



City Mobility Planning

Houston

Northwest Sub-regional Study



This Page Intentionally Left Blank

City Mobility Planning

Northwest Sub-regional Study
January, 2014

Prepared for:
City of Houston



Prepared by:
Kimley-Horn and Associates, Inc.



City Mobility Planning

Northwest Sub-regional Study Special Thanks to:

All the residents and stakeholders within the study area that attended the meetings and provided feedback throughout the process.

Stakeholder Advisory Committee

Anibeth Turcios, Greater Northside Management District

Bakayak Nelson, Harris Co. Public Health & Environmental Services

Carra Moroni, COH - Health and Human Services

Craig Powers, Oak Forest Homeowners Association

Dan Raine, COH - Public Works & Engineering Department

David Gao, H-GAC

Davis Graves, HPB

Debbie Khymer, Ridgepoint

Ed Gonzalez, COH - Councilman District H

Eileen Egan, Near Northwest Management District

Hans-Michael Ruthe, H-GAC

Heng Weng, H-GAC

Janice Maaskant, Harris Co., Public Infrastructure Department

Jim Mackey, White Oak Bayou Association

Jim Webb, The Goodman Corporation

Jose Trevino

Larry Badon, Houston METRO

Laura Tromp, COH - Council Member Gonzalez Office

Loyd Smith, Harris Co., Public Infrastructure Department

Marco Montes, Harris Co. Precinct 4

Nancy Wilcox, White Oak Bayou Association

Paul Dugal, COH - Parking Management

Rachael Die, COH - Parks & Recreation Department

Ralph Deleon, COH - Economic Development, Mayor Office

Rebecca Rayne, Greater Northside Management District

Rob Block, Avenue CDC

Stacy Slawinski, Harris Co., Public Infrastructure Department

Tom Gall, Bike Houston

Virginia Duke, Lindale Park Civic Club

City Staff

Khang M. Nguyen - Project Manager, Public Works & Engineering Department

Amar Mohite - Co-Project Manager, Planning & Development Department

Table of Contents

I. Introduction.....	7	V. Changing Mobility Considerations	39	VIII. Next Steps.....	131
1.1 The Study Area.....	9	5.1 Addressing the Shift in How Transportation is Viewed	39	8.1 The Purpose of this Study.....	131
1.2 Study Area Objectives and Tools	11	5.2 Complete Streets and Houston	40	8.2 Outcomes of this Study.....	132
II. Northwest Existing Conditions	15	5.3 Health in the Community	42	X. Appendix A.....	136
2.1 2013 Major Thoroughfare and Freeway Plan.....	16	5.4 Street Connectivity Considerations	44	X. Appendix B	148
2.2 Existing Transit Routes	18	5.5 Bicycle User and Facility	50	X. Appendix C	152
2.3 Existing Bicycle Facilities.....	20	5.6 Sidewalk Design Considerations	56		
2.4 Existing Travel Conditions by Period of Day	22	5.7 Transit Corridor Selection	58		
		5.8 Intersection Design Considerations	60		
		5.9 Integration of Modal Types	64		
III. Community Involvement	27	VI. A Balanced Approach	67		
3.1 Public Meeting #1:.....	28	6.1 Defining the Priority Elements	68		
3.2 Stakeholder Meeting #1:	28	6.2 Corridor Sheets	73		
3.3 Stakeholder Meeting #2:.....	29				
3.4 Public Meeting #2.....	30	VII. Outcomes.....	107		
IV. Defining Future Mobility Conditions....	33	7.1 2035 Major Thoroughfare and Freeway Plan.....	108		
4.1 Travel Demand Forecasting	33	7.2 Intersection Analysis.....	110		
		7.3 Bike Vision Map.....	124		
		7.4 Transit and Pedestrian Vision Map	126		
		7.5 Multi-Modal Classification Map.....	128		

This Page Intentionally Left Blank