

Ultimate Flip Lever Astragal

INSWING / OUTSWING

"NON-IMPACT"

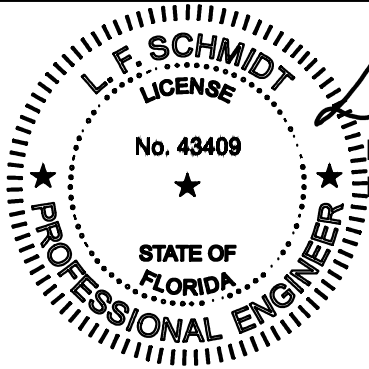
GENERAL NOTES

- 1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements 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. When used in areas requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
- 4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
- 5. This product has been tested and is approved for use in the door panels as specified in this approval. Substitution into a similar product that possess a comparable current Florida Statewide product approval may be approved for use by the local Authority Having Jurisdiction.
- 6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures and general notes
2	Astragal details
3	Door panel details
4	Horizontal and vertical cross sections
5	Threshold details
6	Buck and frame anchoring



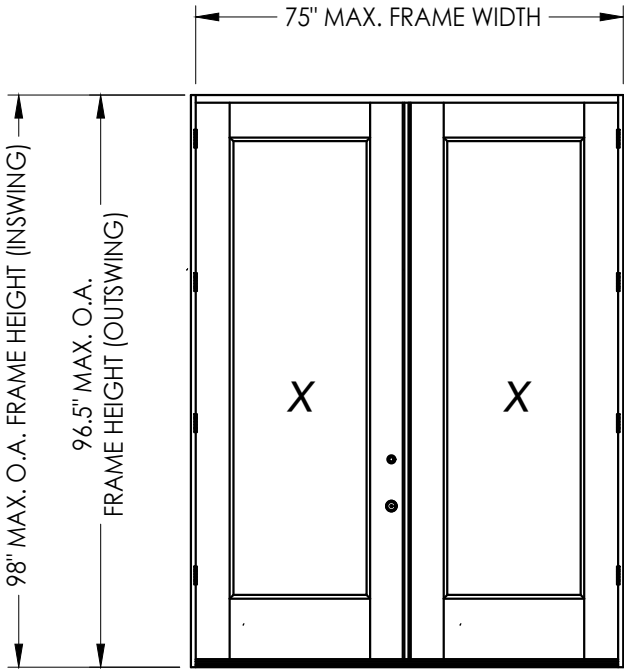
Ultimate Flip Lever Astragal



L.F. Schmidt
Digitally signed by Lyndon F Schmidt
Date: 2024.04.17 16:12:47 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

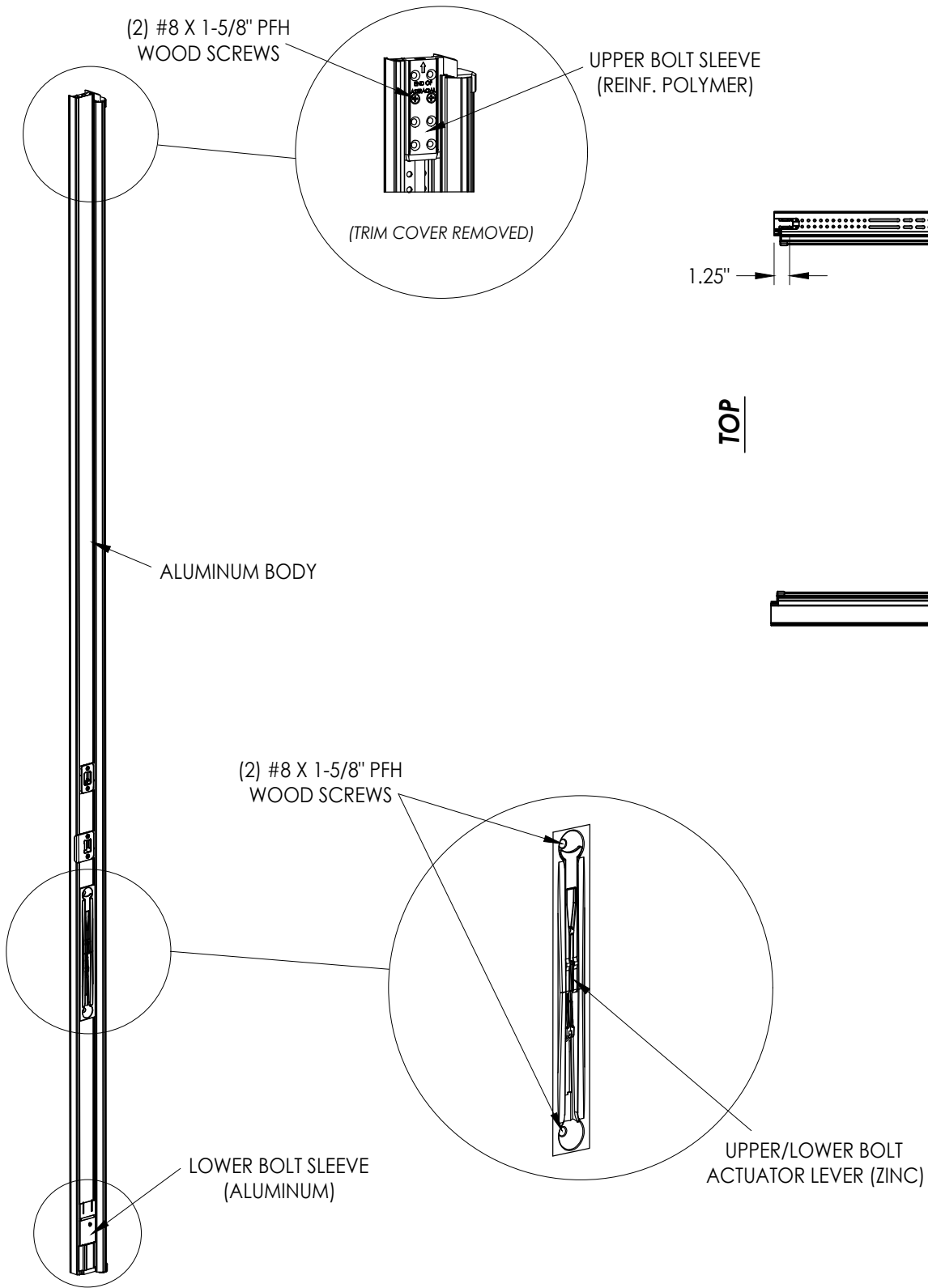


ULTIMATE FLIP LEVER ASTRAGAL by ENDURA				
MAXIMUM FRAME SIZE			DESIGN PRESSURE RATING (PSF)	
			POSITIVE	NEGATIVE
MASONITE Insert Glazed (Steel)	INSWING	75" X 98"	+40.0	-45.0
	OUTSWING	75" X 96.5"	+40.0	-40.0

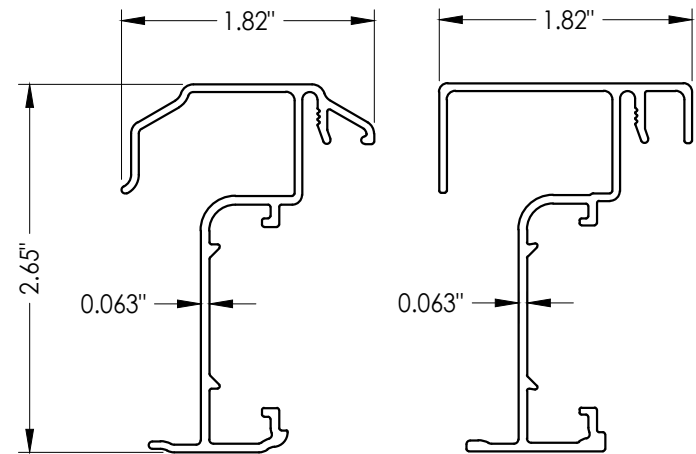
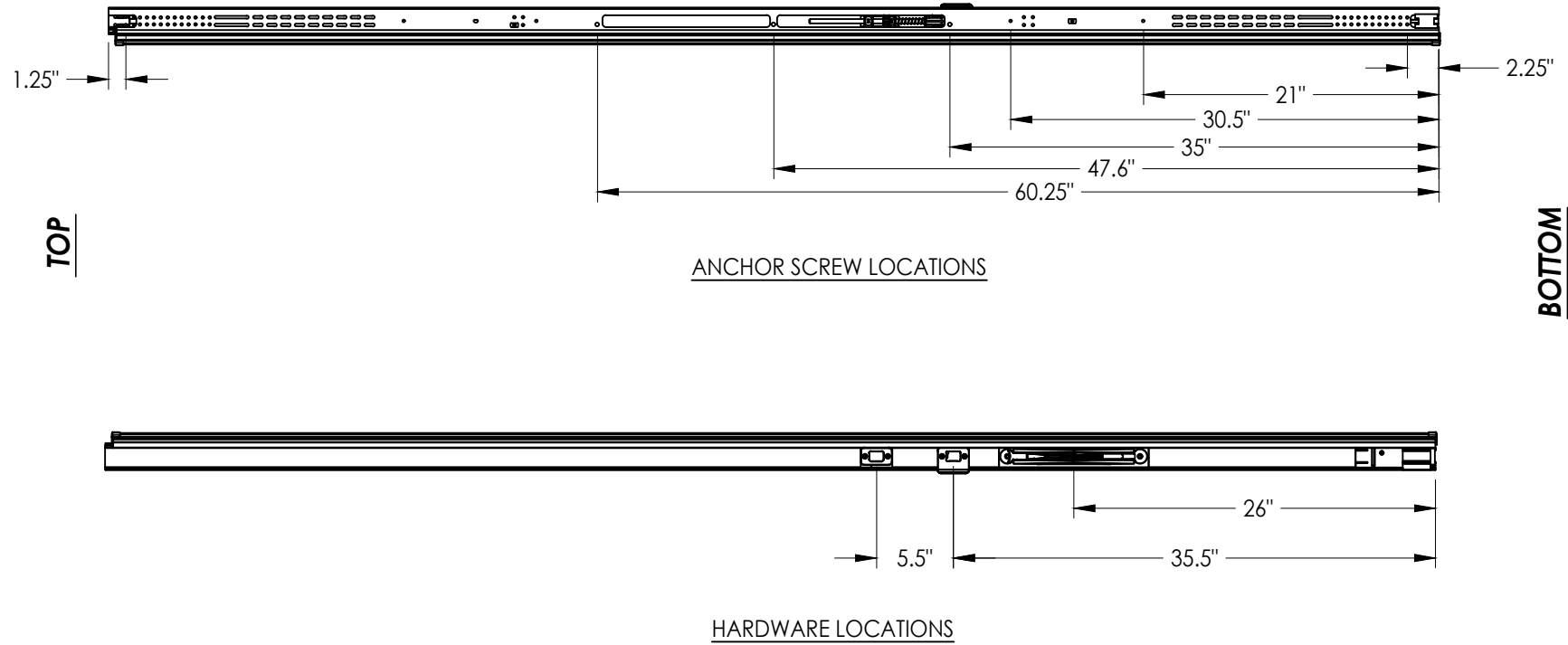
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

PRODUCT: ENDURA		PART OR ASSEMBLY: TYPICAL ELEVATIONS, DESIGN PRESSURES & GENERAL NOTES	
		LFS	BY
		LFS	
		LFS	
		NO	DATE
			REVISIONS
		8	4/16/24 ADD MODERN ASTRAGAL PROFILE
		7	7/07/23 UPDATE TO 8TH ED. (2023) FBC
		6	8/11/20 UPDATE TO 7TH ED. (2020) FBC
DATE: 8/30/11			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14823.15			
SHEET 1 OF 6			



ULTIMATE FLIP LEVER ASTRAGAL



"TRADITIONAL" PROFILE	"MODERN" PROFILE
1. Attitudes 2. Values 3. Beliefs 4. Attitudes 5. Values 6. Beliefs 7. Attitudes 8. Values 9. Beliefs 10. Attitudes 11. Values 12. Beliefs 13. Attitudes 14. Values 15. Beliefs 16. Attitudes 17. Values 18. Beliefs 19. Attitudes 20. Values 21. Beliefs 22. Attitudes 23. Values 24. Beliefs 25. Attitudes 26. Values 27. Beliefs 28. Attitudes 29. Values 30. Beliefs 31. Attitudes 32. Values 33. Beliefs 34. Attitudes 35. Values 36. Beliefs 37. Attitudes 38. Values 39. Beliefs 40. Attitudes 41. Values 42. Beliefs 43. Attitudes 44. Values 45. Beliefs 46. Attitudes 47. Values 48. Beliefs 49. Attitudes 50. Values 51. Beliefs 52. Attitudes 53. Values 54. Beliefs 55. Attitudes 56. Values 57. Beliefs 58. Attitudes 59. Values 60. Beliefs 61. Attitudes 62. Values 63. Beliefs 64. Attitudes 65. Values 66. Beliefs 67. Attitudes 68. Values 69. Beliefs 70. Attitudes 71. Values 72. Beliefs 73. Attitudes 74. Values 75. Beliefs 76. Attitudes 77. Values 78. Beliefs 79. Attitudes 80. Values 81. Beliefs 82. Attitudes 83. Values 84. Beliefs 85. Attitudes 86. Values 87. Beliefs 88. Attitudes 89. Values 90. Beliefs 91. Attitudes 92. Values 93. Beliefs 94. Attitudes 95. Values 96. Beliefs 97. Attitudes 98. Values 99. Beliefs 100. Attitudes	1. Attitudes 2. Values 3. Beliefs 4. Attitudes 5. Values 6. Beliefs 7. Attitudes 8. Values 9. Beliefs 10. Attitudes 11. Values 12. Beliefs 13. Attitudes 14. Values 15. Beliefs 16. Attitudes 17. Values 18. Beliefs 19. Attitudes 20. Values 21. Beliefs 22. Attitudes 23. Values 24. Beliefs 25. Attitudes 26. Values 27. Beliefs 28. Attitudes 29. Values 30. Beliefs 31. Attitudes 32. Values 33. Beliefs 34. Attitudes 35. Values 36. Beliefs 37. Attitudes 38. Values 39. Beliefs 40. Attitudes 41. Values 42. Beliefs 43. Attitudes 44. Values 45. Beliefs 46. Attitudes 47. Values 48. Beliefs 49. Attitudes 50. Values 51. Beliefs 52. Attitudes 53. Values 54. Beliefs 55. Attitudes 56. Values 57. Beliefs 58. Attitudes 59. Values 60. Beliefs 61. Attitudes 62. Values 63. Beliefs 64. Attitudes 65. Values 66. Beliefs 67. Attitudes 68. Values 69. Beliefs 70. Attitudes 71. Values 72. Beliefs 73. Attitudes 74. Values 75. Beliefs 76. Attitudes 77. Values 78. Beliefs 79. Attitudes 80. Values 81. Beliefs 82. Attitudes 83. Values 84. Beliefs 85. Attitudes 86. Values 87. Beliefs 88. Attitudes 89. Values 90. Beliefs 91. Attitudes 92. Values 93. Beliefs 94. Attitudes 95. Values 96. Beliefs 97. Attitudes 98. Values 99. Beliefs 100. Attitudes

ASTRAGAL SECTIONS

8	4/16/24	ADD MODERN ASTRAGAL PROFILE	LFS						
7	7/07/23	UPDATE TO 8TH ED. (2023)	FBC						
6	8/11/20	UPDATE TO 7TH ED. (2020)	FBC						
NO.	DATE								
									REVISIONS
DATE: 8/30/11									
SCALE: N.T.S.									
DWG. BY: JK									
CHK. BY: LFS									
DRAWING NO.: FL-14823.15									
SHEET 2 OF 6									

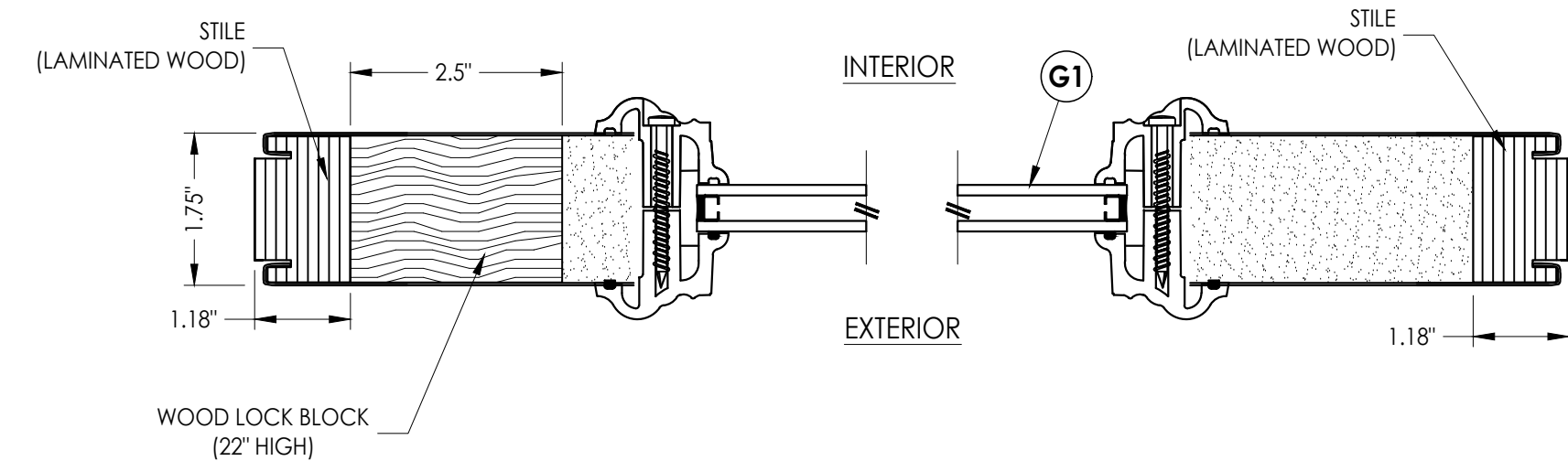
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Lyndon F. Schmidt
P.E. No. 43409

PRODUCT: ENDURA

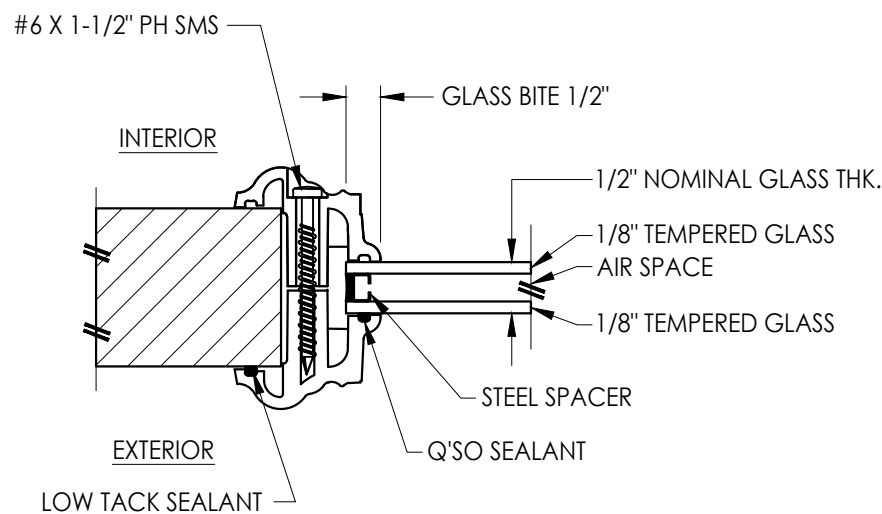
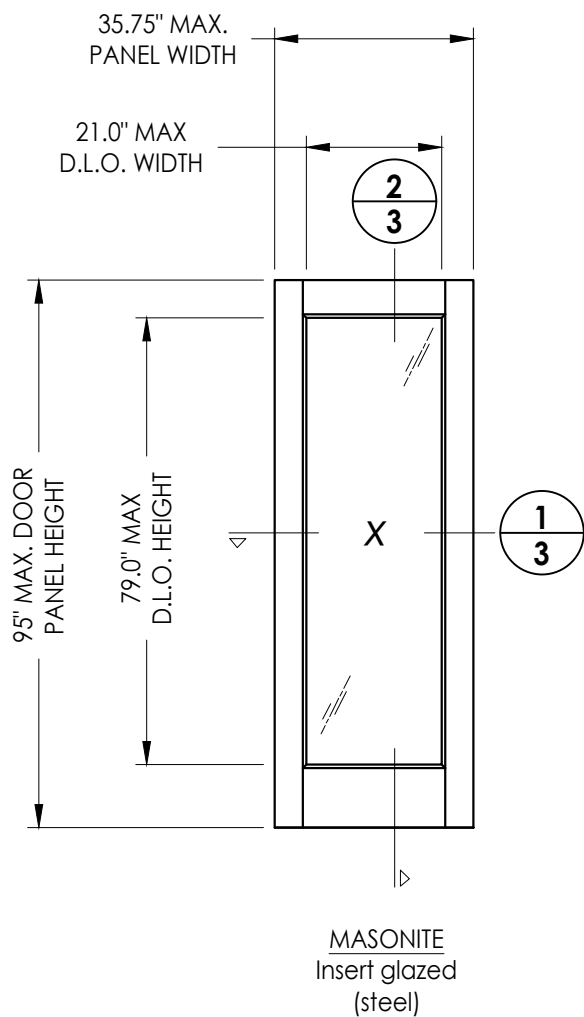
ASSEMBLY:
ASTRAGAL DETAILS

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
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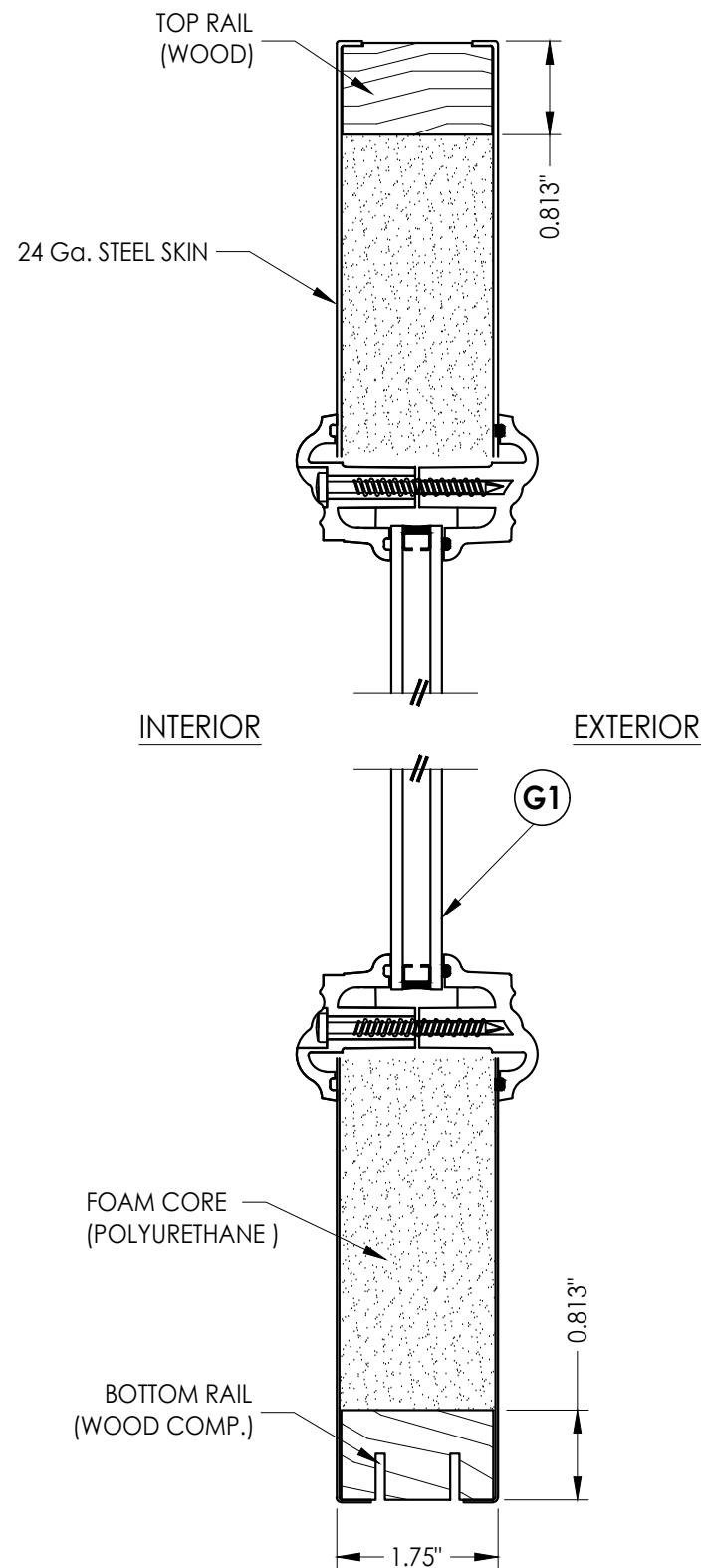
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1
3 **HORIZONTAL CROSS SECTION**

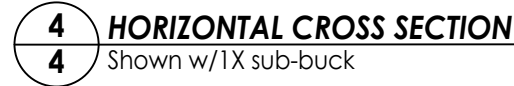


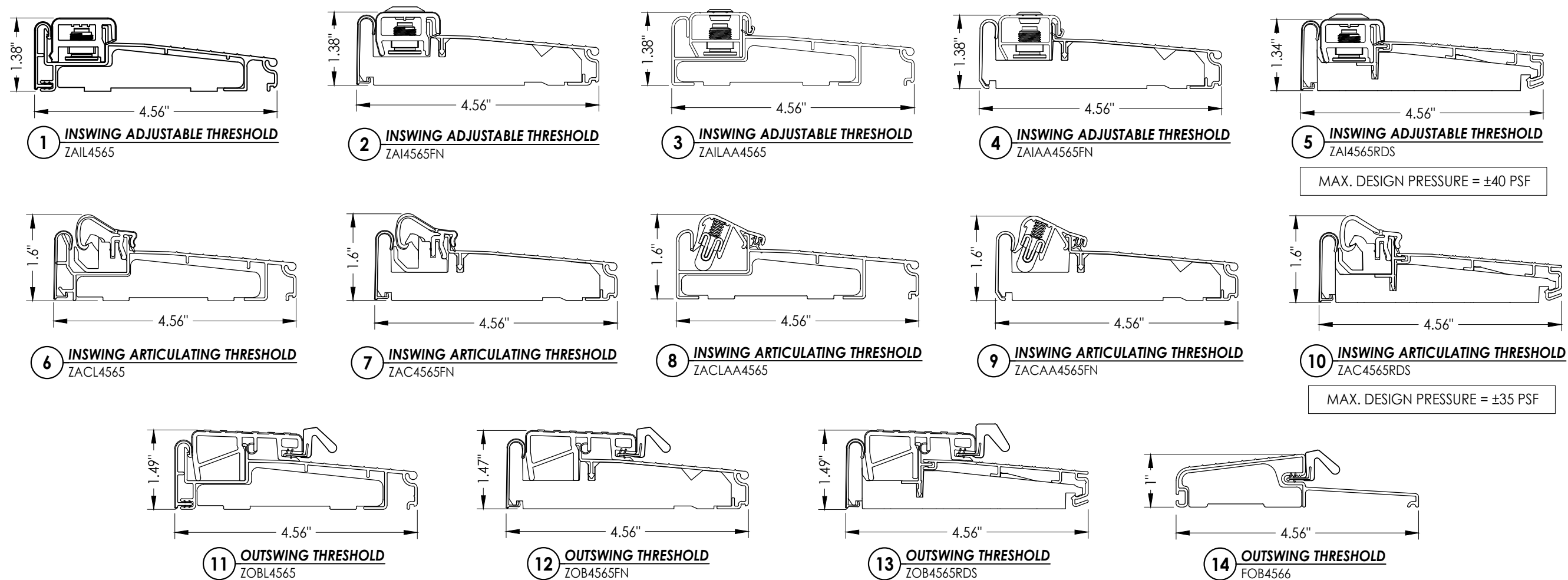
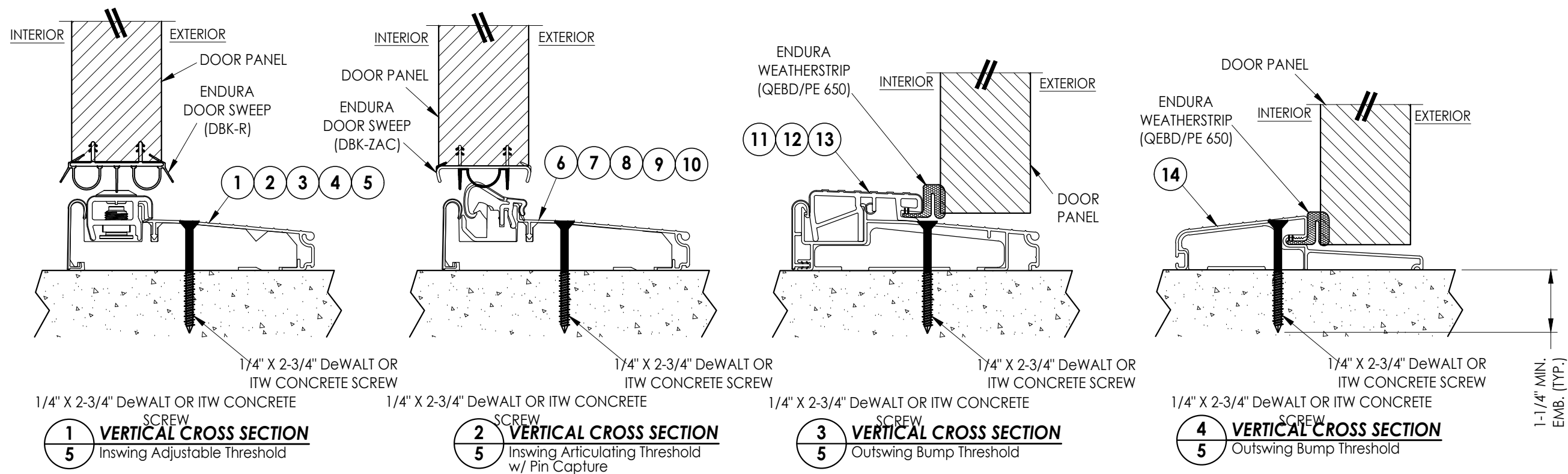
G1 **GLAZING DETAIL**
Lip Lite Insert Glazing



2
3 **VERTICAL CROSS SECTION**

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PRODUCT:		ENDURA		PART OR ASSEMBLY: DOOR, PANEL DETAILS & GLAZING DETAIL			
				LFS			
				FBC			
				FBC			
				BY			
				REVISIONS			
				NO.	DATE		
			8	4/16/24	ADD MODERN ASTRAGAL PROFILE		
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SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-14823.15							
SHEET 3 OF 6							

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P.E. No. 43409

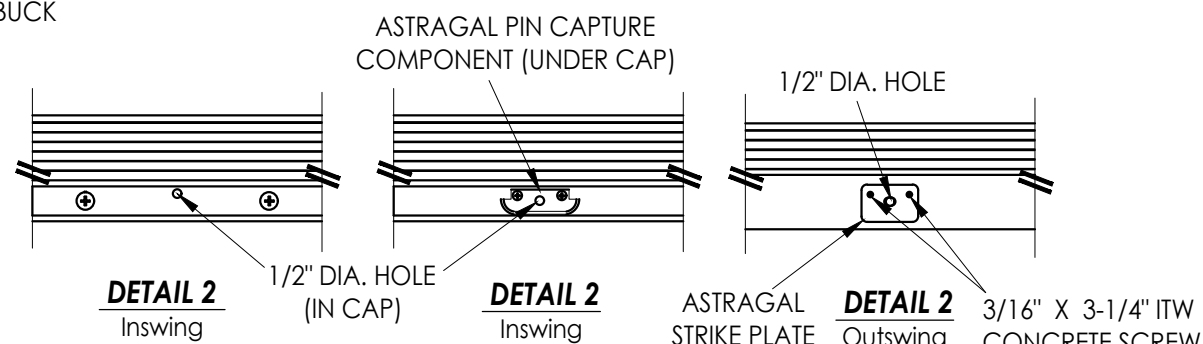
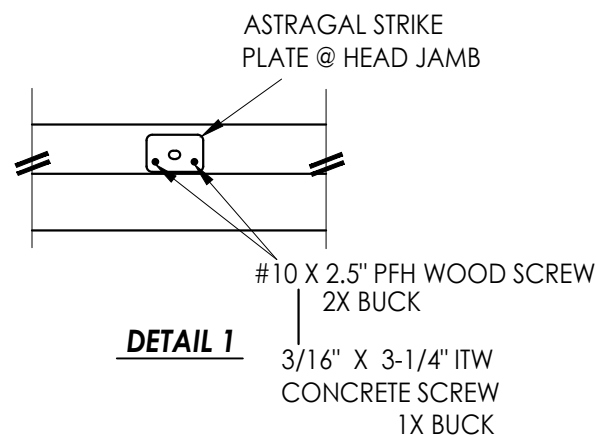
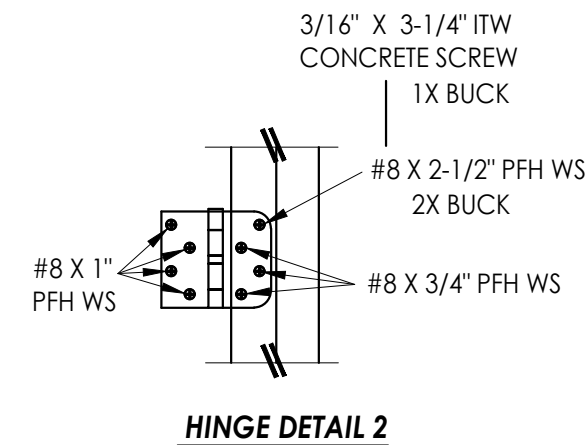
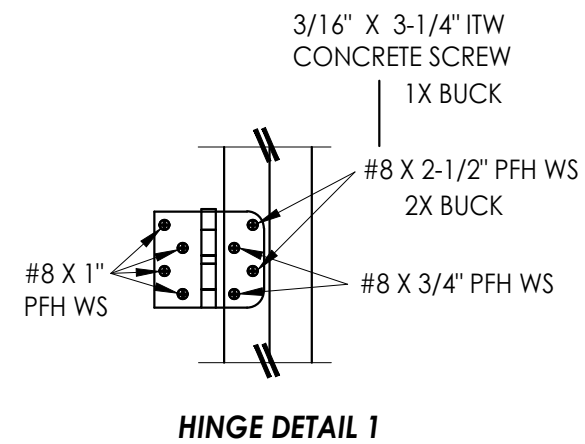
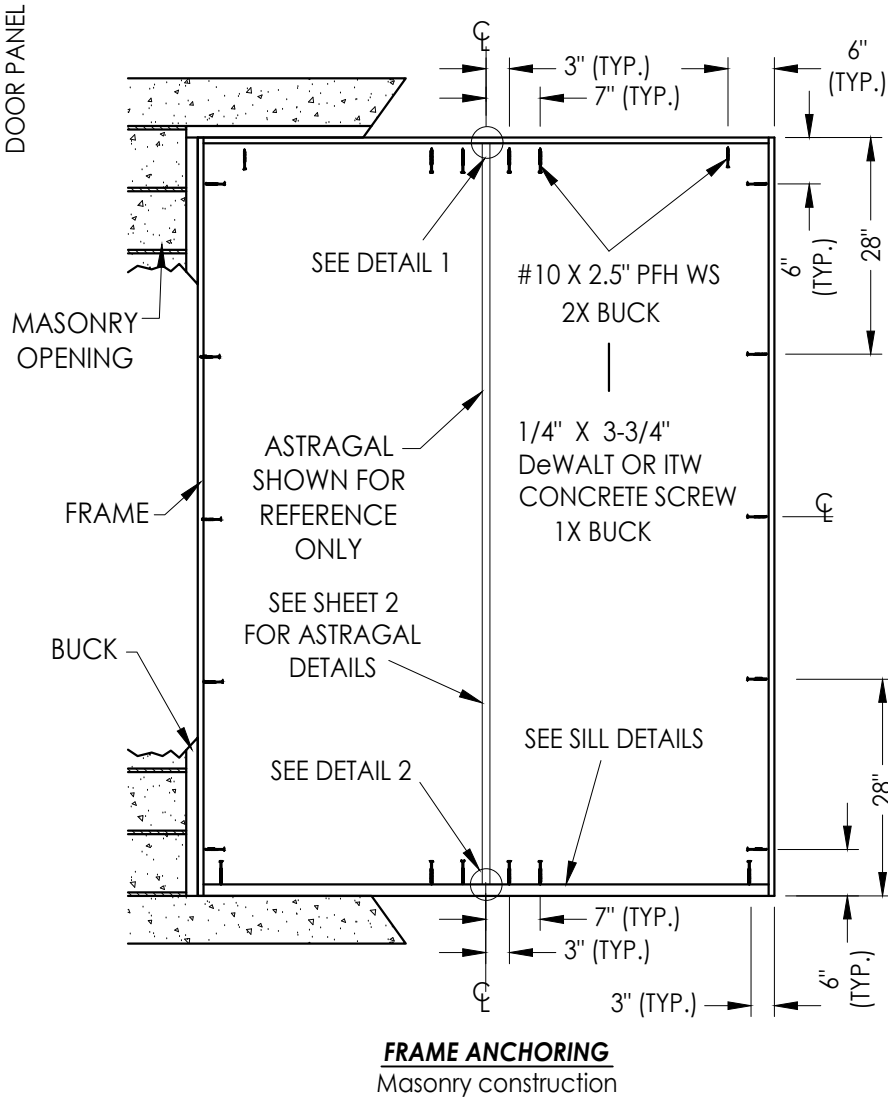
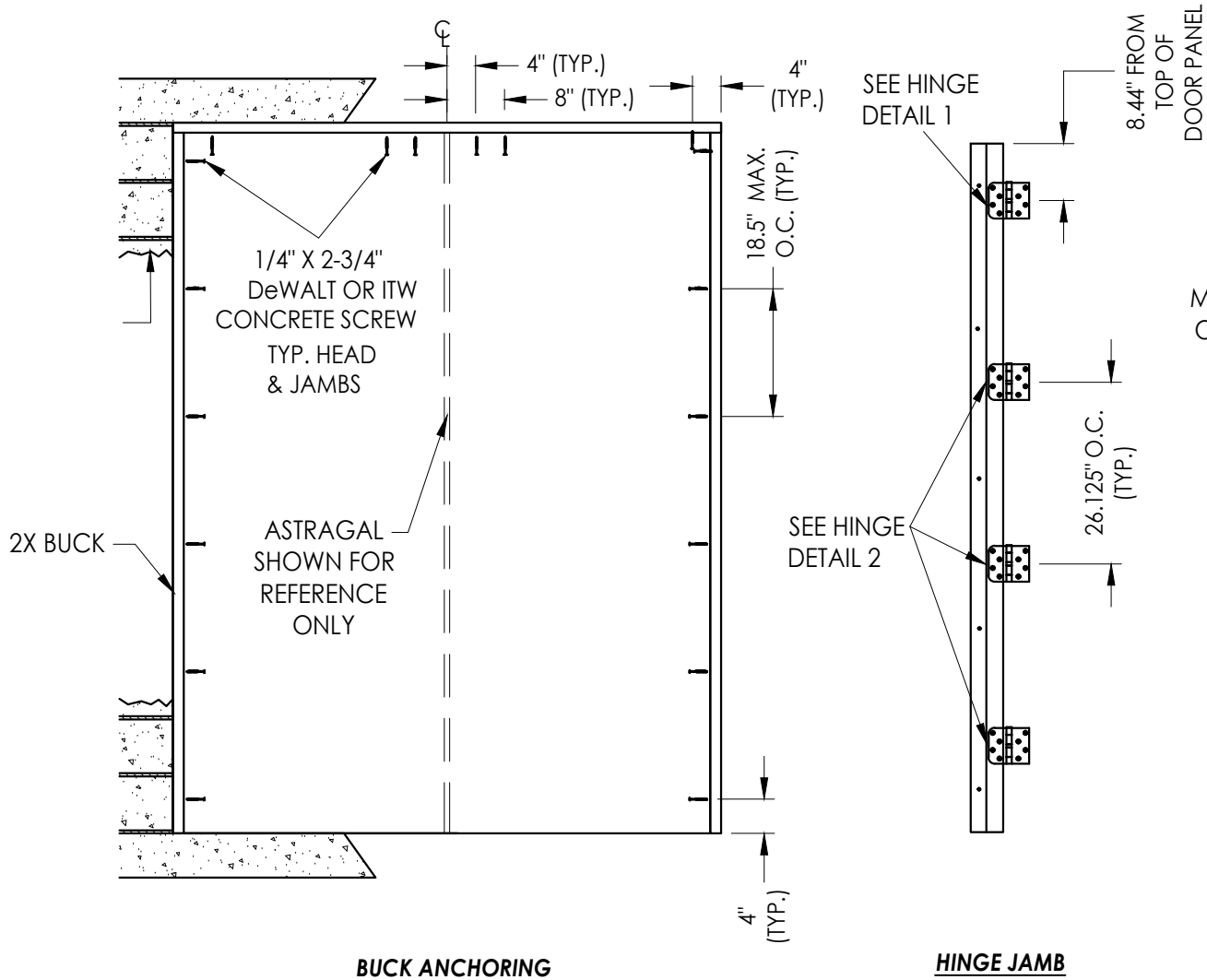
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FBPE Registry No. 9813

ENDURA

ASSEMBLY:

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CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"
	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.

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PRODUCT: ENDURA

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

NO.	DATE	REVISIONS
8	4/16/24	ADD MODERN ASTRAGAL PROFILE LFS
7	7/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
6	8/11/20	UPDATE TO 7TH ED. (2020) FBC LFS
5		
4		
3		
2		
1		

DATE: 8/30/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-14823.15

SHEET 6 OF 6