

May 16, 2019

Mr. Adam Miller Growth and Infrastructure Team Leader City of Phoenix Planning and Development Department 200 West Washington Street, 3rd Floor Phoenix, AZ 85003

RE: Engineering/Consulting Services 2017-2018 On-Call Contract #144008 City of Phoenix Project #ST85140053-1 Infrastructure Financing Plan Update – Transportation Study Final Deliverable

Dear Mr. Miller:

Kimley-Horn is pleased to present this memorandum as the final deliverable associated with the Transportation Study completed by Kimley-Horn in support of the 2019 update of the City of Phoenix Infrastructure Financing Plan (IFP).

The scope of this study has primarily revolved around a traffic impact analysis of 2020-2029 land use projections for two "service" areas within the City of Phoenix anticipated to see a significant amount of new development over the next ten years. This new development will likely result in the need for capacity-increasing improvements to the arterial streets that serve the new development.

The analysis conducted by Kimley-Horn complies with the Arizona Revised Statute (ARS) §9-463.05 (the Development Fee statute), Sections E.1 through E.3, which require that for each necessary public service with a development fee, an existing service inventory, an existing level of service (LOS) analysis, and a description of additional service infrastructure necessary and attributable to new development in the service area, be prepared by qualified professionals licensed in this state.

Service Area Figures

Kimley-Horn analyzed the following service areas:

- Northern service area (combination of the Northwest and Northeast service areas from the prior IFP); and
- Southwest service area.

The boundaries of the Northern and Southwest service areas are shown in **Figure A** and **Figure B**, respectively.



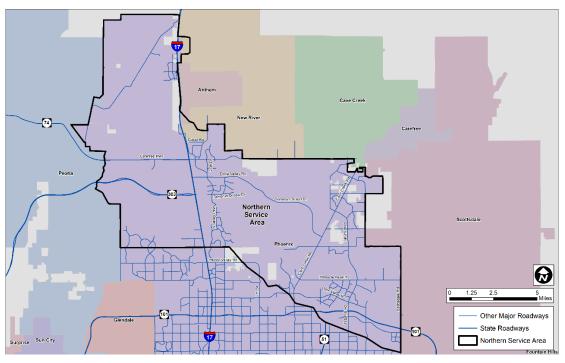
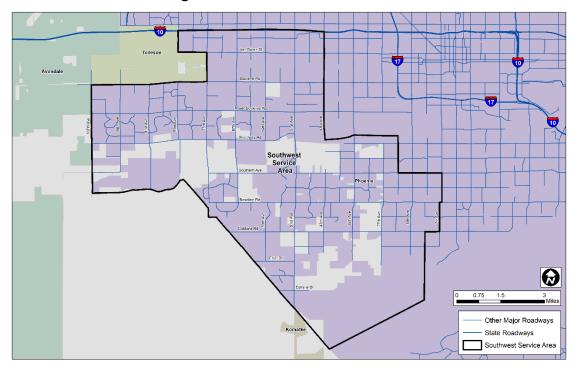


Figure A - Northern Service Area







Transportation Study Tables

Collectively, **Tables 1 through 19** provide the values, factors, relationships, and formulas developed by Kimley-Horn in conjunction with the City of Phoenix to develop the initial arterial street Gross Impact Fee per Equivalent Demand Unit (EDU) for each service area.

Table 1 presents the major arterial street capacity thresholds developed by Kimley-Horn in conjunction with City staff for use in the IFP. These capacity thresholds are the estimated maximum number of vehicles per day the various roadway cross-sections can accommodate.

Table 2 presents the trip generation and traffic impact calculations for the various types of land uses projected for development within the 2020-2029 planning period. The assumed daily trip generation rates, new trip factors, and average trip lengths are used to calculate estimated travel demand, which is expressed in vehicle miles of travel (VMT). An EDU adjustment factor for travel demand for each land use has been developed by comparing the travel demand of single-family residential land use to the travel demand of the other land uses.

Table 3 provides a comparison of the EDU adjustment factors developed in the prior table to the EDU adjustment factors developed in the prior version of the IFP. The new EDU adjustment factors are lower than those from the previous IFP, except for the multi-family residential land use. This is because the trip generation rates from the 10th edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual are generally lower than those from the 9th edition of the same manual. The mini warehouse and hotel EDU factors were not part of the prior IFP and are provided herein for assessment purposes only – they were not used for estimating future travel demands.

Table 4 and Table 5 show the current and projected EDUs in the Northern and Southwest service areas, respectively, based on the different land use categories and EDU factors shown in prior tables.

Table 6 presents the assumed roadway construction costs for various arterial street cross-sections. The construction cost information was developed by Kimley-Horn based on actual bid tab cost information from 18 recent local street improvement projects. More detail on the construction costs is available in Kimley-Horn's April 19, 2019 memo on unit costs.

Tables 7 and 8 indicate the existing (2019) and 2020-2029 planned capacity of each arterial street segment of interest in the Northern and Southwest service areas, respectively. The existing capacity is based on the street cross section and the segment length and is expressed in vehicle-miles.



Tables 9 and 10 indicate which improvements are included in the 2020-2029 Infrastructure Improvement Plan (IIP) and provide construction costs for those improvements.

Table 11 provides the estimated value of the existing culverts and the estimated cost of the culverts to be installed as part of the IIP for the Northern service area. **Table 12** provides the estimated value of the existing storm drain system in the Southwest service area while **Table 13** provides the estimated cost of the storm drains to be installed as part of the IIP for the Southwest service area.

Tables 14 and 15 provide the estimated value of the existing bridges and the estimated cost of the bridges to be installed as part of the IIP for the Northern and Southwest service areas, respectively.

Tables 16 and 17 show for the Northern and Southwest service areas, respectively, the comparison of the percentage of the ultimate capacity that will be constructed by the 2020-2029 IIP to the percentage of the buildout EDUs that are assumed in the 2020-2029 timeframe to ensure that there is not a disproportionate amount of roadway network capacity being shouldered by the impact fee program.

Tables 18 and 19 provide the initial gross fee per EDU calculation for the Northern and Southwest service areas, respectively. These values need to be adjusted by the City of Phoenix, as needed, to account for credits and offsets that go into the calculation of the net impact fee per EDU.

Please contact Michael Grandy at (480) 207-2662 should you have any questions regarding the content of this letter.

Sincerely,

Michael Grandy, P.E.

Michael Grandy

Attachments: Tables 1 through 19

Table 1 - Major Arterial Street Capacity

	•	, ,		
			Roadway	/ Capacity ^(4,5)
			T. I. I.	(6)
	D(1)			Capacity ⁽⁶⁾
	Roadway Cross Section ⁽¹⁾		•	V/C = 1.00)
		Standard City of	Maximum	Maximum
MASIF		Phoenix Street	vehicles	vehicles per
Study		Cross Section	per day	day per lane
Abbr. (2)	Distinguishing Features ⁽¹⁾	Equivalent ⁽³⁾	(veh/day)	(veh/day/ln)
	3 thru lanes + left turn lane(s), in each direction (3 & 3). Opposing			
6LD	traffic flows separated by raised median.	A, B	55,000	9,167
	Same as 6LD, except only 2 thru lanes in one direction (3 & 2, rather	Non-Standard		
5LD	than 3 & 3).	(N/S)	45,833	9,167
	2 thru lanes + left turn lane, in each direction (2 & 2). Opposing			
4LD	traffic flows separated by raised median.	CM	36,667	9,167
FILL.	3 thru lanes in one direction; 2 in the other (3 & 2). Opposing traffic	NI/C	42 5 42	0.700
5LU+	flows separated by a 2-way left turn lane.	N/S	43,542	8,708
4LU+	2 thru lanes each direction (2 & 2). Opposing traffic flows separated	C, D	34.833	8.708
7101	by a 2-way left turn lane. Same as 4LU+, except only 1 thru lane in one direction (2 & 1, rather	С, В	34,033	0,700
3LU+	than 2 & 2).	N/S	26,125	8,708
	1 thru lane each direction (1 & 1). Opposing traffic flows separated			
2LU+	by a 2-way left turn lane.	N/S	17,417	8,708
41.11	2 thru lanes each direction (2 & 2). Minimal to no separation	N. /0	07.506	
4LU-	between opposing traffic flows; left turns made from thru lanes.	N/S	27,500	6,875
2111	1 thru lane each direction (1 & 1). Minimal to no separation	NI/C	12.750	4 07E
2LU-	between opposing traffic flows; left turns made from thru lanes.	N/S	13,750	6,875

- 1. Major arterial streets with six thru lanes and a raised median are designated as "6LD" segments. City adopted/standard cross sections "A" (140' ROW, 24' median width), and "B" (130' ROW, 14' median width) are 6LD examples. While 6LDs are considered "standard" for major arterials, there are a significant number of partially-to-fully built out major arterials that provide fewer than 6 thru lanes and that may or may not provide raised medians and/or separate left turn lanes. Because the three most significant factors in the calculation of roadway segment capacity are (1) the number of through lanes; (2) the existence or absence of a raised center median; and (3) the existence or absence of separate left turn lanes, a separate and distinct set of capacity values has been established for each major arterial cross section variation observed to exist within the service areas under consideration in this study.
- 2. MASIF stands for Major Arterial Streets Impact Fee.
- 3. Standard City of Phoenix Street cross sections referenced in the MASIF tables are shown on the City's *Street Classification Map*, 2014 revision; and in the City's *Street Planning and Design Guidelines*, adopted in 2009. This study focuses on roadway capacity specifically, as Major Arterial impact fees do not currently cover outside curb and gutter or surface features behind/outside of the outside curb.
- 4. Roadway Capacity, in the context of this study, provides the necessary services of vehicular mobility and land use connectivity. To make use of traffic count data readily available from the City, a peak hour-to-daily traffic volume conversion approach was used to establishing the capacity values indicated in this table.
- 5. Sources used to establish the daily traffic volume capacity values in this table include the following: (1) City of Phoenix Street Planning and Design Guidelines; (2) Florida Department of Transportation Quality/Level of Service Handbook; (3) City of Phoenix General Plan - Circulation Element; (4) Maricopa County Department of Transportation (MCDOT) Roadway Design Manual; and (5) Transportation Research Board Highway Capacity Manual.
- 6. Total capacity is defined, for the purposes of this study, as the maximum amount of traffic that a major arterial street can carry under prevailing conditions of geometry, traffic mix, and location.

Table 2 - Trip Generation, Traffic Impact, and Equivalent Demand Unit (EDU) Calculations

	S				T: 0		0 1 1 1								
	Units				Trip G	eneration (caiculatioi	ns				Traffic	Impact Cald	culations	
	ŧυ			SC								٦		Demand	
	nen ⑵	Total Tri	Total Trip Rates PM Pk Hr Trip End Split Combined Trip Rates A		Avg Trip	Length (5)(6)	(VMT) (3)								
Land Use ⁽¹⁾	Development (2)	Daily (veh/day)	PM Peak Hour (veh/hr)	% Primary	In (Include)	Out to External (Include)	Out to Internal (Exclude)	Trip Generation Adjustment Factor ⁽⁷⁾	PM Peak Hour (veh/hr)	Daily (veh/day)	Trip Length Weighting Factor ⁽⁶⁾		PM Peak Hour (veh/hr)	Daily (veh-mi)	EDU ⁽⁴⁾ Factor
Single-Family Res. (ITE LUC 210)	DWU	9.44	0.99	86%	63%	2%	35%	56%	0.55	5.26	121%	11.64	6.43	61.28	1.00
Multi-Family Res. (ITE	DVVO	7.44	0.77	0070	0370	270	3370	3076	0.55	5.20	12170	11.04	0.43	01.20	1.00
LUC 220)	DWU	7.32	0.56	86%	63%	0%	37%	54%	0.30	3.97	121%	11.64	3.53	46.16	0.75
Commercial/Retail															
(ITE LUC 820)	KSF	37.75	3.81	56%	48%	8%	44%	31%	1.19	11.80	66%	6.35	7.56	74.90	1.22
Office (ITE LUC 710)	KSF	9.74	1.15	100%	16%	34%	50%	50%	0.57	4.83	73%	7.02	4.01	33.93	0.55
Industrial (ITE LUC 110)	KSF	4.96	0.63	100%	13%	44%	44%	57%	0.36	2.80	73%	7.02	2.50	19.68	0.32
Public/Institutional (ITE LUC 610)	KSF	10.72	0.97	80%	32%	14%	54%	36%	0.35	3.91	73%	7.02	2.48	27.46	0.45
Mini Warehouse (ITE LUC 151)	KSF	1.51	0.17	92%	47%	11%	42%	53%	0.09	0.80	75%	7.22	0.65	5.77	0.09
Hotel (ITE LUC 310)	Rooms	8.36	0.60	58%	51%	10%	39%	35%	0.21	2.95	75%	7.22	1.53	21.27	0.35

- 1. ITE LUC stands for Institute of Transportation Engineers (ITE) Trip Generation, 10th Ed. Land Use Code (LUC). ITE is the source of all unadjusted trip generation rates used in this study.
- 2. Units of measure used specifically for the purposes of trip generation and impact fee calculations presented in this transportation study, include "DWU" (Residential Dwelling Unit), "KSF" (1,000 square feet), and Rooms
- 3. VMT stands for vehicle miles traveled. One vehicle using one mile of service area major arterial to complete a trip is equal to one vehicle-mile of service area major arterial demand.
- 4. EDU = Equivalent Demand Unit; the number of single family residential DWU trips it would take to cause the same travel demand impact of a single development unit of any other type.
- 5. Units of measure used specifically for the purposes of trip generation and impact fee calculations presented in this transportation study include "veh" (vehicles) and "mi" (miles).
- 6. Average trip length value of 9.62 and length weighting factors were derived from Table 30 Daily Travel Statistics by Weekday vs. Weekend, of the National Household Travel Survey (NHTS), 2009 Update.
- 7. Trip End is a term used to recognize that a single trip made from one land use to another is considered both an inbound trip generated by (i.e. attracted to) the land use defining the trip's termination point, and an outbound trip generated (i.e. produced) by the trips origination point. These two trip ends only impact the travel route between them one time. To avoid double counting, it is necessary to discount those outbound/production trips that terminate internal to the service area. Production trips that terminate outside the service area should not be discounted, as they will not have been also recognized as an inbound trip for other development internal to the service area.

Table 3 - EDU Adjustment Factor Comparison

	EDU Adjusti	ment Factor
Land Use	Current (Prior IFP)	Proposed (2020-2029)
Single-Family Residential	1.00	1.00
Multi-Family Residential	0.70	0.75
Commercial/Retail	1.37	1.22
Office	0.63	0.55
Industrial	0.44	0.32
Public/Institutional	0.61	0.45
Mini Warehouse	-	0.09
Hotel	-	0.35

Table 4 - Northern Service Area Equivalent Demand Units

	Equivalent Demand Units, "EDU"								
Land Use	Existing (2019)	2020-2029 Growth	2029 Total	Buildout					
Single-Family Residential	34,090	18,222	52,312	118,502					
Multi-Family Residential	6,737	6,166	12,903	48,591					
Commercial/Retail	5,345	3,947	9,292	42,000					
Office	581	1,052	1,633	16,792					
Industrial	403	254	657	14,420					
Public/Institutional	2,981	1,873	4,854	9,377					
Northern Service Area Totals	50,137	31,514	81,651	249,682					

Table 5 - Southwest Service Area Equivalent Demand Units

	Equivalent Demand Units, "EDU"									
Land Use	Existing (2019)	2020-2029 Growth	2029 Total	Buildout						
Single-Family Residential	42,399	15,805	58,204	62,987						
Multi-Family Residential	810	4,622	5,432	8,492						
Commercial/Retail	6,585	4,380	10,965	14,858						
Office	1,602	1,441	3,043	4,569						
Industrial	16,634	4,198	20,832	24,040						
Public/Institutional	3,945	2,866	6,811	8,064						
Southwest Service Area Totals	71,975	33,312	105,287	123,010						

Table 6 - 2020-2029 Major Arterial Street Construction Unit Costs

Cross Sec	tion (XSEC) Type		
Lane Configuration	Standard City Cross Section ⁽²⁾	Capacity (veh/day)	Roadway Construction Cost (per mile)
6LD	А	55,000	\$ 3,947,094
6LD	В	55,000	\$ 3,667,281
4LU+	С	34,833	\$ 3,076,813
4LD	CM	34,833	\$ 3,004,840
4LU+	D	34,833	\$ 2,745,591

- 1. Streets with six thru lanes and a raised median are considered "divided" and are designated as "6LD" segments. Streets with four thru lanes and a raised median are designated as "4LD" segments. Streets with four thru lanes but no raised median are considered "undivided" and are designated as "4LU" segments, with a "+" indicating a two-way left-turn lane is provided and a "-" indicating no left-turn lane is provided.
- 2. Standard City of Phoenix Street cross sections referenced are shown on the City's *Street Classification Map*, 2014 revision; and in the City's *Street Planning and Design Guidelines*, adopted in 2009.
- 3. Construction costs include 15% for design and 22% for City of Phoenix administrative costs.

Table 7 - 2019 Major Arterial Street Existing and 2020-2029 Planned Capacity - Northern Service Area

Table 7 2017 Major Arterial Street					, ,			
			Ultimate					2222.22
	1000	F 1.11	City			10000000	E 1.00.	2020-29
	Ultimate	Existing	Standard	Ultimate	Existing	Ultimate	Existing	Planned
	Length,	Length,	Cross	Lane	Lane	Capacity,	Capacity,	Additional
	"L _{UIt} "	"L ₂₀₁₉ "	Section,	Config.,	Config,	"VMC _{UIt} "	"VMC ₂₀₁₉ "	Capacity
Planned Major Arterial Street Segment	(miles)	(miles)	"XSEC _{ULT} "	"LCON _{UIt} "	"LCON ₂₀₁₉ "	(veh-miles)	(veh-miles)	(veh-miles)
39th Ave/Vision Way (39A), Pioneer Rd to Anthem Way	1			4111	DNE			
39A Pioneer Road to Daisy Mtn Rd	1.35	0.00	C C	4LU+ 4LU+	DNE DNE	47,025	0	0
39A Daisy Mtn Rd to 2640' s/o Anthem Way 39A 2640' south to Anthem Way	2.46	0.00		4LU+ 4LU+	4LU+	85,690 17,417	17 417	0
39A 2640' south to Anthem Way 43rd Ave (43A), Dixileta Dr to Carefree Hwy	0.50	0.50	С	410+	410+	17,417	17,417	0
43A Dixileta Dr to Dove Valley Rd	1.89	0.00	Α	6LD	DNE	103,950	0	0
43A Dove Valley Rd to Carefree Hwy	1.00	0.00	A	6LD	DNE	55,000	0	0
51st Ave (51A), Inspiration Pkwy (Jomax Rd align.) to Pyramid P		0.00		<u> </u>		50,000	- C	
51A Jomax Rd to CAP	0.83	0.83	Α	6LD	4LD	45,650	30,433	0
51A CAP to Dixileta Dr	1.57	0.00	Α	6LD	DNE	86,350	0	0
51A Dixileta Dr to Dove Valley Rd	1.76	0.00	Α	6LD	DNE	96,800	0	0
51A Dove Valley Rd to Carefree Hwy	1.00	0.00	Α	6LD	DNE	55,000	0	0
51A Carefree Hwy to Pioneer Rd	2.00	0.00	Α	6LD	DNE	110,000	0	0
51A Pioneer Rd to Pyramid Peak Pkwy	1.83	0.00	Α	6LD	DNE	100,650	0	0
Anthem Way (ANT), Avenue A to I-17			1	//-	Dr			
ANT Avenue A to New River Rd	1.16	0.00	B B	6LD	DNE	63,800	0	0
ANT New River Rd to Avenue B	0.67	0.00	B	6LD	DNE	36,850	0	0
ANT Avenue B to Pyramid Peak Pkwy	0.67	0.00	В В	6LD	DNE 4LD	36,850	0	0
ANT Pyramid Peak Pkwy to 43rd Ave	0.50	0.50		6LD 6LD	6LD	27,500	18,333	0
ANT 43rd Ave to I-17 Avenue A (AVA), Desert Hills Dr (@ west limit of fee area) to Nev	0.31	0.31	B of foo area)	6LD	6LD	17,050	17,050	0
AVA New River Rd to Desert Hills Dr	1.00	1.00		6LD	DNE	55,000	0	0
AVA New River Rd to Desert Hills DI AVA Desert Hills Dr to Anthem Wy	2.99	0.00	B B	6LD	DNE	164,450	0	0
AVA Anthem Wy to Jenny Lin Rd	2.00	0.00	В	6LD	DNE	110,000	0	
AVA Jenny Lin Rd to New River Rd	1.33	0.00	В	6LD	DNE	73,150	0	0
Avenue C (AVC), New River Rd to Pioneer Rd	1.00	0.00		-		70,100		
AVC New River Rd to Pioneer Rd	1.00	0.00	Α	6LD	DNE	55,000	0	0
Carefree Hwy (CFH), west limit of fee area (@ +/- 73rd Ave align) to Paloma F	kwy						
CFH I-17 to North Valley Pkwy	0.36	0.36	Α	6LD	5LD	19,800	16,500	3,300
CFH North Valley Pkwy to Paloma Pkwy	1.11	1.11	Α	6LD	5LD	61,050	50,875	10,175
Daisy Mountain Dr (DSY), west limit of fee area (@ Avenue A) to		1						
DSY Avenue A to New River Rd	1.17	0.00	A	6LD 6LD	DNE DNE	64,350	0	0
DSY New River Rd to Avenue B	0.50	0.00	A		DNE	27,500	0	0
DSY Avenue B to Pyramid Peak Pkwy	1.00 1.50	0.00	A	6LD	DNE	55,000	0	41.250
DSY Pyramid Peak Pkwy to City Limit DSY City Limit to I-17	0.43	0.00	A A	6LD- ¹ / ₂ 6LD- ¹ / ₂	DNE	41,250 11,825	0	41,250 11,825
Dixileta Dr (DXD), CAP (@ +/- 73rd Ave align.) to I-17	0.43	0.00	A	0LD- 7 ₂	DIVE	11,023	U	11,025
DXD CAP to 67th Ave	0.72	0.00	A	6LD	DNE	39,600	0	0
DXD 67th Ave to 51st Ave	2.05	0.00	A	6LD	DNE	112,750	0	0
DXD 51st Ave to I-17	2.50	0.00	Α	6LD	DNE	137,500	0	0
Jenny Lin Rd (JLN), Avenue A to I-17		•						
JLN Avenue A to New River Rd	0.83	0.00	В	6LD	DNE	45,650	0	0
JLN New River Rd to I-17	1.12	0.00	В	6LD	DNE	61,600	0	0
New River Rd (NRV), Cloud Rd to I-17 (north of Jenny Lin Rd)			1	// =	Dr			
NRV Cloud Rd to Avenue C	1.00	1.00	В	6LD	DNE	55,000	0	0
NRV Avenue C to Avenue A	1.00	1.00	<u>B</u>	6LD	DNE DNE	55,000	0	0
NRV Avenue A to Pioneer Rd	0.83	0.83	<u>A</u>	6LD 6LD	DNE	45,650	0	0
NRV Pioneer Rd to Desert Hills Dr	0.67	0.67	A	6LD	DNE	36,850 01,950	0	
NRV Desert Hills Dr to Daisy Mtn Dr NRV Daisy Mtn Dr to Anthem Wy	1.67	1.67	A	6LD	DNE	91,850 92,500	0	0
NRV Daisy Mtn Dr to Anthem Wy NRV Anthem Wy to Jenny Lin Rd	1.50 0.83	1.50 0.83	A A	6LD	DNE	82,500 45,650	0	0
NRV Jenny Lin Rd to I-17	1.50	1.06	A	6LD	DNE	45,650 82,500	0	0
North Valley Pkwy (NVP), CAP to Carefree Hwy	1.30	1.00		0.5		02,000	U	U
NVP Jomax Rd to 500' s/o CAP	0.15	0.15	Α	6LD	4LU+	8,250	5,225	0
NVP 500' s/o CAP to CAP	0.10	0.10	A	6LD	5LD	5,500	4,583	0
NVP CAP to Quail Track Dr	0.12	0.12	Α	6LD	5LD	6,600	5,500	0
NVP Quail Track Dr to Copperhead Tr	0.58	0.58	Α	6LD	6LD	31,875	31,875	0
NVP Copperhead Tr to 660' n/o Casino Ave	0.61	0.61	Α	6LD	5LD	33,802	27,958	0
NVP 660' n/o Casino Ave to Dixileta Dr	0.74	0.74	Α	6LD	5LD	40,700	33,917	0
NVP Dixileta Dr to 200' s/o Rancho Tierra	0.71	0.71	Α	6LD	6LD-1/2	39,050	19,525	19,525
NVP 200' s/o Rancho Tierra to Sonoran Desert Dr	0.40	0.40	A	6LD	4LD	22,000	14,667	7,333
NVP Sonoran Desert Dr to Dove Valley Rd	1.12	1.12	A	6LD	4LD	61,600	41,067	20,533
NVP Dove Valley Rd to 27th Dr	0.26	0.26	A	6LD	4LD	14,300	9,533	0
NVP 27th Dr to exist. north end of road	0.41	0.41	A	6LD	4LD	22,781	15,188	0
NVP Exist. north end of road to Carefree Hwy	0.59	0.00	Α	6LD	DNE	32,188	0	32,188

Table 7 - 2019 Major Arterial Street Existing and 2020-2029 Planned Capacity - Northern Service Area

Table 7 - 2017 Major Arterial Street		arra 202	.0 2027		oapaon,		00. 1.00	
	Ultimate	Existing	Ultimate City Standard	Ultimate	Existing	Ultimate	Existing	2020-29 Planned
	Length,	Length,	Cross	Lane	Lane	Capacity,	Capacity,	Additional
	"L _{UIt} "	"L ₂₀₁₉ "	Section,	Config.,	Config,	"VMC _{UIt} "	"VMC ₂₀₁₉ "	Capacity
Planned Major Arterial Street Segment	(miles)	(miles)	"XSEC _{ULT} "	"LCON _{UIt} "	"LCON ₂₀₁₉ "	(veh-miles)	(veh-miles)	(veh-miles)
Pioneer Rd (PIO), New River Rd to I-17	1			(ID	DNE		.	
PIO New River Rd to Avenue C	1.00	0.00	В	6LD 6LD	DNE DNE	55,000	0	
PIO Avenue C to Cloud Rd PIO Cloud Rd to Pyramid Peak Pkwy	0.50 0.76	0.00	В В В	6LD	DNE	27,500 41,800	0	
PIO Pyramid Peak Pkwy to 51st Ave	1.00	0.00		6LD	DNE	55,000	<u>_</u>	
PIO 51st Ave to 39th Ave	2.00	0.00	<u>В</u> В	6LD	DNE	110.000	<u>0</u>	
PIO 39th Ave to I-17	0.33	0.33	В	6LD	2LU-	18,150	4,538	
Pyramid Peak Pkwy (PYR), southwest corner of fee area (@ +/-6						,	.,,,,,,	
PYR SW Limit of fee area to 64th Ave	0.18	0.18	В	6LD	4LD	9,900	6,600	(
PYR 64th Ave to Cavedale Dr	0.13	0.13	В	6LD	4LD	7,150	4,767	(
PYR Cavedale Dr to 400' n/o Maya Wy	0.20	0.20	B B	6LD	4LD	11,000	7,333	(
PYR 410' North of Maya Wy to 190' s/o of Bent Tree Dr	0.29	0.29	В	6LD	4LU+	15,950	10,102	(
PYR 190' s/o Bent Tree Dr to Dynamite Blvd	0.50	0.50	В В	6LD 6LD	4LD 4LD	27,500	18,333	(
PYR Dynamite Blvd to Brookhart Wy	0.23	0.23	В			12,650	8,433	
PYR Brookhart Wy to CAP	0.70	0.70	B B	6LD	6LD	38,500	38,500	
PYR CAP to Dixileta PYR Dixileta Dr to Dove Valley Rd	0.77 1.44	0.00		6LD 6LD	DNE DNE	42,350 79,200	0	
PYR Dove Valley Rd to Carefree Hwy	0.98	0.00	В В В В	6LD	DNE	53,900	0	
PYR Carefree Hwy to Pioneer Rd	3.24	0.00	R	6LD	DNE	178,200	0	
PYR Pioneer Rd to 51st Ave	2.33	0.00	B	6LD	DNE	128,150	0	
PYR 51st Ave to Daisy Mtn Dr	0.50	0.00	В	6LD	DNE	27,500	0	
PYR Daisy Mtn Dr to Anthem Wy	1.50	0.00	B B	6LD	DNE	82,500	0	26,125
onoran Desert Dr (SDD), I-17 to east limit of fee area (@ +/- 16	th St align.)	•						
SDD I-17 to North Valley Pkwy	1.02	1.02	Α	6LD	6LD	56,100	56,100	(
SDD North Valley Pkwy to 1250' e/o NVP	0.25	0.25	A	6LD	2LU+	13,750	4,354	9,396
SDD 1250' e/o NVP to Paloma Pkwy	0.25	0.25	A	6LD	2LU+	13,750	4,354	9,396
SDD Paloma Pkwy to Dove Valley Rd.	3.05	0.00	A	6LD	DNE	167,750	0	53,121
th St (7S), CAP to Happy Valley Rd	0.54	0.54		6LD	2LU-	20.050	7.040	
7S CAP to Happy Valley Rd lack Mountain Blvd (BMB), Loop 101 to Cave Creek Rd	0.51	0.51	В	OLD	ZLU-	28,050	7,013	(
BMB 1,150' s/o Mayo Blvd to Mayo Blvd	0.22	0.22	Α	4LD	4LD	8,067	8,067	(
BMB Mayo Blvd to Deer Valley Rd	0.24	0.24	A	6LD	6LD	13,200	13,200	
BMB Deer Valley Rd to Rough Rider Rd	0.50	0.50	A	6LD	6LD	27,500	27,500	
BMB Rough Rider Rd to Pinnacle Peak Rd	0.50	0.50	Α	6LD	2LU+	27,500	8,708	18,792
BMB Pinnacle Peak Rd to Happy Valley Rd	1.08	0.00	Α	6LD	DNE	59,400	0	59,400
BMB Happy Valley Rd to 885' s/o Briles Rd	0.73	0.00	Α	6LD	DNE	40,150	0	40,150
BMB 885' s/o Briles Rd to Jomax Rd	0.42	0.42	Α	6LD	2LU-	23,100	5,775	(
BMB Jomax Rd to Cave Creek Rd	0.68	0.00	Α	6LD	DNE	37,400	0	(
ave Creek Rd (CAV), CAP to North City limits		•						
CAV CAP to Deer Valley Rd	0.48	0.48	В	6LD	4LD	26,400	17,600	8,800
CAV Deer Valley Rd to Cielo Grande Ave	0.50	0.50	В	6LD	5LD	27,500	22,917	4,583
CAV Cielo Grande Ave to 835' n/o Cielo Grande Ave	0.16	0.16	B B	6LD 6LD	5LD 5LD	8,800		1,467
CAV 835' n/o Cielo Grande to 405' s/o Pinnacle Peak CAV 405' s/o Pinnacle Peak to Pinnacle Peak Rd	0.14	0.14 0.08	P R	6LD	5LD	7,700 4,400	6,417 3,667	1,283
CAV Pinnacle Peak Rd to HVR alignment	1.00	1.00	В	6LD	5LD	55,000	45,833	733
CAV HVR alignment to 2400' s/o Jomax Rd	0.57	0.57	В В	6LD	4LD	31,350	20,900	9,167 10,450
CAV 2400' s/o of Jomax Rd to Jomax Rd	0.45	0.45	R	6LD	4LD	24,750	16,500	10,430
CAV Jomax Rd to Black Mtn Pkwy	0.43	0.62	B B	6LD	4LD	34,100	22,733	
CAV Black Mtn Pkwy to Dynamite Blvd	0.51	0.51	B	6LD	4LD	28,050	18,700	
CAV Dynamite Blvd to 290' n/o Peak View Rd	0.61	0.61	В В	6LD	4LD	33,550	22,367	(
CAV 290' n/o Peak View Rd to Tatum Blvd	0.53	0.53	В	6LD	4LD	29,150	19,433	(
CAV Tatum Blvd to Desert Willow Pky	0.85	0.85	B B	6LD	4LD	46,750	31,167	
CAV Desert Willow Pky to Lone Mtn Rd	0.25	0.25	В	6LD	4LD	13,750	9,167	
CAV Lone Mtn Rd to 925' n/o Lone Mtn Rd	0.18	0.18	В В	6LD	4LD	9,900	6,600	
CAV 925' n/o Lone Mtn Rd to Ashler Hills Dr	0.39	0.39	В В	6LD	4LD	21,450	14,300	
CAV Ashler Hills Dr to Ocupado Dr	0.26	0.26	В	6LD	4LD	14,300	9,533	
CAV Ocupado Dr to Rancho Paloma	0.18	0.18	B B	6LD	4LD	9,900	6,600	
CAV Rancho Paloma to 300' s/o Smokehouse Trl	0.40	0.40		6LD	4LD	22,000	14,667	
CAV 300' s/o Smokehouse Trl to City Limits	0.21	0.21	В	6LD	4LD	11,550	7,700	

Table 7 - 2019 Major Arterial Street Existing and 2020-2029 Planned Capacity - Northern Service Area

			Ultimate					
			City					2020-29
	Ultimate	Existing	Standard	Ultimate	Existing	Ultimate	Existing	Plannec
	Length,	Length,	Cross	Lane	Lane	Capacity,	Capacity,	Addition
	"L _{Ult} "	"L ₂₀₁₉ "	Section,	Config.,	Config,	"VMC _{UIt} "	"VMC ₂₀₁₉ "	Capacity
Planned Major Arterial Street Segment	(miles)	(miles)	"XSEC _{ULT} "	"LCON _{UIt} "	"LCON ₂₀₁₉ "	(veh-miles)	(veh-miles)	(veh-mile
eer Valley RD (DEE), Cave Creek Rd to Scottsdale Rd	(IIIIC3)	(ITIIIC3)	NOLOULI	LOONIUIT	200112019	(veri filles)	(veri filics)	(veri iiiii
DEE CAP to Cave Creek Rd	0.37	0.37	R	6LD	6LD	20,350	20,350	
DEE Cave Creek Rd to 28th St	0.58	0.58	<u>В</u> В	6LD	6LD	31,900	31,900	
DEE 28th St to Black Mtn Pkwy	1.00	1.00	В	6LD	6LD	55,000	55,000	
DEE Black Mtn Pkwy to 40th St	1.00	1.00	A	6LD	6LD	55,000	55,000	
DEE 40th St to Tatum Blvd	0.74	0.74	A	6LD	4LU-	40,700	20,350	20
DEE Tatum Blvd to Marriott Dr	0.49	0.49	A	6LD	4LD	26,950	17,967	
DEE Marriott Dr to 56th St	0.54	0.54	A	6LD	4LD	29,700	19,800	
DEE	0.61	0.61	A	6LD	6LD	33,550	33,550	
DEE Wash e/o Superblock 1 South to 64th St	0.56	0.00	A	6LD	DNE	30,800	33,330	30
DEE 64th St to Scottsdale Rd	1.09	0.00	A	6LD	DNE	59,950	<u>0</u>	50 59
sert Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd	1.07	0.00	<u> </u>	OLD	DIVE	37,730	U U	37
PK Happy Valley Rd to Cave Creek Rd	0.68	0.68	Α	6LD	6LD	37,400	37,400	
opy Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Pe		0.00	A	OLD	I OLD	37,400	37,400	
VR CAP to 7th St	1.00	1.00	Ι Λ	6LD	2LU-	EE 000	12 750	12
		1.00	AA	6LD	DNE	55,000	13,750	13
VR 7th St to 16th St align.	1.00	0.00	A	4LD	DNE	55,000	0	
VR 16th St align. to e/o Cave Creek Wash	0.24	0.00	AA	4LD 4LD	4LD	8,800	0	
VR e/o Cave Creek Wash to Desert Peak Pkwy	0.92	0.92	Α	4LD	L 4LD	33,733	33,733	
ne Mountain Rd (LNM), Sonoran Desert Dr to Cave Creek Ro				(1.0	DNE	00.050	ام	
NM Sonoran Desert Dr to Black Mtn Blvd	1.47	0.00	<u>A</u>	6LD 6LD	DNE 2LU-	80,850	0	
NM Black Mtn Blvd to 705' w/o Cave Creek Rd	0.66	0.66	A			36,300	9,075	
MM 705' w/o Cave Creek Rd to Cave Creek Rd	0.13	0.13	A	6LD	2LU+	7,150	2,264	
nacle Peak Rd (PIN), Cave Creek Rd to Scottsdale Rd	T			(1.5	L DNE	I	- 1	
IN Cave Creek Rd to Black Mtn Blvd	1.18	1.18	A	6LD	DNE	64,900	0	64
IN Black Mtn Blvd to 2500' w/o Cashman Dr	0.25	0.25	A	6LD	DNE	13,750	0	13
IN 2500' w/o Cashman Dr to 1140' w/o Cashman	0.27	0.27	A	6LD	DNE	14,850	0	14
IN 1140' w/o Cashman Dr to 40th St	0.80	0.80	A	6LD	DNE	44,000	0	44
PIN 40th St to Tatum Blvd	0.81	0.81	A	6LD	DNE	44,550	0	44
PIN Tatum Blvd to 56th St	1.00	1.00	A	6LD	DNE	55,000	0	
PIN 56th St to 64th St	0.50	0.50	A	6LD	DNE	27,500	0	
PIN 64th St to Scottsdale Rd	1.00	1.00	Α	6LD	DNE	55,000	0	
noran Desert Drive (SDD), West limit of fee area (16th St ali								
DD West Limit of Fee Area to Lone Mtn Rd	1.80	1.80	A	6LD	2LU+	99,000	31,350	
DD Lone Mtn Rd to 1.16 mi w/o Cave Creek Rd	0.90	0.90	A	6LD	2LU+	49,500	15,675	
DD 1.16 mi w/o Cave Creek Rd to Cave Creek Rd	1.16	1.16	Α	6LD	2LD	63,800	22,729	
um Blvd (TAT), CAP to Lone Mtn Rd								
AT CAP to Saguaro	0.67	0.67	Α	6LD	4LD	36,850	24,567	12
AT Saguaro to Mayo Blvd	0.21	0.21	Α	6LD	4LD	11,550	7,700	3
AT Mayo Blvd to 420' s/o Loop 101	0.22	0.22	А	6LD	4LU+	12,100	7,663	4
AT 420' s/o Loop 101 to 360' n/o Loop 101	0.15	0.15	Α	6LD	6LD	8,250	8,250	
AT 360' n/o Loop 101 to Deer Valley Rd	0.45	0.45	Α	6LD	6LD	24,750	24,750	
AT Deer Valley Rd to Abraham Dr	0.16	0.16	Α	6LD	5LD	8,800		
AT Abraham Dr to 510' n/o Ranger Dr	1.02	1.02	Α	6LD	4LD	56,100	37,400	
AT 510' n/o Ranger Dr to Pinnacle Peak Rd	0.18	0.18	Α	6LD	4LU+	9,900	6,270	
AT Pinnacle Peak Rd to 40th St	0.55	0.55	A	6LD	4LU-	30,250	15,125	
AT 40th St to Happy Valley Rd	0.35	0.35	A	6LD	4LU-	19,250	9,625	
AT Happy Valley Rd to 280' s/o Prickly Pear Trl	0.71	0.71	A	6LD	4LU-	39,050	19,525	
AT 280' s/o Prickly Pear Trl to Jomax Rd	0.42	0.42	A	6LD	5LD	23,100	19,250	
AT Jomax Rd to Dynamite Blvd	1.00	1.00	A	6LD	4LU-	55,000	27,500	
AT Dynamite Blvd to Dixileta Dr	0.63	0.63	A	6LD	4LD	34,650	23,100	
AT Dixileta Dr to Cave Creek Rd	0.76	0.76	A	6LD	4LD	41,800	27,867	
AT Cave Creek Rd to Black Mtn Pkwy	0.32	0.32	В	6LD	4LD	17,600	11,733	
AT Black Mtn Pkwy to Lone Mtn Rd	0.92	0.00	A	6LD	DNE	50,600	n	
h St (64S), CAP to Happy Valley Rd	0.72	0.00				30,000		
4S CAP to Mayo Blvd	1.00	0.00	D	4LU+	DNE	34,833	٥١	
+	0.43	0.43		6LD	6LD		23,650	
	0.43		A	6LD	DNE	23,650	23,000	25
4S Door Valley Pd to N. boundary of SP 1S		0.00	AA	6LD	DNE	25,850	<u> </u>	25
4S Deer Valley Rd to N. boundary of SB 1S	1.50	0.00	<u>A</u>	6LD	DNE	82,500	<u> </u>	82
AS N. boundary of SB 1S to Pinnacle Peak Rd	0.50	0.00	A			27,500	<u>0</u>	
4S Pinnacle Peak Rd to Happy Valley Rd	0.99	0.00	CM	4LD	DNE	36,300	0	
		59.83						
otal Northern Service Area Capacity	128.66		_	_	_	6,872,886	1,638,657	834,8

Table 8 - 2019 Major Arterial Street Existing and 2020-2029 Planned Capacity - Southwest Service Area

				Ultimate					2020.20
		Ultimate Length, "L _{Ult} "	Existing Length, "L ₂₀₁₉ "	City Standard Cross Section,	Ultimate Lane Config.,	Existing Lane Config,	Ultimate Capacity, "VMC _{Ult} "	Existing Capacity, "VMC ₂₀₁₉ "	2020-29 Planned Additional Capacity
Planne	d Major Arterial Street Segment	(miles)	(miles)	"XSEC _{ULT} "	"LCON _{UIt} "	"LCON ₂₀₁₉ "	(veh-miles)	(veh-miles)	(veh-miles)
19th Ave	(19A), Baseline Rd to Southern Ave								
19A	Baseline Rd to Fremont Rd	0.25	0.25	D	4LU+	4LU+	8,708	8,708	0
19A	Fremont Rd to Vineyard Rd	0.25	0.25	D D	4LU+	4LU+	8,708	8,708	0
19A	Vineyard Rd to Alta Vista Rd	0.25	0.25	D D	4LU+ 4LU+	4LU+ 4LU+	8,708 4,877	8,708	0
19A 19A	Alta Vista Rd to 170' s/o Lynne 170' s/o Lynne Ln to Lynne Ln	0.14 0.03	0.14 0.03	D D	4LU+	4LU+	1,045	4,877 1,045	0
19A	Lynne Ln to Southern Ave	0.08	0.08	D	4LU+	4LU+	2,787	2,787	
	(51A), City Limits to I-10	0.00	0.00		.20.	1201	2// 0/	2//0/	
51A	City Limits to Estrella Dr	0.60	0.60	CM	4LD	2LU-	22,000	8,250	13,750
51A	Estrella Dr to Elliot Rd	1.00	1.00	CM	4LD	2LU-	36,667	13,750	22,917
51A	Elliot Rd to Dobbins Rd	1.00	1.00	CM	4LD	2LU-	36,667	13,750	22,917
51A	Dobbins Rd to South Mountain Ave	0.50	0.50	CM	4LD	4LD 4LD	18,333	18,333	0
51A 51A	South Mountain Ave to 130' s/o Beverly Rd 130' s/o Beverly Rd to Beverly Rd	0.24 0.03	0.24 0.03	CM CM	4LD 4LD	4LD 4LD	8,800 1,100	8,800 1,100	0
51A	Beverly Rd to Baseline Rd	0.24	0.03	CM	6LD	6LD	13,200	13,200	0
51A	Baseline Rd to 905' n/o Baseline Rd	0.17	0.17	CM	6LD	5LD	9,350	7,792	0
51A	905' n/o Baseline Rd to Burgess Ln	0.66	0.66	CM	4LD	4LD	24,200	24,200	0
51A	Burgess Ln to Southern Ave	0.17	0.17	CM	6LD	6LD	9,350	9,350	0
51A	Southern Ave to Broadway Rd	0.78	0.78	CM	4LD	4LD	28,600	28,600	0
51A	Broadway Rd to Salt River Bridge	0.12	0.12	CM	4LD	4LU+	4,400	4,180	0
51A 51A	Salt River Bridge to Broadway Rd Broadway Rd to Lower Buckeye Rd	0.45 0.74	0.45 0.74	CM CM	4LD 4LD	4LU+ 4LU+	16,500 27,133	15,675 25,777	0
51A	Lower Buckeye Rd to N. Limit of Fee Area	0.50	0.50	D	4LU+	4LU+	17,417	17,417	0
51A	S. Limit of Fee Area to Buckeye Rd	0.44	0.44	D	4LU+	4LU+	15,327	15,327	
51A	Buckeye Rd to Van Buren St	1.00	1.00	D	4LU+	4LU+	34,833	34,833	0
51A	Van Buren St to I-10	0.79	0.79	D	5LU+	5LU+	34,398	34,398	0
	(75A), Baseline Rd to Buckeye Rd			•					
75A	Baseline Rd to 1300' n/o Baseline Rd	0.25	0.25	D	4LU+	2LU-	8,708	3,438	5,271
75A	1300' n/o Baseline Rd to 350' n/o Vineyard	0.33	0.33 0.42	D D	4LU+ 4LU+	2LU+ 2LU-	11,413	5,707	5,707
75A 75A	350' n/o Vineyard to Salt River Salt River to Broadway Rd	0.42 0.93	0.42	D	4LU+	DNE	14,514 32,395	5,729 0	8,785 32,395
75A	Broadway Rd to 1325' n/o Broadway Rd	0.25	0.25	CM	4LD	4LU+	9,201	8,708	493
75A	1325' n/o Broadway Rd to 1300' s/o Lower Buckeye Rd	0.50	0.50	CM	4LD	4LU+	18,333	17,417	917
75A	1300' s/o Lower Buckeye Rd to 1060' s/o Lower Buckeye Rd	0.05	0.05	CM	4LD	4LU+	1,833	1,742	92 367
75A	1060' s/o Lower Buckeye Rd to Lower Buckeye Rd	0.20	0.20	CM	4LD	4LU+	7,333	6,967	367
75A	Lower Buckeye Rd to 900' n/o Lower Buckeye Rd	0.17	0.17	D D	4LU+	3LU+	5,922	4,441	1,480
75A	900' n/o Lower Buckeye Rd to 1650' n/o Lower Buckeye Rd	0.14	0.14	D	4LU+	3LU+	4,877	3,658	1,219
75A 75A	1650' n/o Lower Buckeye Rd to Durango St Durango St to Buckeye Rd	0.19 0.48	0.19 0.48	D D	4LU+ 4LU+	4LU+ 4LU+	6,618 16,720	6,618 16,720	0
	(75A), Buckeye Rd to Van Buren St, east half (northbound lar		0.40		410+	4101	10,720	10,720	0
75A	Buckeye Rd to Van Buren St	1.01	1.01	CM-1/2	4LD-1/2	4LU+-1/2	18,517	17,591	0
75th Ave	(75A), Van Buren St to I-10		•						
75A	Van Buren St to Roosevelt St	0.48	0.48	D	4LU+	4LU+	16,720	16,720	0
75A	Roosevelt St to I-10	0.21	0.21	Α	6LD	4LU+	11,550	7,315	0
	Rd (BLR), 75th Ave to 7th Ave 75th Ave to 71st Ave	0.50	0.50	В	6LD	4LD	27,500	10 222	0.147
BLR BLR	71st Ave to 71st Ave 71st Ave to 67th Ave	0.50 0.50	0.50 0.50	В	6LD	3LU+	27,500	18,333 13,063	9,167 14,438
BLR	67th Ave to 63rd Ave	0.44	0.44	В	6LD	3LU+	24,200	11,495	12,705
BLR	63rd Ave to 59th Ave	0.56	0.56	В	6LD	2LU-	30,800	7,700	23,100
BLR	59th Ave to 55th Ave	0.49	0.49	В	6LD	2LU-	26,950	6,738	20,213
BLR	55th Ave to 890' w/o 51st Ave	0.33	0.33	В	6LD	4LD	18,150	12,100	6,050
BLR	890' w/o 51st Ave to 51st Ave	0.17	0.17	В	6LD	4LD	9,350	6,233	3,117
BLR	51st Ave to 47th Ave 47th Ave to 43rd Ave	0.49 0.49	0.49	<u>В</u> В	6LD 6LD	4LU+	26,950	17,068 17,068	9,882
BLR BLR	47th Ave to 43rd Ave 43rd Ave to 1330' w/o 35th Ave	0.49	0.49 0.75	CM	4LD	4LU+ 4LD	26,950 27,500	27,500	9,882 0
BLR	1330' w/o 35th Ave to 35th Ave	0.75	0.75	CM	4LD	4LD	9,167	9,167	0
BLR	35th Ave to 660' w/o 31st Ave	0.38	0.38	CM	4LD	4LU+	13,933	13,237	697
BLR	660' w/o 31st Ave to 125' e/o 29th Dr	0.38	0.38	CM	4LD	4LU+	13,933	13,237	697
BLR	125' e/o 29th Dr to 27th Ave	0.25	0.25	CM	4LD	4LU+	9,167	8,708	458
BLR	27th Ave to 19th Ave	1.00	1.00	CM	4LD	4LU+	36,667	34,833	1,833
BLR	19th Ave to 7th Ave	1.00	1.00	CM	4LD	4LU+	36,667	34,833	1,833

Table 8 - 2019 Major Arterial Street Existing and 2020-2029 Planned Capacity - Southwest Service Area

					. ,			
Planned Major Arterial Street Segment	Ultimate Length, "L _{Ult} " (miles)	Existing Length, "L ₂₀₁₉ " (miles)	Ultimate City Standard Cross Section, "XSEC _{ULT} "	Ultimate Lane Config., "LCON _{Ult} "	Existing Lane Config, "LCON ₂₀₁₉ "	Ultimate Capacity, "VMC _{Ult} " (veh-miles)	Existing Capacity, "VMC ₂₀₁₉ " (veh-miles)	2020-29 Planned Additional Capacity (veh-miles)
Broadway Rd (BWR), 43rd Ave to 23rd Ave	1 000		-	(1.5)	0111	50.000	47.040	0 / 000
BWR 43rd Ave to 310' w/o 35th Ave	0.98	0.98	В	6LD	2LU+	53,900	17,068	36,832
BWR 310' w/o 35th Ave to 35th Ave	0.06	0.06	В	6LD	3LU+	3,300	1,568	1,733
BWR 35th Ave to 27th Ave	1.00	1.00	В	6LD	6LD	55,000	55,000	0
BWR 27th Ave to 23rd Ave	0.49	0.49	В	6LD	6LD	26,950	26,950	0
Buckeye Rd (BR), 107th Ave to 75th Ave, south half (eastbound lanes)		1						
BR 107th Ave to 1980' e/o 107th Ave	0.37	0.37	A-1/2	6LD-1/2	4LU+- ¹ / ₂	10,175	6,444	3,731
BR 1980' e/o 107th Ave to 99th Ave	0.63	0.63	A-1/2	6LD-1/2	4LU+- ¹ / ₂	17,325	10,973	6,353
BR 99th Ave to 91st Ave	1.00	1.00	A-1/2	6LD-1/2	$4LU+-\frac{1}{2}/2$	27,500	17,417	10,083
BR 91st Ave to 83rd Ave	0.98	0.98	A-1/2	6LD-1/2	4LU+- ¹ / ₂	26,950	17,068	9,882
BR 83rd Ave to 1300' e/o 83rd Ave	0.25	0.25	A-1/2	6LD-1/2	4LU+- ¹ / ₂	6,875	4,354	2,521
BR 1300' e/o 83rd Ave to 79th Ave	0.25	0.25	A-1/2	6LD-1/2	4LU+- ¹ / ₂	6,875	4,354	2,521
BR 79th Ave to 75th Ave	0.50	0.50	A-1/2	6LD-1/2	4LU+- ¹ / ₂	13,750	8,708	5,042
Buckeye Rd (BR), 75th Ave to 43rd Ave - Full Street								
BR 75th Ave to 69th Ave	0.75	0.75	D	4LU+	4LU+	26,125	26,125	0
BR 69th Ave to 300' w/o 67th Ave	0.19	0.19	D	4LU+	4LU+	6,618	6,618	0
BR 300' w/o 67th Ave to 67th Ave	0.06	0.06	D	4LU+	4LU+	2,090	2,090	0
BR 67th Ave to 530' e/o 67th Ave	0.10	0.10	D	4LU+	4LU+	3,483	3,483	0
BR 530' e/o 67th Ave to 340' w/o 65th Ave	0.15	0.15	D	4LU+	4LU-	5,225	4,125	1,100
BR 340' w/o 65th Ave to 63rd Ave	0.24	0.24	D	4LU+	4LU-	8,360	6,600	1,760
BR 63rd Ave to 1325' w/o 59th Ave	0.25	0.25	D	4LU+	4LU-	8,708	6,875	1,833
BR 1325' w/o 59th Ave to 59th Ave	0.25	0.25	D	4LU+	4LU-	8,708	6,875	1,833
BR 59th Ave to 55th Ave	0.50	0.50	D	4LU+	4LU+	17,417	17,417	0
BR 55th Ave to 51st Ave	0.50	0.50	D	4LU+	4LU+	17,417	17,417	<u>_</u> 0
BR 51st Ave to 43rd Ave	1.00	1.00	D	4LU+	4LU+	34,833	34,833	0
Dobbins Rd, 7th Ave to Carver Rd (W Limit of Fee Area)	1.00	1.00		7201	7201	37,000	34,033	
DBN 7th Ave to 135' w/o 10th Dr	0.25	0.25	С	4LU+	2LU+	8,708	4,354	0
DBN 135' w/o 10th Dr to 470' e/o 17th Dr	0.40	0.40	C	4LU+	2LU-	13,933	5,500	0
DBN 470' e/o 17th Ave to 17th Ave	0.09	0.40	C	4LU+	2LU+	3,135	1,568	0
DBN 17th Ave to 19th Ave	0.25	0.09		4LU+	2LU-	8,708	3,438	0
DBN 19th Ave to 27th Ave	1.00	1.00	C C	4LU+	2LU-	34,833	13,750	
DBN 27th Ave to 33rd Ave	0.74	0.74	C	4LU+ 4LU+	2LU- 2LU-		10,175	1F (02
	0.74			4LU+ 4LU+	2LU- 2LU+	25,777 8,708	4,354	15,602
DBN 33rd Ave to 35th Ave DBN 35th Ave to 35th Glen	0.25	0.25 0.10	C	4LU+ 4LU+	2LU+ 2LU+	8,708 3,483	4,354 1,742	4,354
			C C					1,742
DBN 35th Glen to 39th Ave Align	0.40 0.50	0.40	<u> </u>	4LU+ 4LU+	2LU- 2LU+	13,933	5,500	8,433
DBN 39th Ave Align to 43rd Ave		0.50	С			17,417	8,708	8,708
DBN 43rd Ave to 48th Dr	0.65	0.65	C	4LU+	2LU+ 3LU+	22,642	11,321	11,321
DBN 48th Dr to 51st Ave	0.35	0.35	C	4LU+		12,192	9,144	3,048
DBN 51st Ave to 270' w/o 53rd Ave	0.31	0.31	С	4LU+	3LU+	10,798	8,099	2,700
DBN 270' w/o 53rd Ave to 360' w/o 56th Glen	0.48	0.48	С	4LU+	2LU+	16,720	8,360	8,360
DBN 360' w/o 56th Glen to 59th Ave	0.20	0.20	С	4LU+	2LU-	6,967	2,750	4,217
DBN 59th Ave to 67th Ave	0.96	0.96	С	4LU+	2LU-	33,440	13,200	20,240
DBN 67th Ave to Carver (W Limit of Fee Area)	0.29	0.29	С	4LU+	2LU-	10,102	3,988	6,114
Total Southwest Service Area Capacity	41.74	40.80	-	-	-	1,582,228	1,121,959	410,439

	Table 9 - 2020-2029 N	9 Major Arterial Street Infrastructure Improvements Plan (IIP) - Northern Service Area								
Street	Segment	Ultimate City Standard Cross Section, "XSEC _{ULT} "	Ultimate Lane Config., "LCON _{UIt} "	Ultimate Length, "L _{Ult} " (miles)	Percent Physically Complete (pavement & concrete in place)	Percent Functionally Complete (striped number of thru lanes)	Preliminary Estimate of Ultimate Needed Roadway Construction Cost	Value of Existing Roadway	2020-29 IIP Planned Improvement	Roadway Construction Cost Accounted for in 2020-2029 Impact Fee
39th Av	re/Vision Way (39A), Pioneer Rd to Anthem Way Pioneer Road to Daisy Mtn Rd	С	4LU+	1 25	0.0%	0.0%	\$4,153,698	\$0	No	\$(
39A 39A	Daisy Mtn Rd to 2640' s/o Anthem Way	C	4LU+ 4LU+	1.35 2.46	0.0%	0.0%	\$4,153,698 \$7,568,961	\$0	No	\$0
39A	2640' south to Anthem Way	C	4LU+	0.50	100.0%	100.0%	\$0	\$1,372,796	No	\$(
	re (43A), Dixileta Dr to Carefree Hwy	L	Į.			1				•
43A	Dixileta Dr to Dove Valley Rd	А	6LD	1.89	0.0%	0.0%	\$7,460,007	\$0	No	\$(
43A	Dove Valley Rd to Carefree Hwy	Α	6LD	1.00	0.0%	0.0%	\$3,947,094	\$0	No	\$0
51St AV	e (51A), Inspiration Pkwy (Jomax Rd align.) to Pyramid Peak Pk Jomax Rd to CAP	A A	6LD	0.83	77.8%	66.7%	\$710,477	\$1,510,075	No	I \$1
51A	CAP to Dixileta Dr	A	6LD	1.57	0.0%	0.0%	\$6,196,937	\$0	No	\$(
51A	Dixileta Dr to Dove Valley Rd	А	6LD	1.76	0.0%	0.0%	\$6,946,885	\$0	No	\$(
51A	Dove Valley Rd to Carefree Hwy	А	6LD	1.00	0.0%	0.0%	\$3,947,094	\$0	No	\$(
51A	Carefree Hwy to Pioneer Rd	A	6LD	2.00	0.0%	0.0%	\$7,894,187	\$0 \$0	No	\$1 \$1
51A Anthom	Pioneer Rd to Pyramid Peak Pkwy n Way (ANT), Avenue A to I-17	A	6LD	1.83	0.0%	0.0%	\$7,223,181	\$0	No	31
ANT	Avenue A to New River Rd	В	6LD	1.16	0.0%	0.0%	\$4,254,046	\$0	No	\$1
ANT	New River Rd to Avenue B	В	6LD	0.67	0.0%	0.0%	\$2,457,078	\$0	No	SI SI
ANT	Avenue B to Pyramid Peak Pkwy	В	6LD	0.67	0.0%	0.0%	\$2,457,078	\$0	No	\$1
ANT	Pyramid Peak Pkwy to 43rd Ave	В	6LD	0.50	100.0%	66.7%	\$0	\$906,045	No	\$
ANT	43rd Ave to I-17 A (AVA), Desert Hills Dr (@ west limit of fee area) to New River	B Bd (at parth lin	6LD	0.31	100.0%	100.0%	\$0	\$851,133	No	\$1
AVA	New River Rd to Desert Hills Dr	B	6LD	1.00	0.0%	0.0%	\$3,667,281	\$0	No	\$0
AVA	Desert Hills Dr to Anthem Wy	В	6LD	2.99	0.0%	0.0%	\$10,965,170	\$0	No	SI SI
AVA	Anthem Wy to Jenny Lin Rd	В	6LD	2.00	0.0%	0.0%	\$7,334,562	\$0	No	\$1
AVA	Jenny Lin Rd to New River Rd	В	6LD	1.33	0.0%	0.0%	\$4,877,484	\$0	No	\$1
	C (AVC), New River Rd to Pioneer Rd		6LD	1.00	0.00/	0.00/	62.047.004	60	No	
AVC	New River Rd to Pioneer Rd e Hwy (CFH), west limit of fee area (@ +/- 73rd Ave align.) to Pa	A aloma Pkww	OLD	1.00	0.0%	0.0%	\$3,947,094	\$0	No	\$1
CFH	I-17 to North Valley Pkwy	A	6LD	0.36	77.8%	83.3%	\$315,767	\$823,677	Yes	\$315,76
CFH	North Valley Pkwy to Paloma Pkwy	А	6LD	1.11	66.7%	83.3%	\$1,460,425	\$2,553,400	Yes	\$1,460,425
	fountain Dr (DSY), west limit of fee area (@ Avenue A) to I-17									
DSY	Avenue A to New River Rd	A	6LD	1.17	0.0%	0.0%	\$4,618,100	\$0	No	\$(
DSY DSY	New River Rd to Avenue B Avenue B to Pyramid Peak Pkwy	A	6LD 6LD	0.50 1.00	0.0%	0.0% 0.0%	\$1,973,547 \$3,947,094	\$0 \$0	No No	\$(\$(
DSY	Pyramid Peak Pkwy to City Limit	A A	6LD-1/2	1.50	0.0%	0.0%	\$5,920,640	\$0	Yes	\$5,920,64
DSY	City Limit to I-17	А	6LD-1/2	0.43	0.0%	0.0%	\$1,697,250	\$0	Yes	\$1,697,25
	Dr (DXD), CAP (@ +/- 73rd Ave align.) to I-17									
DXD	CAP to 67th Ave	A	6LD	0.72	0.0%	0.0%	\$2,841,907	\$0 \$0	No	\$(
DXD DXD	67th Ave to 51st Ave 51st Ave to I-17	A A	6LD 6LD	2.05 2.50	0.0%	0.0% 0.0%	\$8,091,542 \$9,867,734	\$0 \$0	No No	\$(\$(
	in Rd (JLN), Avenue A to I-17	^	OLD	2.30	0.070	0.076	\$7,007,734	\$0	NO	ال
JLN	Avenue A to New River Rd	В	6LD	0.83	0.0%	0.0%	\$3,043,843	\$0	No	\$1
JLN	New River Rd to I-17	В	6LD	1.12	0.0%	0.0%	\$4,107,355	\$0	No	\$(
	ver Rd (NRV), Cloud Rd to I-17 (north of Jenny Lin Rd)		415	1.00	22.20	0.00/	40.040.470	40	NI-	
NRV NRV	Cloud Rd to Avenue C Avenue C to Avenue A	B B	6LD 6LD	1.00 1.00	22.2% 22.2%	0.0% 0.0%	\$2,860,479 \$2,860,479	\$0 \$0	No No	\$0
NRV	Avenue A to Pioneer Rd	A	6LD	0.83	22.2%	0.0%	\$2,565,611	\$0	No	
NRV	Pioneer Rd to Desert Hills Dr	A	6LD	0.67	22.2%	0.0%	\$2,052,489	\$0	No	\$(\$(
NRV	Desert Hills Dr to Daisy Mtn Dr	A	6LD	1.67	22.2%	0.0%	\$5,131,222	\$0	No	\$
NRV	Daisy Mtn Dr to Anthem Wy	A	6LD	1.50	22.2%	0.0%	\$4,618,100	\$0	No	\$
NRV NRV	Anthem Wy to Jenny Lin Rd Jenny Lin Rd to I-17	A A	6LD 6LD	0.83 1.50	22.2% 22.2%	0.0% 0.0%	\$2,565,611 \$4,618,100	\$0 \$0	No No	\$
	/alley Pkwy (NVP), CAP to Carefree Hwy	^	ULD	1.30	22.270	0.0%	\$4,010,100	20	IVU	1 3
NVP	Jomax Rd to 500' s/o CAP	А	6LD	0.15	77.8%	63.3%	\$118,413	\$274,559	No	\$1
NVP	500' s/o CAP to CAP	A	6LD	0.10	100.0%	83.3%	\$0 \$0	\$219,647	No	\$
NVP	CAP to Quail Track Dr	A	6LD	0.12	100.0%	83.3%		\$274,559	No	\$
NVP NVP	Quail Track Dr to Copperhead Tr	A	6LD	0.58	100.0%	100.0%	\$0 \$552,593	\$1,592,443	No No	\$ \$
	Copperhead Tr to 660' n/o Casino Ave	A A	6LD 6LD	0.61 0.74	77.8% 100.0%	82.7% 83.3%	\$552,593 \$0	\$1,400,252 \$1,702,267	No No	\$
	660' n/o Casino Ave to Dixileta Dr		0.0	0.74	33.3%	50.0%	\$1,855,134	\$988,413	Yes	\$1,855,13
NVP NVP	660' n/o Casino Ave to Dixileta Dr Dixileta Dr to 200' s/o Rancho Tierra	A	6LD	0.71						\$1,065,71
NVP			6LD	0.40	33.3%	66.7%	\$1,065,715	\$741,310	Yes	
NVP NVP NVP	Dixileta Dr to 200' s/o Rancho Tierra 200' s/o Rancho Tierra to Sonoran Desert Dr Sonoran Desert Dr to Dove Valley Rd	A A A	6LD 6LD	0.40 1.12	33.3% 77.8%	66.7%	\$986,773	\$2,059,194	Yes	\$986,77
NVP NVP NVP NVP	Dixileta Dr to 200° s/o Rancho Tierra 200° s/o Rancho Tierra to Sonoran Desert Dr Sonoran Desert Dr to Dove Valley Rd Dove Valley Rd to 27th Dr	A A A	6LD 6LD 6LD	0.40 1.12 0.26	33.3% 77.8% 77.8%	66.7% 66.7%	\$986,773 \$236,826	\$2,059,194 \$466,751	Yes No	\$986,77 \$
NVP NVP NVP NVP NVP	Dixileta Dr to 200' s/o Rancho Tierra 200' s/o Rancho Tierra to Sonoran Desert Dr Sonoran Desert Dr to Dove Valley Rd Dove Valley Rd to 27th Dr 27th Dr to exist. north end of road	A A A A	6LD 6LD 6LD 6LD	0.40 1.12 0.26 0.41	33.3% 77.8% 77.8% 77.8%	66.7% 66.7% 66.7%	\$986,773 \$236,826 \$355,238	\$2,059,194 \$466,751 \$768,766	Yes No No	\$986,77 \$
NVP NVP NVP NVP NVP NVP	Dixileta Dr to 200' s/o Rancho Tierra 200' s/o Rancho Tierra to Sonoran Desert Dr Sonoran Desert Dr to Dove Valley Rd Dove Valley Rd to 27th Dr 27th Dr to exist. north end of road Exist. north end of road to Carefree Hwy	A A A	6LD 6LD 6LD	0.40 1.12 0.26	33.3% 77.8% 77.8%	66.7% 66.7%	\$986,773 \$236,826	\$2,059,194 \$466,751	Yes No	\$986,77 \$
NVP NVP NVP NVP NVP NVP NVP Pioneer	Dixileta Dr to 200' s/o Rancho Tierra 200' s/o Rancho Tierra to Sonoran Desert Dr Sonoran Desert Dr to Dove Valley Rd Dove Valley Rd to 27th Dr 27th Dr to exist. north end of road Exist. north end of Cadfere Hwy Rd (P10), New River Rd to 1-17	A A A A	6LD 6LD 6LD 6LD 6LD	0.40 1.12 0.26 0.41 0.59	33.3% 77.8% 77.8% 77.8% 0.0%	66.7% 66.7% 66.7% 0.0%	\$986,773 \$236,826 \$355,238 \$2,328,785	\$2,059,194 \$466,751 \$768,766 \$0	Yes No No Yes	\$986,77 \$ \$ \$2,328,78
NVP NVP NVP NVP NVP NVP	Dixileta Dr to 200' s/o Rancho Tierra 200' s/o Rancho Tierra to Sonoran Desert Dr Sonoran Desert Dr to Dove Valley Rd Dove Valley Rd to 27th Dr 27th Dr to exist. north end of road Exist. north end of road to Carefree Hwy	A A A A	6LD 6LD 6LD 6LD	0.40 1.12 0.26 0.41	33.3% 77.8% 77.8% 77.8%	66.7% 66.7% 66.7%	\$986,773 \$236,826 \$355,238	\$2,059,194 \$466,751 \$768,766 \$0 \$0 \$0	Yes No No	\$986,77 \$ \$ \$2,328,76
NVP NVP NVP NVP NVP NVP NVP Pioneer PIO PIO	Dixileta Dr to 200' s/o Rancho Tierra 200' s/o Rancho Tierra to Sonoran Desert Dr Sonoran Desert Dr to Dove Valley Rd Dove Valley Rd to 27th Dr 27th Dr to exist. north end of road Exist. north end of road to Carefree Hwy Rd (PlO), New River Rd to 1-17 New River Rd to Avenue C Avenue C to Cloud Rd Cloud Rd to Pyranid Peak Pkwy	A A A A A A B B B B	6LD 6LD 6LD 6LD 6LD 6LD 6LD 6LD	0.40 1.12 0.26 0.41 0.59 1.00 0.50 0.76	33.3% 77.8% 77.8% 77.8% 0.0% 0.0% 0.0% 0.0%	66.7% 66.7% 66.7% 0.0% 0.0% 0.0% 0.0%	\$986,773 \$236,826 \$355,238 \$2,328,785 \$3,667,281 \$1,833,640 \$2,787,134	\$2,059,194 \$466,751 \$768,766 \$0 \$0 \$0 \$0	Yes No No No Yes No No No No No No No	\$986,77 \$ \$ \$2,328,78 \$ \$ \$ \$
NVP NVP NVP NVP NVP NVP Pioneer PIO PIO	Dixileta Dr to 200' s/o Rancho Tierra 200' s/o Rancho Tierra to Sonoran Desert Dr Sonoran Desert Dr to Dove Valley Rd Dove Valley Rd to 27th Dr 27th Dr to exist. north end of road Exist. north end of road to Carefree Hwy Rd (PIO), New River Rd to I-17 New River Rd to Avenue C Avenue C to Cloud Rd	A A A A A A B B	6LD 6LD 6LD 6LD 6LD 6LD	0.40 1.12 0.26 0.41 0.59	33.3% 77.8% 77.8% 77.8% 0.0% 0.0%	66.7% 66.7% 66.7% 0.0% 0.0%	\$986,773 \$236,826 \$355,238 \$2,328,785 \$3,667,281 \$1,833,640	\$2,059,194 \$466,751 \$768,766 \$0 \$0 \$0	Yes No No Yes No No Yes	\$986,77

	10010 7 2020 20271	viajor Arte	riai Street	inirastruc	ture impro	ovements Pia	n (IIP) - Northe	ern Service Ar	ea	
Street	Segment	Ultimate City Standard Cross Section, "XSEC _{ULT} "	Ultimate Lane Config., "LCON _{UIt} "	Ultimate Length, "L _{Ult} " (miles)	Percent Physically Complete (pavement & concrete in place)	Percent Functionally Complete (striped number of thru lanes)	Preliminary Estimate of Ultimate Needed Roadway Construction Cost	Value of Existing Roadway	2020-29 IIP Planned Improvement	Roadway Construction Cost Accounted for in 2020-2029 Impact Fee
Pyramio PYR	id Peak Pkwy (PYR), southwest corner of fee area (@ +/-67th Av SW Limit of fee area to 64th Ave			0.10	77.8%	44 70/	\$146,691	\$220.471	No	*0
PYR	64th Ave to Cavedale Dr	B B	6LD 6LD	0.18 0.13	77.8%	66.7% 66.7%	\$146,691	\$329,471 \$247,103	No No	\$0 \$0
PYR	Cavedale Dr to 400' n/o Maya Wy	В	6LD	0.20	66.7%	66.7%	\$256,710	\$356,927	No	\$0
PYR	410' North of Maya Wy to 190' s/o of Bent Tree Dr	В	6LD	0.29	66.7%	63.3%	\$366,728	\$494,206	No	\$0
PYR PYR	190' s/o Bent Tree Dr to Dynamite Blvd Dynamite Blvd to Brookhart Wy	В	6LD	0.50	77.8% 77.8%	66.7%	\$403,401	\$906,045 \$411,839	No	\$0
PYR	Brookhart Wy to CAP	B B	6LD 6LD	0.23 0.70	100.0%	66.7% 100.0%	\$183,364 \$0	\$411,839 \$1,921,914	No No	\$0 \$0
PYR	CAP to Dixileta	В	6LD	0.77	0.0%	0.0%	\$2,823,806	\$0	No	\$0
PYR	Dixileta Dr to Dove Valley Rd	В	6LD	1.44	0.0%	0.0%	\$5,280,885	\$0	No	\$0
PYR	Dove Valley Rd to Carefree Hwy	В	6LD	0.98	0.0%	0.0%	\$3,593,935	\$0	No	\$0
PYR PYR	Carefree Hwy to Pioneer Rd Pioneer Rd to 51st Ave	B B	6LD 6LD	3.24 2.33	0.0%	0.0%	\$11,881,990 \$8,544,765	\$0 \$0	No No	\$0 \$0
PYR	51st Ave to Daisy Mtn Dr	B	6LD	0.50	0.0%	0.0%	\$1,833,640	\$0	No	\$0
PYR	Daisy Mtn Dr to Anthem Wy	В	6LD	1.50	0.0%	0.0%	\$2,059,194	\$0	Yes	\$2,059,194
	an Desert Dr (SDD), I-17 to east limit of fee area (@ +/- 16th St a				400.00					
SDD SDD	I-17 to North Valley Pkwy North Valley Pkwy to 1250' e/o NVP	A	6LD 6LD	1.02 0.25	100.0% 44.4%	100.0% 31.7%	\$0 \$552,593	\$2,800,503 \$219,647	No Yes	\$0 \$552,593
SDD	1250' e/o NVP to Paloma Pkwy	A	6LD	0.25	44.4%	31.7%	\$552,593	\$219,647	Yes	\$552,593 \$552,593
SDD	Paloma Pkwy to Dove Valley Rd.	А	6LD	3.05	44.4%	0.0%	\$4,187,027	\$0	Yes	\$4,187,027
	(7S), CAP to Happy Valley Rd		1							
7S Black M	CAP to Happy Valley Rd Mountain Blvd (BMB), Loop 101 to Cave Creek Rd	В	6LD	0.51	22.2%	25.0%	\$1,466,912	\$356,927	No	\$0
BIACK IV	1,150' s/o Mayo Blvd to Mayo Blvd	A	4LD	0.22	100.0%	100.0%	\$0	\$604,030	No	\$0
BMB	Mayo Blvd to Deer Valley Rd	A	6LD	0.24	100.0%	100.0%	\$0	\$658,942	No	\$0
BMB	Deer Valley Rd to Rough Rider Rd	A	6LD	0.50	100.0%	100.0%	\$0	\$1,372,796	No	\$0
BMB	Rough Rider Rd to Pinnacle Peak Rd	A	6LD	0.50	44.4%	31.7%	\$1,105,186	\$439,295	Yes	\$1,105,186
BMB BMB	Pinnacle Peak Rd to Happy Valley Rd Happy Valley Rd to 885' s/o Briles Rd	A A	6LD 6LD	1.08 0.73	0.0%	0.0% 0.0%	\$4,262,861 \$2,881,378	\$0 \$0	Yes Yes	\$4,262,861 \$2,881,378
BMB	885' s/o Briles Rd to Jomax Rd	A	6LD	0.42	33.3%	25.0%	\$1,105,186	\$302,015	No	\$2,001,370
BMB	Jomax Rd to Cave Creek Rd (full street)	A	6LD	0.68	0.0%	0.0%	\$2,684,024	\$0	No	\$0
	creek Rd (CAV), CAP to North City limits									
CAV	CAP to Deer Valley Rd	В	6LD	0.48	77.8%	66.7%	\$403,401	\$878,589	Yes	\$403,401
CAV	Deer Valley Rd to Cielo Grande Ave Cielo Grande Ave to 835' n/o Cielo Grande Ave	B B	6LD 6LD	0.50 0.16	77.8% 77.8%	83.3% 83.3%	\$403,401 \$146,691	\$1,153,148 \$356,927	Yes Yes	\$403,401 \$146,691
CAV	835' n/o Cielo Grande to 405' s/o Pinnacle Peak	В	6LD	0.14	77.8%	83.3%	\$110,018	\$329,471	Yes	\$110,018
CAV	405' s/o Pinnacle Peak to Pinnacle Peak Rd	В	6LD	0.08	77.8%	83.3%	\$73,346	\$192,191	Yes	\$73,346
CAV	Pinnacle Peak Rd to HVR alignment	В	6LD	1.00	77.8%	83.3%	\$806,802	\$2,278,841	Yes	\$806,802
CAV	HVR alignment to 2400' s/o Jomax Rd	В	6LD	0.57	77.8%	66.7%	\$476,747	\$1,043,325	Yes	\$476,747
CAV	2400' s/o of Jomax Rd to Jomax Rd Jomax Rd to Black Mtn Pkwy	B B	6LD 6LD	0.45 0.62	77.8% 55.6%	66.7% 66.7%	\$366,728 \$1,026,839	\$823,677 \$1,125,692	No No	\$0 \$0
CAV	Black Mtn Pkwy to Dynamite Blvd	В	6LD	0.51	55.6%	66.7%	\$843,475	\$933,501	No	\$0
CAV	Dynamite Blvd to 290' n/o Peak View Rd	В	6LD	0.61	55.6%	66.7%	\$990,166	\$1,125,692	No	\$0
CAV	290' n/o Peak View Rd to Tatum Blvd	В	6LD	0.53	77.8%	66.7%	\$440,074	\$960,957	No	\$0
CAV	Tatum Blvd to Desert Willow Pky	B	6LD 6LD	0.85 0.25	66.7%	66.7%	\$1,026,839	\$1,564,987	No No	\$0
CAV	Desert Willow Pky to Lone Mtn Rd Lone Mtn Rd to 925' n/o Lone Mtn Rd	B B	6LD	0.25	66.7% 100.0%	66.7% 66.7%	\$293,382 \$0	\$466,751 \$329,471	No	\$0 \$0
CAV	925' n/o Lone Mtn Rd to Ashler Hills Dr	В	6LD	0.39	55.6%	66.7%	\$623,438	\$713,854	No	\$0
CAV	Ashler Hills Dr to Ocupado Dr	В	6LD	0.26	55.6%	66.7%	\$440,074	\$466,751	No	\$0
CAV	Ocupado Dr to Rancho Paloma	В	6LD	0.18	88.9%	66.7%	\$73,346	\$329,471	No	\$0
CAV	Rancho Paloma to 300' s/o Smokehouse Trl 300' s/o Smokehouse Trl to City Limits	B B	6LD 6LD	0.40	55.6%	66.7%	\$660,111	\$741,310	No No	\$0 \$0
	/alley RD (DEE), Cave Creek Rd to Scottsdale Rd	В	OLD	0.21	55.6%	66.7%	\$330,055	\$384,383	INO	\$0
DEE	CAP to Cave Creek Rd	В	6LD	0.37	100.0%	100.0%	\$0	\$1,015,869	No	\$0
DEE	Cave Creek Rd to 28th St	В	6LD	0.58	100.0%	100.0%	\$0	\$1,592,443	No	\$0
DEE	28th St to Black Mtn Pkwy	В	6LD	1.00	100.0%	100.0%	\$0	\$2,745,591	No	\$0
DEE	Black Mtn Pkwy to 40th St 40th St to Tatum Blvd	A	6LD 6LD	1.00 0.74	100.0% 55.6%	100.0% 50.0%	\$0 \$1,302,541	\$2,745,591 \$1,015,869	No Yes	\$0 \$1,302,541
DEE			OLD	0.74		30.070	\$1,50Z,341	Ψ1,010,009	103	\$1,502,541
	Tatum Blvd to Marriott Dr		6LD	0.49	100.0%	66.7%	\$0	\$906,045		\$0
DEE		A A	6LD 6LD	0.49 0.54		66.7% 66.7%	\$0 \$0	\$906,045 \$988,413	No No	\$0 \$0
	Tatum Blvd to Marriott Dr	A			100.0%				No	
DEE DEE DEE	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St	A A	6LD 6LD 6LD	0.54 0.61 0.56	100.0% 100.0%	66.7%	\$0 \$0 \$2,210,372	\$988,413 \$1,674,811 \$0	No No No Yes	\$0 \$0 \$2,210,372
DEE DEE DEE	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd	A A A	6LD 6LD	0.54 0.61	100.0% 100.0% 100.0%	66.7% 100.0%	\$0 \$0	\$988,413 \$1,674,811	No No No	\$0 \$0
DEE DEE DEE DEE DEE Desert	Taturn Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd	A A A A	6LD 6LD 6LD 6LD	0.54 0.61 0.56 1.09	100.0% 100.0% 100.0% 0.0% 0.0%	66.7% 100.0% 0.0% 0.0%	\$0 \$0 \$2,210,372 \$4,302,332	\$988,413 \$1,674,811 \$0 \$0	No No No Yes Yes	\$0 \$0 \$2,210,372 \$4,302,332
DEE DEE DEE DEE DEE Desert DPK	Taturn Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd	A A A A A	6LD 6LD 6LD	0.54 0.61 0.56	100.0% 100.0% 100.0% 0.0%	66.7% 100.0% 0.0%	\$0 \$0 \$2,210,372	\$988,413 \$1,674,811 \$0	No No No Yes	\$0 \$0 \$2,210,372
DEE DEE DEE DEE Desert DPK Happy	Taturn Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy	A A A A A A A A A A A A A A A A A A A	6LD 6LD 6LD 6LD	0.54 0.61 0.56 1.09	100.0% 100.0% 100.0% 0.0% 0.0%	66.7% 100.0% 0.0% 0.0%	\$0 \$0 \$2,210,372 \$4,302,332	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002	No No No Yes Yes	\$0 \$0 \$2,210,372 \$4,302,332
DEE DEE DEE DEE Desert DPK Happy \(\) HVR	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St	A A A A A A A A A A A A A A A A A A A	6LD 6LD 6LD 6LD 6LD	0.54 0.61 0.56 1.09 0.68	100.0% 100.0% 100.0% 0.0% 0.0% 100.0%	66.7% 100.0% 0.0% 0.0% 100.0%	\$0 \$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002 \$1,372,796	No No No Yes Yes	\$0 \$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547
DEE DEE DEE DESETT DPK Happy HVR HVR	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align.	A A A A A A A A	6LD 6LD 6LD 6LD 6LD 6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00	100.0% 100.0% 100.0% 0.0% 0.0% 100.0%	66.7% 100.0% 0.0% 0.0% 100.0%	\$0 \$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002 \$1,372,796	No No No Yes Yes No No No	\$0 \$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$0
DEE DEE DEE DEE Desert DPK Happy \(\) HVR	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St	A A A A A A A A A A A A A A A A A A A	6LD 6LD 6LD 6LD 6LD	0.54 0.61 0.56 1.09 0.68	100.0% 100.0% 100.0% 0.0% 0.0% 100.0%	66.7% 100.0% 0.0% 0.0% 100.0%	\$0 \$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002 \$1,372,796	No No No Yes Yes	\$0 \$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547
DEE DEE DEE DEE Desert DPK Happy HVR HVR HVR HVR	Taturn Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash	A A A A A A A A A A A A A A A A A A A	6LD 6LD 6LD 6LD 6LD 6LD 6LD 6LD 6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24	100.0% 100.0% 100.0% 0.0% 0.0% 100.0% 50.0%	66.7% 100.0% 0.0% 0.0% 100.0% 50.0% 0.0%	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002 \$1,372,796 \$0 \$0	No No No No Yes Yes No No No	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$0 \$0
DEE DEE DEE DEE Desert DPK Happy HVR HVR HVR HVR	Taturn Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash e/o Cave Creek Wash to Desert Peak Pkwy	A A A A A A A A A A A A A A A A A A A	6LD 6LD 6LD 6LD 6LD 6LD 6LD 6LD 6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24	100.0% 100.0% 100.0% 0.0% 0.0% 100.0% 50.0%	66.7% 100.0% 0.0% 0.0% 100.0% 50.0% 0.0%	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002 \$1,372,796 \$0 \$0	No No No No Yes Yes No No No	\$0 \$2,210,372 \$4,302,332 \$1,973,547 \$0 \$0 \$0 \$0
DEE DEE DEE DEE DESET DPK Happy HVR HVR HVR LONE M LNM	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash e/o Cave Creek Wash to Desert Peak Pkwy Jountain Rd (LNM), Sonoran Desert Dr to Cave Creek Rd Sonoran Desert Dr to Black Mtn Blvd Black Mtn Blvd to 705' w/o Cave Creek Rd	A A A A A A A A A A A A A A A A A A A	6LD 6LD 6LD 6LD 6LD 6LD 6LD 4LD 4LD 6LD 6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24 0.92 1.47 0.66	100.0% 100.0% 100.0% 0.0% 0.0% 100.0% 50.0%	66.7% 100.0% 0.0% 0.0% 100.0% 50.0% 100.0%	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302 \$0 \$5,802,228 \$1,736,721	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002 \$1,372,796 \$0 \$0 \$2,525,944 \$0 \$466,751	No No No No No Yes Yes No	\$0 \$2,210,372 \$4,302,332 \$1,973,547 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
DEE DEE DEE DEE DESET DPK HAPPY HVR HVR HVR LONE M LNM LNM	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash e/o Cave Creek Wash to Desert Peak Pkwy Jountain Rd (LNM), Sonoran Desert Dr to Cave Creek Rd Sonoran Desert Dr to Black Mtn Blvd Black Mtn Blvd to 705' w/o Cave Creek Rd 705' w/o Cave Creek Rd to Cave Creek Rd	A A A A A A A A A A A A A A A A A A A	6LD 6LD 6LD 6LD 6LD 6LD 6LD 6LD 4LD 4LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24 0.92	100.0% 100.0% 100.0% 100.0% 0.0% 100.0% 50.0% 0.0% 0.0%	66.7% 100.0% 0.0% 0.0% 100.0% 50.0% 100.0%	\$0 \$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302 \$0 \$5,802,228	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002 \$1,372,796 \$0 \$0 \$2,525,944	No No No No Yes Yes No No No No No No No No No	\$0 \$2,210,372 \$4,302,332 \$1,973,547 \$0 \$0 \$0 \$0
DEE DEE DEE DEE DES DES DES DES DES DES	Taturn Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash e/o Cave Creek Wash to Desert Peak Pkwy Alountain Rd (LIMM), Sonoran Desert Dr to Cave Creek Rd Sonoran Desert Dr to Black Mtn Blvd Black Mtn Blvd to 705' w/o Cave Creek Rd 705' w/o Cave Creek Rd to Cave Creek Rd Ide Peak Rd (PIN), Cave Creek Rd to Scottsdale Rd	A A A A A A A A	6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24 0.92 1.47 0.66 0.13	100.0% 100.0% 100.0% 0.0% 0.0% 100.0% 50.0% 0.0% 0.0% 0.0% 33.3% 77.8%	66.7% 100.0% 0.0% 0.0% 100.0% 100.0% 0.0% 0.	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302 \$0 \$5,802,228 \$1,736,721 \$118,413	\$988,413 \$1,674,811 \$0 \$1,867,002 \$1,372,796 \$0 \$0 \$2,525,944 \$0 \$466,751 \$109,824	No	\$0 \$0 \$2,210,372 \$4,302,332 \$1,973,547 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
DEE DEE DEE DESET DPK Happy HVR HVR HVR LONE LNM LNM Pinnacl PIN	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash e/o Cave Creek Wash to Desert Peak Pkwy Jountain Rd (LNM), Sonoran Desert Dr to Cave Creek Rd Sonoran Desert Dr to Black Mtn Blvd Black Mtn Blvd to 705 w/o Cave Creek Rd Ie Peak Rd (PIN), Cave Creek Rd to Scottsdale Rd Cave Creek Rd to Black Mtn Blvd	A A A A A A A A A A A A A A A A A A A	6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24 0.92 1.47 0.66 0.13	100.0% 100.0% 0.0% 0.0% 100.0% 100.0% 50.0% 0.0% 0.0% 0.0% 33.3% 77.8%	66.7% 100.0% 0.0% 0.0% 100.0% 50.0% 0.0% 100.0% 31.7% 0.0%	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302 \$0 \$5,802,228 \$1,736,721 \$118,413	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002 \$1,372,796 \$0 \$0 \$2,525,944 \$0 \$466,751 \$109,824	No	\$0 \$2,210,372 \$4,302,332 \$4,302,332 \$0 \$1,973,547 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
DEE DEE DEE DESETT DPK HAPPYY HVR HVR HVR HVR LONE M LNM LNM PINNACI- PIN PIN	Tatum Bivd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash e/o Cave Creek Wash to Desert Peak Pkwy Jountain Rd (LNM), Sonoran Desert Dr to Cave Creek Rd Sonoran Desert Dr to Black Mtn Blvd Black Mtn Blvd to 705' w/o Cave Creek Rd 105' w/o Cave Creek Rd to Cave Creek Rd Le Peak Rd (PIN), Cave Creek Rd to Scottsdale Rd Cave Creek Rd to Black Mtn Blvd Black Mtn Blvd to 705' w/o Cave Creek Rd Le Peak Rd (PIN), Cave Creek Rd to Scottsdale Rd Cave Creek Rd to Black Mtn Blvd Black Mtn Blvd to 2500' w/o Cashman Dr	A A A A A A A A A A A A A A A A A A A	6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24 0.92 1.47 0.66 0.13 1.18 0.25	100.0% 100.0% 0.0% 0.0% 100.0% 100.0% 50.0% 0.0% 100.0% 100.0% 0.0% 0.0% 0.0% 0	66.7% 100.0% 0.0% 0.0% 100.0% 50.0% 0.0% 50.0% 0.0% 0.0% 0.0% 100.0% 0.0% 0.0% 0.0	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302 \$0 \$5,802,228 \$1,736,721 \$118,413 \$4,657,570	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002 \$1,372,796 \$0 \$2,525,944 \$0 \$466,751 \$109,824	No	\$2,210,372 \$4,302,332 \$4,302,332 \$50 \$1,973,547 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50
DEE DEE DEE DEE DEE DES DES DES DES DES	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash e/o Cave Creek Wash to Desert Peak Pkwy Jountain Rd (LNM), Sonoran Desert Dr to Cave Creek Rd Sonoran Desert Dr to Black Mth Blvd Black Mth Blvd to 705' w/o Cave Creek Rd 10 Feak Rd (PIN), Cave Creek Rd to Cave Creek Rd 10 Feak Rd (PIN), Cave Creek Rd to Cave Creek Rd Black Mth Blvd to 705' w/o Cave Creek Rd 10 Feak Rd (PIN), Cave Creek Rd to Cave Creek Rd Black Mth Blvd to 2500' w/o Cashman Dr 2500' w/o Cashman Dr to 1140' w/o Cashman	A A A A A A A A A A A A A A A A A A A	6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24 0.92 1.47 0.66 0.13	100.0% 100.0% 0.0% 0.0% 100.0% 100.0% 50.0% 0.0% 100.0% 100.0% 33.3% 77.8%	66.7% 100.0% 0.0% 100.0% 100.0% 50.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302 \$0 \$5,802,228 \$1,736,721 \$118,413 \$4,657,570 \$986,773 \$1,065,715	\$988,413 \$1,674,811 \$0 \$0 \$1,867,002 \$1,372,796 \$0 \$2,525,944 \$0 \$466,751 \$109,824 \$0 \$0	No	\$2,210,372 \$4,302,332 \$4,302,332 \$50 \$1,973,547 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50 \$50
DEE DEE DEE DEE DEE DES DES DES DES DES	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South 64th St to Wash e/o Superblock 1 South 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash e/o Cave Creek Wash to Desert Peak Pkwy Aountain Rd (LNM), Sonoran Desert Dr to Cave Creek Rd Sonoran Desert Dr to Black Mtn Blvd Black Mtn Blvd to 705' w/o Cave Creek Rd 705' w/o Cave Creek Rd to Socttsdale Rd Cave Creek Rd to Black Mtn Blvd Black Mtn Blvd to 2500' w/o Cashman Dr 2500' w/o Cashman Dr to 1140' w/o Cashman 1140' w/o Cashman Dr to 101th St	A A A A A A A A A A A A A A A A A A A	6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24 0.92 1.47 0.66 0.13 1.18 0.25 0.27 0.80	100.0% 100.0% 100.0% 0.0% 0.0% 100.0% 50.0% 0.0% 100.0% 100.0% 0.0% 0.0% 0.0% 0	66.7% 100.0% 0.0% 0.0% 100.0% 100.0% 0.0% 0.	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302 \$5,802,228 \$1,736,721 \$118,413 \$4,657,570 \$986,773 \$1,065,715 \$3,157,675	\$988,413 \$1,674,811 \$0 \$1,867,002 \$1,372,796 \$0 \$2,525,944 \$109,824 \$0 \$0 \$0 \$0 \$0 \$1,372,796 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	No	\$2,210,372 \$4,302,332 \$4,302,332 \$0 \$1,973,547 \$5 \$6 \$6 \$6 \$6 \$6 \$6 \$7 \$1,973,547 \$6 \$6 \$6 \$6 \$6 \$6 \$6 \$7 \$1,973,547 \$6 \$6 \$6 \$6 \$6 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7 \$7
DEE DEE DEE DEE DEE DES DES DES HAPPY HVR HVR HVR HVR LONE LONE LNM LNM PINN PINN PIN PIN PIN PIN	Tatum Bivd to Marriott Dr Marriott Dr to 56th St Schft St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South to 64th St 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash e/o Cave Creek Wash to Desert Peak Pkwy Jountain Rd (LNM), Sonoran Desert Dr to Cave Creek Rd Sonoran Desert Dr to Black Mtn Blvd Black Mtn Blvd to 705 w/o Cave Creek Rd EPeak Rd (PIN), Cave Creek Rd to Scottsdale Rd Cave Creek Rd to Black Mtn Blvd Black Mtn Blvd to 2500' w/o Cashman Dr 2500' w/o Cashman Dr to 1140' w/o Cashman 1140' w/o Cashman Dr to 1040' KS 40th St to Tatum Blvd	A A A A A A A A A A A A A A A A A A A	6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24 0.92 1.47 0.66 0.13 1.18 0.25 0.27 0.80	100.0% 100.0% 0.0% 0.0% 100.0% 100.0% 100.0% 0.0%	66.7% 100.0% 0.0% 0.0% 100.0% 100.0% 0.0% 0.	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302 \$1,736,721 \$118,413 \$4,657,570 \$966,773 \$1,065,715 \$3,157,675 \$3,197,146	\$988,413 \$1,674,811 \$0 \$1,867,002 \$1,372,796 \$0 \$0 \$2,525,944 \$109,824 \$0 \$0 \$0 \$0 \$0 \$0 \$1,372,796 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	No	\$0 \$2,210,372 \$4,302,332 \$4,302,332 \$0 \$1,973,547 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,973,547 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
DEE DEE DEE DEE DEE DES DES DES DES DES	Tatum Blvd to Marriott Dr Marriott Dr to 56th St 56th St to Wash e/o Superblock 1 South Wash e/o Superblock 1 South 64th St to Wash e/o Superblock 1 South 64th St to Scottsdale Rd Peak Pkwy (DPK), Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Happy Valley Rd to Cave Creek Rd Valley Rd (HVR), CAP (@ +/- 7th Ave align.) to Desert Peak Pkwy CAP to 7th St 7th St to 16th St align. 16th St align. to e/o Cave Creek Wash e/o Cave Creek Wash to Desert Peak Pkwy Aountain Rd (LNM), Sonoran Desert Dr to Cave Creek Rd Sonoran Desert Dr to Black Mtn Blvd Black Mtn Blvd to 705' w/o Cave Creek Rd 705' w/o Cave Creek Rd to Socttsdale Rd Cave Creek Rd to Black Mtn Blvd Black Mtn Blvd to 2500' w/o Cashman Dr 2500' w/o Cashman Dr to 1140' w/o Cashman 1140' w/o Cashman Dr to 101th St	A A A A A A A A A A A A A A A A A A A	6LD	0.54 0.61 0.56 1.09 0.68 1.00 1.00 0.24 0.92 1.47 0.66 0.13 1.18 0.25 0.27 0.80	100.0% 100.0% 100.0% 0.0% 0.0% 100.0% 50.0% 0.0% 100.0% 100.0% 0.0% 0.0% 0.0% 0	66.7% 100.0% 0.0% 0.0% 100.0% 100.0% 0.0% 0.	\$0 \$2,210,372 \$4,302,332 \$0 \$1,973,547 \$3,947,094 \$947,302 \$5,802,228 \$1,736,721 \$118,413 \$4,657,570 \$986,773 \$1,065,715 \$3,157,675	\$988,413 \$1,674,811 \$0 \$1,867,002 \$1,372,796 \$0 \$2,525,944 \$109,824 \$0 \$0 \$0 \$0 \$0 \$1,372,796 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	No	\$0 \$2,210,372 \$4,302,332 \$4,302,332 \$0 \$1,973,547 \$0 \$0 \$0 \$0 \$0 \$0 \$1,973,547 \$0 \$0 \$0 \$0 \$0 \$1,973,547 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0

Table 9 - 2020-2029 Major Arterial Street Infrastructure Improvements Plan (IIP) - Northern Service Area

Segment	Cross Section, "XSEC _{ULT} "	Ultimate Lane Config., "LCON _{UIT} "	Ultimate Length, "L _{UIt} " (miles)	Physically Complete (pavement & concrete in place)	Percent Functionally Complete (striped number of thru lanes)	Preliminary Estimate of Ultimate Needed Roadway Construction Cost	Value of Existing Roadway	2020-29 IIP Planned Improvement	Roadway Construction Cost Accounted for in 2020-2029 Impact Fee
), West limit of fee area (16th St align)) to Cave Creek Rd								
Area to Lone Mtn Rd	A	6LD	1.80	33.3%	31.7%	\$4,736,512	\$1,564,987	No	\$0
.16 mi w/o Cave Creek Rd	A	6LD	0.90	33.3%	31.7%	\$2,368,256	\$796,222	No	\$(
Creek Rd to Cave Creek Rd	A	6LD	1.16	33.3%	35.6%	\$3,039,262	\$1,125,692	No	\$0
one Mtn Rd									
	Α	6LD	0.67	55.6%	66.7%	\$1,184,128	\$1,235,516	Yes	\$1,184,128
Blvd	A	6LD	0.21	55.6%	66.7%	\$355,238	\$384,383	Yes	\$355,238
' s/o Loop 101	A	6LD	0.22	55.6%	63.3%	\$394,709	\$384,383	Yes	\$394,709
to 360' n/o Loop 101	A	6LD	0.15	100.0%	100.0%	\$0	\$411,839	No	\$(
I to Deer Valley Rd	A	6LD	0.45	100.0%	100.0%	\$0	\$1,235,516	No	\$(
Abraham Dr	A	6LD	0.16	88.9%	83.3%	\$78,942	\$356,927	No	\$(
0' n/o Ranger Dr	A	6LD	1.02	77.8%	66.7%	\$907,832	\$1,867,002	No	\$(
to Pinnacle Peak Rd	A	6LD	0.18	77.8%	66.7%	\$157,884	\$329,471	No	\$(
40th St	A	6LD	0.55	77.8%	66.7%	\$473,651	\$1,015,869	No	\$(
illey Rd	A	6LD	0.35	77.8%	66.7%	\$315,767	\$631,486	No	\$(
280' S/O Prickly Pear Trl	A	6LD	0.71	77.8%	66.7%	\$631,535	\$1,290,428	No	\$(
r Trl to Jomax Rd	A	6LD	0.42	77.8%	83.3%	\$355,238	\$960,957	No	\$(
ite Blvd	A	6LD	1.00	77.8%	66.7%	\$868,361	\$1,839,546	No	\$(
Dixileta Dr	A	6LD	0.63	77.8%	66.7%	\$552,593	\$1,153,148	No	\$(
e Creek Rd	A	6LD	0.76	77.8%	66.7%	\$671,006	\$1,400,252	No	\$(
Black Mtn Pkwy	В	6LD	0.32	100.0%	66.7%	\$0	\$576,574	No	\$(
o Lone Mtn Rd	A	6LD	0.92	0.0%	0.0%	\$3,631,326	\$0	No	\$(
/ Valley Rd					i i		i i		
-	D	4LU+	1.00	0.0%	0.0%	\$2,745,591	\$0	No	\$0
1/o Loop 101	A	6LD	0.43	100.0%	100.0%	\$0	\$1,180,604	No	\$(
o Deer Valley Rd	A	6LD	0.47	0.0%	0.0%	\$1,855,134	\$0	Yes	\$1,855,134
boundary of SB 1S	A	6LD	1.50	0.0%	0.0%	\$5,920,640	\$0	Yes	\$5,920,640
S to Pinnacle Peak Rd	A	6LD	0.50	0.0%	0.0%	\$1,973,547	\$0	No	\$(
Happy Valley Rd	CM	4LD	0.99	0.0%	0.0%	\$2,974,792	\$0	No	\$(
S to Pi	nnacle Peak Rd / Valley Rd	nnacle Peak Rd A	nnacle Peak Rd A 6LD	nnacle Peak Rd A 6LD 0.50	nnacle Peak Rd A 6LD 0.50 0.0%	nnacle Peak Rd A 6LD 0.50 0.0% 0.0%	nnacle Peak Rd A 6LD 0.50 0.0% 0.0% \$1,973,547	nnacle Peak Rd A 6LD 0.50 0.0% 0.0% \$1,973,547 \$0	nnacle Peak Rd A 6LD 0.50 0.0% 0.0% \$1,973,547 \$0 No

	Table 10 - 2020-2029 Major	lajor Arterial Street Infrastructu				/ements Plar	i (IIP) - Southw	est Service A		
Street	Segment	Ultimate City Standard Cross Section, "XSEC _{ULT} "	Ultimate Lane Config., "LCON _{UII} "	Ultimate Length, "L _{UIt} " (miles)	Percent Physically Complete (pavement & concrete in place)	Percent Functionally Complete (striped number of thru lanes)	Preliminary Estimate of Ultimate Needed Roadway Construction Cost	Value of Existing Roadway	2020-29 IIP Planned Improvement	Roadway Construction Cost Accounted for in 2020-2029 Impact Fee
19th Ave 19A	(19A), Baseline Rd to Southern Ave Baseline Rd to Fremont Rd	D	4LU+	0.25	100.00/	100.00/	\$0	\$686,398	No	r e
19A 19A	Fremont Rd to Vineyard Rd	D D	4LU+	0.25	100.0% 100.0%	100.0% 100.0%	\$0 \$0	\$686,398	No	\$(\$(
19A	Vineyard Rd to Alta Vista Rd	D	4LU+	0.25	100.0%	100.0%	\$0	\$686,398	No	\$(
19A	Alta Vista Rd to 170' s/o Lynne	D	4LU+	0.14	100.0%	100.0%	\$0 \$0 \$0 \$0 \$0	\$384,383	No	\$(
19A	170' s/o Lynne Ln to Lynne Ln	D	4LU+	0.03	100.0%	100.0%	\$0	\$82,368	No	\$(\$(
19A 51st Δνο	Lynne Ln to Southern Ave (51A), City Limits to I-10	D	4LU+	0.08	100.0%	100.0%	\$0	\$219,647	No	\$0
51A	City Limits to Estrella Dr	CM	4LD	0.60	28.6%	37.5%	\$1,292,081	\$631,486	Yes	\$1,292,081
51A	Estrella Dr to Elliot Rd	CM	4LD	1.00	28.6%	37.5%	\$2,133,436	\$1,043,325	Yes	\$2,133,436
51A	Elliot Rd to Dobbins Rd	CM	4LD	1.00	28.6%	37.5%	\$2,133,436	\$1,043,325	Yes	\$2,133,436
51A 51A	Dobbins Rd to South Mountain Ave South Mountain Ave to 130' s/o Beverly Rd	CM CM	4LD 4LD	0.50 0.24	100.0% 100.0%	100.0% 100.0%	\$0 \$0 \$0	\$1,372,796 \$658,942	No No	\$(\$(
51A	130' s/o Beverly Rd to Beverly Rd	CM	4LD	0.24	100.0%	100.0%	\$0	\$82,368	No	\$(
51A	Beverly Rd to Baseline Rd	CM	6LD	0.24	100.0%	100.0%	\$0	\$658,942	No	\$(
51 A	Baseline Rd to 905' n/o Baseline Rd	CM	6LD	0.17	100.0%	83.3%	\$0	\$384,383	No	\$(
51A	905' n/o Baseline Rd to Burgess Ln	CM	4LD	0.66	100.0%	100.0%	\$0	\$1,812,090	No	\$(
51A 51A	Burgess Ln to Southern Ave Southern Ave to Broadway Rd	CM CM	6LD 4LD	0.17 0.78	100.0% 100.0%	100.0% 100.0%	\$0 \$0	\$466,751 \$2,141,561	No No	\$(er
51A 51A	Broadway Rd to Salt River Bridge	CM	4LD 4LD	0.78	100.0%	95.0%	\$0 \$0	\$2,141,561	No	\$0 \$0 \$0
51A	Salt River Bridge to Broadway Rd	CM	4LD	0.45	100.0%	95.0%	\$0 \$0 \$0 \$0	\$1,180,604	No	
51 A	Broadway Rd to Lower Buckeye Rd	CM	4LD	0.74	100.0%	95.0%	\$0	\$1,921,914	No	\$(
51A	Lower Buckeye Rd to N. Limit of Fee Area	D	4LU+	0.50	100.0%	100.0%	\$0	\$1,372,796	No	\$(
51A 51A	S. Limit of Fee Area to Buckeye Rd Buckeye Rd to Van Buren St	D D	4LU+ 4LU+	0.44 1.00	100.0% 100.0%	100.0% 100.0%	\$0	\$1,208,060 \$2,745,591	No No	\$(\$(
51A 51A	Van Buren St to I-10	D	4LU+ 5LU+	0.79	100.0%	100.0%	\$0 \$0	\$2,745,591	No	\$(
	(75A), Baseline Rd to Buckeye Rd	D	3201	0.17	100.070	100.070	40	\$2,107,017	140	
75A	Baseline Rd to 1300' n/o Baseline Rd	D	4LU+	0.25	42.9%	39.5%	\$384,383	\$274,559	Yes	\$384,383
75A	1300' n/o Baseline Rd to 350' n/o Vineyard	D	4LU+	0.33	100.0%	50.0%	\$0	\$439,295	Yes	\$1
75A	350' n/o Vineyard to Salt River	D	4LU+	0.42	28.6%	39.5%	\$823,677	\$439,295	Yes	\$823,677
75A 75A	Salt River to Broadway Rd Broadway Rd to 1325' n/o Broadway Rd	D CM	4LU+ 4LD	0.93 0.25	0.0% 100.0%	0.0% 94.6%	\$2,553,400 \$0	\$0 \$658,942	 	\$2,553,400 \$0
75A 75A	1325' n/o Broadway Rd to 1300' s/o Lower Buckeye Rd	CM	4LD	0.50	100.0%	95.0%	\$0	\$1,317,884	Yes Yes	\$(
75A	1300' s/o Lower Buckeye Rd to 1060' s/o Lower Buckeye Rd	CM	4LD	0.05	100.0%	95.0%	\$0	\$137,280	. L	\$(
75A	1060' s/o Lower Buckeye Rd to Lower Buckeye Rd	CM	4LD	0.20	100.0%	95.0%	\$0	\$521,662	Yes	\$(
75A	Lower Buckeye Rd to 900' n/o Lower Buckeye Rd	D	4LU+	0.17	71.4%	75.0%	\$137,280	\$356,927	Yes	\$137,280
75A 75A	900' n/o Lower Buckeye Rd to 1650' n/o Lower Buckeye Rd 1650' n/o Lower Buckeye Rd to Durango St	D D	4LU+ 4LU+	0.14 0.19	71.4% 100.0%	75.0% 100.0%	\$109,824 \$0	\$302,015 \$521,662	Yes No	\$109,824 \$1
75A	Durango St to Buckeye Rd	D	4LU+	0.17	100.0%	100.0%	\$0		No	\$(
	(75A), Buckeye Rd to Van Buren St, east half (northbound lanes) only									· · · · · · · · · · · · · · · · · · ·
75A	Buckeye Rd to Van Buren St	CM-1/2	4LD-1/2	1.01	100.0%	95.0%	\$0	\$2,635,768	No	\$(
	(75A), Van Buren St to I-10	_				1			T	1
75A 75A	Van Buren St to Roosevelt St Roosevelt St to I-10	D A	4LU+ 6LD	0.48 0.21	100.0% 100.0%	100.0% 63.3%	\$0 \$0	\$1,317,884 \$356,927	No No	\$(\$(
	Rd (BLR), 75th Ave to 7th Ave	^	OLD	0.21	100.076	03.370	\$0	\$330,721	NO	, ot
BLR	75th Ave to 71st Ave	В	6LD	0.50	77.8%	66.7%	\$403,401	\$906,045	Yes	\$403,40
BLR	71st Ave to 67th Ave	В	6LD	0.50	55.6%	47.5%	\$806,802	\$658,942	Yes	\$806,802
BLR	67th Ave to 63rd Ave	В	6LD	0.44	66.7%	47.5%	\$550,092	\$576,574	Yes	\$550,093
BLR BLR	63rd Ave to 59th Ave 59th Ave to 55th Ave	B B	6LD 6LD	0.56 0.49	22.2% 77.8%	25.0% 25.0%	\$1,613,604 \$403,401	\$384,383 \$329,471	Yes Yes	\$1,613,604 \$403,40
BLR	55th Ave to 890' w/o 51st Ave	В	6LD	0.49	77.8%	25.0% 66.7%	\$403,401 \$256,710	\$329,471 \$604,030	Yes	\$403,40 \$256,710
BLR	890' w/o 51st Ave to 51st Ave	В	6LD	0.17	88.9%	66.7%	\$73,346	\$302,015	Yes	\$73,34
BLR	51st Ave to 47th Ave	В	6LD	0.49	77.8%	63.3%	\$403,401	\$851,133	Yes	\$403,40
BLR	47th Ave to 43rd Ave	В	6LD	0.49	66.7%	63.3%	\$586,765	\$851,133	Yes	\$586,76
BLR	43rd Ave to 1330' w/o 35th Ave	CM	4LD	0.75	100.0%	100.0%	\$0 \$00.14E	\$2,059,194	No	\$00.14
BLR BLR	1330' w/o 35th Ave to 35th Ave 35th Ave to 660' w/o 31st Ave	CM CM	4LD 4LD	0.25 0.38	88.9% 85.7%	100.0% 95.0%	\$90,145 \$150,242	\$686,398 \$988,413	Yes Yes	\$90,14 \$150,24
BLR	660' w/o 31st Ave to 125' e/o 29th Dr	CM	4LD 4LD	0.38	100.0%	95.0%	\$150,242	\$988,413	Yes	\$150,24.
BLR	125' e/o 29th Dr to 27th Ave	CM	4LD	0.25	85.7%	95.0%	\$120,194	\$658,942	Yes	\$120,194
BLR	27th Ave to 19th Ave	CM	4LD	1.00	100.0%	95.0%	\$0 \$0	\$2,608,312	Yes	\$(
BLR	19th Ave to 7th Ave	CM	4LD	1.00	100.0%	95.0%	\$0	\$2,608,312	Yes	\$(
Broadwa	y Rd (BWR), 43rd Ave to 23rd Ave 43rd Ave to 310' w/o 35th Ave	В	6LD	0.98	100.0%	31.7%	\$0	\$851,133	Yes	\$(
BWR	310' w/o 35th Ave to 35th Ave	В	6LD	0.98	100.0%	31.7% 47.5%	\$0	\$82,368		\$(
BWR	35th Ave to 27th Ave	В	6LD	1.00	100.0%	100.0%	\$0	\$2,745,591	No	\$(
BWR	27th Ave to 23rd Ave	В	6LD	0.49	100.0%	100.0%	\$0			\$(
	Rd (BR), 107th Ave to 75th Ave, south half (eastbound lanes) only									
BR	107th Ave to 1980' e/o 107th Ave	A-1/2	6LD-1/2	0.37	55.6%	63.3%	\$439,295	\$631,486	Yes	\$439,29
BR BR	1980' e/o 107th Ave to 99th Ave 99th Ave to 91st Ave	A-1/2 A-1/2	6LD-1/2 6LD-1/2	0.63 1.00	55.6% 55.6%	63.3%	\$768,766 \$1,208,060	\$1,098,237 \$1,729,723	Yes Yes	\$768,76 \$1,208,06
BR	91st Ave to 91st Ave 91st Ave to 83rd Ave	A-1/2 A-1/2	6LD-1/2 6LD-1/2	0.98	55.6% 55.6%	63.3% 63.3%	\$1,208,060	\$1,729,723	Yes	\$1,208,060
BR	83rd Ave to 1300' e/o 83rd Ave	A-1/2	6LD-1/2	0.25	55.6%	63.3%	\$302,015	\$439,295	Yes	\$302,01
	1300' e/o 83rd Ave to 79th Ave	A-1/2	6LD-1/2	0.25	55.6%	63.3%	\$302,015	\$439,295	Yes	\$302,01!
BR	1300 e/0 831d Ave to 79th Ave	/								

Table 10 - 2020-2029 Major Arterial Street Infrastructure Improvements Plan (IIP) - Southwest Service Area

	1 dbic 10 - 2020-2027 Wajor	Airteriai	Juli CCU III	II astract	are improv	Vernerits i iui	r (iii) Southw	CSt Scr vice / t	Cu	
Street	Segment	Ultimate City Standard Cross Section, "XSECIIIT"	Ultimate Lane Config., "LCON _{UE} "	Ultimate Length, "L _{UIt} " (miles)	Percent Physically Complete (pavement & concrete in place)	Percent Functionally Complete (striped number of thru lanes)	Preliminary Estimate of Ultimate Needed Roadway Construction Cost	Value of Existing Roadway	2020-29 IIP Planned Improvement	Roadway Construction Cost Accounted for in 2020-2029 Impact Fee
	Rd (BR), 75th Ave to 43rd Ave - Full Street	NOLOULI	LOOMIN	(111105)	pidooj	idilo <i>3</i>)	0011311 4011011 0031	nodawaj	Improvement	100
BR	75th Ave to 69th Ave	D	4LU+	0.75	100.0%	100.0%	\$0	\$2,059,194	No	\$0
BR	69th Ave to 300' w/o 67th Ave	D	4LU+	0.19	85.7%	100.0%	\$82,368	\$521,662	No	\$(
BR	300' w/o 67th Ave to 67th Ave	D	4LU+	0.06	100.0%	100.0%	\$0	\$164,735	No	\$1
BR	67th Ave to 530' e/o 67th Ave	D	4LU+	0.10	100.0%	100.0%	\$0	\$274,559	No	\$(
BR	530' e/o 67th Ave to 340' w/o 65th Ave	D	4LU+	0.15	57.1%	78.9%	\$164,735	\$329,471	Yes	\$164,73
BR	340' w/o 65th Ave to 63rd Ave	D	4LU+	0.24	85.7%	78.9%	\$82,368	\$521,662	Yes	\$82,36
BR	63rd Ave to 1325' w/o 59th Ave	D	4LU+	0.25	85.7%	78.9%	\$109,824	\$549,118	Yes	\$109,82
BR	1325' w/o 59th Ave to 59th Ave	D	4LU+	0.25	71.4%	78.9%	\$192,191	\$549,118	Yes	\$192,19
BR	59th Ave to 55th Ave	D	4LU+	0.50	100.0%	100.0%	\$0	\$1,372,796	No	\$1
BR	55th Ave to 51st Ave	D	4LU+	0.50	100.0%	100.0%	\$0	\$1,372,796	No	\$
BR	51st Ave to 43rd Ave	D	4LU+	1.00	100.0%	100.0%	\$0	\$2,745,591	No	\$
Dobbins	Rd, 7th Ave to Carver Rd (W Limit of Fee Area)									
DBN	7th Ave to 135' w/o 10th Dr	С	4LU+	0.25	71.4%	50.0%	\$215,377	\$356,927	No	\$1
DBN	135' w/o 10th Dr to 470' e/o 17th Dr	С	4LU+	0.40	42.9%	39.5%	\$707,667	\$439,295	No	\$
DBN	470' e/o 17th Ave to 17th Ave	С	4LU+	0.09	57.1%	50.0%	\$123,073	\$137,280	No	\$
DBN	17th Ave to 19th Ave	С	4LU+	0.25	42.9%	39.5%	\$430,754	\$274,559	No	\$
DBN	19th Ave to 27th Ave	С	4LU+	1.00	28.6%	39.5%	\$2,184,537	\$1,070,781	No	\$
DBN	27th Ave to 33rd Ave	С	4LU+	0.74	28.6%	39.5%	\$1,630,711	\$796,222	Yes	\$1,630,71
DBN	33rd Ave to 35th Ave	С	4LU+	0.25	57.1%	50.0%	\$338,449	\$356,927	Yes	\$338,44
DBN	35th Ave to 35th Glen	С	4LU+	0.10	57.1%	50.0%	\$123,073	\$137,280	Yes	\$123,07
DBN	35th Glen to 39th Ave Align	С	4LU+	0.40	28.6%	39.5%	\$892,276	\$439,295	Yes	\$892,27
DBN	39th Ave Align to 43rd Ave	С	4LU+	0.50	57.1%	50.0%	\$646,131	\$686,398	Yes	\$646,13
DBN	43rd Ave to 48th Dr	С	4LU+	0.65	57.1%	50.0%	\$861,508	\$906,045	Yes	\$861,50
DBN	48th Dr to 51st Ave	С	4LU+	0.35	71.4%	75.0%	\$307,681	\$713,854	Yes	\$307,68
DBN	51st Ave to 270' w/o 53rd Ave	С	4LU+	0.31	71.4%	75.0%	\$276,913	\$631,486	Yes	\$276,91
DBN	270' w/o 53rd Ave to 360' w/o 56th Glen	C	4LU+	0.48	71.4%	50.0%	\$430,754	\$658,942	Yes	\$430,75
DBN	360' w/o 56th Glen to 59th Ave	С	4LU+	0.20	71.4%	39.5%	\$184,609	\$219,647	Yes	\$184,60
DBN	59th Ave to 67th Ave	С	4LU+	0.96	28.6%	39.5%	\$2,123,001	\$1,043,325	Yes	\$2,123,00
DBN	67th Ave to Carver (W Limit of Fee Area)	С	4LU+	0.29	28.6%	39.5%	\$646,131	\$302,015	Yes	\$646,13
Total Soi	uthwest Service Area 2020-2029 IIP Costs						\$32.611.990	\$ 82.175.550	-	\$28.868.214
10141 300	ATTIVOST SOLVIOCATION 2020 2027 III 00313						Ψ02,011,770	Ψ 02,173,330		Ψ20,000,214

Table 11 - Existing and 2020-2029 IIP Major Arterial Street Culvert Costs - Northern Service Area

Table 11 - Existing a	ana 2020)-2029	IIP IVIa	Jor Ari	eriai St	reet Cl	Jivert (osts -				2020 2020 HD
		Length	Width	Height	Diameter				Culvert Construction	Culvert Status	Existing Culvert	2020-2029 IIP Culvert
Street Name	Culvert ID		(feet)	(feet)*	(inches)	Barrels	Total (cf)	Total (If)		(E, P, F)	Value	Cost
39th Ave/Vision Way (39A), Pioneer Rd to Anthem Way					, ,							
39th Ave / Vision Way ¹	36+	156	8	6		7	52,416	1,092	\$1,310,400	F	\$0	\$0
Anthem Way (ANT), Avenue A to I-17					•							
Anthem Way, Pyramid Peak to 43rd	197	135			36	2		270	\$87,750	E	\$87,750	\$0
Daisy Mountain Dr (DSY), west limit of fee area (@Avenu											1	
Daisy Mountain 1	88	170	8	6	<u> </u>	6	48,960	1,020	\$1,224,000	Р	\$0	\$1,224,000
New River Rd (NRV), Cloud Rd to I-17 (north of Jenny Lin		I	ı	ı							1 00	
New River Rd North Valley Pkwy (NVP), CAP to Carefree Hwy	267	J.					L		1		\$0	\$0
North Valley Pkwy (Quail Track to Copperhead)	306?	250	5	6		4		1,000	\$750,000	E	\$750,000	\$0
North Valley Pkwy (Quail Track to Copperhead)	N/A	165	5	6		4		660	\$495,000	E	\$495,000	\$0
North Valley Pkwy (Casino to Dixileta)	3?	145	5	6		2		290	\$217,500	E	\$217,500	\$0
North Valley Pkwy (27th Dr to North End)	4	150			36	5		750	\$243,750	E	\$243,750	\$0
Pyramid Peak Pkwy (PYR), southwest corner of fee area (@ +/-67th Av	re & Jomax	Rd) to An	them Wy								
Pyramid Peak ¹	143	150	6	6		2	10,800	300	\$270,000	Р	\$0	\$270,000
Sonoran Desert Dr (SDD), I-17 to east limit of fee area (@	+/- 16th St a	ılign.)										
Sonoran Desert Dr ⁵	8	150	12	4		6	43,200		\$1,080,000	E	\$1,080,000	\$0
Sonoran Desert Dr ⁵	9*+	81	10	6		2	9,720		\$243,000	Х	\$243,000	\$243,000
Sonoran Desert Dr ⁵	10*+	162	10	6		2	19,440		\$486,000	P	\$0	\$486,000
Sonoran Desert Dr ^{1,3}	277	175	6	6		6	24.422	1,050	\$945,000	E	\$945,000	\$0
Sonoran Desert Dr ⁵	7	300	12	6		1	21,600		\$540,000	P	\$0	\$540,000
Sonoran Desert Dr ⁵	107+ 108+	180 160	12 12	6	 	3	38,880		\$972,000 \$576,000	P P	\$0	\$972,000
Sonoran Desert Dr ⁵ Black Mountain Blvd (BMB), Loop 101 to Cave Creek Rd	108+	160	12	0			23,040		\$576,000	Р	\$0	\$576,000
Black Mountain Pkwv ²	114	162	10	6		6	58,320		\$1,458,000	P	\$0	\$1,458,000
Black Mountain Pkwy ²	115	162	6	6		1	5,832		\$1,45,800	P	\$0	\$1,436,000
Black Mountain Pkwy ²	116	162	8	6		1	7,776		\$194,400	P	\$0	\$194,400
Black Mountain Pkwy ²	117	162	8	6		4	31,104		\$777,600	P	\$0	\$777,600
Black Mountain Pkwy ²	152	162	6	6		2	11,664		\$291,600	P	\$0	\$291,600
Black Mountain Pkwy ²	153	162	6	6		4	23,328		\$583,200	Р	\$0	\$583,200
Black Mountain Pkwy ²	154	162	6	6		6	34,992		\$874,800	Р	\$0	\$874,800
Black Mountain Pkwy ²	158	162	6	6		1	5,832		\$145,800	Р	\$0	\$145,800
Black Mountain Pkwy ²	203	162	8	6		1	7,776		\$194,400	Р	\$0	\$194,400
Black Mountain Pkwy ²	204	162	6	6		1	5,832		\$145,800	P	\$0	\$145,800
Black Mountain Pkwy ²	240*	235	8	4		2	15,040	470	\$376,000	E	\$376,000	\$0
Cave Creek Rd (CAV), CAP to North City limits											T	
Cave Creek Rd ⁴	54*	50	10	1		3	1,500		\$37,500	X	\$37,500	\$37,500
Cave Creek Rd ⁴	55* 56*	50 50	10 6	4		3 10	6,000		\$150,000 \$150,000	X	\$150,000	\$150,000
Cave Creek Rd ⁴ Cave Creek Rd ⁴	109*	50	10	1		2	1,000		\$150,000	X	\$150,000 \$25,000	\$150,000 \$25,000
Cave Creek Rd Cave Creek Rd	110*	50	10	2		3	3,000		\$75,000	X	\$75,000	\$25,000
Cave Creek Rd ⁴	111*	50	10	2		3	3,000		\$75,000	X	\$75,000	\$75,000
Cave Creek Rd ⁴	112*	50	10	2		3	3,000		\$75,000	X	\$75,000	\$75,000
Cave Creek Rd ⁴	113*	50	10	1		1	500		\$12,500	Х	\$12,500	\$12,500
Cave Creek Rd ⁴	144*	50	12	6		6	21,600		\$540,000	Х	\$540,000	\$540,000
Cave Creek Rd ⁴	145*	50			48	1		50	\$21,250	Х	\$21,250	\$21,250
Cave Creek Rd ⁴	146*	50	6	1		2	600		\$15,000	Х	\$15,000	\$15,000
Deer Valley RD (DEE), Cave Creek Rd to Scottsdale Rd												
Deer Valley Dr ²	250*	81	25	8		1	16,200		\$405,000	Χ	\$405,000	\$405,000
Deer Valley Dr ²	251*	81	25	8		1	16,200		\$405,000	Х	\$405,000	\$405,000
Deer Valley Dr ²	261	162	6	6		1	5,832		\$145,800	P	\$0	\$145,800
Deer Valley Dr ²	262	162	8	6		3	23,328		\$583,200	P	\$0	\$583,200
Deer Valley Dr ²	263 270	162	10 8	6		4	38,880		\$972,000 \$777.600	P	\$0	\$972,000
Deer Valley Dr ² Deer Valley Dr ²	270	162 162	6	6		4	31,104 11,664		\$777,600	P P	\$0 \$0	\$777,600 \$291,600
Deer Valley Dr ²	273	162	6	6		1	5,832		\$145,800	P	\$0	\$291,800
Pinnacle Peak Rd (PIN), Cave Creek Rd to Scottsdale Rd	273	102			l	<u>'</u>	3,032		\$145,000		1 \$0[\$143,000
Pinnacle Peak Rd ²	196	162	8	6		1	7,776		\$194,400	Р	\$0	\$194,400
Pinnacle Peak Rd ²	197	162	8	6		2	15,552		\$388,800	P	\$0	\$388,800
Pinnacle Peak Rd ²	198	162	6	6		2	11,664		\$291,600	Р	\$0	\$291,600
Pinnacle Peak Rd ²	199	162	10	6		9	87,480		\$2,187,000	Р	\$0	\$2,187,000
Pinnacle Peak Rd ²	200	162	6	6		1	5,832		\$145,800	Р	\$0	\$145,800
Pinnacle Peak Rd ²	201	162	8	6		1	7,776		\$194,400	Р	\$0	\$194,400
Pinnacle Peak Rd ²	202	162	8	6		5	38,880		\$972,000	Р	\$0	\$972,000
Pinnacle Peak Rd ²	205	162	8	6		3	23,328		\$583,200	Р	\$0	\$583,200
Pinnacle Peak Rd ²	206	162	8	6		3	23,328		\$583,200	P	\$0	\$583,200
Pinnacle Peak Rd ²	207	162	8	6		2	15,552		\$388,800	P	\$0	\$388,800
Pinnacle Peak Rd ²	208 209	162	6	6		1	5,832		\$145,800	P	\$0	\$145,800
	/09	162	6	6	1	1	5,832		\$145,800	Р	\$0	\$145,800
Pinnacle Peak Rd ²		1/2	1			-1	E 022		¢14E 000	P.	60	\$1.4E 000
Pinnacle Peak Rd ² Pinnacle Peak Rd ² Pinnacle Peak Rd ²	210 211	162 162	6 10	6		1 2	5,832 19,440		\$145,800 \$486,000	P P	\$0 \$0	\$145,800 \$486,000

Table 11 - Existing and 2020-2029 IIP Major Arterial Street Culvert Costs - Northern Service Area

Table 11 Existing	u.ra 2020			,	or iar or				Culturat	Culument	Full-Alice	2020 2020 IID
									Culvert	Culvert	Existing	2020-2029 IIP
		Length	Width	Height	Diameter				Construction	Status	Culvert	Culvert
Street Name	Culvert ID	(feet)	(feet)	(feet)*	(inches)	Barrels	Total (cf)	Total (If)	Cost/Value	(E, P, F)	Value	Cost
39th Ave/Vision Way (39A), Pioneer Rd to Anthem Way												
39th Ave / Vision Way ¹	36+	156	8	6		7	52,416	1,092	\$1,310,400	F	\$0	\$0
Sonoran Desert Drive (SDD), West limit of fee area (16th	St align) to Ca	ave Creek F	₹d									
Sonoran Desert Dr ^{1,3}	14*	81			36	2		162	\$52,650	FX	\$52,650	\$0
Sonoran Desert Dr ^{1,3}	15*	81			24	4		324	\$64,800	FX	\$64,800	\$0
Sonoran Desert Dr ^{1,3}	16*	81	10	6		3	14,580		\$364,500	FX	\$364,500	\$0
Sonoran Desert Dr ^{2,3}	17*	81			36	8		648	\$210,600	FX	\$210,600	\$0
Sonoran Desert Dr ^{2,3}	18*	81			36	8		648	\$210,600	FX	\$210,600	\$0
Sonoran Desert Dr ^{2,3}	19*	81			30	1		81	\$22,275	FX	\$22,275	\$0
Sonoran Desert Dr ^{2,3}	19A*	81	10	6		3	14,580		\$364,500	FX	\$364,500	\$0
Sonoran Desert Dr ^{2,3}	20*	81	8	6		3	11,664		\$291,600	FX	\$291,600	\$0
Sonoran Desert Dr ^{2,3}	21*	81			36	2		162	\$52,650	FX	\$52,650	\$0
Sonoran Desert Dr ^{2,3}	104*	81	6	6		1	2,916		\$72,900	FX	\$72,900	\$0
Sonoran Desert Dr ^{2,3}	105*	81	8	6		3	11,664		\$291,600	FX	\$291,600	\$0
Sonoran Desert Dr ^{2,3}	106*	81			30	3		243	\$66,825	FX	\$66,825	\$0
Sonoran Desert Dr ^{2,3}	107*	81			30	2		162	\$44,550	FX	\$44,550	\$0
Sonoran Desert Dr ^{2,3}	108*	81	10	6		6	29,160		\$729,000	FX	\$729,000	\$0
Tatum Blvd (TAT), CAP to Lone Mtn Rd												
Tatum s/o Jomax	171	100	10	4		1	4,000		\$100,000	E	\$100,000	\$0
Tatum n/o Pinnacle	213	162	10	6		1	9,720		\$243,000	Ε	\$243,000	\$0
Pinnacle Peak Rd & Tatum Intersection	212	168	8	6		2	16,128		\$403,200	E	\$403,200	\$0
64th St (64S), CAP to Happy Valley Rd												
64th St ²	265	162	8	6		11	85,536		\$2,138,400	Р	\$0	\$2,138,400
Subtotal									\$32,106,300	-	\$10,009,500	\$23,015,650
Design (15%)									\$4,815,945	-	\$1,501,425	\$3,452,348
COP Administrative Cost (22%)									\$7,063,386	-	\$2,202,090	\$5,063,443
Total Northern Service Area Culvert Cost									\$43,985,631	-	\$13,713,015	\$31,531,441

¹⁾ Culvert details from JE Fuller, *Desert View Arterial Street Drainage Structure Analysis (September 2002)*, City of Phoenix 2) Culvert details from JE Fuller, *North Gateway Drainage Structure Cost Analysis (May 2005*), City of Phoenix

³⁾ Culvert details correlated to ST85100294 design plans, see Culvert ID and Station in comments. Note that this alignment was modified from 2005 report.

⁴⁾ Cave Creek extensions based on expansion from 48' pavement half-width to 70' fully built half-width (cross-section B), assumed as 25' per half of roadway.

⁵⁾ Sonora Desert Drive Extension, spans North Gateway and Desert View study areas.

⁶⁾ Culvert details revised to meet 6'x6' minimum size requirement, City of Phoenix Storm Water Policies and Standards (rev. December 2013)

⁷⁾ Culvert unit cost of \$200/\$275/\$325/\$425 for 24"/30"/36"/48" cylinders derived by City of Phoenix from JE Fuller, Estrella and Laveen Drainage Structure Cost Analysis (September 2018) 8) Culvert unit cost of \$25 per cubic feet for boxes derived by City of Phoenix from JE Fuller, Estrella and Laveen Drainage Structure Cost Analysis (September 2018): p. 16 Table 5

⁹⁾ Culvert dimensions provided by the City of Phoenix

^{*}extension only +numbering per JE Fuller, North Gateway Drainage Structure Cost Analysis (May 2005) , City of Phoenix

Table 12 - Existing Major Arterial Street Storm Drain Value - Southwest Service Area

	Table 12 - Existing Major Arteria	i Street Si	orm Dra	iin vaiue	- South	west se	ervice Area	
Street	Segment	Existing SD Pipe Size	Ultimate Length, "L _{UIt} " (miles)	Length Modifier	Length of Existing Pipe (Feet)	Pipe Unit Cost	Value of Existing Storm Facility	Value of Storm Facility CB, MH, Laterals (30% of Facility)
	(19A), Baseline Rd to Southern Ave	1 1po 0120	(111100)	Modifie	1 - (/	0051	otoriir dointj	(8070 01 1 401111))
19A	Baseline Rd to Fremont Rd	33	0.25		1,320	\$144	\$190,080	\$57,024
19A	Fremont Rd to Vineyard Rd	36	0.25	 	1,320		\$219,120	\$65,736
19A	Vineyard Rd to Alta Vista Rd	36	0.25	 	1,320		\$219,120	\$65,736
19A	Alta Vista Rd to 170' s/o Lynne	39	0.14	 	739	\$178	\$131,578	\$39,473
19A	170' s/o Lynne Ln to Lynne Ln	39	0.03	 	158		\$28,195	\$8,459
19A	Lynne Ln to Southern Ave	39	0.08	 	422	\$178	\$75,187	\$22,556
	(51A), City Limits to I-10			L				
51A	Dobbins Rd to South Mountain Ave	72	0.50		2,640	\$385	\$1,016,400	\$304,920
51A	South Mountain Ave to 130' s/o Beverly Rd	72	0.24	 	1,267	\$385	\$487,872	\$146,362
51A	130' s/o Beverly Rd to Beverly Rd	72	0.03	 	158		\$60,984	\$18,295
51A	Beverly Rd to Baseline Rd	72	0.24	 	1,267	\$385	\$487,872	\$146,362
51A	Baseline Rd to 905' n/o Baseline Rd	24	0.17	 	898		\$89,760	\$26,928
51A	905' n/o Baseline Rd to Burgess Ln	42	0.66	1	3,485	\$189	\$658,627	\$197,588
51A	Burgess Ln to Southern Ave	42	0.17	 	898		\$169,646	\$50,894
51A	Southern Ave to Broadway Rd	42	0.78	 	4,118	\$189	\$778,378	\$233,513
51A	Broadway Rd to Salt River Bridge	42	0.12	 	634	\$189	\$119,750	\$35,925
51A	Salt River Bridge to Broadway Rd	96	0.45	 	2,376	\$485	\$1,152,360	\$345,708
51A	Broadway Rd to Lower Buckeye Rd	96	0.74	 	3,907	\$485	\$1,894,992	\$568,498
51A	Lower Buckeye Rd to N. Limit of Fee Area	96	0.50	 	2,640		\$1,280,400	\$384,120
51A	S. Limit of Fee Area to Buckeye Rd	90	0.44	 	2,323	\$460	\$1,068,672	\$320,602
51A	Buckeye Rd to Van Buren St	84	1.00	 	5,280		\$2,296,800	\$689,040
51A	Van Buren St to I-10	84	0.79	 	4,171	\$435	\$1,814,472	\$544,342
	(75A), Baseline Rd to Buckeye Rd		0.77		.,,,,,	V.00	\$1,011,112	4011/012
75A	Salt River to Broadway Rd	96	0.93		4,910	\$485	\$2,381,544	\$714,463
75A	Broadway Rd to 1325' n/o Broadway Rd	78	0.25	 	1,325	\$410	\$543,250	\$162,975
75A	1325' n/o Broadway Rd to 1300' s/o Lower Buckeye Rd	78	0.50	 	2,640		\$1,082,400	\$324,720
75A	1300' s/o Lower Buckeye Rd to 1060' s/o Lower Buckeye Rd	78	0.05	 	264		\$108,240	\$32,472
75A	1060' s/o Lower Buckeye Rd to Lower Buckeye Rd	78	0.20	 	1,056		\$432,960	\$129,888
75A	Lower Buckeye Rd to 900' n/o Lower Buckeye Rd	66	0.17	 	898		\$323,136	\$96,941
75A	900' n/o Lower Buckeye Rd to 1650' n/o Lower Buckeye Rd	66	0.14	 	739		\$266,112	\$79,834
75A	1650' n/o Lower Buckeye Rd to Durango St	66	0.19	 	1,003	\$360	\$361,152	\$108,346
75A	Durango St to Buckeye Rd	66	0.48	 	2,534	\$360	\$912,384	\$273,715
	(75A), Buckeye Rd to Van Buren St, east half (northbound lanes) only			ı				
75A	Buckeye Rd to Van Buren St	60	1.01	50.0%	2,666	\$320	\$853,248	\$255,974
	(75A), Van Buren St to I-10				, , , , ,		,	
75A	Van Buren St to Roosevelt St	24	0.48	33.0%	836	\$100	\$83,635	\$25,091
	Rd (BLR), 75th Ave to 7th Ave							
BLR	67th Ave to 63rd Ave	54	0.44	50.0%	1,162	\$305	\$354,288	\$106,286
BLR	59th Ave to 55th Ave	30	0.49		2,587	\$121	\$313,051	\$93,915
BLR	55th Ave to 890' w/o 51st Ave	66	0.33	200.0%	3,485	\$360	\$1,254,528	\$376,358
BLR	890' w/o 51st Ave to 51st Ave	66	0.17	200.0%	1,795		\$646,272	\$193,882
BLR	51st Ave to 47th Ave	36	0.49	50.0%	1,294		\$214,738	\$64,421
BLR	47th Ave to 43rd Ave	96	0.49	50.0%	1,294		\$627,396	\$188,219
BLR	43rd Ave to 1330' w/o 35th Ave	72	0.75	t	3,960		\$1,524,600	\$457,380
BLR	1330' w/o 35th Ave to 35th Ave	96	0.25	t	1,320		\$640,200	\$192,060
BLR	35th Ave to 660' w/o 31st Ave	96	0.38	t	2,006		\$973,104	\$291,931
BLR	660' w/o 31st Ave to 125' e/o 29th Dr	72	0.38	t	2,006		\$922,944	\$276,883
BLR	125' e/o 29th Dr to 27th Ave	66	0.25	t	1,320		\$475,200	\$142,560
BLR	27th Ave to 19th Ave	84	1.00	t	5,280		\$2,296,800	\$689,040
BLR	19th Ave to 7th Ave	72	1.00	t	5,280	\$535	\$2,824,800	\$847,440
	y Rd (BWR), 43rd Ave to 23rd Ave			1				
		36	0.98	200.0%	10,349	\$166	\$1,717,901	\$515,370
BWR	43rd Ave to 310' w/o 35th Ave	30						
BWR BWR	43rd Ave to 310' w/o 35th Ave 310' w/o 35th Ave to 35th Ave	+			317			\$9,504
	 	24	0.06			\$100	\$31,680 \$528,000	\$9,504 \$158,400

Table 12 - Existing Major Arterial Street Storm Drain Value - Southwest Service Area

	Table 12 - Existing Major After	ui sti cct s	torri bra	- Value	Journ	WC31 30	>1 V I	cc / ii cu	
Street	Segment	Existing SD Pipe Size	Ultimate Length, "L _{ult} " (miles)	Length Modifier	Length of Existing Pipe (Feet)	Pipe Unit Cost		Value of Existing Storm Facility	Value of Storm Facility CB, MH, Laterals (30% of Facility)
Buckeye I	Rd (BR), 75th Ave to 43rd Ave - Full Street								
BR	67th Ave to 530' e/o 67th Ave	66	0.10		528	\$360		\$190,080	\$57,024
BR	530' e/o 67th Ave to 340' w/o 65th Ave	66	0.15		792	\$360		\$285,120	\$85,536
BR	340' w/o 65th Ave to 63rd Ave	66	0.24		1,267	\$360		\$456,192	\$136,858
BR	63rd Ave to 1325' w/o 59th Ave	66	0.25		1,320	\$360		\$475,200	\$142,560
BR	1325' w/o 59th Ave to 59th Ave	48	0.25		1,320	\$211		\$278,520	\$83,556
BR	59th Ave to 55th Ave	36	0.50		2,640	\$166		\$438,240	\$131,472
BR	55th Ave to 51st Ave	30	0.50		2,640	\$121		\$319,440	\$95,832
BR	51st Ave to 43rd Ave	54	1.00		5,280	\$305		\$1,610,400	\$483,120
Subtotal							\$	41,245,740	\$12,373,722
Design (155	%)							\$6,186,861	\$1,856,058
COP Admin	istrative Cost (22%)							\$9,074,063	\$2,722,219
Total Sou	thwest Service Area Existing Storm Drain Value						\$	56,506,664	\$16,951,999

¹⁾ Existing storm drain pipe sizes, lengths, and unit costs provided by the City of Phoenix

²⁾ Storm drain unit costs adapted by the City of Phoenix from JE Fuller, Estrella and Laveen Drainage Structure Cost Analysis (September 2018), p. 16 Table 5

Table 13 - 2020-2029 IIP Major Arterial Street Storm Drain Costs - Southwest Service Area

Table 13 - 2020-2029	iir iviajui	Ai teriai stre	et storm Dr	aiii Costs - 30	2020-2029 IIP
Storm Drain Segment	ID	Diameter (in)	Length (ft)	Pipe Unit Cost	Storm Drain Cost
51st Avenue - Estrella Dr to Elliot R		Brannoton (m.)	201.911 (1.1)	i ipo omit odat	
Segment 1	165	24	1,000	\$100	\$100,000
Segment 2	165	30	1,000		\$121,000
Segment 3	165	36	1,000	\$166	\$166,000
Segment 4	165	42	1,300		\$245,700
Baseline Road - 43rd Ave to 51st Av	ve			<u>'</u>	
Segment 1	153	24	1,000	\$100	\$100,000
Segment 2	153	30	1,000	\$121	\$121,000
Segment 3	153	30	1,000	\$121	\$121,000
Segment 4	153	36	1,300	\$166	\$215,800
Dobbins Road - 19th Ave to 27th A	ve			<u>'</u>	
Segment 1	176	42	1,000	\$189	\$189,000
Dobbins Road - 27th Ave to 35th A	ve			<u>'</u>	
Segment 1	173	42	1,320	\$189	\$249,480
Segment 2	173	42	1,320	\$189	\$249,480
Segment 3	173	54	1,320	\$305	\$402,600
Segment 4	173	60	1,300	\$320	\$416,000
Dobbins Road - 35th Ave to 43rd A	ve			•	
Segment 1	172	60	1,100	\$320	\$352,000
Segment 2	172	66	1,100	\$360	\$396,000
Segment 3	172	72	1,100	\$385	\$423,500
Segment 4	172	78	1,100	\$410	\$451,000
Dobbins Road - 43rd Ave to 47th A	ve				
Segment 1	18	36	2,945	\$166	\$488,870
Dobbins Road - 47th Ave to 51st Av	/e				
Segment 1	20	36	2,726	\$166	\$452,516
Dobbins Road - 51st Ave to 59th Av	<i>r</i> e				
Segment 1	154	24	1,000	\$100	\$100,000
Segment 2	154	30	1,000	\$121	\$121,000
Segment 3	154	30	1,000	\$121	\$121,000
Segment 4	154	36	1,300	\$166	\$215,800
75th Ave - Baseline Rd to Vineyard					
Segment 1	156	36	600	\$166	\$99,600
Segment 2	156	36	600	\$166	\$99,600
Segment 3	156	42	600	\$189	\$113,400
Segment 4	156	42	800	\$189	\$151,200
75th Ave - Vineyard Rd to Southern	n Ave				
Segment 1	155	24	600	\$100	\$60,000
Segment 2	155	36	600	\$166	\$99,600
Segment 3	155	42	600	\$189	\$113,400
(culvert) Segment 4	155	48	800	\$261	\$208,800
75th Ave - Southern Ave to Salt Riv	er				
Segment 1	157	54	700	\$305	\$213,500

Table 13 - 2020-2029 IIP Major Arterial Street Storm Drain Costs - Southwest Service Area

		7 ii torrar otra			2020-2029 IIP
Storm Drain Segment	ID	Diameter (in)	Length (ft)	Pipe Unit Cost	Storm Drain Cost
75th Ave - Salt River to Broadway					
Segment 1	117	78	1,000	\$410	\$410,000
Segment 2	117	78	1,000	\$410	\$410,000
Segment 3	117	84	1,000	\$435	\$435,000
Segment 4	117	84	1,500	\$435	\$652,500
75th Ave - Broadway Rd to Lower	Buckeye				
Segment 1	116	66	1,320	\$360	\$475,200
Segment 2	116	66	1,320	\$360	\$475,200
Segment 3	116	72	1,320	\$385	\$508,200
Segment 4	116	72	1,320	\$385	\$508,200
75th Ave - Lower Buckeye Rd to B	uckeye Rd				
Segment 1	115	66	1,320	\$360	\$475,200
Segment 2	115	66	1,320	\$360	\$475,200
Segment 3	115	66	1,320	\$360	\$475,200
Segment 4	115	66	1,320	\$360	\$475,200
75th Ave - Buckeye Rd to Van Bure	en				
Segment 1	114	54	1,320	\$305	\$402,600
Segment 2	114	60	1,320	\$320	\$422,400
Segment 3	114	66	1,320	\$360	\$475,200
Segment 4	114	66	1,320	\$360	\$475,200
Subtotal	•				\$14,528,346
Design (15%)					\$2,179,252
COP Administrative Cost (22%)					\$3,196,236
Total Southwest Service Area	a 2020-2029	IIP Storm Drain	Cost		\$19,903,834

¹⁾ Existing storm drain pipe sizes, lengths, and unit costs provided by the City of Phoenix

²⁾ Storm drain unit costs adapted by the City of Phoenix from JE Fuller, Estrella and Laveen Drainage Structure Cost Analysis (September 2018)

³⁾ Culvert unit costs adapted by the City of Phoenix from JE Fuller, Estrella and Laveen Drainage Structure Cost Analysis (September 2018)

Table 14 - Existing and 2020-2029 IIP Major Arterial Street Bridge Costs - Northern Service Area

Existing Bridges Street Name	Bridge ID	Length (feet)	Width (feet)	Deck (sq ft)	Unit Cost	Cost
Carefree Highway (2 structures)	182	430	82	35,260	\$151	\$5,324,260
Deer Valley (CAP)	-	200	150	30,000	\$151	\$4,530,000
Sonoran Desert Dr (Skunk Creek)	73	700	110	77,000	\$151	\$11,627,000
Sonoran Desert Dr (Apache Wash)	9	350	68	23,800	\$151	\$3,593,800
Sonoran Desert Dr	-	230	68	15,640	\$151	\$2,361,640
Sonoran Desert Dr (Cave Creek Wash)	13	450	68	30,600	\$151	\$4,620,600
North Valley Pkwy (CAP)	-	450	125	56,250	\$151	\$8,493,750
Subtotal						\$40,551,050
Design (15%)						\$6,082,658
COP Administrative Cost (22%)	\$8,921,231					
Total Northern Existing Bridge Value	\$55,554,939					
2020-2029 IFP Bridges		Length	Width	Deck	Unit	
Street Name	Bridge ID	(feet)	(feet)	(sq ft)	Cost	Cost
North Valley Pkwy ⁽³⁾	11	_	_	_	_	¢24 27E 000
						\$36,375,000
North Valley Pkwy	13	780	120	93,600	\$151	\$36,375,000 \$14,133,600
North Valley Pkwy Cave Creek (CAP)	13 -	780 200	120 50	93,600 10,000	\$151 \$151	
						\$14,133,600
Cave Creek (CAP)		200	50	10,000	\$151	\$14,133,600 \$1,510,000
Cave Creek (CAP) Tatum Blvd (CAP)	-	200 200	50 50	10,000 10,000	\$151 \$151	\$14,133,600 \$1,510,000 \$1,510,000
Cave Creek (CAP) Tatum Blvd (CAP) Deer Valley Dr	- - 264	200 200 100	50 50 140	10,000 10,000 14,000	\$151 \$151 \$151	\$14,133,600 \$1,510,000 \$1,510,000 \$2,114,000
Cave Creek (CAP) Tatum Blvd (CAP) Deer Valley Dr Deer Valley Dr	- - 264 269	200 200 100 100	50 50 140 140	10,000 10,000 14,000 14,000	\$151 \$151 \$151 \$151	\$14,133,600 \$1,510,000 \$1,510,000 \$2,114,000 \$2,114,000
Cave Creek (CAP) Tatum Blvd (CAP) Deer Valley Dr Deer Valley Dr Sonoran Desert Dr	- - 264 269	200 200 100 100	50 50 140 140	10,000 10,000 14,000 14,000	\$151 \$151 \$151 \$151	\$14,133,600 \$1,510,000 \$1,510,000 \$2,114,000 \$2,114,000 \$10,872,000
Cave Creek (CAP) Tatum Blvd (CAP) Deer Valley Dr Deer Valley Dr Sonoran Desert Dr Subtotal	- - 264 269	200 200 100 100	50 50 140 140	10,000 10,000 14,000 14,000	\$151 \$151 \$151 \$151	\$14,133,600 \$1,510,000 \$1,510,000 \$2,114,000 \$2,114,000 \$10,872,000 \$68,628,600

¹⁾ Bridge detail from JE Fuller, North Gateway Drainage Structure Analysis (May 2005); p. 26 Table 4

²⁾ Bridge unit cost provided by Kimley-Horn (April 2019)

³⁾ North Valley Pkwy Bridge ID 11 cost from Gannett Fleming, North Valley Parkway Bridge at Sonoran Wash, Preliminary Engineering and Project Scoping Report (October 2008). Cost shown provided by City of Phoenix Street Transportion Department (May 2019) is exclusive of right-of-way cost and soft costs, and has been adjusted for inflation to April 2019 using ENR BCI.

Table 15 - Existing and 2020-2029 IIP Major Arterial Street Bridge Costs - Southwest Service Area

			,		
Bridge ID	Length (feet)	Width (feet)	Deck (sq ft)	Unit Cost	Cost
-	1,635	82	134,070	\$151	\$20,244,570
					\$20,244,570
					\$3,036,686
					\$4,453,805
					\$27,735,061
Bridge ID	Length (feet)	Width (feet)	Deck (sq ft)	Unit Cost	Cost
-	1,660	82	136,120	\$151	\$20,554,120
					\$20,554,120
					\$3,083,118
					\$4,521,906
				_	\$28,159,144
	- Bridge ID	Length Bridge ID (feet) - 1,635 Length Bridge ID (feet)	Length Width (feet) (feet) - 1,635 82 Length Width Bridge ID (feet) Width Greet) Width Greet) Greet) Greet)	Length Width Deck (feet) (feet) (sq ft) - 1,635 82 134,070 Length Width Deck Bridge ID (feet) (feet) (sq ft)	Length Width Deck Unit

¹⁾ Bridge detail from JE Fuller, North Gateway Drainage Structure Analysis (May 2005); p. 26 Table 4

²⁾ Bridge unit cost provided by Kimley-Horn (April 2019)

Table 16 - Northern Service Area Equity Calculation

Northern Area	Capacity (veh-day)	Capacity (% of Ult.)	EDU	EDU (% of BuildOut)	EDU % / Capacity % Ratio
Existing (2019) Major Arterial Roadways	1,638,657	23.8%	50,137	20.1%	0.84
10-Year IIP (2020-2029) Major Arterial Roadways	834,812	12.1%	31,514	12.6%	1.04
Ultimate Major Arterial Roadways	6,872,886	100.0%	249,682	100.0%	1.00

Table 17 - Southwest Service Area Equity Calculation

Southwest Area	Capacity (veh-day)	Capacity (% of Ult.)	EDU	EDU (% of BldOut)	EDU % / Capacity % Ratio
Existing (2019) Major Arterial Roadways	1,121,959	70.9%	71,975	58.5%	0.83
10-Year IIP (2020-2029) Major Arterial Roadways	410,439	25.9%	33,312	27.1%	1.04
Ultimate Major Arterial Roadways	1,582,228	100.0%	123,010	100.0%	1.00

Table 18 - Northern Service Area Gross Fee Calculation

NORTHERN SERVICE AREA EXISTING	AMOUNT
Existing Major Arterial Roadway Value	\$85,332,980
Existing Major Arterial Culvert Value	\$13,713,015
Existing Major Arterial Bridge Value	\$55,554,939
Total Value - Existing Major Arterial Network	\$154,600,934
NORTHERN SERVICE AREA 2020-2029 PLANNED	AMOUNT
2020-2029 Planned Major Arterial Roadway Cost	\$66,215,251
2020-2029 Planned Major Arterial Culvert Cost	\$31,531,441
2020-2029 Planned Major Arterial Bridge Cost	\$94,021,182
Total Cost - 2020-2029 Planned Major Arterial Network	\$191,767,874
NORTHERN SERVICE AREA GROSS FEE CALCULATION	AMOUNT
Existing & 2020-2029 Planned Major Arterial Network Value	\$346,368,807
Adjustment for Pass-Through Traffic	0.72
Major Arterial Network Value, Adjusted for Pass-Through Traffic	\$249,385,541
Adjustment for 2029 Capacity	1.00
Major Arterial Network Value, Adjusted for Excess Capacity	\$249,385,541
2029 Northern Area EDU	81,650
Northern Service Area Gross Fee per EDU	\$3,054

¹⁾ Adjustment for Pass-Through Traffic factors the cost to only apply to traffic with an origin or destination in the service area. This is calculated as 100% minus the pass-through percentage (i.e., the percentage of traffic in the service area with neither an origin or destination in the service area). A pass-through percentage of 28% in the Northern service area was calculated by Kimley-Horn in April 2019 based on StreetLight origin-destination data.

²⁾ Adjustment for 2029 Capacity is based on the Excess Capacity Ratio, which is the ratio of the 2020-2029 EDU as a percent of buildout EDU divided by the 2020-2029 lane miles as a percent of ultimate lane miles. The calculated Excess Capacity Ratio for 2020-2029 for the Northern service area is 1.04. An Excess Capacity Ratio below 1.0 would indicate a disproportionate amount of roadway network capacity is being shouldered by the impact fee program. Because the Excess Capacity Ratio is greater than 1.0, no adjustment factor is needed for the 2029 capacity.

Table 19 - Southwest Service Area Gross Fee Calculation

SOUTHWEST SERVICE AREA EXISTING	AMOUNT
Existing Major Arterial Roadway Value	\$82,175,550
Existing Major Arterial Storm Drain Value	\$73,458,664
Existing Major Arterial Bridge Value	\$27,735,061
Total Value - Existing Major Arterial Network	\$183,369,275
SOUTHWEST SERVICE AREA 2020-29 PLANNED	AMOUNT
2020-29 Planned Major Arterial Roadway Cost	\$28,868,214
2020-29 Planned Major Arterial Storm Drain Cost	\$19,903,834
2020-29 Planned Major Arterial Bridge Cost	\$28,159,144
Total Cost - 2020-29 Planned Major Arterial Network	\$76,931,193
SOUTHWEST SERVICE AREA GROSS FEE CALCULATION	AMOUNT
Existing & 2020-29 Planned Major Arterial Network Value	\$260,300,467
Adjustment for Pass-Through Traffic	0.78
Major Arterial Network Value, Adjusted for Pass-Through Traffic	\$203,034,365
Adjustment for 2029 Capacity	1.00
Major Arterial Network Value, Adjusted for Excess Capacity	\$203,034,365
2029 Southwest Area EDU	105,287
Southwest Area Gross Fee per EDU	\$1,928

¹⁾ Adjustment for Pass-Through Traffic factors the cost to only apply to traffic with an origin or destination in the service area. This is calculated as 100% minus the pass-through percentage (i.e., the percentage of traffic in the service area with neither an origin or destination in the service area). A pass-through percentage of 22% in the Southwest service area was calculated by Kimley-Horn in April 2019 based on StreetLight origin-destination data.

²⁾ Adjustment for 2029 Capacity is based on the Excess Capacity Ratio, which is the ratio of the 2020-2029 EDU as a percent of buildout EDU divided by the 2020-2029 lane miles as a percent of ultimate lane miles. The calculated Excess Capacity Ratio for 2020-2029 for the Southwest service area is 1.04. An Excess Capacity Ratio below 1.0 would indicate a disproportionate amount of roadway network capacity is being shouldered by the impact fee program. Because the Excess Capacity Ratio is greater than 1.0, no adjustment factor is needed for the 2029 capacity.