Antelope Valley Transit Authority's Bus Stop Maintenance Program





Proposal to Provide Services







Proposal to Provide Services Lancaster Bus Stop Maintenance Program

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Section I Project Summary/ Overview

The Antelope Valley Transit Authority (AVTA) is pleased to submit this proposal to provide

services to support the City of Lancaster and its vision of sustaining a beautiful city by

improving the preservation of the bus stops through implementing a Bus Stop Maintenance

Program. The Bus Stop Maintenance Program will provide washing, steam cleaning, trash

removal, graffiti removal, and overall maintenance for AVTA bus stops in the City's territory.

We have partnered with a jurisdiction within the Antelope Valley and the program has proven

to be effective. The total estimated cost for fiscal year 2016/2017 is \$75,383.

We look forward to working with the City of Lancaster and supporting your efforts to preserve

your bus stops. We are confident that we can meet the challenges ahead, and stand ready to

partner with you in delivering an effective Bus Stop Maintenance Program.

If you have questions about this proposal, contact me at your convenience by email at

<u>lengel@avta.com</u> or by phone at (661) 729-2206. We will be in touch with you next week to

arrange a follow-up conversation on the proposal.

Thank you for your consideration,

Len Engel

Executive Director

Antelope Valley Transit Authority



Section II Scope of Work

General Outline:

1. Project Scope

The work shall include all activities necessary to provide maintenance services to the City of Lancaster in a safe, effective, and efficient manner.

2. Technical Requirements

- A. Maintenance Service Monday Friday:
 - a. Monday and Friday
 - Maintain and inspect all AVTA Lancaster bus routes with a two man maintenance team:
 - 1. Trash disposal
 - 2. Replace trash can liners
 - Document defects; if a defect or unsafe environment is detected, the crew will perform normal week day service and cleaning

b. Tuesday – Thursday

- Maintenance and inspect overall site with a two man maintenance team:
 - 1. Graffiti inspection
 - 2. Paint touch-up
 - Pressure wash all amenities and grounds to a minimum of 6' of surrounding bus stop area including the curb and gutter; as needed
 - 4. Remove extracted contaminated soap/water solution and dispose at AVTA facility
 - 5. Trash disposal
 - 6. Replace trash can liners



- B. Lancaster City Park (LCP) Transfer Center Quarterly Maintenance:
 - 1. Paint touch-up
 - 2. Remove extracted contaminated soap/water solution and dispose at AVTA facility
 - 3. Trash disposal
 - 4. Replace trash can liners
 - 5. Cleanliness Pressure wash all amenities and grounds within the transfer area including curb; gutter as needed.
 - Transport AVTA mobile scrubbing machine to LCP to clean bus parking area where leakage occurs to ensure area is free of grease and oil.
 - 7. Document/Report Document and report all defects on AVTA *Bus Stop Work Report*.

C. Inspection includes:

- 1. Benches
- 2. Curb paint
- 3. Defects/repairs
- 4. Electronic signage
- 5. Graffiti; removal as needed
- 6. Information pod
- 7. Lighting
- 8. Paint touch-up
- 9. Poles
- 10. Shelters
- 11. Trash receptacles



Section III Cost Estimate

1. 5 Year Proposal – See Exhibit A



Exhibit A

5 Year Proposal

AVTA Bus Stop Maintenance 5 Year Proposal - City of Lancaster Bus Stop Maintenance Program

	AVIA bus Stop Maintenar		rating Labor Co	·		og.a			
Bus Stop Field Service Personnel	Employees Name	Annual Hours	Yearly Hours	Straight Hours	Hourly Rate	Compensation	Fringe Benefits	Sub-total	
·	, ,		<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>	<u> </u>	<u>'</u>	39.00%	<u> </u>	
	Field Service Supervisor	25%	2080	520	\$ 31.14	\$ 16,193	\$ 6,315	22,508	
	Field Service Tech.	100%	2080	2080	\$ 17.59			50,856	
	Field Service Tech.	100%	2080	2080	\$ 17.59	\$ 36,587	\$ 14,269		
				4.500				124,220	
	Average straight hours per year			1,560 \$ 79.63					
	Straight cost per Hour			\$ 79.63					
	Labor Costs per Year					FT	A 50% Reimbursement	62,110 \$	124,220 No Match
		Capita	I Equipment Co	sts					
Bus Stop Field Equipment	Description	Quantity					Costs	Sub-total	
	Truck	1		•	•		66,000	66,000	
	Pressure Washer	1					9,000	9,000	
	Total Equipment Costs							75,000	
	FTA 80% Reimbursement on Equipment						20% Local Match	15,000	
	Depreciation Schedule in Years	5							
	Depreciable cost per year							\$3,000 \$	15,000 No Match
	,		perating Costs						
Bus Stop Field Operating Costs	Description	Quantity					Costs	Sub-total	
	Operating Cost (fuel & maintenance)	15,000						15,000	
	Operating Cost (ruer & maintenance)	15,000						15,000	
	Total Operating cost per year							18,000	18,000 No Match
								<u> </u>	
	Average Straight Hours per Year	1,560							
	Operating Cost per Hour	\$11.54	_						
	Total Cost per Hour	\$91.17							
	Average straight costs per year	\$142,220.41					Local Match	\$80,110 \$	157,220 No Match
	Total Cost per Year						Local Match	\$80,110 \$	137,220 INO IVIATOR
	1	FY2016/17	FY2017/18	FY2018/19	FY2019/20	FY2020/21	7		
	AVTA MOU Proposed 5 Year Amounts	\$75,383	\$77,268	\$79,200	\$81,180	\$83,210			



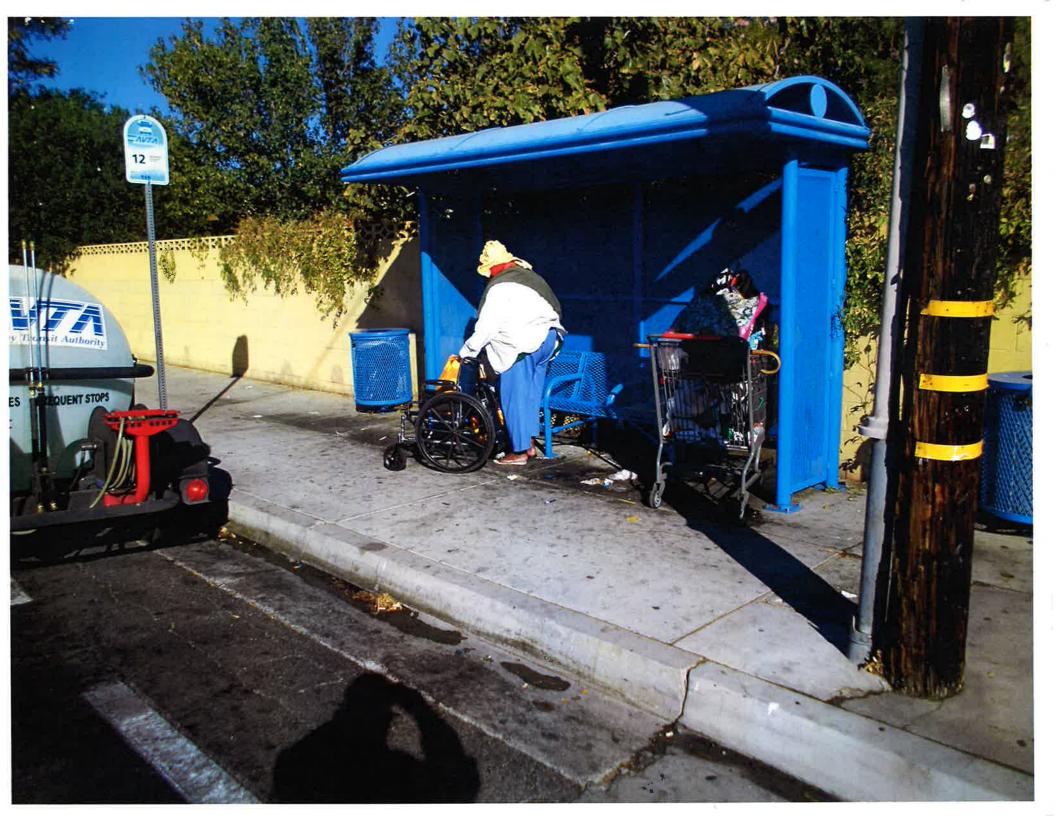
Appendix 1

Before and After Images



Image 1: Before/After

Location: Challenger Way & East Avenue J



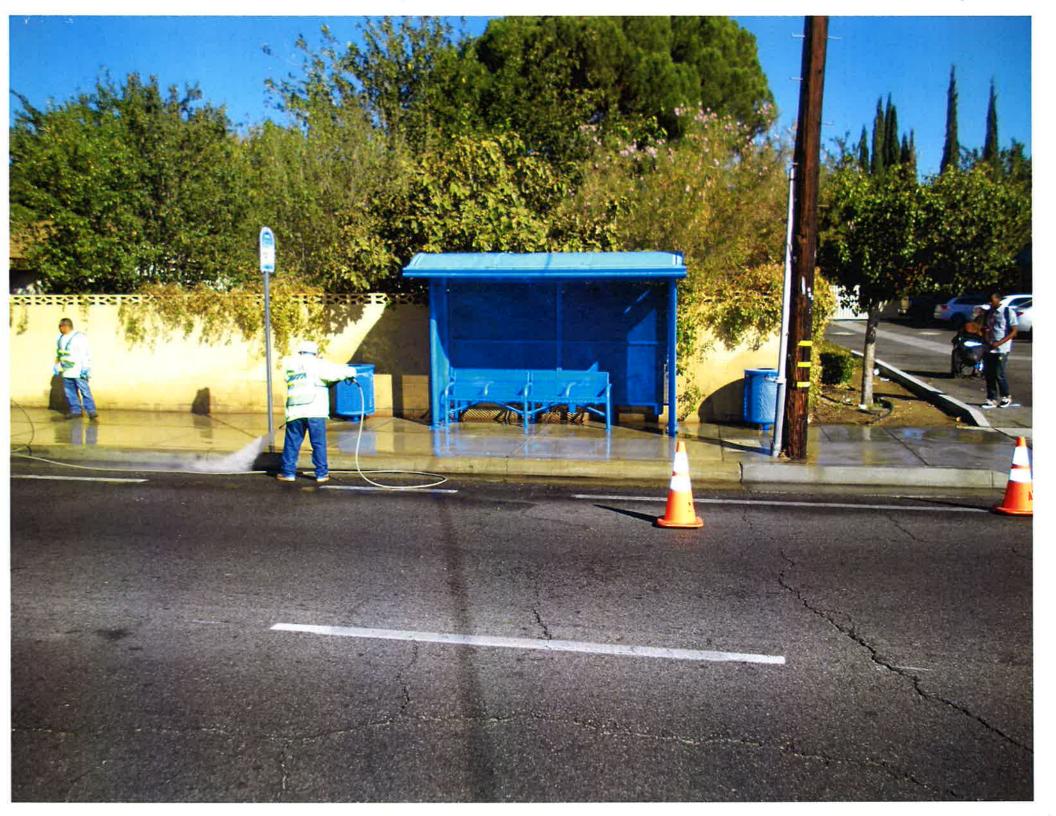






Image 2: Before/After

Location: Fern Avenue & West Avenue I







Appendix 2

Memorandum of Understanding (MOU)

BUS STOP MAINTENANCE MEMORANDUM OF UNDERSTANDING

This Bus Stop Maintenance Memorandum of Understanding ("MOU") is dated May 23, 2016, and is entered by and between the Antelope Valley Transit Authority ("AVTA") and the City of Lancaster ("City").

RECITALS

- A. AVTA is a joint powers authority of which City is a member jurisdiction.
- B. The parties desire to memorialize the terms under which AVTA will provide washing, steam cleaning, trash removal, and graffiti removal (collectively, "Maintenance Services") for AVTA vehicle bus stops in City's territory ("Bus Stops").

The parties, therefore, agree as follows:

Section 1. Maintenance Services. AVTA will provide the Maintenance Services for the Bus Stops to the extent needed. Bus Stops require Maintenance Services a minimum of twice per week (more frequently on busier routes) to ensure adequate cleanliness is maintained. During the summer months, more frequent service may be necessary. AVTA will provide a contact phone number as a hotline for maintenance issues and post the number at all Bus Stops.

<u>Section 2.</u> Term. The term of this MOU shall be five (5) years unless earlier terminated. Either party may terminate this MOU for convenience upon thirty (30) days written notice to the other party.

Section 3. Compensation.

3.1 Amount. City agrees to compensate AVTA for the Maintenance Services, and AVTA agrees to accept in full satisfaction for the Maintenance Services, annual payment as follows:

Fiscal Year 2016/2017	\$75,383
Fiscal Year 2017/2018	\$77,268
Fiscal Year 2018/2019	\$79,200
Fiscal Year 2019/2020	\$81,180
Fiscal Year 2020/2021	\$83,210

3.2 Payment. AVTA shall submit quarterly invoices to City for the Maintenance Services. City shall remit payment within thirty (30) days after receipt of each invoice.

Section 4. Indemnification.

- 4.1 AVTA Obligation. AVTA shall indemnify City and its officers, employees, agents and elected and appointed boards for any loss, claim, demand, cause of action, cost, expense, damage, obligation or liability which arises out of or is connected with performing the Maintenance Services by AVTA or its contractors or subcontractors, including any acts or omissions, willful misconduct or negligent conduct, whether active or passive, by AVTA, its contractors or subcontractors. At their own expense, AVTA and, as applicable, any contractors or subcontractors working on its behalf, shall defend any suit, claim or action against City founded upon such loss, claim, demand, cause of action. cost, expense, damage, obligation or liability. During the term of this MOU, AVTA and any contractors or subcontractors working on its behalf shall maintain at their sole cost Comprehensive General Liability Insurance applicable on an occurrence basis, with limits no less than five million dollars (\$5,000,000.00) per person/occurrence and in the aggregate. AVTA and any contractors or subcontractors working on its behalf shall name City, its officers, employees, and elected and appointed boards as additional insureds under the policy.
- 4.2 City Obligation. City shall indemnify, defend and hold harmless AVTA and its Directors and employees from any claim, demand, damage, liability, loss, cost or expense for any damage whatsoever (including death or injury to any person and injury to any property) resulting from willful misconduct, negligent acts, errors or omissions of City or City's officers, employees, agents or subcontractors for the condition of the Bus Stops, except as it relates to Maintenance Services.
- 4.3 Survival. The parties' covenants under this Section shall survive the termination of this MOU.

<u>Section 5.</u> Notices. Any notice to be given by the parties hereto will be by certified mail, return receipt requested, and will be as follows:

If to the City:

Mark Bozigian
City Manager
City of Lancaster
44933 Fern Avenue
Lancaster, California 93534

Jocelyn Corbett, Esq. Assistant City Attorney City of Lancaster 44933 Fern Avenue Lancaster, California 93534

If to AVTA:

Len Engel
Executive Director
Antelope Valley Transit Authority
42210 6th Street West
Lancaster, CA 93534

<u>Section 6. Acknowledgment</u>. The parties acknowledge that neither the execution of this MOU nor AVTA's performance of the Maintenance Services is intended to result in, or shall be construed as resulting in, a transfer to AVTA of the ownership or control of the Bus Stops.

<u>Section 7.</u> Entire Agreement. This MOU represents the entire integrated agreement between the parties regarding Maintenance Services. This MOU supersedes all prior negotiations, representations or agreements, either written or oral regarding Maintenance Services. This MOU may be amended only by written instrument signed by the parties.

IN WITNESS WHEREOF, the governing bodies of the parties have authorized this MOU to be executed.

"AVTA"	"CITY"
Antelope Valley Transit Authority	City of Lancaster
By: Len Engel, Executive Director	By: Mark Bozigian, City Manager
Len Engel, Executive Director	Mark Bozigian, City Manager
	ATTEST:
By:	By:
Allison Burns, General Counsel	Britt Avrit, CMC, City Clerk
	40000VED 40 TO FORM
	APPROVED AS TO FORM:
	Bv.
	By:



Appendix 3

Bus Stop Inventory

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
	Avenue J & 10th Street West							
Doute 13W		NIVA/	TIME DOINT	FS	20	'		1 2
Route 12W	(Wallis Optical)	NW	TIME POINT	F5	20	1	1	2
		'	1	!	1	'		1
Route 12W	Avenue K & 30th Street West	SE	TIME POINT	FS	21	2	3	2
		'	1	!	1	'		1
Route 11W	Avenue I & 40th Street East	NW	TIME POINT	FS	25	<u> </u> '		1
								1
Route 4S	20th Street East & Lancaster Blvd.	SW	TIME POINT	FS	29	'		1
		+		-				1
	30th Street West & Avenue K		1	!		'		1
Route 12E	(AVC)	NE	TIME POINT	FS	30	2	3	2
		'	1	!	1	'		1
Route 1S, 4S. 7S 11E, 11W	Jackman Street & Fern Avenue	NE	STOP	NS	31	1	1	2
Route 11E	Avenue I & 40th Street East	SW	TIME POINT	NS	33	'		1
		 		1				
	Avenue J & 10th Street West	'	1 '	'	1	'		1 _
Route 12E	(Insurance Associates)	SE	TIME POINT	FS	36	1	1	2
		'	1	!	1			1
Route 11W	Avenue I & 10th Street West	NW	TIME POINT	FS	40	1	1	2
			<u> </u>			'		1
Route 11W	15th Stroot West & Avenue 1	SW	TIME POINT	FS	41	1 1		2
Route 11W	15th Street West & Avenue J	SW	TIME POINT	FS	41	1	1	2

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 7N	60th Street West & Avenue L-8	NE	STOP	NS	45			
Route 4N	Avenue K & 5th Street East	SE	STOP	FS	46			
2	45.4.6.	N.E.	TIM 45 DOME	.45	47			
Route 11E	15th Street West & Avenue J	NE	TIME POINT	MB	47			
	60th Street West & Avenue I							
Route 7N	(High Desert Hospital)	NE	TIME POINT	MB	48			
Route 1N, 11E	Avenue I & 10th Street West	SE	STOP	FS	50	1	1	2
Route 7S	10th Street West & Avenue I	NE	TIME POINT	FS	51			
	60th Street West & Avenue I							
Route 7S	(High Desert Hospital)	NE	TIME POINT	МВ	52			
Route 7S	Avenue L-8 & 60th Street West	SE	STOP	FS	53			
Route 11E	Lancaster Blvd. & 40th Street East	NW	STOP	FS	68			
Route 11E	Lancaster Blvd. & 33rd Street East	NW	STOP	FS	69			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 11E	30th Street East & East Newgrove St.	SW	STOP	FS	72			
Route 5E	Avenue M & 63rd Street West	SE	STOP	FS	74			
Route 5E	Avenue M & 60th Street West	SE	STOP	FS	75			
Route 11E	30th Street East & Avenue J	NW	STOP	NS	77			
Route 11E, LLA-W	Avenue J & 27th Street East	NW	STOP	FS	78	0	1	2
Route 11E, LLA-W	Avenue J & 25th Street East	NW	STOP	FS	82			
Route 5E	15th Street West & Kaiser Med Offic	NE	STOP	МВ	105	1	1	2
Route 1N	10th Street West & Avenue M-8	NE	STOP	FS	142			
Route 1N	10th Street West & Avenue M-4	NE	STOP	МВ	143			
Route 1N	10th Street West & Avenue M	NE	TIME POINT	FS	144	1	1	2

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 11E, LLA-W	Avenue J & 21st Street East	NW	STOP	FS	157			
Route 12W	Avenue J & 17th Street East	NW	STOP	FS	159	1	1	2
Route 12W	Avenue J & 15th Street East	NW	STOP	FS	160	1	1	2
Route 12W	Avenue J & Palm Vista	NW	STOP	FS	161			
Route 1N	10th Street West & Avenue L-12	NE	STOP	FS	162	1	1	2
Route 1N	10th Street West & Avenue L-10	NE	STOP	FS	163			
Route 1N, 4S	10th Street West & Avenue L-8	NE	STOP	FS	164	1	1	2
Route 1N, 4S	10th Street West & Avenue L-4	NE	STOP	MB	165			
Route 1N, 4S, LLA - W	10th Street West & Avenue L	NE	STOP	FS	166	1	1	2
Route 12W	Avenue J & Challenger Way	NW	STOP	FS	169	1	1	2

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 12W	Avenue J & Hanstead	NW	STOP	МВ	170			
Route 12W	Avenue J & 5th Street East	NW	STOP	FS	171	1	1	2
Route 12W	Avenue J & 3rd Street East	NW	STOP	FS	172	1	1	2
Route 12W	Avenue J & Division	NE	STOP	NS	173	1	1	2
Route 12W	Avenue J & Sierra Highway	NW	STOP	FS	174	1	1	2
Route 12W	Avenue J & Fig	NE	STOP	NS	176			
Route 12W	Avenue J & Lowtree	NE	STOP	NS	178			
Route 12W	Avenue J & 15th Street West	NW	STOP	FS	179	1	1	2
Route 12W	20th Street West & Avenue J	NE	STOP	FS	181	1	1	2
Route 12W	Avenue J & 17th Street West	NE	STOP	NS	182			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 5E	Avenue L & 45th Street West	SE	STOP	FS	230			
Route 5E	Avenue L & 42nd Street West	SE	STOP	FS	231			
Route 5E	Avenue L & 40th Street West	SE	STOP	FS	232	1	1	2
Route 5E	Avenue L & 37th Street West	SE	STOP	FS	233	0	1	2
Route 5E	Avenue L & 35th Street West	SW	STOP	NS	234			
Route 5E	Avenue L & 32nd Street West	SW	STOP	NS	235	0	1	2
Route 5E	Avenue L & 25th Street West	SE	STOP	FS	237			
Route 5E	Avenue L & 22nd Street West	SE	STOP	FS	238			
Route 5E	Avenue L & 20th Street West	SE	STOP	FS	239	0	1	2
Route 5E	15th Street West & Avenue L	NE	STOP	FS	240			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 5W	Avenue L & 17th Street West	NW	STOP	МВ	241	0	1	1
Route 5W	Avenue L & 27th Street West	NW	STOP	FS	242	1	2	1
Route 1N, 10N	10th Street West & Avenue K	NE	STOP	FS	245	1	1	2
Route 1N	10th Street West & Avenue J-12	NE	STOP	FS	246	1	1	2
Route 1N	10th Street West & Avenue J-8	SE	STOP	NS	247	1	1	2
Route 1N	10th Street West & Avenue J-4	NE	STOP	FS	248	1	1	2
Route 1N	10th Street West & Newgrove Ave	NE	STOP	FS	249	1	1	2
Route 1N	10th Street West & Lancaster Blvd.	NE	STOP	FS	250	1	1	2
Route 1S	10th Street West & Jackman Street	SW	STOP	FS	252	1	1	2
Route 1S	10th Street West & Lancaster Blvd.	SW	STOP	FS	253	1	1	2

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 1S	10th Street West & Newgrove Ave	SW	STOP	FS	254	1	1	2
Route 1S	10th Street West & Avenue J	SW	TIME POINT	FS	255	2	2	2
Route 1S	10th Street West & Avenue J-4	SW	STOP	FS	256	1	1	2
Route 1S	10th Street West & Avenue J-10	SW	STOP	МВ	257			
Route 1S	10th Street West & Avenue J-12	SW	STOP	FS	258	1	1	2
Route 1S, 10S, 11W	10th Street West & Avenue K	SW	STOP	FS	259	1	1	2
	10th Street West & Commerce							
Route 1S, 11W	Center Drive	SW	STOP	FS	260	1	1	2
Route 1S, 4N	10th Street West & Avenue L	SW	STOP	FS	262	1	1	2
Route 1S	10th Street West & Avenue L-9	SW	STOP	FS	263	0	1	2
Route 1S	10th Street West & Avenue L-12	SW	STOP	FS	264	1	1	2

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 1S	10th Street West & Avenue M	SW	TIME POINT	FS	265			
Route 1S	10th Street West & Avenue M-4	SW	STOP	FS	266			
Route 1S	10th Street West & Avenue M-8	SW	STOP	FS	267			
Route 1S	10th Street West & Avenue M-14	SW	STOP	FS	268			
Route 4N	Avenue L-8 & 10th Street West	SE	STOP	FS	307			
Route 4N	Avenue L-8 & 7th Street West	SE	STOP	FS	308			
Route 4N, 10S	42231 6th Street West	SW	TIME POINT	МВ	309			
Route 4N, 10S	6th Street West & W Avenue L-14	SW	STOP	MB	310	0	1	2
Route 4N	Avenue M & 4th Street West	SW	STOP	FS	311			
Route 4N	Business Center Parkway & Avenue I	NE	STOP	FS	312			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 4N	Business Center Parkway & Avenue I	NE	STOP	FS	313			
Route 4N, 4S	Avenue K-6 & Division Street	SE	STOP	FS	314			
Route 4N, 4S	Avenue K-6 w/o Gingham	SE	STOP	МВ	315	0	1	2
Route 4N, 4S	Avenue K-4 & Gingham Avenue	NW	TIME POINT	FS	316	0	1	2
Route 4N, 4S	Avenue K-4 & Copeland Circle	NE	STOP	NS	317	2	2	2
Route 4N	Avenue K & Stanridge Avenue	SE	STOP	FS	318			
Route 4N, LLA - E	Avenue K & Challenger Way	SE	STOP	FS	320	0	1	2
Route 4N, LLA - E	Avenue K & Carol Drive	SE	STOP	NS	321	0	1	2
Route 4N, LLA - E	Avenue K & 15th Street East	SE	STOP	FS	322	0	1	2
Route 4N, LLA - E	20th Street East & Avenue K	NE	STOP	FS	323			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 4N, LLA - E	20th Street East & Avenue J-8	SE	STOP	NS	324	0	1	2
Route 4N, LLA - E	20th Street East & Avenue J-4	NE	STOP	МВ	325	0	1	2
Route 4N	20th Street East & Avenue J	NE	STOP	FS	326	1	1	2
Route 4N	20th Street East & Nugent Street	SE	STOP	FS	327	0	1	2
Route 4N	Lancaster Blvd. & 20th Street East	NW	TIME POINT	FS	328	0	1	2
Route 4N	Lancaster Blvd. & 16th Street East	NW	STOP	MB	329	1	1	2
Route 4N	Lancaster Blvd. & 15th Street East	NW	STOP	FS	330			
Route 4N	Lancaster Blvd. & 13th Street East	NW	STOP	MB	331			
Route 4N	Lancaster Blvd. & Challenger Way	NW	STOP	FS	332			
Route 4N	Lancaster Blvd. & Andale Street	NW	STOP	FS	333			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 4N	Lancaster Blvd. & 5th Street East	NW	STOP	FS	334			
Route 4N	Lancaster Blvd. & 3rd Street East	NW	STOP	MB	335			
Route 4N	Division & Lancaster Blvd.	NE	TIME POINT	MB	336			
Route 4N, 11W	Lancaster Blvd. & Yucca Avenue	NE	STOP	NS	337	1	1	2
Route 4S, 11E	Lancaster Blvd. & Sierra Hwy	SE	TIME POINT	FS	342	1	1	2
Route 4S, 11E	Lancaster Blvd. & Yucca Avenue	SE	STOP	NS	343	1	1	2
Route 4S	Lancaster Blvd. & Division	SE	STOP	МВ	344			
Route 4S	Lancaster Blvd. & 3rd Street East	SE	STOP	FS	345			
Route 4S	Lancaster Blvd. & 5th Street East	SE	STOP	FS	346			
Route 4S	Lancaster Blvd. & Andale Street	SE	STOP	MB	347			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 4S	Lancaster Blvd. & Challenger Way	SE	STOP	FS	348			
Route 4S	Lancaster Blvd. & 13th Street East	SE	STOP	NS	349			
Route 4S	Lancaster Blvd. & 15th Street East	SE	STOP	FS	350			
Route 4S	20th Street East & Nugent Street	SW	STOP	MB	351	0	1	2
Route 4S, 11E, LLA - W	20th Street East & Avenue J	SW	STOP	FS	352	1	1	2
Route 4S, LLA - W	20th Street East & Avenue J-4	SW	STOP	NS	353	0	1	2
Route 4S, LLA - W	20th Street East & Avenue J-8	SW	STOP	FS	354	0	1	2
Route 4S, LLA - W	Avenue K & 17th Street East	NE	STOP	NS	356	0	1	2
Route 4S, LLA - W	Avenue K & 15th Street East	NW	STOP	FS	357	0	1	2
Route LLA - W	Avenue K & Yaffa Street	NW	STOP	FS	358	0	1	2

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 4S	Avenue K & Challenger Way	NW	STOP	NS	359	1	1	2
Route 4S	Avenue K & 7th Street East	NW	STOP	FS	360	0	1	2
Route 4S	Avenue K & 5th Street East	NW	STOP	FS	361			
Route 4S	Avenue K & Stanridge Avenue	NW	STOP	FS	362			
Route 4S	Division & Avenue K-4	NW	STOP	FS	363	0	1	2
Route 4S	Sierra Hwy & Avenue L	SW	STOP	FS	371			
Route 4S	Sierra Hwy & Avenue L-8	NW	STOP	NS	372			
Route 4S	Avenue M & Sierra Hwy	NW	STOP	FS	373			
Route 4S	Avenue M & 4th Street West	NW	STOP	FS	374	1	1	2
Route 4S. 10N	6th Street West & Avenue M	NE	STOP	FS	375			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID#	SHELTERS	BENCHES	TCANS
Route 4S, 10N	42210 6th Street West	AT	TIME POINT	AT	376	1	1	2
Route 4S	Avenue L-8 & 7th Street West	SW	STOP	FS	377			
Route 5E	Avenue L-12 & 65th Street West	SW	STOP	FS	386			
Route 5W	15th Street West & Avenue K-8	SW	STOP	FS	388	1	1	2
Route 5W	Avenue L & 15th Street West	NW	STOP	FS	389	0	1	1
Route 5W	Avenue L & 20th Street West	NW	STOP	FS	390	0	1	1
Route 5W	Avenue L & 22nd Street West	NW	STOP	FS	391			
Route 5W	Avenue L & 25th Street West	NW	STOP	FS	392			
Route 5W	Avenue L & 32nd Street West	NE	STOP	NS	393	0	1	2
Route 5W	Avenue L & 30th Street West (McDo	NW	TIME POINT	FS	394	1	1	2

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 5W	Avenue L & 35th Street West	NW	STOP	FS	395	0	1	2
Route 5W	Avenue L & 37th Street West	NW	STOP	FS	396	0	1	2
Route 5W	Avenue L & 40th Street West	NW	STOP	FS	397	1	1	2
Route 5W	Avenue L & 42nd Street West	NE	STOP	NS	398	1	1	2
Route 5W	Avenue L & 45th Street West	NW	STOP	FS	399			
Route 5W	Avenue M & 60th Street West	NW	STOP	FS	407			
Route 5W	Avenue M & 65th Street West	NW	STOP	FS	409			
	Avenue J & 20th Street East							
Route 12W	(Bank of America)	NW	TIME POINT	FS	553	2	2	2
Route 12W	20th Street West & Newgrove	SW	STOP	FS	554			
								_
Route 12W	Valley Central Way & Lancaster Blvd.	SW	TIME POINT	FS	556			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID#	SHELTERS	BENCHES	TCANS
Route 12W	Valley Central Way & Central Ct.	SW	STOP	MB	557	1	1	2
Route 12W	Avenue J & 25th Street West	NW	STOP	FS	558	1	1	2
Route 12W	Avenue J & 27th Street West	NW	STOP	FS	559			
Route 12W	30th Street West & Avenue J	SW	STOP	FS	560	1	1	2
Route 12W	30th Street West & Avenue J-6	SW	STOP	МВ	562	1	1	2
Route 12W	30th Street West & Avenue J-8	SW	STOP	FS	563	1	1	2
Route 12W	30th Street West & Avenue J-12	NW	STOP	NS	564	1	1	2
Route 12W	Avenue K & 27th Street West	SW	STOP	NS	565			
Route 12W	Avenue K & 25th Street West	SE	STOP	FS	566	0	0	1
Route 12W	Avenue K & 22nd Street West	SE	STOP	FS	567			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 12W	20th Street West & Avenue K	SW	STOP	FS	568	0	1	2
Route 12W	20th Street West & Avenue K-4	SW	STOP	FS	569			
Route 12W	Avenue K-8 & 20th Street West	SE	STOP	FS	570			
Route 12W	Avenue K-8 & 17th Street West	SE	STOP	MB	571			
Route 12W	Avenue K-8 & 15th Street West	SW	STOP	NS	572	1	1	2
Route 12E	Avenue K-8 & 15th Street West	NW	STOP	FS	573	1	1	2
Route 12E	Avenue K-8 & 17th Street West	NW	STOP	МВ	574			
Route 12E	20th Street West & Avenue K-4	NE	STOP	FS	575			
Route 12E	20th Street West & Avenue K-8	NE	STOP	FS	577			
Route 12E	Avenue K & 20th Street West	NW	STOP	FS	578			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID#	SHELTERS	BENCHES	TCANS
Route 12E	Avenue K & 21st Street West	NE	STOP	NS	579			
Route 12E	Avenue K & 25th Street West	NW	STOP	FS	580	0	1	1
Route 12E	Avenue K & 27th Street West	NE	STOP	NS	581			
Route 12E	30th Street West & Avenue J-12	NE	STOP	FS	582	1	1	2
Route 12E	30th Street West & Avenue J-8	NE	STOP	FS	583			
Route 12E	30th Street West & Avenue J-4	NE	STOP	МВ	584	1	1	2
Route 12E	30th Street West & Avenue J	SE	STOP	NS	585	1	1	2
Route 12E	Avenue J & 27th Street West	SE	STOP	FS	586			
Route 12E	Avenue J & 25th Street West	SE	STOP	FS	587			
Route 12E	Valley Central Way & Avenue J	NE	STOP	FS	588			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 12E	Valley Central Way & Black Angus	NE	STOP	МВ	589			
Route 11E, 12W	Lancaster Blvd. & 20th Street West	NW	STOP	FS	591			
Route 12E	Avenue J & 20th Street West	SE	STOP	FS	592	1	1	2
Route 12E	Avenue J & 17th Street West	SW	STOP	NS	593	1	1	2
Route 12E	Avenue J & 15th Street West	SE	STOP	FS	594	1	1	2
Route 12E	Avenue J & Kingtree	SE	STOP	FS	596	0	1	2
Route 12E, 10N	Avenue J & Fig	SW	STOP	NS	598	1	1	2
Route 12E	Avenue J & Beech	SE	STOP	FS	599			
Route 12E	Avenue J & Division	SE	STOP	FS	600	0	1	1
Route 12E	Avenue J & 3rd Street East	SE	STOP	FS	601			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 12E	Avenue J & 5th Street East	SE	STOP	FS	602	1	1	2
Route 12E	Avenue J & Challenger Way	SE	STOP	FS	603	1	1	2
Route 12E	Avenue J & Palm Vista	SE	STOP	FS	604			
Route 12E	Avenue J & 15th Street East	SE	STOP	FS	605	1	1	2
Route 12E	Avenue J & 17th Street East	SE	STOP	FS	606	1	1	2
	Avenue J & 20th Street East							
Route 11W, 12E	(Stater Bros)	SW	TIME POINT	NS	607	1	1	2
Route 11W, LLA - E	Avenue J & 25th Street East	SE	STOP	FS	608			
Route 11W, LLA - E	Avenue J & 27th Street East	SE	STOP	FS	609			
Route 11W	30th Street East & Avenue J	NE	STOP	FS	610			
Route 11W	30th Street East & Lancaster Blvd.	SE	STOP	NS	611			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 11W	Lancaster Blvd. & 33rd Street East	SW	STOP	MB	612			
Noute 11VV	Lancaster bivd. & 331d Street Last	344	3101	IVID	012			
Route 11W	Lancaster Blvd. & 40th Street East	SW	STOP	NS	613			
Route 1N, 11E	10th Street West & Commerce Cente	SE	STOP	NS	615	1	1	2
	Avenue L & 30th Street West							
Route 5E	(Walgreens)	SE	TIME POINT	FS	618	1	1	2
Noute 3L	15th Street West & SchoolsFirst	JL	THATETON	13	010	1	1	2
	Federal							
Route 11E	Credit Union	NE	STOP	MB	620	0	1	2
	15th Street West & Meadow View							
	Ln							
Route 11E	(AV Kidney Institute)	SE	STOP	MB	621	1	1	2
5 . 445		0.5	0 7 00		600			
Route 11E	15th Street West & Avenue J-3	SE	STOP	NS	622	1	1	2
Route 11E	15th Street West & Newgrove	NE	STOP	MB	623			
Noute III	13th Street West & New Blove	142	3101	1115	023			
Route 11E	Lancaster Blvd. & 15th Street West	NW	STOP	FS	624			
Route 11E	Lancaster Blvd. & 17th Street West	NW	STOP	NS	625			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 11E	Avenue I & Valley Central Way	SE	STOP	FS	627			
Route 11E	Avenue I & 20th Street West	SE	STOP	FS	628			
Route 11E	Avenue I & 17th Street West	SE	STOP	FS	629	0	1	2
Route 11E	Avenue I & 15th Street West	SE	STOP	FS	630	0	1	2
Route 11E	Avenue I & 13th Street West	SE	STOP	FS	631			
Route 7N	Avenue I & 10th Street West	SE	TIME POINT	FS	632	1	1	2
Route 4S, 7N, 1N, 11E	Avenue I & Fern	SE	STOP	FS	633	1	1	2
Route 11E	Division St. & Lancaster Blvd.	NW	STOP	MB	638	1	1	2
Route 11E	Avenue I & Division St.	SE	STOP	FS	639	1	1	2
Route 11E	Avenue I & 3rd Street East	SE	STOP	NS	640	1	1	2

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID#	SHELTERS	BENCHES	TCANS
Route 11E	Avenue I & 5th Street East	SE	STOP	MB	641			
Route 11E	Avenue I & 7th Street East	SE	STOP	FS	642			
Route 11E	Avenue I & Challenger Way	SE	STOP	FS	643	1	1	2
Route 11E	Avenue I & 13th Street East	SE	STOP	MB	644			
Route 11E	Avenue I & 15th Street East	SE	STOP	FS	645	1	1	2
Route 11E	Avenue I & 17th Street East	SE	STOP	MB	646			
Route 11E	Avenue I & 20th Street East	SE	TIME POINT	FS	647			
Route 11E	Avenue I & 25th Street East	SE	STOP	FS	648	1	1	2
Route 11E	Avenue I & 27th Street East	SE	STOP		649			
Route 11E	Avenue I & 30th Street East	SE	STOP		650			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 11E	Avenue I & 35th Street East	SE	STOP	МВ	651			
Route 11W	Avenue I & 35th Street East	NW	STOP	NS	652			
Route 11W	Avenue I & 33rd Street East	NE	STOP	NS	653			
Route 11W	Avenue I & 30th Street East	NW	STOP	FS	654	1	1	2
Route 11W	Avenue I & 27th Street East	NW	STOP	МВ	655			
Route 11W	Avenue I & 20th Street East	NW	TIME POINT	FS	657	1	1	2
Route 11W	Avenue I & 17th Street East	NW	STOP	FS	658	0	1	2
Route 11W	Avenue I & 15th Street East	NW	STOP	FS	659	1	1	2
Route 11W	Avenue I & 13th Street East	NW	STOP	FS	660	0	1	2
Route 11W	Avenue I & Challenger Way	NW	STOP	FS	661			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 11W	Avenue I & 7th Street East	NW	STOP	FS	662	1	1	2
Route 11W	Avenue I & 5th Street East	NW	STOP	NS	663	1	1	2
Route 11W	Avenue I & 3rd Street East	NW	STOP	FS	664	1	1	2
Route 11W	Division & Avenue I	SW	STOP	FS	665			
Route 11W	Division & Lancaster Blvd.	SW	STOP	NS	666			
Route 7S, 11W	Avenue I & Fern	NW	STOP	FS	670	0	1	2
Route 11W	Avenue I & 13th Street West	NW	STOP	NS	671	0	1	1
Route 11W	Avenue I & 15th Street West	NW	STOP	FS	672			
Route 11W	Avenue I & 17th Street West	NW	STOP	FS	673	0	1	2
Route 11W	Avenue I & 20th Street West	NW	STOP	FS	674			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
	Language Rhyd R Vallay Cantual							
Route 11W, 12E	Lancaster Blvd. & Valley Central Way	SE	TIME POINT	FS	676	2	2	2
Noute 11vv, 12L	· · · · · · · · · · · · · · · · · · ·	J.	THATE I OHVI	13	070		2	
	Lancaster Blvd. & 20th Street							
Route 11W, 12E	West	SW	STOP	NS	677	1	1	2
	15th Street West & Lancaster							
Route 11W	Blvd.	SW	STOP	FS	678	0	1	1
Route 11W	15th Street West & Norberry	SW	STOP	MB	679			
Noute 11vv	13th Street West & Norberry	300	3104	IVID	079			
Route 11W	15th Street West & Avenue J-3	SW	STOP	MB	680	1	1	2
Route 11W	15th Street West & Avenue J-8	SW	STOP	MB	681	1	1	2
	4511.61							
Route 11W	15th Street West @ High Desert Medical Group	SW	STOP	MB	682	0	1	2
Route 11vv	Medical Group	300	3104	IVID	062	U	1	2
Route 11W	15th Street West & Avenue K	NW	STOP	FS	683	0	1	2
	Avenue K & 12th Street West							
Route 11W	(Kwik-Key)	SE	STOP	FS	684			
	-77	1						
Route 4S	Division & Lancaster Blvd.	SW	TIME POINT	FS	689			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 7N	Avenue L-8 & 55th Street West	NW	STOP	FS	715			
Route 7N	60th Street West & Avenue L	NE	TIME POINT	FS	716			
Route 7N	60th Street West & Avenue J-8	NE	STOP	FS	717			
Route 7N	60th Street West & Avenue J	NE	STOP	FS	719			
Route 7N	60th Street West & AV State Prison	NE	STOP	MB	720			
	Avenue H & 25th Street West							
Route 7N	(AV Fairgrounds)	SE	TIME POINT	FS	725			
Route 7N	Avenue H & Suffolk Drive	NE	STOP	MB	726			
Route 7N	10th Street West & Avenue H-4	SW	STOP	FS	727			
Route 7N	10th Street West & Holguin Avenue	SW	STOP	FS	728			
Route 7N	10th Street West & Avenue H-12	NW	STOP	NS	729			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 7S	10th Street West & Avenue H-12	SE	STOP	NS	730			
Route 7S	10th Street West & Avenue H-6	NE	STOP	FS	731			
Route 7S	10th Street West & Avenue H	SE	STOP	NS	733			
Route 7S	Avenue H & Suffok Drive	SW	STOP	МВ	735			
Route 7S	Avenue H & 25th Street West (AV Fa	SW	TIME POINT	MB	736			
Route 7S	60th Street West & AV State Prison	SW	STOP	MB	741			
Route 7S	60th Street West & Avenue J	SW	STOP	FS	742	0	1	2
Route 7S	60th Street West & Avenue J-4	SW	STOP	FS	743			
Route 7S	60th Street West & Avenue J-8	SW	STOP	FS	744			
Route 7S	60th Street West & Avenue L	SW	TIME POINT	FS	745			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 7S	Avenue L-8 & 55th Street West	SE	STOP	FS	746			
	Avenue L-12 & Ringstem							
Route 5E, 5W	(Mayflower Gardens)	SW	TIME POINT	NS	891			
Route 1N	10th Street West & Avenue J	NE	TIME POINT	FS	896	1	1	2
	Business Center Parkway & Country							
Route 4S	Wide Drive	SW	STOP	FS	918			
Route 5E	65th Street West & Avenue M	NW	STOP	NS	919			
Route 11E	15th Street West & Avenue K	NE	STOP	FS	920	1	1	2
Route 11W	Avenue I & 26th Street East	NW	STOP	FS	921	0	1	2
Route 12E	Valley Central Way & Central Ct.	NE	STOP	МВ	922			
Route LLA - E	Avenue J & 20th Street East	SE	TIME POINT	FS	951			
								_
Route 5W	15th Street West & Avenue K-11	SW	STOP	МВ	966	1	1	2

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 4S, LLA W	Avenue K & Stancliff	NW	STOP	FS	972			
Route 4N	Avenue M & Sierra Hwy	SW	STOP	NS	973			
Route 5W	67th Street West & Avenue L-15	NE	STOP	FS	976			
Route 4N	Division & Avenue K-4	NE	STOP	FS	983	1	1	2
Route 7N	10th Street West & Avenue H	SW	STOP	FS	992			
Route 4S, 11E	Sierra Hwy & Avenue I	SW	STOP	FS	1006			
	Sierra Hwy & Avenue J-7							
Route 10N, 10S	(University of Antelope Valley)	АТ	TIME POINT	АТ	1013	1	1	2
Route 94	Avenue K & Gadsden	NW	STOP	FS	1018	1	1	2
	Lancaster Blvd. & Valley Central							
Route 11E	Way	NW	TIME POINT	FS	1020	2	2	2
Route 11E	Lancaster Blvd. & 30th Street W.	NW	STOP	NS	1021			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route 11E	Avenue I & 30th Street West	SE	STOP	FS	1022	1	1	2
Route 11W	Avenue I & Valley Central Way	NE	STOP	NS	1023			
Route 11W	30th Street West & Avenue I	SW	STOP	FS	1024	1	1	2
Route 11W	Lancaster Blvd. & 30th Street W.	SE	STOP	FS	1025			
Route 1N	10th Street West & Jackman St.	NE	STOP	FS	1033	1	1	2
Route 1N, 1S, 7N, 7S, 11W,								
4N, 4S	Sierra Hwy & Lancaster Blvd.	NE	TIME POINT	FS	1034	4	4	6
Route 7N	Avenue I & 30th St. West	NE	STOP	NS	1059			
Route 7S	Avenue I & 30th Street West	SW	STOP	NS	1060			
Route LLA - W	Challenger Way & Avenue K	SW	TIME POINT	FS	1109			
Route LLA - W	Challenger Way & Avenue K-8	NW	STOP	NS	1110			

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Route LLA - W	Avenue L & Business Center Dr.	NE	STOP	NS	1111			
		SE		FS				
Route LLA - E	Avenue L & Business Center Dr.	JL	STOP	13	1112			
		NE		FS				
Route LLA - E	Challenger Way & Avenue K-8	112	STOP		1113			
	Avenue K & 10th Street West							
Route 11E	(Foster Freeze)	NW+W	STOP	МВ	1118			
	Avenue K & 12th Street West							
Route 11E	(Kwik-Key)	NW	STOP	FS	1119			
Route 7S	Avenue H & 20th Street West	NW	STOP	FS	1139			
Route 7N	Avenue H & 20th Street West	SW	STOP	NS	1140			
Route 7S	60th Street West & Avenue K	SW	STOP	FS	1141			
Route 7N	60th Street West & Avenue K	NE	STOP	FS	1142			
Route 11E	15th Street West & Avenue J-5	NE	STOP	FS	1147	1	1	2

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Davita 1114/	15th Charat Mart 9 Avenue 15	CVA	CTOD	FC	1140	1	1	2
Route 11W	15th Street West & Avenue J-5	SW	STOP	FS	1148	1	1	2
Route LLA - W	Avenue L & 5th Street West	NW	STOP		1150	1	1	2
		SE						
Route LLA - E	Avenue L & 5th Street West		STOP		1151			
Route 4N	Avenue K & 7th Street East	SE	STOP	FS	1162			
Noute 4N	Avenue R & 7th Street Last	JL	3101	13	1102			
Route 4N	Avenue L & Sierra Hwy	NW	STOP	MB	1163			
Kern County Stop	Sierra Hwy & Milling	SE		FS		1	1	2
Kern County Stop	Avenue J & 23rd Street W	NE		NS		1	1	2
	CORNER	LOCAT						
1	NE	FS - Fa						
2	NE	NS - Ne						
3	SE	FS - Fa						
4	SE	NS - Ne						
5	SW	FS - Farside						
6	SW	NS - Ne						
7	NW	FS - Fa	rside					
8	NW	NS - Ne	earside					

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS
Abbreviation meanings	for stop locations at intersection	ns:						
	NAME	DESCR	RIPTION					
	NS		le (before the i		n)			
	FS	Farside	(after the inte	rsection)				
	MB	Midbloc	k (between int	ersection	s)			
	IN	Intersec	ction is a "T"					
	OP		te a landmark		S			
	AT	At a lan	dmark or addr	ess				
	TYPICAL	INTER	SECTION					
		S			N			
		Е	W			E		
		С	VV			E		
	8	0	1		S			
		Ν						
		D						
7	NW		NE	2				
MAIN				STREET				
6	SW		SE	3				
		Α						
		V						
		Е						
	5	Ν	4					
		U						
		Е						

DIRECTION	STOP NAME	CORNER	NODE TYPE ID	POSITION	STOP ID #	SHELTERS	BENCHES	TCANS