

Outline













- Review of Action Items
- Community Walk Audits Summary
- Mobility Assessment
- Draft Measures of Effectiveness
- Potential Design Solutions
 - Guidelines
 - Concepts
- Community Workshop May 16, 2011
- Next Working Group Meeting June 16, 2011



Technical Team Introduction











- Thomas Landre City of SD PM
- Oscar Valdivieso City of SD
- Tracy Reed City Redevelopment
- Bill Darnell Darnell & Assoc. Inc, Traffic
- Lewis Michaelson Katz and Associates
- Tricia McColl David Evans (DEA), Civil Engineer
- Lili O'Connor Parterre, Landscape Architect





Working Group Introduction

- Laura Riebau EACPC
- Jody Talbott CNF
- Betty White RPCC
- Lee Rittiner RPCC/EAPAC
- Jeannette Maxwell Crossroads PAC BOD
- Jim Stone Walk San Diego
- Jennifer Finnegan College Area BID
- Anna Orzei-Arnita Redwood Village CC
- Jim Bartell Northgate Markets
- Mario Ingrasci Crossroads PAC
- Randy VanVleck CHCDC
- Samantha Ollinger San Diego County Bicycle Coalition





















- 54th Street to 58th Street
 - 54th Street is not safe for pedestrians
 - High volume of children and elderly pedestrians
 - Free right turn encourages speeding
 - Intersections are very wide
 - Intersections are too far apart
 - J-walking east of 54th Street
 - Sight distance is poor on the north side of the street
 - Median island is not complete
 - Median landscaping is needed
 - Chollas Intersection is not safe
 - The skewed angle limits visibility
 - The stop signs are not effective











- No steps or ramp across from University Square
- Bus stop waiting area is too small
- Pedestrian timing seems too short
- Limited number of pedestrian crossings over long distances
- Semi Trucks and Trailers park on the street
- Need left turn signal at 58th Street
- Missing sidewalk east of 60th Street
- Obstructions in the sidewalks east of 60th Street
- Steep driveways east of 60th Street
- Need left turn signal at 58th





Barnell & Association





College Avenue to Bonillo

- Missing sidewalk
- Parking lots and drive aisles in the public right of way
- On street parking is needed for businesses
- Sometimes there is spill over of parking into the community
- Need wider sidewalks in commercial areas
- Drainage Improvements needed at Bonillo Drive
- Drainage improvements needed at Cartagena Boulevard
- Cars back out onto University Avenue in some locations
- Driveways are very close together

















Bonillo Drive to Aragon Drive

- Missing sidewalk
- Parking lots and drive aisles in the public right of way
- On street parking is needed for businesses
- Drainage Improvements needed at Rolando Boulevard
- Cars back out onto University Avenue in some locations
- Driveways are very close together on the north side of the street







Aragon Drive to 69th Street

- Improvements at Kroc Center are in good condition
- Median and Landscaping is in good condition
- Staging Buses cause sight distance problem at 69th Street
- Drainage improvements needed at Alamo Drive
- Parking lots and drive aisles in the public right of way
- On street parking is needed for businesses
- Drainage Improvements needed at Rolando Boulevard
- Cars back out onto University Avenue in some locations
- Driveways are very close together on the north side of the street







Walk Audit Results











Walk Audit Summary

- Pedestrian Safety Poor at 54th, Bonillo to Aragon, Aragon to 69th
- Bicycle Facilities Poor
- Transit Poor at 54th and Bonillo to Aragon
- Potential to reduce on street parking west of College
- Need for dedicated bike lanes
- Street trees 54th Street and east of Bonillo
- Consolidate driveways east of Bonillo
- Free rights create a conflict





Questions















5









Summary 2030 Conditions

- Vehicular Traffic increase 24%
 Pedestrian Traffic 25% increase
- Bicycle Traffic 25% increase
- Transit Ridership 19% increase















- 4 lane major roadway
- Future condition dual left turns at College Avenue
- Future Conditions dual left turns at 54th Street if Chollas Parkway is closed
- Chollas Parkway intersection
 - Close to through traffic
 - Realign with signalized Tee Intersection
- Surface improvements to be ADA compliant
- Traffic Signals to be ADA compliant
- Mid block cross walks don't meet warrants
- Striped cross walks at non-signalized intersections don't meet City Council Policy





- Sidewalks 10 feet preferred ADA
- Crosswalk 10 feet minimum
- Two ramps per corner preferred
- Bike Lanes Planned
- Transit Improve Shelters and Access
 - Parking Maintain some street parking
 East of College









Draft Measures of Effectiveness



Pedestrian









Walkability Sidewalk Accessibility Crosswalks Potential Vehicle/Pedestrian Conflicts at intersections Potential Vehicle/Pedestrian Conflicts at Mid-Block Locations Pedestrian Safety Transit Transit Access **Transit Amenities Bicycle Facilities** Potential Vehicle/Bicycle Conflicts at intersections Potential Vehicle/Bicycle Conflicts at Mid-Block Locations Other **Aesthetics** Parking







Draft Measures of Effectiveness











Roadway Level of Service (Volume to Capacity Ratio) Intersection Level of Service (Volume to Capacity Ratio) **Intersection Delay** Passenger Vehicle Travel Time **Corridor Delay** Parking Capacity Change Parking Maneuver/Traffic Flow Conflicts Storm Drainage Stormwater management **Compliance with City Design Standards Right of Way Impacts Environmental Impacts** Maintenance Liability

City of San Diego University Avenue Mobility Study

Engineering





Design Solutions



- ADA Guidelines for Access and Signals
- Street Lighting Standards
- San Diego Regional Standards
- No Additional City Maintenance Budget
 - Landscaping
 - Ladder Crosswalks
 - Street Furnishings
 - Decorative Pavement
- No Right of Way Acquisition

















Four Lane Major











Width, Right-of-Way		120 ft. (36.0 m)
Design ADT	LOS C LOS D	30,000 35,000
Design Speed		55 mph (90 km/h)
Width (includes bike lanes and 16 ft. (4.8 m) raised center median), Curb-to-Curb ^{1,2}		76 ft. (22.8 m)
Maximum Grade		7%
Minimum Curve Radius		1,850 ft. (585 m) with no superelevation 1,350 ft. (430 m) with 2% (min.) superelevation 880 ft. (275 m) with 10% (max.) superelevation
Land Use Parkway		Single Dwelling Residential-no front or side yards; Multiple Dwelling Residential-no front or side yards; Community Commercial-no front yards; Regional Commercial; Commercial Office; Visitor Commercial; Church; Public Building; Industrial; Open Space U-4 (b)

¹ Widen additional 10 ft. (3.0 m) at approaches to intersecting four-or-six-lane streets to provide a minimum of 250 ft. (75 m) of two-lane left-turn storage, exclusive of transitions. Receiving lanes for dual lefts shall be 12 ft. (3.6 m) wide. In instances where supporting information exists, such as an approved traffic impact study, showing clearly that dual left-turn lanes would not be warranted, the standard curb-to-curb width may be permitted.

² At intersections, a minimum 6 ft. (1.8 m) wide refuge island shall be maintained in the center median.







Four Lane Urban Major











Width, Right-of-Way		118 ft. (35.6 m) - 130 ft. (39.0 m)
Design ADT	LOS C	30,000
	LOS D	35,000
Design Speed		45 mph (70 km/h)
Width (includes bike lanes and 16 ft. (4.8 m) raised center median), Curb-to-Curb ^{1,2}		90 ft. (27.0 m)
Maximum Grade		7%
Minimum Curve Radius		1,090 ft. (325 m) with no superelevation 830 ft. (245 m) with 2% (min.) superelevation 660 ft. (195 m) with 6% (max.) superelevation
Land Use		Single Dwelling Residential-no front or side yards; Multiple Dwelling Residential-no front or side yards; Neighborhood Commercial; Community Commercial; Regional Commercial; Commercial Office; Visitor Commercial; School_(high school and above); Church; Public Building; Urban Village Commercial Retail; Industrial
Parkway Options		U-4 (a); U-5 (a,b); U-6 (a,b)

NOTE: Four-Lane Urban Major street classification is applicable to streets of limited length, where intersections are closely spaced, where there is extensive driveway access, or in other situations where the speed is expected to be less 45 mph (70 km/h) or less. ¹ Widen additional 10 ft, (3.0 m) at approaches to intersecting four- or six-lane streets to provide a minimum of 250 ft, (75 m) of two-lane left-turn storage, exclusive of transitions. Receiving lanes for dual lefts shall be 12 ft. (3.6 m) wide. In instances where supporting information exists, such as an approved traffic impact study, showing clearly that dual left-turn lanes would not be warranted, the standard curb-locurb width may be permitted.

² At intersections, a minimum 6 ft. (1.8 m) wide refuge island shall be maintained in the center median.







Cross Sections

54th Street to 58th Street









NO SCALE









Cross Sections

54th Street to 58th Street















Cross Sections

54th Street to 58th Street









City of San Diego University Avenue Mobility Study



ſ





































College Avenue to Aragon Drive

College Avenue to Aragon Drive









City of San Diego University Avenue Mobility Study



ſ










T









ſ















54th Street – Free Right Turns

















Re-striping at 54th Street – Delete Free Right Turns





















Community Meeting Schedule











Community Workshops

- 1. Tuesday, March 8, 2011
- 2. Monday, May 16, 2011
- 3. Thursday, July 21, 2011

Working Group Meetings

- 1. Tuesday, February 22, 2011
- 2. Tuesday, March 22, 2011
- 3. Tuesday, April 26, 2011
- 4. Thursday, June 16, 2011
- Community Planning Group Meetings
 - 1. Tuesday, September 13, 2011 Preliminary Alternatives
 - 2. Tuesday, October 11, 2011 Present Report



