

BEFORE THE COUNCIL OF THE
METROPOLITAN SERVICE DISTRICT

FOR THE PURPOSE OF AMENDING) RESOLUTION NO. 88 - 869
CONTRACT WITH ZIMMER GUNSUL FRASCA)
PARTNERSHIP TO INCLUDE WIND TUNNEL) Introduced by
TESTING FOR THE OREGON CONVENTION) Executive Officer Rena Cusma

WHEREAS, The Council of the Meropolitan Service District has .
contracted with the Zimmer Gunsul Frasca Partnership for the design
of the Oregon Convention Center; and


WHEREAS, The design of the Convention Center includes twin
towers which require wind tunnel testing to insure their safety prior
to preparation of contract documents and construction; and

WHEREAS, Zimmer Gunsul Frasca Partnership and KPPF, the
structural engineers both recommend that additional wind tunnel
testing be performed; now, therefore,

BE IT RESOLVED,

That the contract between Zimmer Gunsul Frasca Partnership and
Metro be increased by \$15,000 to reflect additional wind tunnel
testing services for the Oregon Convention Center.

ADOPTED by the Council of the Metropolitan Service District this
11th day of February, 1988.



Mike Ragsdale, Presiding Officer

STAFF REPORT

Agenda Item No.

Meeting Date: February 11, 1988

CONSIDERATION OF AMENDMENT TO CONTRACT WITH ZIMMER GUNSUL FRASCA
PARTNERSHIP FOR ADDITIONAL WIND TUNNEL TESTING FOR OREGON CONVENTION
CENTER PROJECT

Date: February 8, 1988

Presented by: Tuck Wilson

BACKGROUND AND FACTUAL ANALYSIS

Background:

In January, Metro's contract with Zimmer Gunsul Frasca was amended to include wind tunnel testing for the towers on the Oregon Convention Center. The preliminary analysis indicates that further testing is required to understand the exact dynamic behavior of the towers. This additional work includes the construction of a special model. Zimmer Gunsul Frasca and the project's structural engineers, KPFF, are both recommending that this testing be done.

The cost of the additional work is \$15,000.

EXECUTIVE OFFICER RECOMMENDATION:

The Executive Officer recommends approval of the amendment to the contract with Zimmer Gunsul Frasca Partnership for additional wind tunnel testing for the convention center project.

AMENDMENT NO. 9

This amends the Agreement between the Metropolitan Service District ("Owner") and Zimmer Gunsul Frasca Partnership ("Architect") executed February 27, 1987 ("original agreement") as amended.

WHEREAS, the parties agreed to the conditions set forth in the original agreement and desire to amend the Agreement as amended;

The following changes are made to the original agreement as previously amended:

EXHIBIT C, COMPENSATION TO ARCHITECT

B. Total Cost

The total cost of the services provided under this agreement during all phases shall not exceed [4,100,539] \$4,115,539.

C. Architect's Basic Services Compensation

10. For wind tunnel testing and related wind engineering work associated with the approved tower design, [12,000] \$27,000.

WHEREAS, all other conditions and covenants remain in full force and effect.

IN WITNESS WHEREOF, the parties have caused this Addendum to be executed by their duly authorized officers.

ARCHITECT:
ZIMMER GUNSUL FRASCA PARTNERSHIP

OWNER:
METROPOLITAN SERVICE DISTRICT

BY: _____
(TITLE) _____

BY: _____
(TITLE) _____

DATE: _____

DATE: _____



GRANT/CONTRACT SUMMARY

METROPOLITAN SERVICE DISTRICT

GRANT/CONTRACT NO. 87-2-261 CC BUDGET CODE NO. 52 - 00 - 00 - 8630 - 0000

FUND: 52: Capital DEPARTMENT: Convention Center (IF MORE THAN ONE) _____

SOURCE CODE (IF REVENUE) _____

INSTRUCTIONS

- OBTAIN GRANT/CONTRACT NUMBER FROM CONTRACTS MANAGER. CONTRACT NUMBER SHOULD APPEAR ON THE SUMMARY FORM AND ALL COPIES OF THE CONTRACT.
- COMPLETE SUMMARY FORM.
- IF CONTRACT IS —
 - SOLE SOURCE, ATTACH MEMO DETAILING JUSTIFICATION.
 - UNDER \$2,500, ATTACH MEMO DETAILING NEED FOR CONTRACT AND CONTRACTOR'S CAPABILITIES, BIDS, ETC.
 - OVER \$2,500, ATTACH QUOTES, EVAL. FORM, NOTIFICATION OF REJECTION, ETC.
 - OVER \$50,000, ATTACH AGENDA MANAGEMENT SUMMARY FROM COUNCIL PACKET, BIDS, RFP, ETC.
- PROVIDE PACKET TO CONTRACTS MANAGER FOR PROCESSING

1. PURPOSE OF GRANT/CONTRACT wind tunnel testing for Oregon Convention Center

2. TYPE OF EXPENSE

<input checked="" type="checkbox"/> PERSONAL SERVICES	<input type="checkbox"/> LABOR AND MATERIALS	<input type="checkbox"/> PROCUREMENT
<input type="checkbox"/> PASS THROUGH AGREEMENT	<input type="checkbox"/> INTER-GOVERNMENTAL AGREEMENT	<input type="checkbox"/> CONSTRUCTION
		<input type="checkbox"/> OTHER

OR

TYPE OF REVENUE GRANT CONTRACT OTHER

3. TYPE OF ACTION

<input checked="" type="checkbox"/> CHANGE IN COST	<input checked="" type="checkbox"/> CHANGE IN WORK SCOPE
<input type="checkbox"/> CHANGE IN TIMING	<input type="checkbox"/> NEW CONTRACT

4. PARTIES Zimmer Gunsul Frasca, Metro

5. EFFECTIVE DATE upon approval TERMINATION DATE upon project completion
(THIS IS A CHANGE FROM _____)

6. EXTENT OF TOTAL COMMITMENT:	<input checked="" type="checkbox"/> ORIGINAL NEW	\$ <u>3,763,000</u>
	PREV. AMEND	<u>337,539</u>
	THIS AMEND	<u>15,000</u>
	TOTAL	\$ <u>4,115,539</u>

7. BUDGET INFORMATION

A. AMOUNT OF GRANT/CONTRACT TO BE SPENT IN FISCAL YEAR 1987-8 \$ 2,396,444

B. BUDGET LINE ITEM NAME engineering svcs AMOUNT APPROPRIATED FOR CONTRACT \$ 2,978,100

C. ESTIMATED TOTAL LINE ITEM APPROPRIATION REMAINING AS OF January 1, 1988 \$ 1,758,522

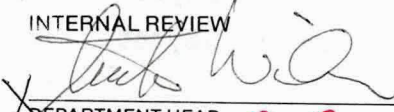
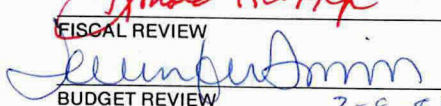
8. SUMMARY OF BIDS OR QUOTES (PLEASE INDICATE IF A MINORITY BUSINESS ENTERPRISE)

_____ SUBMITTED BY	\$ _____ AMOUNT	<input type="checkbox"/> MBE
_____ SUBMITTED BY	\$ _____ AMOUNT	<input type="checkbox"/> MBE
_____ SUBMITTED BY	\$ _____ AMOUNT	<input type="checkbox"/> MBE

9. NUMBER AND LOCATION OF ORIGINALS Zimmer Gunsul Frasca, contracts officer, project office

10. A. APPROVED BY STATE/FEDERAL AGENCIES? YES NO NOT APPLICABLE
 B. IS THIS A DOT/UMTA/FHWA ASSISTED CONTRACT YES NO
11. IS CONTRACT OR SUBCONTRACT WITH A MINORITY BUSINESS? YES NO
 IF YES, WHICH JURISDICTION HAS AWARDED CERTIFICATION _____
12. WILL INSURANCE CERTIFICATE BE REQUIRED? YES NO
13. WERE BID AND PERFORMANCE BONDS SUBMITTED? YES NOT APPLICABLE
 TYPE OF BOND _____ AMOUNT \$ _____
 TYPE OF BOND _____ AMOUNT \$ _____
14. LIST OF KNOWN SUBCONTRACTORS (IF APPLICABLE)
- | | | |
|---|------------------------------------|------------------------------|
| NAME <u>RWDI, (Rohan, Williams, Davits & Irwin)</u> | SERVICE <u>wind tunnel testing</u> | <input type="checkbox"/> MBE |
| NAME _____ | SERVICE _____ | <input type="checkbox"/> MBE |
| NAME _____ | SERVICE _____ | <input type="checkbox"/> MBE |
| NAME _____ | SERVICE _____ | <input type="checkbox"/> MBE |
15. IF THE CONTRACT IS OVER \$10,000
 A. IS THE CONTRACTOR DOMICILED IN OR REGISTERED TO DO BUSINESS IN THE STATE OF OREGON?
 YES NO
- B. IF NO, HAS AN APPLICATION FOR FINAL PAYMENT RELEASE BEEN FORWARDED TO THE CONTRACTOR?
 YES DATE _____ INITIAL _____
16. COMMENTS:

GRANT/CONTRACT APPROVAL

<p>INTERNAL REVIEW  DEPARTMENT HEAD</p> <p>FISCAL REVIEW  BUDGET REVIEW</p> <p style="text-align: right; color: blue;">2-8-88</p>	<p>CONTRACT REVIEW BOARD (IF REQUIRED) DATE _____</p> <p>1. _____ COUNCILOR</p> <p>2. _____ COUNCILOR</p> <p>3. _____ COUNCILOR</p>	<p>COUNCIL REVIEW (IF REQUIRED)</p> <p>DATE _____</p>
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- LEGAL COUNSEL REVIEW AS NEEDED:
- A. DEVIATION TO CONTRACT FORM _____
- B. CONTRACTS OVER \$10,000 _____
- C. CONTRACTS BETWEEN GOVERNMENT AGENCIES _____

ZIMMER·GUNSUL·FRASCA PARTNERSHIP

320 S.W. Oak Suite 500 Portland, Oregon 97204-2737

503/224-3860

Cable: ZGFOREGON Telecopier: 224-2482

February 5, 1988

Tuck Wilson
METRO
2000 SW First Ave.
Portland, OR 97201

Reference: Job No. 6060-05
Oregon Convention Center

Subject: Wind Tunnel Test

Dear Tuck:

The scope of work for the wind tunnel test previously approved by Metro contained two items:

1. A preliminary analysis of the dynamic action of the tower mass to determine if there may be problems with the interaction of the tower dynamics and wind.
2. Construction of a scale model and conduction of a wind tunnel pressure study to:
 - a. Determine pressure loads on the glazing.
 - b. Determine roof lift-off loads.

RWDI has completed the preliminary dynamic analysis. As a result of this analysis they are concerned that under certain wind conditions the dynamic response (movement) of the upper glazed tower and spire may be reinforced by the wind. To counteract this, an independent dampening mass may need to be added in the upper tower and spire.

RWDI recommends that an aero-elastic model be constructed and tested in the wind tunnel to determine the exact dynamic behavior of the tower and, if necessary, to determine the location and size of the dampening mass. This is a separate model of a different scale from the one that will be used for the pressure study.

The cost of the aero-elastic model and dynamic wind tunnel study is \$15,000. Both KPFF and ourselves recommend proceeding with this test. RWDI would run this test prior to the pressure test.

Members American Institute of Architects

Partners Norman C. Zimmer FAIA Brooks R.W. Gunsul FAIA Robert J. Frasca FAIA Gregory S. Baldwin AIA Raymond A. Boucher AIA
Daniel J. Huberty AIA Robert G. Packard III AIA Larry S. Bruton AIA

Associate Partners Jack Cornwall AIA Janice E. Finney Brainard Joy Gannett AIA Ernest L. Grigsby Ronald P. Gronowski AIA Lee F. Kilbourn AIA FCSI
Eve J. Ruffcorn AIA Patrick C. Tillett RIBA MRTPI AICP AIA James N. Van Duyn AIA Stanley G. Zintel AIA

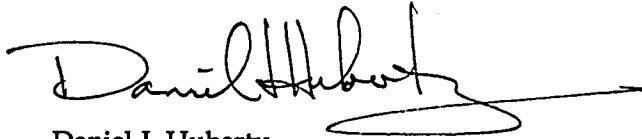
Associates Sharon L. Bonney Richard E. Brown AIA Kelly D. Davis AIA Dennis W. Destefano AIA Nancy M. Fishman David A. Fisk AIA Carl E. Freeze AIA Jack Golden AIA
Duane R. Hunting William R. Hutchinson AIA Harold (Lee) Kerns AIA Susan E. Kerns IBD Todd Ira Miller AIA David J. Morey AIA Kenneth J. Mouchka AIA CSI
Ronald W. Ramberg Karl R. Sonnenberg AIA John H. Thompson AIA John S. Walling

Tuck Wilson
February 5, 1988
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To maintain schedule, I have authorized RWDI to proceed. I request that you prepare a contract modification for the additional \$15,000.

Sincerely,

Zimmer Gunsul Frasca Partnership

A handwritten signature in black ink, appearing to read "Daniel Huberty", with a long horizontal flourish extending to the right.

Daniel J. Huberty
Partner

DJH/mah

cc: KPF