

## Curriculum Vitae

**Date of Submission: 10-12-11**

**Name** : **Engr. Dr. ZAHID AHMAD SIDDIQI**

**Employer** : UET, Lahore

**Place of Birth** : Gujranwala

**Domicile** : Lahore

**Permanent Address** : House No. 107, Staff Colony, University of Engg. & Tech. G. T. Road, Lahore.

**Email Address** : [zasiddiq@yahoo.com](mailto:zasiddiq@yahoo.com), zasiddiq@uet.edu.pk

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**Post Held** : Professor, Civil Engineering Department

**Date of Joining UET** : 20-02-1984



### EDUCATIONAL QUALIFICATIONS:

S. #	Degree	Year of Passing	University/College	Division	Subject/Field
1-	F.Sc. (Science)	1976-77	B.I.S.E. Lahore.	1st	Science
2-	B.Sc. Civil Engg.	1984	University of Engg. & Tech. Lahore.	1st	Civil Engg.
3-	M.Sc. Civil Engg.	1988	University of Engg. & Tech. Lahore.	1st	Structural Engg.
4-	Ph.D. Civil Engg.	1995	University of Oklahoma, Norman, USA.		Structural Engineering

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#### **Awards:**

1. LCCI Award for Excellence in Civil Engineering presented by the Prime Minister of Pakistan, 2011.
2. Nominated for 14<sup>th</sup> August Presidential Award for Excellence in Civil Engineering by the Vice Chancellor, UET, Lahore, 2012.
3. Best Teaching Assistant Award, University of Oklahoma, USA, 1995.
4. COTS Scholarship for PhD by Ministry of Education, Pakistan, 1991.

\* **Additional Qualifications:**

1. B. Sc. (Science), 1978, University of Punjab, Lahore.
2. Teacher's Training, University of Oklahoma, USA.
3. AutoCAD Course, Punjab University.
4. JAVA, Department of Chemical Engineering, UET, Lahore.
5. Oracle Certificate (DBA Track).

\* **Administrative Assignments:**

1. Head of Structural Engineering Division since 2010
2. Director of Strength of Materials Laboratory from Dec. 2003 to 2010.
3. Director, KSK Campus, UET, Lahore.

\* **Ph.D. Dissertations Under Progress**

3 PhD.

\* **M.Sc. Thesis Under Progress**

6 M.Sc. theses are under progress.

\* **Main Subjects Taught During Past 5 Years:**

**Post Graduate Level**

1. Advanced Reinforced Concrete Design.
2. Plastic Design of Steel Structures / Steel Structures.

**Undergraduate Level**

1. Structural Engineering.
2. Strength of Materials-II.
3. Steel Structures.
4. Plain and Reinforced Concrete-I.
5. Plain and Reinforced Concrete-II.
6. Design of Structures.

**List of Research Publications**

\* **International Journals**

<b>Title of Paper</b>	<b>Authors</b>	<b>Organization /Country</b>	<b>Volume/Year of Publication</b>
Analysis of fluid storage tanks including foundation - superstructure interaction using differential quadrature method	Anant R. Kukreti and Zahid A. Siddiqi	Journal of Applied Mathematical Modelling / UK	1997
Analysis of eccentricity stiffened	Zahid A. Siddiqi and	Journal of Applied	Vol. 22, 1998

plates with mixed boundary conditions using differential quadrature method”, Journal of Applied Mathematical Modelling	Anant R. Kukreti	Mathematical Modelling / UK	
Ph.D. Dissertation	Zahid A. Siddiqi	University of Oklahoma, U.S.A.	December 1995
A Study on Power Transmission Poles	M.Ashraf, H. M. Ahmad and Z. A. Siddiqi	Asian Journal of Civil Engineering (Building and Housing), Tehran, Iran. ISSN 1563-0854	Vol. 6, No. 6, 2005, pages 511-532
Configuration of a Multistorey Building Subjected to Lateral Forces		Asian Journal of Civil Engineering (Building and Housing), Tehran, Iran. ISSN 1563-0854	Vol. 9, No. 5, 2008, pages 525-538

\* **Local Journals**

<b>Title of Paper</b>	<b>Authors</b>	<b>Organization / Country</b>	<b>Volume/Year of Publication</b>
Structural Behaviour of Composite Double Layer Bridge-Grids with various Span/Depth Ratios	M. Ashraf, Z. A. Siddiqi and Z. Ali	Journal of the Institution of Engineers Pakistan	May 1991
M. Sc. Thesis	Zahid A. Siddiqi	University of Engineering & Technology, Lahore	1988
Composite Bridge Grids: An Efficient Technique for Highway Bridges	Ashraf M. and Siddiqi, Z. A.	Journal of Engineering and Applied Sciences, NWFP UET. ISSN 1023-863	June, 2004
Disasters in High Rise Buildings and Safety Measures	Zahid A. Siddiqi, M. Ashraf and Aun Bashir	University Research Journal, University of Engineering and	Jan-Dec 2005

		Technology, Lahore	
Economical Sizing of Singly Reinforced RC Beams and Footing Slabs	Zahid A. Siddiqi, Abdul Ghaffar and Imran Ishaq	Journal of Engineering and Applied Sciences, NWFP UET. ISSN 1023-863	June-Dec, 2005
Analysis of Transmission Poles	M. Ashraf, H. M. Ahmad and Z. A. Siddiqi.	Journal of Engineering and Applied Sciences, NWFP UET. ISSN 1023-863	June-Dec, 2005
Slippage of Steel in High and Normal Strength Concretes	K. Ahmad, Z. A. Siddiqi and M. Yousaf	Pakistan Journal of Engineering and Applied Sciences, University of Engineering and Technology, Lahore. ISSN: 1995-1302	Vol. 1, July 2007, pp 31- 40
Comparison of Bond Behaviour of Hot Rolled and Cold Twisted Steel Reinforcement in High Strength Concrete	K. Ahmed, Z. A. Siddiqi and A. Ghaffar	Mehran University Research Journal of Engineering and Technology, Mehran University of Engineering and Technology, Jamshoro. ISSN: 0254-7821	Vol. 27, Number 4, October 2008, pp 365-376
Critical Traffic Loading for the Design of Prestressed Concrete Bridge	M. Irfan-ul-Hassam, Zahid A. Siddiqi and M. Ashraf	Mehran University Research Journal of Engineering and Technology, Mehran University of Engineering and Technology, Jamshoro. ISSN: 0254-7821	Vol. 28, No. 3, July 2009 pp 303-316
Effect of Rebar Cover and Development Length on Bond and Slip in High Strength Concrete	K. Ahmad, Z. A. Siddiqi and A. Ghaffar	Pakistan Journal of Engineering and Applied Sciences, University of	Vol. 2, Jan 2008, pp 79- 87

		Engineering and Technology, Lahore. ISSN: 1995-1302	
Assessing Suitability of Margalla Crush for Ultra High Strength Concrete	A. Ghaffar , Z. A. Siddiqi and K. Ahmad	Pakistan Journal of Engineering and Applied Sciences, University of Engineering and Technology, Lahore. ISSN: 1995-1302	Vol. 7, July 2010, pp 36-43
Behaviour of Reinforced Fibrous Concrete Beams under Reversed Cyclic Loading	R. Hameed, F. Duprat, A. Turatsinze, A. Sellier and Z. A. Siddiqi	Pakistan Journal of Engineering and Applied Sciences, University of Engineering and Technology, Lahore. ISSN: 1995-1302	Vol. 9, July 2011, pp 1-12
Role of Aggregates in Production of Ultra High Strength Concrete	A Ghaffar, Z A Siddiqi and K Ahmed	Pakistan Journal of Science, ISSN: 0030-9877	Vol. 63 No. 3 September, 2011
Nondestructive Evaluation of an Existing Concrete Structure using Load Test and Core Test	M. A. Saleem, Z. A. Siddiqi, M. A. Javed and M. Aziz	Pakistan Journal of Engineering and Applied Sciences, University of Engineering and Technology, Lahore. ISSN: 1995-1302	Vol. 11, July 2012, pp 66-72

\* **International Conferences**

<b>Title of Paper</b>	<b>Authors</b>	<b>Organization/Country</b>	<b>Volume/Year of Publication</b>
Plastic Analysis of Continuous Prestressed Steel Beams	M. A. Chaudhry, M. Ashraf, Z. A. Siddiqi and M. Ilyas	Proc. of ASIA-PACIFIC Structural Analysis Conference, 89, Faculty of Civil Engineering,	7-9 November, 1989

		Universiti Teknologi, Malaysia, Johr Bohru.	
Natural frequencies of stiffened and un-stiffened rectangular plates using differential quadrature method	Anant R. Kukreti and Zahid A. Siddiqi	SECTAM XVIII, Tuscaloosa, USA	April 1996
Behaviour of Composite Double Layer Bridge-Grids having Eccentricity	M. Ashraf and Zahid A. Siddiqi	Proc. of ASIA-PACIFIC Structural Analysis Conference, 89, Faculty of Civil Engineering, Universiti Teknologi, Malaysia Johr Bohru, 7-9, 89.	1989
Environmental Management in Construction	M. A. Chaudhry, Z. A. Siddiqi and M. Ilyas	Proceedings, Creating With Concrete, International Congress, Dundee, Scotland. ISBN 0-7277-2823-7	6 to 10 September 1999
Selection of Optimum Parameters in Prestressed Steel Frames	Mahboob Ali Ch., M. Ashraf and Zahid A. Siddiqi	China Steel Construction Society, Beijing, China	2001
Effects of Construction Activities on Environment	Z. A. Siddiqi, M. A. Chaudhry and M. Ashraf	International Congress "Challenges Of Concrete Construction" Dundee, Scotland. ISBN 0-7277-3177-7	5-11 September 2002
Design and Construction Defects in the Buildings of Balakot (Pakistan) and Surrounding	Muhammad Azhar Saleem and Zahid Ahmad Siddiqi	Fourth International Conference on Construction in the	July 11-13, 2007

Areas in Relation to Earthquake Loading		21 <sup>th</sup> Century, CITC-IV Gold Coast, Australia. ISBN 1-884342-02-1	
Simplified Design for Torsion in Beams	Muhammad Azhar Saleem and Zahid Ahmad Siddiqi	Fourth International Conference on Construction in the 21 <sup>th</sup> Century, CITC-IV Gold Coast, Australia. ISBN 1-884342-02-1	July 11-13, 2007
Effect of Construction Flaws on Performance of Pre-Engineered Steel Structures	Zahid Ahmad Siddiqi, Wasim Abbas and Fahid Aslam	Construction in Developing Countries, ICCIDC-II, Cairo, Egypt	August 3-5, 2010
Seismic Performance of Large Span Steel Buildings	Zahid Ahmad Siddiqi, Fahid and Wasim Abbas Aslam	Construction in Developing Countries, ICCIDC-II, Cairo, Egypt	August 3-5, 2010
Constraints and Potential of Fiber reinforced Polymer (FRP) Application in the Construction Industry of Pakistan	Muhammad Mazhar Saleem, Muhammad Afzal Javed, Zahid Ahmad Siddiqi and Muhammad Azhar Saleem	Construction in Developing Countries, ICCIDC-II, Cairo, Egypt	August 3-5, 2010

\* **Local Conferences**

<b>Title of Paper</b>	<b>Authors</b>	<b>Organization / Country</b>	<b>Volume / Year of Publication</b>
Computer Analysis of Composite Space Structures	M. Ashraf, Zahid A. Siddiqi and Afzal Javed	67 <sup>th</sup> Annual Session, Pakistan Engineering Congress, Lahore	May, 1998
A Convenient Method for Design	Siddiqi Z. A. and	67 <sup>th</sup> Annual	May, 1998

of Reinforced Concrete Members	Ashraf M.	Session, Pakistan Engineering Congress, Lahore	
Improved Design of Web Stiffeners for Flexural Members	Zahid A. Siddiqi and Mahboob A. Ch.	39 <sup>th</sup> Annual Convention, Institution of Engineers, Pakistan	April 13-15, 1999
Interpolation for Missing GIS Data Maintaining Prevailing Slope and Curvature	Zahid A. Siddiqi, M. Naeem Akhtar, Mahboob Ali Ch. and Shahid A. Siddiqi	39 <sup>th</sup> Annual Convention, Institution of Engineers, Pakistan	April 13-15, 1999
Experimental Investigations on Reinforced-Brick Slabs	Zahid Ahmad Siddiqi and Muhammad Ashraf	Annual Session, Pakistan Engineering Congress	2000
Environmental Control on Infrastructure Services	Mahboob Ali Ch., M. Ashraf and Z. A. Siddiqi	Third International Civil Engineering Congress, IEP, Karachi, Pakistan	February – 2003
Safety Assurance Through Environmental Control in Construction Projects	M. Ashraf, M. A. Chaudhry and Z. A. Siddiqi	43 <sup>rd</sup> Annual Convention, Institution of Engineers, Lahore Centre, Pakistan	April 29-30, 2003
Development of Ultra-High Strength Concrete in Pakistan	Ahmad K., Siddiqi Z. A. and Ghaffar A.	International Conference on Earthquake Engineering, University of Engineering and Technology, Lahore	8-9 September 2006
Bond Behaviour of Cold Twisted Steel in High Strength Concrete	K. Ahmad, Z. A. Siddiqi, A. Ghaffar and M. Saleem	Proceedings of International Conference on Advances in Cement Based Materials and Applications in Civil Infrastructure (ACBM-ACI), University of	11-13 <sup>th</sup> Dec, 2007



		Engineering and Technology, Lahore. ISBN: 978-969-546-016-0	
Bond Stress-Slip Response of Deformed Steel Reinforcing Bars Embedded in Confined Concrete: Experimental Investigation Through Pull-Out Tests	R. Hameed, A. Turatsinze, F. Duprat, A. Sellier and Z. A. Siddiqi	Proceedings of International Conference on Earthquake Engineering and Seismology, National University of Sciences & Technology (NUST), pp. 294-299, Islamabad, Pakistan. ISBN: 978-969-8535-06-3	25-26 April, 2011

\* **Books Published**

1. Basics of the Engineering Drawing, ISBN 978-969-8633-00-7, Help Civil Engineering Publishers, Lahore, 2011.
2. *LRFD Steel Design Aids*, ISBN 978-969-8633-08-9, 4<sup>th</sup> Edition, Help Civil Engineering Publisher, Lahore, 2012.
3. Steel Structures, 3<sup>rd</sup> Edition, ISBN 978-969-8633-09-7, Help Civil Engineering Publishers, Lahore, December 2012.
4. Concrete Structures, Part-I, 2<sup>nd</sup> Edition, ISBN 978-969-8633-07-3, Help Civil Engineering Publishers, Lahore, 2012.
5. Concrete Structures, Part-II, 2<sup>nd</sup> Edition, ISBN 978-969-8633-10-3, Help Civil Engineering Publishers, Lahore, 2012.

\* **Any Other Publications**

**PHD DISSERTATION SUPERVISED**

1. “Bond Strength of Ultra High Strength Concrete at Intersection of Beams”, Mr. Kafeel Ahmad, Civil Engineering Department, University of Engineering and Technology, Lahore, 2009.
2. “A Study on Tensile Strength of Ultra High Strength”, Mr. Abdul Ghaffar, Civil Engineering Department, University of Engineering and Technology, Lahore, 2012.

**M.Sc. THESIS SUPERVISED**

1. "A Study on Transmission Line Towers Using Different Methods", Mr. Azam Islam Khan, Civil Engineering Department, University of Engineering and Technology, Lahore, November, 2000.
2. "Automation of Designing Multistoried Buildings", Mr. Mudassar Mushtaq, Civil Engineering Department, University of Engineering and Technology, Lahore, 2004.
3. "A Study on Strength and Durability of Concrete by Using Polyvinyl Acetate Latex", Ms. Nighat Anwar, Civil Engineering Department, University of Engineering and Technology, Lahore, 2004.
4. "Performance Study of Locally Available Coarse Aggregate in Azad Kashmir", Mr. Imran Ishaq, Civil Engineering Department, University of Engineering and Technology, Lahore, 2004.
5. "Cost Comparison of Various Types of Bridges", Mr. Irfan, Civil Engineering Department, University of Engineering and Technology, Lahore, 2005.
6. "To Study the Flexural Behaviour of Beam Using Glass Fiber Reinforced Polymer (GFRP) Rebars", Mr. Rashid Hameed, Civil Engineering Department, University of Engineering and Technology, Lahore, 2005.
7. "A Comparative Study of Analysis and Design of Superstructure of Box Girder and T-Beam Bridges", Mr. Rao Jang Sher, Civil Engineering Department, University of Engineering and Technology, Lahore, 2006.
8. "Study of Direct Strength Method for Cold Formed Compression Members", Mr. Muhammad Azam Khan, Civil Engineering Department, University of Engineering and Technology, Lahore, 2006.
9. "A Study of Prestressed Concrete Box Girder Bridges for Train and Highway Loadings", Mr. Muhammad Umer Khan, Civil Engineering Department, University of Engineering and Technology, Lahore, 2007.
10. "Comparison of Field Practice of Reinforcement Detailing and Code Requirements", Mr. M. Mazhar Rafique Sindhu, Civil Engineering Department, University of Engineering and Technology, Lahore, 2007.
11. "Improvements in the Design and Construction Practices of Water Retaining Structures Comparing Provisions of Various Codes", Mr. Mashood Ahmad, Civil Engineering Department, UET, Lahore, 2007.
12. "A Study on Effects of Varying Span and Loading on Behaviour of Box Girder Bridges", Mr. Mirza Muhammad Aamir Baig, Civil Engineering Department, UET, Lahore, 2007.

13. "A Study on Water Absorption of Concrete Using SBR Latex", Mr. Jawed Ahmad Qazi, Civil Engineering Department, UET, Lahore, 2008.
14. "Design of Liquid Retaining Structures", Ms. Aqsa Abdul Razzaq, Civil Engineering Department, UET, Lahore, 2009.
15. "Comparison of Bracing Systems for Tall Buildings", Mr. Usman Akmal, Civil Engineering Department, UET, Lahore, 2009.
16. "Fatigue Evaluation of Railway Steel Bridges", Mr. Muhammad Shoaib Sarwar, Civil Engineering Department, UET, Lahore, 2009.
17. "Design of Steel Structure Using Cold Formed and Non-Prismatic Sections", Mr. M. Umair Saleem, Civil Engineering Department, UET, Lahore, 2009.
18. "Comparison of Reinforced Concrete with Composite Construction in Tall Buildings", Ms. Mariya Malik, Civil Engineering Department, UET, Lahore, 2009.
19. "Rehabilitation of Fatigued Double Deck Railway / Highway Steel Bridge at Attock Khurd", Mr. Naveed Ahmad, Civil Engineering Department, UET, Lahore, 2010.
20. "Seismic Performance of Large Span Steel Buildings", Mr. Fahid Aslam, Civil Engineering Department, UET, Lahore, 2010.
21. "Bond of High Strength Concrete under Low Cyclic Loading", Mr. Sheraz Khalid, Civil Engineering Department, UET, Lahore, 2010.
22. "To Study Tensile Strength of Fiber Reinforced Concrete", Ms. Umbreen-Us-Sahar, Civil Engineering Department, UET, Lahore, 2011.
23. "Experimental Investigation of RC Beam to Column Joints", Mr. Ali Ahmad, Civil Engineering Department, UET, Lahore, 2011.
24. "Comparison of British and American Codes for Wind Analysis and Design of Tall Buildings", Mr. Zeeshan Ahmad, Civil Engineering Department, UET, Lahore, 2011.
25. "Response of Exterior Beam Column Joint under Cyclic Loading", Mr. Muhammad Mazhar Saleem, Civil Engineering Department, UET, Lahore, 2012.

\* **Seminars / Conferences Organized**

1. "Cost and Performance Optimization of Bridge Superstructures Using Genetic Algorithms," Engr. Salman Saeed from UET Peshawar, Civil Engineering Department, UET, Lahore, July, 2005.

2. Cold Formed Steel Members, Mr. Azam, Mehmat Ltd., Civil Engineering Department, UET, Lahore, 13<sup>th</sup> July 2005.
3. Comparison of Seismic Provision of Various International Building Codes, Saif M. Hussain, Managing Partner (LA Office) and Sr. Vice President, Coffman Engineers, Inc., Los Angeles, California, USA, March 13, 2009.
4. International Conference on “Advances in Cement Based Materials and Applications in Civil Infrastructure – (ACBM-ACI)”, UET, Lahore, December 12-14, 2007.
5. International Conference on “Earthquake Engineering”, UET, Lahore, 8-9 September, 2006.
6. International Conference on “Water Resources Engineering and Management”, UET, Lahore, 7-8 March, 2011.
7. International Conference on “Geotechnical Engineering”, UET, Lahore, 5-6 November, 2010.

\* **Seminars / Conferences Attended**

1. Presented paper on “Differential Quadrature Methods of Solutions of Differential Equations,” National Workshop on Mathematical Models: Their Development and Use, Organized COMSATS, Islamabad, Islamabad, July 20-21, 1998.
2. Innovative Structures and Structural Health Monitoring, Organized by Higher Education Commission, 18-19 Dec, 2004.
3. Dam Engineering and Slope Stability, Organized by Higher Education Commission, Dec, 2004.
4. Geotechnical Aspects of Hydropower Projects, Civil Engineering Department, UET, Lahore, Feb, 2005.
5. Computer Aided Analysis and Design, Organized by Civil Engineering Department and ACECOM (AIT, Bangkok), April, 2005.
6. Latest Technology for Termite Proofing, Organized by Civil Engineering Department and FMC United Pvt., June, 2005.
7. International Seminar on Road Safety, Organized by NUST and PEC, HQ NUST, Rawalpindi, 8-9 Dec, 2004.
8. Presented talk on “Disasters in High Rise Buildings and Safety Measures”, No.15 ICDO Senior Staff Management Course on Civil Defence, Civil Defence Academy, Lahore.
9. Presented talk on “LRFD Design in Steel and Concrete and its Advantages”, 21 Oct 2004, MCE, Risalpur.

10. Computer Aided Analysis and Design, ISCAAD-37, Organized by ACECOM and UET, Lahore.
11. Earthquake Rehabilitation Conference, Theme-I: Seismology, Structures and Codes, Organized by NWFP UET and HEC, HEC, Islamabad, 18-19 Nov 2005.
12. Concrete in Developing Countries – Materials, Design and Construction, IEP-CSCE-UET International Colloquium, Dec 16 – 18, 1985.
13. Earthquake Rehabilitation Seminar, Dr. Wasti, Organized by UET, Lahore, 2007.
14. Steel Bridges Rehabilitation Seminar, Dr. Shakoor, Organized by UET, Lahore, 2007.
15. Professional Training on “Use of Seismic Hazard Analysis in Engineering Design”, jointly organized by NWFP UET, Peshawar and University of Illinois at Urbana-Champaign, Illinois, USA, Islamabad, August 24-25, 2008.

\* **Memberships**

- i) Was member of Advanced Research Board of UET, Lahore and is member of Advanced Research Board of UET, Peshawar.
- ii) Member of Research Evaluation Committee of 4 Ph.D. Students, UET, Peshawar.
- iii) Member of standing Committee on “Iron and Steel”, The Lahore Chamber of Commerce and Industry.
- iv) Member of Board of Directors, Cement Research and Development Institute, TUSDEC, Lahore.
- v) Member of Pakistan Engineering Council.
- vi) Member of Institution of Engineers Pakistan.
- vii) Member of Pakistan Engineering Congress.
- viii) Was member of DACUM Committee for Construction and Highway Technology – B-Tech. Programme, 2001.

\* **Collaborative Research / Teaching / Projects**

- 1- Member of REC committees of 5 completed Ph.Ds. at NWFP UET, Peshawar.
- 2- Member of REC committees of 3 Ph.D. students at NWFP UET, Peshawar.
- 3- Advisor to Civil Engineering Faculty, University College Of Engineering, Bahauddin Zakriya University, Multan, December 2003 to June 2005.
- 4- Visiting Teacher, Civil Engineering Department, UET, Taxila, Spring Term, 2007 and Spring Term, 2008.

- 5- Evaluator of 6 HEC Research Proposals, 2006-2007.
- 6- Associated with M/s Multi Dimensional Consultants, Lahore, from January, 1989 to February 2005.
- 7- Associated with M/s Republic Engineering Consultants, Lahore, from February 2005 to 2008.

\* **Foreign Visits:**

<u>Country</u>	<u>Official/Private</u>	<u>Year</u>	<u>Purpose</u>
USA	Official	1992-96	For Ph.D. studies
Yemen	Private	April, 2004	For Design
Saudi Arabia	Private		For Hajj

Dated: \_\_\_\_\_ Signature \_\_\_\_\_

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