



SEA-MW

STRUCTURAL ENGINEERS
ASSOCIATION
OF METROPOLITAN WASHINGTON

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Meeting Minutes - #212

December 2, 2020

Meeting conducted online via Zoom

Meeting Agenda:

11:30 am – Business meeting called to order by Scot Stewart

12:15 pm – Presentation: Diaphragms

1:15 pm – Adjourn

Item 1 – Meeting minutes approval for 9/23 and 10/21.

Item 2 – Financial Committee: Joseph Sharkey

- MO Balance - \$67,727
- YMG Balance - \$1,060
- The transition of treasurer is still in place.
- The budget has been impacted due to the lack of dinner meeting structure and difference in Gala.

Item 3 - Membership Committee – David

- There are currently 79 member firms.
- Twelve firms are overdue on their dues.

Item 4 – Gala Committee – Ben Gunden

- Due to COVID, the Gala will be known as the “Awards Exhibition” this year.
- We will rent out the district architecture center in Washington, DC for an entire week. It will be set up similarly to an art exhibit.
- Our group contractors, architects, and the public will be encouraged to attend
- Planning and the opportunity to submit projects, etc. will begin in January

Item 5– Next Month’s Topic:

- The date has been moved from January 20th to January 13th due to the inauguration.

“STRUCTURAL ENGINEERS WORKING TOGETHER TO IMPROVE THE BUSINESS OF STRUCTURAL ENGINEERING”

- Today's presentation is Diaphragm design

Program ---

- Diaphragm 101
 - The presenters are Rose Rodriguez and Joe Sharkey
 - Due to low seismic requirements in our area, these loads are not often analyzed in depth.
 - The discussion began with basics, including definitions and types of diaphragms
 - Diaphragms are solid, horizontal elements that transmit loads to vertical loads
 - Six types of diaphragms were listed. There are three classifications – rigid, semi-rigid, and flexible
 - Three components of diaphragms were discussed
 - Design requirements were discussed.
 - Examples were given of diaphragm failure
 - Different provisions and codes were reviewed
 - Historical analysis techniques were reviewed
 - Modern design techniques were reviewed including simple 2D idealizations and 3-D modeling
 - Four design examples were viewed.