

# **L.A. Entertainment District EIR Traffic Study**

**January 2001**

**The Mobility Group  
with  
Kaku Associates**

## Table of Contents

	Page
1. Introduction.....	1
Project Description.....	1
Study Scope.....	3
2. Existing Conditions.....	4
Regional Roadway System.....	4
Local Roadway System.....	4
Los Angeles Convention Center Circulation.....	5
STAPLES Center Circulation.....	9
South Park Parking and Circulation Management Plan.....	9
Existing Traffic Volumes and Level of Service.....	10
Existing Transit Service.....	19
Existing Parking Conditions.....	20
Existing Pedestrian Activity.....	21
Existing Transportation Plans.....	21
3. Future Without Project Conditions.....	24
Cumulative Projects.....	24
Future Without Project Traffic Conditions.....	35
4. Future With Project Conditions.....	38
Project Transportation Characteristics.....	38
Future With Project Traffic Conditions Analysis.....	52
5. Parking Analysis.....	64
Current Parking Supply.....	64
Proposed Parking Supply.....	64
Project Parking Strategy.....	65
Future With Project Parking Conditions Analysis.....	66
Summary Analysis of Parking Impacts.....	70
6. Pedestrian System Analysis.....	74
Introduction.....	74
Methodology.....	74
Existing Conditions.....	75
Pedestrian Flow Assumptions.....	75
Pedestrian Flow Analysis.....	77
Pedestrian Safety.....	80
Conclusion.....	82
7. Congestion Management Plan Analysis.....	83
8. Mitigation Measures.....	89
Introduction.....	89
Background.....	89
Overall Mitigation Strategy.....	89
Specific Roadway Improvements.....	90
Neighborhood Protection.....	96
General Mitigation Measures.....	97
Closure of 11 <sup>th</sup> Street.....	98
Relationship to South Park Event Parking & Circulation Management Plan.....	99
Effect of Physical Mitigation Measures.....	100
Sequencing of Mitigation Measures.....	104
9. Closure of 11 <sup>th</sup> Street.....	105
Traffic Analysis.....	105
Street Design Concept Parameters.....	109
Operations/Closure Parameters.....	109

## List of Tables

	Page
Table 1 Project Description.....	1
Table 2 Existing Surface Street Characteristics.....	6,7
Table 3 Level of Service Definitions for Signalized Intersections.....	16
Table 4 Existing Conditions – Intersection Level of Service.....	17
Table 5 Trip Generation Estimates.....	26,27,28,29
Table 6 Trip Generation Rates.....	31,32
Table 7 Future Without Project Conditions – Intersection LOS.....	36
Table 8 Concept Plan – Land Use Plan – Proposed Land Uses.....	41
Table 9 Project Parking Allocation.....	42
Table 10 Trip Generation – Proposed Project.....	49
Table 11 Future With Project Conditions.....	57
Table 12 Analysis of Potential Neighborhood Impacts – Weekday.....	63
Table 13 Analysis of Potential Neighborhood Impacts – Saturday.....	63
Table 14 Proposed Project Parking.....	65
Table 15 Project Parking Code Requirements.....	67
Table 16 Peak Parking Demand Ratios.....	68
Table 17 Peak Parking Demand Estimates.....	69
Table 18 Parking Supply & Demand Summary.....	71
Table 19 Pedestrian LOS.....	74
Table 20 Sidewalk Widths.....	76
Table 21 Pedestrian Platoon LOS Results – Peak Day Conditions.....	78
Table 22 Pedestrian Platoon LOS Results – Average Day Conditions.....	79
Table 23 CMP Analysis – Arterial Monitoring Locations – Intersection LOS.....	84
Table 24 CMP Analysis – Arterial Monitoring Locations – Existing Conditions.....	86
Table 25 CMP Analysis – Arterial Monitoring Locations – Future Without Project Conditions..	87
Table 26 CMP Analysis – Arterial Monitoring Locations – Future With Project Conditions.....	88
Table 27 Analysis of 9 <sup>th</sup> Street Closure and Figueroa Street 2-Way.....	95
Table 28 Future With Project & With Mitigation Conditions – Intersection LOS – PM Peak....	101
Table 29 Future With Project & With Mitigation Conditions – Intersection LOS – Sat Eve Peak	103
Table 30 Future With Project & With Mitigation Conditions – Intersection LOS – Sat Eve Peak – 11 <sup>th</sup> Street Closed.....	108

## List of Figures

	Page
Figure 1 Project Location.....	2
Figure 2 Project Site – Current and Adjacent Uses.....	8
Figure 3 Intersection Analysis Location.....	11
Figure 4 Existing Intersection Lane Configurations.....	12
Figure 5 Existing Weekday PM Peak Hour Traffic Volumes.....	14
Figure 6 Existing Saturday Evening Peak Hour Traffic .....	15
Figure 7 Existing Intersection Levels of Service.....	18
Figure 8 Principal Locations of Pedestrian Street Crossing Activity.....	22
Figure 9 Related Projects.....	25
Figure 10 Future Without Project PM Peak Hour Traffic Volumes.....	33
Figure 11 Future Without Project Sat. Eve. Peak Hour Traffic Volumes.....	34
Figure 12 Future Without Project – Intersection LOS.....	37
Figure 13 Project Site and Vicinity.....	39
Figure 14 Conceptual Plan.....	40
Figure 15 Project Access & Egress.....	44
Figure 16 Project Trip Distribution.....	50
Figure 17 Project Only PM Peak Hour Traffic Volumes.....	53
Figure 18 Project Only Sat. Eve. Peak Hour Traffic Volumes.....	54
Figure 19 Future With Project PM Peak Hour Traffic Volumes.....	55
Figure 20 Future With Project Sat. Eve. Peak Hour Traffic Volumes.....	56
Figure 21 Future With Project – Intersection LOS.....	58
Figure 22 Traffic Control Officer & Police Deployment for STAPLES Center/LACC Events.....	81
Figure 23 Future With Project With 11 <sup>th</sup> Street Closed Sat. Eve. Peak Hour Traffic Volumes.....	107

**APPENDIX A** Project Trip Generation

**APPENDIX B** Parking Analysis

**APPENDIX C** Pedestrian Analysis

**APPENDIX D** Intersection Configurations

**APPENDIX E** 11<sup>th</sup> Street Traffic Counts