



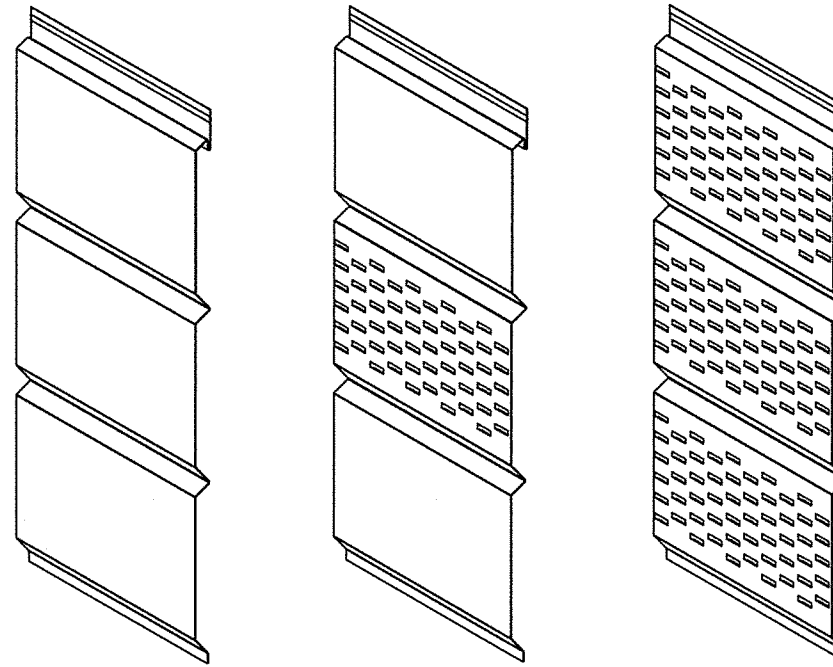
AMERICAN CONSTRUCTION METALS

6938 N US Highway 41, Apollo Beach, FL 33572

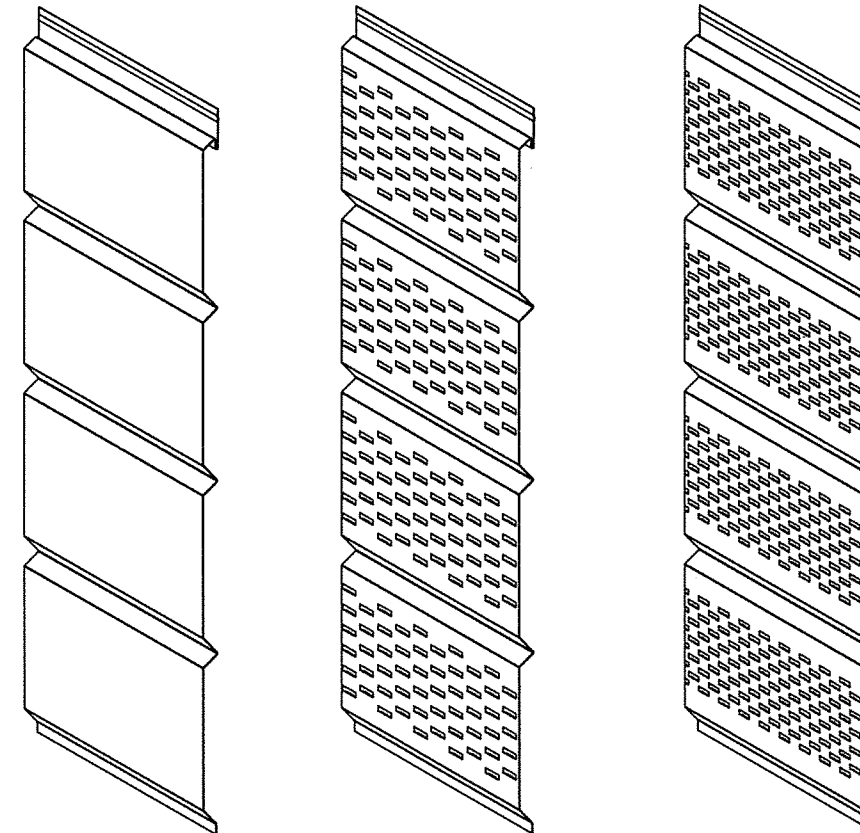
# "TRIPLE 4" & "QUAD 4" ALUMINUM "V - GROOVE" SOFFIT

### GENERAL NOTES

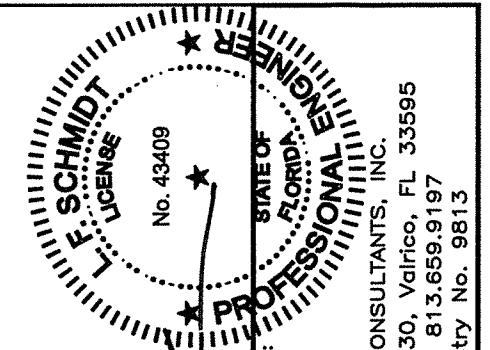
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. Site conditions not covered by this drawing are subject to further engineering analysis.
4. Wood/CMU wall construction, by others, must be designed properly to receive loads from the soffit and/or 2" x 2" batten strips.
5. Aluminum soffits shall conform to the specification and labelling requirements of FBC Section 1709.10.



**TRIPLE 4 (T4)**  
T-4-012 (.0115" THICK)  
T-4-014 (.0135" THICK)



**QUAD 4 (Q4)**  
Q-4-012 (.0115" THICK)  
Q-4-014 (.0135" THICK)



Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409  
10.6.20  
R.W.  
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

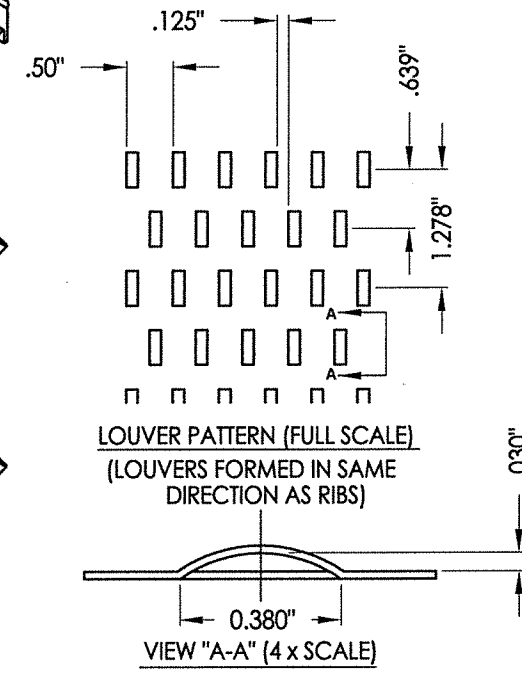
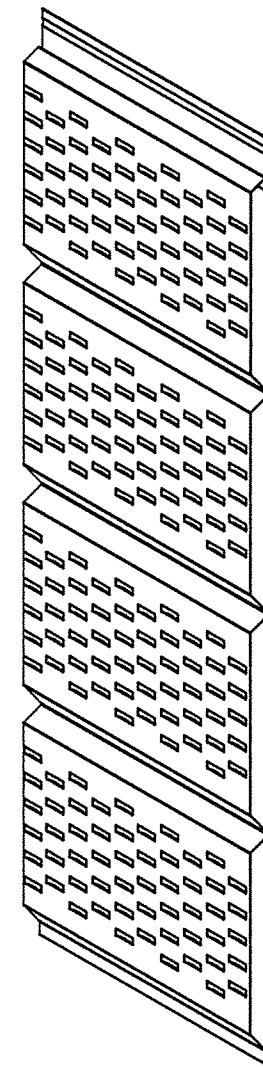
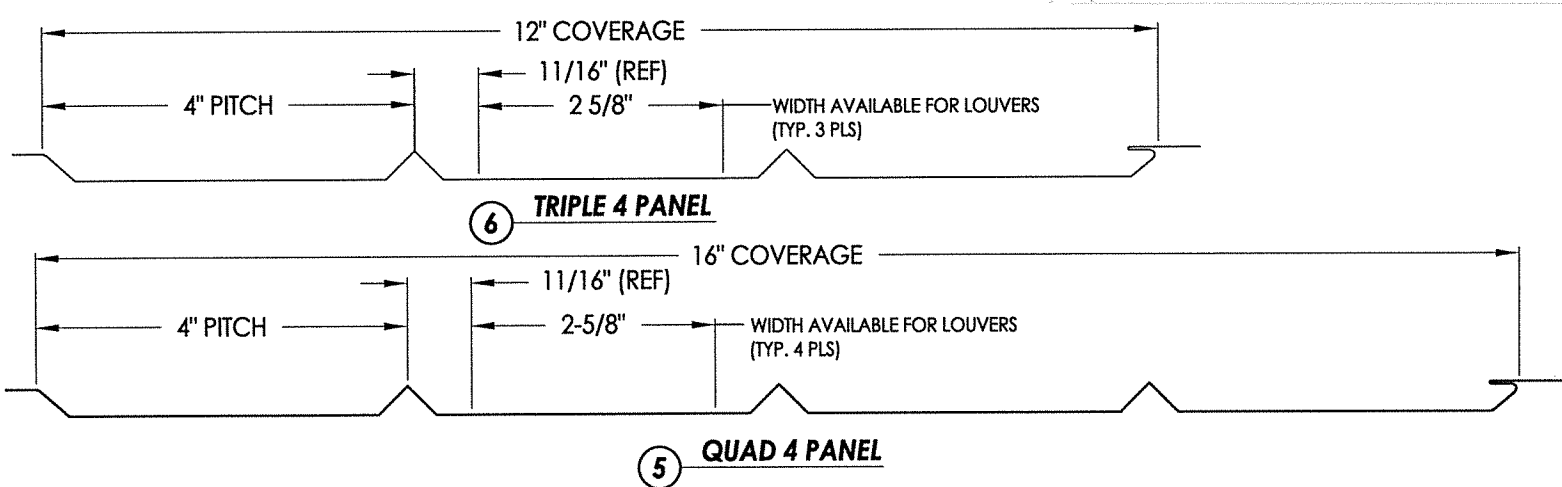
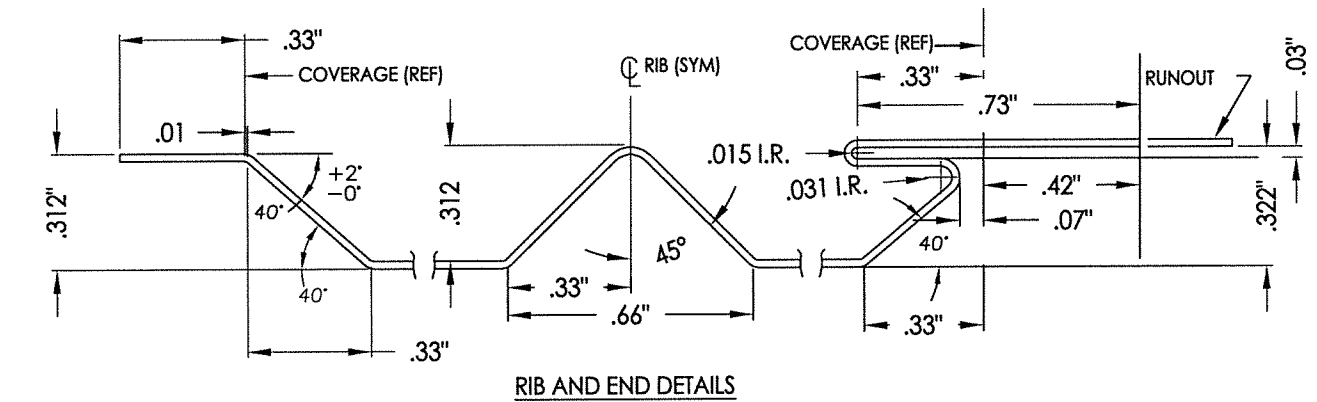
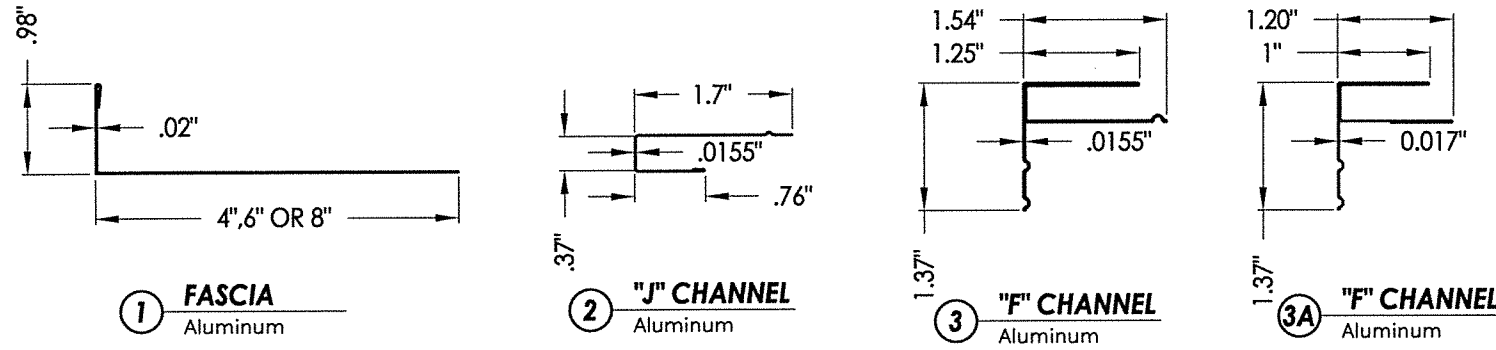
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations & general notes
2	Panel details
3	Soffit details & design pressures
4	Soffit details & design pressures
5	Soffit details, design pressures & bill of materials

PRODUCT:		ALUMINUM SOFFIT	
PART OR ASSEMBLY:		TYPICAL ELEVATIONS & GENERAL NOTES	
7	10/01/20	UPDATE TO 7TH ED. (2020) FBC	LFS
6	03/19/20	ADD ALTERNATE "F" CHANNEL	LFS
5	01/01/09	UPDATE TO 6TH ED. (2017) FBC	LFS
4	03/02/15	UPDATE TO 5TH ED. (2014) FBC	JK
3	12/13/11	UPDATE FOR 2010 FBC	LFS
	NO. DATE		BY
REVISIONS			
DATE: 01/01/09			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-12019.1			
SHEET 1 OF 5			

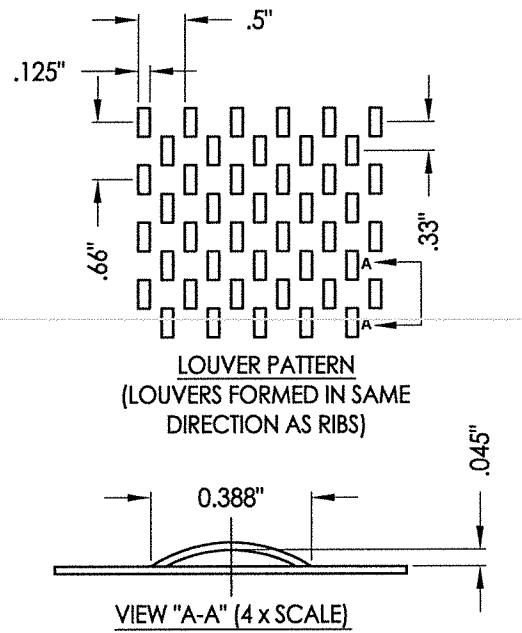
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SOFFIT AIR FLOW TABLE									
SOFFIT TYPE		AIR FLOW			SOFFIT TYPE		AIR FLOW		
		FREE FLOW AREA (in <sup>2</sup> /ft <sup>2</sup> )	FREE FLOW AREA (in <sup>2</sup> /linear ft)	% FREE FLOW AREA			FREE FLOW AREA (in <sup>2</sup> /ft <sup>2</sup> )	FREE FLOW AREA (in <sup>2</sup> /linear ft)	% FREE FLOW AREA
TRIPLE 4	CENTER VENT NARROW PATTERN	3.91	3.91*	2.71 %	QUAD 4	FULL VENT NARROW PATTERN	11.74	15.61*	8.15 %
	FULL VENT NARROW PATTERN	11.74	11.74*	8.15 %		FULL VENT WIDE PATTERN	3.69	4.91*	2.56 %
	FULL VENT WIDE PATTERN	3.69	3.69*	2.56 %					

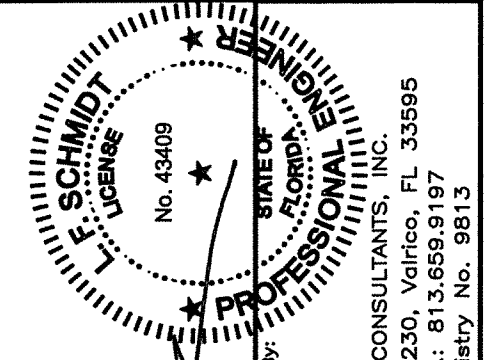
\* FREE FLOW AREA IS PER LINEAR FOOT OF OVERHANG (SPAN "A" ON SHEETS 3, 4 & 5) PER PANEL (12" TRIPLE 4 PANEL OR 16" QUAD 4 PANEL)



5 6 FULL VENT - WIDE PATTERN (Louvers formed in same direction as ribs)



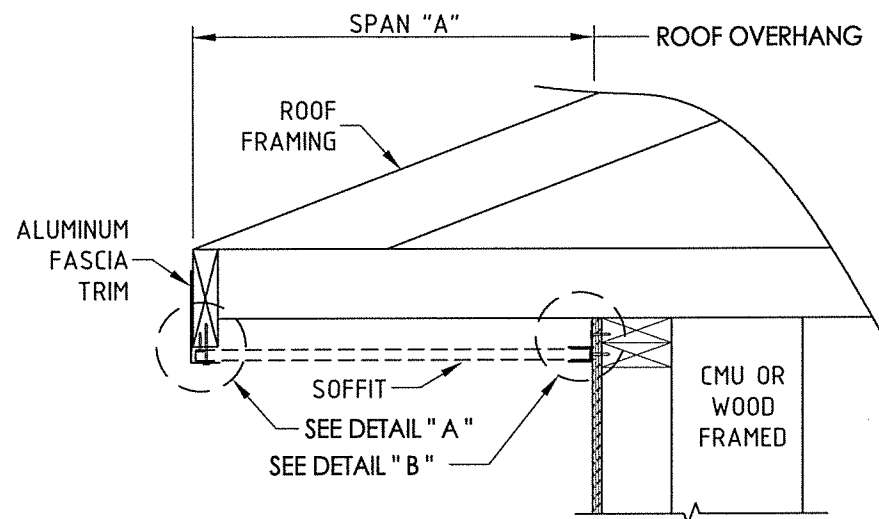
5 6 FULL VENT - NARROW VENT PATTERN (Louvers formed in same direction as ribs)



Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409  
R.W. BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

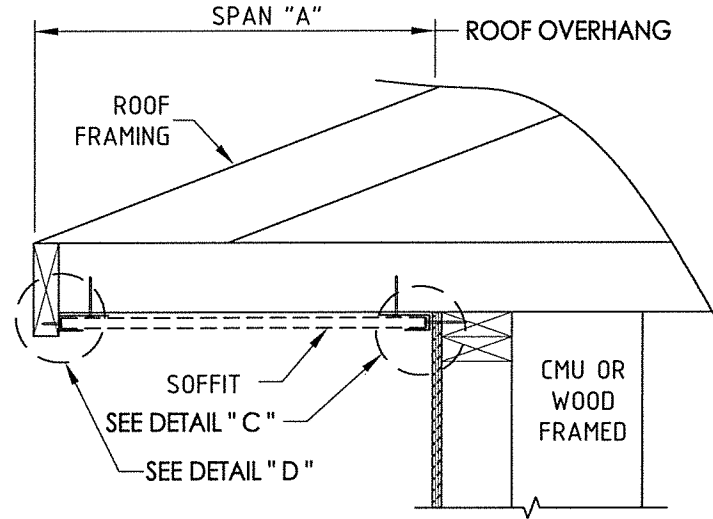
PRODUCT:	ALUMINUM SOFFIT
PART OR ASSEMBLY:	PANEL DETAILS
REVISIONS	
NO.	DATE
7	10/01/20
6	03/19/20
5	01/01/09
4	03/02/15
3	12/13/11
DATE:	01/01/09
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-12019.1
SHEET	2 OF 5

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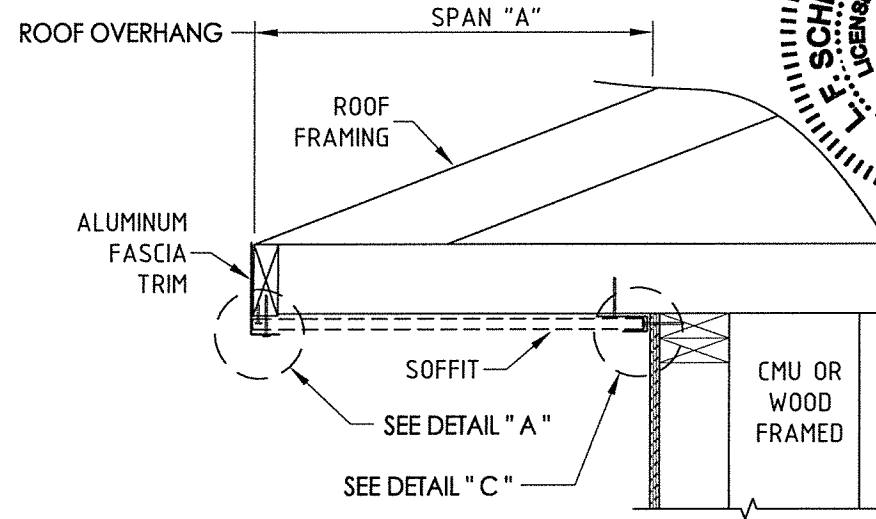
**SIDE VIEW - SINGLE SPAN w/F-CHANNEL**

(Shown w/ truss/framing cantilever)



**SIDE VIEW - SINGLE SPAN w/J-CHANNELS**

(Shown w/ truss/framing cantilever)



**SIDE VIEW - SINGLE SPAN w/J-CHANNEL**

(Shown w/ truss/framing cantilever)

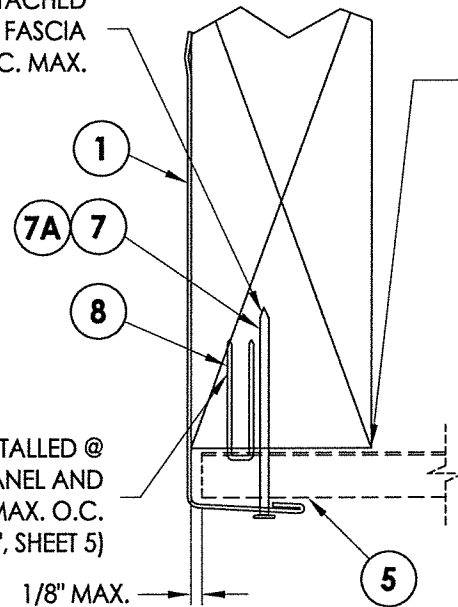
SINGLE SPAN LENGTH "A"	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
8"	+70.0	-141.0
10"	+60.0	-60.0
12"	+50.0	-50.0
14"	+38.5	-38.5
16"	+30.0	-30.0

NOTE: WOOD FRAMING AND CONNECTIONS TO BE DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD

NAIL ATTACHED THROUGH FASCIA @ 16" O.C. MAX.

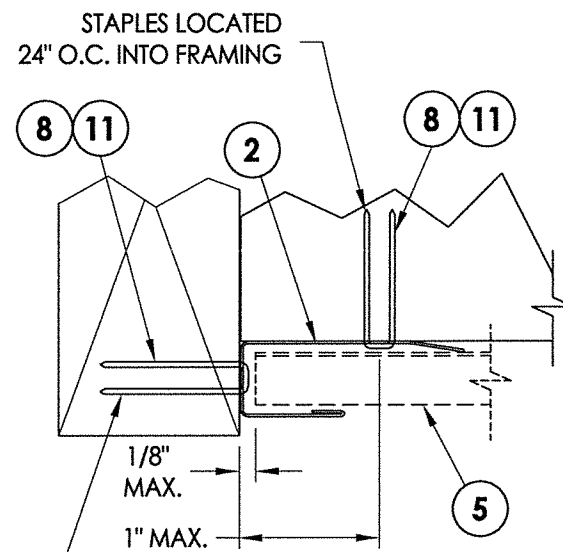
NOTE: FOR SQUARE CUT OVERHANG, TRIM BOTTOM OF FASCIA FLAT AGAINST PANEL

STAPLES INSTALLED @ END OF PANEL AND 8" MAX. O.C. (SEE DETAIL "J", SHEET 5)



**DETAIL "A"**

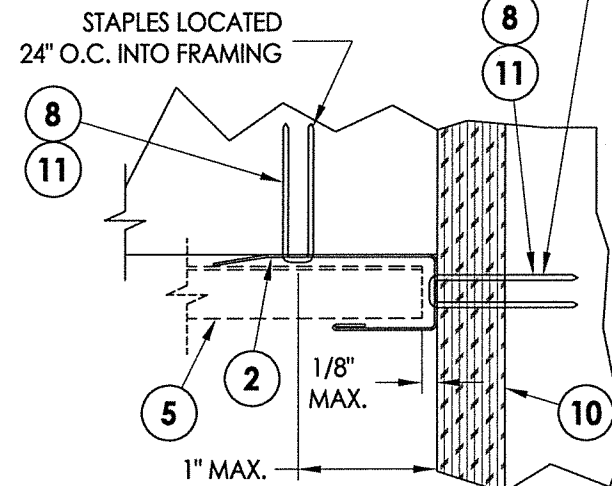
Fascia



**DETAIL "D"**

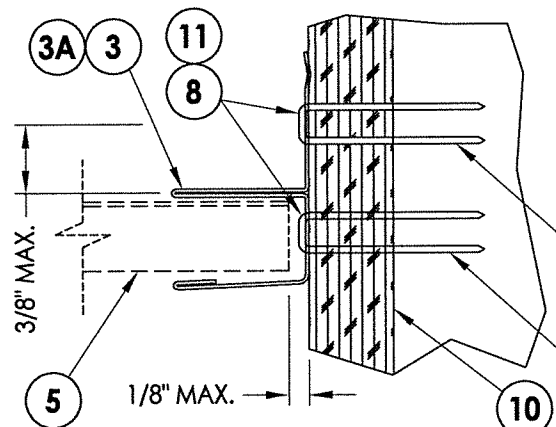
J-Channel  
Fascia

STAPLES INSTALLED @ 12" O.C. (INTO WOOD) IN J-CHANNEL SLOT OR T-NAIL @ 12" O.C. (INTO WOOD OR MASONRY)



**DETAIL "C"**

J-Channel



**DETAIL "B"**

F-Channel

STAPLES INSTALLED @ 24" O.C. (INTO WOOD) ON F-CHANNEL LEG OR T-NAIL @ 12" O.C. (INTO WOOD OR MASONRY)

STAPLES INSTALLED @ 12" O.C. (INTO WOOD) IN F-CHANNEL SLOT OR T-NAIL @ 12" O.C. (INTO WOOD OR MASONRY)

SUBSTRATE NOTES:

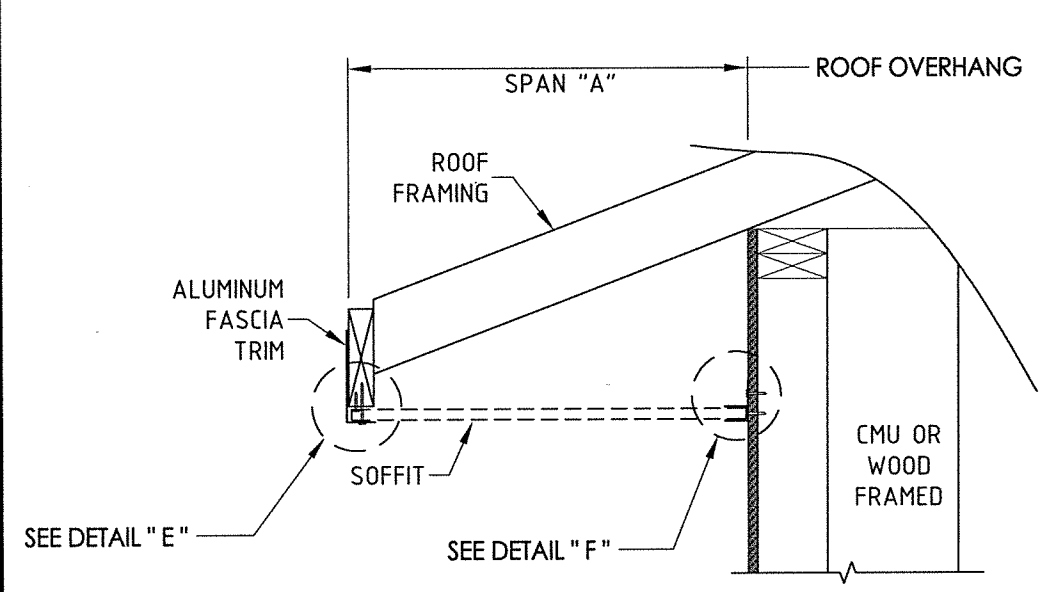
- WOOD SUBSTRATE: G = 0.42 OR BETTER
- MASONRY SUBSTRATE: 3,000 PSI CONCRETE (ACI 301) OR HOLLOW BLOCK (ASTM C90).

Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 4-3409

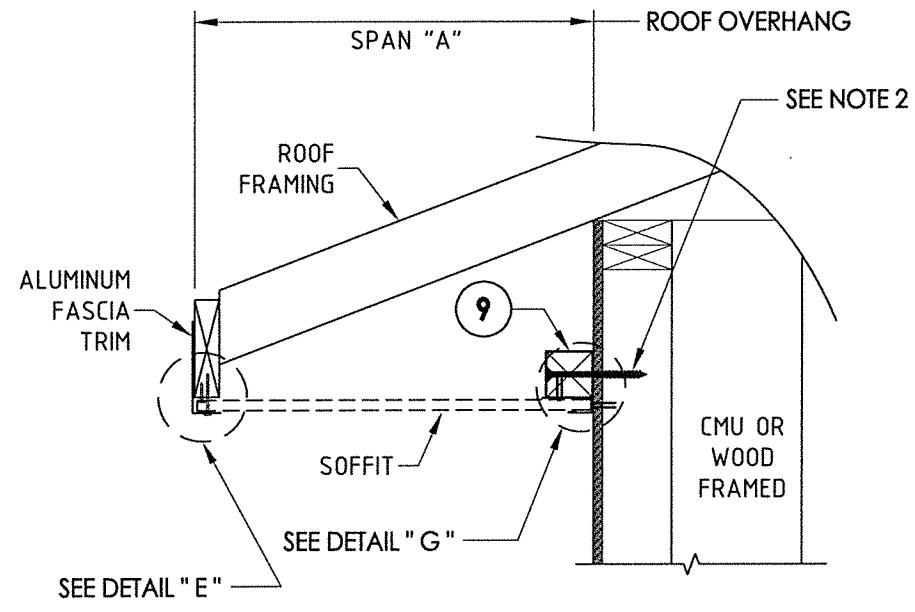
**PROFESSIONAL ENGINEER**  
 BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

PRODUCT:		ALUMINUM SOFFIT	
PART OR ASSEMBLY:		SOFFIT DETAILS & DESIGN PRESSURES	
7	10/01/20	UPDATE TO 7TH ED. (2020) FBC	LFS
6	03/19/20	ADD ALTERNATE "F" CHANNEL	LFS
5	01/01/09	UPDATE TO 6TH ED. (2017) FBC	LFS
4	03/02/15	UPDATE TO 5TH ED. (2014) FBC	JK
3	12/13/11	UPDATE FOR 2010 FBC	LFS
NO.	DATE		BY
REVISIONS			
DATE: 1/9/09			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-12019.1			
SHEET 3 OF 5			

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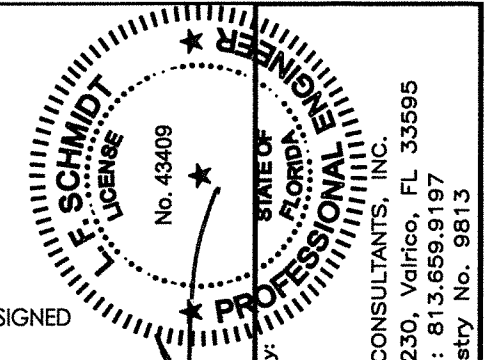
**SIDE VIEW - SINGLE SPAN w/F-CHANNEL**  
(Shown w/ truss/framing overhang)



**SIDE VIEW - SINGLE SPAN w/J-CHANNEL**  
(Shown w/ truss/framing overhang)

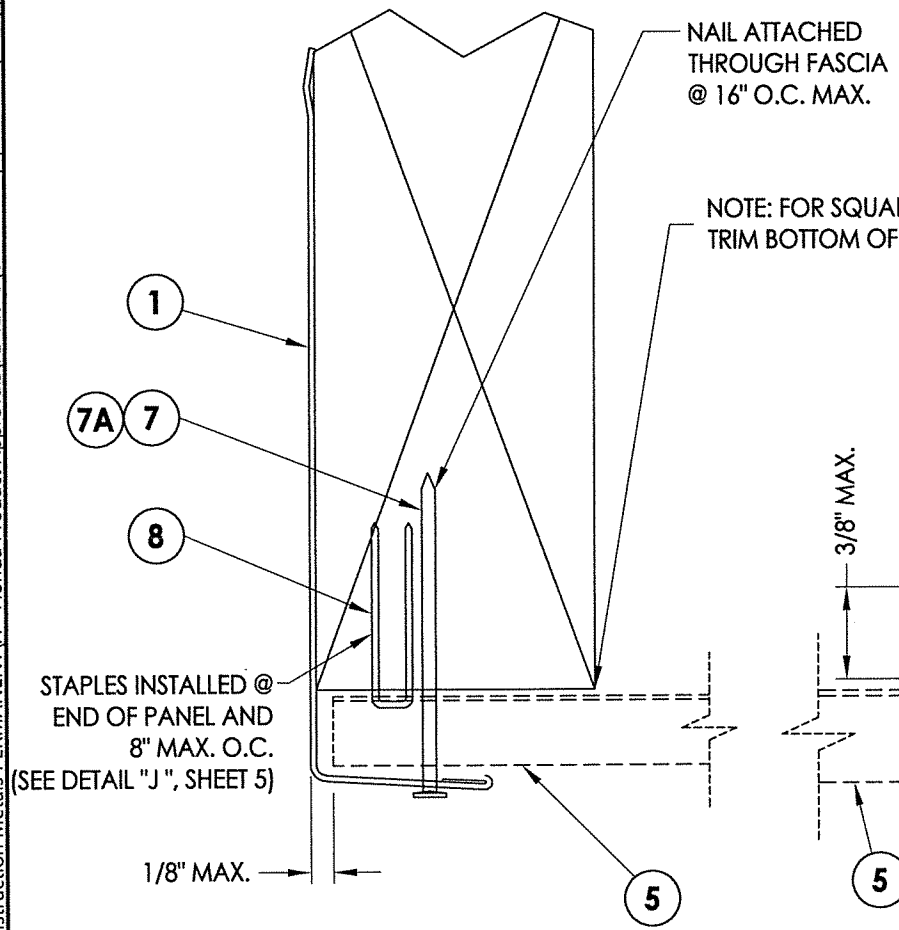
- CONNECTOR NOTES:  
 1. WOOD FRAMING AND CONNECTIONS TO BE DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD  
 2. 12d COMMON NAIL OR 3/16" ITW TAPCON CONCRETE SCREW (MIN. 1-1/4" EMBEDMENT) @ 24" ON CENTER

SINGLE SPAN LENGTH "A"	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
8"	+70.0	-141.0
10"	+60.0	-60.0
12"	+50.0	-50.0
14"	+38.5	-38.5
16"	+30.0	-30.0



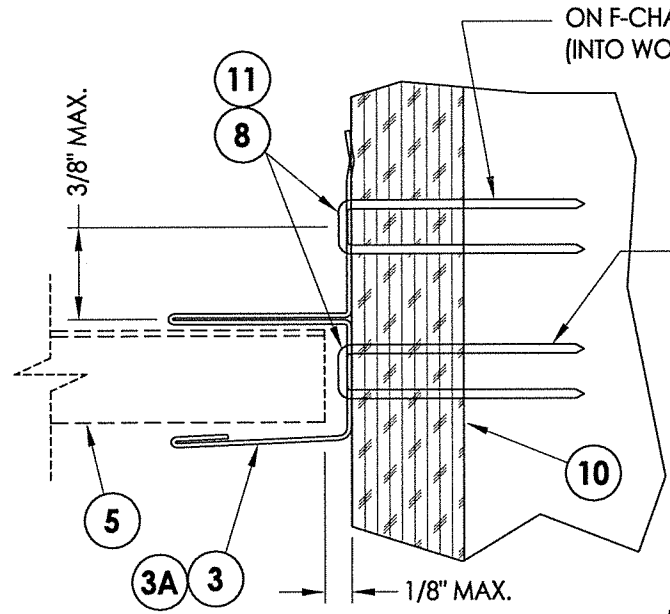
Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409

**R.W.**  
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 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
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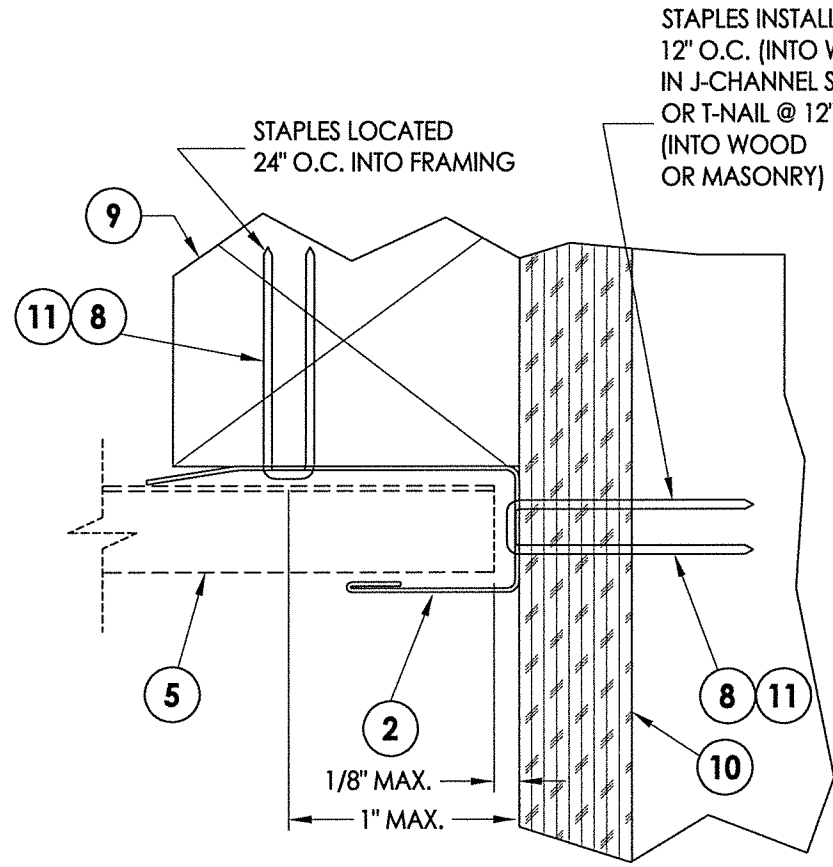
**DETAIL "E"**  
Fascia

NOTE: FOR SQUARE CUT OVERHANG, TRIM BOTTOM OF FASCIA FLAT AGAINST PANEL



**DETAIL "F"**  
F-Channel

- SUBSTRATE NOTES:  
 1. WOOD SUBSTRATE: G = 0.42 OR BETTER  
 2. MASONRY SUBSTRATE: 3,000 PSI CONCRETE (ACI 301) OR HOLLOW BLOCK (ASTM C90).



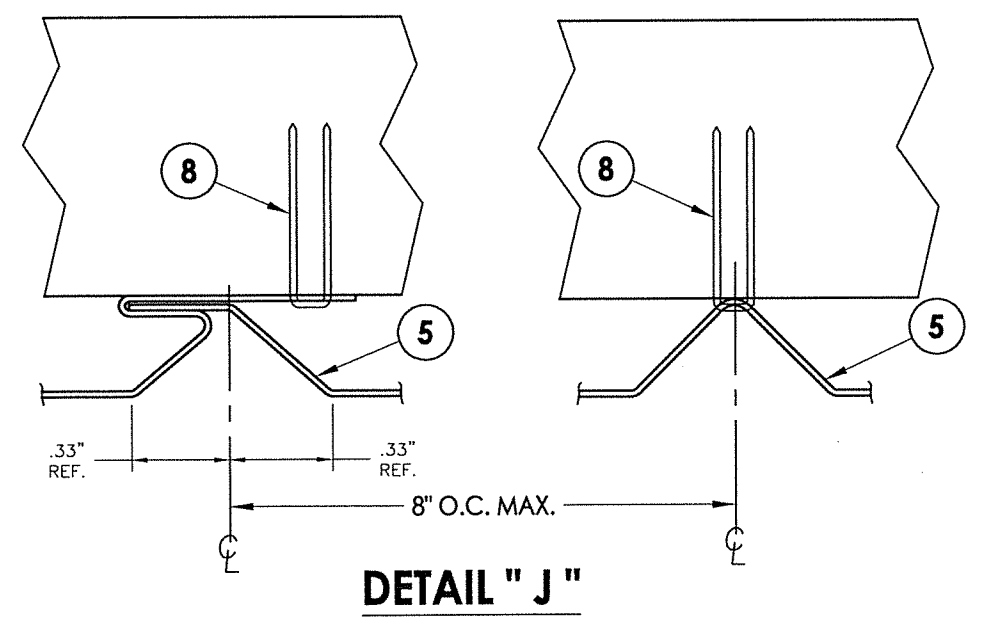
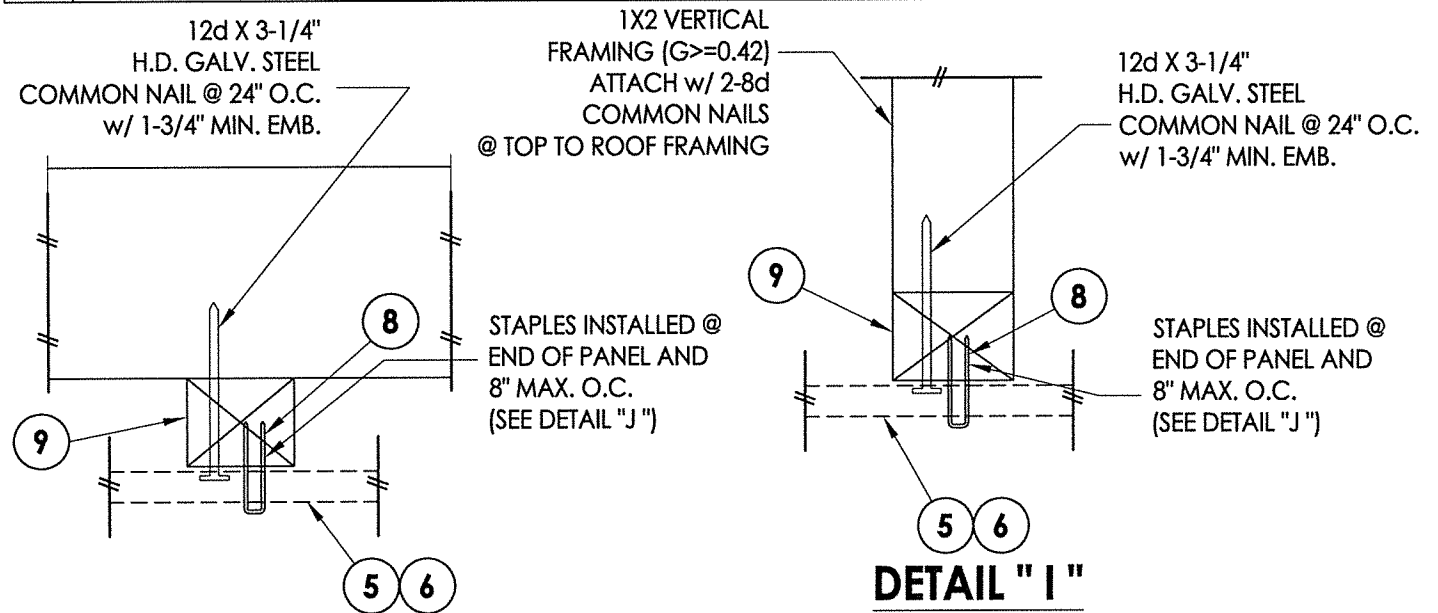
**DETAIL "G"**  
J-Channel

PRODUCT:	ALUMINUM SOFFIT
PART OR ASSEMBLY:	SOFFIT DETAILS & DESIGN PRESSURES
REVISIONS	
NO.	DATE
7	10/01/20
6	03/19/20
5	01/01/09
4	03/02/15
3	12/13/11
DATE: 1/9/09	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-12019.1	
SHEET 4 OF 5	

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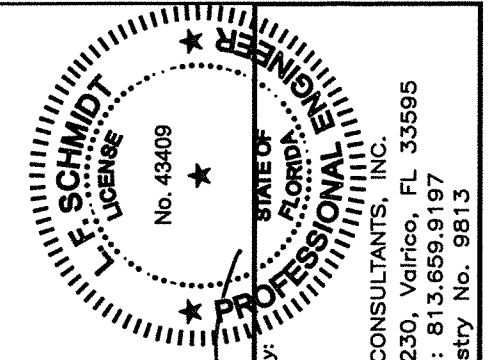
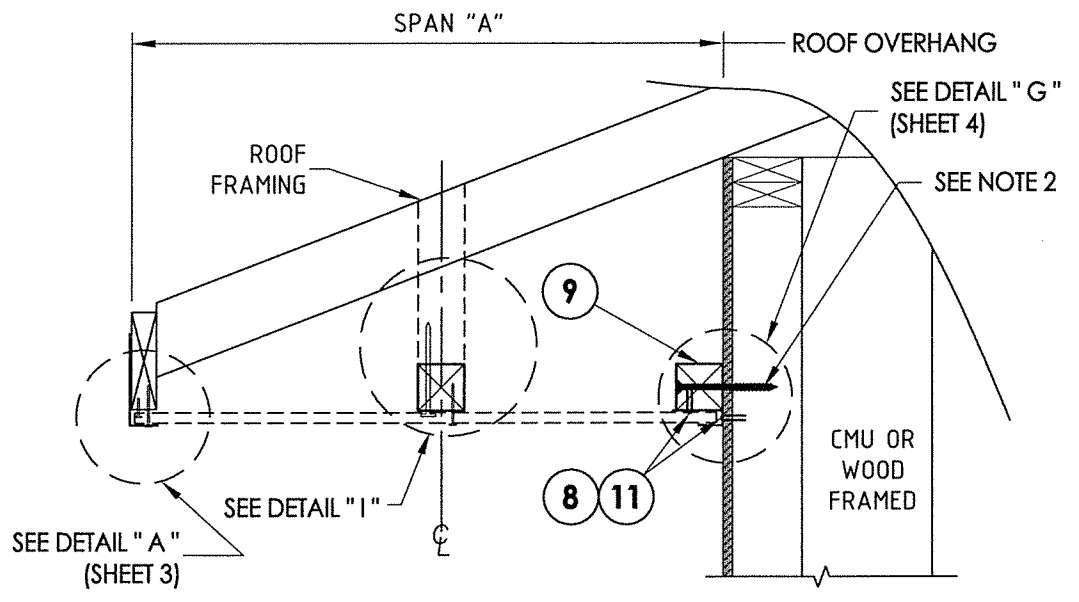
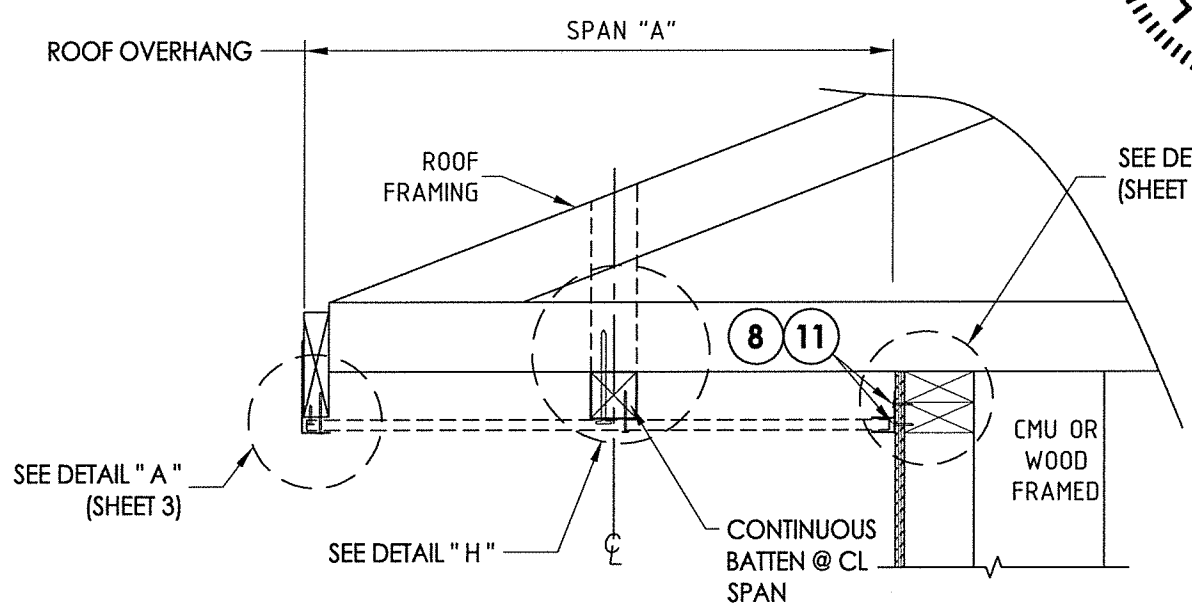
ITEM	DESCRIPTION	MATERIAL
1	FASCIA (0.0215" THK.) ALUM. 3105 - H14	ALUMINUM
2	"J" CHANNEL (0.0155" THK.) ALUM. 3105 - H24	ALUMINUM
3	"F" CHANNEL (0.0155" THK.) ALUM. 3104 - H19	ALUMINUM
3A	"F" CHANNEL (0.0170" THK.) ALUM. 3104 - H19	ALUMINUM
5	QUAD 4 PANEL (0.0115" OR 0.0135" THICK) ALUM. 3105	ALUMINUM
6	TRIPLE 4 PANEL (0.0115" OR 0.0135" THICK) ALUM. 3105	ALUMINUM
7	#15 x 1-3/4" TRIM NAIL	S.S.
7A	14GA. X 1-1/2" LONG FINISHING NAIL w/ 3/16" DIA. HEAD	S.S.
8	18" GA. X 1/4" SS STAPLE (w/ 7/8" MIN. EMBEDMENT)	STEEL
9	2" X 2" BATTEN STRIP (G=0.42 OR BETTER)	WOOD
10	APA B-C GROUP 1 EXT. 15/32" PLYWOOD OR BETTER	WOOD
11	0.097" DIA. T-NAIL (w/ 5/8" MIN. EMBEDMENT)	STEEL



TWIN SPAN LENGTH w/CONTINUOUS BATTEN "A"	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
16"	+70.0	-70.0
18"	+66.5	-66.5
20"	+60.0	-60.0
22"	+54.5	-54.5
24"	+50.0	-50.0

**CONNECTOR NOTES:**  
 1. WOOD FRAMING AND CONNECTIONS TO BE DESIGNED BY THE ARCHITECT OR ENGINEER OF RECORD  
 2. 12d COMMON NAIL OR 3/16" ITW TAPCON CONCRETE SCREW (MIN. 1-1/4" EMBEDMENT) @ 24" ON CENTER

**SUBSTRATE NOTES:**  
 1. WOOD SUBSTRATE: G = 0.42 OR BETTER  
 2. MASONRY SUBSTRATE: 3,000 PSI CONCRETE (ACI 301) OR HOLLOW BLOCK (ASTM C90).



Documents Prepared By:  
 Lyndon F. Schmidt  
 P.E. No. 43409

R.W. BUILDING CONSULTANTS, INC.  
 P.O. Box 230, Valrico, FL 33595  
 Phone No.: 813.659.9197  
 FBPE Registry No. 9813

PRODUCT: ALUMINUM SOFFIT  
 PART OR ASSEMBLY: SOFFIT DETAILS, DESIGN PRESSURES & BILL OF MATERIALS

NO.	DATE	REVISIONS
7	10/01/20	UPDATE TO 7TH ED. (2020) FBC
6	03/19/20	ADD ALTERNATE "F" CHANNEL
5	01/01/09	UPDATE TO 6TH ED. (2017) FBC
4	03/02/15	UPDATE TO 5TH ED. (2014) FBC
3	12/13/11	UPDATE FOR 2010 FBC

DATE: 1/9/09  
 SCALE: N.T.S.  
 DWG. BY: JK  
 CHK. BY: LFS  
 DRAWING NO.: FL-12019.1  
 SHEET 5 OF 5