



GEOENGINEERS, INC.  
 523 East Second Ave  
 Spokane, WA 99202  
 (509) 363-3125 . Fax (509) 363-3126

Distribution 1	River Park Square (Kerry Novell)	PROJECT	Parking Garage Barrier Enhancements		
Distribution 2	Goebel Construction (Terry Goebel)	PROJECT NO.	15371-001-01	REPORT #	4
Distribution 3	Wiss, Janney, Elstner Associate, Inc.	INSPECTION DATE	11/10/2006	PAGE	1 of 1
Distribution 4	City of Spokane Building Department	INSPECTOR	C. Sahagian		
Distribution 5		PROJECT ADDRESS	808 West Main Avenue		
Distribution 6		CITY, STATE	Spokane, Washington		
Time on site:	9:00 A.M.	Time off site:	10:30 A.M.	PERMIT NO.	B0609922

Inspected with reference to (check all that apply):  
 Approved Plans   
  Project Specifications   
  RFI/Change Dwg.   
  ASTM Test Method(s)   
  IBC Building Code

Epoxy anchor holes were inspected for proper depth and cleanliness on levels P7/P8 and P8/P9. All were found clean and of proper depth (4.25"). Welding was inspected on levels P7/P8 and P8 and no deficiency was found. All modifications were completed on these levels.

Pull-tests were performed at the following locations:

- Level P5/P6, 6th plate from the west and 13th from the east.
- Level P6/P7, 3rd plate from the west and 9th plate from the east.

All tests achieved the required 6000 kPA of tension without failure. Testing values were supplied by the project structural engineer. Tested anchors were marked on the ends with yellow paint.

Pullout test equipment used: calibrated SPX RH302 Model C hollow ram with Enerpac P392 hand pump.

Work was inspected with reference to project drawings by Wist, Janney, Elstner Associates dated 7/28/06.

OBSERVATIONS AND RESULTS REPORTED TO **Dennis** OF **Goebel Construction**

**CONFORMANCE OF WORK- ITEMS INSPECTED**

ALL CONFORM  
 DO NOT ALL CONFORM (Re-inspection required, see notes)

TO APPROVED PLANS/SPECIFICATIONS & REFERENCED CODES. NOTE: This is a preliminary document until reviewed and signed by GeoEngineers' technical representative.

Respectfully submitted,  
 GeoEngineers, Inc.  
  
 Technical Representative

**DISCLAIMER:**  
 This report presents data derived and opinions formed as a result of our activities relating to our approved scope of work. Test results apply only to the specific items, locations, and/or times tested. We rely on the contractor to comply with the plans and specification throughout the duration of the project irrespective of the presence of our representative. Our presence and activities on the site in no way relieve the contractor of his contractual obligations. Our work does not include supervision or direction of the work of others. Our firm will not be responsible for job or site safety of others on this project. Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.



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Distribution 1	River Park Square (Kerry Novell)	PROJECT	Parking Garage Barrier Enhancements		
Distribution 2	Goebel Construction (Terry Goebel)	PROJECT NO.	15371-001-01	REPORT #	5
Distribution 3	Wiss, Janney, Elstner Associate, Inc.	INSPECTION DATE	11/15/2006	PAGE	1 of 1
Distribution 4	City of Spokane Building Department	INSPECTOR	C. Sahagian		
Distribution 5		PROJECT ADDRESS	808 West Main Avenue		
Distribution 6		CITY, STATE	Spokane, Washington		
Time on site: 13:00 Time off site: 14:00		PERMIT NO.	B0609922		
Inspected with reference to (check all that apply):					
<input checked="" type="checkbox"/> Approved Plans <input checked="" type="checkbox"/> Project Specifications <input type="checkbox"/> RFV/Change Dwg. <input checked="" type="checkbox"/> ASTM Test Method(s) <input checked="" type="checkbox"/> IBC Building Code					

Location: Levels P8 and P9. Observed final epoxy anchor holes for cleanliness and proper depth. All holes were found to be clean and of the specified depth (4.25").

Work was inspected with reference to project drawings by Wist, Janney, Elstner Associates dated 7/28/06.

Goebel Construction requested that GeoEngineers return on 11/20 to perform final pullout tests on the installed anchors.

OBSERVATIONS AND RESULTS REPORTED TO Dennis OF Goebel Construction

**CONFORMANCE OF WORK- ITEMS INSPECTED**

ALL CONFORM

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808 W Main Ave INSPECTION REPORT B0609922



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Distribution 1	River Park Square (Kerry Novell)	PROJECT	Parking Garage Barrier Enhancements		
Distribution 2	Goebel Construction (Terry Goebel)	PROJECT NO.	15371-001-01	REPORT #	6
Distribution 3	Wiss, Janney, Elstner Associate, Inc.	INSPECTION DATE	11/20-21/2006	PAGE	1 of 1
Distribution 4	City of Spokane Building Department	INSPECTOR	C. Sahagian		
Distribution 5		PROJECT ADDRESS	808 West Main Avenue		
Distribution 6		CITY, STATE	Spokane, Washington		
Time on site:	8:00	Time off site:	9:00	PERMIT NO.	B0609922

Inspected with reference to (check all that apply):  
 Approved Plans   
 Project Specifications   
 RFI/Change Dwg.   
 ASTM Test Method(s)   
 IBC Building Code

This report summarizes special inspection work performed on November 20 and 21, 2006.

- Epoxy anchor pull tests were performed at the following locations:
- Level P7/P8: 5th plate from the east and 11th plate from the west
  - Level P8/P9: 7th plate from the east and 9th plate from the west
  - Level P9/P10: 7th plate from the east and 5th plate from the west
  - Level P11: 5th plate from the west

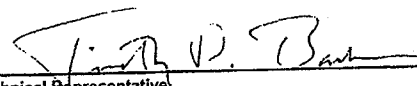
All anchors tested were stressed to 6000 kPa without failure. The tested anchors were marked with yellow paint.

Pullout test equipment used: calibrated SPX RH302 Model C hollow ram with Enerpac P392 hand pump.

Work was inspected with reference to project drawings by Wist, Janney, Elstner Associates dated 7/28/06.

OBSERVATIONS AND RESULTS REPORTED TO **Dennis** OF **Goebel Construction**

**CONFORMANCE OF WORK- ITEMS INSPECTED**  
 ALL CONFORM  
 DO NOT ALL CONFORM (Re-inspection required, see notes)  
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Respectfully submitted,  
 GeoEngineers, Inc.  
  
 Technical Representative

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Table with 6 columns: Distribution, PROJECT, PROJECT NO., INSPECTION DATE, INSPECTOR, PROJECT ADDRESS, CITY, STATE, PERMIT NO. Includes checkboxes for 'Approved Plans', 'Project Specifications', 'RFI/Change Dwg.', 'ASTM Test Method(s)', and 'IBC Building Code'.

Initial checking of installation torque values for the adhesive anchor nuts was begun on 11/27 and final checking was completed on 11/28. Approximately six nuts were tested at random locations on each parking level. All nuts checked were found to meet or exceed the project requirements. Test value was 150 ft/lbs as required by the drawings by Witherspoon, Kelley, Davenport and Toole, dated 7/28/06, Sheet A000, section 3.2(A)7.

OBSERVATIONS AND RESULTS REPORTED TO Dennis OF Goebel Construction

CONFORMANCE OF WORK- ITEMS INSPECTED
[ ] ALL CONFORM
[ ] DO NOT ALL CONFORM (Re-inspection required, see notes)
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Respectfully submitted,
GeoEngineers, Inc.
[Signature]
Technical Representative

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November 21, 2006

River Park Square  
808 West Main Avenue  
Spokane, Washington 99201

Attention: Kerry Novell

Subject: Final Report  
Special Inspection and Construction Observation  
River Park Square Parking Garage Barrier Enhancements  
Building Permit No. B0609922  
File No. 15371-001-01

## **INTRODUCTION AND SCOPE**

This final report, which is submitted in accordance with the 2003 International Building Code (IBC), summarizes results of special inspections, field tests and observations we performed for the River Park Square Parking Garage Barrier Enhancements project. The project site is located at 808 West Main Avenue in Spokane, Washington. Our services were accomplished in general accordance with our August 9, 2006 services agreement and the requirements of Chapter 17 of the IBC. Our services were authorized on October 25, 2006.

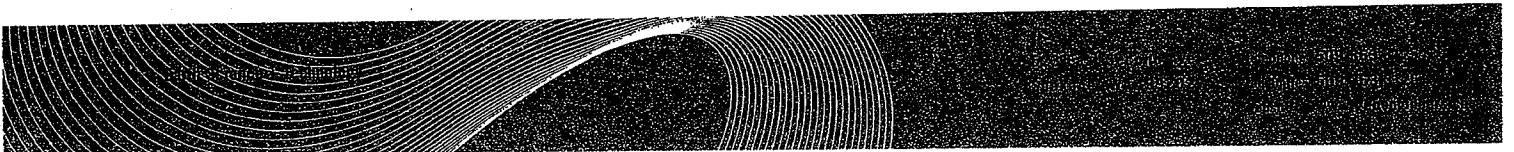
## **SUMMARY OF SERVICES**

In the course of providing our authorized scope of services, we made nine visits to the site between October 27 and November 21, 2006. Site visits were generally made in response to notification by the general contractor, Goebel Construction, of the progress of the work. The results of our field tests and observations, including any problems noted and/or corrected during our site visits, were reported to the contractor's field superintendent by our field technician(s). Daily field reports summarizing our tests and observations were submitted after each site visit.

We performed the following tasks for designated portions of this project, in accordance with our authorized scope and the requirements of the project documents and applicable codes:

1. Visual inspection of field welding for concrete panel steel reinforcements.
2. Epoxy anchor installation inspection.
3. Epoxy anchor pull tests for strength verification.

Trained and certified personnel, or trainees under their direct supervision, performed special inspection and construction monitoring work for the project. Testing was performed in accordance with applicable ASTM/AWS/AASHTO test methods and in a manner consistent with the level of care and skill ordinarily exercised by inspection firms practicing in the area. Engineering review and administrative support tasks also were performed as necessary to complete the requested services. We did not continuously observe any phase of the work, therefore we make no representation regarding the quality of work we did not



observe. Quality of work is the responsibility of the contractor and no warranty is provided or implied by our presence or activities on the project.

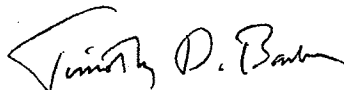
### CONCLUSION

Based on our observations and test results, it is our judgment that the work requiring special inspection we observed on this project was, to the best of our knowledge, in conformance to the approved project plans and specifications, and the applicable workmanship provisions of the 2003 International Building Code.

This report finalizes our involvement with the River Park Square Parking Garage Barrier Enhancements project. We appreciate the opportunity to be of service to you. If you have any questions regarding the contents of this final report or our previously submitted daily field reports, please call Matt Blankenship of our office, or me.

Respectfully submitted,

GeoEngineers, Inc.



Timothy D. Barber, WABO, ICBO  
Field Inspection Supervisor

TDB:tlm  
Docid: PA15\15371001\01\Finals\1537100101F.doc

cc: Goebel Construction (Terry Goebel); City of Spokane Building Department

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808 W Main Ave  
30609922



DEPARTMENT OF  
BUILDING AND CODE ENFORCEMENT  
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SPOKANE, WASHINGTON 99201-3343  
(509) 625-6300  
FAX (509) 625-6124 / (509) 625-6822  
www.buildingspokane.org

January 2, 2007

Robert B. Goebel General Contractor, Inc.  
Terminal Box 3086  
Spokane, WA 99220

Dear Mr. Goebel:

This letter is to inform you that the **Spandrel Enhancement** work on the **RPS Parking Garage at 808 West Main Avenue** has been completed by your company, and the work has been inspected and "finaled" by Bill Leonetti, Building Inspector of the City of Spokane.

The permits include B0609922BU, All Level-Structural Spandrel Enhancement, and B0608286BU, Repair Pink Level Spandrel.

The work on the spandrels has been completed and approved per the requirements of the structural engineers. All special inspections required by the City have been completed to the City's and the special inspector's satisfaction and are attached to the permit file.

If you have any questions about this, please feel free to contact me at (509) 625-6145, Monday through Friday.

Yours truly,

Larry Naccarato  
Plan Examiner

LN/pep

Copies to: Joseph Wizner, Building Official  
Dan Skindzier, Inspector Supervisor ✓  
Bill Leonetti, Lead Building Inspector

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