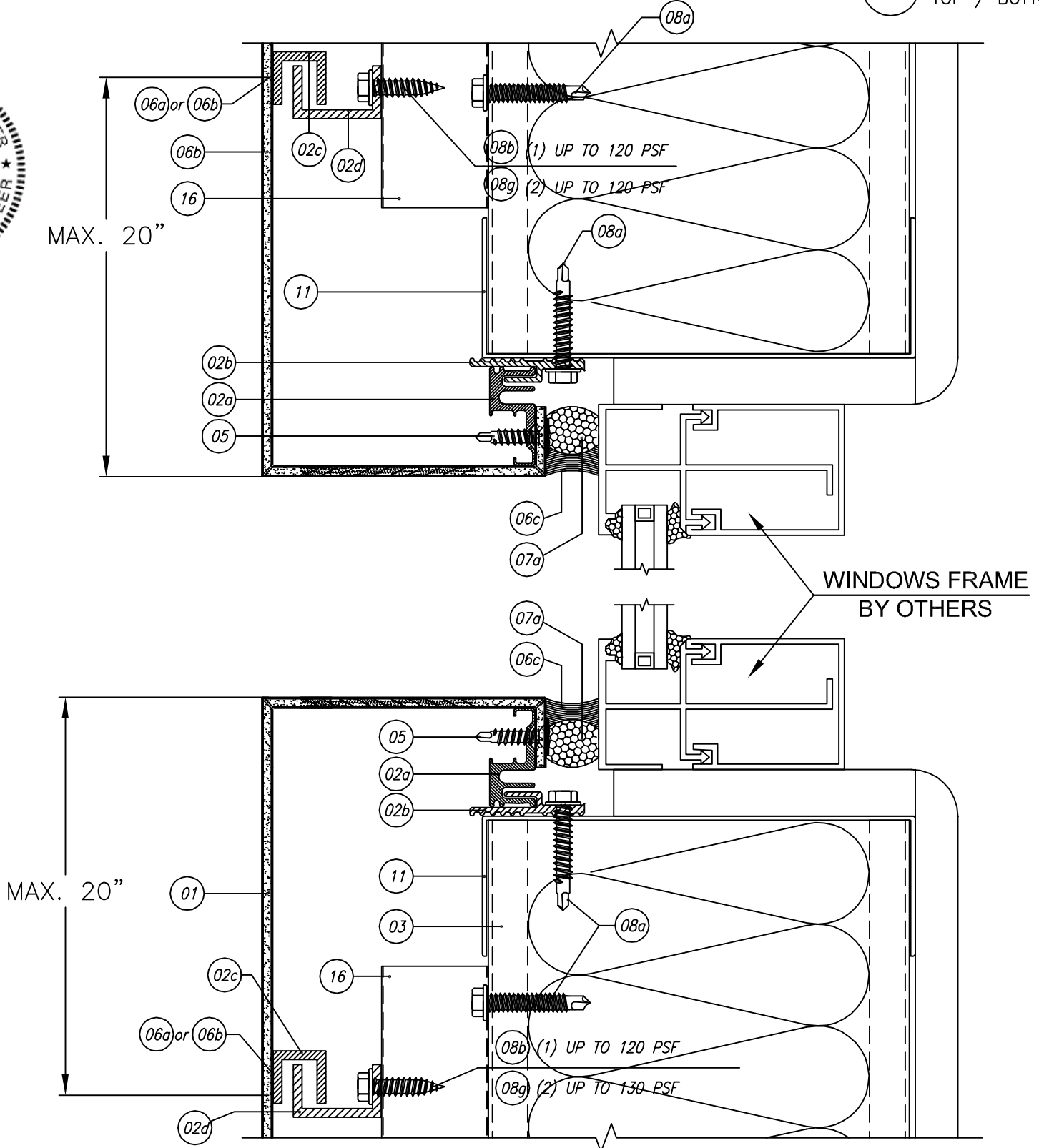



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REYNOBOND® FR/NC w/BACKER SUPPORT OVER 7.2" RIB PANEL 20ga
RECESS OPENING

10 SECTION DETAIL
TOP / BOTTOM



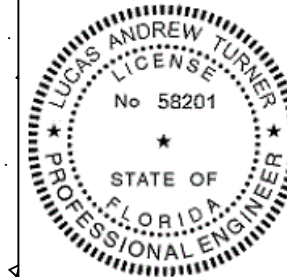
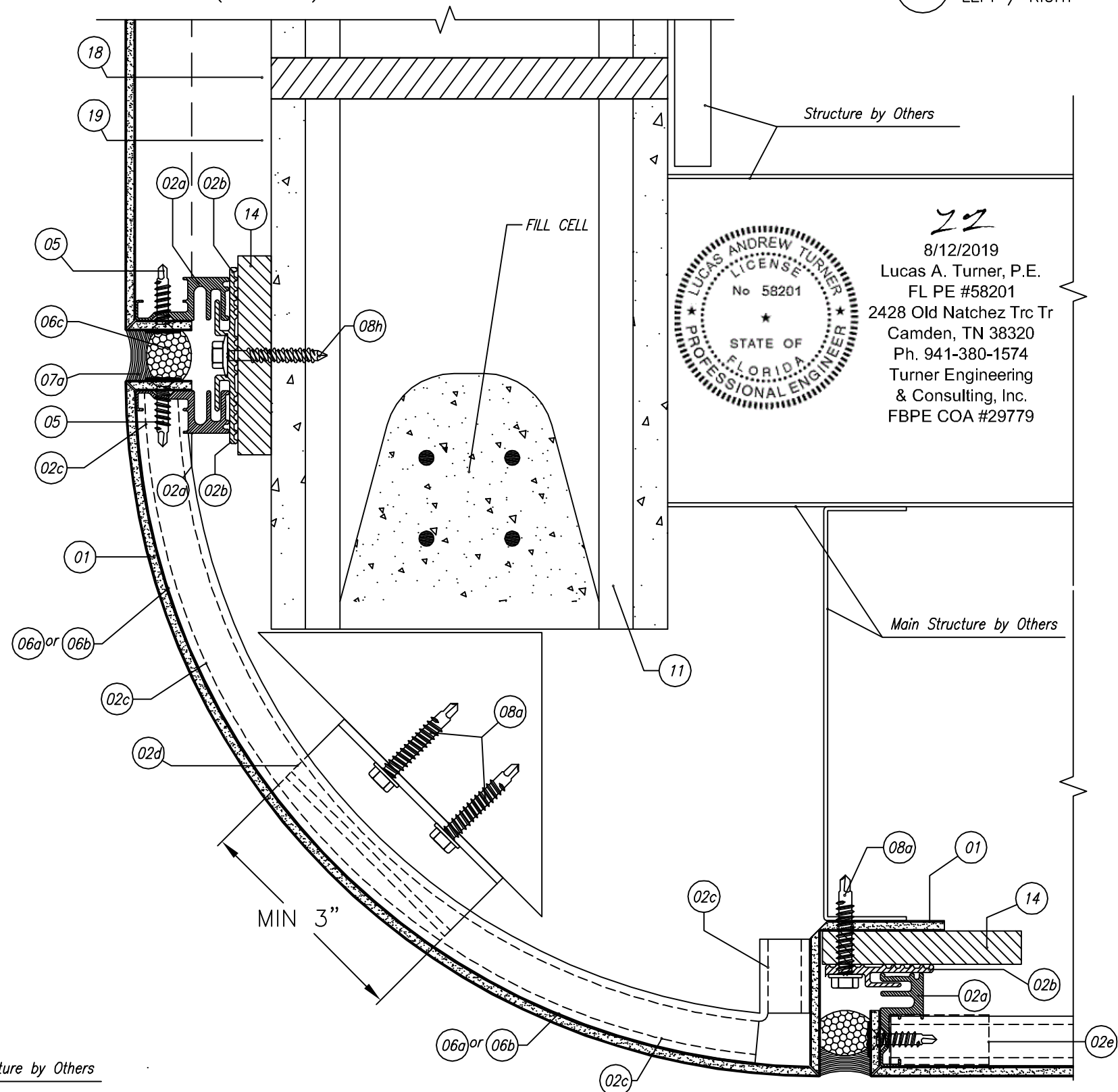
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REYNOBOND® w/ FR/NC - LARGE MISSILE IMPACT
BACKER SUPPORTS: 7.2" RIB PANEL 20ga
ALL BUILDING CONDITIONS, DRY AND WET SEAL

12 SECTION DETAIL
LEFT / RIGHT



12 SECTION DETAIL
LEFT / RIGHT



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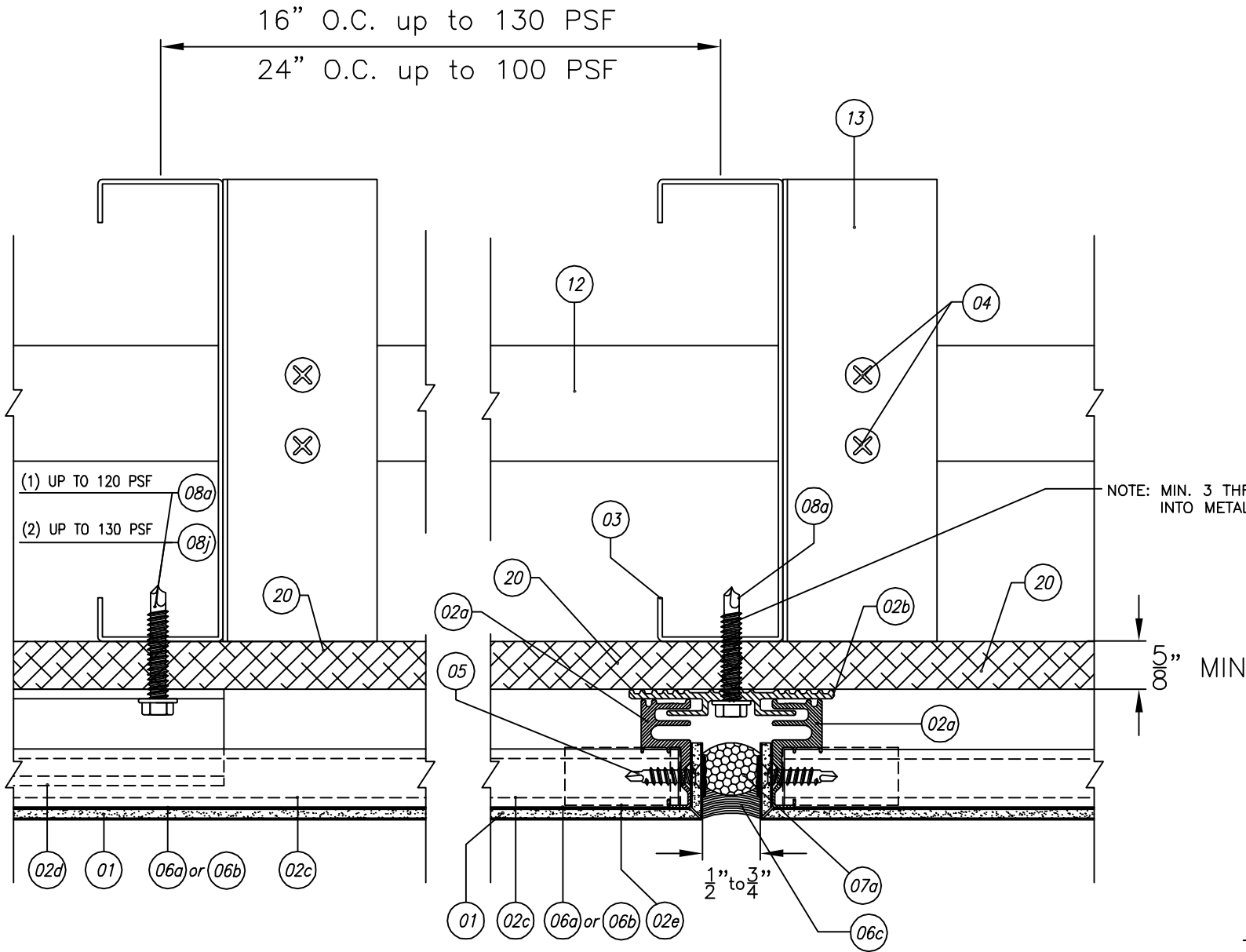
REYNOBOND® w/ FR/NC - LARGE MISSILE IMPACT
BACKER SUPPORTS: CMU/CONCRETE
CANOPY, DRY AND WET SEAL

16 OF 21

REYNOBOND® w/ FR/NC BACKER SUPPORT OVER
PLYWOOD 5/8"
VERTICAL JOINT – 1/2" to 3/4" WET
NOTE: ALL JOINTS APPLY TO ANY BUILDING CONDITION



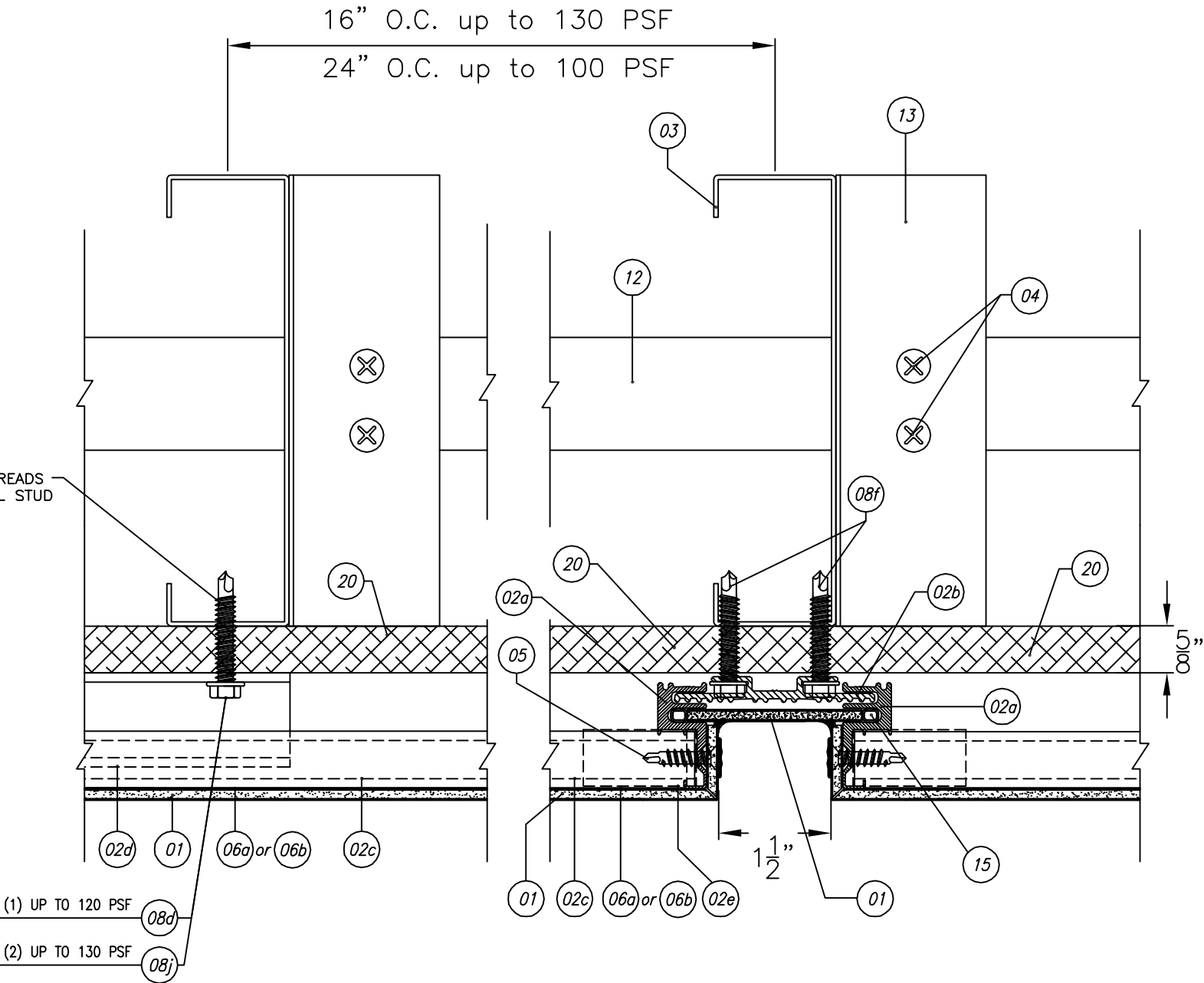
SECTION DETAIL
TOP / BOTTOM



REYNOBOND® w/ FR/NC BACKER SUPPORT OVER
PLYWOOD 5/8"
VERTICAL JOINT – 1-1/2" DRY
NOTE: ALL JOINTS APPLY TO ANY BUILDING CONDITION



SECTION DETAIL
RIGHT / LEFT



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ALL BUILDING CONDITIONS, DRY AND WET SEAL

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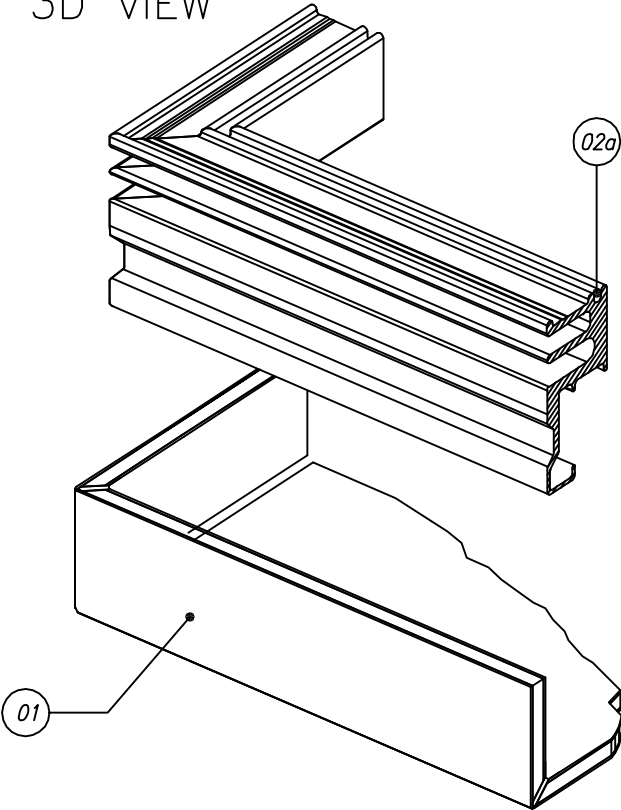
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17 OF 21

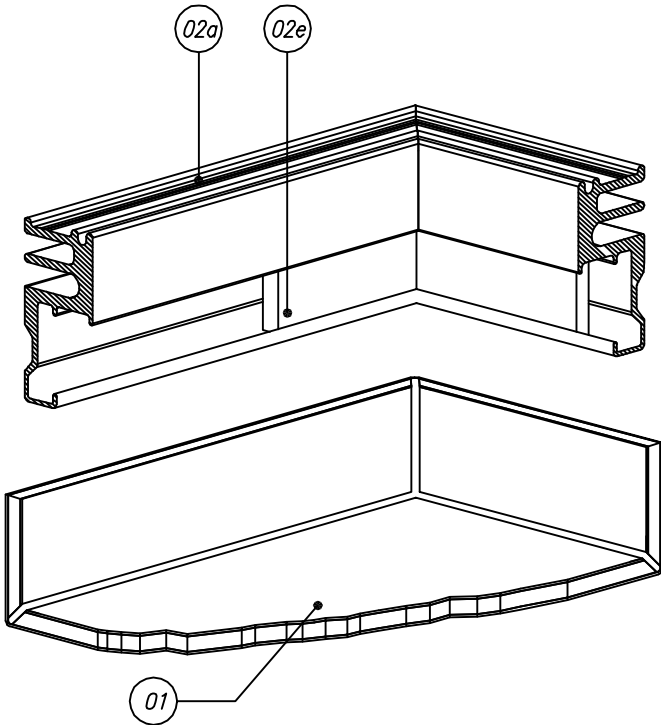
REYNOBOND® FR/NC w/BACKER SUPPORTS: CMU, 7.2" RIB PANEL 20ga, 5/8" PLYWOOD.
3D VIEW AND SECTIONS – CORNER (ONLY WET SEAL)

REYNOBOND® FR/NC w/BACKER SUPPORTS: CMU, 7.2" RIB PANEL 20ga, 5/8" PLYWOOD.
3D VIEW AND SECTIONS – CORNER (ONLY DRY SEAL)

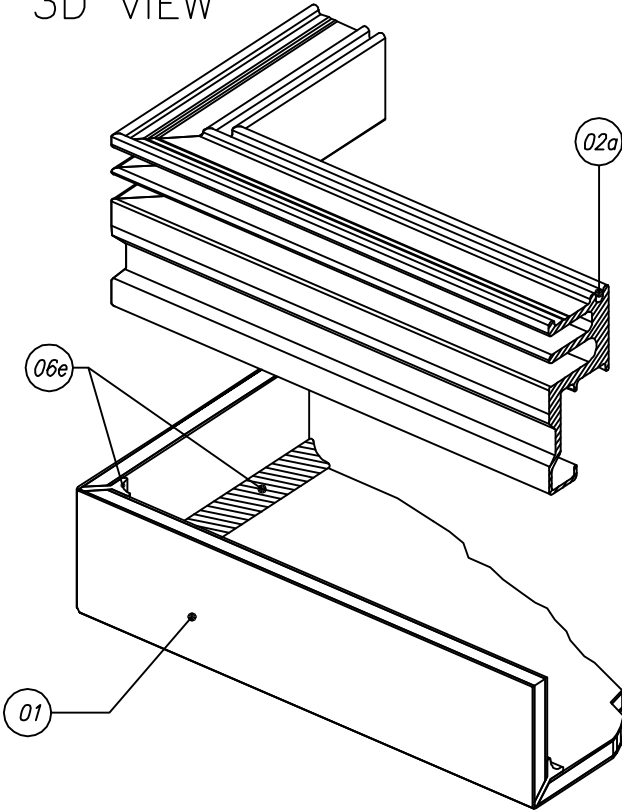
3D VIEW



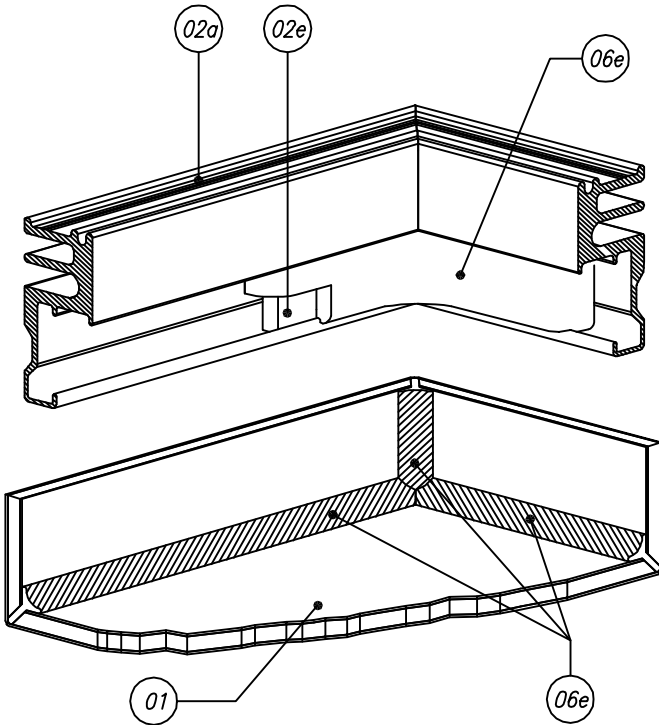
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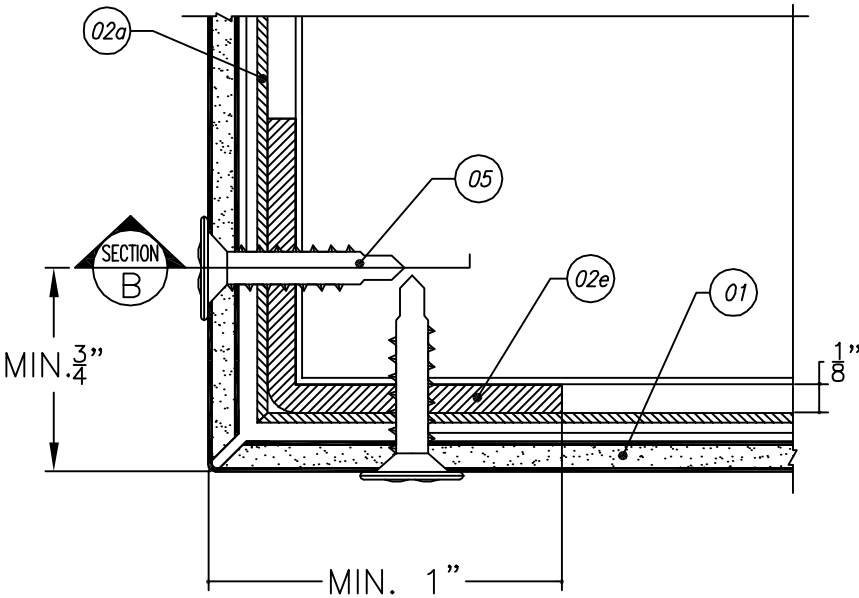
3D VIEW



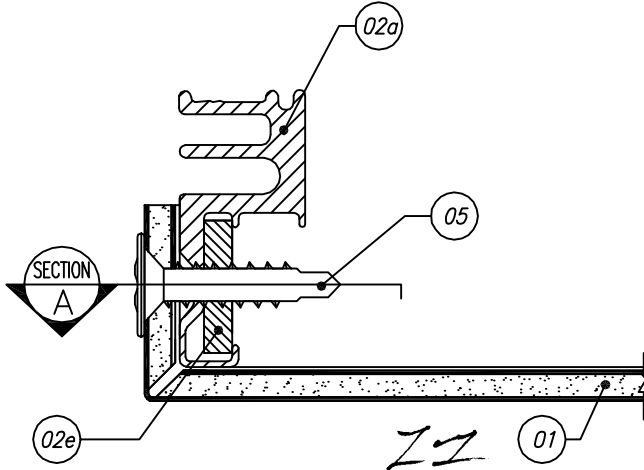
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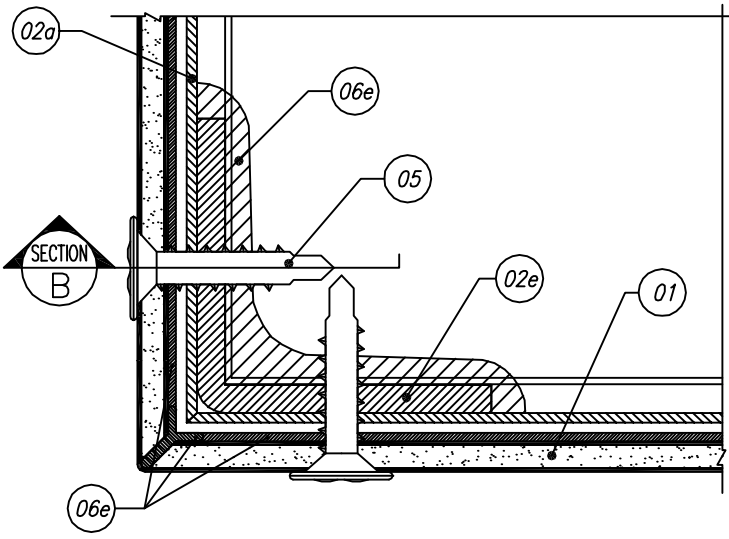
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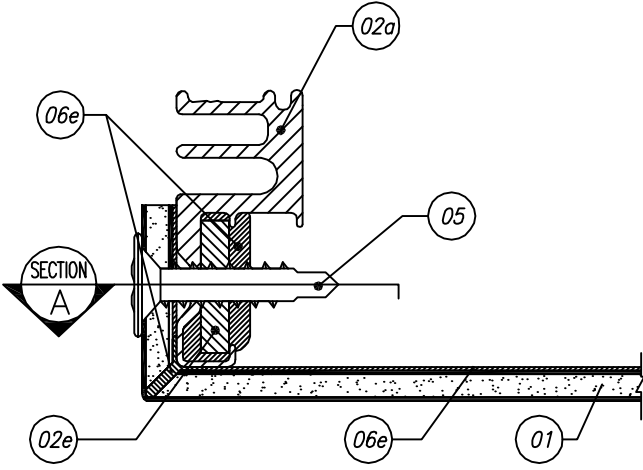
SECTION B



SECTION A



SECTION B



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BACKER SUPPORTS: CMU, 7.2" RIB PANEL 20ga, PLYWOOD 5/8"
3D VIEW, SECTIONS, CORNER FRAME, DRY & WET SEAL

DATE: 08/12/19

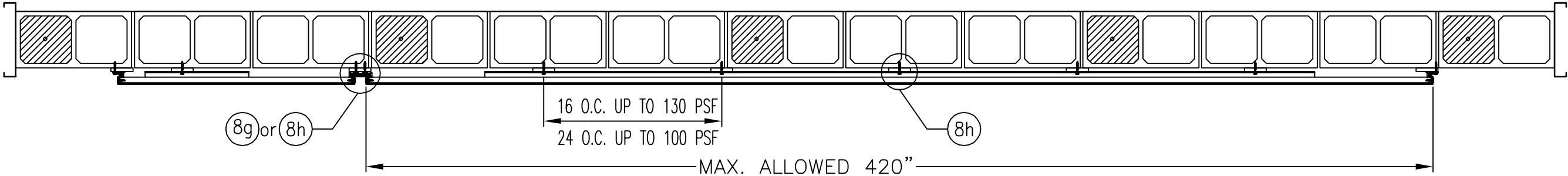
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18 OF 21

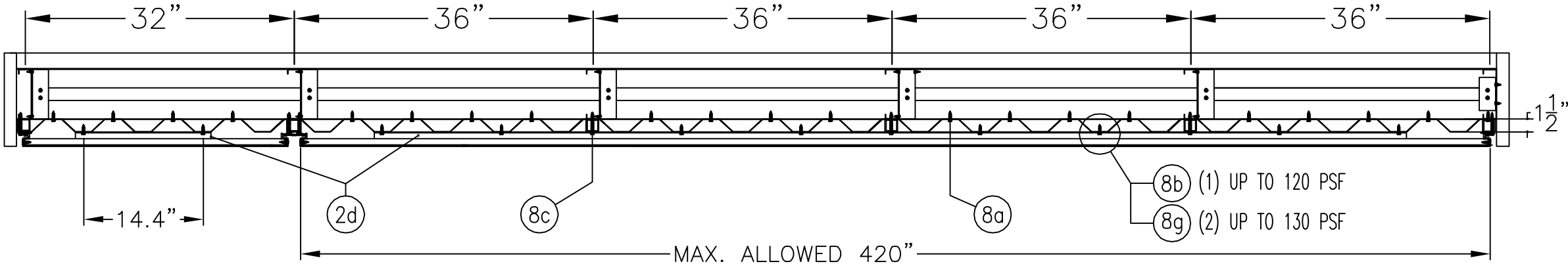
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7.2" RIB PANEL 20ga, PLYWOOD 5/8".

HORIZONTAL SECTION

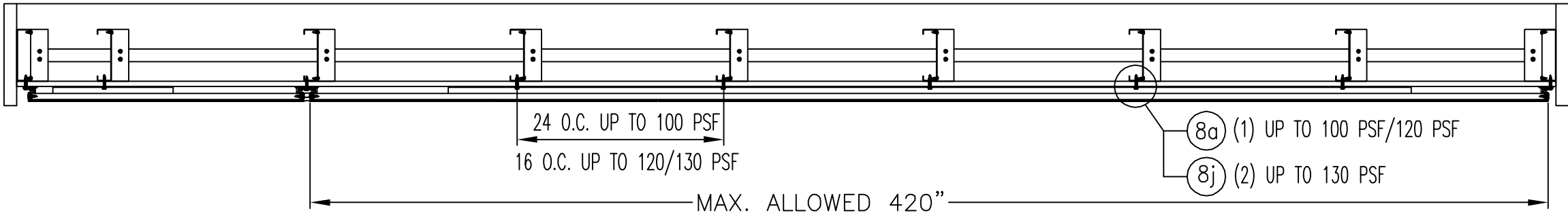
A REYNOBOND® FR/NC w/BACKER SUPPORT OVER CMU or CONCRETE



B REYNOBOND® FR/NC w/BACKER SUPPORT OVER 7.2" RIB PANEL 20ga



C REYNOBOND® FR/NC w/BACKER SUPPORT OVER METAL STUD/ 5/8"PLYWOOD, OR REYNOBOND® NC OVER 5/8" GYPSUM



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BACKER SUPPORTS: CMU, 7.2" RIB PANEL 20ga, PLYWOOD 5/8"
ALL BUILDING CONDITIONS, DRY AND WET SEAL

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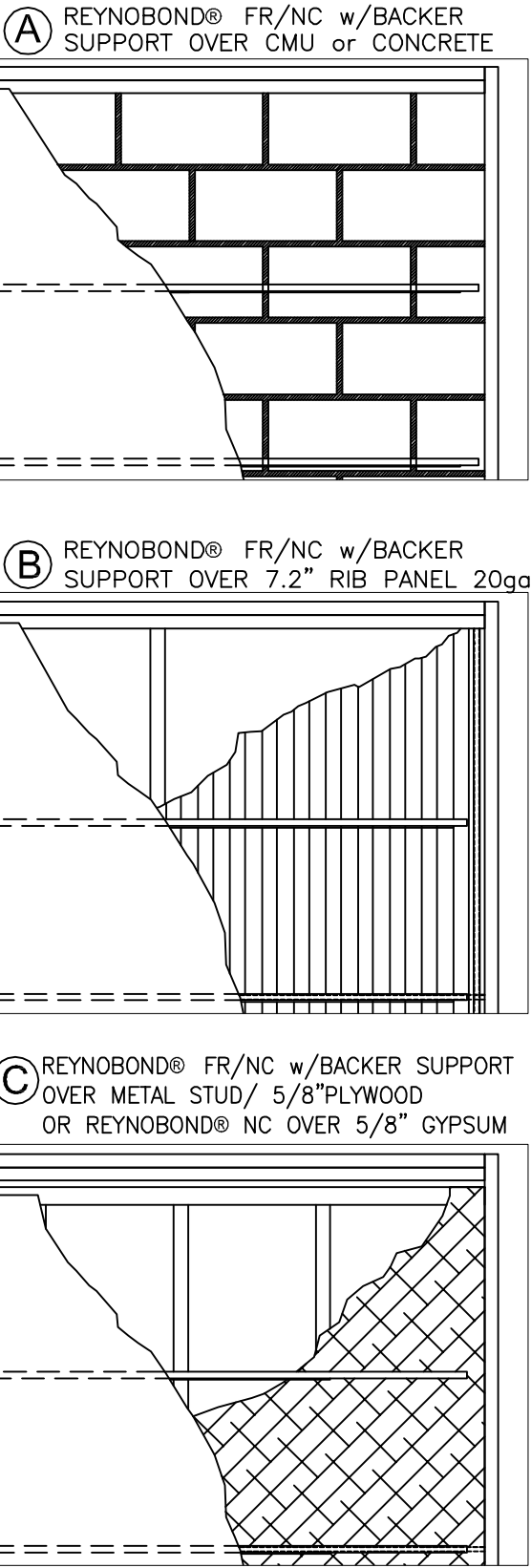
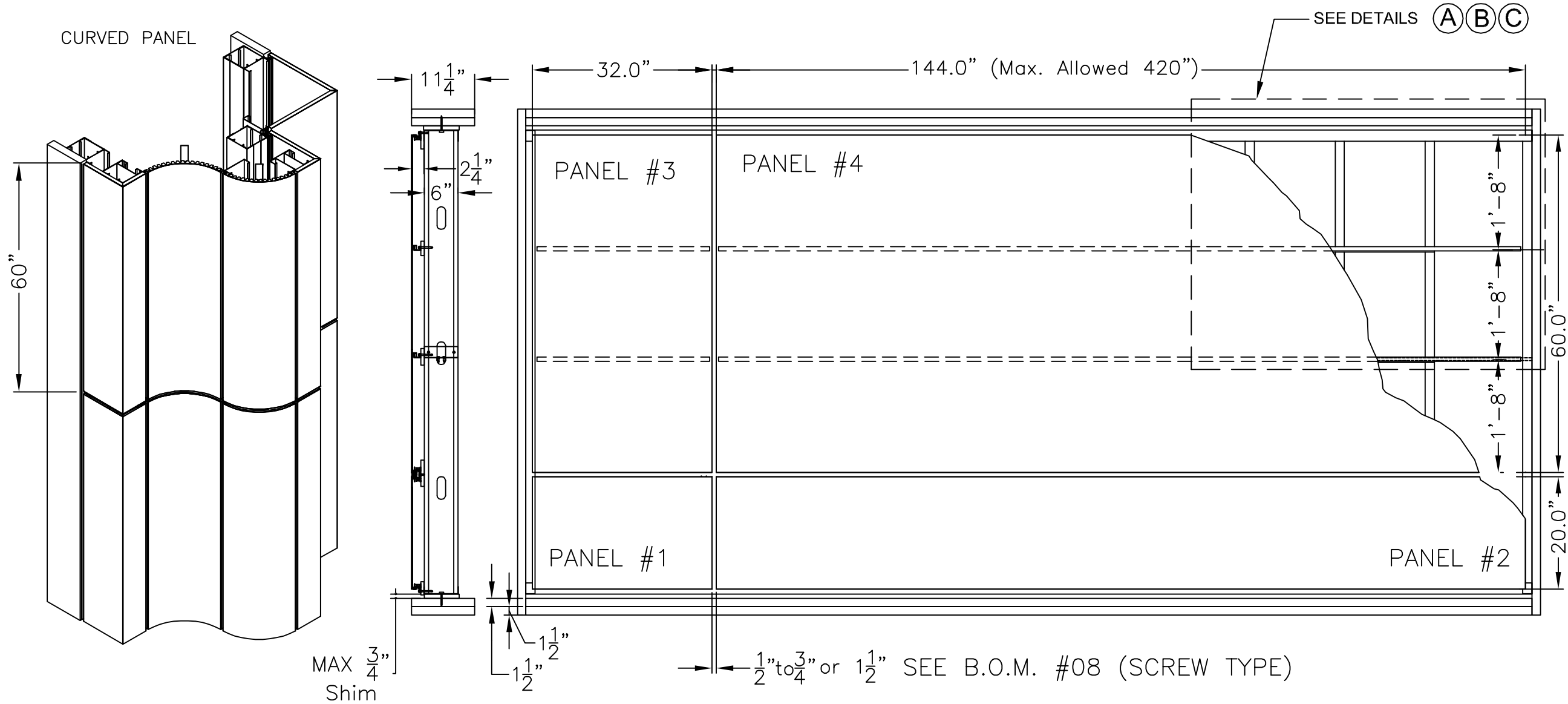
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19 OF 21

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PANEL ELEVATION



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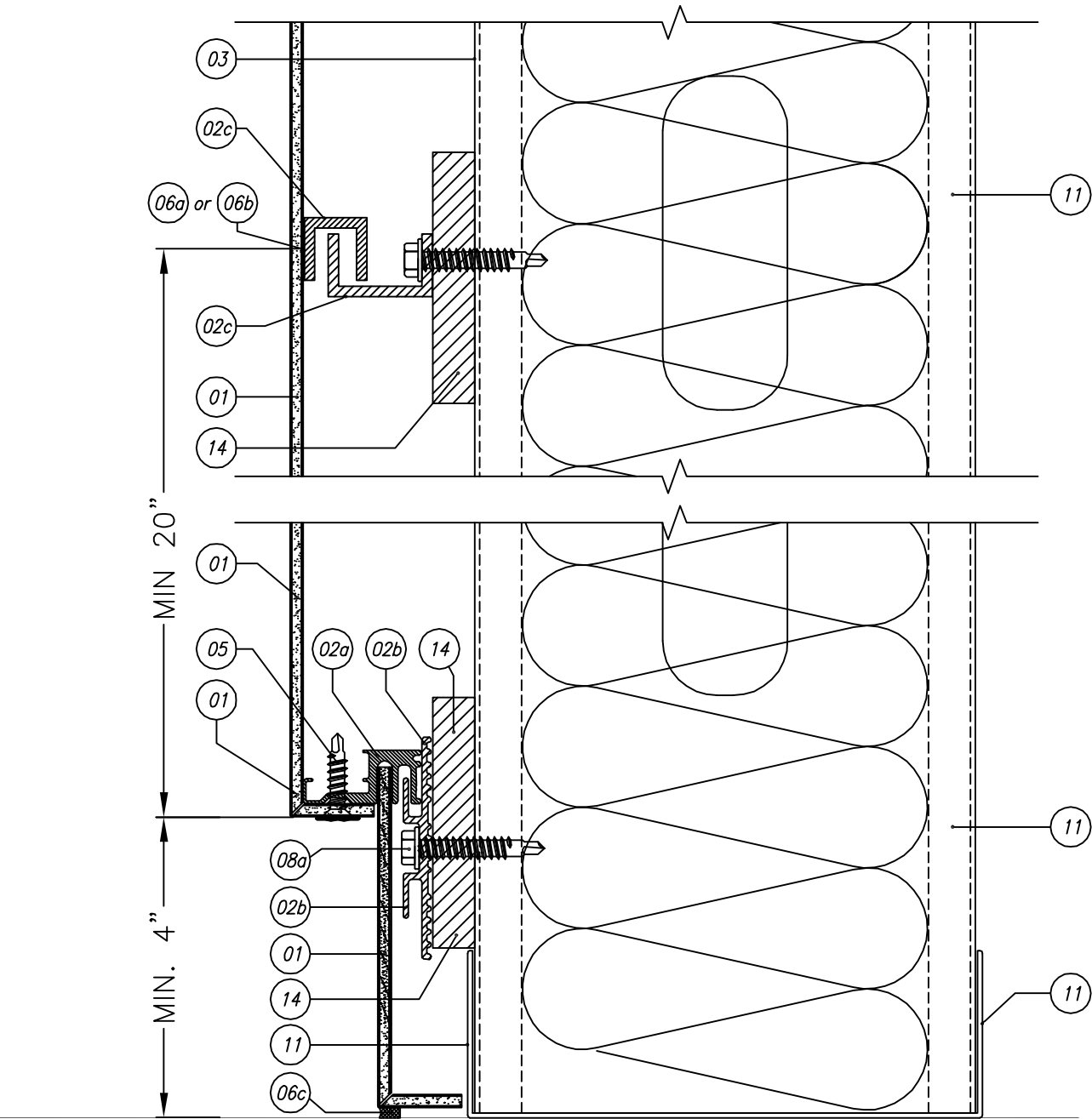
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DATE: 08/12/19

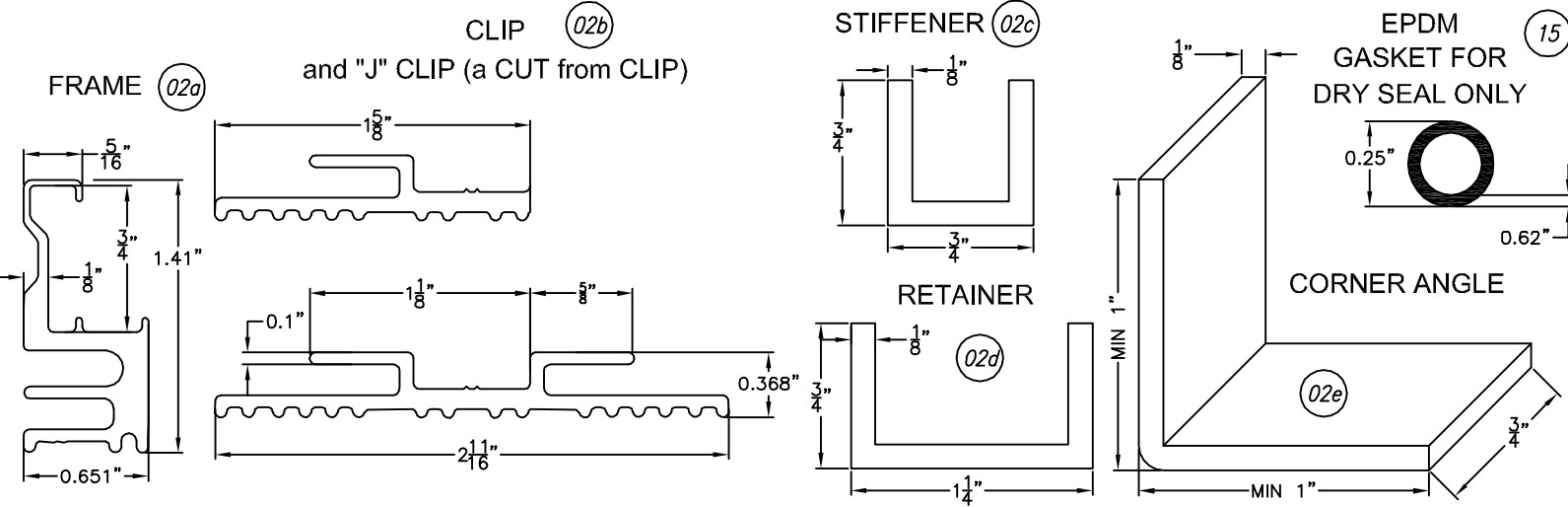
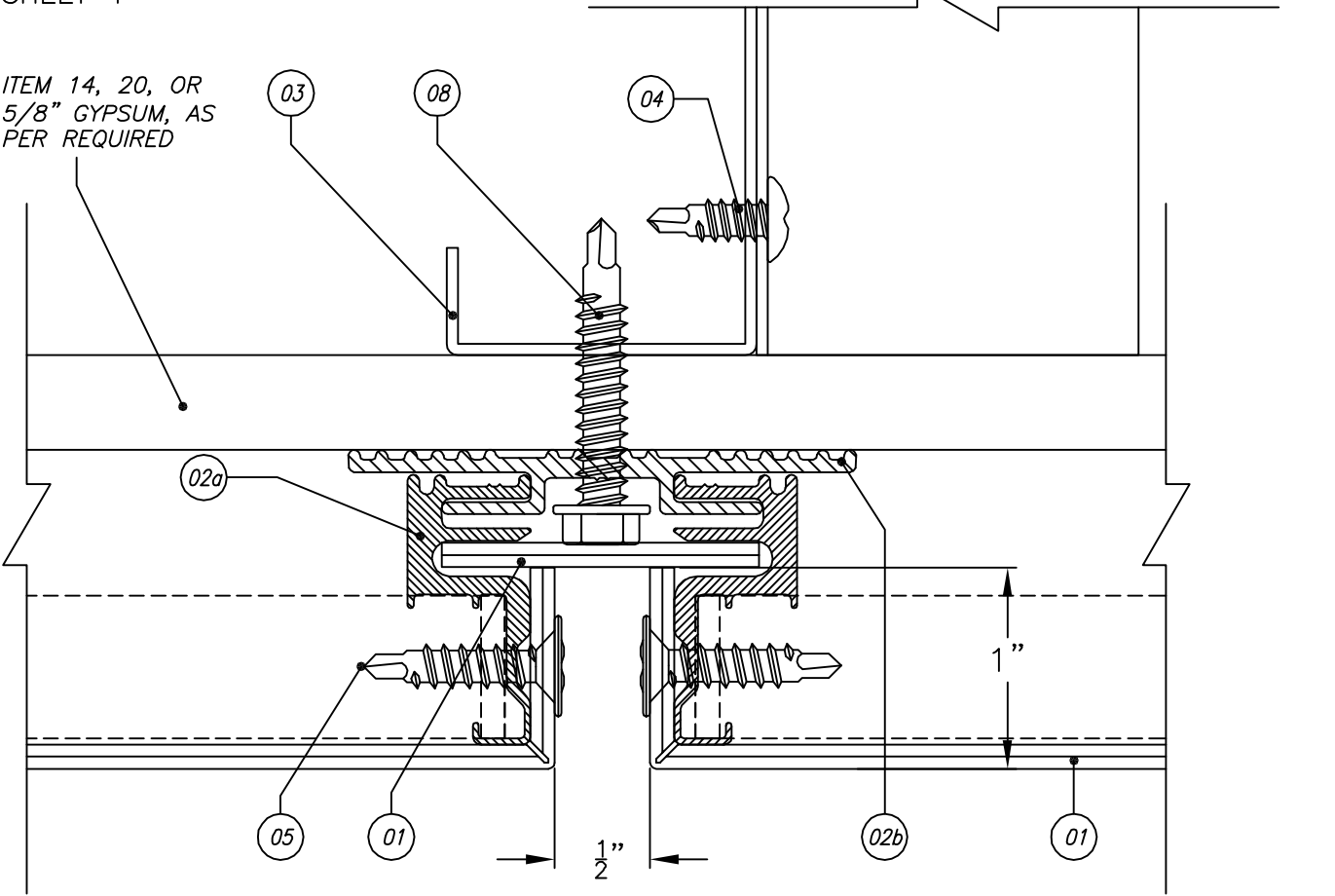
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20 OF 21


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PANEL TERMINATION



REYNOBOND® FR/NC (NC SHOWN) OPTIONAL RAIN SCREEN JOINT, APPLIES TO ANY BUILDING CONDITION AND MAY BE USED FOR VERTICAL OR HORIZONTAL JOINTS, SEE NOTE 6.f, SHEET 1



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