

ENTRY FORM



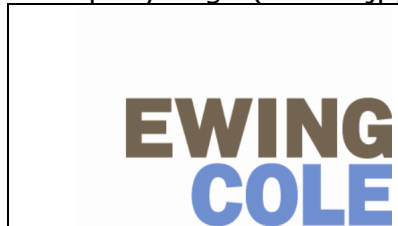
DVASE 2018 Excellence in Structural Engineering Awards Program

PROJECT CATEGORY (check one):

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

Approximate construction cost of facility submitted:	\$30 million
Name of Project:	Citizens Bank Park: Off-Season Renovations & Improvements, Phase I
Location of Project:	Philadelphia, PA
Date construction was completed (M/Y):	04/2018
Structural Design Firm:	EwingCole
Affiliation:	All entries must be submitted by DVASE member firms or members.
Architect:	EwingCole
General Contractor:	LF Driscoll

Company Logo (insert .jpg in box below)



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 May dinner 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.

Citizens Bank Park, home of the Philadelphia Phillies Major League Baseball team, underwent major renovations during this off-season. The Phillies sought to upgrade the 14 year old facility to improve fan experience. The renovations consisted of multiple sub-projects.

The left field exit ramp was re-configured to allow new concession stands to be built at the main concourse level. The new concession roof structure is supported off of the existing ramp columns. New jamb posts were provided to support "food truck" style doors which open to form canopies. Adjacent to the ramp, a new steel framed pavilion structure was constructed to house the relocated Bulls BBQ. Nearby, the suite level was extended by one bay and a new staircase was added to improve access to the newly extended outdoor dining terrace.

The revamped Hall of Fame Entry Plaza includes modifications to the back of the scoreboard building including the removal of a metal panel clad box and replacement with a structure supported brick facade. At ground level, new pile foundations were added to support large scale retired number and world series trophy statues and their concrete bases.

"The Yard" was created in the right field concourse. The new kid friendly area includes a wiffleball field complete with miniature replicas of the scoreboard, liberty bell, batter's eye, backstop, netting, dugout, and bullpen. Other games including a hot dog launcher and a rock climbing wall were also incorporated. Located on the outskirts of The Yard, the roof of the new "kid/adult bar" is a curved structure supported on steel framing which cantilevers off of existing laced columns.

Additional projects included the creation of a bullpen overlook which was accomplished by re-tiering the stepped structural slab plaza behind the batter's eye, installation of cast-in-place concrete over-framing to extend the main concourse over the top rows of precast stadia, and construction of new "party suites" at the club level.

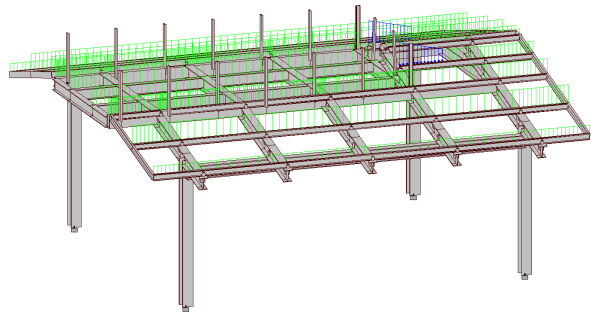
Due to poor soil conditions, the existing outfield ground level slab is a two-way concrete slab spanning between 20 ton timber piles. In areas of new construction the structural slab was demolished for new foundation installation and utility routing. New foundation layouts were coordinated with existing timber pile locations. When re-constructed, the new structural slab was supported off of the existing timber piles to the greatest extent possible with the addition of new supplemental 20 ton helical piles added as necessary. Exact as-built pile locations were not available, so the structural slab designs were modified throughout the fast-paced construction as existing piles were exposed.

The owner required that the construction work must occur only during the off-season from the beginning of October, 2017 to the end of March, 2018. The structural engineering design effort began in earnest in September, just one month before demolition was scheduled to begin. At the time, architectural designs had not progressed beyond a schematic level and the scope of projects to be completed in 2017-2018 had not yet been fully established. Early demolition packages were produced to ensure that construction could begin on time. The design process continued throughout the construction phase with designs continuously evolving to meet the schedule and budget. A team of 12 engineers worked in a coordinated effort to keep pace with the re-design efforts as well as provide quick turn-around on RFI's and construction submittals which were often reviewed and returned in one or two days. A near constant on-site presence was maintained to facilitate communication between the engineering team and contractor.

In total, \$30 million of improvements were designed and constructed in a seven month period with construction wrapping up just days before the home opener of the 2018 baseball season. The new amenities will improve the overall fan experience and will engage and excite the next generation. The hope is to inspire kids to become lifelong baseball fans who will enjoy the ballpark for years to come.

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

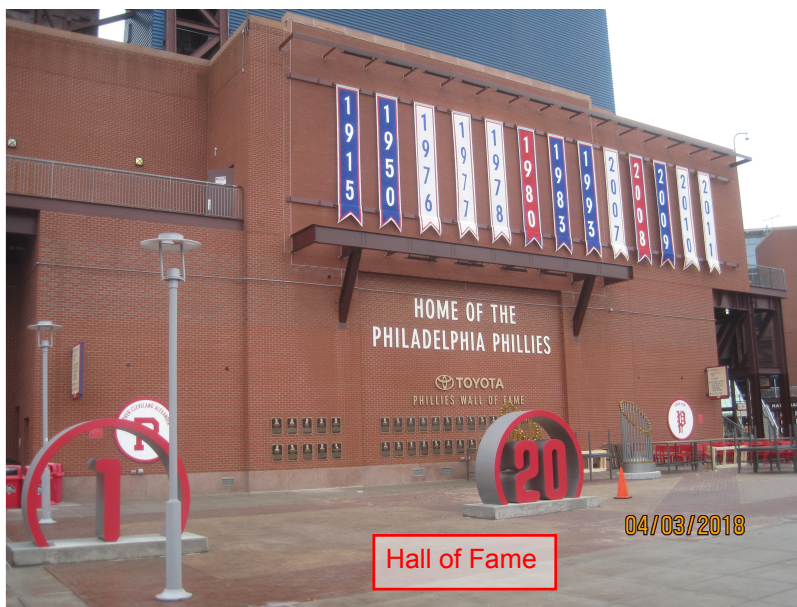




Bull's BBQ



Suite Extension



Hall of Fame

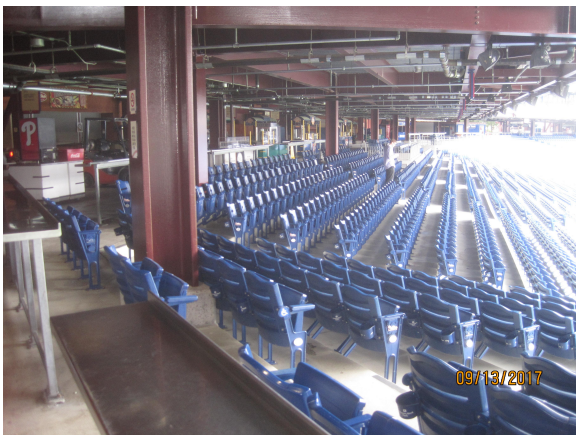
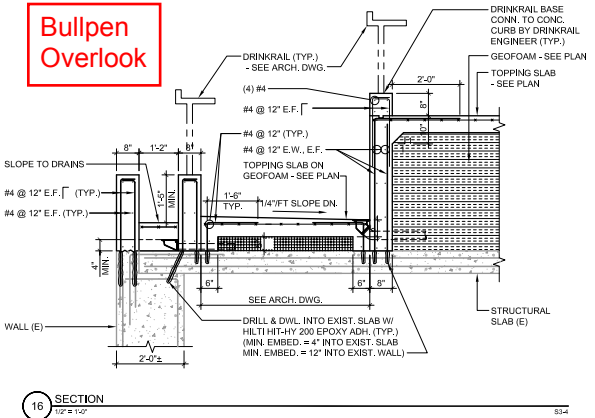


c. November, 2017





**Bullpen
Overlook**





Party Suites



"Kid/Adult Bar"



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:

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