



ORIGINAL

CITY OF HOLLYWOOD, FLORIDA

RFQ No.: 4421-14-RD

CONTINUING CONTRACT FOR  
STRUCTURAL ENGINEERING  
SERVICES (PW 14-009)

Due Prior To: 3:00 P.M. on **May 30, 2014**

TRC Worldwide Engineering, Inc. / 5-30-2014

3590 NW 56<sup>th</sup> Street

Fort Lauderdale, Florida 33309

Contact: Derek A. Wassink, PE, RA, SI, LEED AP

Phone: 954-484-7777/ Fax: 954-484-7834

E-Mail: [dwassink@trcww.com](mailto:dwassink@trcww.com)

Web Site: [www.trcww.com](http://www.trcww.com)

## REQUIRED FORMS

1

Proposer Acknowledgment	Page 1
Hold Harmless Statement	Page 2
Disclosure of Conflict of Interest	Page 3
Addendum No. 1	Page 4
RFQ Checklist	Page 5

2

## LETTER OF TRANSMITTAL

Pages: 6 - 7

3

## COMPLETED STANDARD FORM 330

Pages: 8 - 25

4

## PROFILE OF CONSULTANT

Firm (a., b., c.)	Pages: 26 - 29
Projects (d.)	Pages: 30 - 38
Litigation (e.)	Page: 39
TRC Personnel (f.)	Pages: 40 - 44
Approach (g., h., i.)	Pages: 45 - 46

5

## CERTIFICATES OF INSURANCE (Specimens)

Pages: 47 - 48



**Submit Proposals To:**  
 City of Hollywood  
 2600 Hollywood Boulevard  
 Hollywood, Florida 33020  
 Office of City Clerk, Room 221

**CITY OF HOLLYWOOD, FLORIDA**

**REQUEST FOR QUALIFICATIONS**

**PROPOSER ACKNOWLEDGMENT**

RFQ Title: Continuing Contract for Structural Engineering Services (PW 14-009)

RFQ No.: 4421-14-RD

Service Required: as above

Proposals must be received prior to 3:00 P.M. May 30, 2014 and may not be withdrawn within 90 calendar days after such date and time. Proposals received by the date and time specified will be opened in Room 303. All Proposals received after the specified date and time will be returned unopened.

Procurement Services Contact: Ralph Dierks, or Linda Silvey, or Joel Wasserman or his designee

Telephone No.: (954) 921-3223 or (954) 921-3200 or (954) 921-3290

### PROPOSER ACKNOWLEDGMENT

THIS FORM MUST BE COMPLETED AND SUBMITTED PRIOR TO THE DATE AND THE TIME OF PROPOSAL OPENING. THE PROPOSAL SUMMARY SHEET PAGES ON WHICH THE PROPOSER ACTUALLY SUBMITS A PROPOSAL AND ANY PAGES UPON WHICH INFORMATION IS REQUIRED MUST BE COMPLETED AND ATTACHED WITH THE PROPOSAL.

Proposer's Name: TRC Worldwide Engineering, Inc.	Fed. ID No. or SS Number <u>62-1803853</u>
Complete Mailing Address: 3590 NW 56th Street Fort Lauderdale, FL 33309	Telephone No.: (954) 484-7777
	Fax No.: (954) 484-7834
Do You Have a Permanent Office Located in the City of Hollywood? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	E-Mail Address: dwassink@trcww.com
Indicate type of organization below: Corporation <input checked="" type="checkbox"/> Partnership <input type="checkbox"/> Individual <input type="checkbox"/> Other	

ATTENTION: FAILURE TO SIGN (PREFERABLY IN BLUE INK) OR COMPLETE ALL RFP SUBMITTAL FORMS AND FAILURE TO SUBMIT ALL PAGES OF THE RFP DOCUMENT AND ANY ADDENDUMS ISSUED MAY RENDER YOUR RFP NON-RESPONSIVE.

THE PROPOSER CERTIFIES THAT THIS PROPOSAL IS BASED UPON ALL CONDITIONS AS LISTED IN THE PROPOSAL DOCUMENTS AND THAT HE/SHE HAS MADE NO CHANGES IN THE PROPOSAL DOCUMENT AS RECEIVED. HE FURTHER PROPOSES AND AGREES, IF HIS/HER PROPOSAL IS ACCEPTED, HE/SHE WILL EXECUTE AN APPROPRIATE AGREEMENT FOR THE PURPOSE OF ESTABLISHING A FORMAL CONTRACTUAL RELATIONSHIP BETWEEN HIM/HER AND THE CITY OF HOLLYWOOD, FLORIDA, FOR THE PERFORMANCE OF ALL REQUIREMENTS TO WHICH THIS PROPOSAL PERTAINS.

Derek Wassink, PE, RA, SI, LEED AP President, Structural Engineering Group 5/21/2014

Authorized Name (Type or Print)

Title

Authorized Signature



of this Contract, or find the Consultant in default and terminate this Contract.

- E. Said insurance shall be written by a company or companies licensed to do business in the State of Florida and rated no less than A+ in the latest edition of "Best's Key Rating Guide," published by A.M. Best Company.
- F. Recognizing that the work governed by this contract involves the furnishing of advice or services of a professional nature, the Contractor shall purchase and maintain, throughout the life of the contract, **Professional Liability Insurance** which will respond to damages resulting from any claim arising out of the performance of professional services or any error or omission of the Contractor arising out of work governed by this contract.

The minimum limits of liability shall be:  
\$250,000 per occurrence/\$500,000 Aggregate

#### HOLD HARMLESS AND INDEMNITY CLAUSE:

TRC WWEN9, INC. [Signature] DEREK A. WASSINK  
(Company Name and Authorized Signature, Print Name)  
the contractor shall indemnify, defend and hold harmless the City of Hollywood, its elected and appointed officials, employees and agents for any and all suits, actions, legal or administrative proceedings, claims, damage, liabilities, interest, attorney's fees, costs of any kind whether arising prior to the start of activities or following the completion or acceptance and in any manner directly or indirectly caused, occasioned or contributed to in whole or in part by reason of any act, error or omission, fault or negligence whether active or passive by the contractor, or anyone acting under its direction, control, or on its behalf in connection with or incident to its performance of the contract.

TRC WW EN9, INC. [Signature] DEREK A. WASSINK  
(Company Name and Authorized Signature, Print Name)  
further certifies that it will meet all insurance requirements of the City of Hollywood and agrees to produce valid, timely certificates of coverage.

#### XVII. TRUTH-IN-NEGOTIATION CERTIFICATE:

Signature of this Contract by Consultant shall act as the execution of a truth-in-negotiation certificate stating that wage rates and other unit costs supporting the compensation of this Contract are accurate, complete, and current at the time of contracting. The original contract price and any additions thereto shall be adjusted to exclude any significant sums by which the City determines the contract price was increased due to inaccurate, incomplete, or non-current wage rates and other unit costs. All such contract adjustments shall be made within one (1) year following the end of this Contract.



## XXI: DISCLOSURE OF CONFLICT OF INTEREST

Not Applicable

### XXI: DISCLOSURE OF CONFLICT OF INTEREST:

Vendor shall disclose below, to the best of his or her knowledge, any City of Hollywood officer or employee, or any relative of any such officer or employee as defined in Section 112.3135, Florida Statutes, who is an officer, partner, director or proprietor of, or has a material interest in the vendor's business or its parent company, any subsidiary, or affiliated company, whether such City official or employee is in a position to influence this procurement or not.

**Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City of Hollywood Purchasing Ordinance.**

Name

Relationship

\_\_\_\_\_

\_\_\_\_\_

In the event the vendor does not indicate any names, the City shall interpret this to mean that no such relationship exists.



# City of Hollywood, Florida

PROCUREMENT SERVICES RM. 303  
P. O. Box 229045 ZIP 33022-9045

## NOTICE TO PROPOSERS

NOTICE IS HEREBY GIVEN, that the City Commission of the City of Hollywood, Florida is advertising for Sealed Request for Qualifications, which will be received by the City Clerk of the City of Hollywood, Florida until **3:00 P.M., May 30, 2014**, at which time they will be opened and publicly read in the Procurement Services Division, Room 303, City Hall, 2600 Hollywood Boulevard, Hollywood, Florida. FOR: **Continuing Contract for Structural Engineering Services (PW 14-009)**

RFQ NO. 4421-14-RD  
ADDENDUM NO. 1

Please make the following changes (additions, deletions or corrections) in the above named RFQ.

Questions submitted in regards to the above RFP and corresponding answers:

Q1: We have the following questions/clarifications in regards to the RFQ referenced above: Page 5 – 2<sup>nd</sup> bullet: "Perform all field tests, laboratory test and collect....

**Question:** what type of testing? Load tests, test pits, magnetic scanning, etc. OR Geotechnical studies

A1: **CLARIFICATION:**

**Any testing to be done would be determined on a project by project basis. If any required testing cannot be done by the Structural Consultant then the City would order the testing directly from other Testing Services".**

Q2: Page 11 Top of page states "Eight (8) Copies..." however the Page 16 checklist states 1 Original and 10 copies – Please clarify.

A2: **Page 16 is correct: please submit one (1) original and ten (10) copies of entire proposal with addendums.**

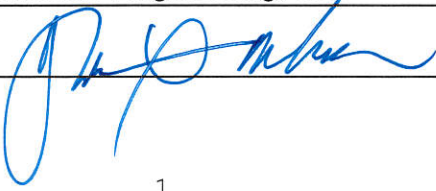
All other specifications, terms & conditions remain the same.

### MAILED RFQ'S

If you have already submitted your printed Request for Qualifications, it will be retained in the City Clerk's Office until the Proposal opening time and date. If you wish to pick up your RFQ that has already been submitted, you can do so by showing proper identification, in the Office of the City Clerk, 2600 Hollywood Blvd, Room 221, Hollywood, Florida 33020.

Please sign and return with your RFQ.

COMPANY NAME: TRC Worldwide Engineering, Inc.

PROPOSER'S SIGNATURE 

Dated this 20th day of May 2014



RFQ CHECKLIST

Please check each line item after the completion of the appropriate item.

- ☒ I verify that the signature on page number one (1) is the signature of the person authorized to bind the agreement. (Preferably in blue ink)
- ☒ I acknowledge reading and signing the Hold Harmless Statement.
- ☒ I have included all information, certificates, licenses and additional documentation as required by the City in this RFQ document.
- ☒ I have checked for any addendums to this RFQ, and will continue to check for any addendums up to the due date and time of this RFQ.
- ☒ I have submitted one (1) original and ten (10) copies of the entire proposal with addendums.
- ☒ I have verified that the outside address label of my RFQ package is clearly marked to include my company's name, address, RFQ number and date of RFQ opening.
- ☒ I have read and completed (if applicable) the "Disclosure of Conflict of Interest".

NAME OF COMPANY: TRC Worldwide Engineering, Inc.

PROPOSER'S NAME: Derek A. Wassink, P.E., R.A., S.I., LEED AP

PROPOSER'S AUTHORIZED SIGNATURE: 

DATE: 5/21/2014

## **TRC Worldwide Engineering, Inc.**

3590 NW 56<sup>th</sup> Street

Fort Lauderdale, FL 33309-2240

P: (954) 484-7777

F: (954) 484-7834

[www.trcww.com](http://www.trcww.com) C.O.A. No. 27322



May 27, 2014

Mr. Ralph Dierks, Procurement Manager  
Procurement Services Division  
City of Hollywood  
c/o Office of the City Clerk  
2600 Hollywood Boulevard, Room #220  
Hollywood, Florida 33020

**RE: CONTINUING CONTRACT FOR STRUCTURAL ENGINEERING SERVICES (PW 14-009)**  
**RFQ NO.: 4421-14-RD**

Dear Mr. Dierks and Members of the Selection Committee:

TRC Worldwide Engineering, Inc. (TRC) is pleased to submit our qualifications to provide Professional Structural Engineering Services for the City of Hollywood, Florida. TRC has Florida offices in Fort Lauderdale, Fort Myers, Fort Pierce, Jacksonville, Sarasota and Tampa with a professional and technical staff of 49 people. As members of the community, we have had the opportunity to work with city, county and state personnel throughout Florida. Together, we have worked to strengthen and improve facilities for the residents and visitors of Florida.

TRC has provided structural engineering services on a wide range of projects throughout Florida for more than forty-seven years. Our many years' experience has led to a complete understanding of the specific requirements of existing structures which have unique issues that are separate from new construction - issues such as the environment, particularly in coastal areas. TRC has offered building owners from Tallahassee to Key West with resourceful, cost-effective solutions to improve and maintain their property. We are proud of our efforts to maintain communications with all parties involved in any project and our success at meeting project schedules and budget requirements.

We believe that teamwork and diversity results in design solutions tailored to meet each client's goals. We have established ourselves as a hardworking and creative firm that places our clients' needs as the top priority. We consistently focus our energy on service, quality, and a fair price.

Company-wide, TRC has been involved with continuing services contracts with government and healthcare agencies and school boards. The Fort Lauderdale office of TRC, established in 1967, has worked on a number of continuing service structural engineering contracts over the past thirty-plus years. Currently, the Fort Lauderdale office of TRC has structural continuing service contracts with the Broward County Sheriff's Office, City of Homestead, City of Miami Gardens, the City of Marathon and the School Board of Broward County.



Mr. Ralph Dierks, Procurement Manager  
Procurement Services Division  
City of Hollywood

RE: **CONTINUING CONTRACT FOR STRUCTURAL ENGINEERING SERVICES (PW 14-009)**  
**RFQ NO.: 4421-14-RD**

May 27, 2014  
Page 2 of 2

I, Derek A. Wassink, P.E., R.A., S.I. LEED AP, President of the Structural Engineering Group, am authorized to represent TRC Worldwide Engineering, Inc. Our office is located at 3590 NW 56<sup>th</sup> Street, Fort Lauderdale, FL 33309; telephone is (954) 484-7777; e-mail: [dwassink@trcww.com](mailto:dwassink@trcww.com).

As a principal and representative of TRC Worldwide Engineering, Inc., I have read this RFQ, understand the work involved with this continuing service contract and agree to meet all requirements set by the City of Hollywood, Florida.

Our team is available for this project and committed to meet schedule, management and quality requirements of the City of Hollywood, Florida. Our experience, our knowledge of similar projects, and our location will provide the staff of the City with the essential components to successfully complete the Structural Engineering Services required by the City of Hollywood.

Very truly yours,

TRC WORLDWIDE ENGINEERING, INC.



Derek A. Wassink, P.E., R.A., S.I., LEED AP  
President, Structural Engineering Group

7



# ARCHITECT – ENGINEER QUALIFICATIONS

## PART I – CONTRACT SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*  
Continuing Contract for Structural Engineering Services (PW 14-009), Hollywood, Florida
2. PUBLIC NOTICE DATE  
May 8, 2014
3. SOLICITATION OR PROJECT NUMBER  
RFQ No.: 4421-14-RD

### B. ARCHITECT – ENGINEER POINT OF CONTACT

4. NAME AND TITLE  
Derek A. Wassink, P.E., R.A., S.I., LEED AP, President, Structural Engineering Group
5. NAME OF FIRM  
TRC Worldwide Engineering, Inc.
6. TELEPHONE NUMBER  
954-484-7777
7. FAX NUMBER  
954-484-7834
8. E-MAIL ADDRESS  
dwassink@trcww.com

### C. PROPOSED TEAM

*(Complete this section for the prime contractor and all key subcontractors.)*

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCON-TRACTOR			
a.	<input checked="" type="checkbox"/>			TRC Worldwide Engineering, Inc.  CHECK IF BRANCH OFFICE <input checked="" type="checkbox"/>	3590 NW 56 <sup>th</sup> Street Fort Lauderdale, FL 33309	Structural Engineer
b.				  CHECK IF BRANCH OFFICE		
c.				  CHECK IF BRANCH OFFICE		
d.				  CHECK IF BRANCH OFFICE		
e.				  CHECK IF BRANCH OFFICE		
f.				  CHECK IF BRANCH OFFICE		8

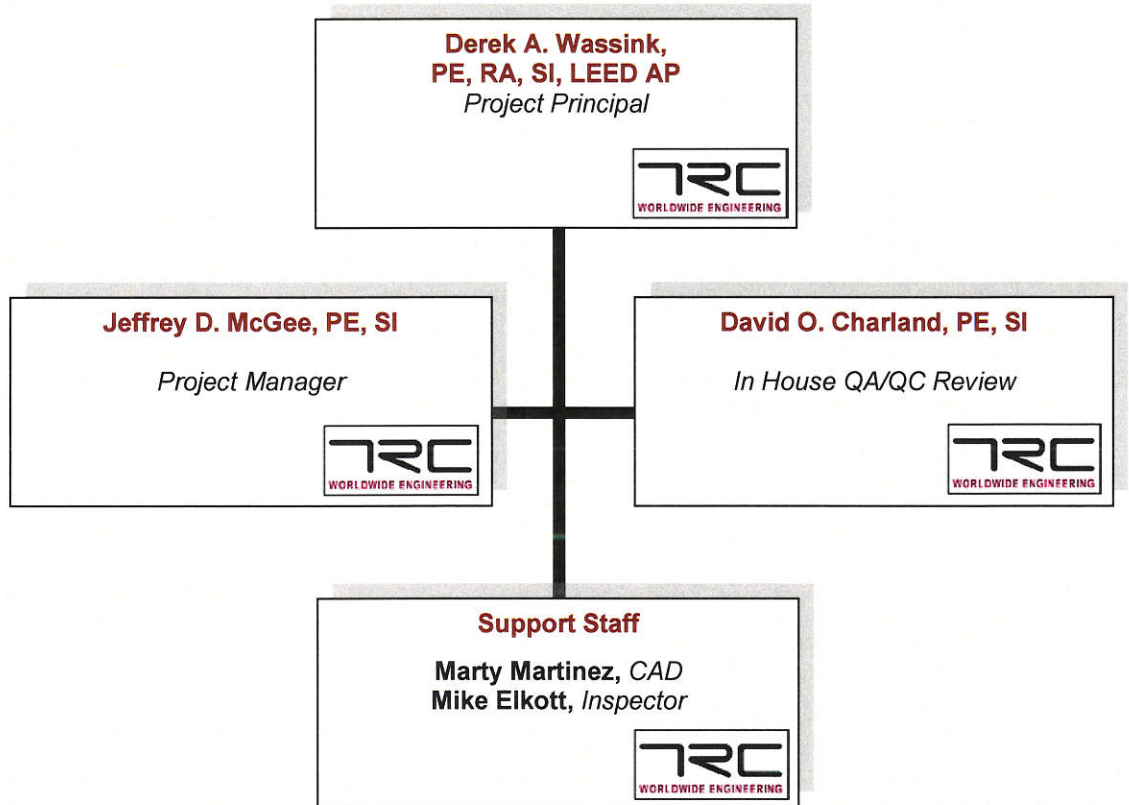
### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ (Attached)



# Organization Chart

## TRC Worldwide Engineering, Inc. Team Members – Structural Engineering Services



# E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Derek A. Wassink, PE, RA, SI, LEED AP	13. ROLE IN THIS CONTRACT Project Principal/Manager Structural Engineering Services	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 25</td> <td>b. WITH CURRENT FIRM 13</td> </tr> </table>		a. TOTAL 25	b. WITH CURRENT FIRM 13
a. TOTAL 25	b. WITH CURRENT FIRM 13				
15. FIRM NAME AND LOCATION (City and State) TRC Worldwide Engineering, Inc., Fort Lauderdale FL					
16. EDUCATION (DEGREE AND SPECIALIZATION)  Master of Civil Engineering, Villanova University Bachelor of Science in Civil Engineering, Princeton University Structural Engineering specialty		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Engineer: FL: PE 55303; PA: PE 045286; NM: PE 20408 Special Inspector/Threshold Buildings: FL 7020100 Registered Architect: NY #034567; LEED Accredited			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Professional Affiliations: American Society of Civil Engineers; American Concrete Institute; Florida Engineering Society; American Concrete Institute					

## 19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>FDOT – Ft. Lauderdale Amtrak Train Station (Historic Renovation)</b>	PROFESSIONAL SERVICES 2012-2013	CONSTRUCTION (If Applicable) N/A
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Structural engineering services for the renovation, restoration and reinforcing of the FDOT Amtrak Train Station located in Fort Lauderdale. The original station was constructed in 1926 and is considered an Historic Building. TRC provided design of repairs and strengthening to upgrade the wind resistance of structural members. Project Role: Project Manager, Structural Design Services	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Broward County Emergency Operations Center - Structural Study Plantation, FL</b>	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable) N/A
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  TRC Worldwide Engineering, Inc. was requested by Broward County to perform a structural analysis of the existing building in an effort to determine its lateral capacity based on the current building code wind pressures. TRC analyzed all of the structural elements, including the exterior wall system, and determined the maximum building code and Saffir Simpson wind speeds that the existing structural system could withstand. TRC then designed retrofit strengthening recommendations to further increase the lateral capacity of the building. Project Role: Project Manager, Structural Design Services	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Deerfield Beach Elementary School Auditorium (Historic Renovation) Deerfield Beach, FL</b>	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If Applicable) N/A
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Structural engineering investigation, assessment, evaluation, Project Management and full construction documents for the necessary repairs of this beautiful, 85 year old, historic building. Project Role: Project Manager, Structural Design Services	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Pompano Air Park City of Pompano Beach, FL</b>	PROFESSIONAL SERVICES 2009	CONSTRUCTION (If Applicable) N/A
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Under a Continuing Services Contract with the Architect and the City of Pompano Beach, TRC provided foundation design for a pre-manufactured metal building. Project Role: Project Manager, Structural Design Services	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>School Board of Broward County, FL Broward County, FL-Continuing Services for Structural Engineering</b>	PROFESSIONAL SERVICES 2002	CONSTRUCTION (If Applicable) N/A
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Under a Continuing Services Contract, TRC was authorized to conduct a window inspection at Kathleen C. Wright Center for the Department of Education's Enhanced Hurricane Protection Areas (EHPA) certification. At the completion of our inspection, we presented our findings and recommendations in a written report to Broward County Schools. Project Role: Principal-in-Charge, Structural Design Services	<input checked="" type="checkbox"/> Check if project performed with current firm	

# **E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

<b>12. NAME</b> Jeffrey D. McGee, P.E., S.I.	<b>13. ROLE IN THIS CONTRACT</b> Project Manager, Structural Engineering Services	<b>14. YEARS EXPERIENCE</b> a. TOTAL 25      b. WITH CURRENT FIRM 24	
<b>15. FIRM NAME AND LOCATION (City and State)</b> TRC Worldwide Engineering, Inc., Fort Pierce, FL			
<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b>  Bachelor of Science in Civil Engineering / Specializing in Structural Bachelor of Fine Arts / Music		<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b>  FL / Professional Engineer FL / Special Inspector of Threshold Buildings	
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b> Florida Engineering Society (FES); American Society of Civil Engineers (ASCE); American Consulting Engineers Council (ACEC); Florida Institute of Professional Engineers (FICE)			

## **19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Jonathan Dickinson State Park – Environmental Education Research Center Jupiter, FL</b>	PROFESSIONAL SERVICES 2003	CONSTRUCTION (If Applicable) 2005
<b>a.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  \$1.84 million, 15,400 square foot, environmental education research center near the Loxahatchee River. The center includes an exhibit hall, auditorium, classrooms and laboratories to conduct research and educate visitors about the diverse bio-communities within the park.  <div style="text-align: right;">Project Role: Project Manager, Structural Engineering Services</div>		
<b>Indian River County Emergency Operations Center Vero Beach, FL</b>	PROFESSIONAL SERVICES 2005	CONSTRUCTION (If Applicable) 2006-2007
<b>b.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  New, \$2.2 million, single story, 16,000 sq.ft. hardened structure designed for 200 MPH wind speed. The structure consists of tilt-up concrete wall panels with interior steel columns supporting steel beams and steel bar joist roof. The structural roof deck consists of 4" concrete slab cast over a steel form deck supported on the bar joist and steel beam framing. Foundations are shallow, grade supported concrete spread footings with a concrete slab-on-grade ground floor.      Project Role: Project Manager, Structural Engineering Services		
<b>St. Lucie County Fire District – Administrative Office Building Fort Pierce, FL</b>	PROFESSIONAL SERVICES 2004-2005	CONSTRUCTION (If Applicable) 2005-2007
<b>c.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  New, \$3.5 million, two-story, 30,000 sq.ft. office building that will include a council chambers meeting room. Roof structure is framed with steel beams supporting steel bar joists with perimeter mansard trusses; two tower elements extend up and framed with pre-engineered wood trusses; second floor is composite concrete joist and concrete deck floor system; exterior walls are load bearing concrete masonry; shallow grade foundations; concrete slab-on-grade      Project Role: Project Manager, Structural Engineering Services		
<b>Indian River County – Administration Building Vero Beach, FL</b>	PROFESSIONAL SERVICES 2004-2005	CONSTRUCTION (If Applicable) 2005-2007
<b>d.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  The \$30 million project includes two (2) new two-story administrative office buildings for Indian River County – Building 1 has 93,576 GSF; Building 2 has 65,958 GSF; the structural system includes concrete masonry exterior walls, interior concrete beams and columns, concrete slab and precast joists, and roof framed with sloping beams and bar joists.  <div style="text-align: right;">Project Role: Project Manager, Structural Engineering Services</div>		
<b>Martin County Community Services Building Stuart, FL</b>	PROFESSIONAL SERVICES 2005	CONSTRUCTION (If Applicable) 2005-2006
<b>e.</b> (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm  Structural design services for a new single story, 8,500 sq.ft. building; structure has steel joist roof framing system supported on CMU walls with concrete tie beams; foundations are shallow grade supported concrete spread footings; ground floor is a concrete slab-on-grade; designed per the 2001 edition of the Florida Building Code for 140 MPH wind speed  <div style="text-align: right;">Project Role: Project Manager, Structural Engineering Services</div>		



# **E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*


12. NAME David O. Charland, P.E., S.I.	13. ROLE IN THIS CONTRACT In-House QA/QC Review	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 52</td> <td>b. WITH CURRENT FIRM 47</td> </tr> </table>		a. TOTAL 52	b. WITH CURRENT FIRM 47
a. TOTAL 52	b. WITH CURRENT FIRM 47				
15. FIRM NAME AND LOCATION (City and State) TRC Worldwide Engineering, Inc., Fort Lauderdale FL					
16. EDUCATION (DEGREE AND SPECIALIZATION)  Bachelor of Science in Civil Engineering, University of Florida - Specializing in Structural		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL / Professional Engineer 8802 FL / Special Inspector of Threshold Buildings 42			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Professional Affiliations: American Society of Civil Engineers; American Concrete Institute; Florida Engineering Society; American Concrete Institute					

## **19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Nova Southeastern University - Nova Center for Collaborative Research Fort Lauderdale, Florida</b>	PROFESSIONAL SERVICES Structural Engineering	CONSTRUCTION (If Applicable) 2009-2011
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural engineering design, construction administration and threshold inspection services on this \$26 million research facility. The project consists of a new six-story, 200,000 square foot office and laboratory building and a 90,000 square foot addition to the existing parking garage, designed by us in 1994. <div align="right">Project Role: QA/AC Review, Structural Design Services</div>		
<b>Environmental Monitoring Laboratory (seeking LEED certification) Environmental Protection &amp; Growth Management Department Broward County, Florida</b>	PROFESSIONAL SERVICES Structural Engineering	CONSTRUCTION (If Applicable) 2008-2009
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural engineering design, construction administration and inspection services on this new single story laboratory and office building. Environmental Monitoring is responsible for designing and conducting scientific surveys and investigations; supporting agency efforts in resource protection and environmental compliance; serving as a County-wide environmental laboratory resource; and providing technical and scientific support for other governmental and private sector entities. The facility is NELAC-certified which ensures that the highest standards of environmental sample analyses are met. <div align="right">Project Role: QA/AC Review, Structural Design Services</div>		
<b>Florida International University – School of Law Miami, Florida</b>	PROFESSIONAL SERVICES Structural Engineering	CONSTRUCTION (If Applicable) 2005-2006
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural engineering design and construction phase services on this \$25 million college of law campus. The project is 151,368 total gross square feet with 45% of assignable space allocated to the Law Library. There are also 2 mock courtrooms that include a Judge's bench equivalent in size to the U.S. Supreme Court. <div align="right">Project Role: QA/AC Review, Structural Design Services</div>		
<b>Technology Center of the Americas (TECOTA) Miami, Florida</b>	PROFESSIONAL SERVICES Structural Engineering	CONSTRUCTION (If Applicable) 2001
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural engineering design and contract administration services on this ultra fast-track (topped out in 25 weeks) facility that serves as a central connectivity point for providers of telephone, Internet, cable and other telecommunications lines. Only six stories high with floor-to-floor heights of 17 feet, the structure has the same height as a 16-story building, and occupies a city block in Miami. Designed to withstand Category 5 hurricanes, it sits 14 ft. above sea level, but is located outside the 500-year flood plane. <div align="right">Project Role: Principal-in-Charge, Structural Design Services</div>		
<b>Florida International University – Lakeview Housing Miami, Florida</b>	PROFESSIONAL SERVICES Structural Engineering	CONSTRUCTION (If Applicable) 2006
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Structural engineering design, construction administration and threshold inspection services for the University's new \$33 million undergraduate student housing development; two, six-story buildings designed to house 825 residents and supporting space; also includes 12,880 square feet of study/social/recreational use, 2,640 square feet for a reception/lobby area, office and mailroom, and 3,680 square feet for laundry and storage space. <div align="right">Project Role: QA/AC Review, Structural Design Services</div>		

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <b>1</b>
<b>21. TITLE AND LOCATION (City and State)</b> Hollywood Community Library Broward County, Florida	<b>22. YEAR COMPLETED</b>	
	PROFESSIONAL SERVICES 2002	CONSTRUCTION (if Applicable) 2004

<b>23. PROJECT OWNER'S INFORMATION</b>		
<b>a. PROJECT OWNER</b> Client: Singer Architects	<b>b. POINT OF CONTACT NAME</b> Roger Libida	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (954) 537-9136

<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>		
<div style="display: flex; justify-content: space-around;">    </div>		

TRC Worldwide Engineering, Inc. provided structural engineering design, contract administration and inspection services on this \$10 million, two-story, 32,000 square foot library located in Hollywood, Florida.

#### Key Structural Components

- Concrete columns and masonry shear walls supported on shallow foundations on compacted fill.
- Concrete beam, precast joist and concrete roof structure.
- Structure has been designed for future 3<sup>rd</sup> floor expansion.

<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>			
<b>a.</b>	(1) FIRM NAME TRC Worldwide Engineering, Inc.	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Structural Engineer
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> 2		
<b>21. TITLE AND LOCATION (City and State)</b> McArthur High School – Phased Replacement School Broward County (Hollywood), Florida		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2002-2003</td> <td>CONSTRUCTION (if Applicable) 2004-2005</td> </tr> </table>	PROFESSIONAL SERVICES 2002-2003	CONSTRUCTION (if Applicable) 2004-2005
PROFESSIONAL SERVICES 2002-2003	CONSTRUCTION (if Applicable) 2004-2005			
<b>23. PROJECT OWNER'S INFORMATION</b>				
<b>a. PROJECT OWNER</b> The School Board of Broward County	<b>b. POINT OF CONTACT NAME</b> Frank Girardi	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (754) 321-1612		
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>				



TRC Worldwide Engineering, Inc. provided structural engineering design, contract administration and threshold inspection services on this phased replacement high school. Phase I is a 3-story, 52-classroom addition; Phase II includes 5 additional classrooms with 3 skill labs, a vocal/music building, a new physical education addition with locker rooms, a new utility building, a concession building, plus pavilions, bleachers and pool renovations.

New Construction : 94,130 GSF

**3-Story Bldg:** 60,100 SF; **2-Story Bldg:** 12,250 SF; **Gym Addition:** 11,480 SF;

**Music, Utility, Concession Bldgs:** 10,300 SF

Construction Cost : \$19.4 Million



#### 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	TRC Worldwide Engineering, Inc.	Fort Lauderdale, FL	Structural Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> 3		
<b>21. TITLE AND LOCATION (City and State)</b> Wilton Manors City Hall & Police Station Wilton Manors, Florida		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2007-2008</td> <td>CONSTRUCTION (if Applicable) 2009-2010</td> </tr> </table>	PROFESSIONAL SERVICES 2007-2008	CONSTRUCTION (if Applicable) 2009-2010
PROFESSIONAL SERVICES 2007-2008	CONSTRUCTION (if Applicable) 2009-2010			
<b>23. PROJECT OWNER'S INFORMATION</b>				
<b>a. PROJECT OWNER</b> Wilton Manors	<b>b. POINT OF CONTACT NAME</b> Michael Boss	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (954) 390-2190		
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>				



TRC Worldwide Engineering, Inc. provided structural engineering design, contract administration and inspection services for the new Design/Build \$8 million, two-story, 35,000 square foot City Hall, Police Station and Emergency Operations facility.

### Key Structural Components

- Structure supported on continuous & spread footings
- First floor is a concrete slab over steel deck & joists
- Roof level is steel joist & steel deck system
- Masonry walls and steel beams used for lateral resisting system
- Concrete eyebrows around the building



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME TRC Worldwide Engineering, Inc.	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Structural Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> 4		
<b>21. TITLE AND LOCATION (City and State)</b> City of Sunrise, Florida - Public Safety Complex & Fire Station #72		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2008-2009</td> <td>CONSTRUCTION (if Applicable) 2011</td> </tr> </table>	PROFESSIONAL SERVICES 2008-2009	CONSTRUCTION (if Applicable) 2011
PROFESSIONAL SERVICES 2008-2009	CONSTRUCTION (if Applicable) 2011			
<b>23. PROJECT OWNER'S INFORMATION</b>				
<b>a. PROJECT OWNER</b> City of Sunrise	<b>b. POINT OF CONTACT NAME</b> John Cowling	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (954) 572-2486		
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>				



**Structural engineering design, construction administration and threshold inspection services** for this \$35 million, 125,000 GSF Public Safety Complex that includes Fire Station #72. In addition to office space for the Police and Fire-Rescue departments to conduct their day-to-day operations, the 107,000-square-foot, five-story building will contain a community meeting room, holding cells, the City's Emergency Operations Center (EOC), the 911 Dispatch Center, the City's Management Information Systems Department, and a joint Training Center that includes a Weapons Firing Range.

The new four-bay, 18,000 square foot Fire Station #72 is adjacent to the Public Safety building. The station houses the Departments' Logistics Support Services.

The complex is hardened to withstand a low Category 4 hurricane

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
a.	(1) FIRM NAME TRC Worldwide Engineering, Inc.	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL
		(3) ROLE Structural Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)
		(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)
		(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)
		(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)
		(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)
		(3) ROLE



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <b>5</b>		
<b>21. TITLE AND LOCATION (City and State)</b> Coconut Creek Community Center & Pavilions Coconut Creek, Florida		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2002</td> <td>CONSTRUCTION (if Applicable) 2003</td> </tr> </table>	PROFESSIONAL SERVICES 2002	CONSTRUCTION (if Applicable) 2003
PROFESSIONAL SERVICES 2002	CONSTRUCTION (if Applicable) 2003			
<b>23. PROJECT OWNER'S INFORMATION</b>				
<b>a. PROJECT OWNER</b> City of Coconut Creek, FL	<b>b. POINT OF CONTACT NAME</b> Raj Verma	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> 954-973-6786		
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>				



TRC Worldwide Engineering, Inc. provided structural design and construction phase services on this \$7 million multi-purpose community building for the City of Coconut Creek. The project is a 39,000 total gross square feet building and includes a gymnasium, community meeting and multipurpose rooms, a weight lifting room and computer learning centers.

The structure has load bearing masonry walls, steel roof joists, composite concrete floors, shallow foundations and a concrete slab on grade.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
<b>a.</b>	(1) FIRM NAME TRC Worldwide Engineering, Inc.	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Structural Engineer
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <b>6</b>		
<b>21. TITLE AND LOCATION (City and State)</b> <b>Environmental Monitoring Laboratory</b> <b>(LEED Silver certified)</b> <b>Environmental Protection &amp; Growth Management Department</b> <b>Broward County, Florida</b>		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2006-2007</td> <td>CONSTRUCTION (if Applicable) 2008-2009</td> </tr> </table>	PROFESSIONAL SERVICES 2006-2007	CONSTRUCTION (if Applicable) 2008-2009
PROFESSIONAL SERVICES 2006-2007	CONSTRUCTION (if Applicable) 2008-2009			
<b>23. PROJECT OWNER'S INFORMATION</b>				
<b>a. PROJECT OWNER</b> Broward County, FL	<b>b. POINT OF CONTACT NAME</b> Client: Doug Snyder	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (954) 764-6575		
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>				





TRC Worldwide Engineering, Inc. provided structural engineering design, construction administration and inspection services on this new \$3.5 million, 11,000 square foot single story laboratory and office building. Environmental Monitoring is responsible for designing and conducting scientific surveys and investigations; supporting agency efforts in resource protection and environmental compliance; serving as a County-wide environmental laboratory resource; and providing technical and scientific support for other governmental and private sector entities. The facility is NELAC-certified which ensures that the highest standards of environmental sample analyses are met.

The project is LEED (Leadership in Energy and Environmental Design) Silver green building certified. Sustainable, green design produces a more efficient, higher-quality workplace environment.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) FIRM NAME TRC Worldwide Engineering, Inc.	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Structural Engineer
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



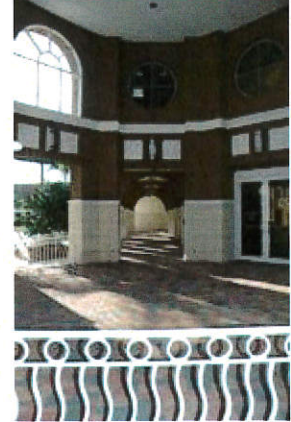
<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <div style="font-size: 1.5em; margin-top: 5px;">7</div>		
<b>21. TITLE AND LOCATION (City and State)</b> Florida International University – School of Law Miami, Florida		<b>22. YEAR COMPLETED</b> <table style="width: 100%; border: none;"> <tr> <td style="border: none; width: 50%;">PROFESSIONAL SERVICES 2003-2004</td> <td style="border: none; width: 50%;">CONSTRUCTION (if Applicable) 2005-2006</td> </tr> </table>	PROFESSIONAL SERVICES 2003-2004	CONSTRUCTION (if Applicable) 2005-2006
PROFESSIONAL SERVICES 2003-2004	CONSTRUCTION (if Applicable) 2005-2006			
<b>23. PROJECT OWNER'S INFORMATION</b>				
<b>a. PROJECT OWNER</b> Florida International University	<b>b. POINT OF CONTACT NAME</b> Frank Quintana	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (305) 348-4085		
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT</b> <i>(Include scope, size, and cost)</i>				
<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;">   <div style="position: absolute; bottom: 10px; left: 10px; background: black; color: white; padding: 2px 5px;">12/05</div> </div> <div style="flex: 2; padding-left: 10px;"> <p>TRC Worldwide Engineering, Inc. provided structural engineering design and construction administration for the University's new \$25 million College of Law located on the University Park Campus in Miami. The new Law School includes an auditorium, teaching laboratories, study centers, offices and campus support services. The project is 151,368 total gross square feet with 45% of assignable space allocated to the Law Library. The 60- and 80-seat classrooms are designed with tiered seating, and there are also two mock courtrooms, that include a Judge's bench equivalent in size to the U.S. Supreme Court.</p> <p><b>Key Structural Components</b></p> <ul style="list-style-type: none"> <li>Floor system is a reinforced concrete slab on precast concrete joists</li> <li>High-strength, load bearing concrete masonry unit exterior walls</li> <li>Shallow spread footing foundation system</li> <li>Reading room is supported by long-span, composite steel wide flange beams that float 50 feet above the auditorium below</li> <li>Auditorium walls are 35 feet high with considerable glazing, and are constructed of a structural steel frame supporting long span, open web, steel roof joists</li> </ul> <p><b>Award:</b></p> <ul style="list-style-type: none"> <li>2006 Best of - Colleges &amp; Universities Category McGraw Hill / <i>Southeast Construction</i></li> </ul> </div> </div>				
<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>				
<b>a.</b>	(1) FIRM NAME TRC Worldwide Engineering, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Structural Engineer	
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE	
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE	
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE	
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE	
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE	



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> 8
<b>21. TITLE AND LOCATION (City and State)</b> St. Lucie County – Clerk of the Courts Building Fort Pierce, FL		<b>22. YEAR COMPLETED</b> PROFESSIONAL SERVICES 2006-2007
		CONSTRUCTION (if Applicable) 2009

<b>23. PROJECT OWNER'S INFORMATION</b>		
<b>a. PROJECT OWNER</b> St. Lucie County	<b>b. POINT OF CONTACT NAME</b> Roger Shinn	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (772) 462-1431

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*



TRC Worldwide Engineering, Inc. provided structural engineering design and construction administration services on this five-story, 57,000 square foot Clerk of Court office building for St. Lucie County. The construction cost was approximately \$10 million, and work was completed in late 2009. The building is a concrete frame structure with precast concrete joists and composite concrete floor and roof slabs. The foundations are shallow concrete spread footings based on vibro-compaction improved soils. There is a freestanding pedestrian sky bridge connecting the new building to the existing St. Lucie County Courthouse building at the third level (see photo at right).



<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>			
<b>a.</b>	(1) FIRM NAME TRC Worldwide Engineering, Inc.	(2) FIRM LOCATION (City and State) Fort Pierce, FL	(3) ROLE Structural Engineer
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> 9
<b>21. TITLE AND LOCATION (City and State)</b> Port St. Lucie Civic Center Port St. Lucie, Florida	<b>22. YEAR COMPLETED</b>	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION (if Applicable) 2008

<b>23. PROJECT OWNER'S INFORMATION</b>		
<b>a. PROJECT OWNER</b> The City of Port St. Lucie, FL	<b>b. POINT OF CONTACT NAME</b> Peter Gilstad	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (561) 655-2423

**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(Include scope, size, and cost)*



TRC Worldwide Engineering, Inc. provided structural engineering design, contract administration and inspection services on this \$25 million, 100,000 square foot Civic Center. The Port St. Lucie Civic Center anchors the new downtown development - Port St. Lucie's City Center. The new facility is home to a recreational center that includes a gymnasium, fitness center, racquet ball court and game room, an Art Gallery, a banquet facility that includes a 13,460 square foot ballroom, a 5,790 conference room that can be sectioned into smaller areas, a full-size kitchen, and offices. The facility is designed as a Department of Education's Enhanced Hurricane Protection Areas (EHPA) building.

<b>25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT</b>			
<b>a.</b>	(1) FIRM NAME TRC Worldwide Engineering, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Structural Engineer
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> 10		
<b>21. TITLE AND LOCATION (City and State)</b> <b>Pompano Air Park Storage Building</b> <b>City of Pompano Beach, FL</b>		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2009</td> <td>CONSTRUCTION (if Applicable) N/A</td> </tr> </table>	PROFESSIONAL SERVICES 2009	CONSTRUCTION (if Applicable) N/A
PROFESSIONAL SERVICES 2009	CONSTRUCTION (if Applicable) N/A			
<b>23. PROJECT OWNER'S INFORMATION</b>				
<b>a. PROJECT OWNER</b> City of Pompano Beach	<b>b. POINT OF CONTACT NAME</b> Jerry Sanzone	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (954) 786-4678		
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>				

Under a Continuing Services Contract with the Architect and the City of Pompano Beach, TRC provided foundation design for a pre-manufactured metal building.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
<b>a.</b>	(1) FIRM NAME TRC Worldwide Engineering, Inc.	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Structural Engineer
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

## G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

[illegible]

## 29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Hollywood Community Library	6	Broward County Environmental Monitoring Laboratory
2	McArthur High School – Phased Replacement School	7	Florida International University – School of Law
3	Wilton Manors City Hall & Police Station	8	St. Lucie County Clerk of the Courts Building
4	City of Sunrise Public Safety Complex & Fire Station #72	9	Port St. Lucie Civic Center
5	Coconut Creek Multi-Purpose Building	10	Pompano Air Park Storage Building Foundation Design



#### H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

TRC Worldwide Engineering, Inc. (TRC), founded in Fort Lauderdale in 1967 as Jenkins & Charland, provides structural engineering services to a wide variety of clients throughout the United States. The Structural Division of TRC has offices in Fort Lauderdale, Fort Myers, Fort Pierce, Jacksonville, Sarasota and Tampa FL, Atlanta GA, Nashville TN, Indianapolis IN, Dallas TX, and Scottsdale AZ, and current professional structural and support staff of forty-nine people.

TRC is actively involved in the design of new construction and keeps current on state-of-the-art design techniques. Through knowledge of conventional construction practices, our engineers apply those techniques for a cost-effective, constructable project.

With more than forty-seven years structural experience, TRC has built its professional reputation on sound technical abilities, preparation of thorough contract documents, and complete contract administration services. TRC's philosophy has always been to integrate cost effective structural design solutions into the overall design process, and maintain a close client and regulatory coordination throughout the life of the project and beyond.

**The Fort Lauderdale office of TRC, established in 1967, has worked on a number of continuing service structural engineering projects over the past twenty-plus years. Currently, the Fort Lauderdale office of TRC has structural continuing service contracts with Broward County Sheriff's Office, City of Homestead, City of Miami Gardens, and the City of Marathon.**

As professional engineers, the firm endorses and follows the highest ethical standards of professional engineering principles and is proud of the professional relationships we have maintained with the clients who have engaged our services.

We believe that teamwork and diversity results in design solutions tailored to meet each client's goals. Through experience, our clients know TRC doesn't simply complete the project, but also builds strong, long-term relationships.

In addition to "typical" structural design services, TRC established the Restoration Division in 1992 to focus on existing structures and the unique issues that are separate from new construction - issues such as the environment, particularly in coastal areas. Within the past nineteen years, TRC's Restoration staff has helped building owners from Tallahassee to Key West with resourceful, cost-effective solutions to improve and maintain their property.

TRC's design professionals constantly monitor, evaluate and improve management, technology, and project delivery systems to ensure our clients receive the most current and appropriate project solutions. We are known for quality control and quick response and have expertise in many complex analysis platforms such as ETABS, Ram Steel, RISA-3D, SDS/2, AutoCAD and REVIT. Rated in the top 500 by *Engineering News Record*, TRC prides itself in upholding the spirit of its philosophy - **Service - Innovation - Quality**.

**BUILDING STRUCTURES:** Initial structural studies and economic reports; Preliminary planning and design; Final design and preparation of construction documents; Construction and threshold inspections

#### **THRESHOLD INSPECTIONS**

**BRIDGES:** Preliminary studies, design and preparation of construction documents; Construction Inspections; Structure inventory and appraisal reports

**CIVIL STRUCTURES:** Seawalls; Water and wastewater treatment structures; Marinas and docks; Water control structures; Design and support services during construction

**INDIVIDUAL STRUCTURAL COMPONENTS:** Component designs and drawings for manufacturers and fabricators

**REHABILITATION AND RECONSTRUCTION DESIGN:** Historical structure rehabilitation design; Damaged structure repair design

#### **STRUCTURAL ADEQUACY INVESTIGATIONS & REPORTS**

#### **I. AUTHORIZED REPRESENTATIVE**

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

5/27/2014

33. NAME AND TITLE

Derek A. Wassink, P.E., R.A., S.I., LEED AP, President, Structural Engineering Group



**ARCHITECT – ENGINEER QUALIFICATIONS**1. SOLICITATION NUMBER (If any)  
RFQ No.: 4421-14-RD**PART II – GENERAL QUALIFICATIONS**

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME TRC Worldwide Engineering, Inc.			3. YEAR ESTABLISHED 2006	4. DUNS NUMBER 12-805-5733
2b. STREET 3590 NW 56 <sup>th</sup> Street			5. OWNERSHIP	
2c. CITY Fort Lauderdale			a. TYPE Corporation	
2d. STATE FL			b. SMALL BUSINESS STATUS No	
2e. ZIP CODE 33309			7. NAME OF FIRM (If block 2a is a branch office) TRC Worldwide Engineering, Inc.	
6a. POINT OF CONTACT NAME AND TITLE Derek A. Wassink, P.E., R.A., S.I., LEED AP President, Structural Engineering Group				
6b. TELEPHONE NUMBER 954-484-7777		6c. E-MAIL ADDRESS dwassink@trcww.com		
8a. FORMER FIRM NAME(S) (If any) Jenkins & Charland, Inc. Jenkins & Charland/TRC Worldwide Engineering, Inc.			8b. YR. ESTABLISHED 1967 2000	8c. DUNS NUMBER

**9. EMPLOYEES BY DISCIPLINE****10. PROFILE OF FIRM'S EXPERIENCE AND  
ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS**

a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
57	Structural Engineers	24	5	E02	Educational Facilities; Classrooms	3
08	CADD Technician	12	2	O01	Office Buildings; Industrial Parks	2
15	Construction Inspector	4	2	H06	High Rise; Air-Rights-Type Bldgs.	2
02	Administrative	6	2	L04	Libraries; Museums; Galleries	1
	Restoration Project Managers	3	1	S09	Structural Design; Special Structures	2
				A11	Auditoriums & Theaters	1
				G01	Garages; Vehicles Maintenance Facilities; Parking Decks	2
				H10	Hotels; Motels	3
				H11	Housing (Residential, Multi-Family, Apartments; Condominiums)	3
				B02	Bridges	2
				D07	Dining Halls; Clubs; Restaurants	1
				W01	Warehouses & Depots	1
				R06	Rehabilitation (Buildings; Structures; Facilities)	3
				R04	Recreation Facilities (Parks, Marinas)	1
				P13	Public Safety Facilities	3
				F02	Field Houses; Gyms; Stadiums	1
				C10	Commercial Building (low rise); Shopping Centers	2
	Other Employees					
<b>Total</b>		49	12	H09	Hospital & Medical Facilities	3

**11. ANNUAL AVERAGE PROFESSIONAL SERVICES  
REVENUES OF FIRM  
FOR LAST 3 YEARS**  
(Insert revenue index number shown at right)**PROFESSIONAL SERVICES REVENUE INDEX NUMBER**


a. Federal Work	1
b. Non-Federal Work	7
c. Total Work	7

1. Less than \$100,000
2. \$100,000 to less than \$250,000
3. \$250,000 to less than \$500,000
4. \$500,000 to less than \$1 million
5. \$1 million to less than \$2 million

6. \$2 million to less than \$5 million
7. \$5 million to less than \$10 million
8. \$10 million to less than \$25 million
9. \$25 million to less than \$50 million
10. \$50 million or greater

**12. AUTHORIZED REPRESENTATIVE**

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 5/27/2014
c. NAME AND TITLE Derek A. Wassink, P.E., R.A., S.I., LEED AP, President, Structural Engineering Group	

25



## TRC Worldwide Engineering, Inc.

### Project Role: Professional Structural Engineers

TRC is a national firm with offices in Florida, Arizona, Georgia, Illinois, Indiana, Pennsylvania, Tennessee, and Texas. Florida structural offices are listed below.

**Headquarters:** 217 Ward Circle  
Brentwood, TN 37027  
Phone: (615) 661-7979  
Fax: (615) 661-0644

**Responsible Office:** 3590 NW 56<sup>th</sup> Street  
Fort Lauderdale, FL  
Phone: (954) 484-7777  
Fax: (954) 484-7834

**Key Firm Contact:** Derek Wassink, P.E, R.A., S.I., LEED AP  
President, Structural Engineering Group  
Phone: (954) 484-7777  
Fax: (954) 484-7834  
E-Mail: [dwassink@trcww.com](mailto:dwassink@trcww.com)

**Key Personnel:** **Derek Wassink, P.E, R.A., S.I., LEED AP**  
Project Manager/Principal  
**Jeffrey D. McGee, P.E., S.I.**  
Engineering Manager

Fort Lauderdale Personnel:	Professional Engineers	4
	CADD Technicians	2
	Inspectors	2
	Restoration Project Manager	1
	Administrative	2

**Additional FL Offices:** 11926 Fairway Lakes Drive, Ft. Myers, FL 33913  
2011 S. 25<sup>th</sup> Street, #211, Ft. Pierce, FL 34947  
2955 Hartley Road, #104, Jacksonville, FL 32257  
8340 Consumer Court, Sarasota, FL 34240  
3820 Northdale Blvd., Suite 210B, Tampa, FL 33624

**Incorporated:** Fort Lauderdale, Florida; 1967  
**Former Names:**  
1967 – 2000: Jenkins & Charland, Inc.  
2000 – 2008: Jenkins & Charland / TRC Worldwide Engineering, Inc.  
2008 – Present: TRC Worldwide Engineering, Inc.

**State of Incorporation:** Florida  
**Federal ID Number:** 62-1803853  
**Dun & Bradstreet Number:** 12-805-5733  
**Certificate of Authorization:** Florida #27322  
**Corporate Charter:** F06000007320



**TRC Worldwide Engineering, Inc.**

# State of Florida

Board of Professional Engineers

Attests that

**TRC Worldwide Engineering, Inc.**



is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Expiration: 2/28/2015

Audit No: 228201503000

Certificate of Authorization

CA Lic. No:

27322

## *State of Florida Department of State*

I certify from the records of this office that TRC WORLDWIDE ENGINEERING, INC. is a Tennessee corporation authorized to transact business in the State of Florida, qualified on November 27, 2006.

The document number of this corporation is F06000007320.

I further certify that said corporation has paid all fees due this office through December 31, 2014, that its most recent annual report/uniform business report was filed on January 6, 2014, and its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Sixth day of January, 2014*



*Ken Detjen*  
**Secretary of State**

Authentication ID: CC8076464906

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.

<https://efile.sunbiz.org/certauthver.html>



TRC Worldwide Engineering, Inc. (TRC), founded in Fort Lauderdale in 1967 as Jenkins & Charland, provides structural engineering services to a wide variety of clients throughout the United States. The Structural Division of TRC has offices in Fort Lauderdale, Fort Myers, Fort Pierce, Jacksonville, Sarasota and Tampa FL, Atlanta GA, Nashville TN, Indianapolis IN, Dallas TX, and Scottsdale AZ, and current professional structural and support staff of forty-nine people. In addition, TRC Worldwide Engineering has offices in Springfield IL, Allentown and York PA.

TRC is actively involved in the design of new construction and keeps current on state-of-the-art design techniques. Through knowledge of conventional construction practices, our engineers apply those techniques for a cost-effective, constructable project.

With more than forty-seven years structural experience, TRC has built its professional reputation on sound technical abilities, preparation of thorough contract documents, and complete contract administration services. TRC's philosophy has always been to integrate cost effective structural design solutions into the overall design process, and maintain a close client and regulatory coordination throughout the life of the project and beyond.

As professional engineers, the firm endorses and follows the highest ethical standards of professional engineering principles and is proud of the professional relationships we have maintained with the clients who have engaged our services.

We believe that teamwork and diversity results in design solutions tailored to meet each client's goals. Through experience, our clients know TRC doesn't simply complete the project, but also builds strong, long-term relationships.

In addition to "typical" structural design services, TRC established the Restoration Division in 1992 to focus on existing structures and the unique issues that are separate from new construction - issues such as the environment, particularly in coastal areas. Within the past twenty-two years, TRC's Restoration staff has helped building owners from Tallahassee to Key West with resourceful, cost-effective solutions to improve and maintain their property.

TRC's design professionals constantly monitor, evaluate and improve management, technology, and project delivery systems to ensure our clients receive the most current and appropriate project solutions. We are known for quality control and quick response and have expertise in many complex analysis platforms such as ETABS, Ram Steel, RISA-3D, SDS/2, AutoCAD and REVIT. Rated in the top 500 by *Engineering News Record*, TRC prides itself in upholding the spirit of its philosophy - **Service – Innovation – Quality**.

#### **BUILDING STRUCTURES:**

Initial structural studies and economic reports; Preliminary planning and design; Final design and preparation of construction documents; Construction and threshold inspections

#### **THRESHOLD INSPECTIONS**

#### **BRIDGES:**

Preliminary studies, design and preparation of construction documents; Construction Inspections; Structure inventory and appraisal reports

#### **CIVIL STRUCTURES:**

Seawalls; Water and wastewater treatment structures; Marinas and docks; Water control structures; Design and support services during construction

#### **INDIVIDUAL STRUCTURAL COMPONENTS:**

Component designs and drawings for manufacturers and fabricators

#### **REHABILITATION AND RECONSTRUCTION DESIGN:**

Historical structure rehabilitation design; Damaged structure repair design

#### **STRUCTURAL ADEQUACY INVESTIGATIONS & REPORTS**



## **Services**

### **Structural Engineering Specialty Precast Engineering and Detailing Structural Steel Detailing**

#### **Aspects of our Structural Engineering Include:**

- Structural planning and schematic design
- Framing / foundation design for new buildings
- Renovation / adaptive reuse of existing structures
- Design of retaining structures and foundations
- Building component design / analysis
- Investigation and analysis of damaged structures
- Load capacity analysis
- Site observation and special inspection during construction phase
- Construction support services
- Forensic investigation / expert witness testimony

**AS THE STRUCTURAL ENGINEER OF RECORD  
TRC WILL MAKE YOUR PROJECT SUCCESSFUL**

## Similar Municipal Projects & Representatives

	Project Name	Date Completed	Client Name Address Telephone
1.	<b>City of Oakland Park:</b> Renovate existing 2-story 1970's building that houses Oakland Park city administration and BSO to meet current wind forces	2010	Harris Hamid, P.E., Director City of Oakland Park Engineering & Development Department 5399 North Dixie Hwy, Ste 3 Oakland Park, FL 33334 / 954-630-4477
2.	<b>City of Sunrise Public Safety Complex:</b> Structural engineering design, construction administration and inspection services on this 125,000 GSF, hardened to withstand a low Category 5 hurricane; police, fire rescue, EOC, training center	2011	Ian Reeves, AIA, IALEP, President Architects Design Group 333 North Knowles Avenue Winter Park, FL 32789 407-647-1706
3.	<b>Village of Islamorada Admin. Center, Fire Station #21 &amp; Public Safety Headquarters:</b> Structural engineering design, construction administration and inspection services for the Design/Build, \$5 million new City Hall Administrative Building and Fire Station No. 21.; Designed to withstand 150 MPH hurricane event	2010	Mario Cartaya, RA, Principal Cartaya & Associates, Architects PA 2400 E. Commercial Blvd., Ste 415 Fort Lauderdale, FL 33308 954-771-2724
4.	<b>Deerfield Beach Elementary School Auditorium Historical Renovation:</b> Structural engineering investigation, assessment, evaluation, Project Management & full construction documents for the necessary repairs of this 85 year old, historic building	2010	Broward County Schools Construction & Facilities Dept. Gerald Devio 754-321-1598
5.	<b>Wilton Manors City Hall &amp; Police Station:</b> Structural engineering design, construction administration and inspection services for the new \$8 million, two-story, 35,000 square foot Design/Build City Hall, Police Station and Emergency Operations facility.	2010	Abbas Zackria, Principal Walters Zackria Associates 620 SE 1 <sup>st</sup> Street Fort Lauderdale, FL 33301 954-522-4123



## City of Sunrise Public Safety Complex Sunrise, Florida



TRC Worldwide Engineering, Inc. provided structural engineering design and contract administration services for this \$35 million Public Safety Complex. The complex, hardened to withstand a low Category 5 hurricane, includes facilities for the Police Department, Fire-Rescue Administration, a Municipal Emergency Operations Center (EOC) and a joint Training Center that includes a Weapons Firing Range.

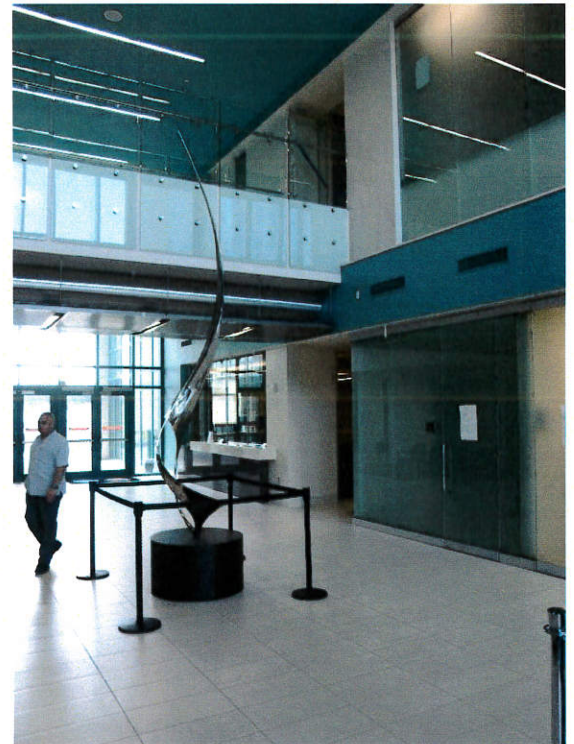
### Key Structural Components

- A composite concrete floor system with precast concrete joists, soffit beams and cast in place concrete beams.
- Concrete columns, and shear walls
- High performance impact resistant glazing systems to mitigate catastrophic events
- Emergency call center floating slab

### Design Team

Architect : Architects Design Group, Inc.  
 Contractor : Stiles Construction Company  
 Structural Engineer : TRC Worldwide Engineering, Inc.  
 New Construction : 125,000 GSF  
 Construction Cost : \$30 Million

Contact: City of Sunrise  
 John Cowling; (954) 572-2486  
 Completed: 2011 (Complex)



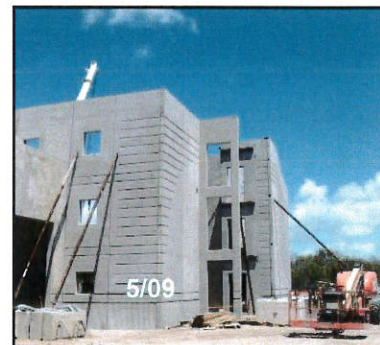


**Village of Islamorada Administrative Center,  
Fire Station #21 & Public Safety Headquarters**  
Islamorada, Florida Keys



TRC Worldwide Engineering, Inc. provided structural engineering design, contract administration and inspection services for this Design/Build, \$5 million new City Hall Administrative Building and Fire Station No. 21. The 13,647 square foot City Hall is a three story office and conference facility. The 2,509 square foot, single story Fire Station includes a 20 foot high garage with two vehicle bays, four sleeping quarters, laundry, a full kitchen, exercise room and hazmat decontamination chamber.

The structure is designed to withstand 150 mile per hour hurricane events.



**Key Structural Components**

- Hollow core slabs; composite concrete slab over precast joists
- Precast concrete walls & stairs
- Pile caps with auger cast pile foundation
- Structural concrete ground floor slab supported on grade beams

**Design Team**

Architect : Cartaya & Associates, Architects, P.A.  
Contractor : Biltmore Construction  
Structural Engineer : TRC Worldwide Engineering, Inc.  
New Construction : 16,156 GSF  
Construction Cost : \$5 Million

Contact: Myles Milander; (305) 664-6451  
Design Start: 2008  
Completion: 2010

**Award:**  
2010 Building of America Gold Medal





## Deerfield Beach Elementary School Auditorium Deerfield Beach, Florida



TRC Worldwide Engineering, Inc. provided structural engineering investigation, assessment, evaluation, Project Management and full construction documents for the necessary repairs of this beautiful, 85 year old, historic building.



### Key Structural Components

- Existing wood roof members were showing signs of extensive rot and termite damage.
- TRC investigated every member of the entire roof framing system to determine the extent of the damage. We then provided a written report to document the damage, calculate repair quantities, and describe general repair recommendations.
- TRC then performed a structural analysis and furnished a full set of construction documents detailing the necessary repairs and retrofit strengthening details.
- All repairs and strengthening procedures were developed while keeping in mind the sensitive nature of the salient Historic aspects and details, as originally designed and constructed.

### Design Team

Owner:	Broward County Schools
Structural Engineer:	TRC Worldwide Engineering, Inc.
Architect and MEP:	Broward Schools
	- Construction & Facilities Department In-house Staff



## Wilton Manors City Hall & Police Station

Wilton Manors, Florida



TRC Worldwide Engineering, Inc. provided structural engineering design, construction administration and inspection services for the new \$8 million, two-story, 35,000 square foot Design/Build City Hall, Police Station and Emergency Operations facility.

### Key Structural Components

- Structure supported on continuous and spread footings
- First floor is a concrete slab over steel deck & joists
- Roof level is steel joist & steel deck system
- Masonry walls and steel beams used for lateral resisting system
- Concrete eyebrows around the building

### Design Team

Contractor : MBR Construction, Inc.  
Structural Engineer : TRC Worldwide Engineering, Inc.  
New Construction : 35,000 GSF  
Construction Cost : \$8 Million

Fixed Fee : \$53,000

#### Dates

Commencement : 2008  
Completion : 2010





## Tri-Rail Station Hollywood, Florida



TRC Worldwide Engineering, Inc. provided structural engineering design and contract administration on this Tri-Rail Station in Hollywood, Florida. Passengers can connect to Broward County Transit Route 7 and Amtrak, with available parking and cab service at the station.

Tri-Rail is the convenient and affordable way to commute throughout the South Florida region, from Miami to West Palm Beach.

### Key Structural Components

- Shallow foundations
- Slab-on-grade on compacted fill
- Tube steel columns
- Roof framing of tube steel roof trusses
- Redwood nailers
- 2 x 6 pressure treated, tongue & groove wood decking



**Structural Engineer : TRC Worldwide Engineering, Inc.**

New Construction : 26, 000 GSF  
Construction Cost : \$2.8 Million



**Broward County Emergency Operations Center**  
Plantation, Florida

TRC Worldwide Engineering, Inc. provided structural engineering design, contract administration and threshold services for the Design/Build Emergency Operations Center Office Building that serves as Broward County's Emergency Command Center and 911 Backup Facility. The three-story, 42,000 square feet, poured-concrete building has no windows, and was built to withstand winds of 175 mph. Three stories were constructed, with designs for two future floors. Completed in February 1997, this hardened structure, with its steel-reinforced concrete walls, allows rescue services, public works, firefighting, transportation, communications, medical services and other necessary services to continue during the event of an emergency.

**Key Structural Components**

- Facility rests on 1,250 auger- cast piles set 45' deep
- 300,000 concrete blocks
- Composed of 90,000 lin. ft. of precast beams and joists, over 38,000 cu. yds. of concrete, 3,000 tons of reinforcing steel and 7,500 tons of roof ballast
- Typical floors rated at 180 pounds/sq.ft.; building corners at 300 pounds/sq.ft.

**Design Team**

Architect : Scharf & Associates, Inc.  
Structural Engineer : TRC Worldwide Engineering, Inc.  
New Construction : 42,000 GSF  
Construction Cost : \$5 Million



## Coconut Creek Community Center and Pavilions

Coconut Creek, Florida



TRC Worldwide Engineering, Inc. provided structural engineering design, contract administration and special inspections on this two-story, 36,000 square foot, multi-purpose building, detached restroom facility and pavilions. The building includes a 9,500 square foot gymnasium, lockers, showers, offices, fitness and meeting rooms.



### Key Structural Components

- Load bearing masonry walls
- Precast joist with composite concrete slab second floor system
- Metal deck and steel joist roof system
- Shallow concrete spread footings
- Many special steel joists, including curved top chords



### Design Team

Architect : Scharf & Associates, Inc.  
 Contractor : Bluewater Builders  
 Structural Engineer : TRC Worldwide Engineering, Inc.  
 New Construction : 36, 000 GSF  
 Construction Cost : \$5 Million



## FDOT- Fort Lauderdale Amtrak Train Station Fort Lauderdale, Florida



TRC Worldwide Engineering, Inc. provided structural engineering services for the renovation, restoration and reinforcing of the FDOT Amtrak Train Station located in Fort Lauderdale, FL. The original station was constructed in 1926 and is considered an Historic Building. TRC provided design of repairs and strengthening to upgrade the wind resistance of structural members.

### Key Structural Components

- Existing building consists of tongue and groove wood roof deck supported by wood purlins and beams.
- Existing load bearing CMU walls had to be modified for new windows.
- The wood roof rafters of the canopy had rot and deterioration. The wood roof members had limited wind resistance and TRC sensitively designed a retrofit connection.
- The canopy roof structure is supported by an unusual heavy timber truss at each cast iron column.
- TRC upgraded the structural details for the Wood Canopy Overhang with Chain Structure



### Design Team

Owner : FDOT  
Structural Engineer : TRC Worldwide Engineering, Inc.



## Representative Municipal Projects

Plantation City Hall, FL (\$1.5 mil)	Indian River County
City of Sunrise FL (\$ 35 mil)	- Emergency Operations Center (\$4.8 million)
Public Safety Complex & Fire Station #72	Vero Beach, FL
Wilton Manors City Hall & Police Station (\$8 mil)	Brighton Reservation, Seminole Tribe of FL
Broward County FL (\$14 mil)	- Public Safety & Administration Campus (\$20 mil)
- Courthouse & 2300-space Parking Garage	- Forestry & Wildland Fire Station (\$600,000)
Broward County (\$5 mil)	Collier County, FL (\$10 mil)
- Emergency Operations Center, Plantation, FL	- Development Services Addition
Duval County FL (\$280 mil)	& 400-space Parking Garage
- Courthouse (design)	St. Lucie County (\$6 mil)
City of Jacksonville FL (\$12 mil)	- Baling & Recycling Facility
- New City Hall Annex	Lee County, FL (\$10.5 mil)
Indian River County FL (\$4.8 mil)	- Constitutional Complex
Emergency Operations Center	West Regional Courthouse (\$6.2 mil)
Sarasota Police Dept. Hdqtrs FL (\$40 mil)	Plantation, Florida
787 Highlands County FL (\$11 mil)	Port St. Lucie City Hall, FL (\$7 mil)
Sheriff's Administration Building	St. Lucie County FL (\$1.2 mil)
Cape Coral Police Hdqtrs FL (\$21 mil)	- Fire District Airport Rescue &
Village of Islamorada FL (\$5 mil)	Fire Fighting Facility
- Administrative Center, Fire Station #21, &	St. Lucie County FL (\$3.5 mil)
Public Safety Headquarters	- Fire District Administrative Office Building
City of Miramar FL (\$500,000)	Carroll County GA (\$22 mil)
- Administration Building	- Judicial Center
Indian River County FL (\$30 mil)	DEA / ATF Facility (4.5 mil)
- Administration Building	Birmingham AL
Sarasota Solid Waste Operations	FBI – Birmingham Field Office (\$50 mil)
- Administration Office	Punta Gorda, FL (\$3 mil)
St. Lucie County, FL (\$7 mil)	- Public Safety Building
- Clerk of Courts Building	North Port Multi-use Facility (\$1.5 mil)
St. Lucie County, FL (\$1.8 mil)	(used as hurricane shelter)
- Public Defenders Office	City of North Port, FL
(designed for 2 future floors/15,000 sq.ft. addition)	Collier County, FL (\$46 mil)
St. Lucie County, FL (\$500,000)	- Emergency Operations Center
- Emergency Operations Center Annex	Lee County, FL (\$8.5 mil)
4 <sup>th</sup> District Court of Appeals (\$1.5 mil)	- Community Development & Public Works Center
- Judges Chamber Addition	Marathon Fire Station #14 (\$6.1 mil)
West Palm Beach, FL	FL Keys
Martin County, FL (\$10 mil)	Fire Station #13 (\$800,000), St. Lucie Co. FL
- Public Safety Complex	Fire Station #10 (\$2.5 mil)
Collier County, FL (\$1.5 mil)	- Ft. Lauderdale/Hollywood Internat'l Airport
- Medical Examiners Facility	Fort Lauderdale, FL
Okeechobee Police Station FL (\$300,000)	North Fire Station (\$2 mil), Palm Beach FL
- Addition/Renovation	North River Fire Stations, Manatee FL
Savannah GA (\$40 mil)	- #1, #4, #6 (\$600,000 each)
- Federal Courthouse (design)	Fire Stations, City of Cape Coral FL
Collier County Courthouse (\$18 mil)	- #1, #4, #8 & #9 (\$2.6 mil each); #3 (\$1.7 Mil)
Naples, FL	Fire Station #11 (\$1.2 mil), Sarasota Co. FL

**Continuing Services Contracts**

Broward County Sheriff's Office	2013 – 2018
- Professional Structural Engineering Services	
City of Miami Gardens, FL	2013 - 2015
- Professional Architectural/Engineering Services/ Professional Fees \$50,000-\$200,000	
City of Homestead (with no time limit)	2013
- Professional Structural Engineering Services for Various Projects	
City of Marathon, Florida Keys	2009 – 2015
- Professional Structural Engineering Services/Miscellaneous Projects	
City of Cape Coral, FL	2010 – 2015
- Miscellaneous Professional Structural Engineering Services	
Collier County Continuing Services Contract	1999 – 2019
- Structural Engineering, including Bridge and Weir Design	
City of Fort Myers, FL	2009 – 2014
- Miscellaneous Structural Engineering Services	
City of Fort Myers Beach, FL	2011 – 2014
- Miscellaneous Structural Engineering Services	
City of North Port, FL	2008 – 2014
- Professional Services Library (Structural Engineering)	
St. Lucie County Continuing Services Contract	2003 – 2013
St. Lucie Public Schools	2012 – 2015
- Structural Engineering Services-Facilities	
City of Tampa	2004 - 2015
- Miscellaneous Structural Engineering Services	
School Board of Broward County	On-Going
- Miscellaneous Engineering Assignments	
Florida Atlantic University – Continuing Contract	On-Going
- Miscellaneous Engineering Assignments	
Martin Memorial Healthcare System	On-Going



## Litigation

No claims have been made against TRC in the past two years.

### PROFESSIONAL FEES OWED TO TRC (COLLECTION EFFORTS)

NAME	ACTION	STATUS	REMARKS
Ambassador Condo Repairs	Circuit Court	Settled	12/1/10
Ocean Heritage Condo Repairs	Lien	Settled	4/1/2010
Investcorp, Royal Palm Hotel	Small Claims Court	Settled	5/2009
MLG Brickell	Small Claims Court	Settled	4/2009
Century Village Ventnor B	Small Claims Court	Settled	8/2009
Deborah Miculinic	Small Claims Court	Dropped	8/2009
Round Island Plantation LLC	Small Claims Court	Judgement	8/2010 in TRCWW Favor
Sylla Architects, Tampa	Circuit Court	Judgement	10/2009 in TRCWW Favor
PGAL Architects	Circuit Court	Settled	8/2008
Cole Scott & Kissane PA	Small Claims Court	Judgement	3/18/13 in TRCWW Favor

### PROFFESIONAL LIABILITY ERRORS & OMISSIONS

PROJECT	Status
Ellis Square Parking Garage, Savannah, GA	Lawsuit in Georgia regarding preliminary foundation costs: Settled
Hallendale Elementary School	SBBC statute 558 Notice on Hallendale Elementary School CO
	Claim to HADP; Noticed 4/20/2010, no activity, still pending
Plantation High School	SBBC statute 558 Notice on Plantation High School CO
	Claim to PGAL Architects; Noticed 11/2012 settled
Bel Mare Condo Assoc.	4/24/2012 Lawsuit Pending.
B.E.M.F.	8/24/2012 Lawsuit Pending,



**Derek A. Wassink, P.E., R.A., S.I., LEED AP**  
 President, Structural Engineering Group  
 Project Principal

## PROFESSIONAL EXPERIENCE

As President of the Structural Engineering Group of TRC Worldwide Engineering, Inc., Mr. Wassink is responsible for managing design teams and project management for both public and private sector clients. Responsibilities include contract negotiations, analyzing work load and projecting manpower needs, development of plans and specifications, design team management, quality assurance, construction contract administration and project follow-through and coordination with all individuals involved in the successful completion of our projects.

Mr. Wassink has more than twenty-three years experience in the design of municipal facilities, educational facilities, high-rise buildings, healthcare facilities, churches, clubhouses, building restoration, office buildings, roads, bridges, industrial plants, and parking garages.

Mr. Wassink, a LEED Accredited Professional, is the Group President of the Structural Group, with offices in Fort Lauderdale, Fort Myers, Fort Pierce, Jacksonville, Sarasota and Tampa, Florida; Atlanta, Georgia; Indianapolis, Indiana, Phoenix, AZ; Dallas, TX; and Nashville, TN.

## YEARS EXPERIENCE

Total Years Experience: 23

## PROFESSIONAL REGISTRATION

Registered Professional Engineer:

Florida: PE 55303

Pennsylvania: PE 045286

New Mexico: PE 20408

Special Inspector/Threshold Buildings

Florida: 7020100

Registered Architect: NY #034567

## EDUCATION

Master of Civil Engineering/1998

- Villanova University

Bachelor of Science in Civil Engineering/1987

- Princeton University

## PROFESSIONAL AFFILIATIONS

American Consulting Engineers Council (ACEC)

Member of FEMA -

Urban Search and Rescue Florida Task Force 1

-Structures Specialist

## Principal-in-Charge for projects that include:

- City of Oakland Park-Public Administration Bldg Assessment (Bldg constructed in 1970)
- Deerfield Beach Elementary School-Historic Auditorium Restoration
- Amtrak-FDOT Historic Restoration, Ft. Lauderdale
- \$20 million Brighton Reservation Public Safety & Administration Campus for the Seminole Tribe of Florida
- \$4.6 million, 13,600 GSF Village of Islamorada Administrative Center, Fire Station #21 & Public Safety Headquarters (withstand winds of 150 mph)
- \$25 million Port St. Lucie Civic Center - 100,000 SF public facility
- \$8 million, 35,000 sq.ft. Wilton Manors City Hall, Police Station and Emergency Operations facility
- \$35 million, 132,000 GSF, Public Safety Complex for the City of Sunrise, FL (withstand a low Category 4 hurricane)
- \$46 million, 110,000 sq.ft. Collier County Emergency Operations Center in Naples, FL,
- \$6.1 million, 17,500 GSF Fire Station #14 for the City of Marathon, FL (withstand winds of 195 mph)
- \$3.5 million, LEED Certified Environmental Protection Department Laboratory in Broward County
- NAP of the Americas (formerly TECOTA) - \$53 million, design/build award-winning, fast-track, concrete building in Miami; 6-stories, 160' high, 750,000 sq.ft. concrete, telecommunications "hotel" that took only 15 weeks from the start of design to topping off of the structural shell. The building is state-of-the-art, highly secure, and disaster resistant (500-year flood plane).
- The W Fort Lauderdale Resort, a \$225 million, 2-tower, 23-story hotel and residences with a 5-level enclosed parking garage located on Fort Lauderdale Beach
- Seminole Hard Rock Resort & Casino Parking Garage - 1,000,000 sq.ft., 7-level, 2500-car steel parking garage in Broward County
- Boca Colonnade is a LEED certified 4-story, 100,000 sq.ft. Class A office building with a separate 4-story, 158,000 sq.ft., 365-space parking garage





**Jeffrey D. McGee, P.E., S. I.**  
Project Manager

## PROFESSIONAL EXPERIENCE

As a Principal of TRC Worldwide Engineering, Inc., Mr. McGee has extensive experience in project design for a full range of publicly and privately funded projects including municipal, educational, governmental, institutional, high-rise and commercial work. He has demonstrated his expertise in designs incorporating the full spectrum of engineered materials including wood, aluminum, steel and concrete.

With more than twenty-six years' experience, he is able to effectively manage both small and large-scale projects while providing a high level of service to the client.

Mr. McGee views each project with a fresh approach and provides functional solutions within budget and on schedule.

## YEARS EXPERIENCE

Total Years' Experience: 26

## PROFESSIONAL REGISTRATION

Registered Professional Engineer:

FL 45944

TX 103066

MT 18011PE

Special Inspector of Threshold Buildings

- FL SI 1114

## EDUCATION

University of South Florida, 1987

- Bachelor of Science in Civil Engineering  
specializing in Structural

University of South Florida, 1984

- Bachelor of Fine Arts

## PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

American Concrete Institute

Prestressed Concrete Institute

## Principal-in-Charge for projects that include:

St. Lucie County Clerk of Courts

St. Lucie County Fire District

- Admin. Complex and Maintenance Facility

St. Lucie County Public Defender's Office

St. Lucie Fire District - Fire Stations #2 & #13

St. Lucie Fire District - Fire Station #6 (mark-up)

St. Lucie County - Fire Station FEMA Enhancements

St. Lucie County - Judicial Complex Renovation

St. Lucie County - Courthouse Annex Renovation

St. Lucie County Emergency Operations Center

- Annex Building

Intermodal Transfer Transit Facility, St. Lucie County

Bus Facility-Transportation Dept.

- Indian River Co. Schools

Indian River County Emergency Operations Ctr.

Indian River County - Fire Stations #2, #4 & #5

Martin County Public Safety Complex

Martin County Administration Building

- Investigation & Report

Martin County Courthouse - Break Room Addition

Martin County Community Center

Indian River County Administrative Complex

Port St. Lucie City Hall

Plantation City Hall

4th District Court of Appeals - Judges Chamber Addition

Jonathan Dickinson State Park, Jupiter

- Environmental Education Research Center

- Bath house

(2) Splash Parks, St. Lucie County

North County Park Pool Building, Indian River County

Smithsonian Aquarium Building, Vero Beach

South County Park-Phase II, Indian River County

Martin County Community Center

Jungle Trail/Pelican Isle, Indian River County

- Restroom Facility & Timber Observation Tower

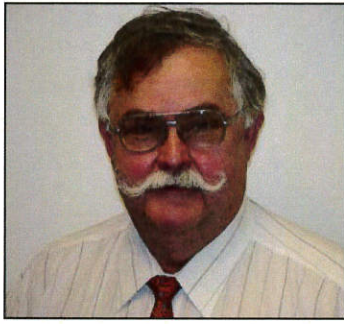
Hugh Taylor Birch State Park Restroom Facility, Ft. Lauderdale

I. Lewis Ellis Memorial Park, Vero Beach

Harris Field Park & Community Center, Homestead

Bowditch Point Regional Park, Fort Myers Beach





**David O. Charland, P.E., S.I.**  
Regional Director  
In-House QA/QC Review

## PROFESSIONAL EXPERIENCE

For a half century, Mr. Charland has provided high quality structural engineering design and project management expertise on hundreds of diverse residential, commercial, and institutional projects throughout the State Of Florida.

Mr. Charland's project experience includes high rise condominiums, **Fort Lauderdale-Hollywood International Airport Terminal 1- Concourse B & C**; the award-winning, fast-track, concrete, \$126 million **NAP of the Americas** (formerly **Technology Center of the Americas**) in Miami. Mr. Charland was instrumental in the selection and design of construction chosen for a 120' high, 750,000 square foot concrete telecommunications "hotel" that took only 25 weeks from the start of design to topping off of the structural shell.

Mr. Charland's other experience includes **structural engineering** design and project management of municipal facilities, high-rise office buildings, hotels and resorts, aviation facilities, educational facilities, libraries, correction centers, heavy marine, roads, bridges, building restoration, industrial plants, and parking garages, and practically all types of structures encountered in the field of civil engineering.

Mr. Charland served a second 4-year term as a Member of the **Florida Board of Professional Engineers**, having been first appointed by Governor Jeb Bush and again by Governor Charlie Crist. For more than 28 years Mr. Charland was a member of the **Broward County Central Examining Board for Engineering Construction** and has also served as a Member of the **Structural Committee of the Broward County Board of Rules and Appeals**.

Mr. Charland's public service to his profession has also included service as a member of the **Florida Department of Community Affairs Hurricane Andrew Damage Assessment Team**.

## YEARS EXPERIENCE

Total Years' Experience: 52

## EDUCATION

Bachelor of Science in Civil Engineering  
- Specializing in Structural  
University of Florida, 1961

## PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers (ASCE)  
American Concrete Institute (ACI)  
Post Tension Institute (PTI)  
Florida Engineering Society (FES)  
International Code Council (ICC)

## PROFESSIONAL REGISTRATION

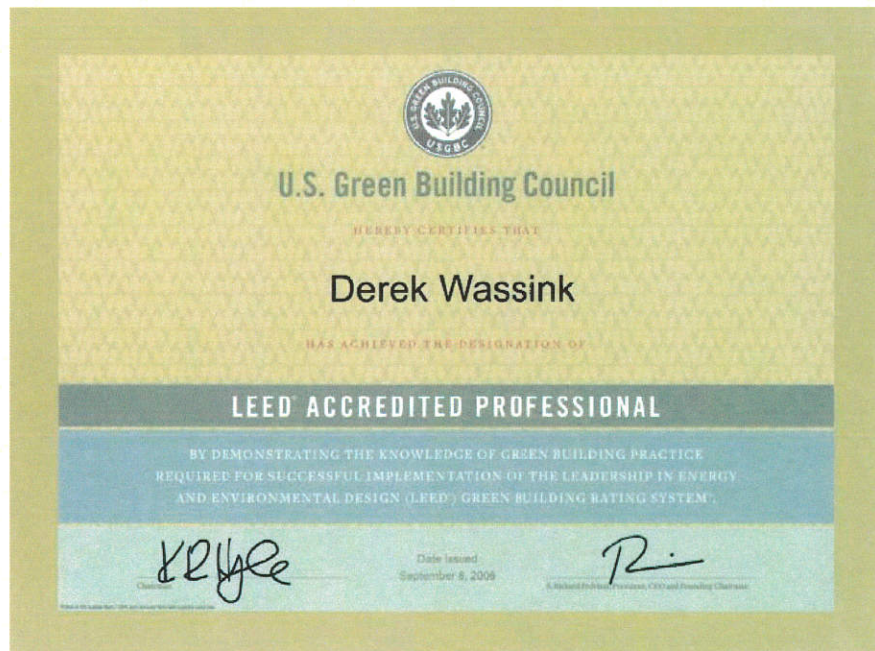
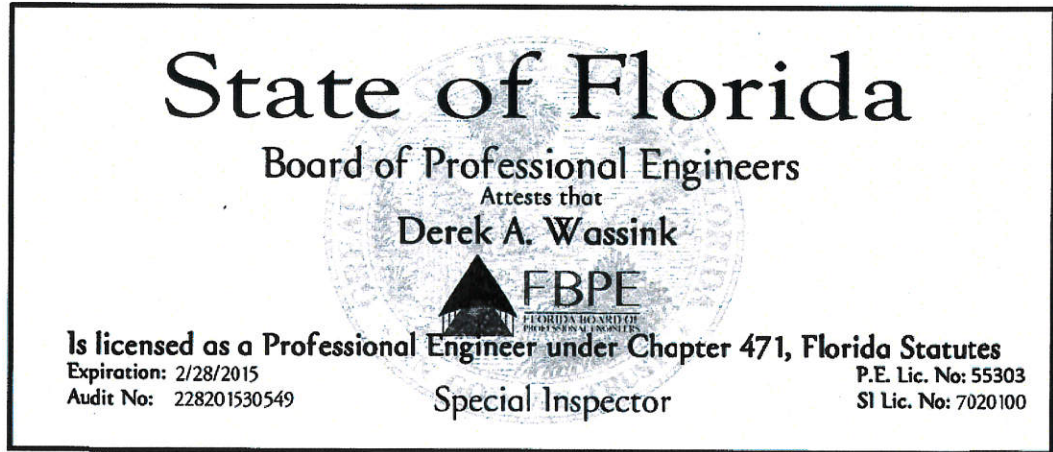
Registered Professional Engineer:  
Florida : PE 8802  
Professional Land Surveyor:  
Florida (retired) : 1749  
Special Inspector/Threshold Buildings  
Florida : 0042

## Principal-in-Charge for projects that include:

- The W Fort Lauderdale Resort, a \$225 million, 2-tower, 23-story hotel and residences with a 5-level enclosed parking garage located on Fort Lauderdale Beach
- Himmarshee Landing: a fast-track, mixed-use facility that includes a 5-story, 50,000 sq.ft. office building, 3-story, 25,000 sq.ft. townhome structure wrapped around a 5-level, 90,000 sq.ft. parking garage
- The \$126 million, 500,000 square foot expansion - passenger Terminal I Concourse B & C to the Fort Lauderdale / Hollywood International Airport
- The \$25 million World Fishing Center that includes a 66-foot tall stainless steel-clad "Fin," a theater that has a projection screen that abruptly doubles in height to 28 feet during the show, and later disappears altogether to reveal a viewing window with views of the lake and special effect outdoors
- The award-winning, fast-track, concrete, \$53 million, **NAP of the Americas** (formerly **TECOTA**) building in Miami - Mr. Charland was instrumental in the type of construction chosen, design process and unprecedented, ultra fast-track construction of the **NAP** building, which is a 6-story, 160' high, 750,000 sf, concrete, telecommunications "hotel" that took only 15 weeks from the start of design to topping off of the structural shell;
- The \$27 million, 250,000sq.ft. Light speed Broward Tech Center in Fort Lauderdale. - state-of-the-art, highly secure, disaster resistant (500-year wind storm) telecommunications building.

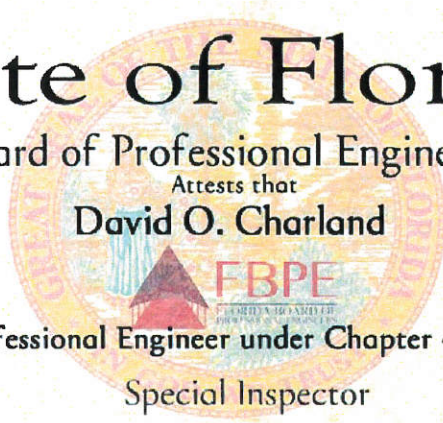


Derek A. Wassink, P.E., R.A., S.I., LEED AP



David O. Charland, P.E., S.I.

**State of Florida**  
Board of Professional Engineers  
Attests that  
**David O. Charland**

 **FBPE**  
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

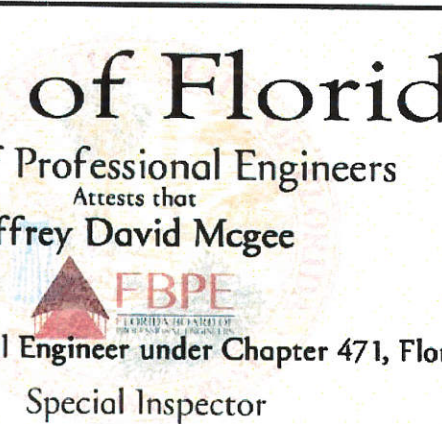
Is licensed as a Professional Engineer under Chapter 471, Florida Statutes  
Expiration: 2/28/2015  
Audit No: 228201520606

Special Inspector

P.E. Lic. No: 8802  
SI Lic. No: 42

Jeffrey D. McGee, P.E., S.I.

**State of Florida**  
Board of Professional Engineers  
Attests that  
**Jeffrey David McGee**

 **FBPE**  
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes  
Expiration: 2/28/2015  
Audit No: 228201530538

Special Inspector

P.E. Lic. No: 45944  
SI Lic. No: 1114



**Availability:**

Our Team is readily available to perform the tasks necessary to deliver the requested services. We are committed to maintain sufficient staffing, in both number and level, to successfully complete structural engineering services to the City of Hollywood, Florida. Estimated hours for each member of the team will depend upon the scope of services for each project. We perform workload/manpower projections monthly and before accepting new assignments we review our commitments to verify the necessary manpower is available.

**TRC's Project Approach for Completion on Time & Within Budget**

TRC Worldwide Engineering, Inc. has developed an organizational structure to establish a proven project management system. A single project manager administers our team approach. All project coordination, communication and management control is through this single point of contact, the project manager. Through years of experience, this procedure has shown more efficient and provides responsible leadership throughout the production process.

The project manager will manage and coordinate all engineering disciplines from project development through construction. This single point of contact helps the client by providing one avenue to relay information, coordinate with all disciplines on the project, and obtain timely answers concerning production progress.

Using the project management scheduling system that outlines deadlines, dates, project status, staffing assignments and quality control review is our key to keeping the project on schedule and on budget. The principal-in-charge regularly reviews each to insure and maintain the proper level of quality.

TRC Worldwide Engineering, Inc. is proud of our history to always attain project milestones.

Our firm's approach to all projects starts with communication. We establish communication with all members of the design team and through face to face meetings, emails, phone calls, and transferring documents through our FTP site, we exchange our work product through all phases of the project delivery. Document conformance is done through electronic overlays with the other consultant drawings as well as careful manual conformance of dimensions, and building elements.

We attend meetings with construction manager and architect early in the design process to determine critical path items; to determine major design decisions that need to be made to allow the design to progress. All parties are part of the scheduling process and maintain good communication to keep design on schedule. During construction we discuss sequencing of shop drawings early to avoid potential delay. Key personnel with the major sub-contractors are a part of the construction meetings to manage obstacles that might delay the project.

During design, check lists and in-house reviews are performed. During construction we perform inspections or threshold inspections; any discrepancies in the construction are corrected on-site or logged on the discrepancy log for tracking and follow up.

During design phase we work with the construction manager to develop the design to include value engineering suggestions into original design. Project team meetings are held frequently to review design progress. At major milestones in the construction document production-60%, 90%, 100% - progress sets of drawings are distributed to all the parties and reviewed for construction cost budget.



## Approach

TRC Worldwide Engineering, Inc. (TRC) develops a specific project approach that is tailored to suit the needs of the owner and to support the actual requirements of each project. Based upon the information provided by the City of Hollywood staff, and the scope of services defined for each individual City project, one or more of the following phases may be appropriate.

- 1) **Forensic Study Phase:** This first phase of service generally consists of inspection and evaluation of the existing conditions, which includes visual observations, photographs and mechanical sounding. This is done in order to collect enough information for us to render an opinion concerning the existing conditions. TRC will meet with the City of Hollywood staff to discuss observations and obtain additional information as required to evaluate conditions and develop repair and/or replacement recommendations. At the completion of this phase, TRC will provide a brief technical memorandum summarizing their findings and meet with City of Hollywood staff to present their findings and recommendations for repairs and/or replacement. A preliminary opinion of probable cost based on our recommendations therein will be included.
- 2) **Construction Document Phase:** Based upon the results of TRC's forensic phase and discussions with City of Hollywood staff, TRC will perform design phase engineering services including consultation, design, and production of construction documents.
- 3) **Bidding Phase:** This phase of service is provided during the bidding and construction process. Services begin after Construction Documents have been prepared and approved by the City of Hollywood. TRC will prepare bid documents and bid forms as required by the City for solicitation of general contractors to perform the work. In addition, TRC will attend a pre-bid meeting and answer contractor questions received through the City, provide any additional support required by the City.
- 4) **Construction Administration Phase:** After award of the general contractor, appropriate approval, and notice-to-proceed has been given to the contractor, TRC will provide construction administration services as required to verify that the contractor understands the scope of work and constructs the project in accordance with construction documents. Generally, the scope of work involves preparing permit documents necessary for permitting, review of submittals, responding to RFI's, attending project meetings with contractor and City of Hollywood staff, performing site visits to observe construction, review of pay applications, and preparing necessary close permit documents and project close out documents.

UPON COMPLETION OF EACH PHASE WE SHALL AWAIT FURTHER INSTRUCTIONS FROM THE CITY OF HOLLYWOOD STAFF PRIOR TO COMMENCING THE NEXT PHASE.





TRCWORL-01

WICA

**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

4/8/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Crow Friedman Group 5141 Wheelis Dr. Memphis, TN 38117	(901) 820-0400	<b>CONTACT NAME:</b> Canessa Jones	
		<b>PHONE (A/C No, Ext):</b> (901) 820-0400	<b>FAX (A/C, No):</b> (901) 820-0402
		<b>E-MAIL ADDRESS:</b> canessa@crowfriedman.com	
		<b>INSURER(S) AFFORDING COVERAGE</b>	
		<b>INSURER A :</b> Lexington Insurance Company	
		<b>NAIC #</b> 19437	
<b>INSURED</b> TRC Worldwide Engineering, Inc. 217 Ward Circle Brentwood, TN 37027-7503	<b>INSURER B :</b>		
	<b>INSURER C :</b>		
	<b>INSURER D :</b>		
	<b>INSURER E :</b>		
	<b>INSURER F :</b>		

**COVERAGES****CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	<b>GENERAL LIABILITY</b>						
	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE \$
	<input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence) \$
							MED EXP (Any one person) \$
							PERSONAL & ADV INJURY \$
							GENERAL AGGREGATE \$
	GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMP/OP AGG \$
	<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						\$
	<b>AUTOMOBILE LIABILITY</b>						
	<input type="checkbox"/> ANY AUTO						COMBINED SINGLE LIMIT (Ea accident) \$
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per person) \$
	<input type="checkbox"/> HIRED AUTOS	<input type="checkbox"/> NON-OWNED AUTOS					BODILY INJURY (Per accident) \$
							PROPERTY DAMAGE (PER ACCIDENT) \$
							\$
	<b>UMBRELLA LIAB</b>	<input type="checkbox"/> OCCUR					EACH OCCURRENCE \$
	<b>EXCESS LIAB</b>	<input type="checkbox"/> CLAIMS-MADE					AGGREGATE \$
	<input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$						\$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b>						
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y / <input type="checkbox"/> N	N / A				WC STATU-TORY LIMITS OTH-ER
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. EACH ACCIDENT \$
							E.L. DISEASE - EA EMPLOYEE \$
							E.L. DISEASE - POLICY LIMIT \$
A	Professional Liability			032834180	4/1/2014	4/1/2015	Each Claim \$2,000,000
A	Professional Liability			032834180	4/1/2014	4/1/2015	Annual Aggregate \$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

47

**CERTIFICATE HOLDER****CANCELLATION**

Specimen  
For Proposal Only  
Cancellation Clause Does Not Apply

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

© 1988-2010 ACORD CORPORATION. All rights reserved.



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
1/8/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Frank E. Neal & Co., Inc. 2223 Eighth Avenue, South P.O. Box 40507 Nashville TN 37204	<b>CONTACT NAME:</b> <b>PHONE (A/C, No. Ext):</b> (615) 383-8874 <b>FAX (A/C, No):</b> (615) 383-8939 <b>E-MAIL ADDRESS:</b> <b>INSURER(S) AFFORDING COVERAGE</b> INSURER A: Travelers Indemnity Co NAIC # 25658 INSURER B: Travelers Prop Cas Co America 25674 INSURER C: Travelers Indemnity of America 25666 INSURER D: INSURER E: INSURER F:
<b>INSURED</b> TRC Worldwide Engineering, Inc. DBA: Jenkins & Charland, Inc. 217 Ward Circle Brentwood TN 37027	

**COVERAGES**

CERTIFICATE NUMBER: 01/07/2014-15

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR VVYD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<b>GENERAL LIABILITY</b> <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			6309132M425	1/7/2014	1/7/2015	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC						\$
	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			8101055N490	1/7/2014	1/7/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			CUP1055N533	1/7/2014	1/7/2015	EACH OCCURRENCE \$ 3,000,000 AGGREGATE \$ 3,000,000
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y/N <input type="checkbox"/> N/A			UB9168M201	1/7/2014	1/7/2015	<input checked="" type="checkbox"/> WC STATUTORY LIMITS E.L. EACH ACCIDENT \$ 100,000 E.L. DISEASE - EA EMPLOYEE \$ 100,000 E.L. DISEASE - POLICY LIMIT \$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

SAMPLE

CERTIFICATE

48

**CERTIFICATE HOLDER****CANCELLATION**

WRSanders@trcww.com  TRC WORLDWIDE ENGINEERING, INC. 217 WARD CIRCLE BRENTWOOD, TN 37027	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE  Mark Neal/LEE
--	--

ACORD 25 (2010/05)

INS025 (201005) 01

© 1988-2010 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD