

Outline











Introduction

- Results of the Community Walk Audits
- Existing Conditions Assessment
- Future Conditions Assessment
- Design Guidelines for Assessing Alternatives
- Draft Measures of Effectiveness
- Preparation for Community Workshop
- Close





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/EACPC
- Jeannette Maxwell Crossroads PAC BOD
- Jim Stone Walk San Diego
- Jennifer Finnegan College Area BID
- Anna Orzei-Arnita Redwood Village CC
- Jim Barteu Northgate Markets
- Mario Ingrasci Crossroads Rolando Eastern Area
- Charles Maze Crossroad PAC













Walk Audit Results





- 54th Street to College Avenue South Side
- College Avenue to 69th Street North Side
- College Avenue to 69th Street South Side









Roadway Classifications, LOS & ADT Thresholds











Table 2-2 - Summary of Roadway Classifications, LOS & ADT Thresholds

LEGEND

XXX/XXX = curb to curb width (feet/right-of-way width (feet: based on the City of San Diego Street Design Manual

YY,YYY = Approximate recommended ADT based on the City of San Diego Street Design Manual



The volumes and the average daily level of service listed in this table are only intended as a general planning guideline

2. Levels of service are not applied to residential streets since their primary purpose is to serve abutting lots, not carry through traffic. Levels of service normally apply to roads carrying through traffic between major trip generators and attractors.

Source: City of San Diego's Traffic Impact Study Manual dated July 1998











Existing Roadway Segment Level of Service











Table 3-1 - E	xisting Roadway Segme	nt Level	of Service S	ummary			
Ct	# of LOSE Average V				Weekday	Weekday ADT	
Segment	Class	Lanes	Capacity	ADT	V/C	LOS	
University Avenue							
West of 54 th St	4-Lane Major Arterial	4	40,000	28,304	0.71	C	
54 th St to 58 th St	4-Lane Major Arterial	4	40,000	23,772	0.59	C	
58 th St to 60 th St	4-Lane Major Arterial	5	40,000	22,726	0.57	C	
60 th St to College Ave	4-Lane Major Arterial	5	40,000	21,587	0.54	C	
College Ave to Cartagena Dr	4-Lane Major Arterial	4	40,000	17,645	0.44	В	
Cartagena Dr to Rolando Blvd	4-Lane Major Arterial	4	40,000	17,059	0.43	В	
Rolando Blvd to Aragon Dr	4-Lane Major Arterial	4	40,000	15,824	0.40	В	
54th Street				28			
North of University Ave	4-Lane Major Arterial	4	40,000	24,757	0.62	C	
South of University Ave	4-Lane Major Arterial	4	40,000	17,834	0.45	В	
College Avenue							
North of University Ave	4-Lane Major Arterial	4	40,000	22,822	0.57	C	
South of University Ave	4-Lane Major Arterial	4	40,000	23,144	0.58	C	
Chollas Parkway							
South of University Ave	4-Lane Major Arterial	4	40,000	4,698	0.12	A	
Class = Roadway Classification; AD7	Γ = Average Daily Traffic; V/C	= Volume f	to LOS E Capa	city; $LOS = I$	Level of Se	rvice	





Accident History











Table 3-4 - Summary of Crash Data by Intersection							
	Number of Crashes that occurred between 1/1/2000 & 1/8/2011						
Intersection	Crashes that occurred at the Intersection	Crashes that occurred Midblock	Total				
University Ave @ 54th St	77	52	129*				
University Ave @ Chollas Pkwy	10	11	21				
University Ave @ 58th St	48	23	71				
University Ave @ University Square Dwy	12	9	21				
University Ave @ 60th St	18	12	30				
University Ave @ College Ave	75	16	91*				
University Ave @ Bonillo Dr	6	2	8				
University Ave @ Cartagena Dr	7	6	13				
University Ave @ Rolando Blvd	12	23	35				
University Ave @ Aragon Dr	12	4	16				
University Ave @ Alamo Dr	3	0	3				
University Ave @ Salvation Dwy	1	0	1				
University Ave @ 68th St	2	2	4				
University Ave @ 69th St	3	1	4				
54 th Street @ Chollas Pkwy	22	0	22				

Note: All crashes that occurred within 100' feet of the intersection approach/departure was considered to occur at the intersection







Existing Intersection Level of Service











Existing Intersection Level of Service Summary							
	T CC		AM Pea	ak Hour	PM Peak	Hour	
Intersection	Traffic Control	Critical Movement	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	
University Ave (E-W) @ 54th St (N-S)	Signalized	Intersection	25.3	С	32.1	С	
University Ave (E-W) @ Chollas Pkwy (N-S)	OWSC	WBL	25.2	D	40.6	Ε	
University Ave (E-W) @ 58th St (N-S)	Signalized	Intersection	20.5	В	22.2	С	
University Ave (E-W) @ University Square Dwy (N-S)	Signalized	Intersection	11.6	В	14.2	В	
University Ave (E-W) @ 60th St (N-S)	Signalized	Intersection	11.0	В	8.3	А	
University Ave (E-W) @ College Ave (N-S)	Signalized	Intersection	40.0	D	51.5	D	
University Ave (E-W) @ Rolando Blvd (N-S)	Signalized	Intersection	12.7	В	16.6	В	
University Ave (E-W) @ Aragon Dr (N-S)	Signalized	Intersection	9.4	А	8.7	А	
University Ave (E-W) @ Salvation Dwy (N-S)	Signalized	Intersection	6.4	А	5.7	А	

sec/veh = seconds of delay per vehicle; LOS = Level of Service; E-W = East-West Street; N-S = North-South Street

WB = WB Approach; WBL = Westbound Left; NB = Northbound Approach; SB = Southbound Approach

OWSC = One-Way Stop-Controlled

Err = Delay too high for software to calculate







Crash Data By Intersection











Table 3-4 - Su	mmary of Crash Data l	oy Intersection	
	Number of Crashes th	at occurred between 1/1/200	0 & 1/8/2011
Intersection	Crashes that occurred at the Intersection	Crashes that occurred Midblock	Total
University Ave @ 54th St	77	52	129*
University Ave @ Chollas Pkwy	10	11	21
University Ave @ 58th St	48	23	71
University Ave @ University Square Dwy	12	9	21
University Ave @ 60th St	18	12	30
University Ave @ College Ave	75	16	91*
University Ave @ Bonillo Dr	6	2	8
University Ave @ Cartagena Dr	7	6	13
University Ave @ Rolando Blvd	12	23	35
University Ave @ Aragon Dr	12	4	16
University Ave @ A lamo Dr	3	0	3
University Ave @ Salvation Dwy	.1	0	1
University Ave @ 68th St	2	2	4
University Ave @ 69th St	3	1	4

Note: All crashes that occurred within 100' feet of the intersection approach/departure was considered to occur at the intersection







Existing 85th Percentile Travel Speeds







Vehicular Traffic







Posted Speed Limit35 MPH East of Aragon

- 40 MPH West of Aragon













Existing Parking Demands











¢1		T	able 3-7	– Sum	mary o	f Exist	ing Par	king I	Demand	s			
						Nu	umber of Pa	rked Vel	hicles			· · · · · · · · · · · · · · · · · · ·	
Segment	Side of	8:0	MA 0	9:0	MA 0	12:0	00 PM	1:0	00 PM	3:0	0 PM	4:0	00PM
ocgnen	Street	Cars	Trucks	Cars	Trucks	Cars	Trucks	Cars	Trucks	Cars	Trucks	Cars	Trucks
	North	1	0	3	0	3	0	3	0	4	0	3	0
54th St to Chollas Pkwy	South	9	0	9	0	9	0	11	0	11	0	10	0
	Totak	10	0	12	0	12	0	14	0	15	0	13	0
All and the lot	North	1	0	0	0	1	0	0	0	1	0	1	0
Chollas Pkwy to 58th St	South	0	0	0	0	2	0	0	0	3	0	2	0
Sourse	Totak	1	0	0	0	3	0	0	0	4	0	3	0
a selection of	North	2	1	2	1	2	1	2	1	1	1	1	1
58th St to 60th St	South	1	0	0	0	1	0	1	0	1	0	1	0
1000 CON	Total:	3	1	2	1	3	1	3	1	2	1	2	1
	North	1	0	0	0	0	0	0	0	0	0	0	0
60th St to College Ave	South	1	0	1	0	1	0	1	0	1	0	0	0
0	Total:	2	0	1	0	1	0	1	0	1	0	0	0
and the states	North	2	0	1	0	2	0	2	0	3	0	2	0
College Ave to Cartagena Dr	South	7	0	8	0	7	0	8	0	8	0	6	0
Thursday	Total:	9	0	9	0	9	0	10	0	11	0	8	0
A 1	North	4	0	3	0	3	0	1	0	4	0	3	0
Cartagena Dr to Rolando Blvd	South	16	0	16	0	19	0	15	0	14	0	16	0
	Total:	20	0	19	0	22	0	16	0	18	0	19	0
Rolando Blvd to	North	0	0	0	0	0	0	0	0	0	0	0	0
Aragon Dr	South	7	0	5	0	5	0	7	0	5	0	5	0
	Total:	7	0	5	0	5	0	7	0	5	0	5	0
August Date	North	1	0	2	0	4	0	6	0	5	0	3	0
Aragon Dr to 69th St	South	18	0	16	0	16	0	16	0	15	0	16	0
	Total:	19	0	18	0	20	0	22	0	20	0	19	0
and the second second	North	4	1	3	1	4*	1	6	1	5	1	3	1
Peak Parking Demand	South	18	0	16	0	19*	0	16	0	15	0	16	0
- and the second	Total:	22	1	19	1	23*	1	22	1	20	1	19	1









	Existing	Ped	lestria	n Vo	lumes
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Tabl	e 3-8 - Summary	of Existing Ped	estrian Volumes		
Intersection	West Leg	North Leg	East Leg	South Leg	Total
	AM Peak Pe	riod (6:30 AM - 9:0	0 AM)		1.0
University Ave (E-W) @	60	70	139	110	379
54th St (N-S)	(University Ave)	(54th St)	(University Ave)	(54th St)	
University Ave (E-W) @	9	0	4	21	34
Chollas Pkwy (N-S)	(University Ave)	(Chollas Pkwy)	(University Ave)	(Chollas Pkwy)	
University Ave (E-W) @	22	19	37	17	95
58th St (N-S)	(University Ave)	(58th St)	(University Ave)	(58th St)	
University Ave (E-W) @	7	0	18	30	55
University Sq (N-S)	(University Ave)	(University Sq)	(University Ave)	(University Sq)	
University Ave (E-W) @	б	4	25	7	42
50th St (N-S)	(University Ave)	(60th St)	(University Ave)	(60th St)	
University Ave (E-W) @	30	36	35	47	148
College Ave (N-S)	(University Ave)	(College Ave)	(University Ave)	(College Ave)	
University Ave (E-W) @	1	17	4	30	52
Cartagena Dr (N-S)	(University Ave)	(Cartagena Dr)	(University Ave)	(Cartagena Dr)	
University Ave (E-W) @	11	7	29	7	54
Rolando Blvd (N-S)	(University Ave)	(Rolando Blvd)	(University Ave)	(Rolando Blvd)	
Jniversity Ave (E-W) @	4	8	3	23	38
Aragon Dr (N-S)	(University Ave)	(Aragon Dr)	(University Ave)	(Aragon Dr)	
University Ave (E-W) @	13	0	6	6	25
Salvation Dwy (N-S)	(University Ave)	(Salvation Dwy)	(University Ave)	(Salvation Dwy)	
Chollas Pkwy (E-W) @	0	3	14	3	20
54th St (N-S)	(Chollas Pkwy)	(54th St)	(Chollas Pkwy)	(54th St)	
Total along University Ave:	163	161	300	298	922





Existing Pedestrian Volumes











	PM Peak Pe	eriod (3:30 PM - 6:00	0 PM)		
University Ave (E-W) @	68	55	55	103	281
54th St (N-S)	(University Ave)	(54th St)	(University Ave)	(54th St)	
University Ave (E-W) @	13	0	14	55	82
Chollas Pkwy (N-S)	(University Ave)	(Chollas Pkwy)	(University Ave)	(Chollas Pkwy)	
University Ave (E-W) @	24	44	85	30	183
58th St (N-S)	(University Ave)	(58th St)	(University Ave)	(58th St)	
University Ave (E-W) @	12	0	69	66	147
University Sq (N-S)	(University Ave)	(University Sq)	(University Ave)	(University Sq)	
University Ave (E-W) @	14	4	44	23	85
50th St (N-S)	(University Ave)	(60th St)	(University Ave)	(60th St)	
University Ave (E-W) @	94	36	63	111	304
College Ave (N-S)	(University Ave)	(College Ave)	(University Ave)	(College Ave)	
University Ave (E-W) @	6	20	8	33	67
Cartagena Dr (N-S)	(University Ave)	(Cartagena Dr)	(University Ave)	(Cartagena Dr)	
University Ave (E-W) @	8	15	41	22	86
Rolando Blvd (N-S)	(University Ave)	(Rolando Blvd)	(University Ave)	(Rolando Blvd)	
University Ave (E-W) @	1	2	8	15	26
Aragon Dr (N-S)	(University Ave)	(Aragon Dr)	(University Ave)	(Aragon Dr)	
University Ave (E-W) @	16	0	0	7	23
Salvation Dwy (N-S)	(University Ave)	(Salvation Dwy)	(University Ave)	(Salvation Dwy)	
Chollas Pkwy (E-W) @	0	5	21	4	30
54th St (N-S)	(Chollas Pkwy)	(54th St)	(Chollas Pkwy)	(54th St)	
Total along University Ave:	256	176	387	465	1,284





Pedestrian Involved Crashed Along University Ave. Corridor









Table 3-12 - Pedestrian Involved Crashes Along University Avenue Corridor (1/1/2000-1/8/2011)					
Intersection	Number of Crashes				
University Ave @ 54th St	16				
University Ave @ Chollas Pkwy	2				
University Ave @ 58th St	10				
University Ave @ University Square Dwy	4				
University Ave @ 60th St	1				
University Ave @ College Ave	5				
University Ave @ Bonillo Dr	0				
University Ave @ Cartagena Dr	2				
University Ave @ Rolando Blvd	0				
University Ave @ Aragon Dr	0				
University Ave @ Alamo Dr	0				
University Ave @ Salvation Dwy	0				
University Ave @ 68th St	0				
University Ave @ 69th St	0				
Total:	40				





Existing Bicycle Volumes











Tal	ole 3–13 – Summa	ary of Existing B	icycle Volumes	-	
Intersection	West Leg	North Leg	East Leg	South Leg	Total
	AM Peak Pe	riod (6:30 AM - 9:00	0 AM)		-
University Ave (E-W) @	10	11	17	14	52
54th St (N-S)	(University Ave)	(54th St)	(University Ave)	(54th St)	
University Ave (E-W) @	1	16	0	12	29
Chollas Pkwy (N-S)	(University Ave)	(Chollas Pkwy)	(University Ave)	(Chollas Pkwy)	
University Ave (E-W) @	2	11	2	5	20
58th St (N-S)	(University Ave)	(58th St)	(University Ave)	(58th St)	
University Ave (E-W) @	3	7	0	6	16
University Sq (N-S)	(University Ave)	(University Sq)	(University Ave)	(University Sq)	
University Ave (E-W) @	1	10	1	6	18
50th St (N-S)	(University Ave)	(60th St)	(University Ave)	(60th St)	
University Ave (E-W) @	5	9	1	10	25
College Ave (N-S)	(University Ave)	(College Ave)	(University Ave)	(College Ave)	
University Ave (E-W) @	9	15	10	10	44
Cartagena Dr (N-S)	(University Ave)	(Cartagena Dr)	(University Ave)	(Cartagena Dr)	
University Ave (E-W) @	1	9	1	5	16
Rolando Blvd (N-S)	(University Ave)	(Rolando Blvd)	(University Ave)	(Rolando Blvd)	
University Ave (E-W) @	5	13	2	2	22
Aragon Dr (N-S)	(University Ave)	(Aragon Dr)	(University Ave)	(Aragon Dr)	
University Ave (E-W) @	2	8	1	2	13
Salvation Dwy (N-S)	(University Ave)	(Salvation Dwy)	(University Ave)	(Salvation Dwy)	
Chollas Pkwy (E-W) @	7	2	10	0	19
54th St (N-S)	(Chollas Pkwy)	(54th St)	(Chollas Pkwy)	(54th St)	
Total along University Ave:	39	109	35	72	255





Existing Bicycle Volumes











	PM Peak Pe	eriod (3:30 PM - 6:00	0 PM)		
University Ave (E-W) @	20	24	22	21	87
54th St (N-S)	(University Ave)	(54th St)	(University Ave)	(54th St)	
University Ave (E-W) @	0	27	0	26	53
Chollas Pkwy (N-S)	(University Ave)	(Chollas Pkwy)	(University Ave)	(Chollas Pkwy)	
University Ave (E-W) @	6	7	2	4	19
58th St (N-S)	(University Ave)	(58th St)	(University Ave)	(58th St)	
University Ave (E-W) @	6	10	0	11	27
University Sq (N-S)	(University Ave)	(University Sq)	(University Ave)	(University Sq)	
University Ave (E-W) @	1	8	1	11	21
50th St (N-S)	(University Ave)	(60th St)	(University Ave)	(60th St)	
University Ave (E-W) @	5	13	3	9	30
College Ave (N-S)	(University Ave)	(College Ave)	(University Ave)	(College Ave)	
University Ave (E-W) @	8	13	8	11	40
Cartagena Dr (N-S)	(University Ave)	(Cartagena Dr)	(University Ave)	(Cartagena Dr)	
University Ave (E-W) @	5	14	6	8	33
Rolando Blvd (N-S)	(University Ave)	(Rolando Blvd)	(University Ave)	(Rolando Blvd)	
University Ave (E-W) @	2	13	5	6	26
Aragon Dr (N-S)	(University Ave)	(Aragon Dr)	(University Ave)	(Aragon Dr)	
University Ave (E-W) @	1	10	1	6	18
Salvation Dwy (N-S)	(University Ave)	(Salvation Dwy)	(University Ave)	(Salvation Dwy)	
Chollas Pkwy (E-W) @	4	5	8	6	23
54th St (N-S)	(Chollas Pkwy)	(54th St)	(Chollas Pkwy)	(54th St)	
Total along University Ave:	54	139	48	113	354















Bicycle Involved Crashes Along
University Ave. Corridor

Intersection	Number of Crashes				
University Ave @ 54th St	5				
University Ave @ Chollas Pkwy	0				
University Ave @ 58th St	1				
University Ave @ University Square Dwy	1				
University Ave @ 60th St	2				
University Ave @ College Ave	3				
University Ave @ Bonillo Dr	1				
University Ave @ Cartagena Dr	0				
University Ave @ Rolando Blvd	1				
University Ave @ Aragon Dr	2				
University Ave @ Alamo Dr	1				
University Ave @ Salvation Dwy	0				
University Ave @ 68th St	0				
University Ave @ 69th St	0				
Total:	17				





Existing Amenities at Each Transit Stop Along University Ave Corridor











Existing Bus Stop	Direction	Ons	Offs	Total Trip Ends	Shelter	Bench	Lighting	Trash	Concrete Pad	Stop Location on Block	Route(s) Served
1E 54 th St	East	220	110	330		X	X	X		FAR	7/10
1W 54 th St	West	294	111	406	x	X		x	X	NEAR	7/10
2E University Ave/ 54 th St (Sears)	East	25	25	50	X	x	x	x		MID	7
2W Chollas Pkwy	West	17	9	26		X	97 98			MID	7
3E 58 th St	East	41	132	173		X			x	FAR	7
3W 58th St	West	107	33	140						FAR	7
4E Univ. Sq	East	40	109	148	х	x		x		FAR	7
4W Univ. Sq	West	202	39	241		x	х	x		NEAR	7
5E University Ave/ 5975	East	22	122	144	X	x		X		MID	7/10
5W 60 th St	West	60	12	72						FAR	7/10
6E 60 th St	East	2	50	52		х				FAR	7
6W College Ave	West	235	79	314	x	x		x		NEAR	7
7E College Ave	East	3	173	177				2		NEAR	10
8E College Ave	East	69	160	229		X		X	X	FAR	7
7W Cartagena Dr	West	23	8	31		X				NEAR	7
9E Cartagena Dr	East	4		4			X			FAR	7
10E Bonillo Dr	East	10	35	45		X		x		FAR	7
8W Rolando Blvd	West	27	14	40		X		X		FAR	7
11E Rolando Blvd	East	8	20	28		X	X			MID	7
9W Aragon Dr	West	35	13	48		X		x		NEAR	7
12E Aragon Dr	East	6	37	43	x	X	X	x	X	FAR	7
10W Salvation Dwy	West	27	9	36		x		x		NEAR	7
13E Salvation Dwy	East	5	16	20	X	X		X	X	FAR	7
11 W 68 th St	West	69	22	91	X	x		x		NEAR	7
12W 69 th St	West	68	4	73	X	X		x	X	FAR	7
14E 69 th St	East	53	149	202	X	x	x	x	x	NEAR	7





University Ave. Corridor Daily Ridership











	Table 3-16 - University Avenue Corridor Daily Ridership						
Route	Direction of Travel	Boardings	Alightings	Trip Ends	Percent of Corridor Total		
7	Eastbound	373	889	1,262	39.5		
/	Westbound		343	1,334	41.8		
	Route 7 Total	1,364	1,232	2,596	81.3		
10	Eastbound	44	385	429	13.4		
10	10 Westbound		20	170	5.3		
	Route 10 Total	194	405	599	18.7		
	Corridor Total:	1,558	1,637	3,195	100		







Proposed Conditions











	1			Exis	ting		Future	(2030)		
Intersection	Traffic	Critical	AM Peak	Hour	PM Peak	Hour	AM Peak	Hour	PM Peak	Hour
The sector.	Control	Mvt	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS	Delay (sec/veh)	LOS
University Ave (E-W) @ 54th St (N-S)	Sig.	Int,	25.3	C	32,1	Ċ.	37.9	D	39,3	D
University Ave (E-W) @ Chollas Pkwy (N-S)	OWSC	WBL,	25.2	D	40.6	E	33.3	D	221.3	F
University Ave (E-W) @ 58th St (N-S)	Sig.	Int.	20,5	C	22,2	Ċ	26,2	C	20,4	c
University Ave (E-W) @ University Sq (N-S)	Sig	Int,	11,6	В	14.2	В	8.0	A	20.6	С
University Ave (E-W) @ 60th St (N-S)	Sig.	Int.	11.0	В	8.3	A	7.6	A	6.0	A
University Ave (E-W) @ College Ave (N-S)	Sig.	Int.	40.0	D	51.5	D	52.5	D	77.7	E
University Ave (E-W) @ Rolando Blvd (N-S)	Sig	Ini,	12.7	В	16.6	В	16.6	в	20.0	C
University Ave (E-W) @ Aragon Dr (N-S)	Sig.	Int.	9.4	A	8.7	A	10.8	В	11.5	В
University Ave (E-W) @ Salvation Dwy (N-S)	Sig.	Int.	б.4	A.	5.7	Α	6.0	A	6.3	A
Chollas Pkwy (E-W) @ 54th St (N-S)	OWSC	WB	35.5	E	127.8	F	182.0	F	660.9	F

sec/veh = seconds of delay per vehicle; LOS = Level of Service;

E-W = East-West Street, N-S = North-South Street, Int = Intersection

WB = Westbound Approach; WBL = Westbound Left Sig. = Signalized; OWSC = One-Way Stop-Controlled







Proposed Conditions









			Existing Lane Configurations				Alternative A					Altern	ative B	Alternative C				
Intersection Traffic Contro	Traffic	Critical Myt	AM Peak		PM Peak		AM Peak		PM Peak		AM Peak		PM Peak		AM Peak		PM Peak	
	Souger	AVEAU.	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
		1				Exis	ting Tra	fic Vo	lumes									
University Ave (E-W) @ 54th St (N-S)	Sig.	Int,	25.3	C	32.1	C	28.6	С	36.6	D	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
University Ave (E-W) @ 58th St (N-S)	Sig.	Int.	20.5	с	22.2	С	21.0	С	25.2	C	17.0	В	21.0	с	17,1	в	19.8	В
Y STATE				Existin	g Traffi	ic Volu	nes Wit	h Delet	ion of C	hollas]	Parkway	()						
University Ave (E-W) @ 54th St (N-S)	Sig	Int.	N/A	N/A	N/A	N/A	29.3	с	53.3	D	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
University Ave (E-W) @ 58th St (N-S)	Sig.	Int,	N/A	N/A	N/A	N/A	21.0	C	24,8	C	17.0	В	20,8	C	17.1	В	20.1	C
the strength of the	1.					20	30 Traff	ic Volu	imes			-		-	1.1.1.1	1		
University Ave (E-W) @ 54th St (N-S)	Sig.	Int.	37,9	D	39.3	D	31.0	С	43.5	D	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
University Ave (E-W) @ 58th St (N-S)	Sig.	Int.	26.2	С	20.4	C	27.1	с	25.1	с	21.7	с	16.7	В	21.4	C	17.3	В
University Ave (E-W) @ College Ave (N-S)	Sig.	Int.	52.5	D	77.7	E	43.5	D	54.7	D	37.9	D	45.6	D	N/A	N/A	N/A	N/A
				2030	Traffic	Volum	es With	Deletio	n of Ch	ollas Pa	irkway							
University Ave (E-W) @ 54th St (N-S)	Sig.	Int.	N/A	N/A	N/A	N/A	36.2	D	57.8	E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
University Ave (E-W) @ 58th St (N-S)	Sig	Int.	N/A	N/A	N/A	N/A	27.1	C	34.6	c	21.7	с	25.2	С	21.4	С	25.2	С
University Ave (E-W) @ College Ave (N-S)	Sig.	Int.	N/A	N/A	N/A	N/A	43.5	D	54.7	D	37.9	D	45,6	D	N/A	N/A	N/A	N/A

Table 2 - Summary of Intersections Levels of Service for Alternative Channelization Concepts





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Proposed Conditions











C	<u> </u>	# of	LOSE	Average Weekday ADT				
Segment	Class	Lanes	Capacity	ADT	V/C	LOS		
University Avenue			1.05-61					
West of 54 th St	4-Lane Major Arterial	4	40,000	25,000	0.63	C		
54^{th} St to 58^{th} St	4-Lane Major Arterial	4	40,000	27,000	0.68	С		
58^{th} St to 60^{th} St	4-Lane Major Arterial	5	40,000	25,000	0.63	С		
60 th St to College Ave	50 th St to College Ave 4-Lane Major Arterial				0.58	С		
College Ave to Cartagena Dr	ollege Ave to Cartagena Dr 4-Lane Major Arterial				0.63	C		
Cartagena Dr to Rolando Blvd	4-Lane Major Arterial	4	40,000	26,000	0.65	С		
Rolando Blvd to Aragon Dr	4-Lane Major Arterial	4	40,000	20,000	0.50	В		
54th Street			2027		1420			
North of University Ave	4-Lane Major Arterial	4	40,000	23,000	0.58	С		
South of University Ave	4-Lane Major Arterial	4	40,000	23,000	0.58	С		
College Avenue		Acres and a	1.20 - 20 - 2	1000		1000		
North of University Ave	4-Lane Major Arterial	4	40,000	23,000	0.58	C		
South of University Ave	4-Lane Major Arterial	4	40,000	23,000	0.73	C		
Chollas Parkway		1			1200			
South of University Ave	4-Lane Major Arterial	4	40,000	5,000	0.13	A		





Overview of the Corridor











Mobility

- -Vehicular
- Pedestrian
- Bicycle
- Transit
- Parking









Vehicular Traffic











Class - 4 Lane Major Arterial

 -54^{th} to 60^{th} = 4 Lanes + parking

- 60th το College = 5 Lanes + parking
- College to 69th Street = 4 Lanes + parking





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 fl. (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 yard Commercial-no front yards; Regional Commercial; Commercial Office; Visitor Commer 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 lances 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 lances would not be warranked, the standard outb-to-outb 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	t i	118 ft. (35.6 m) - 130 ft. (39.0 m)				
Design ADT	LOS C LOS D	30,000 35,000				
Design Speed		45 mph (70 km/h)				
Width (includes bike ft. (4.8 m) raised cente Curb-to-Curb ^{1,2}		90 ft. (27.0 m)				
Maximum Grade		7%				
Minimum Curve Rad	lius	1,090 fi. (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 spacid, 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-to-curb with may be permitted.

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







Four Lane Urban Collector with Two Way Left Turn Lane









Width, Right-of-Way	110 ft. (33.2 m) - 122 ft. (36.6 m)
Design ADT LOS C LOS D	20,000 25,000
Design Speed	35 mph (60 km/h)
Width (includes bike lanes), Curb- to-Curb	82 ft. (24.6 m)
Maximum Grade ¹	8%
Minimum Curve Radius	610 ft. (220 m) with no superelevation 470 ft. (170 m) with 2% (min.) superelevation 380 ft. (135 m) with 6% (max.) superelevation
Land Use Parkway	Single Dwelling Residential-no front yards; Low Density Multiple Dwelling Residential-no front yards; Open Space-Park; Industrial; Medium-to-Very High Density Multiple Dwelling Residential-no front yards U-4 (a)
Land Use Parkway Options	Neighborhood Commercial; Community Commercial; Regional Commercial; Commercial Office; Visitor Commercial; School; Church; Public Building U-5 (a,b); U-6 (a,b)
Land Use Parkway Options	Pedestrian-Oriented Commercial Retail; Urban Village Commercial Retail U-5 (a,b); U-6 (a,b)

median is installed, access provisions across the median for emergency vehicles should be provided at 200 ft. (90 m) intervals. NOTE: Two-way left-turn lane shall be considered only for streets of limited length where intersections are closely spaced or where there is extensive driveway access. For all other comfilions, raised center medians should be considered.

¹ Whenever topographic constraints would cause excessive slope heights or create unmitigable landform impacts, the maximum street grade may exceed 8% for no-fronting property, up to a maximum of 10% for streets with less than 10,000 ADT, subject to approval of the City Engineer.







Pedestrian Mobility



- Sidewalks
- Accessible Sidewalks
- Curb Ramps
- Cross Walks
- Limited Distance Across Intersections
- Limited Vehicular Access
- Landscaping
- Pop-Outs

















Pedestrian Mobility



















Pedestrian Mobility





















Bicycle Mobility











- Dedicated Bike Lanes 6 feet minimum
- Share the Road with vehicles with transit
- Connectivity to Existing Bike Routes
- Bike Racks maintenance not covered
- Bike racks on all buses
- Bicycle Demand







Transit Mobility – Route 10 Express Route 7 Local

- Heavily Traveled Commuter Route
- Bike Racks on Buses
- Accessible Routes to Bus Stops
- Enlarge and Enhance Waiting Area
- Shelters and Furniture Non Standard will not be maintained by MTS
- Relocate stations
 - Sight Distance
 - Area
 - Accessibility







Transit Mobility – Route 10 Express Route 7 Local











Review Typical Design Solutions











- -54th Street to 58th Street
- -58th Street to College Avenue
- -College Avenue to Aragon Drive
- –Aragon Drive to 69th Street







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





Community Meeting Schedule











- Community Workshops
 - 1. Tuesday, March 8, 2011
 - 2. Thursday, April 21, 2011
 - 3. Thursday, May 5, 2011
- Working Group Meetings
 1. Tuesday, February 22, 2011
 - 2. Tuesday, March 22, 2011
 - 3. Tuesday, April 26, 2011
 - 4. Tuesday, May 24, 2011
- Community Planning Group Meetings
 - 1. Tuesday, May 10, 2011 Preliminary Alternatives
 - 2. Tuesday, June 14, 2011 Present Report









Site Photos













