

School of Freshwater Sciences, Bid Package 3 - Laboratory Addition  
 University of Wisconsin, Milwaukee, WI  
 Shop Drawings for Section 086300, Custom Skylights and 086200, Unit Skylights



PRODUCT DATA:

Design Data: DL=16psf, SL=30psf, WL=90mph, Cat. B, max deflection for spans up to 13'-6" =L/175 and for spans over 13'-6" = lesser of either L/240+1/4" or amount that restricts edge deflection of individual glazing lites to 3/4". See attached structural calculations.

Canopy Glazing: 9/16" HS clear glass laminated with .060 PVB interlayer.

Metal Finish: Extruded aluminum members and flashings to have a Duranar XL 3-coat fluoropolymer finish with clear topcoat, UC51131XL "Silver". Confirmation paint samples submitted by mail.

Warranty: Finish, and Glass, including leakage, 10 years. State of WI Window Guarantee form. Canopy, 10 years. Sample warranty attached.

Product Approval: Wisconsin Solar Design is an approved manufacturer per addendum #5.

Test Reports: Thermal, water and air tests available at [wisconsinsolardesign.com/skylightspecs.html](http://wisconsinsolardesign.com/skylightspecs.html)

Installer Certification: Installers are full-time employees of WSD and are certified by the manufacturer.

LEED: See attached.

NOTES:

- WSD will field measure completed steel structure for the canopy.

SHEET INDEX

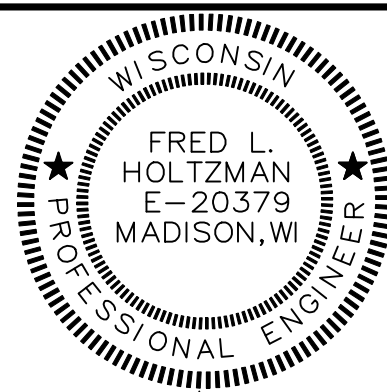
- 1 Title Page
- 2 Canopy Plan & Elevation
- 3 Canopy Sections
- 4-6 Canopy Details

<u>MANAGING ARCHITECT:</u> Continuum Architects and Planners 228 South 1st St, Ste. 301 Milwaukee, WI 53204	<u>DESIGN ARCHITECT:</u> Bohlin Cywinski Jackson 307 Fourth Avenue Suite 1300 Pittsburgh, PA 15222	<u>GENERAL CONTRACTOR:</u> J.P. Cullen & Sons, Inc. 13040 West Lisbon Rd. Brookfield, WI 53005
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**DRAWING APPROVAL:**  
We have reviewed these drawings and approve their use for construction of the skylights. Any comments or suggestions have been added to the drawings.

Architect:  
Continuum Architects & Planners  
name \_\_\_\_\_  
title \_\_\_\_\_

General Contractor:  
J.P. Cullen & Sons, Inc.  
name \_\_\_\_\_  
title \_\_\_\_\_



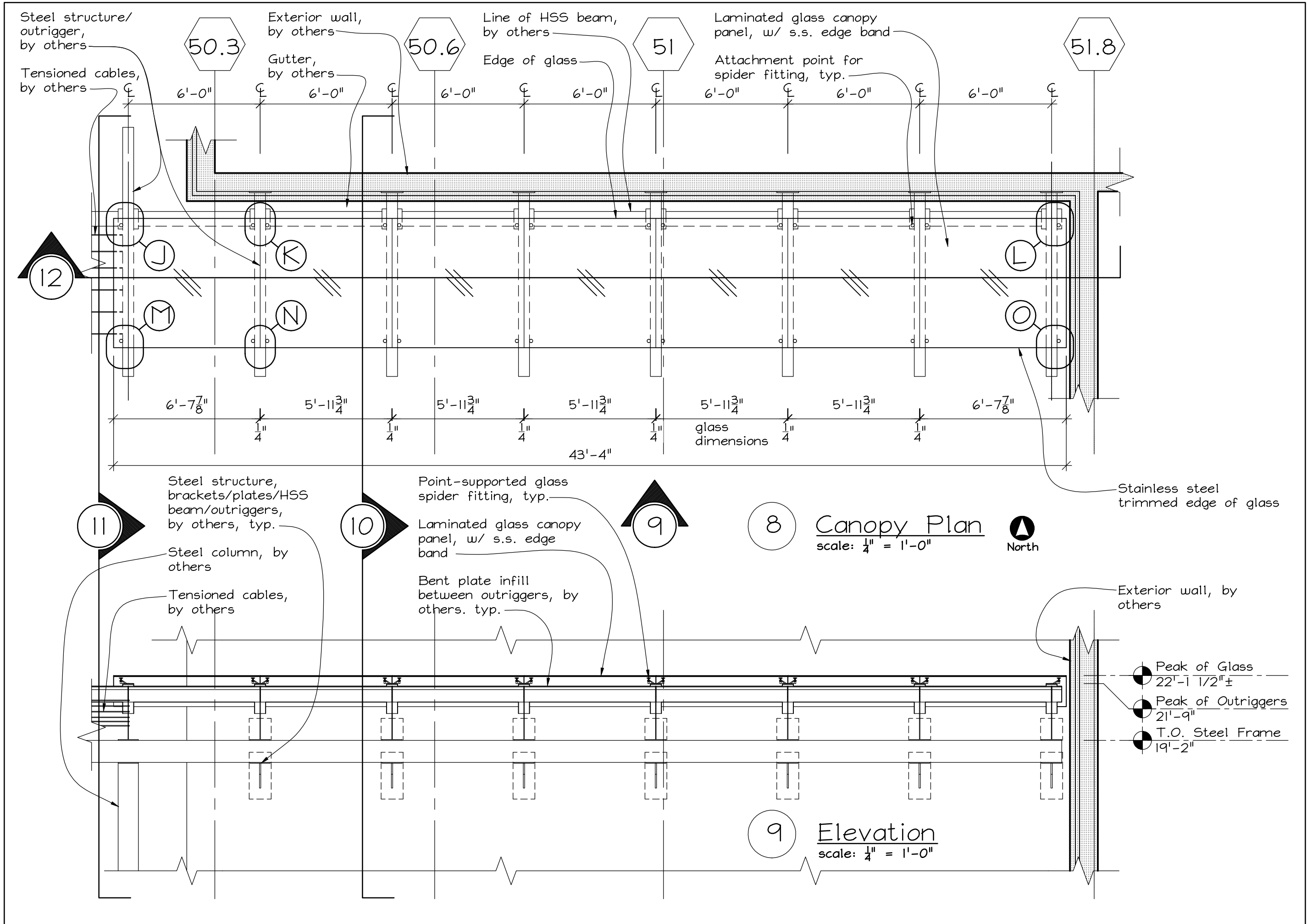
Drawings by:  
James Thomack, WSD

Manufacturer/Installer:  
**WISCONSIN SOLAR DESIGN**  
 6349 Briarcliff Ln., Middleton, WI 53562

Project:  
 School of Freshwater Sciences  
 UW-Milwaukee, Div Proj #10E3H-03  
 600 E. Greenfield Ave.  
 Milwaukee, WI 53204

Architect:  
 Continuum Architects + Planners  
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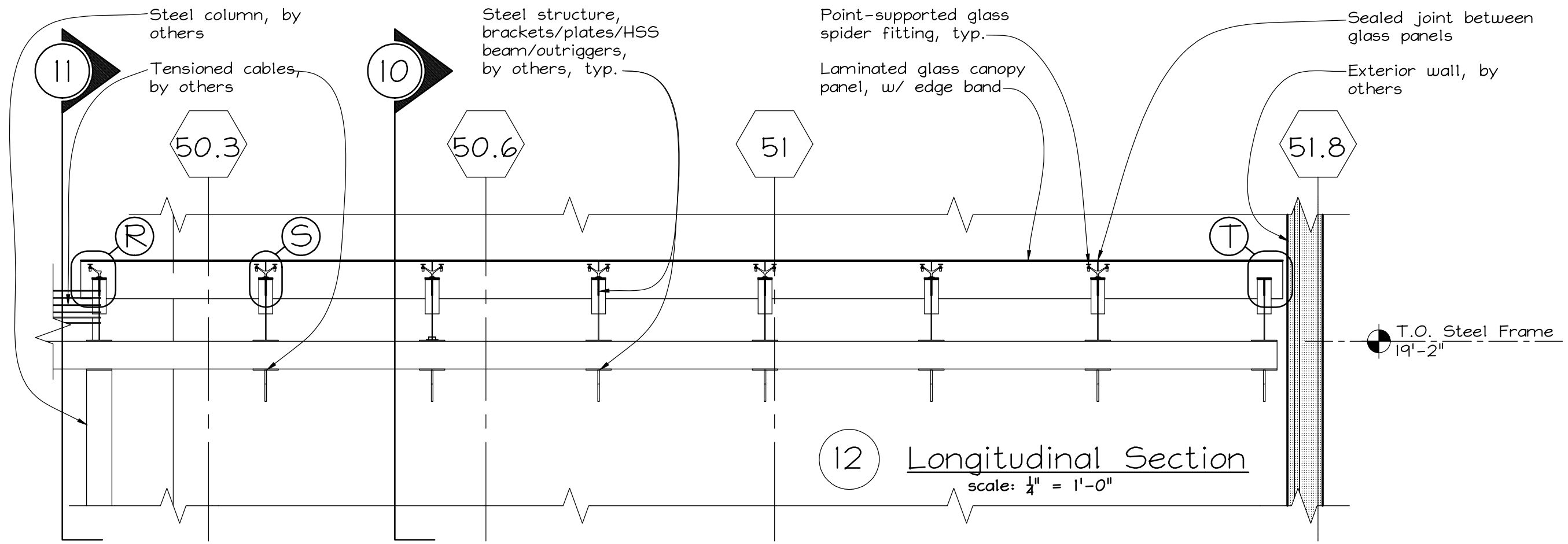
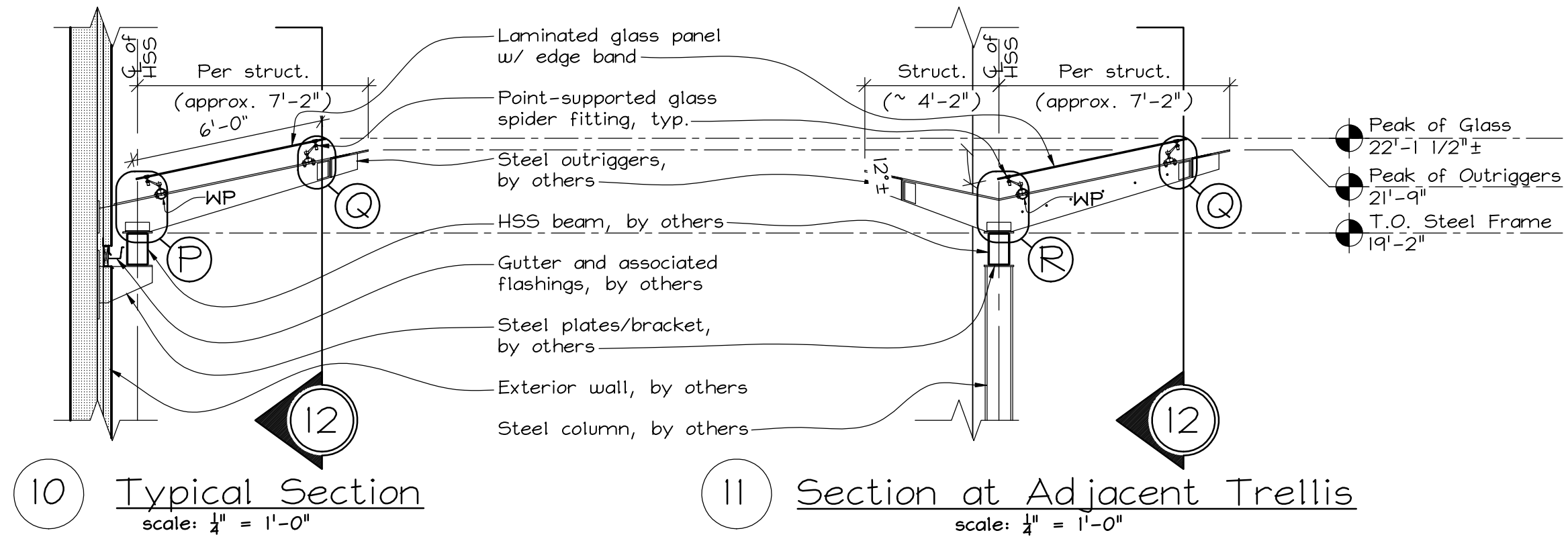
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 6/5/13



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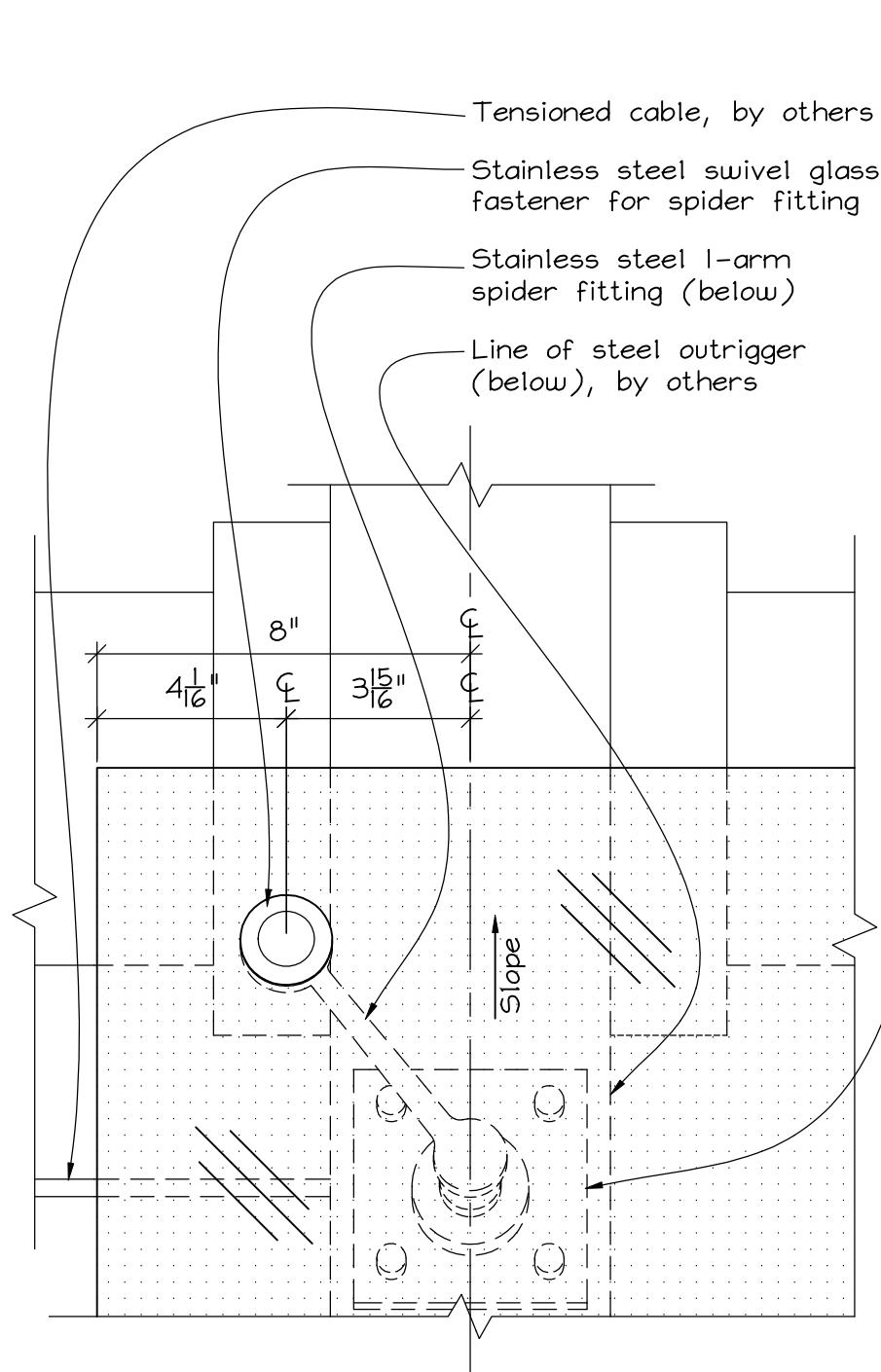


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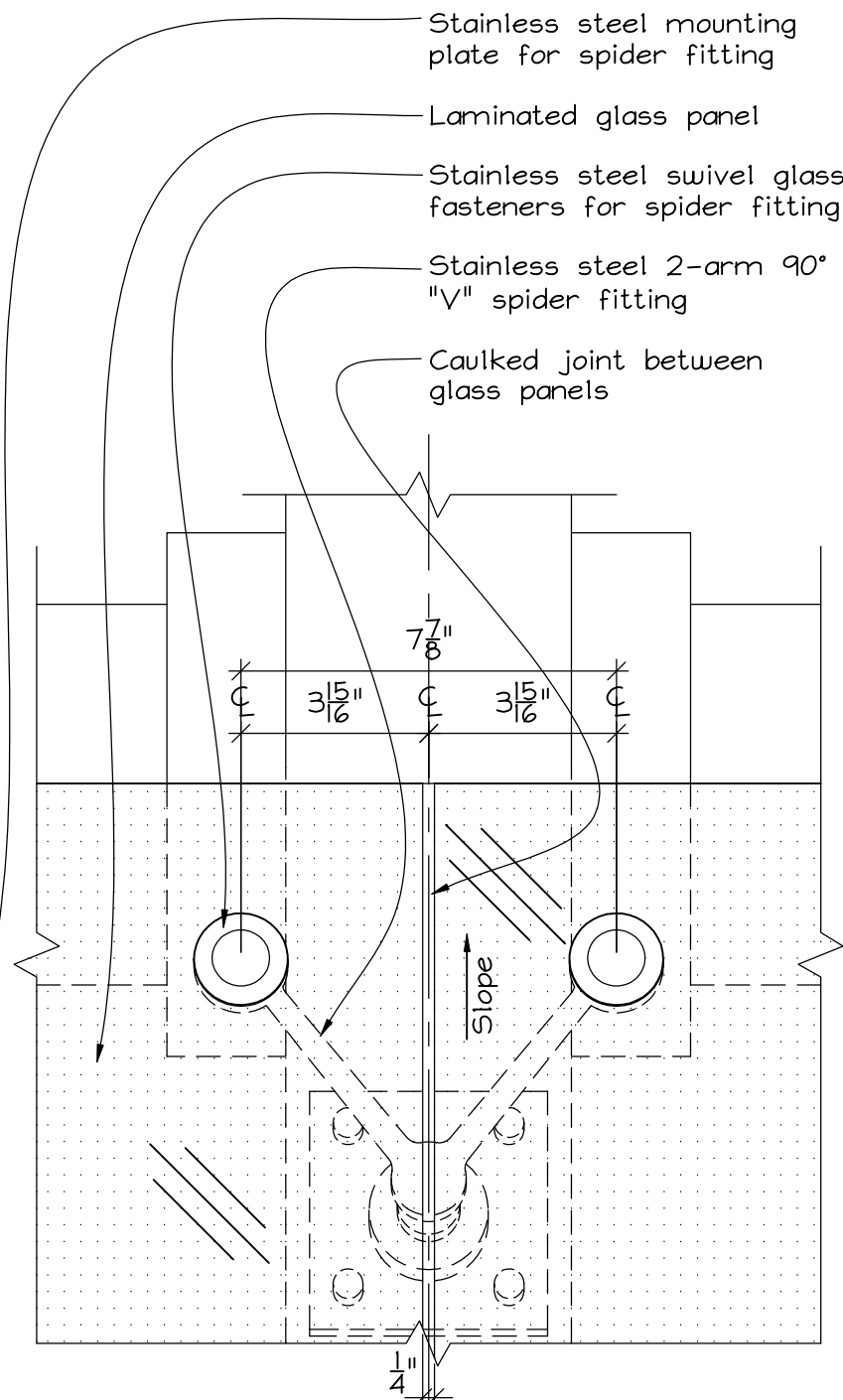
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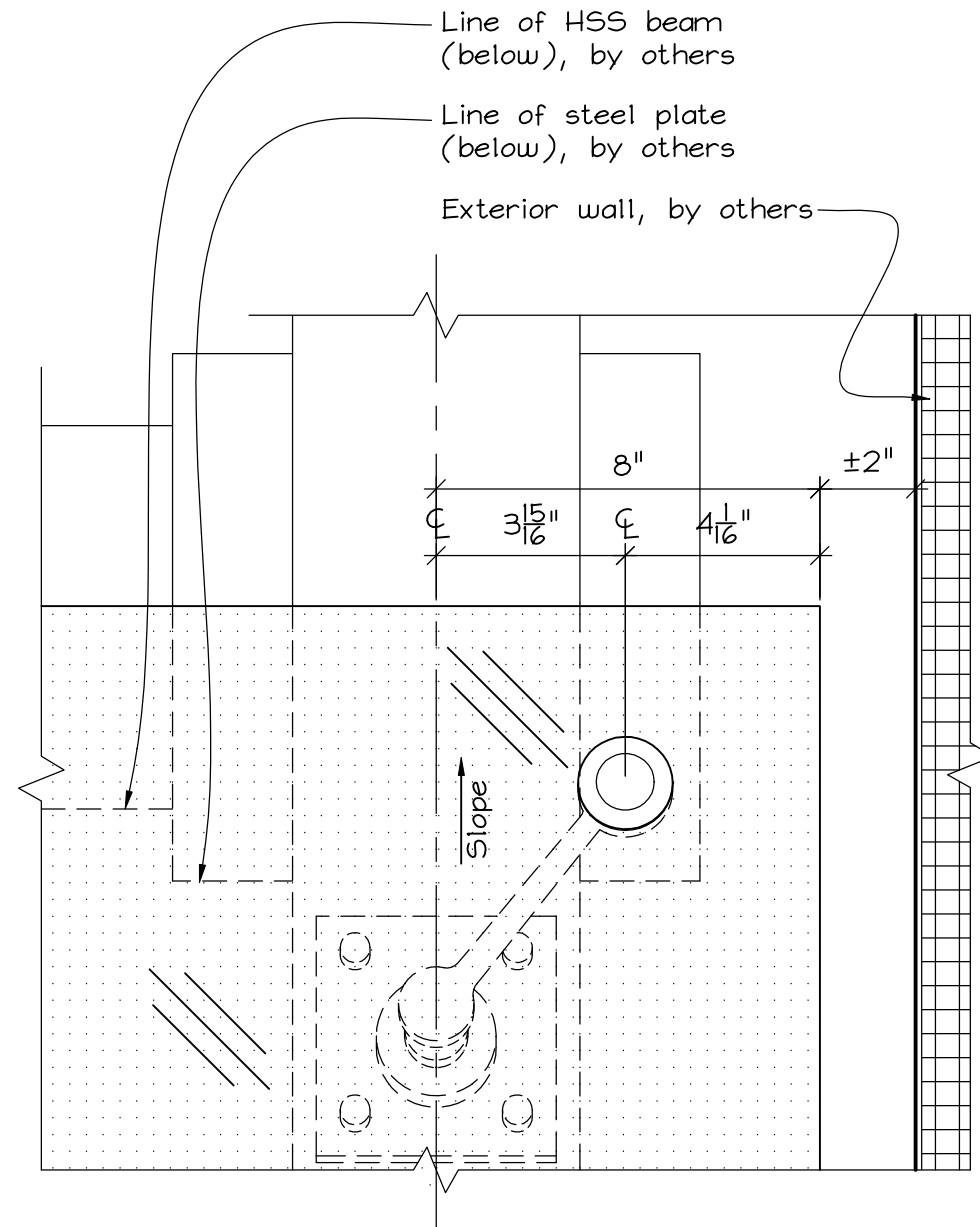
Detail at Spider Fitting  
Scale: 3"=1'-0"

- Tensioned cable, by others
- Stainless steel swivel glass fastener for spider fitting
- Stainless steel 1-arm spider fitting (below)
- Line of steel outrigger (below), by others



Detail at Spider Fitting  
Scale: 3"=1'-0"

- Stainless steel mounting plate for spider fitting
- Laminated glass panel
- Stainless steel swivel glass fasteners for spider fitting
- Stainless steel 2-arm 90° "V" spider fitting
- Caulked joint between glass panels



Detail at Spider Fitting  
Scale: 3"=1'-0"

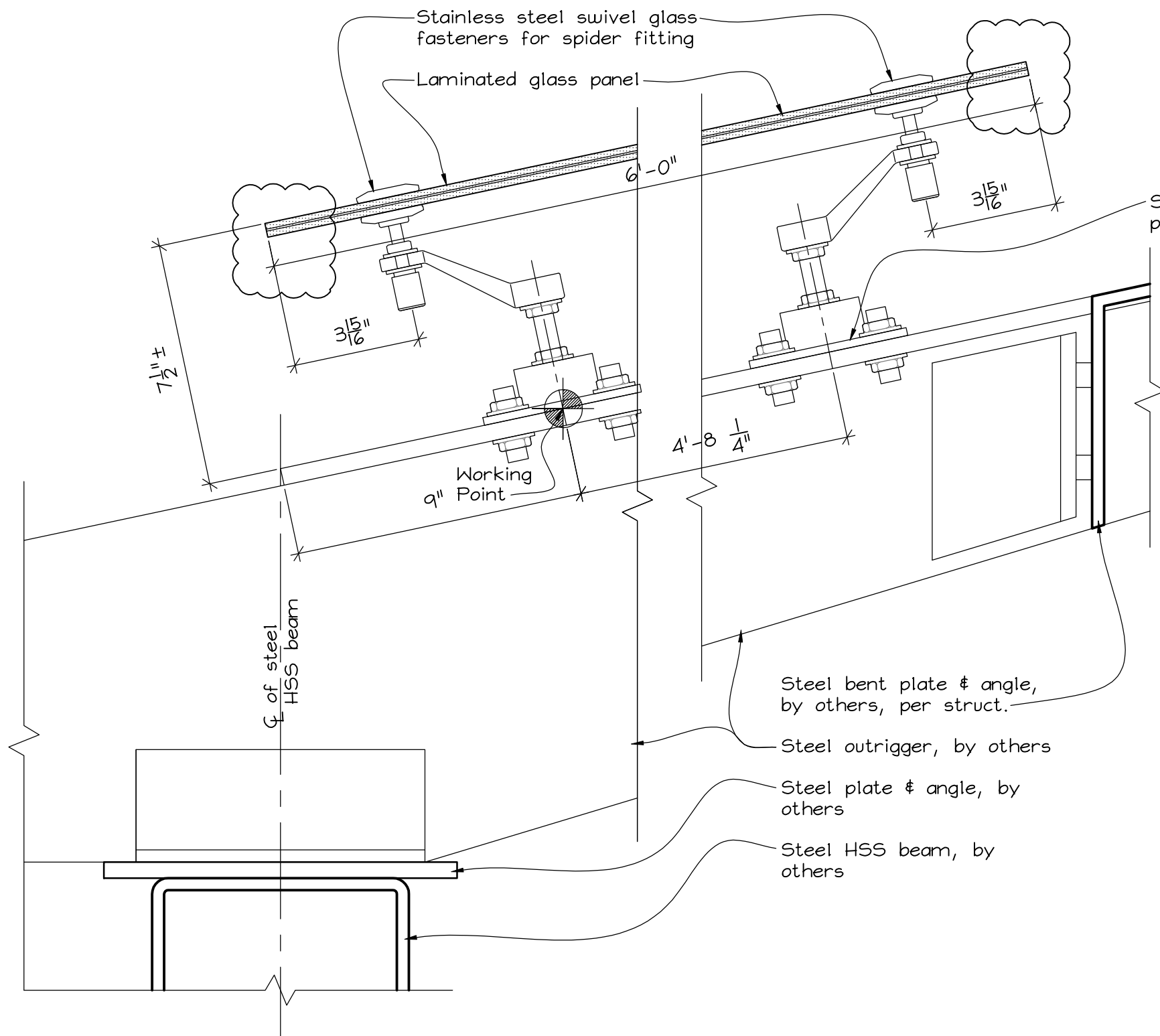
- Line of HSS beam (below), by others
- Line of steel plate (below), by others
- Exterior wall, by others

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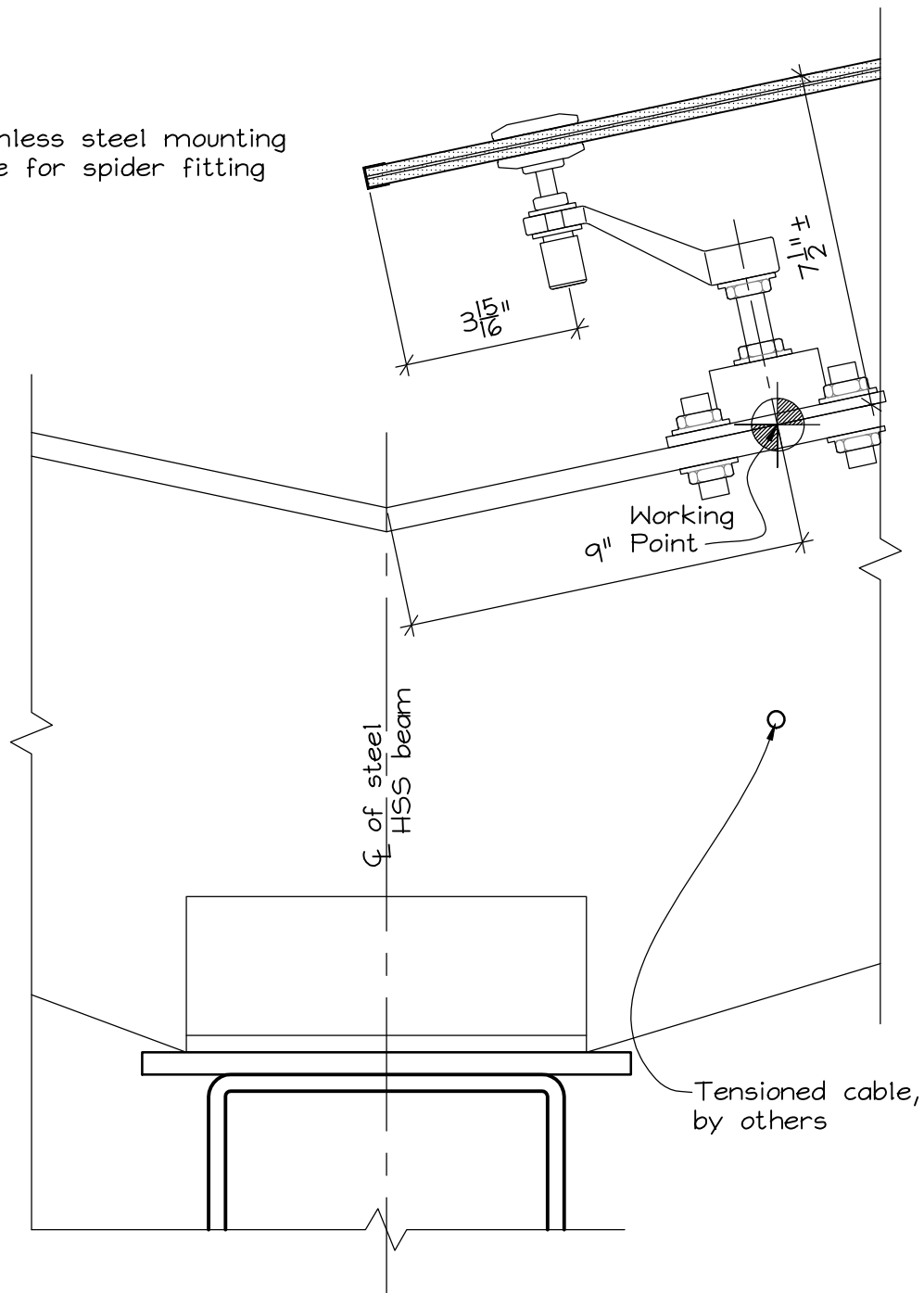
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P  
Typical Detail  
at Sill  
 Scale: 3"=1'-0"

Q  
Typical Detail  
at Ridge  
 Scale: 3"=1'-0"



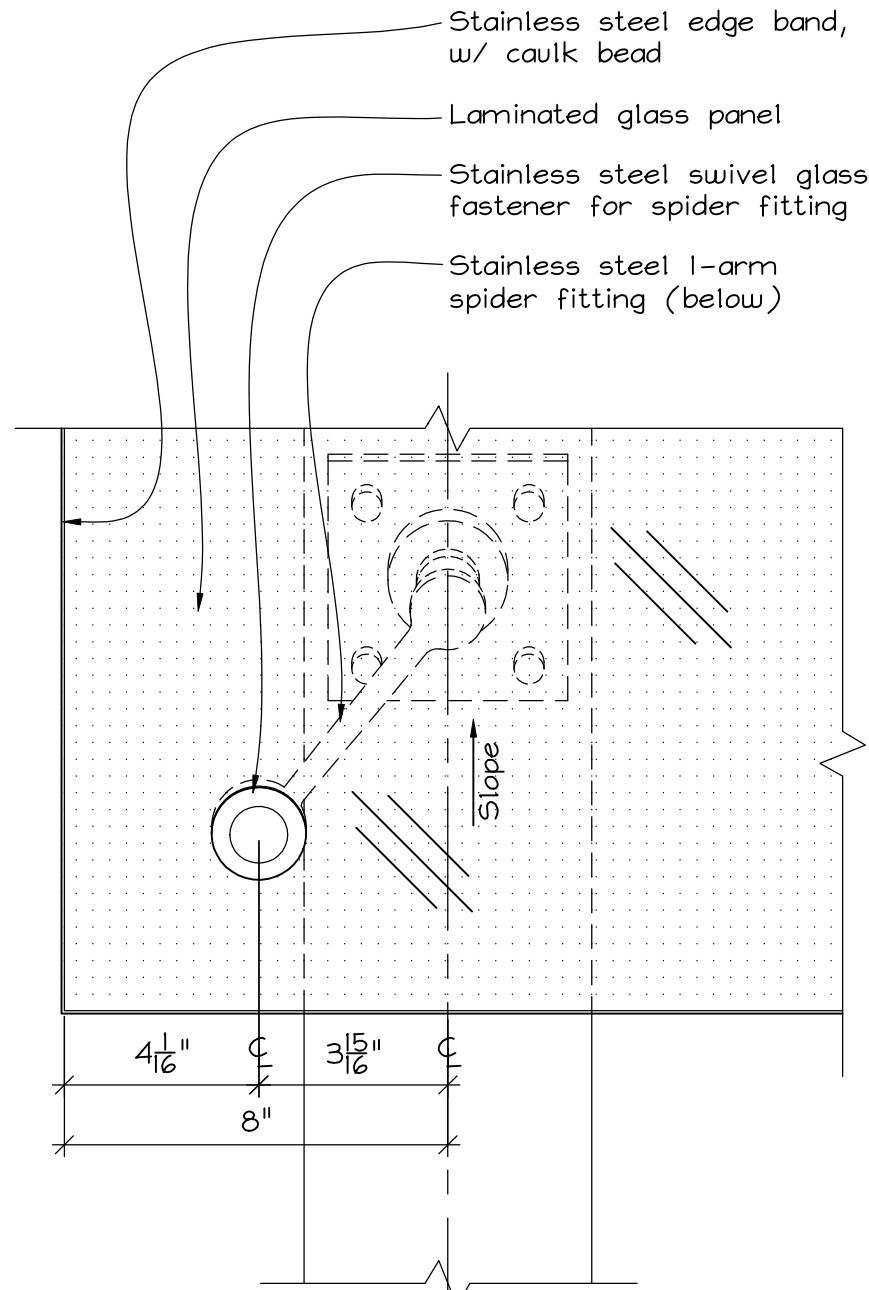
R  
Detail at  
Westernmost Sill  
 Scale: 3"=1'-0"

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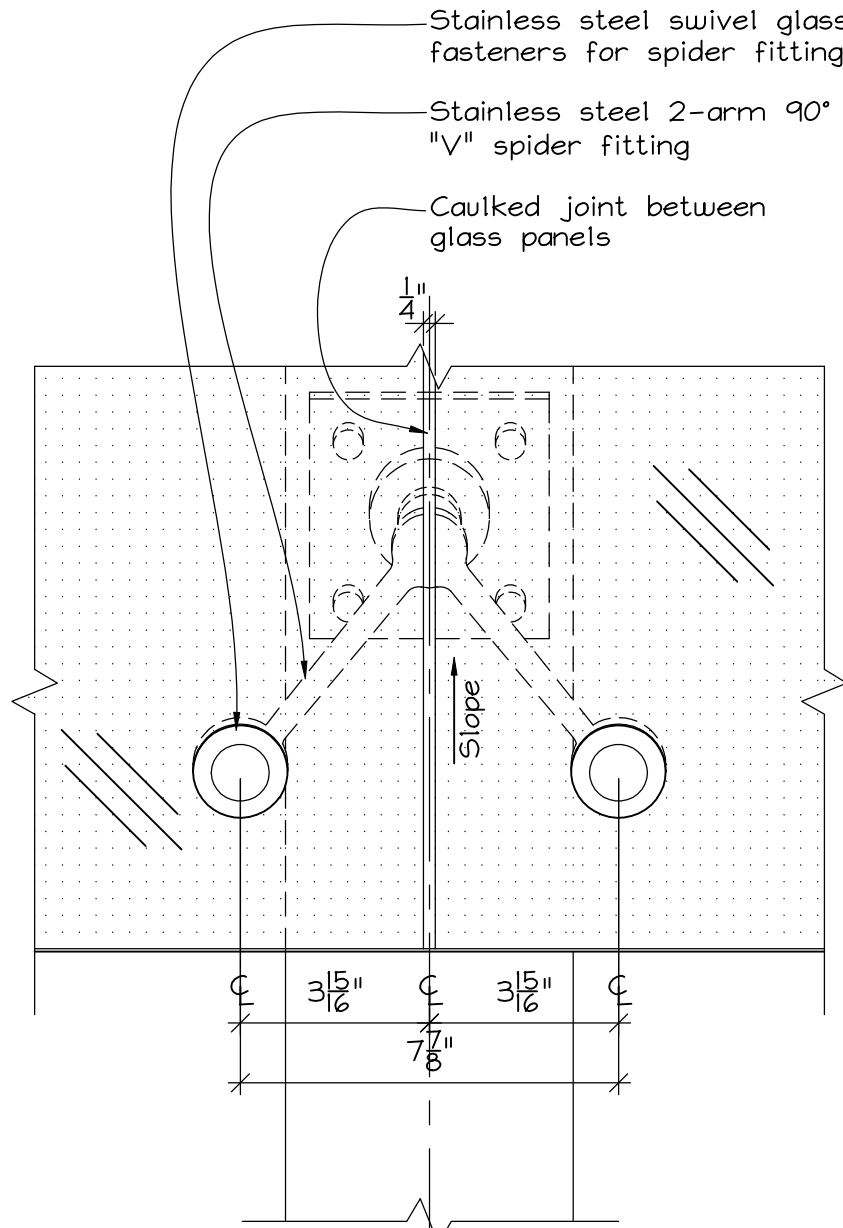
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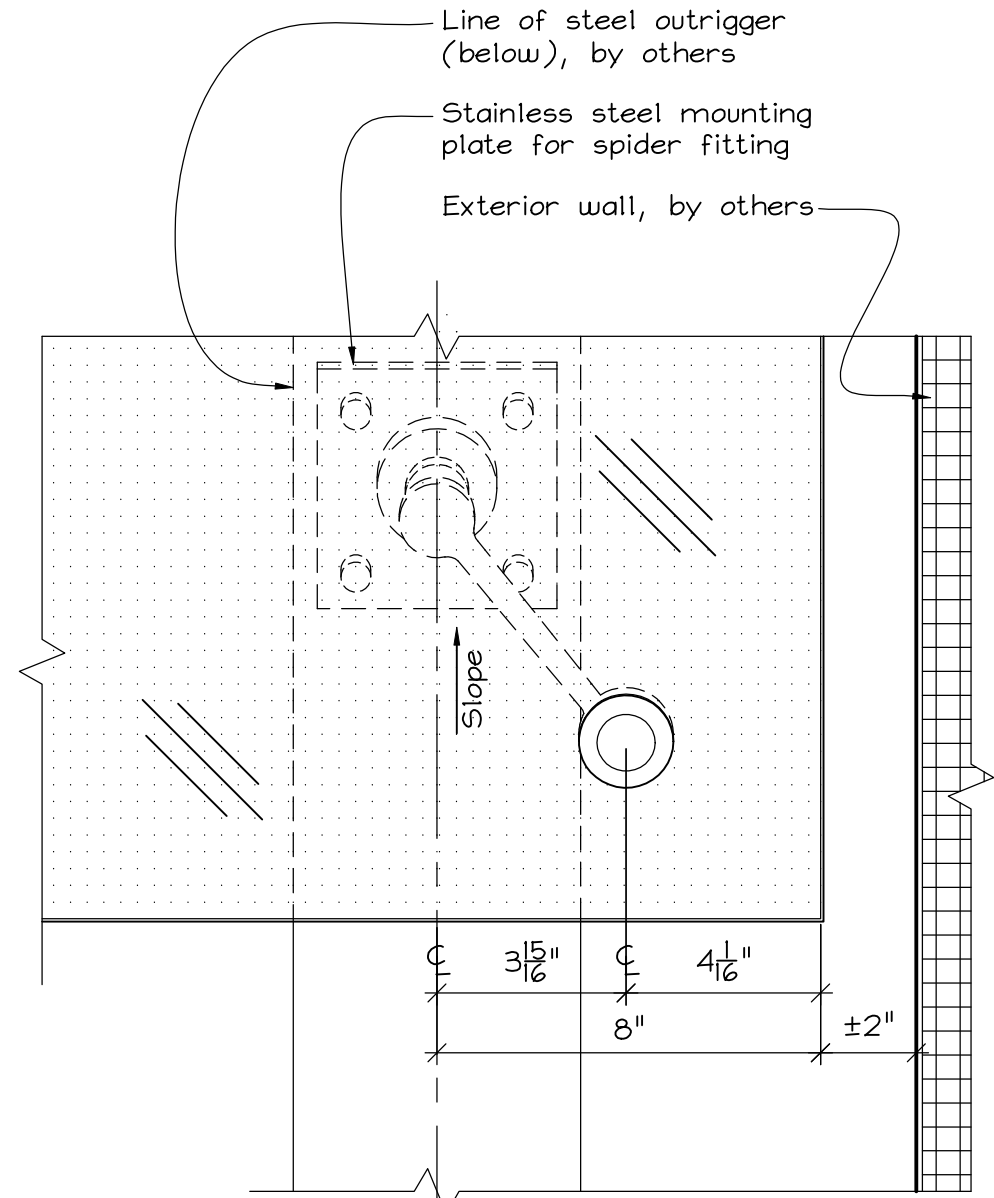
**M**  
Detail at Spider Fitting  
 Scale: 3"=1'-0"

- Stainless steel edge band, w/ caulk bead
- Laminated glass panel
- Stainless steel swivel glass fastener for spider fitting
- Stainless steel 1-arm spider fitting (below)



**N**  
Detail at Spider Fitting  
 Scale: 3"=1'-0"

- Stainless steel swivel glass fasteners for spider fitting
- Stainless steel 2-arm 90° "V" spider fitting
- Caulked joint between glass panels



**O**  
Detail at Spider Fitting  
 Scale: 3"=1'-0"

- Line of steel outrigger (below), by others
- Stainless steel mounting plate for spider fitting
- Exterior wall, by others

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