Appendix A: Field Testing Results

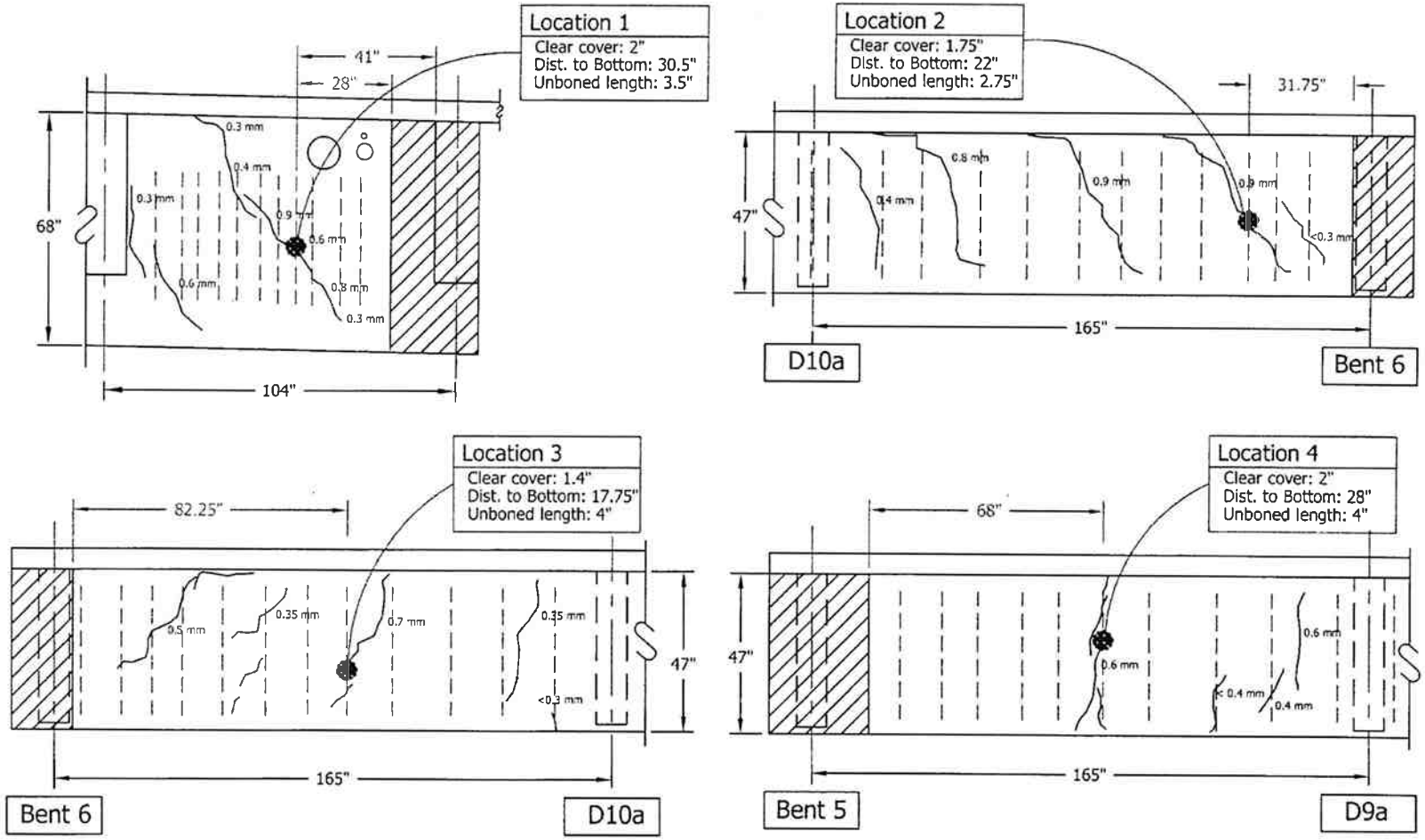


Figure A1: Gage Locations 1 - 4

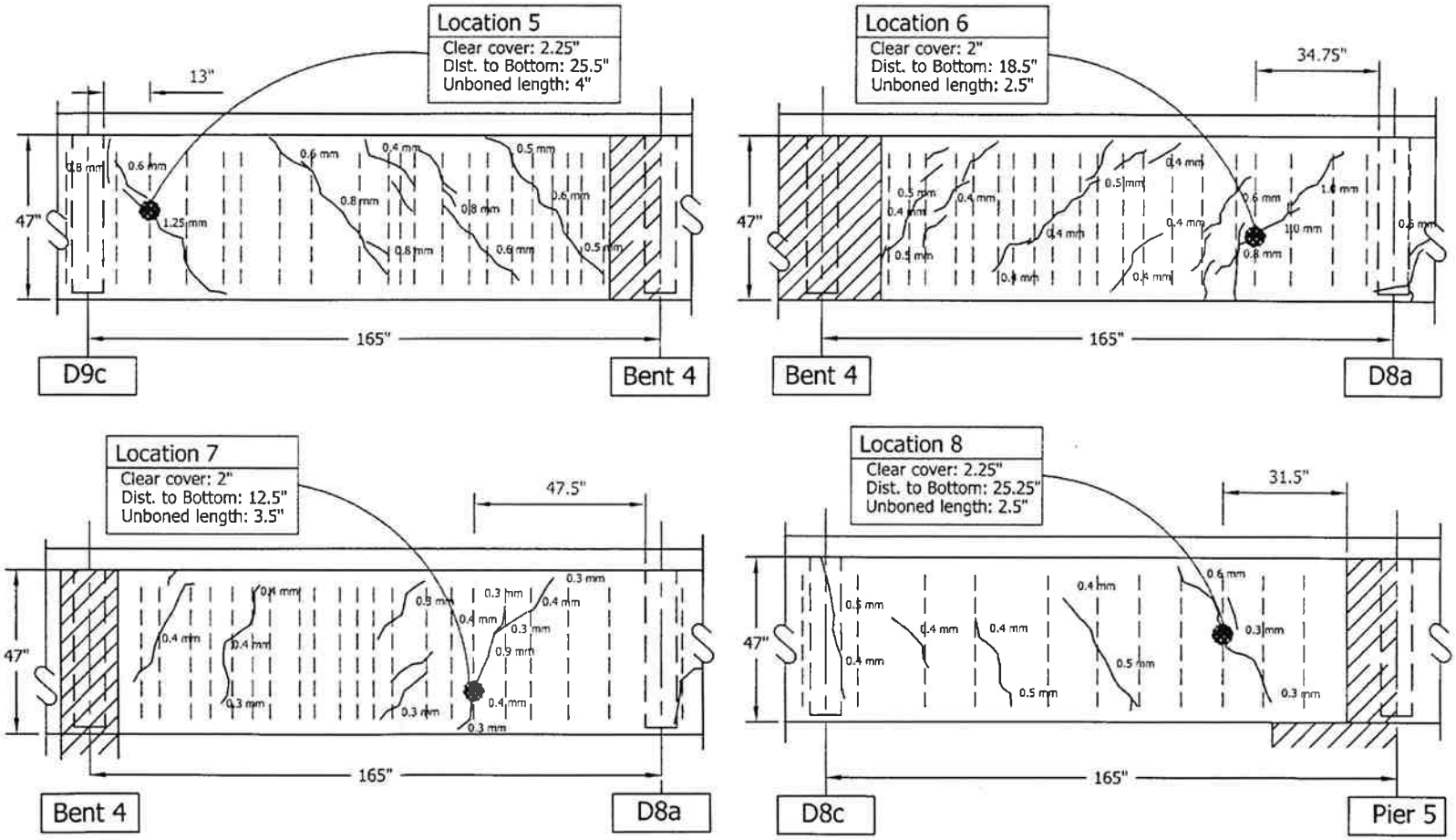


Figure A2: Gage Locations 5 - 8

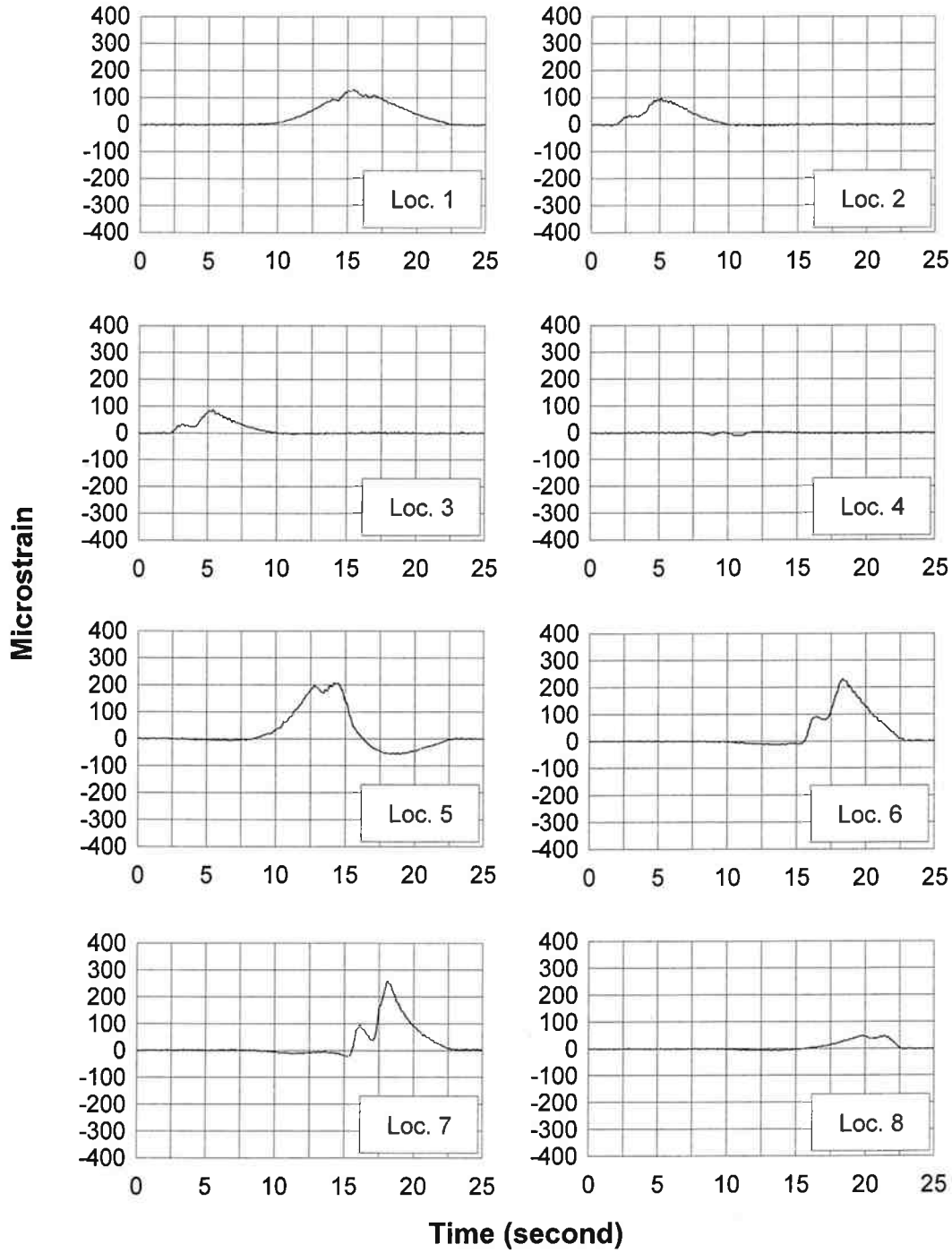


Figure A3: Strain in stirrups plots for the northbound passage of the test truck across the bridge with a speed of 5 mph

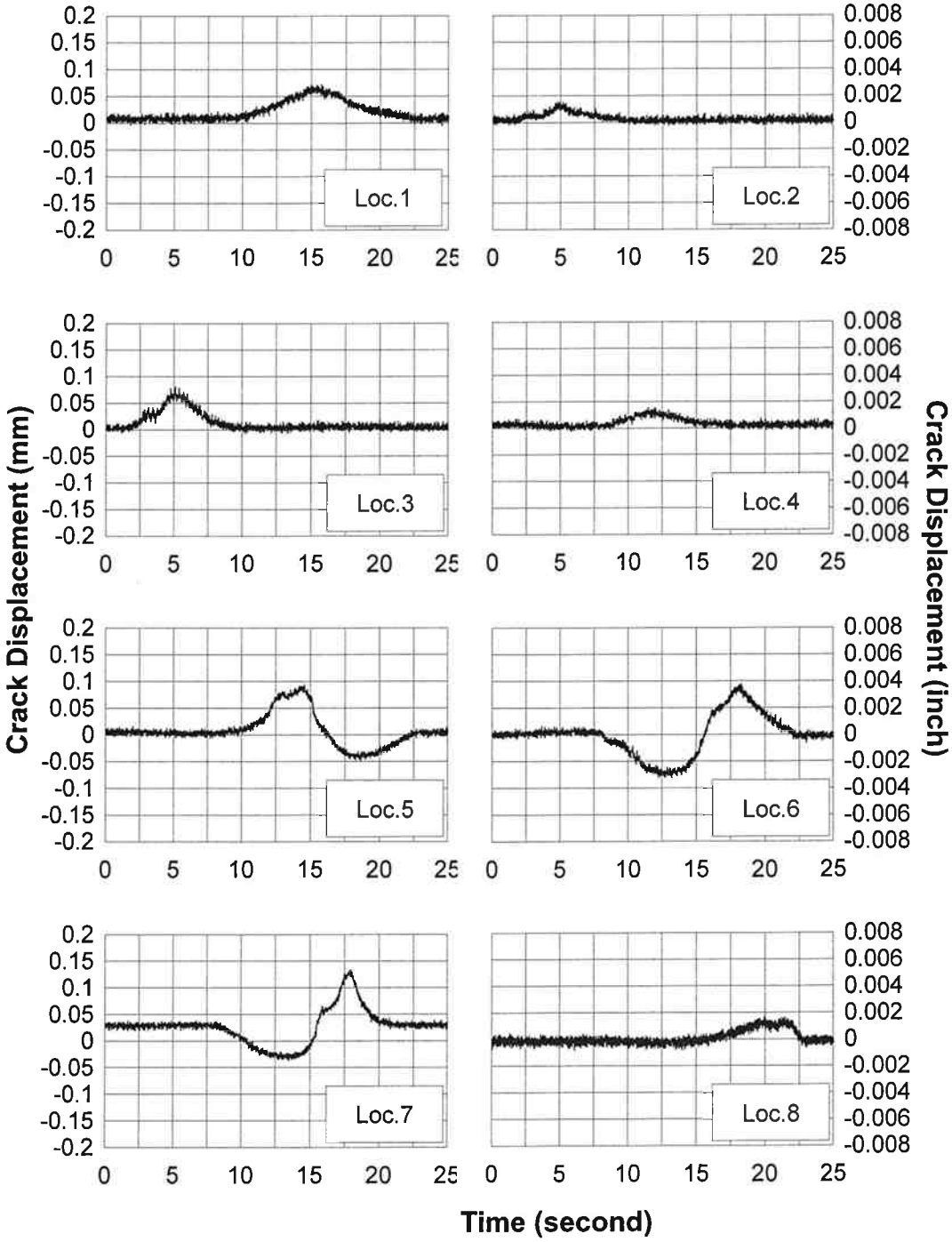


Figure A4: Crack displacement plots for the northbound passage of the test truck across the bridge with a speed of 5 mph

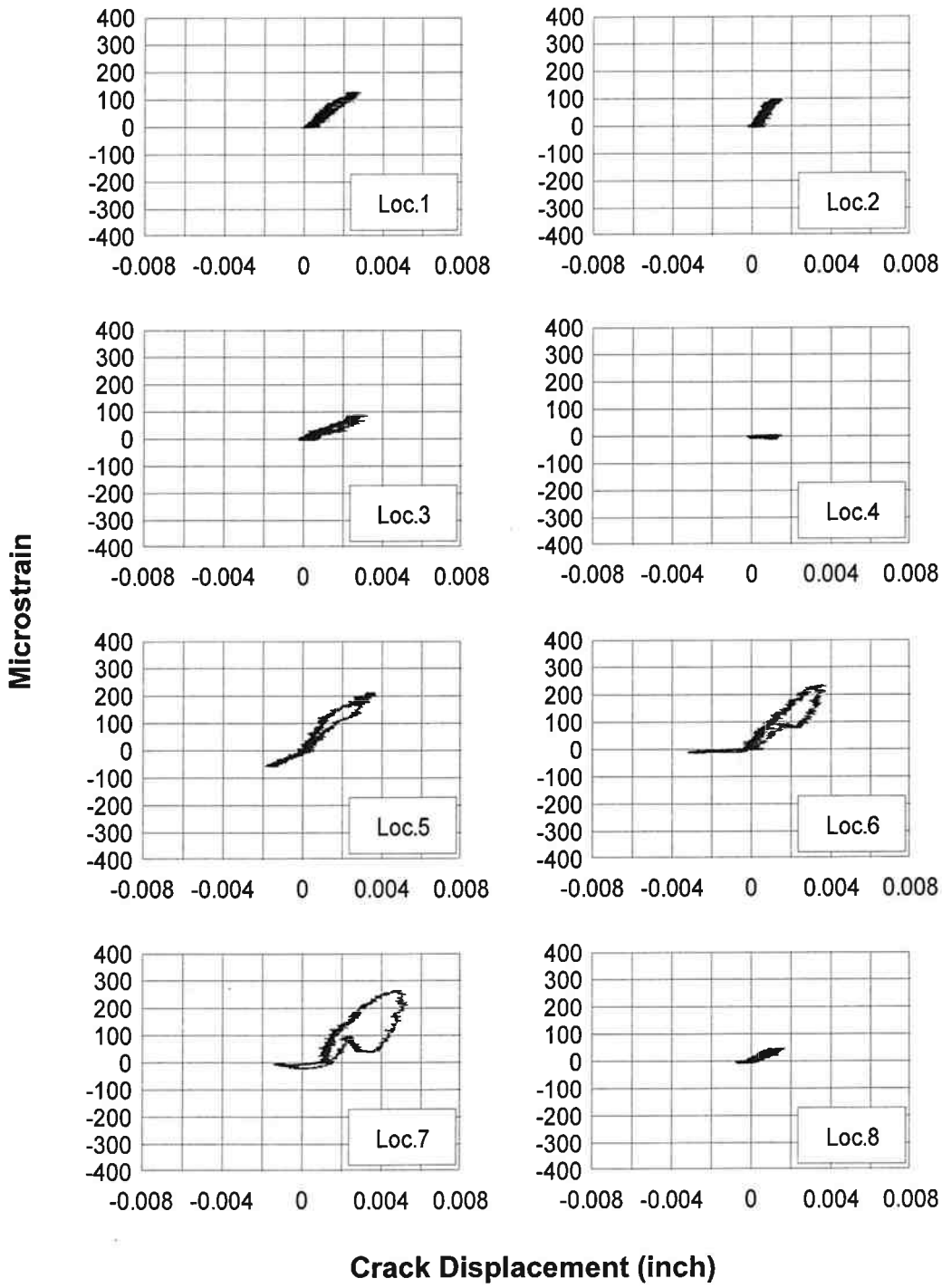


Figure A5: Strain-crack displacement plots for the northbound passage of the test truck across the bridge with a speed of 5 mph

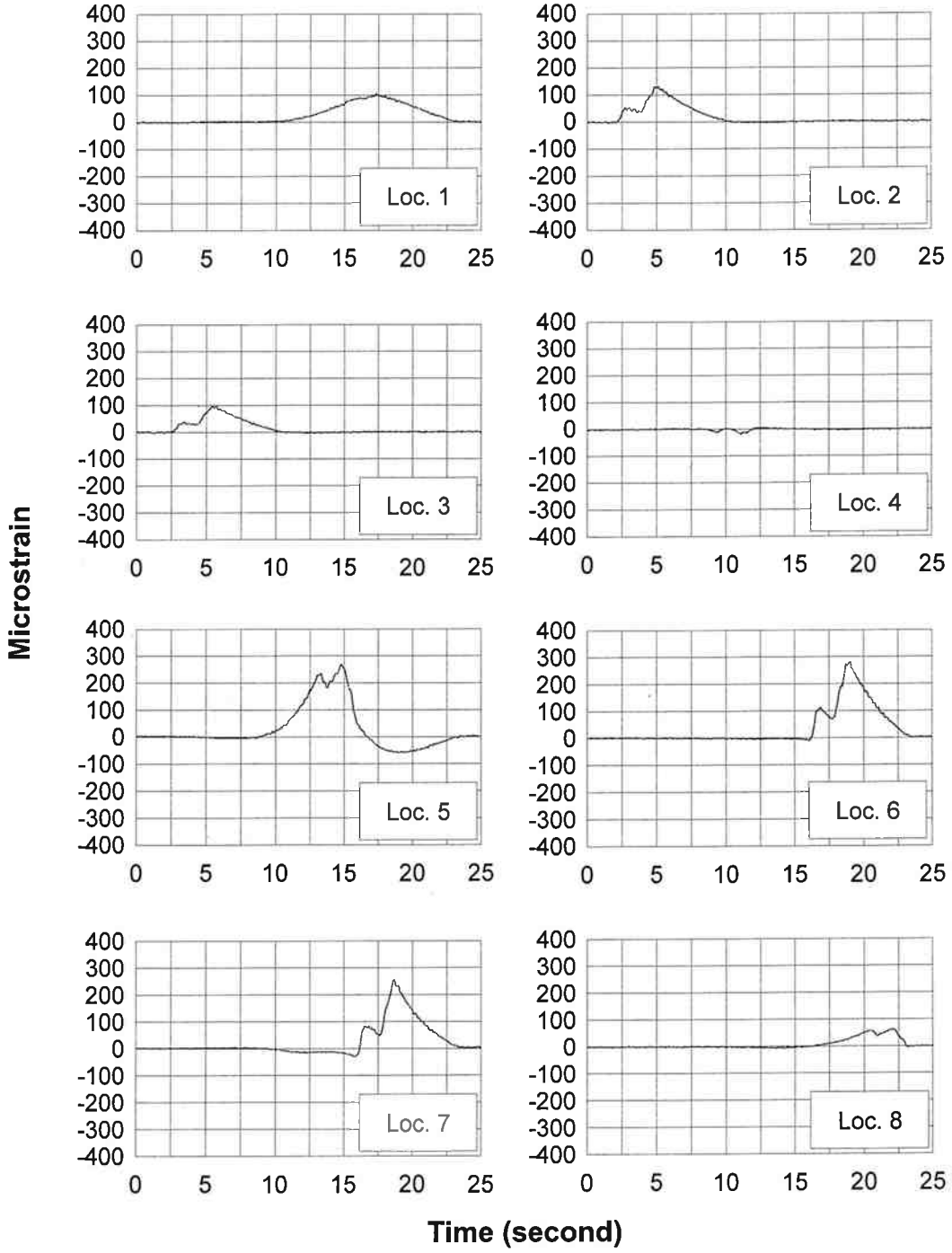


Figure A6: Strain in stirrups plots for the northbound passage of the test truck across the bridge with a speed of 5 mph (one side of the truck on the fog line)

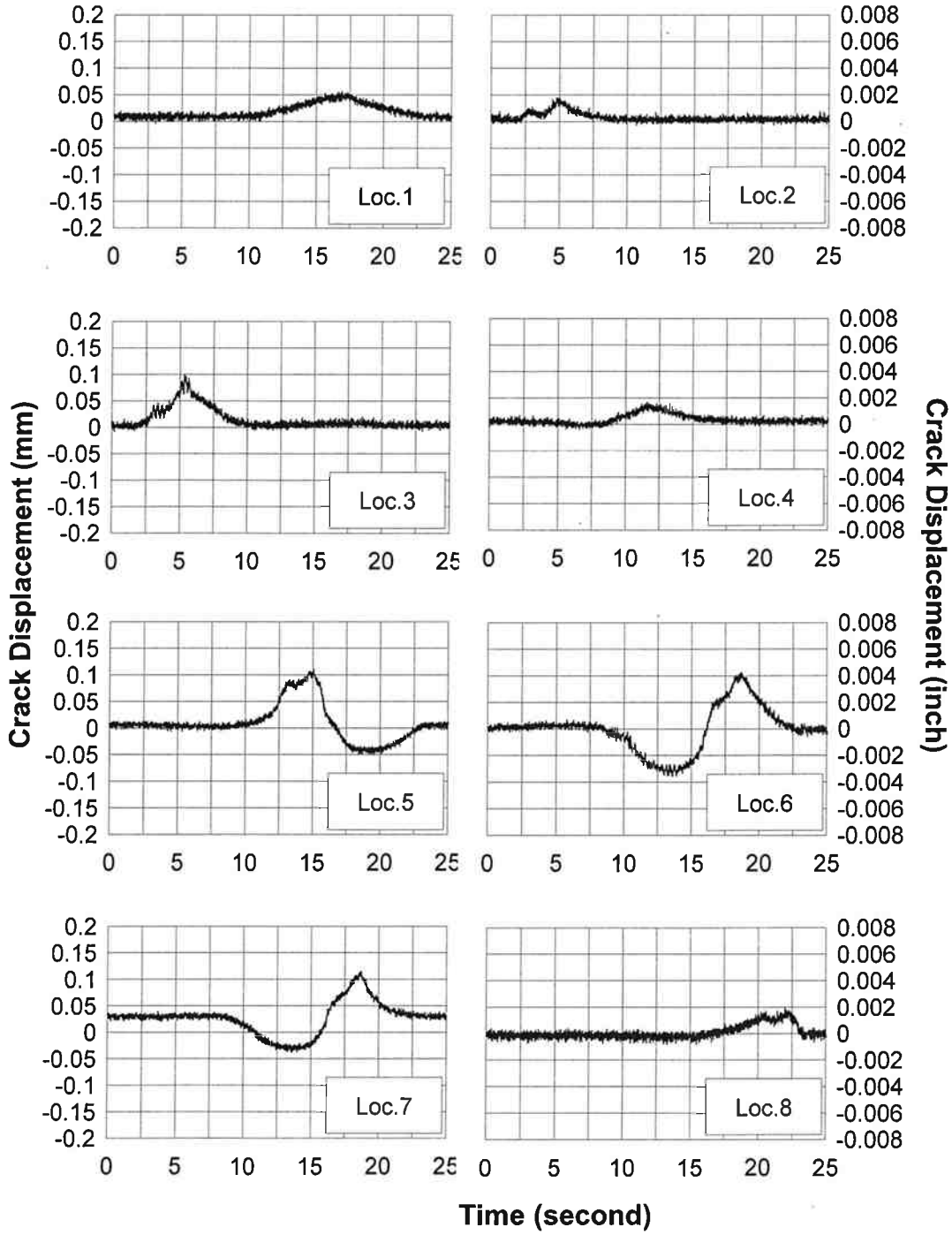


Figure A7: Crack displacement plots for the northbound passage of the test truck across the bridge with a speed of 5 mph (one side of the truck on the fog line)

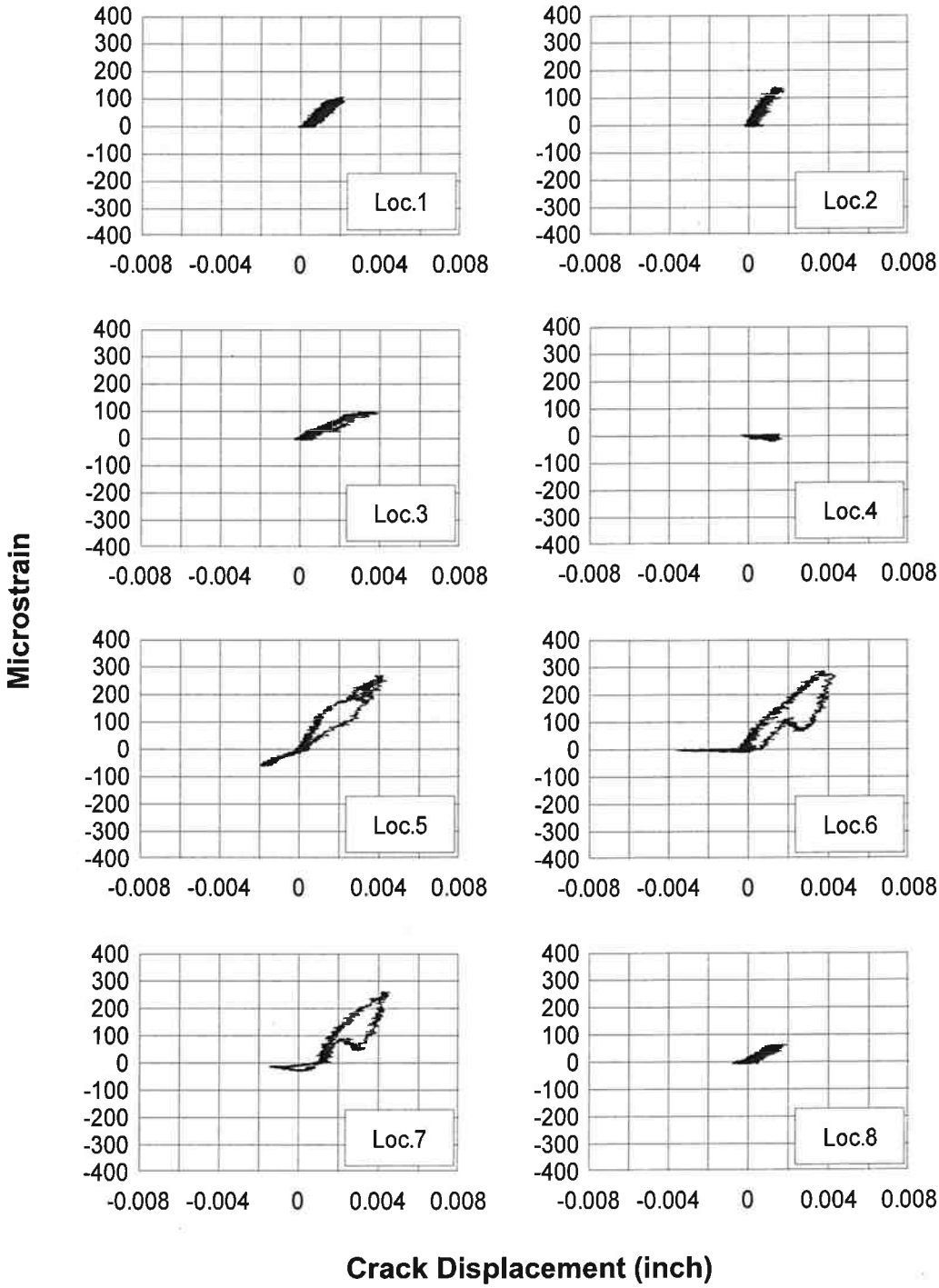


Figure A8: Strain-crack displacement plots for the northbound passage of the test truck across the bridge with a speed of 5 mph (one side of the truck on the fog line)

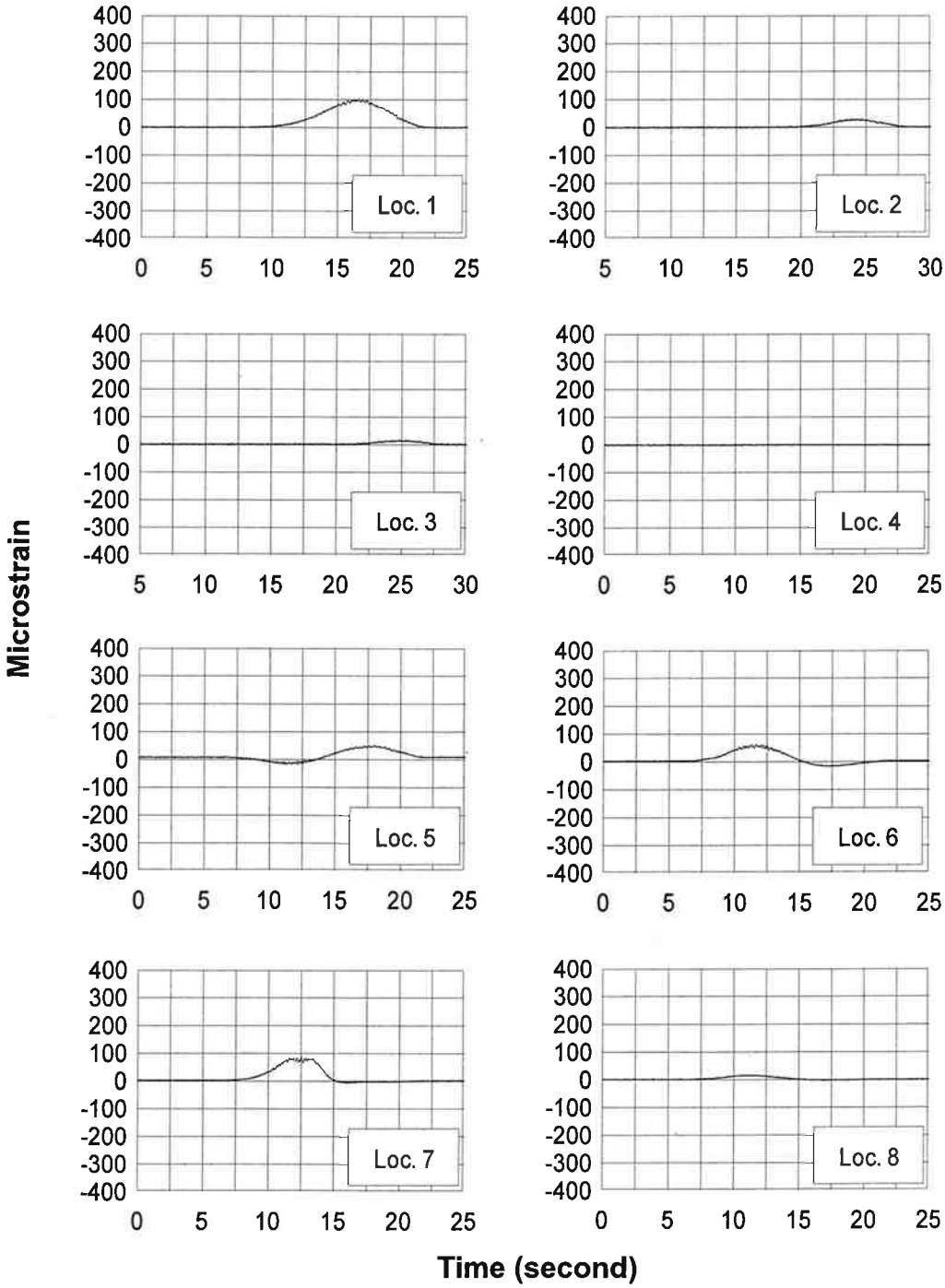


Figure A9: Strain in stirrups plots for the southbound passage of the test truck across the bridge with a speed of 5 mph

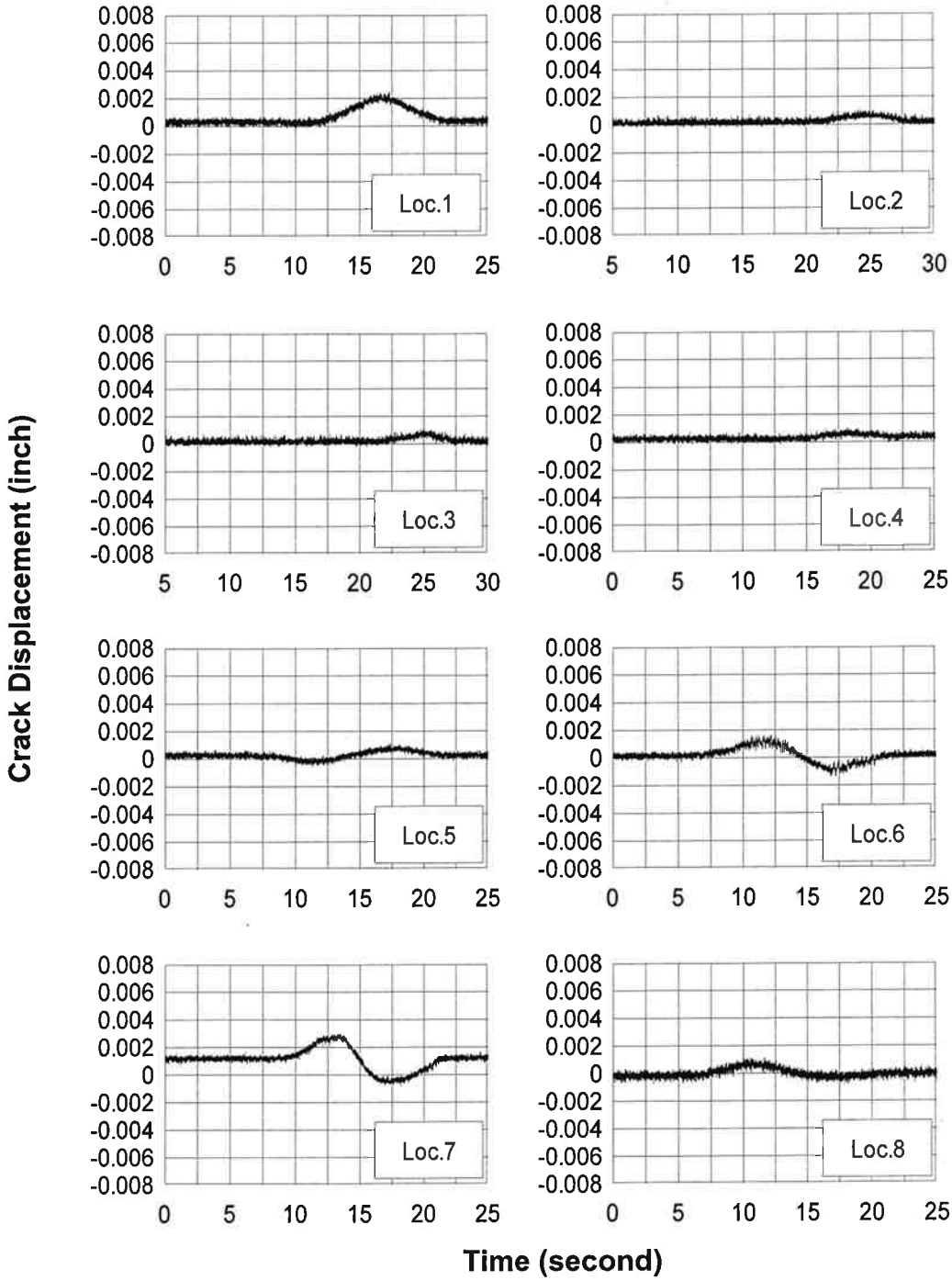


Figure A10: Crack displacement plots for the southbound passage of the test truck across the bridge with a speed of 5 mph

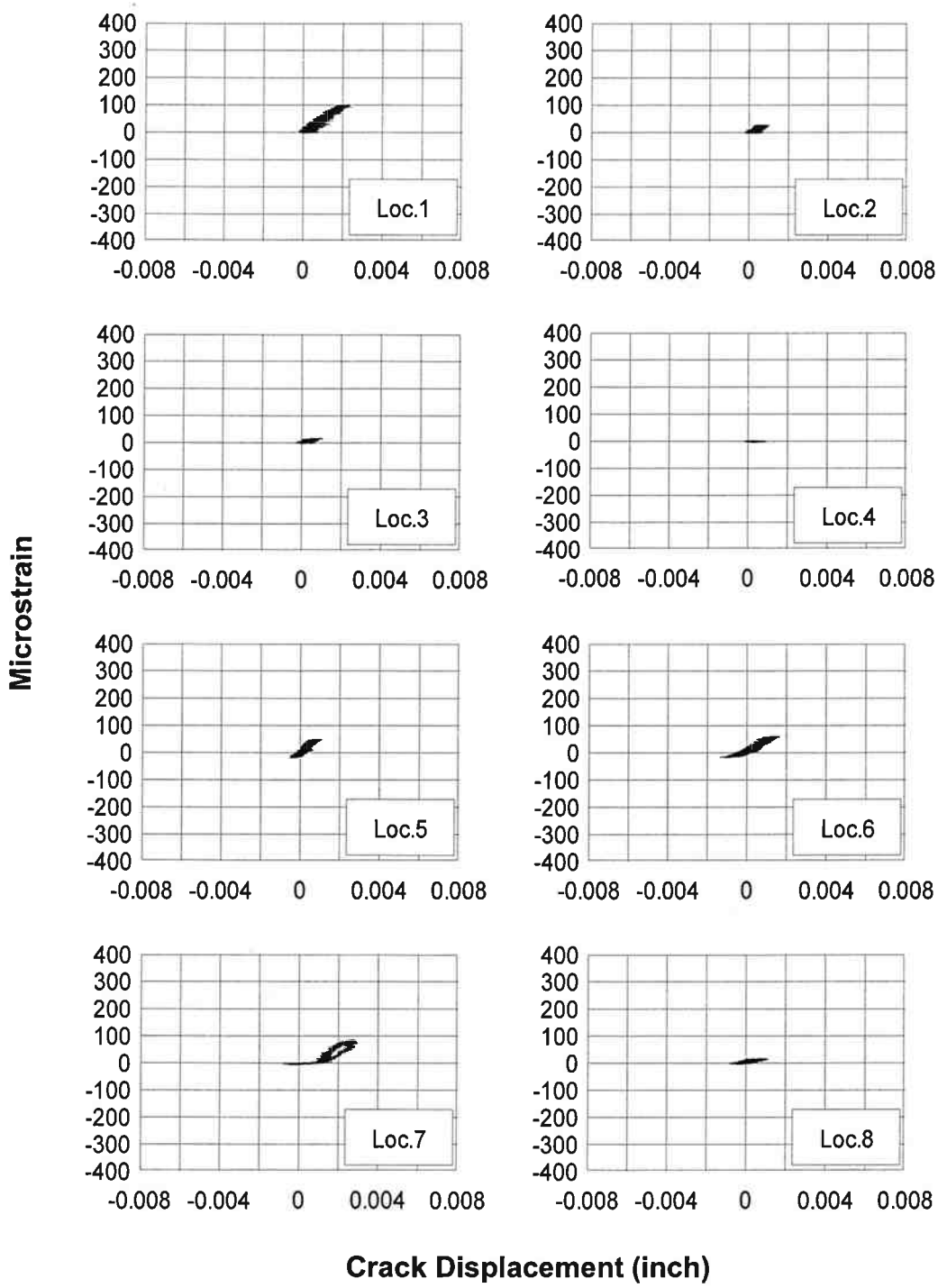


Figure A11: Strain-crack displacement plots for the southbound passage of the test truck across the bridge with a speed of 5 mph

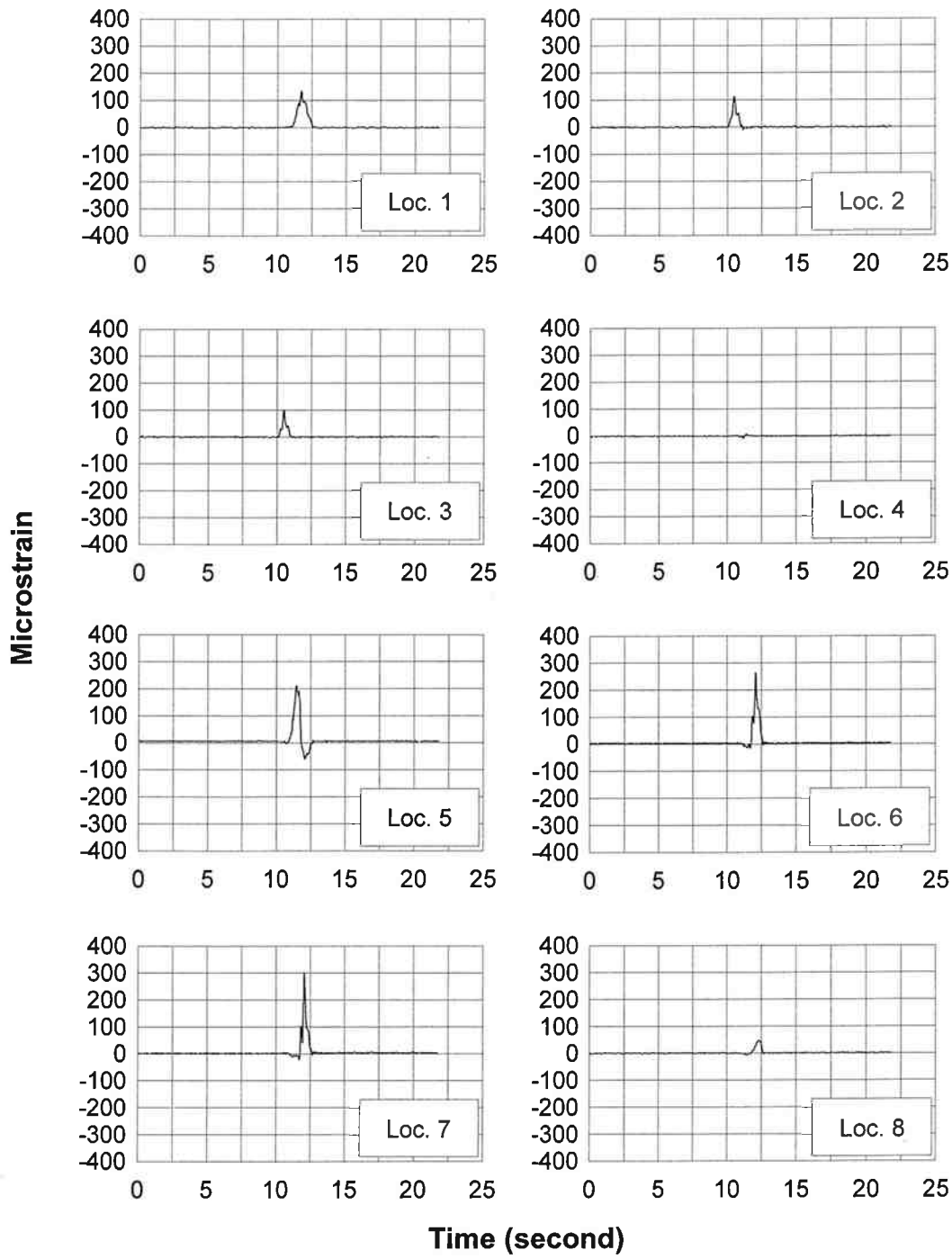


Figure A12: Strain in stirrups plots for the northbound passage of the test truck across the bridge with a speed of 50 mph

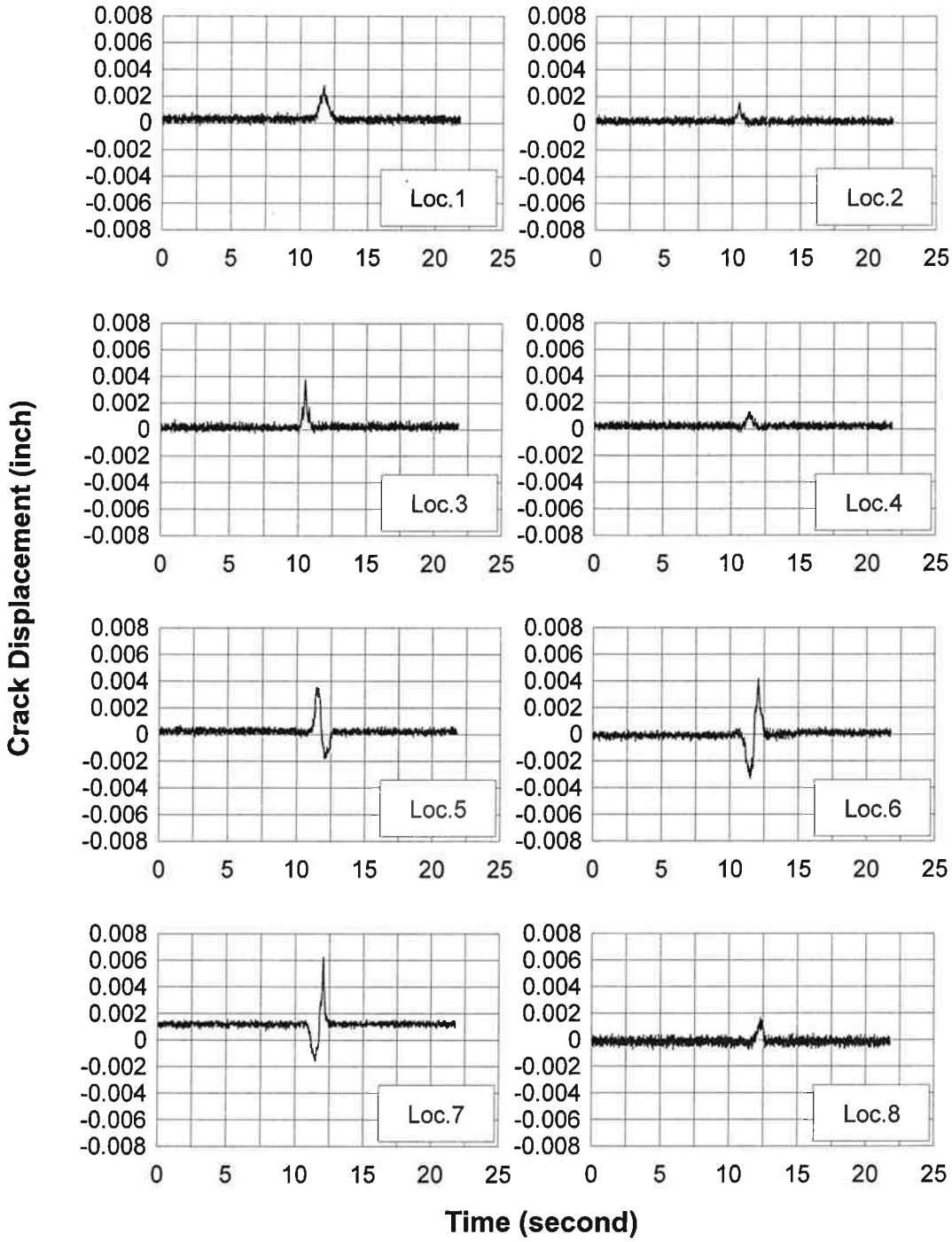


Figure A13: Crack displacement plots for the northbound passage of the test truck across the bridge with a speed of 50 mph

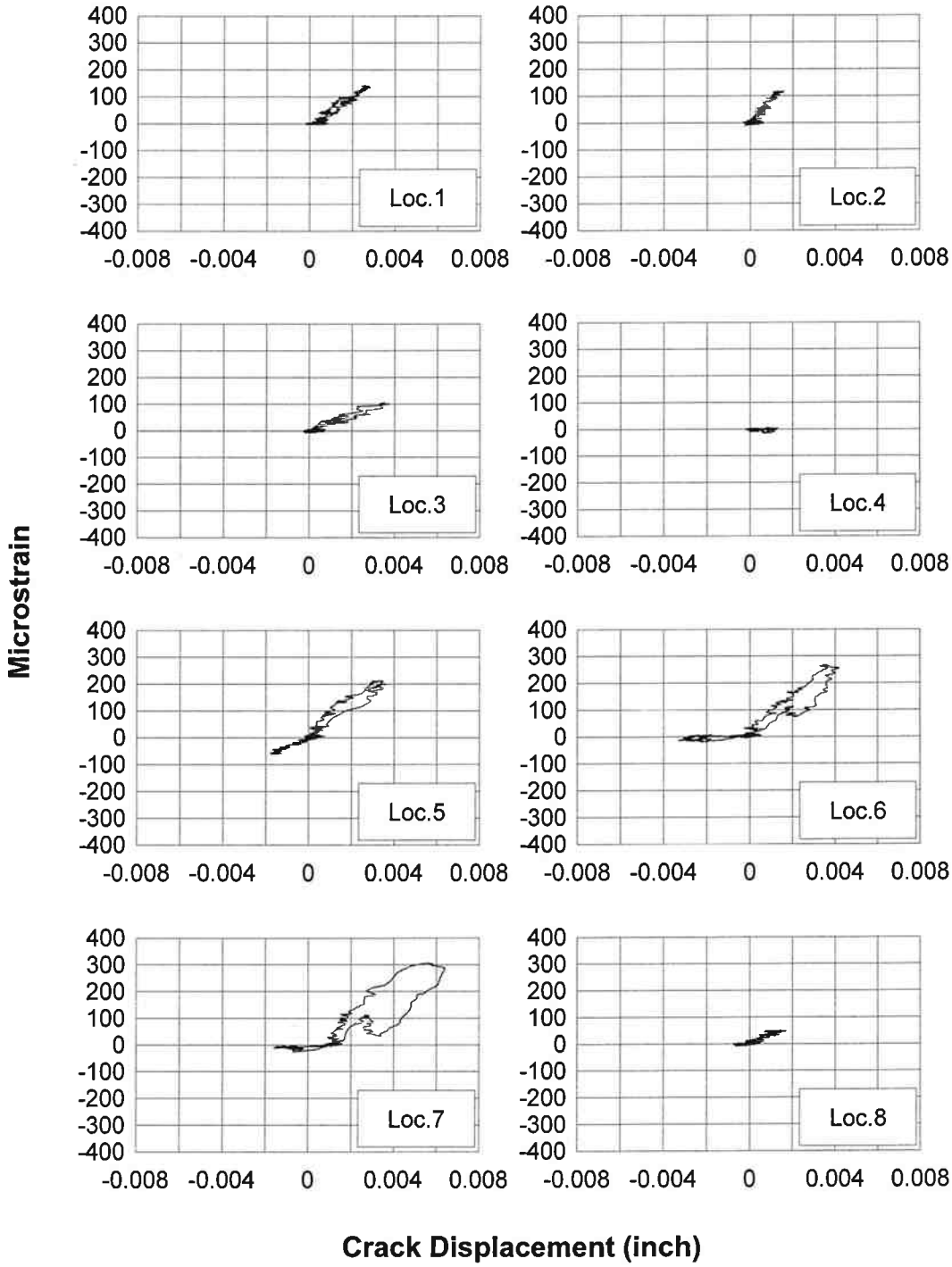


Figure A14: Strain-crack displacement plots for the northbound passage of the test truck across the bridge with a speed of 50 mph

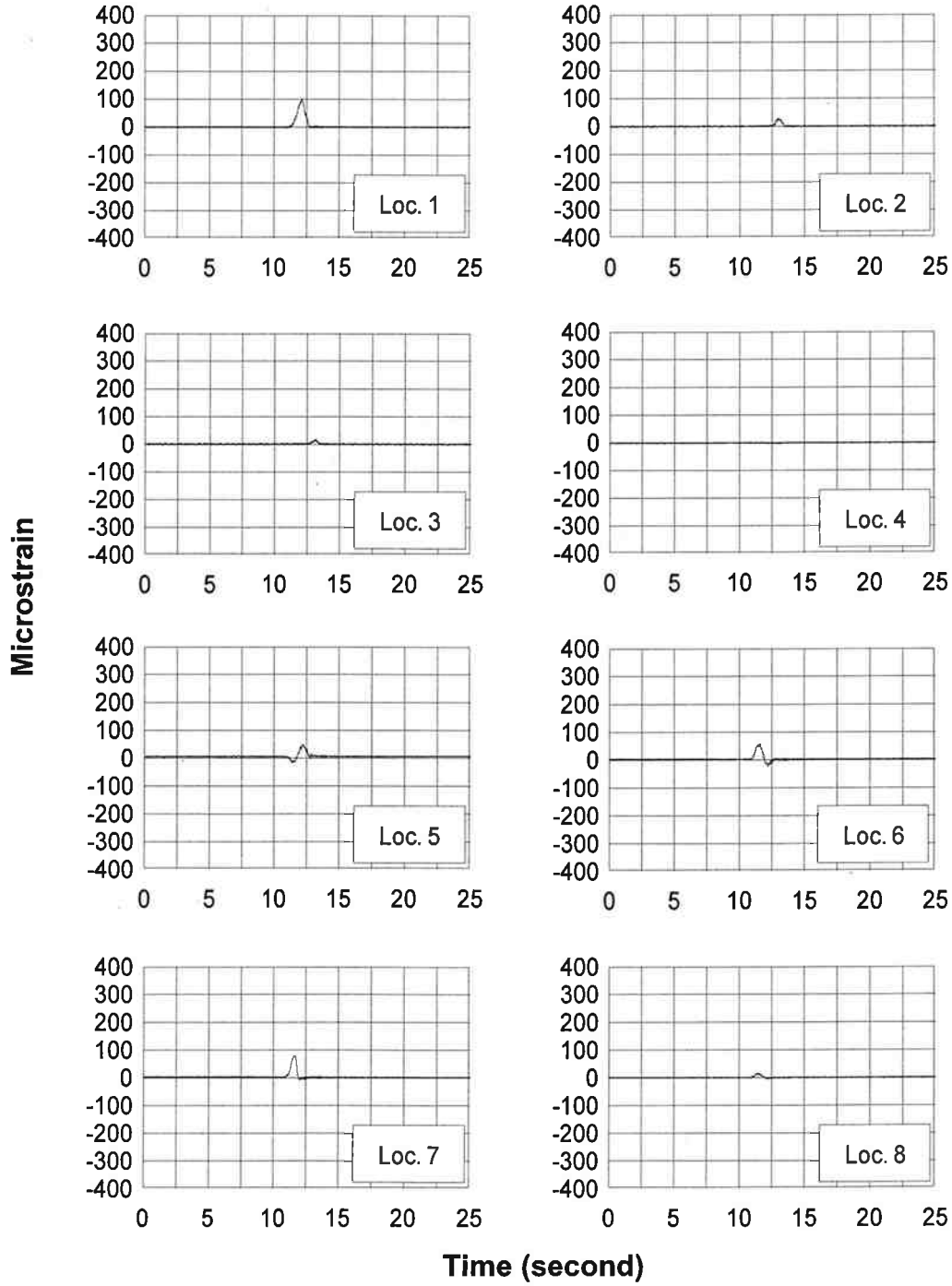


Figure A15: Strain in stirrups plots for the southbound passage of the test truck across the bridge with a speed of 50 mph

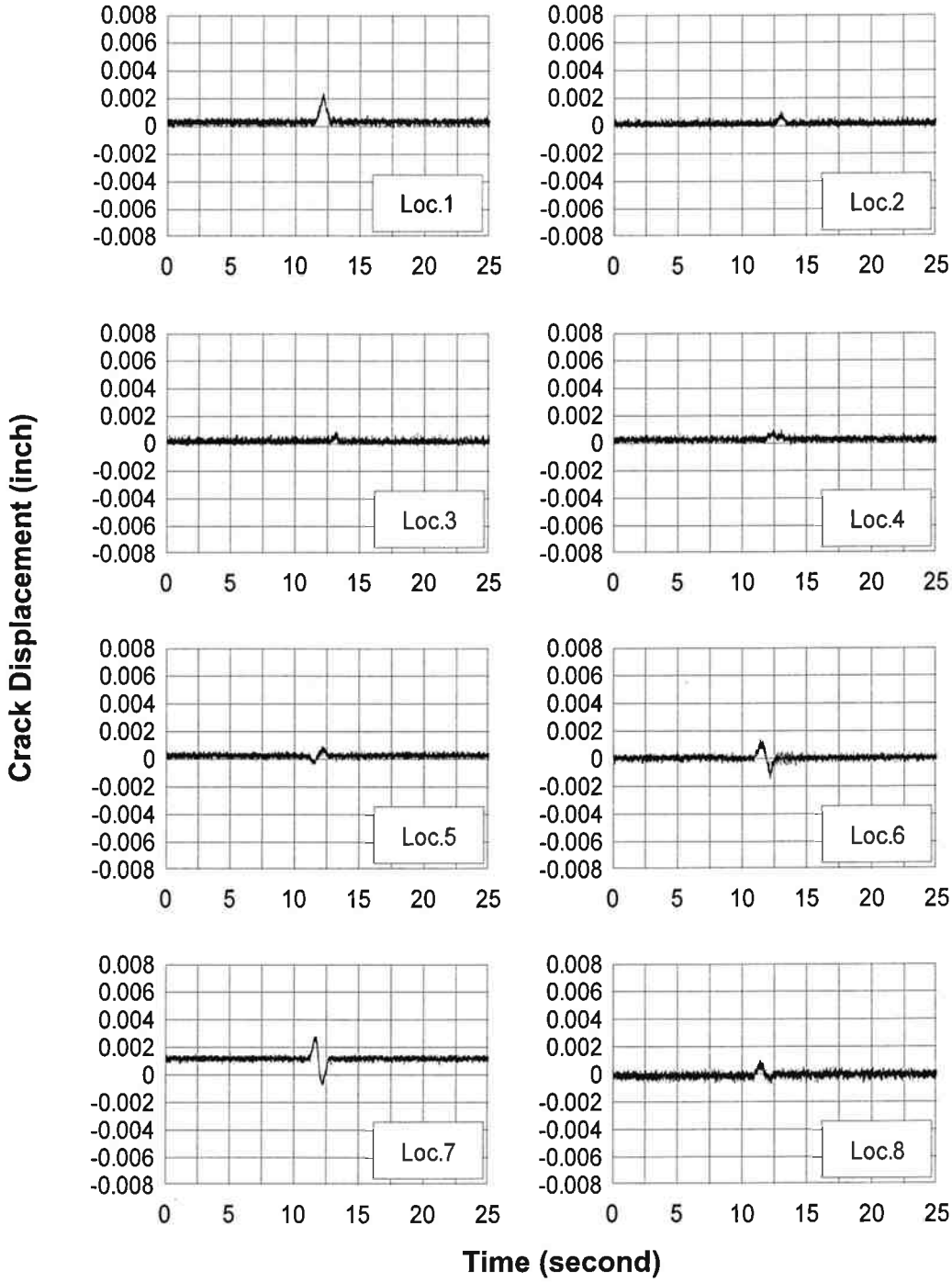


Figure A16: Crack displacement plots for the southbound passage of the test truck across the bridge with a speed of 50 mph

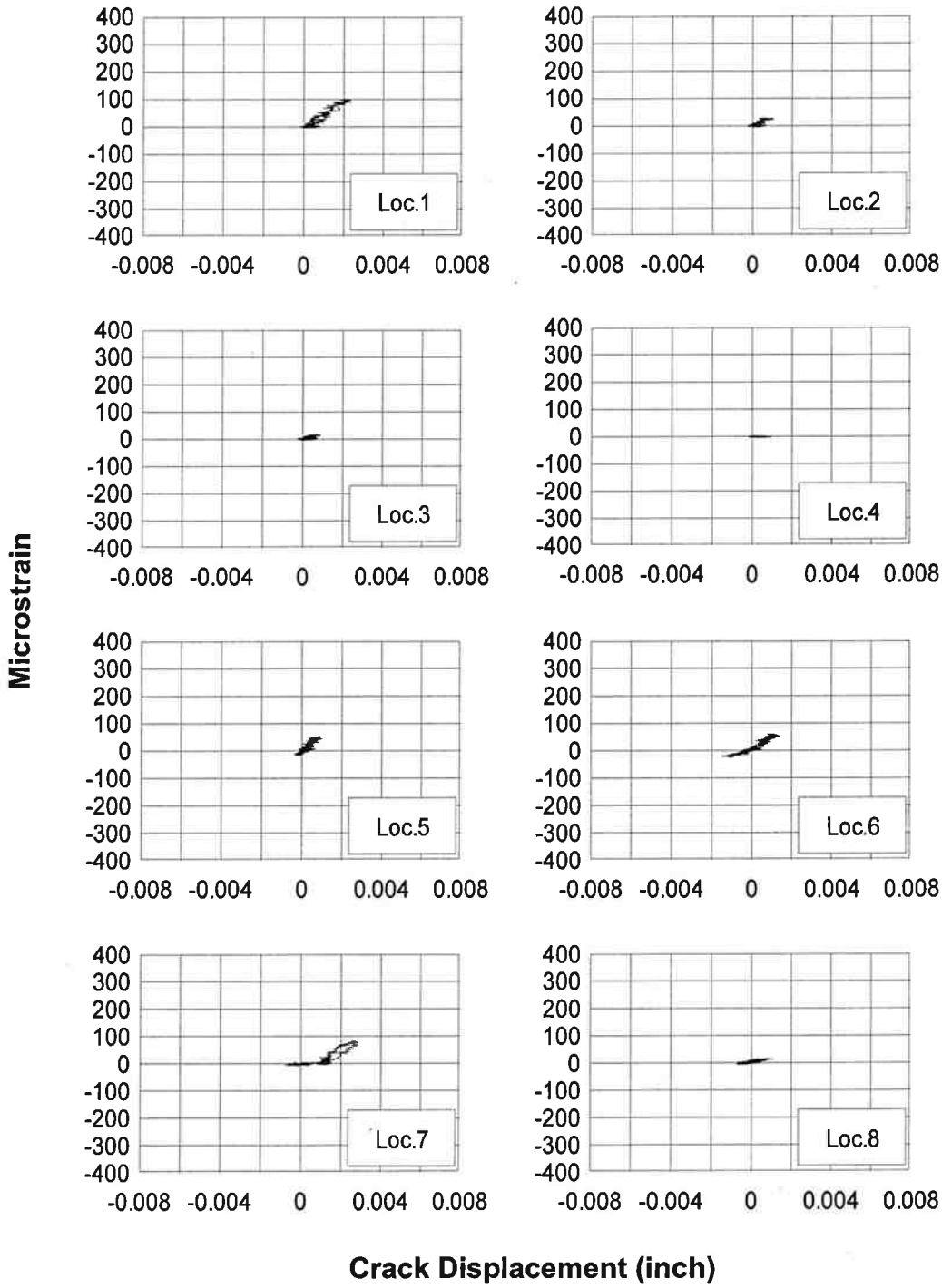


Figure A17: Strain-crack displacement plots for the southbound passage of the test truck across the bridge with a speed of 50 mph

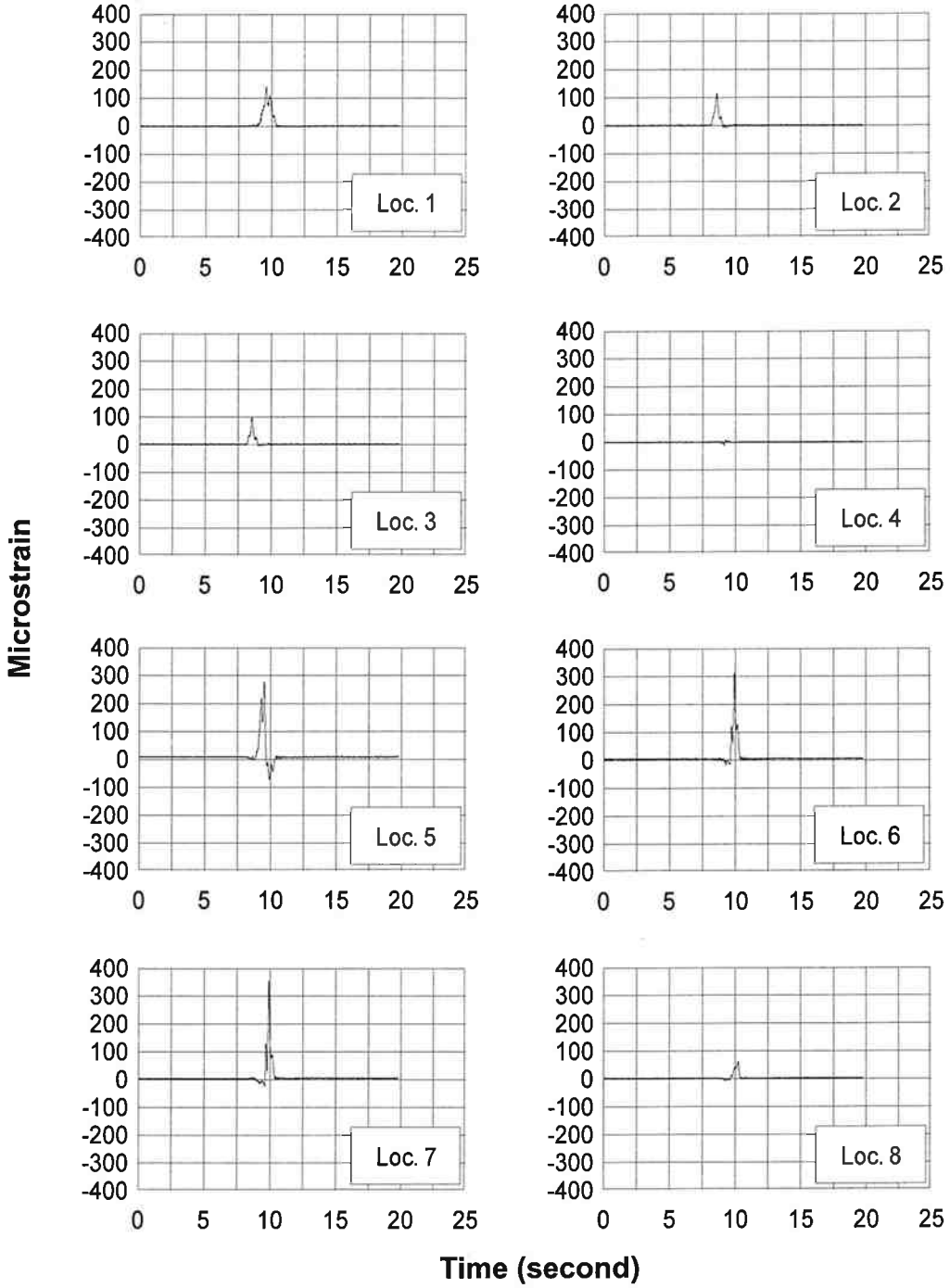


Figure A18: Strain in stirrups plots for the northbound passage of the test truck across the bridge with a speed of 56 mph

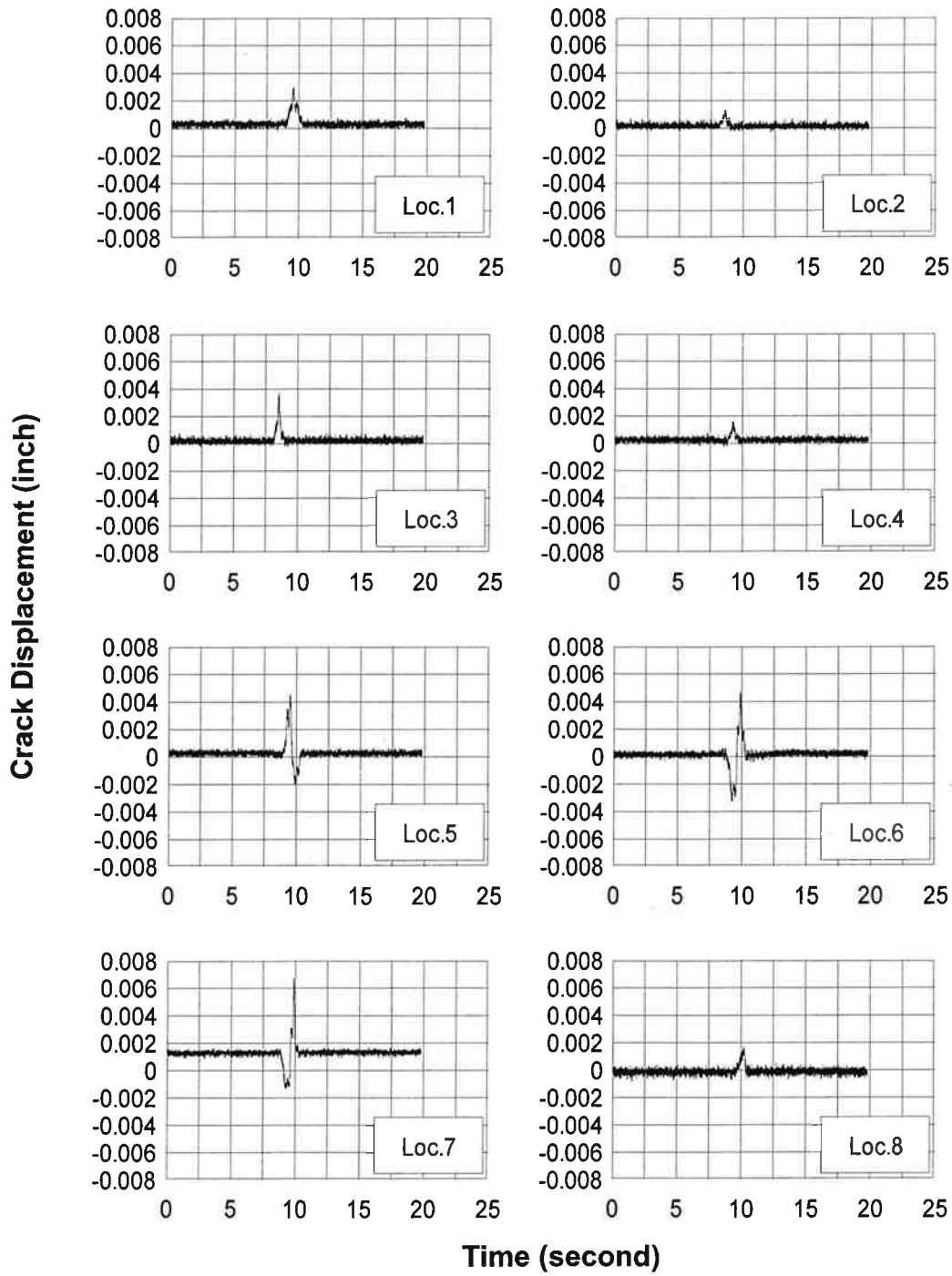


Figure A19: Crack displacement plots for the northbound passage of the test truck across the bridge with a speed of 56 mph

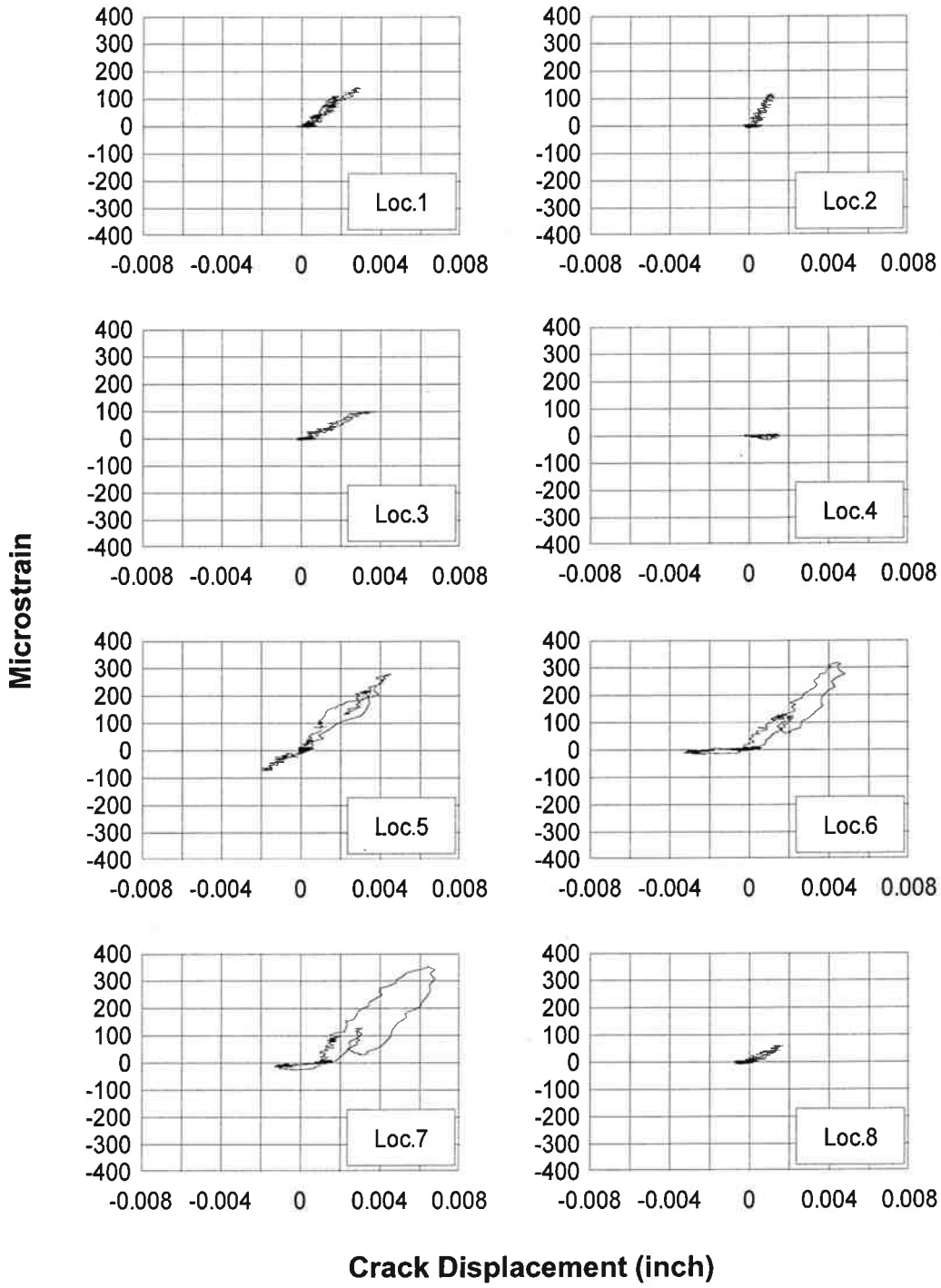


Figure A20: Strain-crack displacement plots for the northbound passage of the test truck across the bridge with a speed of 56 mph

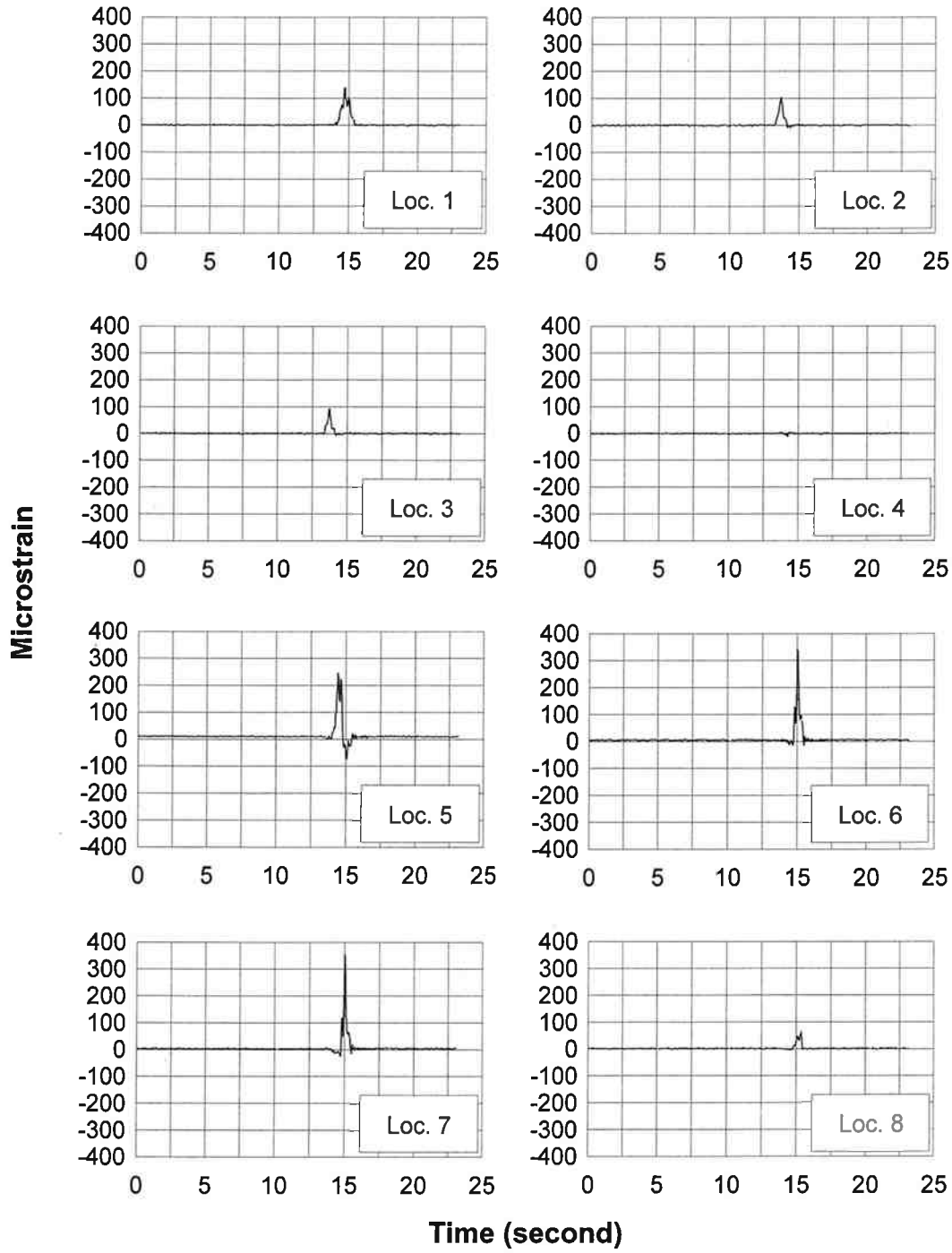


Figure A21: Strain in stirrups plots for the northbound passage of the test truck across the bridge with a speed of 59 mph

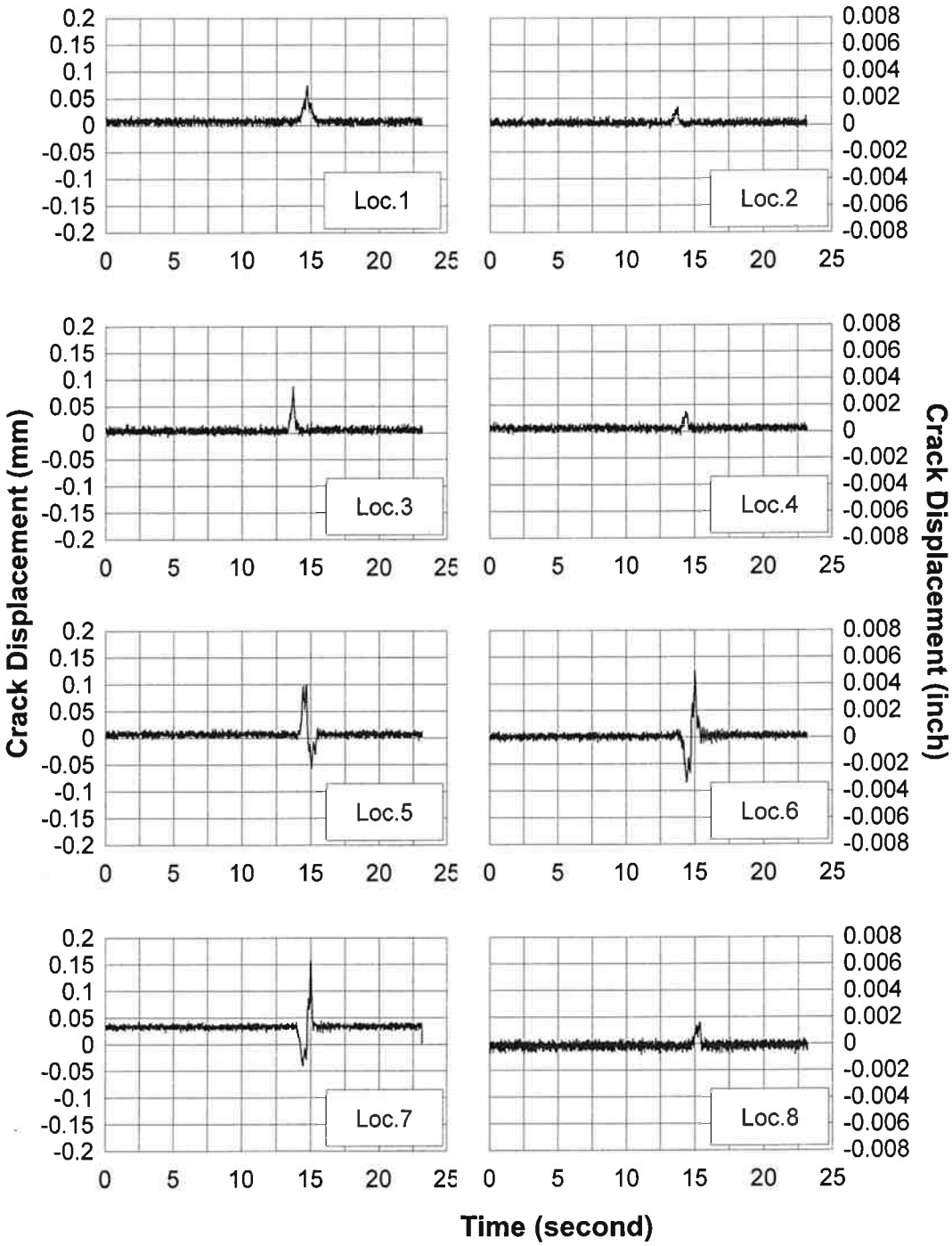


Figure A22: Crack displacement plots for the northbound passage of the test truck across the bridge with a speed of 59 mph

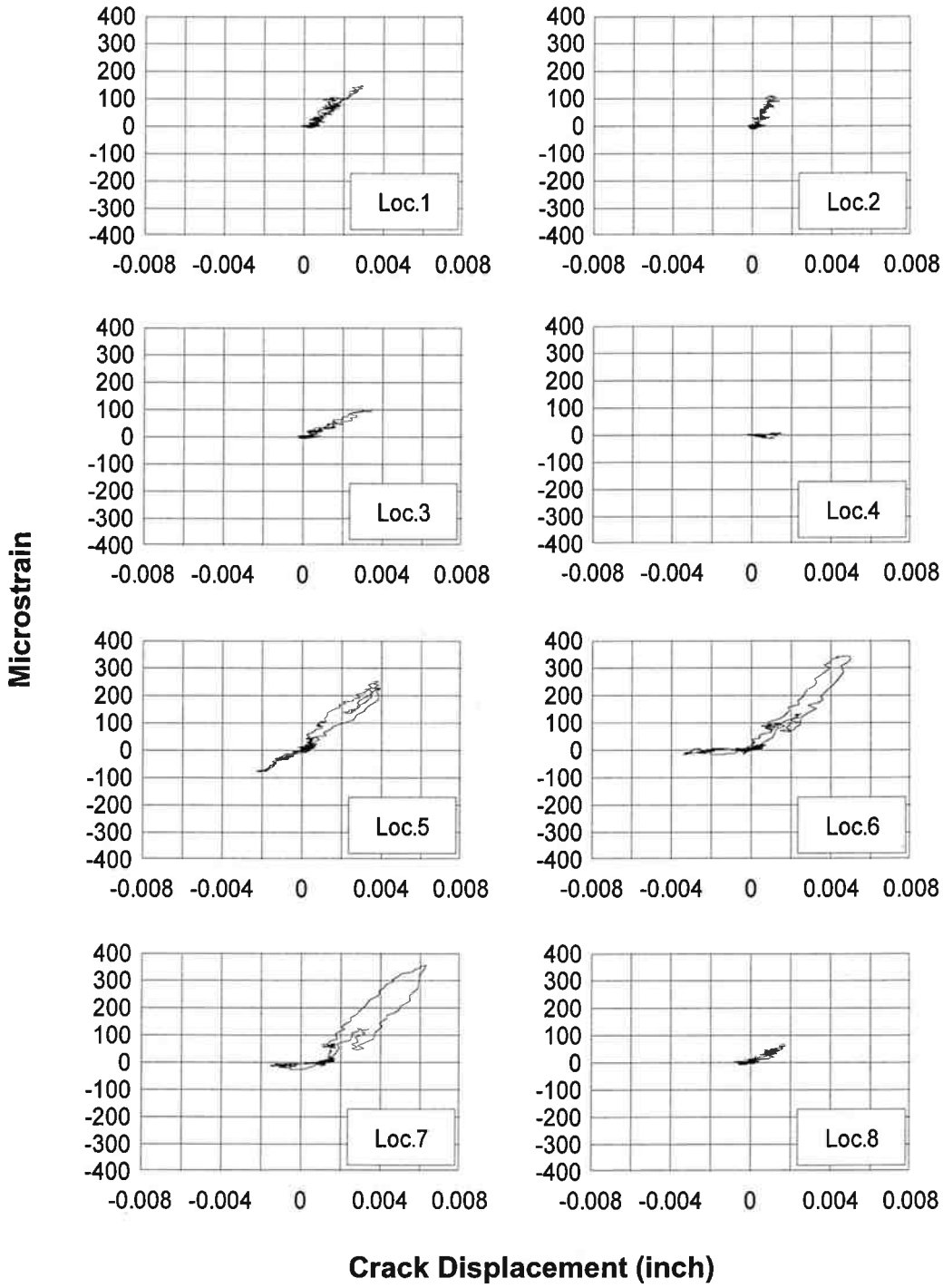


Figure A23: Strain-crack displacement plots for the northbound passage of the test truck across the bridge with a speed of 59 mph

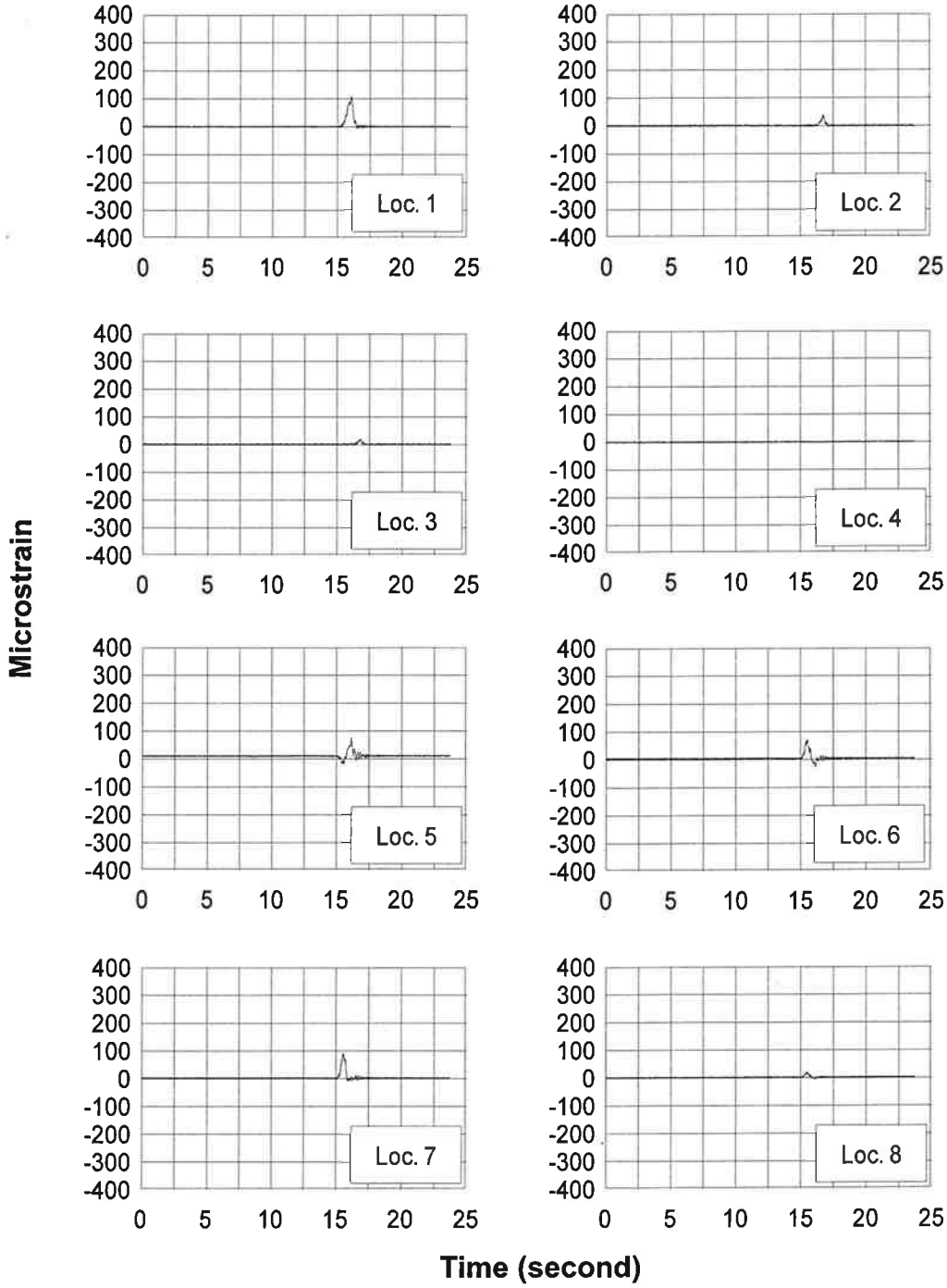


Figure A24: Strain in stirrups plots for the southbound passage of the test truck across the bridge with a speed of 64 mph

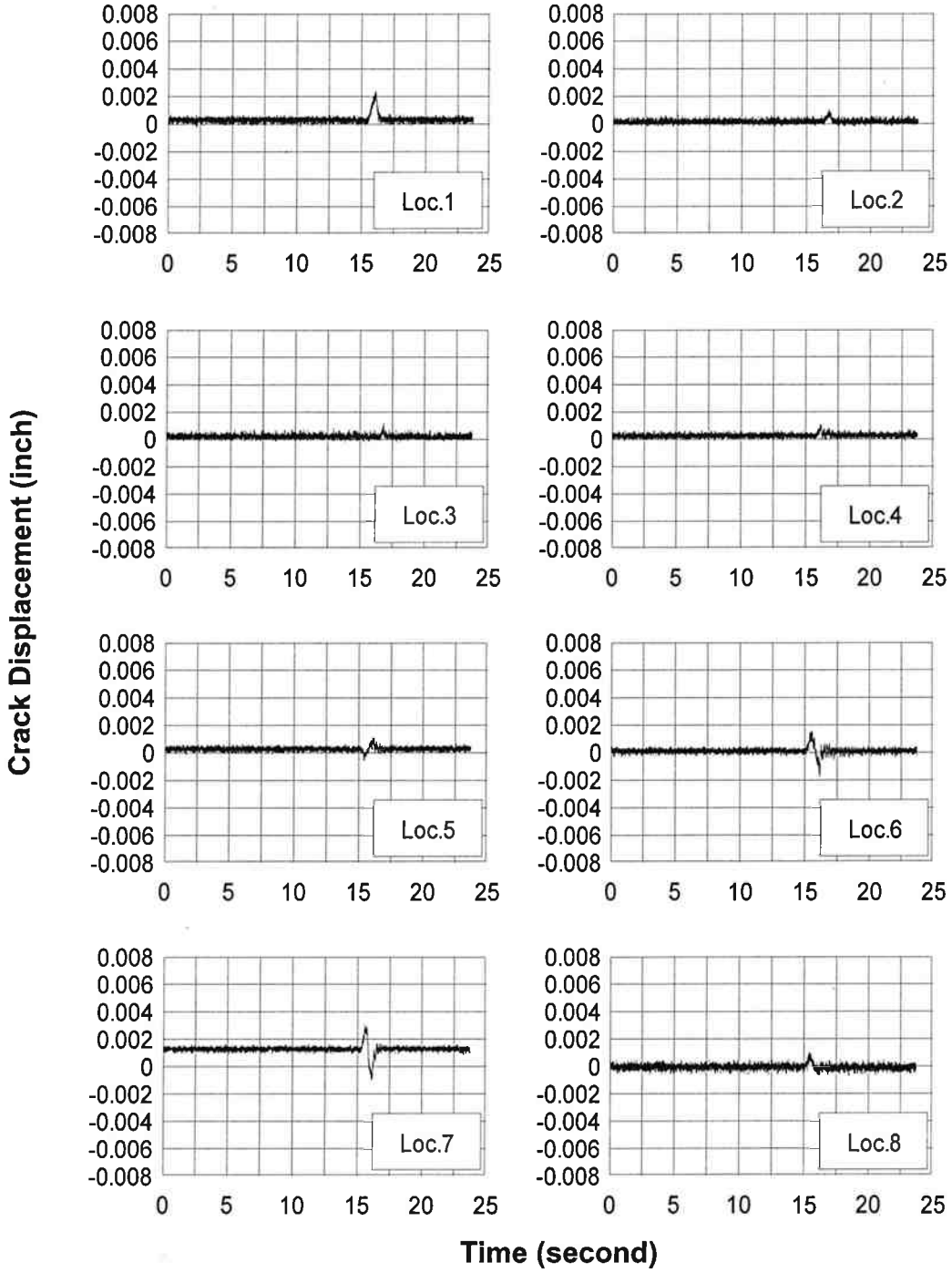


Figure A25: Crack displacement plots for the southbound passage of the test truck across the bridge with a speed of 64 mph

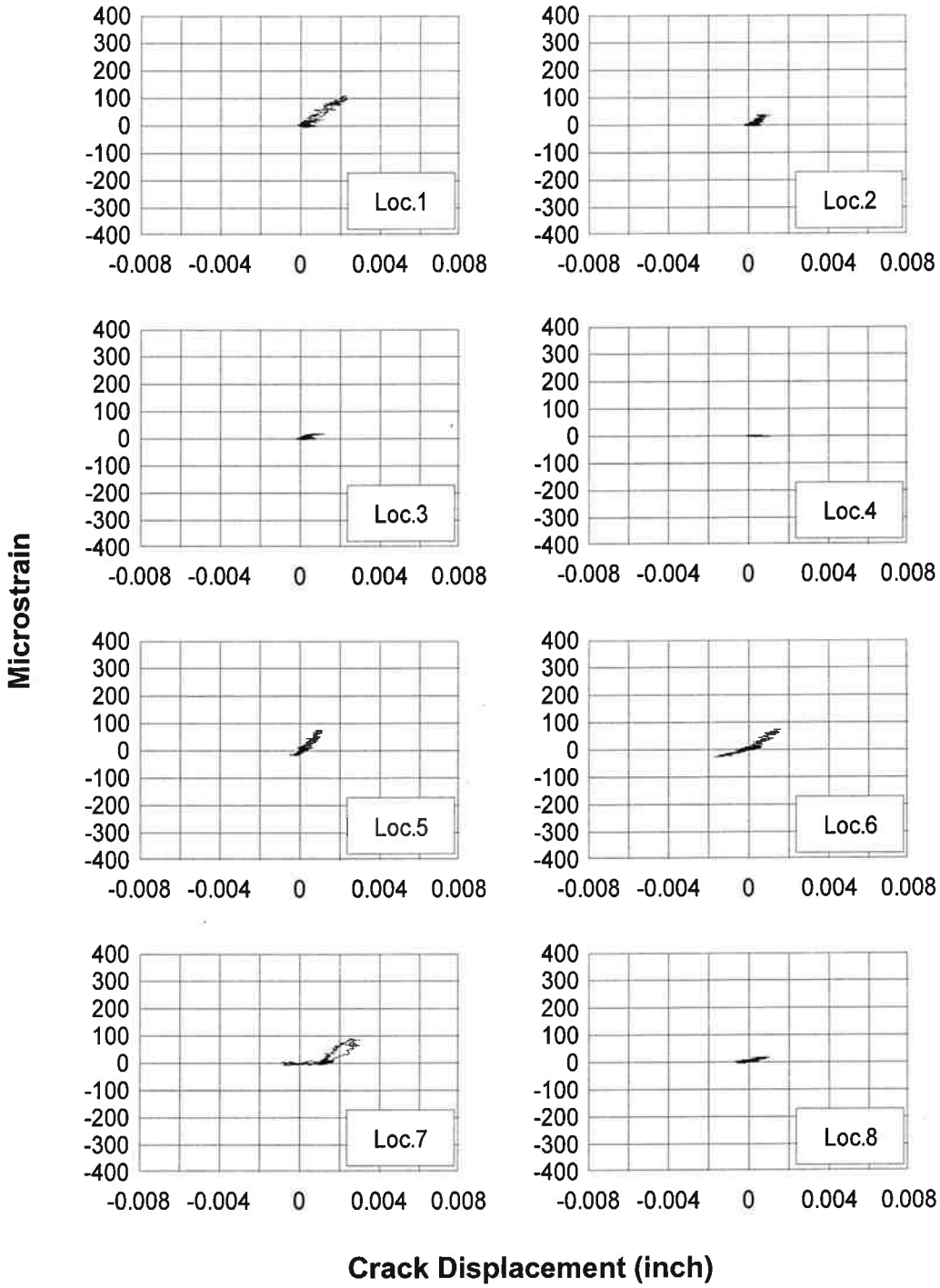
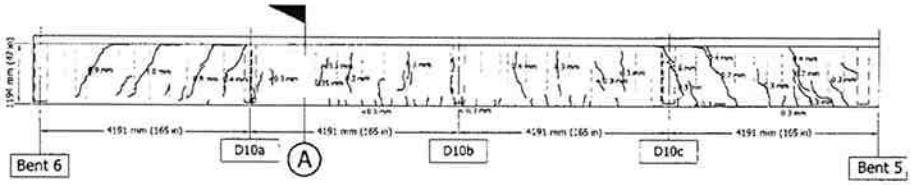
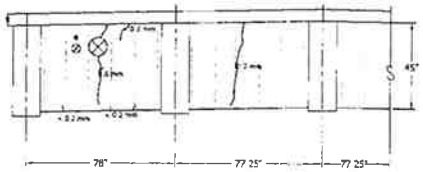


Figure A26: Strain-crack displacement plots for the southbound passage of the test truck across the bridge with a speed of 64 mph

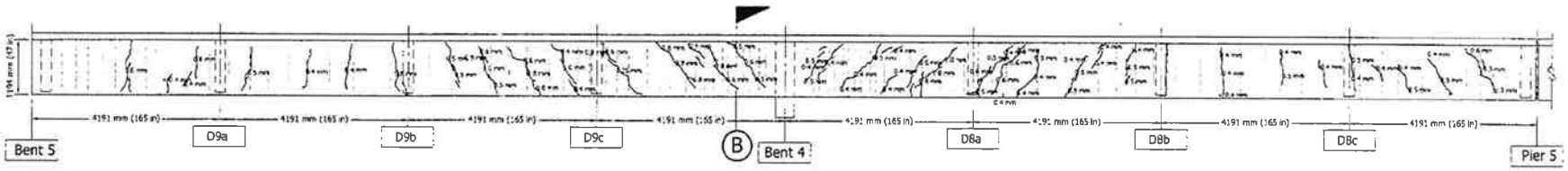
Appendix B: Crack Maps



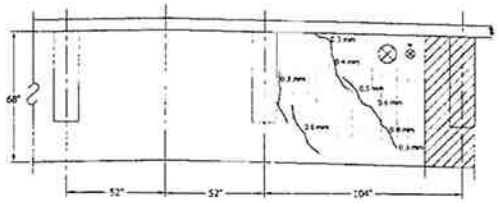
Exterior Girder of Simple Span



Section A: Diaphragm D10a



Exterior Girder of Continuous Spans



Section B: Bent4 Transverse Beam

Figure B1: Crack Maps