

FIG. 1 - FROM SHEET 55 OF 44. MACHINERY HOUSE

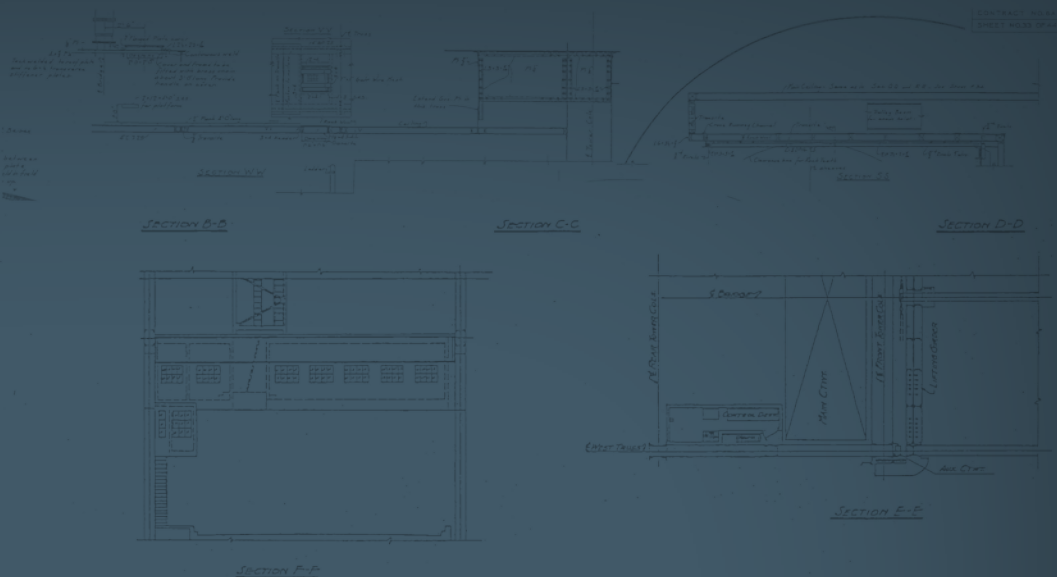


FIG. 3 - FROM SHEET 5 OF 44. (STREET SHEET TOWER AND COUNTERWEIGHT)

| LOAD TO LIST                    |                   |
|---------------------------------|-------------------|
| Runway Grating                  | 420,000*          |
| Counterweight                   | 130,000           |
| Steel Deck                      | 90,000            |
| Concrete Slab 200' x 100' x 12" | 540,000           |
| Steel Joist                     | 2,070,000         |
| Truss                           | 20,000            |
| Steel Bolts, Nuts, and Washers  | 80,000            |
|                                 | <b>4,500,000*</b> |

## RECOMMENDED

*Waddell & Hardesty*  
 WADDELL & HARDESTY - CONSULTING ENGINEERS  
*William R. Latham*  
 WADDELL & HARDESTY - CONSULTING ENGINEERS

## APPROVED

*William R. Latham*  
 WILLIAM R. LATHAM - CIVIL ENGINEER AND DEPT. MANAGER  
*Barry Taylor*  
 BARRY TAYLOR - SECRETARY  
*William R. Latham*  
 WILLIAM R. LATHAM - CIVIL ENGINEER

**HARDESTY & HANOVER, LLP**  
 CELEBRATING EXCELLENCE AND INNOVATION

IN CHARGE OF  
*J. A. L. Waddell*  
 DRAFTSMAN  
 TRACESET  
 EXERCIST  
 DATE: 03/06/2007

**120**

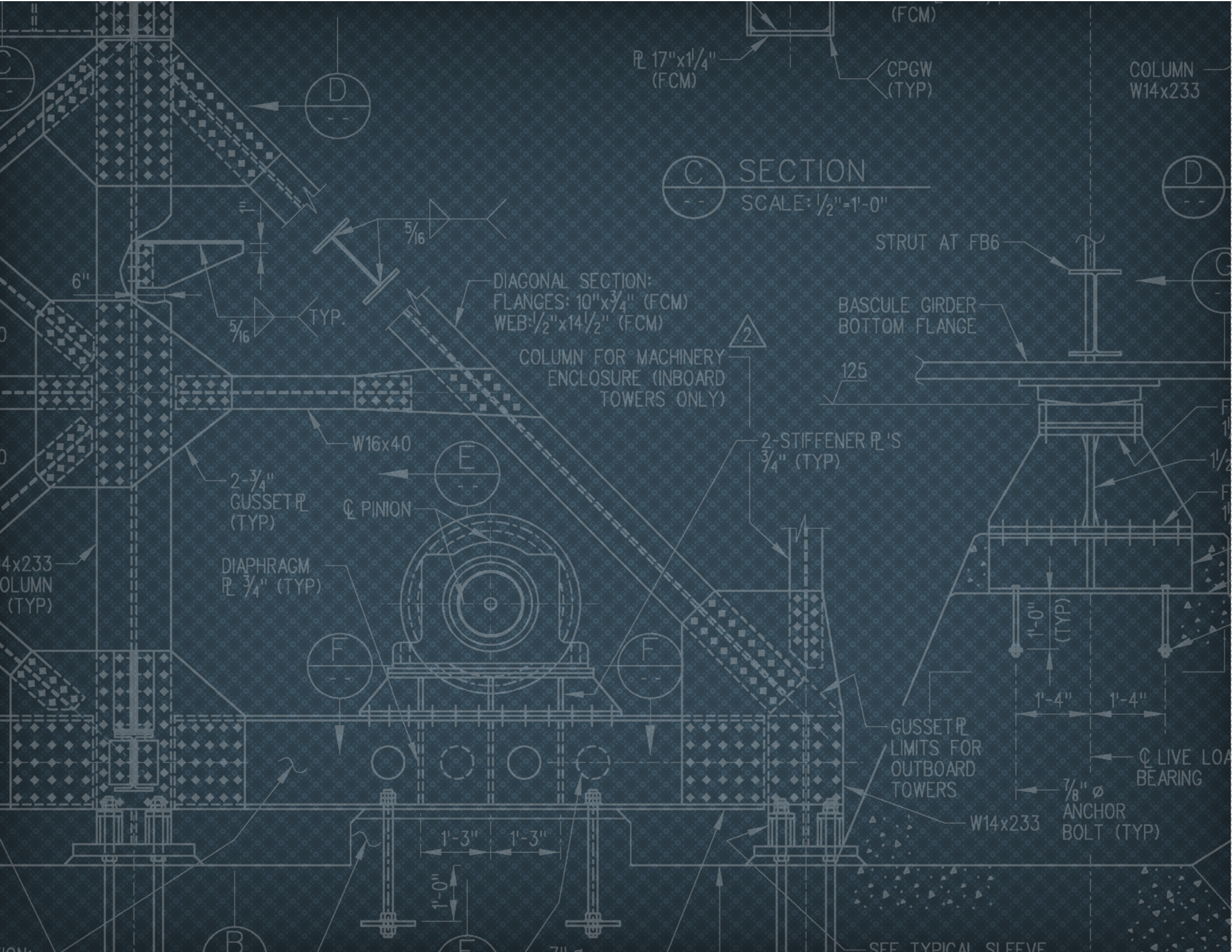
**TH**

ANNIVERSARY

1887-2007

**YEARS OF SERVICE**





*"There is no doubt in my mind about it, ours is the most satisfying profession of them all, not withstanding its numerous physical hardships, its grave responsibilities, and its exacting demands on one's time and energies. Never once since graduation...would I have considered changing the profession of my choice, and never once have I regretted that choice."*

*J. A. L. Waddell.*  
**Dr. J.A.L. Waddell**  
Founder

Serving our clients and their communities for our 120th year, Hardesty & Hanover, LLP is widely recognized for its industry leadership and expertise. Offering services that span the engineering spectrum—from complex movable and fixed bridges, to stadium structures and power systems—Hardesty & Hanover is equipped to address the unique requirements of any project, regardless of size and scope.

With our local presence—and global reach—we are providing our clients solutions to their most complex infrastructure needs. We invite you to see where we plan to go with our next 120 years, what we are doing today to get us there, and how our last 120 years has prepared us to best serve you... well into the future.



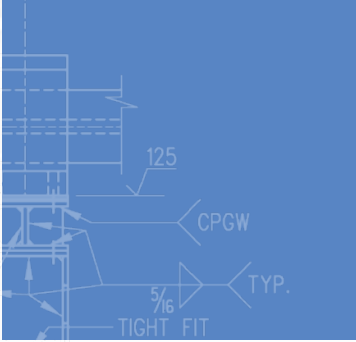
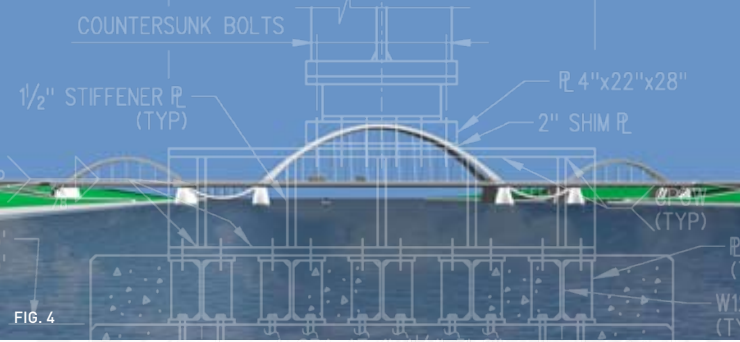
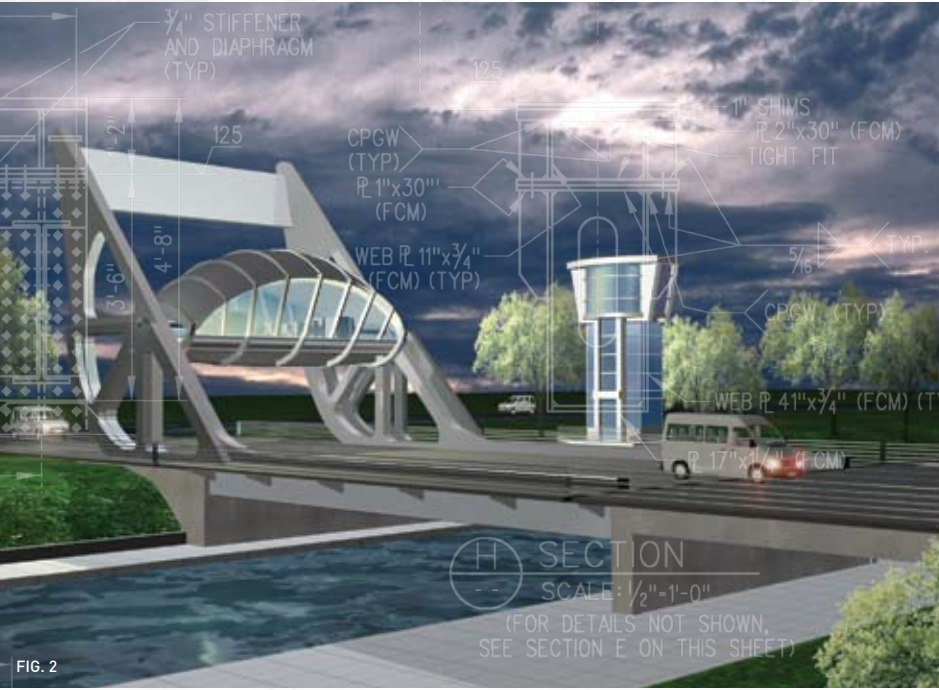
## OUR FUTURE

We will in the future, as we have in the past, always seek to expand the services we provide to you, our clients. Having served the bulk of our present client base for well in excess of fifty years, we will look to continue anticipating their needs for the next fifty years. Your repeated trust, sincerely appreciated and doggedly earned, is our most prolific motivator.

Our future, like that of our clients requires innovating community specific solutions. We believe in partnership; our team is an extension of yours. The growth of our branch offices, eleven in counting, will fuel our ability to more deeply serve our clients. Concurrently, we will expand our global reach sharing our expertise across the country and around the globe—because we believe the best way to serve our clients is to sit next to them, understand their unique challenges and forge solutions together.

We celebrate the accomplishment of growing our mechanical and electrical disciplines to among the largest specialty practices in the world. We look forward to repeating that achievement with our highway, bridge inspection, stadia and power systems disciplines in the years and decades to come.

We also believe that people are the single most valuable asset to any organization. We will not stray from that which has shown us 120 years of success: to recruit and retain the best possible talent in the engineering community; to provide unmatched mentoring and training opportunities; and to grow each individual member of our outstanding team. Expanding on these values which have shown us tremendous success in the past will help us realize our clients' visions in the future.



You, as a member of the engineering community, shape our future. Through advocacy, mentorship, and research, Hardesty & Hanover will act as steward to what we believe is the most rewarding vocation—the Engineering Profession.

The future of Hardesty & Hanover shines brightly. Leading the use of advanced technology, materials and construction methods, we strive endlessly to remain visionaries in the engineering community.

**HARDESTY & HANOVER, LLP**

**CELEBRATING EXCELLENCE AND INNOVATION**

FIG. 1– New York, NY

FIG. 2– Tianjin, PR China

FIG. 3– South Adelaide, Australia

FIG. 4– Yaojiang, PR China

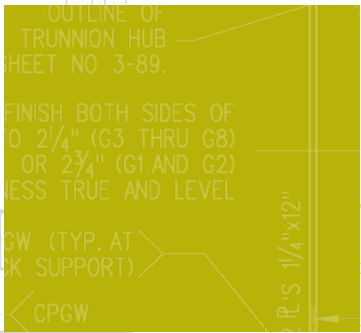
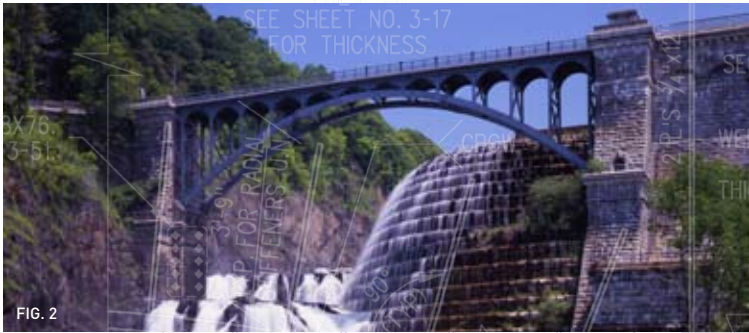
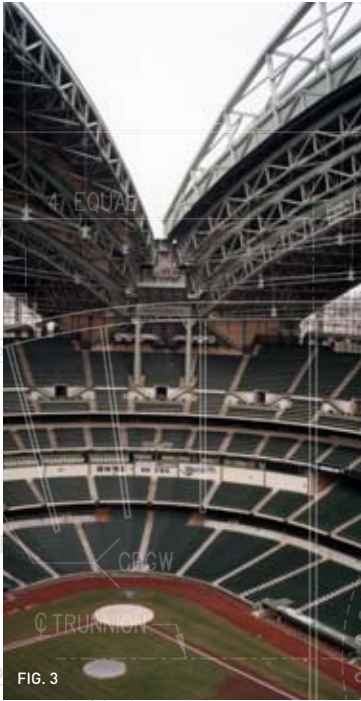
FIG. 5– Lee County, FL

"Building upon the experience and success of those who came before us, we must continue to exceed our clients' expectations now and in the future. It is by leveraging the skills of our vastly talented, deeply committed staff that we will attain the best means to achieve such an important end."

*Paul Skelton*

Paul Skelton  
Partner & Chief Development Officer





For centuries, engineering concepts have been refined and proven. Hardesty & Hanover prides itself on taking these tried and true concepts and using them in innovative ways.

From designing the heaviest movable bridge in the world to using the most modern materials, Hardesty and Hanover redefines the limits of engineering design.

**HARDESTY & HANOVER, LLP**

CELEBRATING EXCELLENCE AND INNOVATION

FIG. 1- New Haven, CT

FIG. 2- Westchester County, NY

FIG. 3- Milwaukee, WI

FIG. 4- New York, NY

FIG. 5- Washington, DC

"The cornerstone of any truly successful engagement is the attention paid to detail. By applying this compelling precept universally—not only to the services we directly provide our clients, but also to our internal operations—we can be assured of providing a complete and positive service experience. Our ultimate objective has always been, and remains today, total client satisfaction."

*Charles J. Gozdziowski*  
Charles J. Gozdziowski  
Partner & Chief Executive Officer



## OUR PRESENT

Hardesty & Hanover has built on its legacy of providing first-rate consulting services to the largest, most distinguished public and private entities. World-renowned as the preeminent engineers of heavy movable structures, we are proud to see our realm expand to include the design and rehabilitation of complex fixed bridges, power systems and stadiums.

Drawing on our vast experience, we help our clients realize increased life of and productivity from their infrastructure assets. Leveraging innovation and time-tested fundamentals, we think creatively and act responsibly, combining the science of engineering with the art of design. Each aspect is aimed at a single goal: helping you to improve the lives of those you serve.





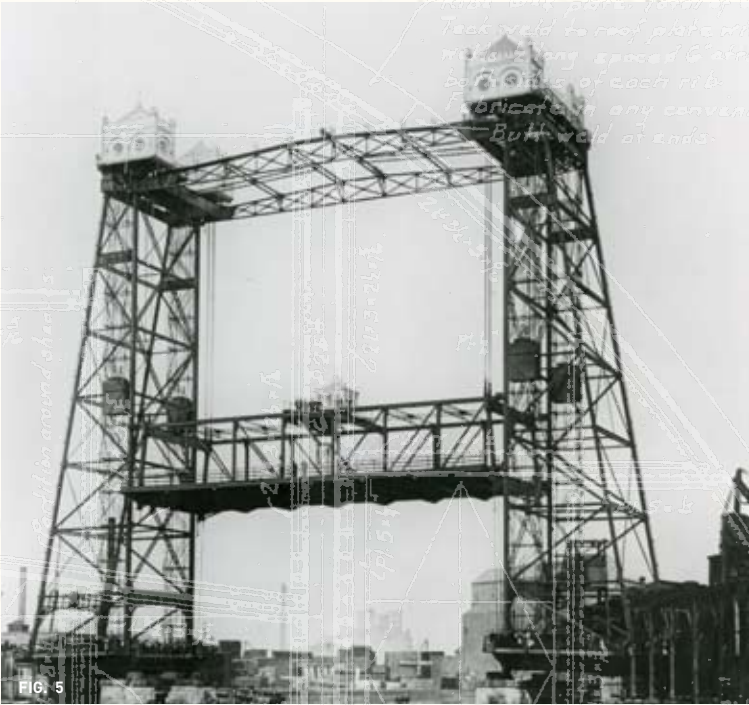
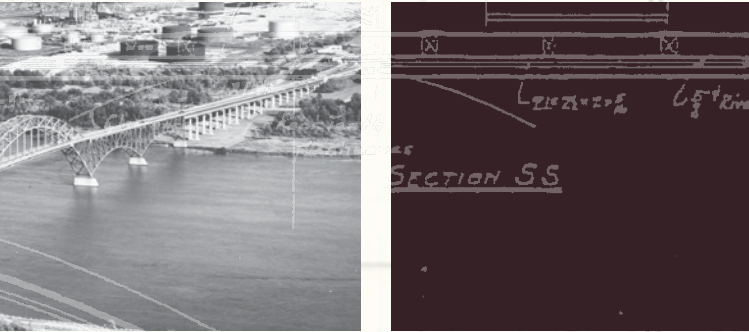
# OUR PAST

Originally established in 1887 by Dr. J.A.L. Waddell, Hardesty & Hanover continues to be a firm owned and operated by professional engineers. As the patent holder of the first vertical lift bridge design, our founding father laid the groundwork for the firm to grow and mature into the distinguished international enterprise we are today.

On each new engagement we bring expertise amassed over twelve decades of service to our communities. From our first project completed in 1890 to our design of the 1938 and 1964 World's Fair monuments to our current projects spanning six continents, Hardesty & Hanover continues to build on the legacy established so long ago while contributing as the “noted voice” to what we view as the most satisfying profession of all.



Hardesty & Hanover has been a pioneer in engineering design for the last 120 years. Dr. J.A.L. Waddell's vertical-lift bridge design patent established a new category of transportation structures.



Additionally, Clinton D. Hanover, Jr. defined a new class of structure with the Hanover Skew Bascule. These and other ground-breaking ideas have enabled H&H to bring engineering to the level it is today.

HARDESTY & HANOVER, LLP

CELEBRATING EXCELLENCE AND INNOVATION

FIG. 1- Miami, FL

FIG. 2- Pasadena, CA

FIG. 3- Niagara Falls, NY

FIG. 4- New York, NY

FIG. 5- Chicago, IL

"Experience is the foundation from which success can rise, and we have always measured success by the satisfaction of our clients. The stalwart underpinnings we enjoy today—earned over the last century—will benefit our clients in the next"

*A.W. Herrmann*  
Andrew W. Herrmann  
Managing Partner

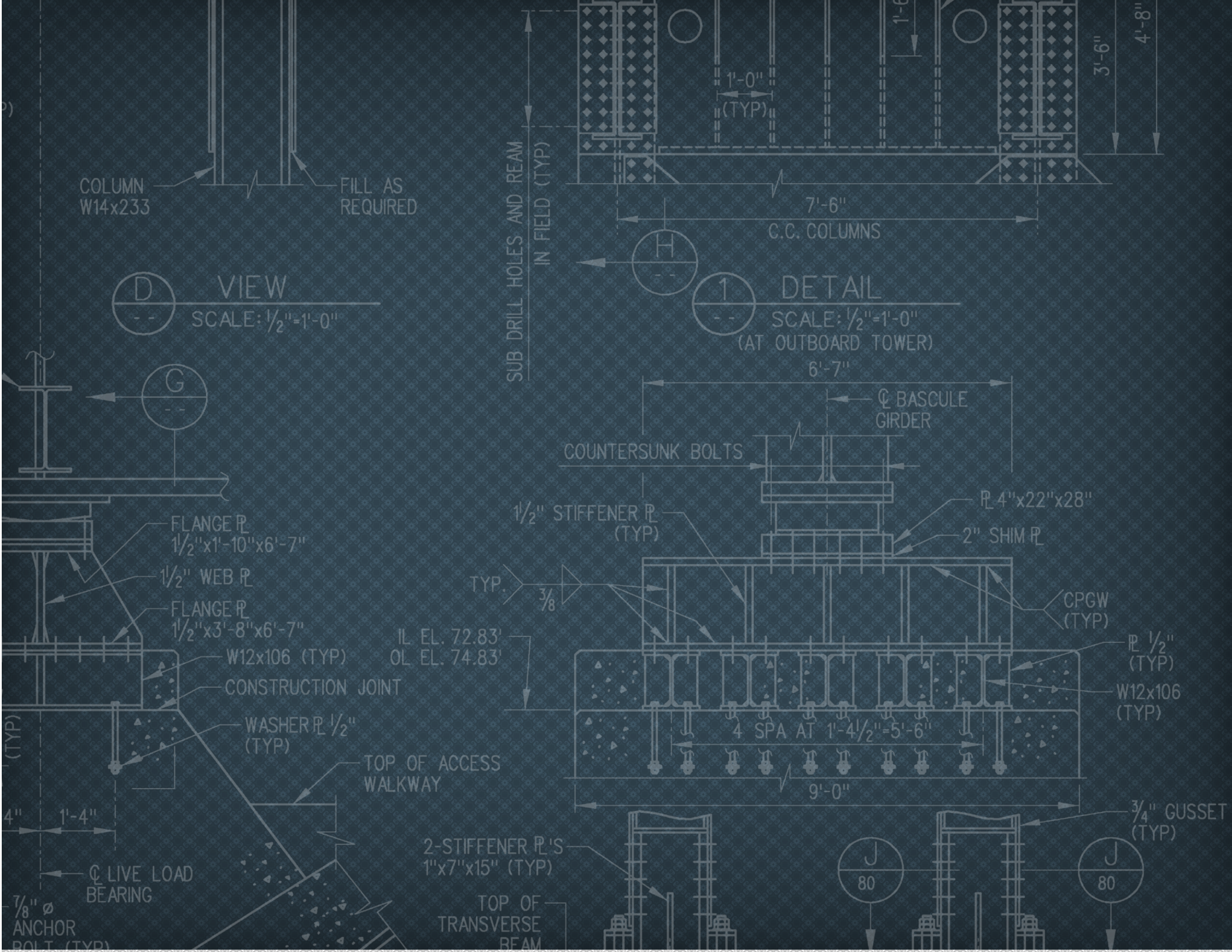


*“The Science of Bridge Designing Lies Mainly in the Detailing.”*

*J. A. L. Waddell.*  
**Dr. J.A.L. Waddell**  
Founder

Our founder, Dr. J.A.L.Waddell knew the importance of attention to detail in bridge engineering. We continue to carry on this tradition, but its use has grown in application to the many unique structures we now engineer. The growth of our specialties is due, in part, to the continuation of the traditions that have contributed to success since our inception.

As we celebrate our 120th Anniversary, we continue to build on this legacy by focusing on the future—yours as well as ours.





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|                                                                                                                                                   |  |                                                                                                                                                                                       |  |                                                                                                                                                                               |
| <b>HARDESTY &amp; HANOVER, LLP</b>                                                                                                                |  | <ul style="list-style-type: none"><li>• STRUCTURAL</li><li>• MECHANICAL</li><li>• ELECTRICAL</li><li>• HIGHWAY</li><li>• GEOTECHNICAL</li><li>• HYDRAULIC</li><li>• SEISMIC</li></ul> |  | <b>120</b>                                                                                                                                                                    |
| CELEBRATING EXCELLENCE AND INNOVATION                                                                                                             |  |                                                                                                                                                                                       |  |                                                                                                                                                                               |
|                                                                                                                                                   |  | <b>www.hardesty-hanover.com</b>                                                                                                                                                       |  |                                                                                          |
|                                                                                                                                                   |  | <b>1887-2007</b> 120TH ANNIVERSARY                                                                                                                                                    |  |                                                                                                                                                                               |