

ENTRY FORM



DVASE 2021 Excellence in Structural Engineering Awards Program

PROJECT CATEGORY (check one):

Buildings under \$5M		Buildings Over \$100M	
Buildings \$5M - \$15M		Other Structures Under \$1M	
Buildings \$15M - \$40M	✓	Other Structures Over \$1M	
Buildings \$40M - \$100M		Single Family Home	

Approximate construction cost of facility submitted:	\$40 Million
Name of Project:	100 Hoboken
Location of Project:	Jersey City, NJ
Date construction was completed (M/Y):	11/2020
Structural Design Firm:	Mulhern + Kulp Engineering
Affiliation:	All entries must be submitted by DVASE member firms or members.
Architect:	Minno & Wasko
General Contractor:	BNE Real Estate Group

Company Logo (insert .jpg in box below)



MULHERN+KULP
RESIDENTIAL STRUCTURAL ENGINEERING

300 Brookside Ave, Building 4 ▶ Ambler, PA 19002
p 215-646-8001 ▶ mulhernkulp.com

Important Notes:

- Please .pdf your completed entry form and email to bsagusti@barrhorstman.com.
- Please also email separately 2-3 of the best .jpg images of your project, for the slide presentation at the annual virtual presentation and for the DVASE website. Include a brief (approx. 4 sentences) summary of the project for the DVASE Awards Presentation with this separate email.

- Provide a concise project description in the following box (one page maximum). Include the significant aspects of the project and their relationship to the judging criteria.

The 100 Hoboken Ave project consists of a 4 story, 137 unit apartment building situated over a reinforced concrete podium slab. Framed levels above the podium are primarily wood construction. The development includes a number of amenities which necessitated unique structural solutions to accomplish the architectural intent. Due to the presence of construction debris and organic fill, the building was founded on pile caps and grade beams supported on steel piles.

The amenities located throughout the building required careful coordination to accommodate the required ceiling heights and maximize space. The inclusion of a golf simulator room, theater, multistory lobby and a fitness center required the use of steel transfer girders in order to maximize ceiling heights and minimize the quantity of structural columns that would otherwise detract from the functionality of the amenity spaces.

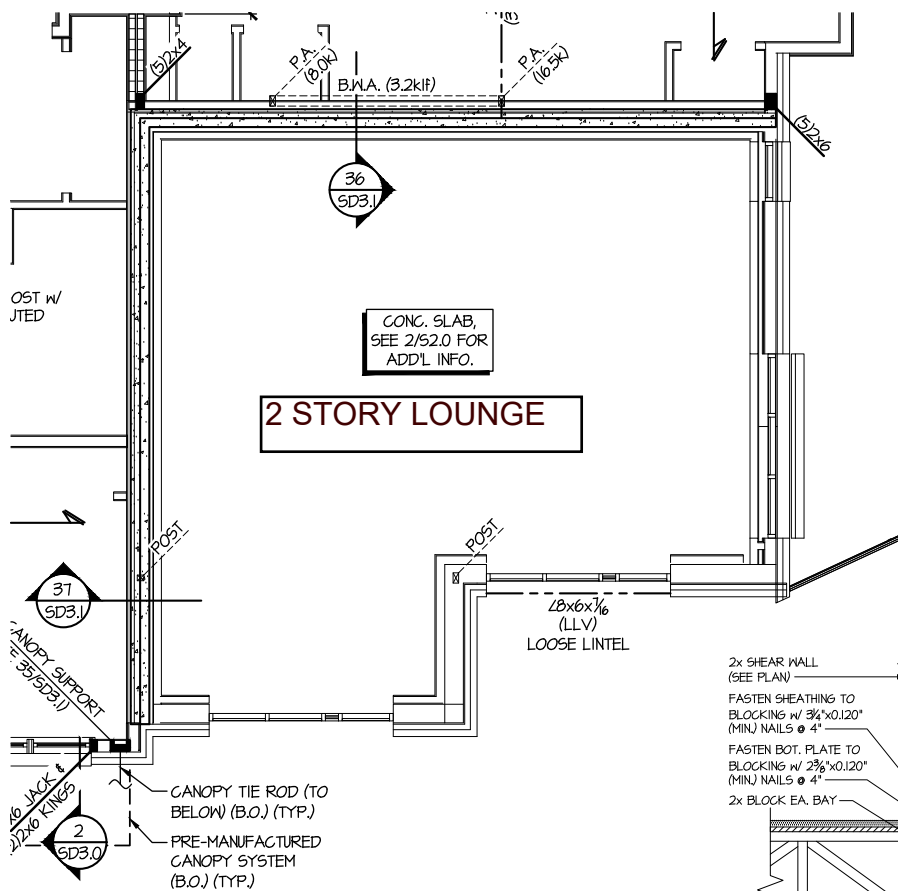
A transfer girder was required in order to frame out a 2 story lounge area located at the first floor. However, due to limited ceiling heights within the first floor, a traditional concrete girder located below the podium slab was not acceptable as it would interrupt the ceiling below. In order to maximize usable ceiling height at the first floor, a transfer girder was integrated into the 2nd floor concrete wall of the lounge area, essentially forming a beam whose depth is the full height of the second floor.

The development site required the inclusion of a stormwater detention basin. In order to maximize the use of the existing site plan, the detention basin was located below the building foundation system. The limited height of the stormwater basin constrained the use of traditional formwork to construct the lid of the basin. Due to accessibility issues associated with formwork removal, a proprietary "Cupolex" system was used to form the lid of the detention basin.

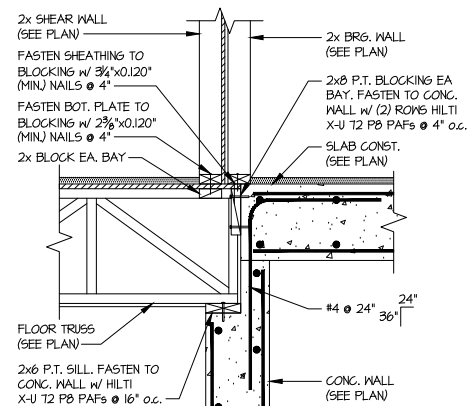
- The following 5 pages (maximum) can be used to portray your project to the awards committee through photos, renderings, sketches, plans, etc...







PLAN VIEW: 2 STORY
LOUNGE SPACE



RESIDENTIAL
UNIT

BENT DNLS TO MATCH
SIZE & SPA OF VERT.
REINF. LAP WALL REINF.
48 BAR DIAMETERS

CONC. SLAB
(SEE PLAN)

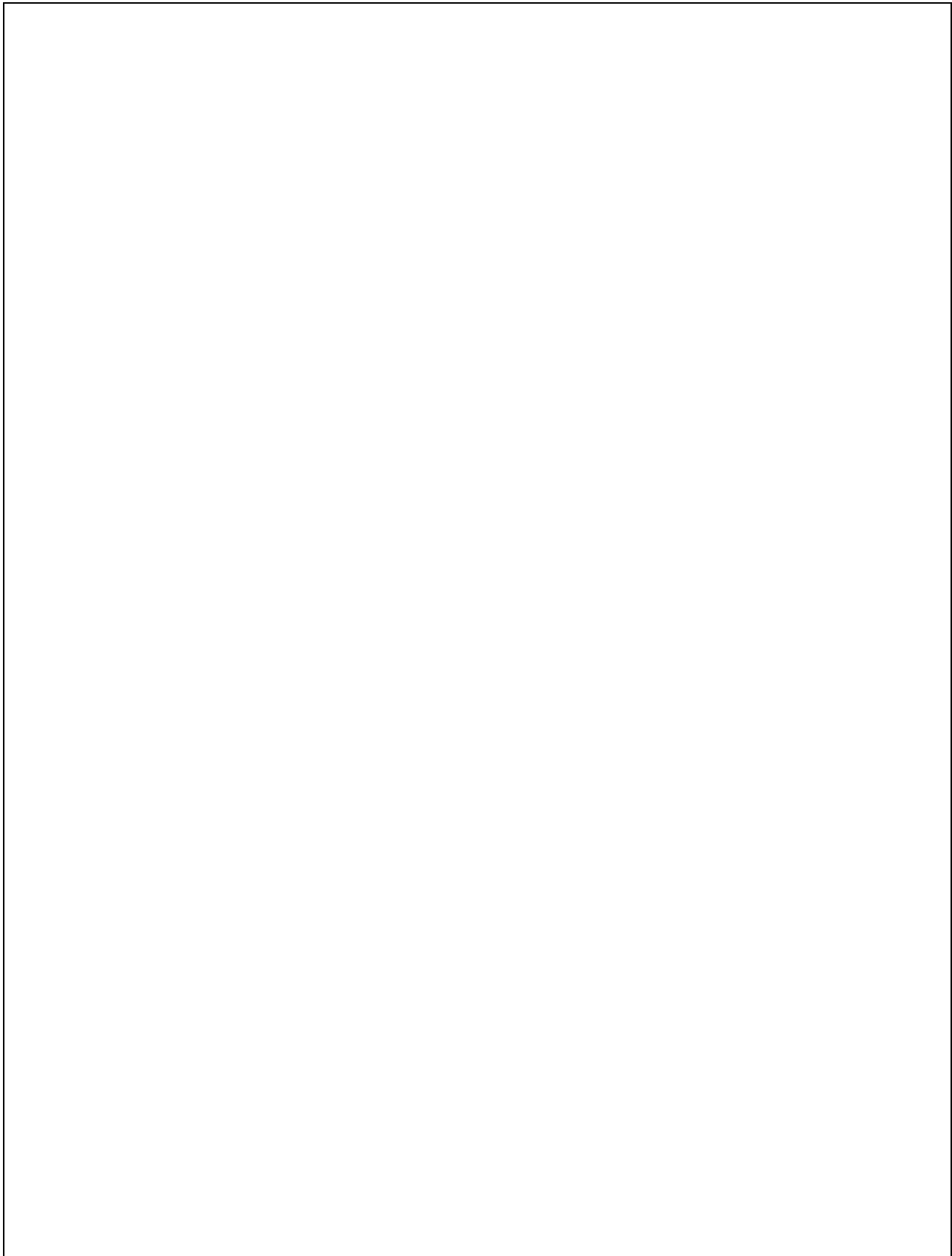
2 STORY
LOUNGE

SEE REBAR LAYOUTS FOR
ADD'L BOT. BARS DIRECTLY
UNDER WALL ABV.





CUPOLEX FORMS FOR DETENTION BASIN



By signing, signatory agrees to the following and represents that he or she is authorized to sign for the structural design firm of record.

All entries become the property of DVASE and will not be returned. By entering, the entrant grants a royalty-free license to DVASE to use any copyrighted material submitted.

If selected as an award winner, you may be offered the opportunity to present your project at a DVASE breakfast seminar. Would you be willing to present to your colleagues? ☐ **YES** ☒ **NO**

Submitted by:

Print name: Kevin Quan	Signature:	Date: 3/26/2021
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