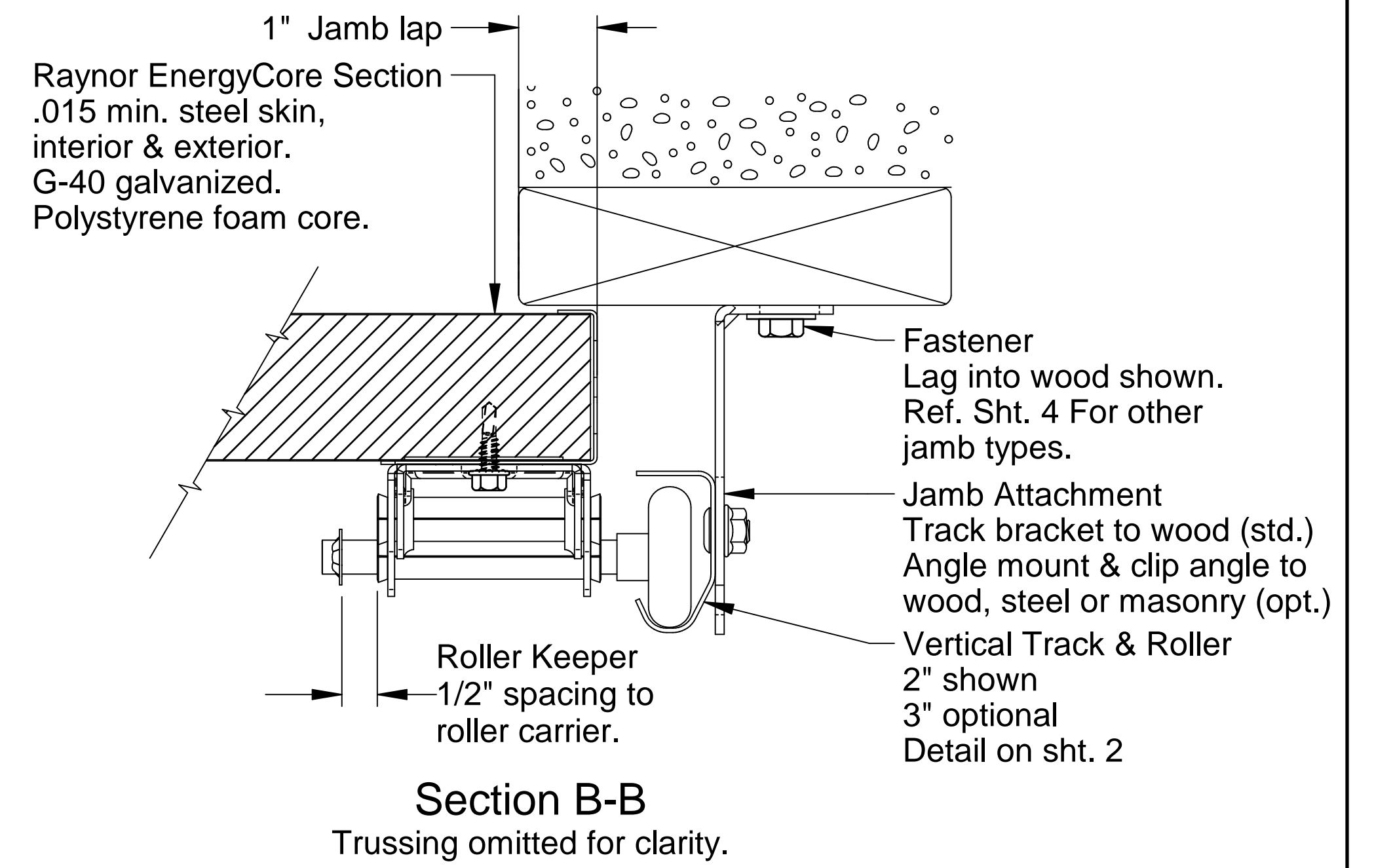
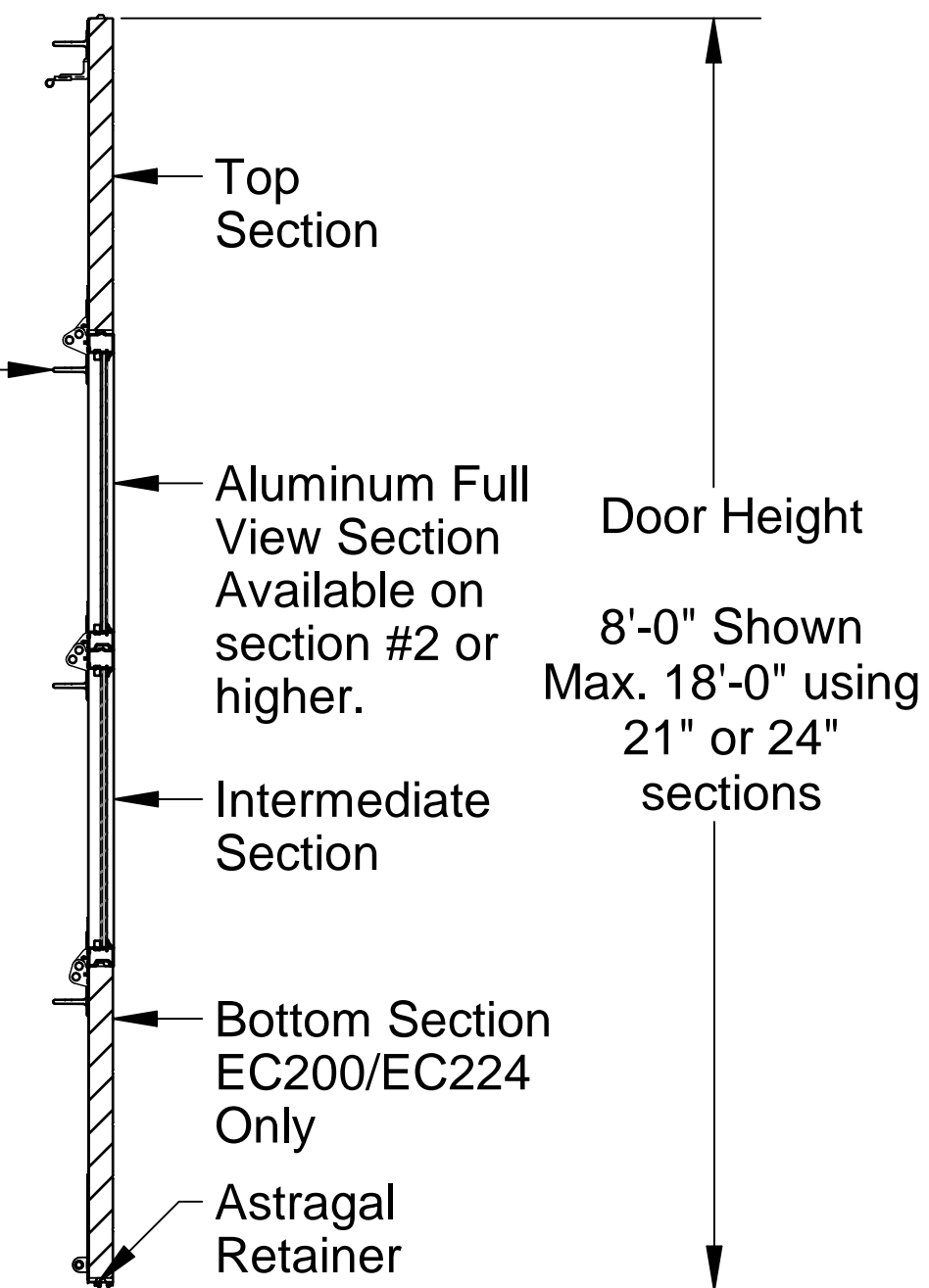
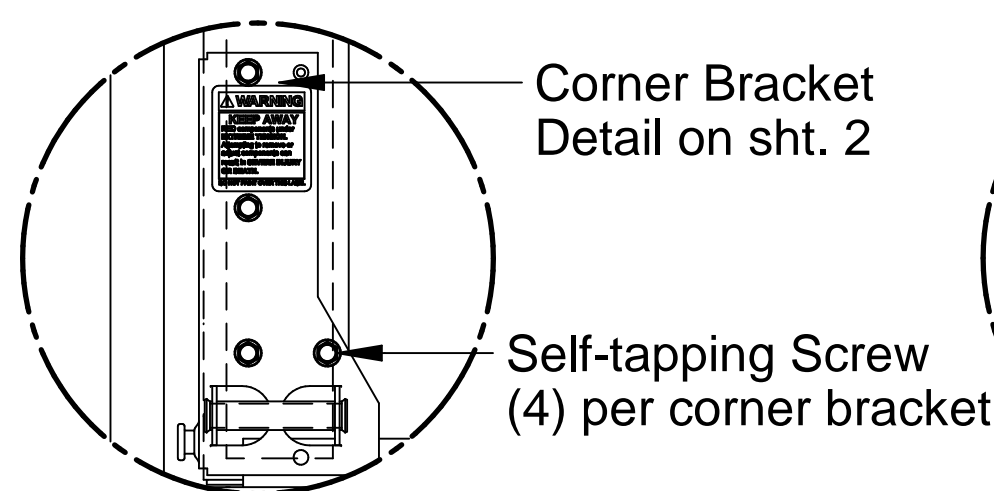


Ubar, 18 ga
One per section,
top of the section.
(2) Self-drilling
screws per hinge
location.

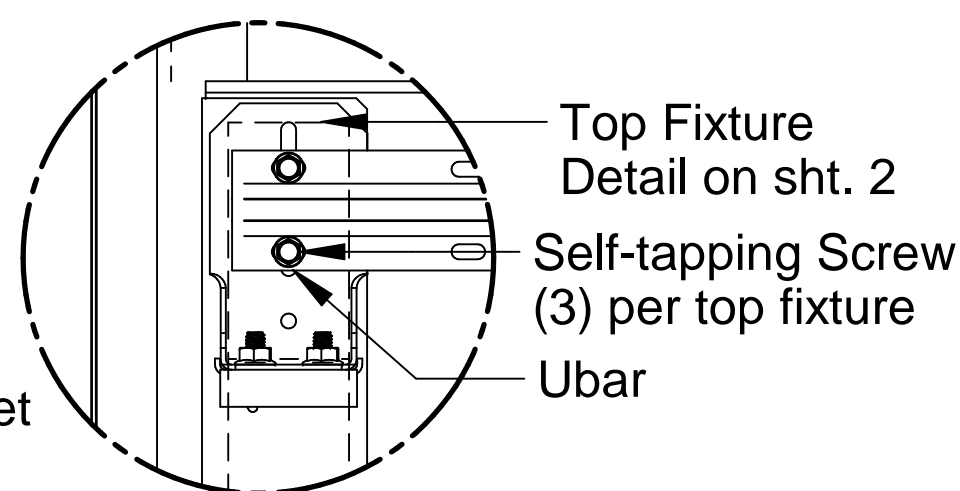
Section A-A



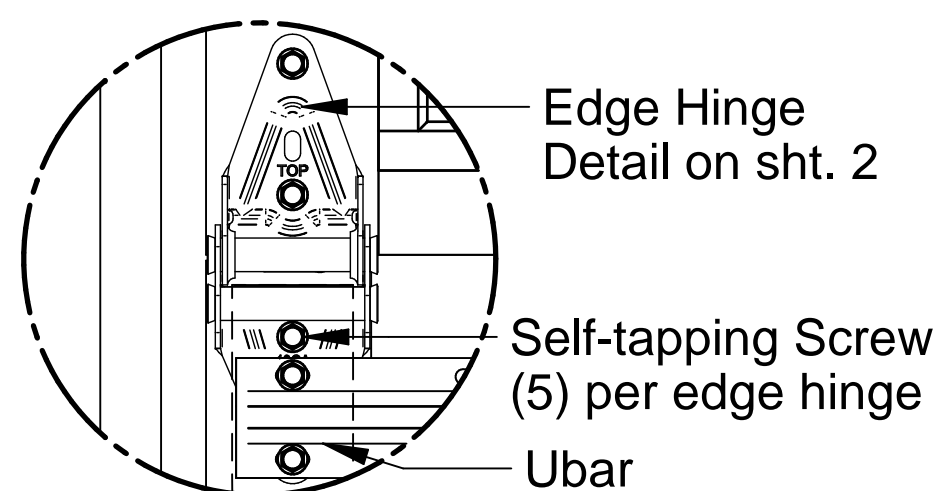
Interior Elevation



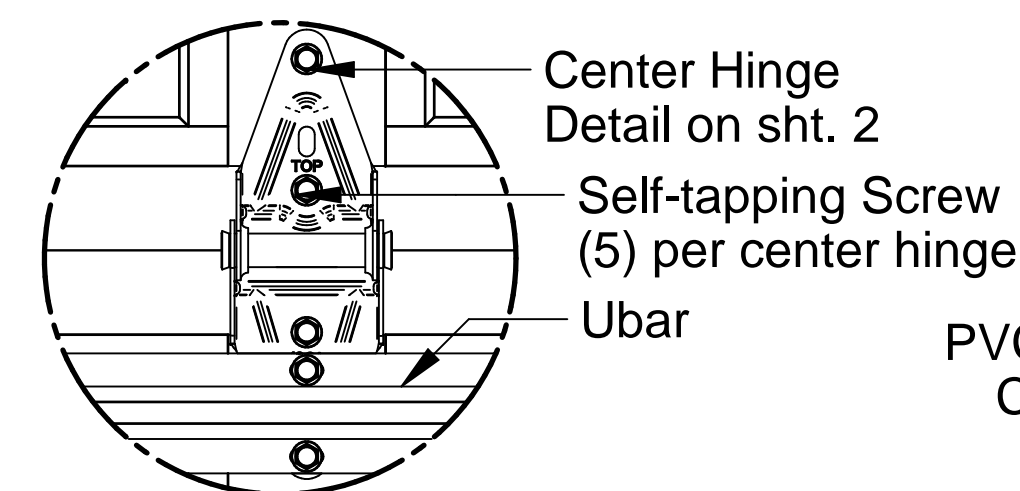
Corner Bracket Attachment



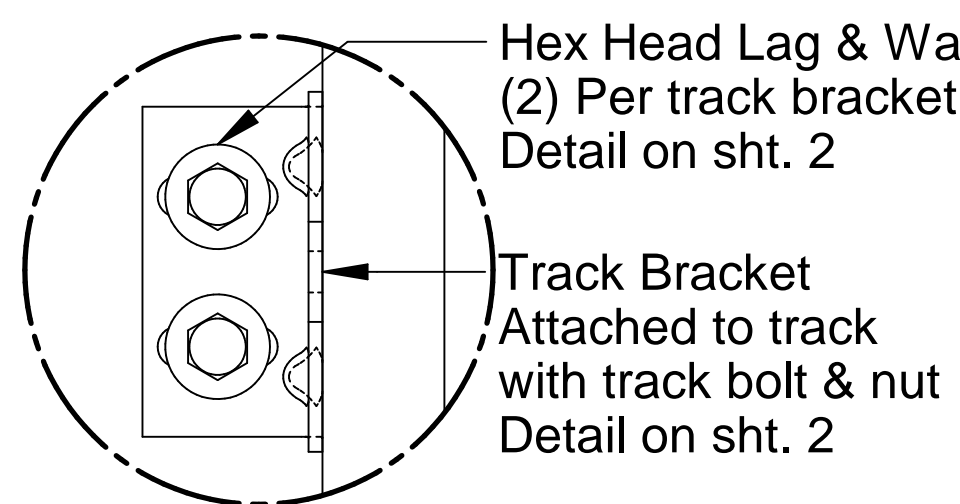
Top Fixture Attachment



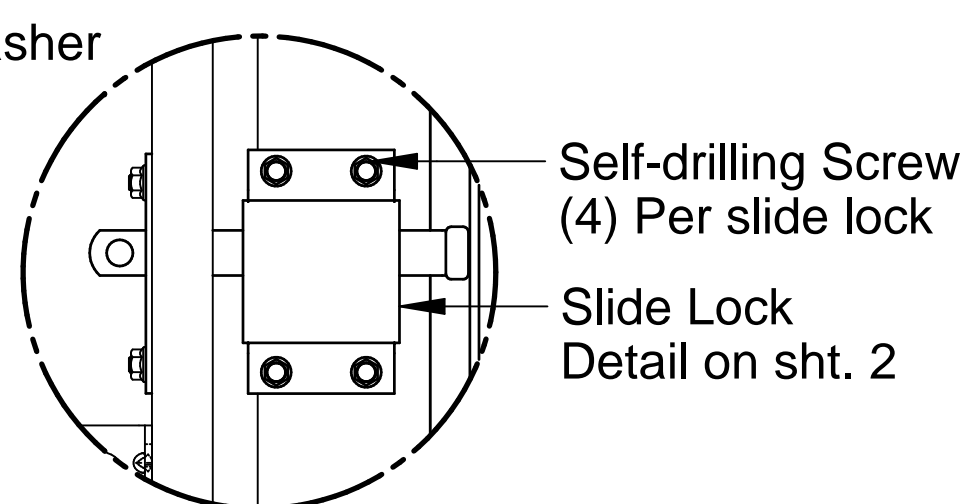
Edge Hinge Attachment



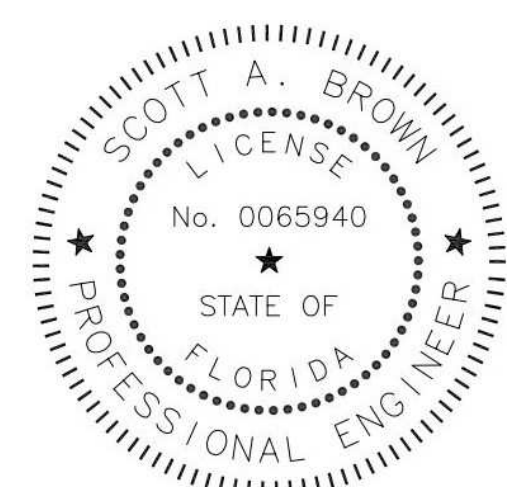
Center Hinge Attachment



Track Bracket Attachment
Alternate mounting
details on sht. 4



Slide Lock Attachment
Required on doors
without operators.

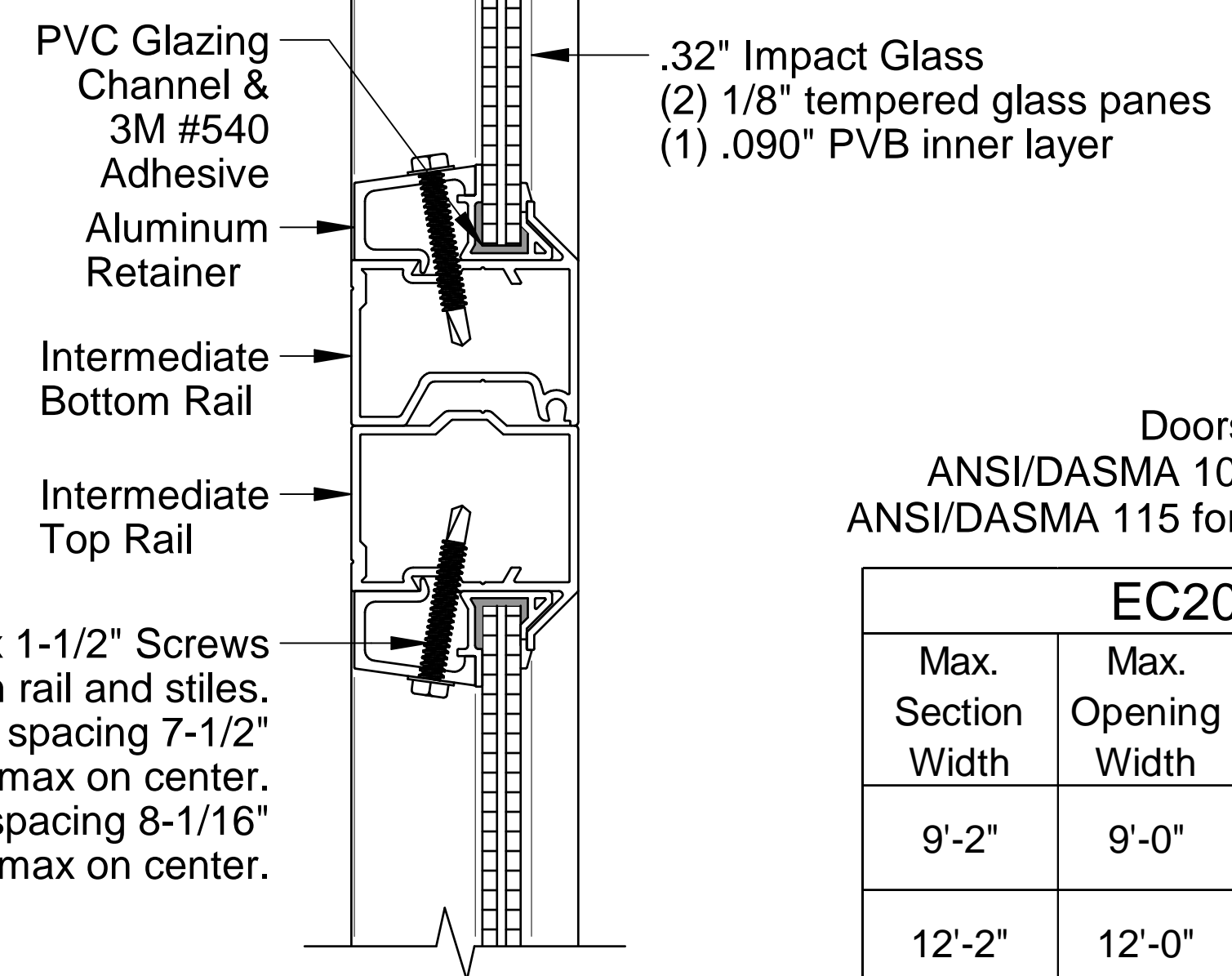


Scott A. Brown, P.E. Lic. No. 65940
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809 E. 2nd Street, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Wind loaded sectional doors are designed, tested, and sold by PSF. The AHJ of a given jobsite is responsible for determining the appropriate PSF.

Complies with the Wind Load requirements of the IBC/IRC 2021

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.



Section C-C

Doors tested per
ANSI/DASMA 108 for static air pressure
ANSI/DASMA 115 for impact and cyclic pressure

EC200 / EC224				
Max. Section Width	Max. Opening Width	Stiles	Design Load	
9'-2"	9'-0"	1	39.3	-44.4
12'-2"	12'-0"	2	20.1	-22.8

FL#20374

Scale: None			
Drawn by: J. Poitras			
Checked by: R. Frey			
Date: 05/02/24			
ECO: 9063.01			
Rev.	Description	ECO	Date
A	New release for production.	9063.01	05/02/24



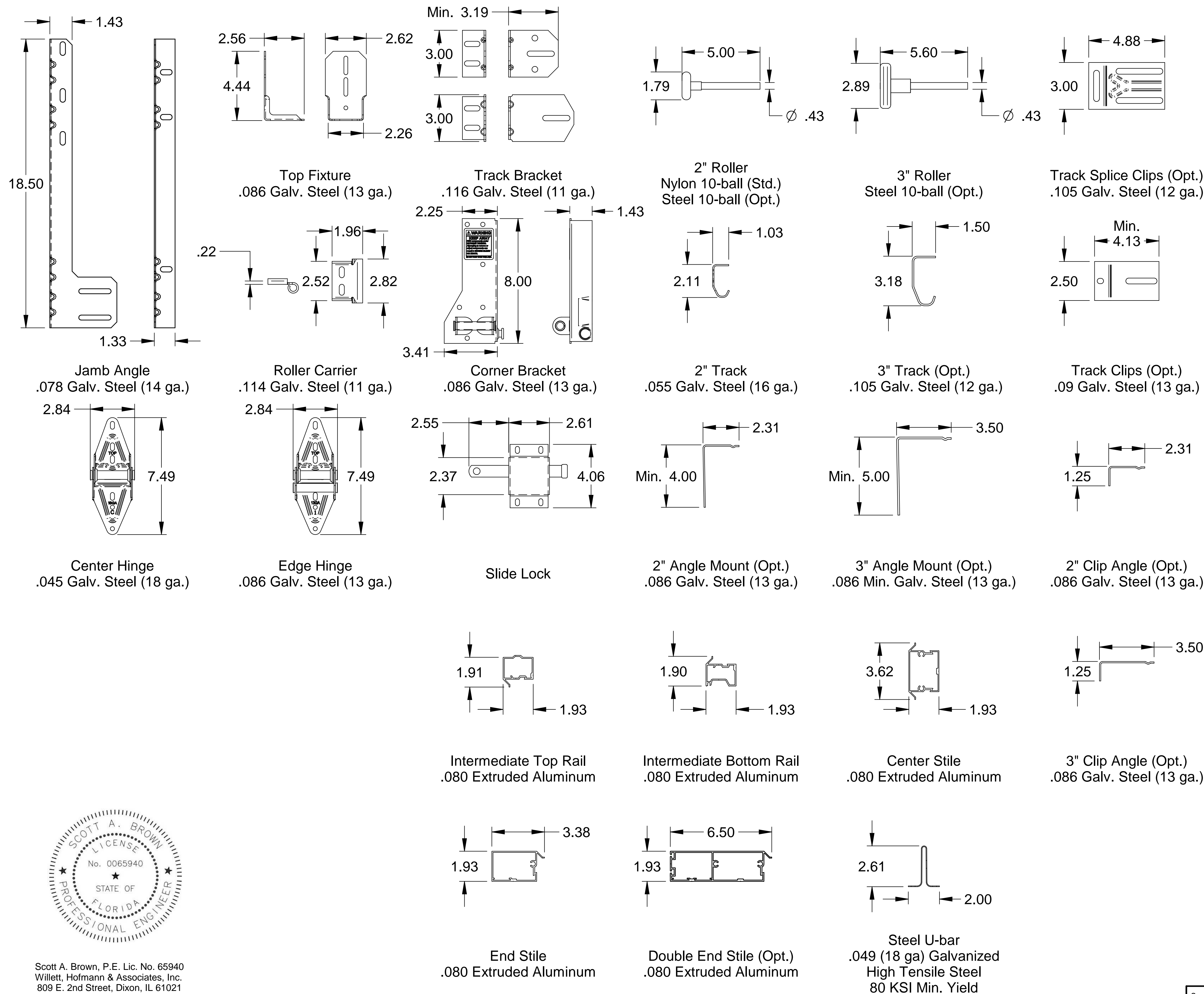
1101 East River Road
Dixon, IL 61021

Title: Spec, Wind Load
Raynor EnergyCore

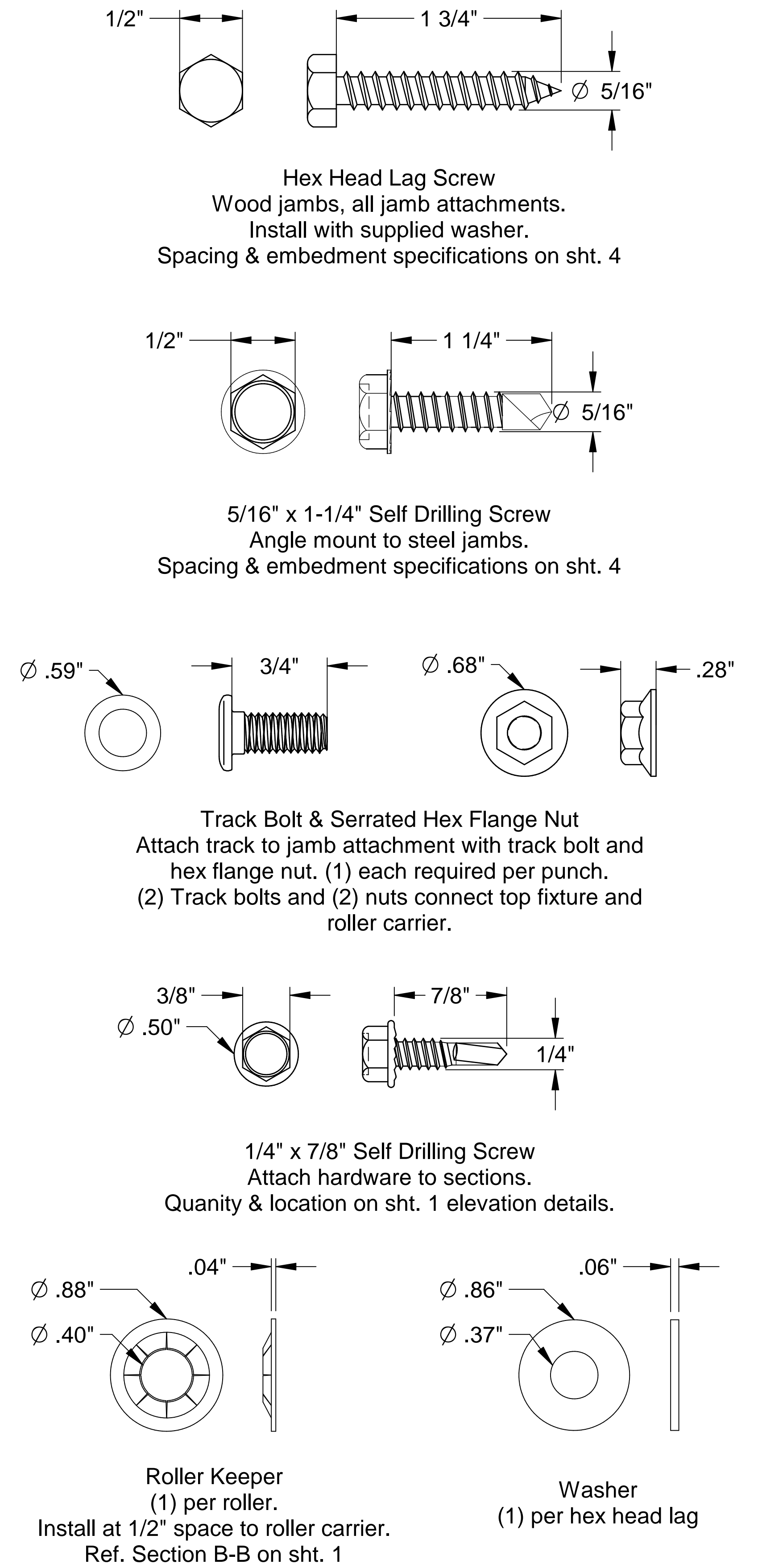
No. P-3408

Sheet 1 of 4
Rev A

Installation Hardware

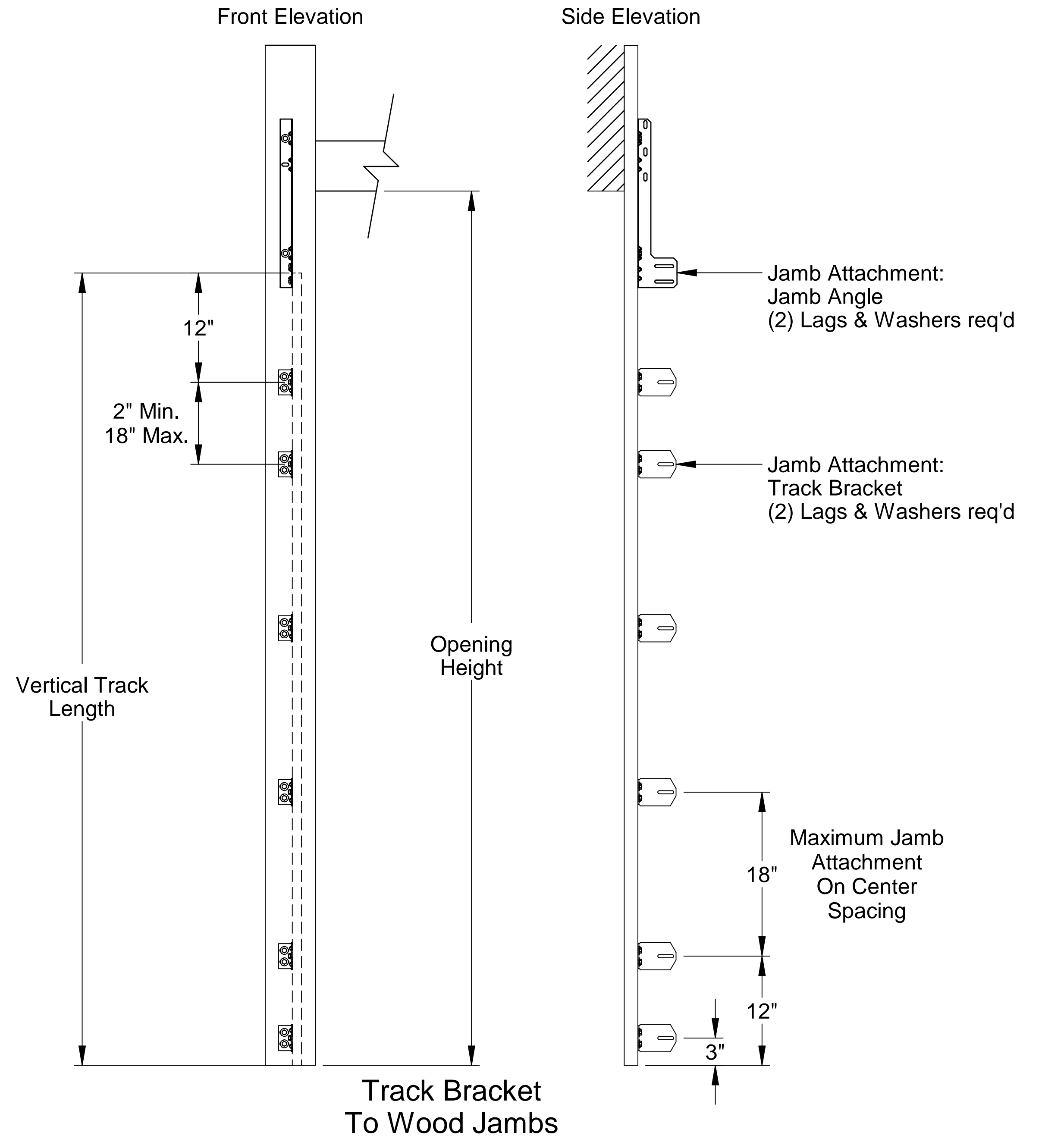
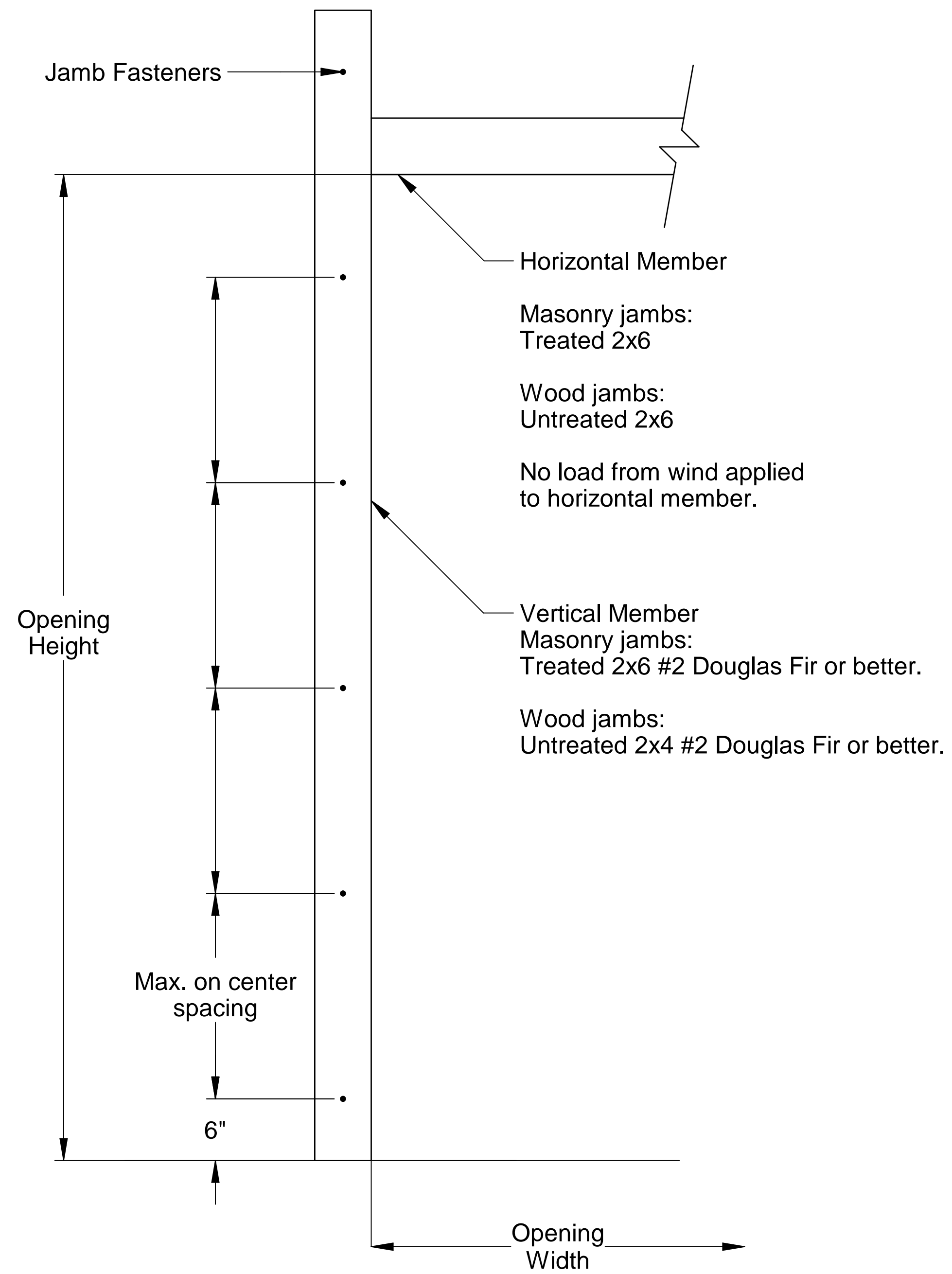


Fasteners & Small Hardware



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Willett, Hofmann & Associates, Inc.
809 E. 2nd Street, Dixon, IL 61021
FBPE CA Lic. No. 35415
Structural Adequacy for Wind Load

Scale: None	 1101 East River Road Dixon, IL 61021	Title: Spec, Wind Load Raynor EnergyCore	
Drawn by: J. Poitras		No. P-3408	Sheet 2
Checked by: R. Frey			Rev A
Date: 05/02/24		ECO: 9063.01	



2x6 Attachment to Structure						
Structure Type	Fastener Type	Minimum Embedment	Minimum Edge Distance	Minimum on Center Spacing	Maximum on Center Spacing	Allowable Tension Load
2500 PSI Min. Concrete	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	2.5	6"	24"	526
Southern Pine	3/8" x 3" Lag with 1-1/8" OD Washer	1.50"	1.50"	1.50"	24"	655
Spruce Pine Fir	3/8" x 3" LAG with 1-1/8" OD Washer	1.50"	1.50"	1.50"	24"	482

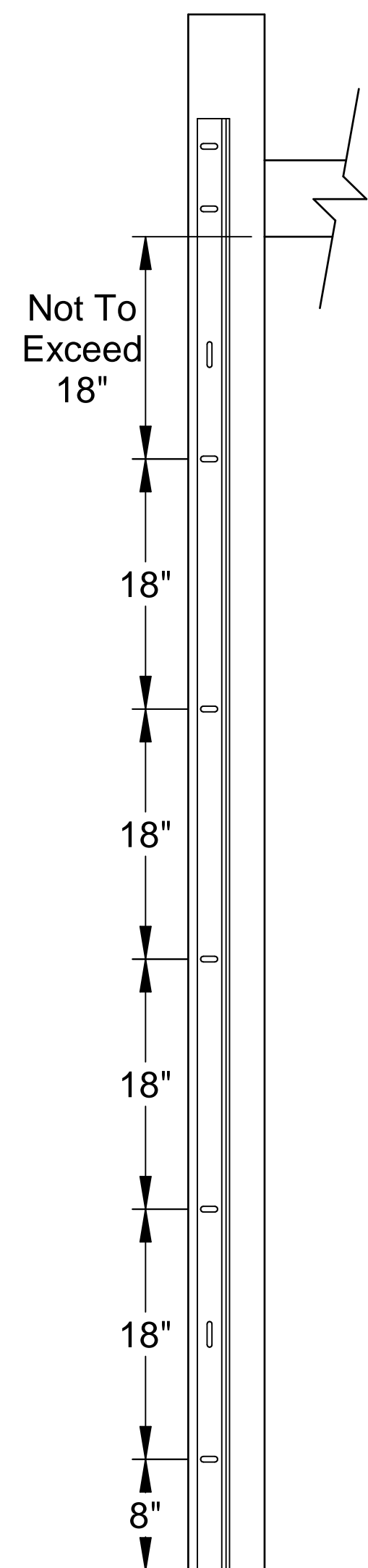
1. Maximum Positive Load per Jamb = (9'-2" x 39.3 PSF) / 2 = 181 lbs. per foot.
2. Maximum Negative Load per Jamb = (9'-2" x -44.4 PSF) / 2 = 204 lbs. per foot.
3. Design of the supporting structure shall be the sole responsibility of the building designer and shall be designed for the jamb loads listed in notes 1 and 2.
4. DASMA Technical Data Sheet TDS-161 may be used for alternate jamb attachments. Alternate jamb attachments may be used if approved by a registered Professional Engineer.
5. 3/8" diameter lag screws required 1/4" pilot hole and 1-1/2" minimum required distance.
6. Masonry fasteners by others.
7. Garage doors evaluated as attached to enclosed buildings.
8. Garage doors evaluated as components and cladding.



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 809 E. 2nd Street, Dixon, IL 61021
 FBPE CA Lic. No. 35415
 Structural Adequacy for Wind Load

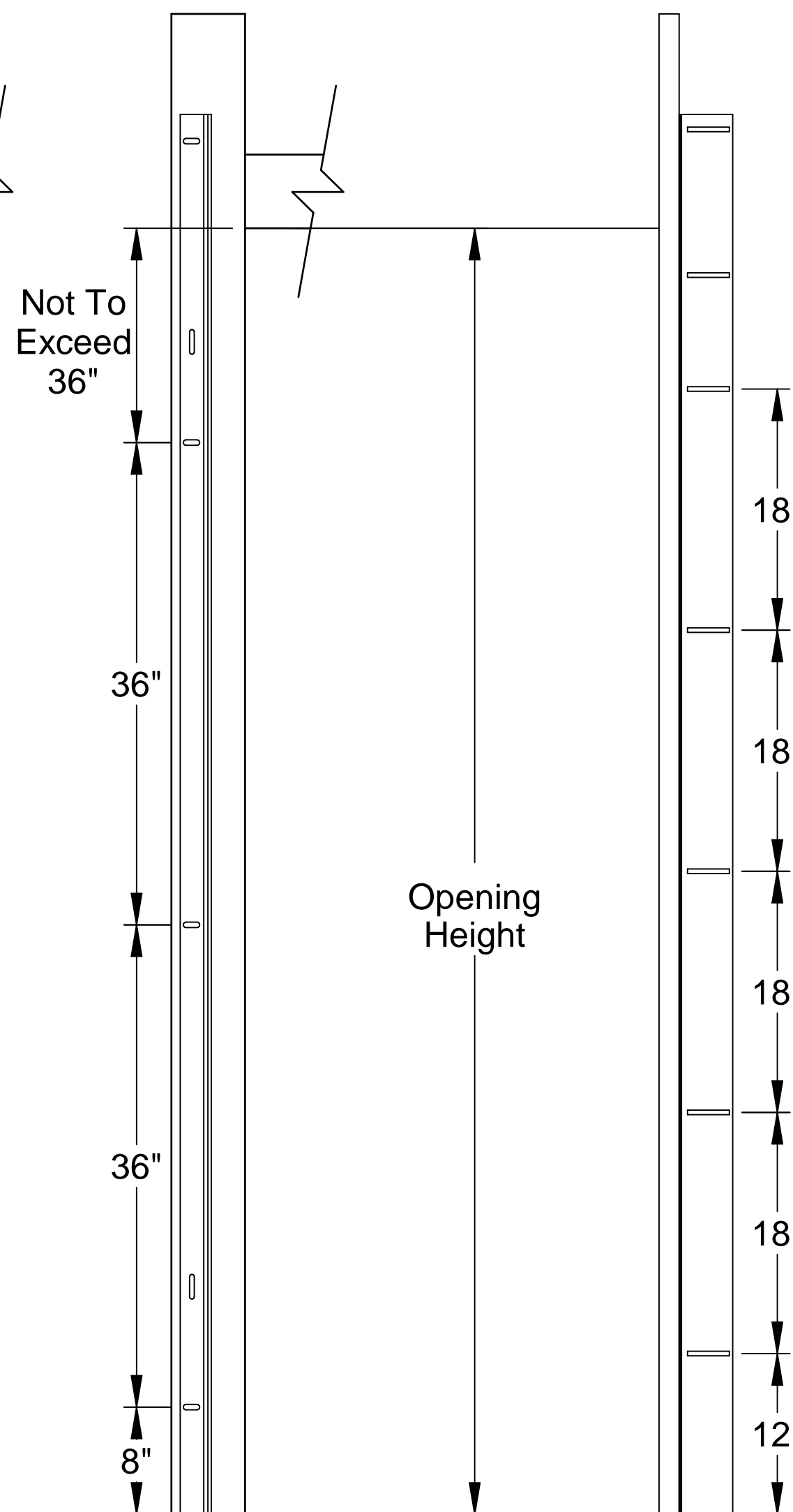
Scale: None	 1101 East River Road Dixon, IL 61021	Title: Spec, Wind Load Raynor EnergyCore	
Drawn by: J. Poitras		No. P-3408	Sheet 3
Checked by: R. Frey			
Date: 05/02/24		ECO: 9063.01	

Angle Mount
to Structure:
Wall Leg Spacing



Wood Jambs
CMU Jambs
18" O.C.

Angle Mount
to Structure:
Track Leg Spacing



Steel Jambs
Concrete Jambs
36" O.C.

Alternate Fastener
Charts

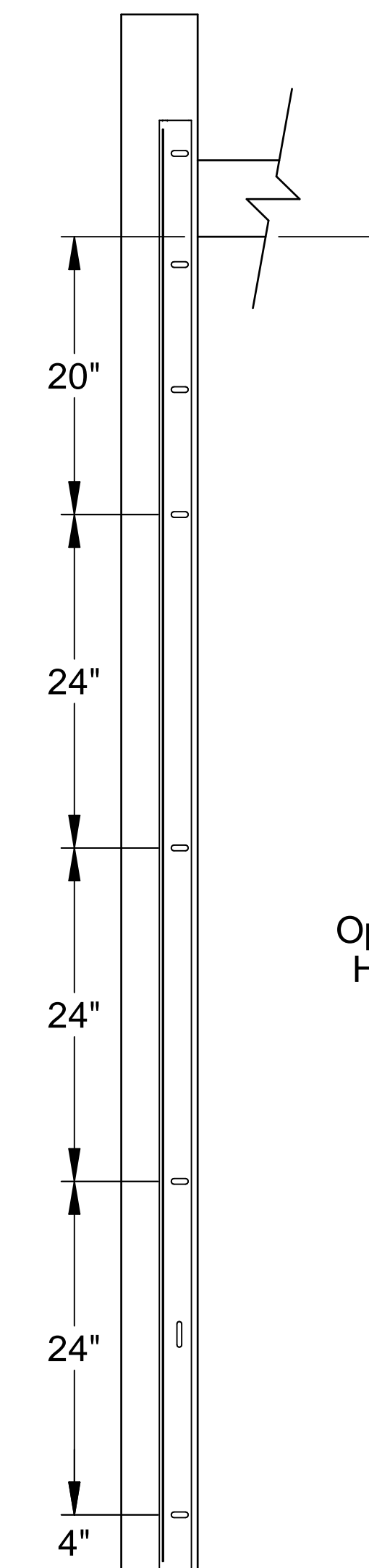
Angle Mount					
Jamb Type	Fastener Type	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Maximum on Center Spacing (in.)	Allowable Tension Load (lbs.)
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	36"	893
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	36"	687
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	36"	651
Steel	5/16" x 1" SAE J78, Min. AISI 1022 with 5/16" Washer	3/16"	1-1/2"	36"	971
Wood	5/16" x 1-3/4" Lag with 5/16" Washer	1-1/2"	1-1/2"	18"	352
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	18"	480

Alternate fasteners may be used if approved by a registered Professional Engineer.

Clip Angle					
Jamb Type	Fastener Type	Minimum Embedment (in.)	Minimum Edge Distance (in.)	Maximum on Center Spacing (in.)	Allowable Tension Load (lbs.)
2500 PSI Min. Concrete	3/8" ITW Trubolt	2-1/2"	2-1/2"	24"	893
	1/4" Tapcon+ (Plus) with 1-1/8" OD Washer	2"	1-5/8"	24"	687
	1/4" x 2-5/8" Screw-Bolt+ with 9/16" OD Washer	2-1/2"	1-1/2"	24"	651
Steel	5/16" x 1" SAE J78, Min. AISI 1022 with 5/16" Washer	3/16"	1-1/2"	24"	971
Wood	5/16" x 1-3/4" Lag with 5/16" Washer	1-1/2"	1-1/2"	24"	352
Grout Filled CMU Block	3/8" Simpson Titen HD	2-3/4"	4"	24"	480

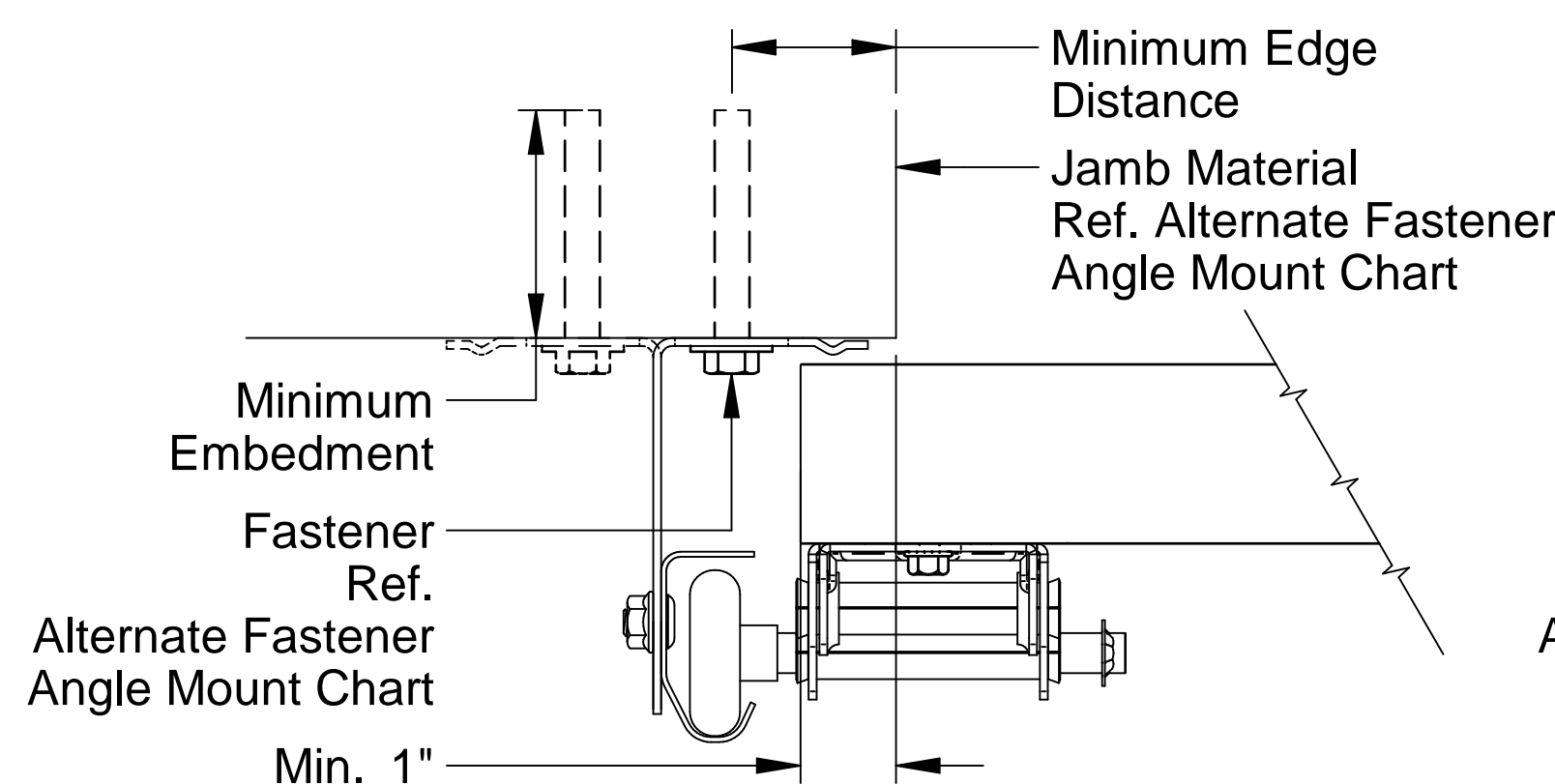
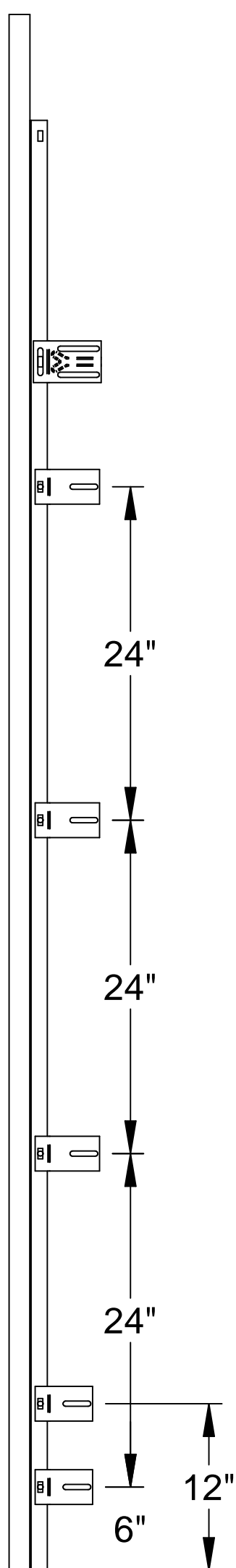
Alternate fasteners may be used if approved by a registered Professional Engineer.

Clip Angle
to Structure:
Wall Leg Spacing

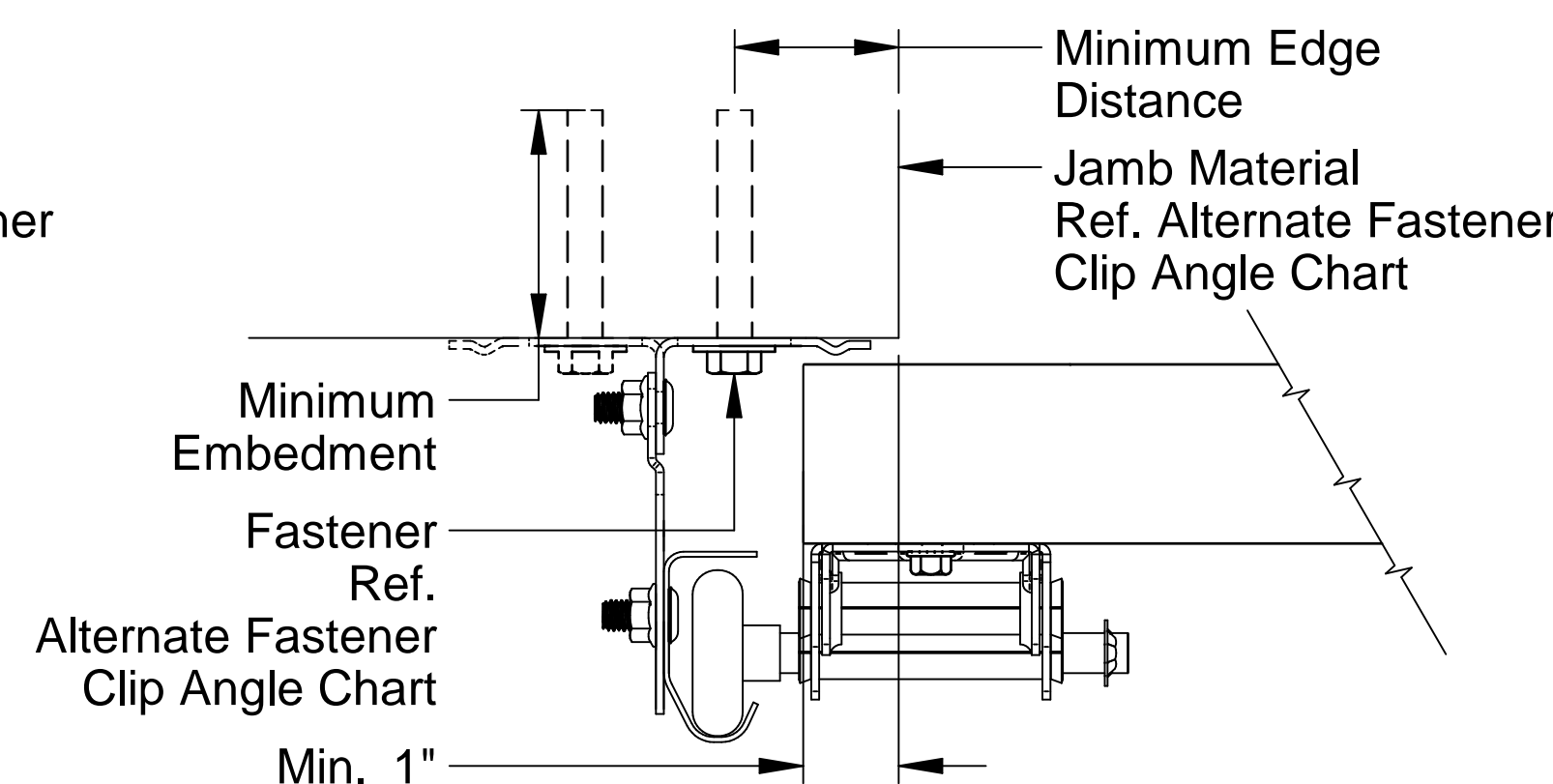


All Jambs
24" O.C. Supplied

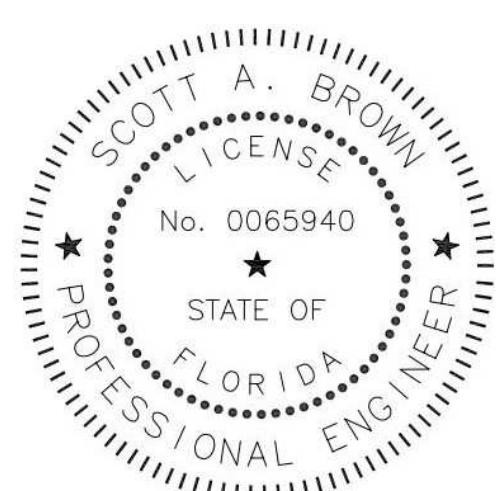
Clip Angle
to Structure:
Track Leg Spacing




Angle Mount To Structure
2" Angle Shown
Leg-in solid, leg-out dashed
3" Available



Clip Angle To Structure
2" Angle Shown
Leg-in solid, leg-out dashed
3" Available



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Structural Adequacy for Wind Load

Scale: None	 1101 East River Road Dixon, IL 61021	Title: Spec, Wind Load Raynor EnergyCore	
Drawn by: J. Poitras		No. P-3408	Sheet 4
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