

# **APPENDIX G:**

20-Year Transportation Improvement Project Cost Lists





City of Las Vegas Mobility Master Plan  
**Fiscal Year 2018-2022 Projects**

PROJECT NAME	WARD	LENGTH (MILES)	ESTIMATED CLV COST (\$M)	OTHER ENTITY COST (\$M)	KEY BIKE LANE QUANTITY FOR KPI			O&M IMPACT
					Buffered Lanes	Non-Buffered but Enhanced Existing Lanes	New Basic Lanes	
DURANGO STREET REHAB AND BUFFERED BIKE LANES - FARM TO BRENT LANE	6	1.25	\$1.10		0.75		0.5	IMPROVED ASSETS
GRAND TETON STREET REHAB AND BUFFERED BIKE LANES - SKY POINTE TO DURANGO	6	0.5	\$0.50				0.5	IMPROVED ASSETS
GRAND TETON STREET REHAB AND BUFFERED BIKE LANES - DURANGO TO BUFFALO	6	1	\$0.80		1			IMPROVED ASSETS
JONES BOULEVARD STREET REHAB AND BUFFERED BIKE LANES- LONE MOUNTAIN TO RANCHO	4	1	\$1.50		1			IMPROVED ASSETS
EASTERN AVENUE COMPLETE STREET - CEDAR TO OWENS	3	1.25	\$7.20	\$2.00	1		0.25	TREE MAINTENANCE
MARYLAND PARKWAY STREET REHAB AND BIKE LANE RETROFIT - STEWART TO BRUCE	3/5	1.25	\$2.75				1.25	IMPROVED ASSETS
BUFFALO STREET REHAB AND BIKE LANE RETROFIT - LAKE MEAD TO CHEYENNE	1/4	1.5	\$0.80				1.5	IMPROVED ASSETS
DESERT INN STREET REHAB AND BIKE LANE RETROFIT - FORT APACHE TO GRAND CANYON	2	0.5	\$0.75				0.5	IMPROVED ASSETS
DESERT INN STREET REHAB AND BIKE LANE RETROFIT - GRAND CANYON TO HUALAPAI	2	0.5	\$0.75				0.5	IMPROVED ASSETS
HUALAPAI STREET REHAB AND BIKE LANE RETROFIT- SAHARA TO CHARLESTON	2	1	\$0.80				1	IMPROVED ASSETS
HUALAPAI STREET REHAB AND BIKE LANE RETROFIT - SAHARA TO DESERT INN	2	1	\$1.10		1		1	IMPROVED ASSETS
WASHINGTON STREET REHAB AND BIKE LANE RETROFIT - JONES TO RAINBOW	1/5	1	\$1.50				1	IMPROVED ASSETS
RANCHO STREET REHAB AND SIDEWALK WIDENING/STREET TREES - ALTA TO CHARLESTON	1	0.5	\$5.00					TREE MAINTENANCE
DURANGO STREET REHAB AND BIKE LANE RETROFIT - SAHARA TO CHARLESTON	1/2	1	\$0.80				1	IMPROVED ASSETS
ALTA STREET REHAB AND BUFFERED BIKE LANES - DURANGO TO RAINBOW	1,2	2	\$1.60		2			IMPROVED ASSETS
LAKE MEAD STREET REHAB AND BIKE LANE RETROFIT - HILLS CENTER TO ANASAZI	2/4	1.25	\$0.80				1.25	IMPROVED ASSETS
TENAYA STREET REHAB AND ENHANCED BIKE LANES - ALEXANDER TO SMOKE RANCH	2/4	2	\$1.60				2	IMPROVED ASSETS
TENAYA STREET REHAB AND ENHANCED BIKE LANES - SMOKE RANCH TO LAKE MEAD	1,4	0.5	\$0.40			0.5		IMPROVED ASSETS
TENAYA STREET REHAB AND ENHANCED BIKE LANES - LAKE MEAD TO WASHINGTON	1	1	\$0.80				1	IMPROVED ASSETS
CHEYENNE STREET REHAB - 215 TO HUALAPAI	4	0.5	\$0.55					IMPROVED ASSETS
WASHINGTON STREET REHAB AND BIKE LANE RETROFIT - JONES TO DECATUR	1/5	1	\$1.10				1	IMPROVED ASSETS
PARADISE COMPLETE STREET/GATEWAY CONVERSION - SAHARA TO SAINT LOUIS	3	0.25	\$3.00				0.25	TREE MAINTENANCE
GRAND CANYON STREET REHAB AND BUFFERED BIKE LANES - CHEYENNE TO ALEXANDER	4	1	\$0.80		1			IMPROVED ASSETS
GRAND CENTRAL STREET REHAB - IRON HORSE TO CITY PARKWAY	1/5	1	\$0.80					IMPROVED ASSETS
WASHINGTON STREET REHAB AND ENHANCED BIKE LANES - RAINBOW TO DURANGO	1,5	2	\$2.00				2	IMPROVED ASSETS
BUFFALO STREET REHAB, BUFFERED BIKE LANES, ENHANCED MEDIAN - SAHARA TO CHARLESTON	1	1	\$4.00		1			IMPROVED ASSETS
SMOKE RANCH STREET REHAB AND BUFFERED BIKE LANES - RAINBOW TO BUFFALO	1/4/5	1	\$0.80		1			IMPROVED ASSETS
DECATUR STREET REHAB - WASHBURN TO TROPICAL	6	1	\$0.80					IMPROVED ASSETS
ALEXANDER STREET REHAB AND BUFFERED BIKE LANES - HUALAPAI TO CLIFF SHADOWS	4	1	\$0.80		1			IMPROVED ASSETS
VEGAS DRIVE STREET REHAB AND ENHANCED BIKE LANES - BUFFALO TO RAINBOW	1	1	\$0.80				1	IMPROVED ASSETS
VEGAS DRIVE STREET REHAB AND ENHANCED BIKE LANES - RAMPART TO BUFFALO	2	1.5	\$1.20				1.5	IMPROVED ASSETS
FARM STREET REHAB AND ENHANCED BIKE LANES - TENAYA TO DURANGO	6	1.75	\$2.00				1.75	IMPROVED ASSETS
DECATUR STREET REHAB AND BIKE LANE RETROFIT - FARM TO ELKHORN	6	0.5	\$1.10				0.5	IMPROVED ASSETS
TROPICAL STREET REHAB AND ENHANCED BIKE LANES - DECATUR TO JONES	6	1	\$1.10				1	IMPROVED ASSETS
US95 AT VEGAS DRIVE OVERPASS COMPLETION AND BIKE LANE EXTENSION	1/5	0.25	\$5.50				0.25	NDOT BRIDGE
US95 AT ALEXANDER ROAD OVERPASS COMPLETION AND BIKE LANE EXTENSION	4	0.25	\$5.50				0.25	NDOT BRIDGE
US95 AT LONE MOUNTAIN OVERPASS COMPLETION AND BIKE LANE EXTENSION	4	0.25	\$5.50				0.25	NDOT BRIDGE
JOHN HERBERT / 215 INTERCHANGE / FRONTAGE ROAD TO OSO BLANCA / OSO BLANCA UNDERPASS	6	1	\$0.50	\$60.00			1	NDOT BRIDGE
PINTO LANE - "NEON" MLK TO RANCHO COMPLETE STREET	1	0.75	\$5.00				0.75	TREE MAINTENANCE
LAS VEGAS BLVD - STEWART TO CHARLESTON PEDESTRIAN FRIENDLY RECONSTRUCTION	3/5	1	\$17.00					TREE MAINTENANCE
LAS VEGAS BLVD - CHARLESTON TO SAHARA PEDESTRIAN FRIENDLY RECONSTRUCTION	3	1	\$19.00					TREE MAINTENANCE
LAS VEGAS BLVD - STEWART TO OWENS COMPLETE STREET / BIKE LANE RETROFIT	5	1.25	\$21.00				1	TREE MAINTENANCE
CALIFORNIA STREET - COMMERCE TO 3RD COMPLETE STREET	3	0.25	\$2.40					TREE MAINTENANCE
COLORADO STREET - COMMERCE TO 3RD COMPLETE STREET	3	0.25	\$2.40					TREE MAINTENANCE
BRIDGER - MAIN TO GRAND CENTRAL EXTENSION W/ BRIDGE OVER UPRR	5	0.25	\$34.25				0.25	TREE MAINTENANCE
CITY PARKWAY / US95 INTERCHANGE	5	0.25	\$5.00	\$20.00				NDOT BRIDGE
CITY PARKWAY - BONANZA TO GRAND CENTRAL PARKWAY CAPACITY AND COMPLETE STREET	5	0.25	\$4.00				0.25	TREE MAINTENANCE
OWENS AVENUE COMPLETE STREET - H STREET TO UPRR CROSSING	5	0.75	\$12.00		0.75			TREE MAINTENANCE
LOSEE ROAD EXTENSION - LAKE MEAD TO OWENS	5	0.5	\$4.50					IMPROVED ASSETS
I-15 FRONTAGE ROAD - WASHINGTON TO LAKE MEAD	5	1	\$14.00					IMPROVED ASSETS
OGDEN AVENUE COMPLETE STREET - LVB TO 13TH	3,5	0.5	\$4.50					TREE MAINTENANCE

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PROJECT NAME	WARD	LENGTH (MILES)	ESTIMATED CLV COST (\$M)	OTHER ENTITY COST (\$M)	KEY BIKE LANE QUANTITY FOR KPI			O&M IMPACT
					Buffered Lanes	Non-Buffered but Enhanced Existing Lanes	New Basic Lanes	
6TH STREET - BRIDGER TO BONNEVILLE COMPLETE STREET	3	0.25	\$2.40					TREE MAINTENANCE
7TH STREET - BRIDGER TO STEWART COMPLETE STREET	3,5	0.4	\$3.20					TREE MAINTENANCE
8TH STREET - BRIDGER TO STEWART COMPLETE STREET	3,5	0.4	\$3.20					TREE MAINTENANCE
9TH STREET - FREMONT TO STEWART COMPLETE STREET	3,5	0.125	\$1.60					TREE MAINTENANCE
WASHINGTON AVENUE BIKE LANE RETROFIT/STREETSCAPE- MLK TO D	5	1.25	\$4.00				1.25	TREE MAINTENANCE
HOOVER AVENUE AT UPRR BIKE/PED BRIDGE	1/3	0.25	\$6.50					BRIDGE
UPRR TRAIL - CHARLESTON TO 515	1/5	1	\$13.00					TRAIL LIGHTING
SPENCER ALIGNMENT TRAIL - CHARLESTON TO SAHARA	3	1	\$1.50					TRAIL LIGHTING
WASHINGTON - LAS VEGAS BLVD TO BRUCE STREET REHAB AND BIKE LANE RETROFIT	3,5	0.5	\$0.60				0.5	IMPROVED ASSETS
BONANZA - MLK TO H STREETSCAPE AND BIKE LANE RETROFIT	5	1	\$3.00				1	TREE MAINTENANCE
BOTTLENECK IMPROVEMENT - US95/DECATUR SB OFFRAMP	1/5	0.25	\$1.25					IMPROVED ASSETS
BOTTLENECK IMPROVEMENT - CC215/CHARLESTON SB ON/OFF RAMP	2	0.25	\$0.25	\$2.00				IMPROVED ASSETS
BOTTLENECK IMPROVEMENT - CHARLESTON / NELLIS	3	0.125	\$1.25					IMPROVED ASSETS
BOTTLENECK IMPROVEMENT - ANN / CENTENNIAL CENTER	4,6	0.25	\$1.25					IMPROVED ASSETS
LAKE MEAD - LOSEE TO TONOPAH COMPLETE STREET	5	2	\$10.00	\$5.00	2			TREE MAINTENANCE
LAMB - STEWART TO OWENS COMPLETE STREET	3	1.5	\$10.00		1.5			TREE MAINTENANCE
215 BELTWAY TRAIL - CENTENNIAL TO DECATUR	6	5.75	\$8.00					BRIDGE
STEWART AVENUE COMPLETE STREET - 13TH TO NELLIS	3,5	3.75	\$9.00		3		0.75	TREE MAINTENANCE
STEWART AVENUE COMPLETE STREET - LVB TO 13TH	3/5	0.5	\$5.00				0.5	TREE MAINTENANCE
WYOMING - INDUSTRIAL TO LVB CAPACITY / COMPLETE STREET	3	0.5	\$5.00				0.5	TREE MAINTENANCE
SYMPHONY PARK PEDESTRIAN BRIDGE N/O FREMONT	3/5	0.125	\$9.00					BRIDGE
FREMONT EAST PHASE 2 - 8TH TO MARYLAND PEDESTRIAN ENHANCEMENTS / STREETSCAPE	3	0.25	\$3.50					TREE MAINTENANCE
VARIOUS INTERSECTION IMPROVEMENTS CITYWIDE FOR BIKE LANE PINCH POINTS	1,2,3,4,5,6	1	\$5.00					IMPROVED ASSETS
SUMMERLIN PARKWAY TRAIL - RAMPART TO 215	2/4	3.5	\$6.00					TRAIL LIGHTING
RAINBOW - WESTCLIFF TO SAHARA COMPLETE STREET	1	2	\$6.50				2	TREE MAINTENANCE
NELLIS AVENUE BUS TURNOUTS AND SHELTER RELOCATIONS - OWENS TO CHARLESTON	3	2	\$1.80					IMPROVED ASSETS
EASTERN AVENUE BUS TURNOUTS AND SHELTER RELOCATIONS - CEDAR TO SAHARA	3	1.5	\$1.00					IMPROVED ASSETS
VARIOUS INTERSECTION IMPROVEMENTS CITYWIDE FOR CAPACITY AND SAFETY	1,2,3,4,5,6	1	\$10.00					IMPROVED ASSETS
ADCOCK AND GARSIDE SCHOOL SAFE ROUTE IMPROVEMENTS	1	0.25	\$1.25					IMPROVED ASSETS
HARRIS AVENUE SAFE ROUTE TO SCHOOL UPGRADES - BRUCE TO WARDELLE	3	0.85	\$1.50				0.85	IMPROVED ASSETS
CLARK HIGH SCHOOL SAFE ROUTE IMPROVEMENT - PENNWOOD BETWEEN DECATUR AND VALLEY VIEW	1	1	\$0.80	\$0.20	1			IMPROVED ASSETS
CLARK HIGH SCHOOL SAFE ROUTE IMPROVEMENT - ARVILLE BETWEEN SIRIUS AND SAHARA	1	1	\$2.50	\$0.25				IMPROVED ASSETS
HANCOCK ELEMENTARY SCHOOL SAFE ROUTE IMPROVEMENT - LINDELLE BETWEEN CHARLESTON AND OAKY	1	0.5	\$2.00					IMPROVED ASSETS
FORT APACHE / RAMPART / DURANGO - DESERT INN TO CHEYENNE BIKE LANE RETROFIT	2/4	5	\$8.00				5	IMPROVED ASSETS
BOULDER AVENUE - 1ST TO ART WAY COMPLETE STREET	3	0.1	\$0.60					TREE MAINTENANCE
CENTENNIAL CENTER TRAFFIC CALMING - ANN TO GRAND MONTECITO	6	1.25	\$1.00					IMPROVED ASSETS
CHARLESTON - RANCHO TO MLK SIDEWALK / STREETSCAPE IMPROVEMENT	1	1	\$6.00					TREE MAINTENANCE
SYMPHONY PARK PHASE 2 PARCEL ROADWAY INFRASTRUCTURE	5	1	\$6.50	\$1.60				IMPROVED ASSETS
DECATUR BLVD BUS TURNOUTS AND SHELTER RELOCATIONS - US95 TO ELKHORN	1,5,6	8	\$3.00					IMPROVED ASSETS
CENTENNIAL HILLS SAWTOOTH INFILL (VARIOUS LOCATIONS)	6	4	\$7.00					IMPROVED ASSETS
BUFFALO DRIVE BUS TURNOUTS AND SHELTER RELOCATIONS - CHARLESTON TO CHEYENNE	1,2,4	4	\$2.50					IMPROVED ASSETS
NORTHWEST EXPANSION AREA AT FORT APACHE/MOCCASSIN - MAJOR STREET ROAD IMPROVEMENTS	6	3	\$8.00					IMPROVED ASSETS
GOWAN - HUALAPAI TO BUFFALO ROAD DIET / BUFFERED BIKE LANES / TRAFFIC CALMING MEDIANS	4	3.5	\$0.60		3.5			IMPROVED ASSETS
GRAND CENTRAL / INDUSTRIAL CONNECTOR OVER UPRR	1,3	0.5	\$32.00				0.5	BRIDGE
BONANZA TRAIL CYCLE TRACK - US95 NB OFF TO US95 SB ON	1	0.125	\$0.30					IMPROVED ASSETS
TENAYA - CHEYENNE TO SMOKE RANCH BUS TURNOUTS, SHELTER RELOCATIONS, MEDIAN RETROFIT	1	1	\$1.00					IMPROVED ASSETS
SUMMERLIN PARKWAY OVERLAY - 215 TO BUFFALO	1,2,4	4	\$3.50					IMPROVED ASSETS
FORT APACHE / RAMPART - ROUTE 120 BUS TURNOUTS AND SHELTER RELOCATIONS	2,4	5	\$2.00					IMPROVED ASSETS
DURANGO/WESTCLIFF/BUFFALO - ROUTE 121 BUS TURNOUTS AND SHELTER RELOCATIONS	1,2,4	4	\$1.50					IMPROVED ASSETS
LAKE MEAD / HILLS CENTER / TOWN CENTER - ROUTE 210 BUS TURNOUTS AND SHELTER RELOCATIONS	2,4,5	6	\$1.50					IMPROVED ASSETS
CIMARRON ROAD - OAKY TO VEGAS DRIVE BUFFERED BIKE LANES AND TRAFFIC CALMING	1,2	2.25	\$0.80		2.25			IMPROVED ASSETS

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					Buffered Lanes	Non-Buffered but Enhanced Existing Lanes	New Basic Lanes	
HILLPOINTE - LAKE MEAD TO RAMPART ROAD DIET / BUFFERED BIKE LANES	2,4	1.75	\$0.75		1.75			IMPROVED ASSETS
CHARLESTON / US95 INTERCHANGE SAFETY AND CAPACITY IMPROVEMENTS	3	0.5	\$2.00	\$6.00				IMPROVED ASSETS
BONANZA - RANCHO TO NELLIS BUS TURNOUTS AND SHELTER RELOCATIONS	3,5	6.5	\$2.00					IMPROVED ASSETS
OAKY - VALLEY VIEW TO WESTERN STREET REHAB AND BIKE LANE RETROFIT	1	1.75	\$1.40				1.75	IMPROVED ASSETS
WASHBURN - DURANGO TO TENAYA SAWTOOTH INFILL AND TRAFFIC CALMING	4	2	\$1.50					IMPROVED ASSETS
JACKSON AVENUE - "H" TO "C" COMPLETE STREET IMPROVEMENTS	5	0.25	\$2.00					TREE MAINTENANCE
MLK - ALTA TO CAREY BUS TURNOUTS AND SHELTER RELOCATIONS	5	2.5	\$1.25				0.25	IMPROVED ASSETS
<b>TOTAL</b>		<b>150.25</b>	<b>\$451.00</b>	<b>\$97.05</b>	25.5	9.25	32.1	

5/13/2016

*O&M CONSIDERATIONS:*

- 1) EACH OF THE PROJECTS HAVE BEEN NOTED FOR O & M IMPACT. THE MAJORITY OF THE PROJECTS RENEW/REPLACE AN EXISTING OLD ASSET SO THE O&M IMPACT IS ACTUALLY POSITIVE FOR MOST PROJECTS
- 2) AN EXCEPTION IS COMPLETE STREET PROJECTS THAT HAVE BEEN NOTED TO ADD TREES. TREE MAINTENANCE HAS A SIGNIFICANT IMPACT ON O&M. THE CITY ESTIMATES THAT A STREET TREE COSTS \$760/YR TO MAINTAIN (WATER, IRRIGATION SYSTEM, PRUNING, FERTILIZING)
- 3) THE EXPANSION OF THE BIKE LANE NETWORK AND ADDITION OF BUFFERED BIKE LANES WILL REQUIRE ADDITIONAL SIGN AND MARKING MAINTENANCE STAFF
- 4) FOR EVERY MILE OF NEW ROADWAY ADDED, THE CITY GAS TAX ALLOCATION IS INCREASED. THESE FUNDS DO NOT COVER THE FULL COST OF MAINTAINING THE NEW ROADWAY MILEAGE

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PROJECT NAME	WARD	LENGTH (MILES)	ESTIMATED CLV COST (\$M)	OTHER ENTITY COST (\$M)	O&M IMPACT
SHEEP MOUNTAIN PARKWAY - 215 TO GRAND TETON WITH DIRECT RAMPS TO/FROM 215	6	2.5	\$35.00		NEW BRIDGE
CC215 BELTWAY TRAIL BRIDGES - AT LAKE MEAD, GRAND CANYON, TORREY PINES	2,4,6	0.25	\$15.00	\$10 CMAQ; \$5 SNPLMA	NEW BRIDGE
MICHAEL WAY AT US95 BIKE / PED BRIDGE	1,5	0.25	\$6.50	CMAQ	NEW BRIDGE
CHEYENNE AVENUE - 215 TO DECATUR BUS TURNOUTS / SHELTER RELOCATIONS	4,5	6	\$6.00		IMPROVED ASSETS
US95 AT PAIUTE / CITY 600 ACRE SITE INTERCHANGE	6	1	\$30.00		NEW BRIDGE
CITY 600 ACRE SITE AT MOCCASSIN/FORT APACHE MAJOR STREET INFRASTRUCTURE	6	3.5	\$35.00		IMPROVED ASSETS
MAIN STREET - US95 TO OWENS COMPLETE STREET	5	1.5	\$15.00		TREE MAINTENANCE
MLK - OAKY TO TEDDY EXTENSION; DIRECT CONNECT TO D.I. OVERPASS	1	1.5	\$62.00		NEW BRIDGE
I-515 TRAIL - UPRR TO CHARLESTON	3,5	3	\$4.00	SNPLMA	TRAIL LIGHTING
BONANZA - MAIN TO EASTERN BIKE LANE RETROFIT AND SIDEWALK WIDENING	3,5	1.5	\$3.00		IMPROVED ASSETS
MICHAEL WAY BUFFERED BIKE LANES - LAKE MEAD TO RANCHO	5	2	\$1.00		IMPROVED ASSETS
OAKY - BUFFALO TO RAINBOW STREET REHAB AND ENHANCED BIKE LANES	1	1	\$1.10		IMPROVED ASSETS
OAKY - DURANGO TO BUFFALO STREET REHAB AND ENHANCED BIKE LANES	1	1	\$0.80		IMPROVED ASSETS
HUALAPAI - CHEYENNE TO ALEXANDER STREET REHAB AND BUFFERED BIKE LANES	4	1	\$0.80		IMPROVED ASSETS
DURANGO - CENTENNIAL TO US95 STREET REHAB AND BIKE LANE RETROFIT	6	1.5	\$1.20		IMPROVED ASSETS
DECATUR BLVD - LONE MOUNTAIN TO 215 STREET REHAB AND BIKE LANE RETROFIT	6	2	\$3.00		IMPROVED ASSETS
VEGAS DRIVE - RAINBOW TO JONES STREET REHAB AND ENHANCED BIKE LANES	5	1	\$0.80		IMPROVED ASSETS
VEGAS DRIVE - JONES TO DECATUR STREET REHAB AND ENHANCED BIKE LANE	5	1	\$0.80		IMPROVED ASSETS
ALEXANDER - CIMARRON TO DURANGO STREET REHAB AND BUFFERED BIKE LANES	4	0.5	\$0.40		IMPROVED ASSETS
ALEXANDER - DURANGO TO FORT APACHE STREET REHAB AND BUFFERED BIKE LANES	4	1	\$0.80		IMPROVED ASSETS
ALEXANDER - FORT APACHE TO HUALAPAI STREET REHAB AND BUFFERED BIKE LANES	4	1	\$0.80		IMPROVED ASSETS
HORSE - JONES TO DECATUR STREET REHAB AND BUFFERED BIKE LANES	6	1	\$0.80		IMPROVED ASSETS
GRAND TETON - JONES TO DECATUR STREET REHAB AND BUFFERED BIKE LANES	6	1	\$0.80		IMPROVED ASSETS
ELKHORN - JONES TO DECATUR STREET REHAB AND BUFFERED BIKE LANES	6	1	\$0.80		IMPROVED ASSETS
JONES - 215 TO ELKHORN STREET REHAB AND BUFFERED BIKE LANES	6	1	\$0.80		IMPROVED ASSETS
JONES - ELKHORN TO HORSE STREET REHAB AND ENHANCED BIKE LANES	6	2	\$1.60		IMPROVED ASSETS
RAINBOW - US95 TO SMOKE RANCH STREET REHAB AND BIKE LANE RETROFIT	5	1.75	\$2.00		IMPROVED ASSETS
SAINT LOUIS - PARADISE TO BOULDER HIGHWAY STREET REHAB, ENHANCED BIKE LANES, DECORATIVE MEDIANS	3	2.5	\$4.00		TREE MAINTENANCE
GRAND MONTECITO - CENTENNIAL TO OSO BLANCA STREET REHAB AND ENHANCED BIKE LANES	6	1.25	\$1.00		IMPROVED ASSETS
GRAND TETON - PULI TO OSO BLANCA STREET REHAB AND BUFFERED BIKE LANES	6	2	\$1.60		IMPROVED ASSETS
DURANGO - BRENT TO MOCCASSIN STREET REHAB AND BUFFERED BIKE LANES	6	1.25	\$1.00		IMPROVED ASSETS
RANCHO - CHARLESTON TO SAHARA STREET REHAB	1	1	\$0.80		IMPROVED ASSETS
VEGAS - RANCHO TO MLK STREET REHAB AND ENHANCED BIKE LANES	5	1.5	\$1.20		IMPROVED ASSETS
OWENS - MLK TO H STREET REHAB AND ENHANCED BIKE LANES	5	0.5	\$0.50		IMPROVED ASSETS
OWENS - UPRR TO LVB STREET REHAB AND PEDESTRIAN SAFETY COUNTERMEASURES	5	0.75	\$2.00		IMPROVED ASSETS
DEER SPRINGS - HUALAPAI TO DURANGO STREET REHAB AND BIKE LANE RETROFIT	6	1.5	\$1.65		IMPROVED ASSETS
ELKHORN - GRAND CANYON TO DURANGO STREET REHAB AND BUFFERED BIKE LANES	6	1	\$0.80		IMPROVED ASSETS
FORT APACHE - DEER SPRINGS TO GRAND TETON STREET REHAB AND BUFFERED BIKE LANES	6	1.5	\$1.20		IMPROVED ASSETS
GRAND CANYON - DEER SPRINGS TO GRAND TETON STREET REHAB AND ENHANCED BIKE LANES	6	1.5	\$1.20		IMPROVED ASSETS
VEGAS DRIVE - DECATUR TO RANCHO STREET REHAB AND ENHANCED BIKE LANES	5	1	\$0.80		IMPROVED ASSETS
SHAUMBER - GRAND TETON TO CENTENNIAL STREET REHAB AND BIKE LANE RETROFIT	6	2	\$0.50		IMPROVED ASSETS
JONES - LONE MTN TO 215 STREET REHAB AND BUFFERED BIKE LANES	4,6	1.75	\$1.40		IMPROVED ASSETS
TORREY PINES - SAHARA TO US95 STREET REHAB AND ENHANCED BIKE LANES	1	2	\$1.60		IMPROVED ASSETS

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PROJECT NAME	WARD	LENGTH (MILES)	ESTIMATED CLV COST (\$M)	OTHER ENTITY COST (\$M)	O&M IMPACT
DECATUR BRT RETROFIT - PENNWOOD TO US95 (PART OF LARGER PROJECT DOWN TO 215 SOUTH)	1	2.25	\$2.00	\$12 (RTC/FTA)	IMPROVED ASSETS
MARYLAND PKWY LRT LOCAL MATCH FUNDS (MISC UPGRADES ALONG CARSON, BONNEVILLE, TONOPAH)	1,3		\$5.00		IMPROVED ASSETS
TOWN CENTER ROUNDABOUTS AT HUALAPAI AND CANYON RUN ADA UPGRADE / REPLACEMENT	2	0.5	\$4.50		IMPROVED ASSETS
ALTA - DESERT FOOTHILLS TO DURANGO STREET REHAB AND ENHANCED BIKE LANES	2	4.5	\$3.60		IMPROVED ASSETS
OWENS - LVB TO NELLIS STREET REHAB AND BIKE LANE RETROFIT	3,5	4	\$2.40		IMPROVED ASSETS
CRAIG ROAD - DECATUR TO RANCHO BUS TURNOUTS AND SHELTER RELOCATIONS	4,5	1.5	\$0.50		IMPROVED ASSETS
RAINBOW - US95 TO LONE MOUNTAIN BUS TURNOUTS AND SHELTER RELOCATIONS	4,5	5	\$3.50		IMPROVED ASSETS
BRADLEY ROAD - ANN TO GRAND TETON ROAD DIET / BUFFERED BIKE LANES	6	3	\$0.85		IMPROVED ASSETS
EGAN CREST BIKE LANE RETROFIT - DORELL TO GRAND TETON	6	1.25	\$0.20		IMPROVED ASSETS
FARM ROAD BIKE LANE RETROFIT - SHAUMBER TO OSO BLANCA	6	2.25	\$0.40		IMPROVED ASSETS
<b>TOTAL</b>		<b>89.00</b>	<b>\$274.00</b>		

5/13/2016

*O&M CONSIDERATIONS:*

- 1) EACH OF THE PROJECTS HAVE BEEN NOTED FOR O & M IMPACT. THE MAJORITY OF THE PROJECTS RENEW/REPLACE AN EXISTING OLD ASSET SO THE O&M IMPACT IS ACTUALLY POSITIVE FOR MOST PROJECTS
- 2) AN EXCEPTION IS COMPLETE STREET PROJECTS THAT HAVE BEEN NOTED TO ADD TREES. TREE MAINTENANCE HAS A SIGNIFICANT IMPACT ON O&M. THE CITY ESTIMATES THAT A STREET TREE COSTS \$760/YR TO MAINTAIN (WATER, IRRIGATION SYSTEM, PRUNING, FERTILIZING)
- 3) THE EXPANSION OF THE BIKE LANE NETWORK AND ADDITION OF BUFFERED BIKE LANES WILL REQUIRE ADDITIONAL SIGN AND MARKING MAINTENANCE STAFF
- 4) FOR EVERY MILE OF NEW ROADWAY ADDED, THE CITY GAS TAX ALLOCATION IS INCREASED. THESE FUNDS DO NOT COVER THE FULL COST OF MAINTAINING THE NEW ROADWAY MILEAGE

City of Las Vegas Mobility Master Plan  
**Fiscal Year 2028-2032 Projects**

PROJECT NAME	WARD	LENGTH (MILES)	ESTIMATED CLV COST (\$M)	OTHER ENTITY COST (\$M)	O&M IMPACT
SUMMERLIN PARKWAY ULTIMATE IMPROVEMENTS - 215 TO US95	1,2,4	4.5	\$5.00	\$90 (NDOT**)	IMPROVED ASSETS
ARTERIAL / COLLECTOR REHAB (CORRIDORS TO BE DETERMINED)	1,2,3,4,5,6	60	\$60.00		IMPROVED ASSETS
NORTHWEST EXPANSION AREA INTERCHANGE AT US95 N/O SNOW MOUNTAIN	6	1	\$26.00		NEW BRIDGE
MARYLAND PARKWAY / I-515 INTERCHANGE	3,5	1	\$5.00	\$145 (NDOT)	NEW BRIDGE
SANDHILL - OWENS TO WASHINGTON TRAFFIC CALMING AND OVERPASS AT LAS VEGAS WASH	3	0.5	\$6.00		NEW BRIDGE
MARION - CHARLESTON TO OWENS TRAFFIC CALMING AND OVERPASS AT LAS VEGAS WASH	3	2	\$6.00		NEW BRIDGE
CIRCULAR PEDESTRIAN BRIDGE AT SAHARA/LVB	3	0.125	\$10.00	\$20 (\$10 NDOT, \$10 CCPW)	NEW BRIDGE
<b>TOTAL</b>		<b>69.13</b>	<b>\$118.00</b>		

\*\*The bulk of costs for this project are shown being borne by NDOT. CLV is in discussions with NDOT to trade Summerlin Pkwy for Charleston Blvd and other arterial streets and we fully expect trade to occur prior to the date these improvements are needed

5/13/2016

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City of Las Vegas Mobility Master Plan  
**Fiscal Year 2033-2038 Projects**

PROJECT NAME	WARD	LENGTH (MILES)	ESTIMATED CLV COST (\$M)	OTHER ENTITY COST (\$M)	O&M IMPACT
CLIFF SHADOWS PARKWAY / SHAUMBER ROAD CONNECTOR - LONE MTN TO WASHBURN	4	0.5	\$25.00		IMPROVED ASSET
US95 AT SMOKE RANCH HOV DIRECT CONNECT RAMPS	1,5	1	\$5.00	\$35 (NDOT)	BRIDGE
I-15 AT MEADE HOV DIRECT CONNECT RAMPS	1	0.5	\$5.00	\$50 (NDOT)	BRIDGE
US95 AT PECOS / STEWART INTERCHANGE	3	1	\$5.00	\$45 (NDOT)	BRIDGE
CHEYENNE TRAIL - 215 TO RONEMUS	1,4	4	\$16.00	CMAQ, SNPLMA	TRAIL LIGHTING
PEAK TRAIL - TENAYA TO RANCHO W/ PED/BIKE BRIDGE OVER US95	1,5	3	\$15.00	CMAQ, SNPLMA	TRAIL LIGHTING
SHEEP MOUNTAIN PARKWAY - KYLE CANYON ROAD TO US95 WITH DIRECT RAMPS		1.5	\$90.00		BRIDGE
4TH STREET - LAS VEGAS BLVD TO BRIDGER 2-WAY CYCLE TRACK	3	1	\$10.00		IMPROVED ASSET
RAMPART - CHARLESTON TO SUMMERLIN PARKWAY AUX LANES	2	X	\$25.00		IMPROVED ASSET
CRESTDALE AT SUMMERLIN PARKWAY HOV DIRECT CONNECT RAMPS	2	0.5	\$7.00		BRIDGE
ARTERIAL AND COLLECTOR STREET REHAB (CORRIDORS TBD)	1,2,3,4,5,6	60	\$60.00		IMPROVED ASSET
<b>TOTAL</b>		<b>72.5</b>	<b>\$263.00</b>	*BALANCE OF ANTICIPATED FUNDS FOR COST ESCALATION	

\*\*The interchange at Pecos/Stewart is currently under design by NDOT and it is expected that it will be funded by NDOT; HOV interchanges are expected to be funded by NDOT as they are part of their HOV Master Plan.

5/13/2016

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**MMP Projects not Included in Funding Model (Funded or Scheduled for Completion in FY 2017)**

PROJECT NAME	FUNDING SOURCE	CLV COST (\$M)
COOLIDGE COMPLETE STREET - MAIN TO 4TH	FRI-1	\$1.60
GASS COMPLETE STREET - CHARLESTON TO MAIN	FRI-1	\$4.50
6TH STREET COMPLETE STREET - BRIDGER TO STEWART	FRI-1	\$4.00
ELKHORN AT US95 HOV DIRECT CONNECT ACCESS RAMPS	CMAQ	\$4.50
US95 AT KYLE CANYON INTERCHANGE	FRI-1R	\$6.50
3RD STREET COMPLETE STREET - CHARLESTON TO FREMONT	FRI-1	\$7.00
BOTTLENECK IMPROVEMENT - CHARLESTON AND LAMB	CMAQ	\$6.00
SHADOW LANE SIDEWALK AND STREETScape	FRI-1	\$2.50
JONES BLVD STREET REHAB AND BIKE LANE RETROFIT - US95 TO SMOKE RANCH	NDOT	\$3.00
MEADOWS WALKABLE COMMUNITY IMPROVEMENTS	VARIOUS	\$2.50
CLIFF SHADOWS PARKWAY - NOVAT TO GILMORE WIDENING, REHAB, BIKE LANES	FRI-1	\$2.20
Oakey - RAINBOW TO VALLEY VIEW STREET REHAB AND BIKE LANE RETROFIT	FRI-1	\$2.50
SUMMERLIN PARKWAY AUX LANES - TOWN CENTER TO BUFFALO	FRI-1	\$5.50
CIMMARON ROAD AT SUM PKWY BIKE / PEDESTRIAN BRIDGE	CMAQ	\$5.00
28TH STREET BIKE LANES - BONANZA TO CHARLESTON	GF	\$0.01
BUFFALO STREET REHAB AND BUFFERED BIKE LANES - SKYPOINTE TO GRAND TETON	FRI-1	\$1.50
CIMARRON STREET REHAB AND BUFFERED BIKE LANES - SKYPOINTE TO GRAND TETON	FRI-1	\$1.25
ELKHORN STREET REHAB AND BUFFERED BIKE LANES - US95 TO TENAYA	FRI-1	\$1.00
JONES BLVD STREET REHAB AND BUFFERED BIKE LANES - RANCHO TO ANN	FRI-1	\$1.60
WASHINGTON - RANCHO TO MLK BIKE LANE RETROFIT	FRI-1	\$0.30
WESTCLIFF TRAFFIC CALMING - Durango to Rainbow	GF	\$0.15
Town Center Street Rehab and Bike Lane Retrofit - Charleston to Sum Pkwy	FRI-1	\$1.20
<b>Total</b>		<b>\$64.31</b>

## Major Transit Investments

\*WE HAVE DETERMINED THAT OUR ANTICIPATED ROADWAY FUNDING ALLOCATIONS CAN NOT SUPPORT THE HUGE INVESTMENTS THAT WOULD BE NEEDED FOR MAJOR TRANSIT SYSTEM IMPROVEMENTS.

THE FOLLOWING MMP TRANSIT PROJECTS REQUIRE **A DEDICATED LOCAL TRANSIT SYSTEM FUNDING SOURCE** IN ORDER TO LEVERAGE AN FTA GRANT THAT COULD BE NEAR 50% OF COSTS:

**1) CHARLESTON CENTER RUNNING LIGHT RAIL - TOWN CENTER TO BTC TO SLOAN TURNAROUND**

LENGTH: 15.2 MILES

COST: \$1,106,834 (APPROXIMATELY \$73 MILLION / MILE INCLUDING DESIGN, R/W, CONSTRUCTION, AND PURCHASE OF LIGHT RAIL VEHICLES)

**2) RANCHO CENTER RUNNING LIGHT RAIL - RAINBOW TO BTC**

LENGTH: 7.1 MILES

COST: \$484,973,000 (APPROXIMATELY \$68 MILLION / MILE INCLUDING DESIGN, R/W, CONSTRUCTION, AND PURCHASE OF LIGHT RAIL VEHICLES)

**3) MARYLAND SIDE RUNNING LIGHT RAIL - MCCARRAN AIRPORT TO LAS VEGAS MEDICAL DISTRICT**

LENGTH: 8.7 MILES

COST: \$465,000,000 (APPROXIMATELY \$53.5 MILLION / MILE INCLUDING DESIGN, R/W, CONSTRUCTION, AND PURCHASE OF LIGHT RAIL VEHICLES)

**4) LAS VEGAS BLVD LIGHT RAIL - MCCARRAN AIRPORT TO CASHMAN CAMPUS**

LENGTH: TBD

COST: TBD