

# **Attachment A**

## **Five-Year Proposed Capital Improvement Program**

**FY 2016 - 2020**

**Program Summaries**

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**FALCON FIELD AIRPORT**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
<b>FUNDED PROJECTS</b>						
Acute Angle Taxiways	1,212,516	-	-	-	-	1,212,516
Airfield Lighting and Signage Upgrade	175,000	1,107,873	-	-	-	1,282,873
Airport Historic Zone Improvements	871,250	623,979	636,033	-	-	1,875,012
Anzio Ramp Expansion, Access Road and Lighting	-	-	-	-	195,958	195,958
Automated Surface Observing System (ASOS)	51,250	-	-	-	-	51,250
Blast Pads for Runway 4L-22R	456,231	-	-	-	-	456,231
Eastside Taxilane	-	-	-	-	632,553	632,553
Falcon Field Master Plan	-	311,990	-	-	-	311,990
Gate Systems Upgrade	102,500	-	-	-	-	102,500
Hangar Electrical Upgrades	102,500	-	-	-	-	102,500
Higley/Falcon Ramps Reconfiguration and Lighting	-	112,180	1,040,571	-	-	1,152,751
Hot Maintenance Facility	-	-	312,912	-	-	312,912
J-Hangar Rebuild	577,075	-	-	-	-	577,075
Runway 22L Run up Area	-	-	263,318	1,223,406	-	1,486,724
Runway 22R Approach Easement	-	-	-	-	692,293	692,293
Safety Area Improvements	-	-	146,289	1,750,775	2,943,605	4,840,669
Taxiway A and C Reconfiguration	1,856,712	1,777,735	-	-	-	3,634,447

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**FALCON FIELD AIRPORT**

<b>PROJECT TITLE</b>	<b>FY 15/16</b>	<b>FY 16/17</b>	<b>FY 17/18</b>	<b>FY 18/19</b>	<b>FY 19/20</b>	<b>FIVE YEAR PROJECT COST</b>
Tree Removal	-	-	-	181,894	1,234,697	1,416,591
<b>FUNDING SOURCES</b>						
Falcon Field - Capital	2,051,838	900,531	1,117,904	268,249	347,201	4,685,723
Falcon Field - Grants	3,353,196	3,033,225	1,281,219	2,705,932	2,918,649	13,292,221
	<b>5,405,034</b>	<b>3,933,756</b>	<b>2,399,123</b>	<b>2,974,181</b>	<b>3,265,850</b>	<b>17,977,944</b>

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**TRANSPORTATION PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT TOTAL
<b>FUNDED PROJECTS</b>						
<b>Streets</b>						
2013 Streets Cityshare	500,000	1,521,901	1,551,301	-	-	3,573,202
Operating Cost	-	28,485	60,366	94,896	100,485	
Neighborhood Transportation Improvement Projects	20,350	396,063	379,991	-	-	796,404
Operating Cost	-	-	9,204	9,387	9,565	
LRT Crossing West of Dobson	-	-	-	-	236,434	236,434
Railroad Quiet Zone	199,999	205,964	-	-	-	405,963
Operating Cost	-	-	27,458	28,961	31,124	
Roosevelt Road Improvements from Broadway to 8th	128,340	857,206	-	-	-	985,546
Rusted Streetlight Pole Replacement	800,000	710,220	132,378	-	-	1,642,598
Streetlight Spot Improvement	828,000	735,078	267,599	-	-	1,830,677
Traffic Signals - New and Upgrade	970,532	-	-	-	-	970,532
UPRR Crossing Improvements, Dobson and Alma School	250,988	-	-	-	-	250,988
Water Ponding 10th Avenue & Serrine (Lincoln Elem)	206,000	-	-	-	-	206,000
<b>Intelligent Transportation System</b>						
ITS - East Valley Arterial Congestion Monitoring	758,741	-	-	-	-	758,741
Operating Cost	-	25,580	26,455	26,981	27,491	
ITS - Integrate Mesa 9-1-1 Call	87,593	-	-	-	-	87,593
Operating Cost	-	51,907	53,681	56,621	60,850	

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**TRANSPORTATION PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT TOTAL
ITS - Radio Communications Upgrades	451,999	-	-	-	-	451,999
Operating Cost	-	25,580	26,455	26,981	27,491	
ITS - ITS Technology Hardware	251,125	67,598	-	-	-	318,723
MAG ITS Projects	406,625	412,562	420,531	428,892	437,000	2,105,610
Operating Cost	-	4,376	8,752	13,128	17,504	
<b>Storm Sewer</b>						
2nd Avenue and Solomon	2,000,000	-	-	-	-	2,000,000
Emerald Area Drainage	500,000	-	-	-	-	500,000
Royal Palms	200,000	-	-	-	-	200,000
Horne Storm Drain System	2,200,000	-	-	-	-	2,200,000
10th Avenue and Serrine	200,000	-	-	-	-	200,000
<b>Shared Use Paths</b>						
Bike and Ped Pilot projects	5,175	378,040	379,991	-	-	763,206
Dobson Road Pedestrian and Bicycle Route Improvements (Broadway to Main Street)	1,599,245	-	-	-	-	1,599,245
Operating Cost	-	9,892	10,083	10,284	10,478	
Fiesta Paseo Pathway and Micro Park	2,380,642	-	-	-	-	2,380,642
Operating Cost	-	17,248	17,581	17,931	18,270	
Lighting on Consolidated Canal Phase 2, Adobe to Lindsay	60,548	591,212	-	-	-	651,760
Operating Cost	-	9,130	9,442	9,630	9,812	

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**TRANSPORTATION PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT TOTAL
Porter Park Pathway	2,008,348	-	-	-	-	2,008,348
Operating Cost	-	9,892	10,083	10,284	10,478	
Rio Salado Pathway Segment 3	1,000,000	-	-	-	-	1,000,000
Operating Cost	-	9,892	10,083	10,284	10,478	
<b>Transit</b>						
Central Mesa Light Rail Extension (Mesa Share)	1,552,500	-	-	-	-	1,552,500
Gilbert Road Light Rail Extension (Mesa Share)	1,044,017	1,006,824	1,357,426	1,627,253	1,166,535	6,202,055
<b>PLANNED PROJECTS</b>						
<b>Streets</b>						
Street Cityshare Program	-	-	-	527,381	1,129,511	1,656,892
Illuminated Street Name Signs	-	-	-	401,336	408,923	810,259
Right-of-way Improvements	-	-	-	632,856	322,410	955,266
<b>Shared Use Paths</b>						
Dobson Road 'Complete Streets' Main to Loop 202 Red Mtn Fwy	-	-	-	186,678	190,207	376,885
Dobson Road, 'Complete Streets' US 60 to Broadway	-	-	16,056	472,696	2,817,494	3,306,246
Main Street Bicycle 'Complete Streets' Feasibility Study (Gilbert to Sossaman)	-	-	-	-	284,753	284,753
SE Mesa Bike and Pedestrian Path (Segments 2-5)	-	-	-	230,675	2,849,749	3,080,424

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**TRANSPORTATION PROGRAM**

<b>PROJECT TITLE</b>	<b>FY 15/16</b>	<b>FY 16/17</b>	<b>FY 17/18</b>	<b>FY 18/19</b>	<b>FY 19/20</b>	<b>FIVE YEAR PROJECT TOTAL</b>
Shared Use Path - US 60 R.O.W. - West City Limit to Loop 202 San Tan Freeway	-	-	-	-	835,349	835,349
Bike Share Phase 2	-	261,212	272,336	5,005	5,192	543,745
<b>FUNDING SOURCES</b>						
2013 Street Bond	2,128,000	2,967,199	1,951,278	-	-	7,046,477
Future Street Bond	-	-	-	1,792,248	4,710,593	6,502,841
Grants - Gen. Gov.	6,834,895	-	-	-	-	6,834,895
Transit Fund	2,596,517	1,006,824	1,357,426	1,627,253	1,166,535	7,754,555
Local Streets Sales Tax	8,051,355	3,169,857	1,468,905	1,093,271	4,806,429	18,589,817
	<b>19,610,767</b>	<b>7,143,880</b>	<b>4,777,609</b>	<b>4,512,772</b>	<b>10,683,557</b>	<b>46,728,585</b>

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**COORDINATED PROJECTS**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
<b>FUNDED PROJECTS</b>						
1st Avenue Improvements	706,831	4,046,335	-	-	-	4,753,166
Arterial Reconstruction	6,201,259	8,624,101	1,969,869	-	-	16,795,229
Fiesta District Phase II	8,000,000	-	-	-	-	8,000,000
Mesa Drive: 8th Ave. to Main	10,423,717	3,377,388	-	-	-	13,801,105
Operating Cost			44,942	45,836	46,702	
Streets - Economic Development	3,092,201	4,151,946	-	-	-	7,244,147
Waterline Replacement QS13C, QS21A, & QS20D	419,064	6,282,311	-	-	-	6,701,375
Waterline Replacement QS21D, Clark, and Pepper	2,801,184	-	-	-	-	2,861,781
Waterline Replacement QS28B & QS28D	4,038,212	-	-	-	-	4,038,212
<b>PLANNED PROJECTS</b>						
Arterial Reconstruction	-	-	-	4,219,039	8,036,108	12,255,147
Right of Way Improvements	-	-	-	632,856	322,410	955,266
Southern Avenue and Stapley Drive Intersection Improvements	-	-	-	-	1,091,677	1,091,677
Stapley Drive and University Drive Intersection Improvements	-	-	-	-	1,150,270	1,150,270



**Five-Year Proposed Capital Improvement Program - Inflated**

**FY 2016 - 2020**

**COORDINATED PROJECTS**

<b>PROJECT TITLE</b>	<b>FY 15/16</b>	<b>FY 16/17</b>	<b>FY 17/18</b>	<b>FY 18/19</b>	<b>FY 19/20</b>	<b>FIVE YEAR PROJECT COST</b>
Streets - Economic Development	-	-	-	1,500,000	3,000,000	4,500,000
Waterline Replacement QS12B & D	-	-	-	-	-	5,873,858
Waterline Replacement QS13A & C	-	-	-	-	-	4,234,740
Waterline Replacement QS45A & C	-	-	-	-	-	4,576,707
<b>FUNDING SOURCES</b>						
2010 Water Bond	201,259	-	-	-	-	201,259
2013 Street Bond	19,822,612	17,074,489	1,969,869	-	-	38,866,970
2014 Electric Bond	3,917,136	2,017,135	-	-	-	5,934,271
2014 Gas Bond	3,033,367	2,659,513	-	-	-	5,692,880
2014 Wastewater Bond	385,200	390,824	-	-	-	776,024
2014 Water Bond	7,755,012	4,340,120	-	-	-	12,095,132
Future Street Bond	-	-	-	6,351,895	13,600,465	19,952,360
Local Streets Sales Tax	1,500,988	-	-	-	-	1,500,988
	<b>36,615,574</b>	<b>26,482,081</b>	<b>1,969,869</b>	<b>6,351,895</b>	<b>13,600,465</b>	<b>85,019,884</b>

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**PARKS, RECREATION & COMMERCIAL FACILITIES**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
<b>FUNDED PROJECTS</b>						
Baseball Lighting	983,250	-	-	-	-	983,250
Buckhorn Baths Site	2,494,321	-	-	-	-	2,494,321
Cemetery Expansion	526,608	923,564	-	-	-	1,450,172
Eagles Park Development	-	3,100,000	-	-	-	3,100,000
Operating Cost	-	-	284,851	228,347	232,891	
Fiesta Sports Park	5,200,000	-	-	-	-	5,200,000
Operating Cost	-	201,431	205,439	209,323	214,226	
Greenfield Park Urban Fishing Lake	-	276,813	2,223,187	-	-	2,500,000
Operating Cost	-	-	-	252,477	223,797	
Kleinman Park	-	3,550,000	-	-	-	3,550,000
Operating Cost	-	-	137,516	140,252	142,904	
Landscape/Irrigation	1,213,692	146,900	-	-	-	1,360,592
Minor Equipment	188,444	244,555	-	-	-	432,999
Monterey Park Expansion	-	1,321,410	-	-	-	1,321,410
Operating Cost	-	-	205,357	143,080	145,927	
Museum & Cultural Resource Expansion (Federal Building)	2,542,724	421,824	-	-	-	2,964,548
Operating Cost		-	103,420	105,476	107,470	
Pioneer Park Renovations	436,851	-	-	-	-	436,851
Operating Cost	-	90,908	38,858	39,632	40,382	
Playground Upgrades	-	1,198,381	-	-	-	1,198,381
Pool Improvements	388,000	116,679	-	-	-	474,679

= Project schedule has shifted from FY 14/15 adopted plan due to lack of property access or availability of operational resources.

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**PARKS, RECREATION & COMMERCIAL FACILITIES**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
Recreational Facility Upgrades	1,034,500	275,464	-	-	-	1,309,964
Signal Butte & Elliot Park Development	-	-	384,388	2,815,612	-	3,200,000
Operating Cost	-	-	-	-	170,887	
Southeast Mesa Bike & Pedestrian Path	943,365	-	-	-	-	943,365
Operating Cost	-	20,167	20,568	20,957	21,399	
Additional Parks Personnel required for 2012 Park Projects	-	375,526	388,362	409,629	440,227	-
<b>PLANNED PROJECTS</b>						
Baseball Lighting	-	-	-	46,539	484,135	530,674
Landscape/Irrigation Improvements	-	141,914	2,961,353	2,880,048	531,998	6,515,313
Playground Upgrades	-	-	122,501	437,541	453,652	2,212,075
Pool Improvements	-	-	253,379	158,214	306,290	717,883
Recreational Facility Upgrade	-	-	-	275,464	289,576	565,040
<b>FUNDING SOURCES</b>	<b>FY 15/16</b>	<b>FY 16/17</b>	<b>FY 17/18</b>	<b>FY 18/19</b>	<b>FY 19/20</b>	<b>FIVE YEAR PROJECT COST</b>
2012 Park Bond	13,927,703	8,670,047	2,607,575	2,815,612	-	28,020,937
Capital - General Fund	1,497,444	2,123,893	3,337,233	3,558,546	1,209,312	11,726,428
Cemetery	526,608	923,564	-	-	-	1,450,172
Future Park Bond	-	-	-	239,260	856,339	1,095,599
	<b>15,951,755</b>	<b>11,717,504</b>	<b>5,944,808</b>	<b>6,613,418</b>	<b>2,065,651</b>	<b>42,293,136</b>

= Project schedule has shifted from FY 14/15 adopted plan due to lack of property access or availability of operational resources.

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**FIRE PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
<b>FUNDED PROJECTS</b>						
Fire Apparatus Replacement	3,807,336	2,671,542	2,891,478	-	-	9,370,356
Fire Station 203: Relocation	1,567,699	2,827,918	-	-	-	4,395,617
Mesa Regional Dispatch Center	1,046,627	10,949,844	2,737,462	-	-	14,733,933
<b>PLANNED PROJECTS</b>						
Emergency Generator Replacement	-	-	-	530,028	540,565	1,070,593
Fire Apparatus Replacement	-	-	-	4,402,775	3,310,660	7,713,435
Fire Station 205: Rebuild	-	-	-	434,996	1,965,435	2,400,431
Fire Station 221: Eastmark	-	-	-	319,389	1,488,221	1,807,610
Operating Cost	-	-	-	-	1,582,140	
Fire Stations 209, 210: Expansion	-	-	-	184,794	2,073,412	2,258,206
Fire Stations 213, 214: Expansion	-	-	-	197,837	2,236,526	2,434,363
Fire Stations: Land Acquisition for New Stations	-	-	-	2,636,900	-	2,636,900
Public Safety Training Facility Improvements: Audio-Visual Training Classroom	-	-	-	251,218	2,348,451	2,599,669
Fire Station 222: Battalion Headquarters	-	-	-	-	444,517	444,517
Fire Operations Center	-	-	-	-	97,387	97,387
<b>FUNDING SOURCES</b>						
2013 Public Safety Bond	6,109,977	16,115,326	5,087,500	-	-	27,312,803
Future Public Safety Bond	-	-	-	8,258,812	15,622,017	23,880,829
Capital - General Fund	311,685	333,978	541,439	699,125	465,297	2,351,525
	<b>6,421,662</b>	<b>16,449,304</b>	<b>5,628,939</b>	<b>8,957,937</b>	<b>16,087,314</b>	<b>53,545,157</b>

## Five-Year Proposed Capital Improvement Program Forecast - Inflated

FY 2016 - 2020

**POLICE PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
<b>FUNDED PROJECTS</b>						
Police Holding Facility Improvements	1,620,000	-	-	-	-	1,620,000
<b>PLANNED PROJECTS</b>						
Central Basement Refurbishment	-	-	-	323,812	2,953,274	-
Central Community Media Room	177,100	-	-	-	-	177,100
Eastside Improvements at Phx-Mesa Gateway Airport	-	-	-	-	490,304	490,304
Evidence Shelving	500,000	-	-	-	-	500,000
Headquarters Facility Remodel	-	-	-	458,821	4,368,643	4,827,465
Metro Building Remodel	-	-	-	192,980	2,665,706	2,858,686
Metro Building Site Hardening	-	-	-	788,208	-	788,208
Police Aviation (Helicopter)	-	-	-	3,648,890	-	3,648,890
Police Shooting Range Expansion	-	-	-	826,963	-	826,963
Public Safety Training Facility - Resurface Driving Track	-	2,637,960	-	-	-	2,637,960
Red Mountain Substation Expansion	-	-	-	1,508,310	9,672,273	11,180,583
<b>FUNDING SOURCES</b>						
2013 Public Safety Bond	1,620,000	-	-	-	-	1,620,000
Capital - General Fund	677,100	2,637,960	-	-	-	3,315,060
Future Public Safety Bond	-	-	-	7,747,984	20,150,200	27,898,184
	<b>2,297,100</b>	<b>2,637,960</b>	<b>-</b>	<b>7,747,984</b>	<b>20,150,200</b>	<b>32,833,244</b>

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**COMMUNICATIONS PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
<b>FUNDED PROJECTS</b>						
Communications Building Improvements	847,759	-	-	-	-	847,759
TOPAZ Voice Radio Network Equipment Upgrade	3,633,828	433,828	433,828	433,828	433,828	5,369,140
<b>PLANNED PROJECTS</b>						
Network Fiber Refresh	-	-	-	827,345	872,653	1,699,998
Future Fiber to Radio Network Backbone Sites	-	-	-	1,551,273	1,636,223	3,187,496
Microwave Network Replacement	-	-	-	-	1,251,173	1,251,173
Regional Communications Authority (Joint w/ City of Phoenix)	-	-	-	775,650	-	775,650
VHF Radio System	900,000	900,000	500,000	-	-	2,300,000
<b>FUNDING SOURCES</b>						
2013 Public Safety Bond	3,047,759	-	-	-	-	3,047,759
Future Public Safety Bond	-	-	-	2,326,923	2,887,396	5,214,319
Capital - General Fund	2,333,828	1,333,828	933,828	1,261,173	1,306,481	7,169,138
	<b>5,381,587</b>	<b>1,333,828</b>	<b>933,828</b>	<b>3,588,096</b>	<b>4,193,877</b>	<b>15,431,216</b>

**Five-Year Proposed Capital Improvement Program - Inflated**

**FY 2016 - 2020**

**ELECTRIC PROGRAM**

Major Program Name	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
<b>FUNDED PROJECTS</b>						
Electric Distribution - Overhead	781,471	792,881	725,896	-	-	2,300,248
Electric Distribution - Underground	2,235,653	2,241,380	2,284,679	-	-	6,761,712
Electric Generation	265,265	269,138	274,338	-	-	808,741
Electric Master Plan	159,159	-	-	-	-	159,159
Electric Metering	794,948	828,024	841,625	872,176	886,819	4,223,592
Electric New Services	1,061,060	1,076,552	1,097,348	-	-	3,234,960
Electric Smart Grid	169,770	172,248	175,576	-	-	517,594
Electric Substation Improvements	1,430,385	1,259,556	1,124,782	-	-	3,814,723
Electric Transmission	206,676	107,655	109,734	-	-	424,065
Substation to Park Conversion	116,717	-	-	-	-	116,717
<b>FUNDING SOURCES</b>						
2014 Electric Bond	6,823,630	6,333,422	6,213,166	-	-	19,370,218
Utility RER	397,474	414,012	420,813	872,176	886,819	2,991,294
	<b>7,221,104</b>	<b>6,747,434</b>	<b>6,633,978</b>	<b>872,176</b>	<b>886,819</b>	<b>22,361,511</b>

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**NATURAL GAS PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT TOTAL
<b>FUNDED PROJECTS</b>						
<b>Natural Gas Growth</b>						
Gas Meters: New and Replacement	743,289	772,635	781,502	853,920	866,416	4,017,762
Gas System: New Mains	3,178,375	3,386,018	3,624,000	-	-	10,188,393
Gas System: New Services	2,156,755	2,297,656	2,369,698	-	-	6,824,109
High Pressure Gas Main Installations	657,853	700,829	750,084	-	-	2,108,766
Magma Utility Service Center	-	-	503,123	-	-	503,123
McDowell and Greenfield Regulator Station	12,621	321,603	-	-	-	334,224
Meridian and Queen Creek GRS97 Redesign	-	264,069	-	-	-	264,069
Meridian Rd Intermediate Pressure Cross-Tie; Queen Creek Rd to Ocotillo Rd	364,270	-	-	-	-	364,270
Regulator Station, Hawes: McKellips Road to Hermosa Vista 4-inch Steel HP	76,258	883,431	-	-	-	959,689
Regulator Station, Higley; McDowell to Thomas - 4-inch Steel HP	123,893	1,474,154	-	-	-	1,598,047
<b>Gas Aging Infrastructure</b>						
Center Street Gas Line Replacement from University to Brown	21,531	554,075	-	-	-	575,606
Cooper Rd. Main Replacement 4" PE	704,535	-	-	-	-	704,535
Gas Main Replacements - Magma Service Area	438,879	475,547	517,724	-	-	1,432,150
Gas System: Aging Infrastructure Replacement	2,393,929	2,593,936	2,823,999	-	-	7,811,864



## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**NATURAL GAS PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT TOTAL
McKellips Road: North Boulder Mountain to 98th Place 4-inch PE	472,313	-	-	-	-	472,313
Meridian and Combs 4-inch Line Replacement	528,957	-	-	-	-	528,957
Power and Elliot Regulator Station	304,246	-	-	-	-	304,246
SCADA System for the Natural Gas Distribution System	270,270	67,129	92,576	-	-	429,975
Southern Avenue: Greenfield Road to 48th Street HP/IP Gas Main	553,961	-	-	-	-	553,961
University; Alma School to Country Club	-	-	32,761	-	-	32,761
<b>Gas System Reinforcement</b>						
District Regulator Station, Skyline and Circle Cross Ranch	2,664,522	-	-	-	-	2,664,522
McDowell Road; 80th Street to Hawes Road 4-inch PE	507,024	-	-	-	-	507,024
Power Road and Brown Road Cross-Tie	49,946	428,568	-	-	-	478,514
Regulator Station Security	56,353	58,154	60,297	-	-	174,804
<b>FUNDING SOURCES</b>						
2014 Gas Bond	15,908,136	13,891,487	11,170,240	-	-	40,969,862
Utility RER	371,645	386,318	390,751	853,920	866,416	2,869,049
	<b>16,279,780</b>	<b>14,277,804</b>	<b>11,560,991</b>	<b>853,920</b>	<b>866,416</b>	<b>43,838,911</b>
<b>NATURAL GAS CATEGORIES</b>						
Growth	7,313,314	10,100,395	8,028,407	853,920	866,416	27,162,452
Aging Infrastructure	5,688,621	3,690,687	3,472,287	-	-	12,851,595
System Reinforcement	3,277,845	486,722	60,297	-	-	3,824,864
	<b>16,279,780</b>	<b>14,277,804</b>	<b>11,560,991</b>	<b>853,920</b>	<b>866,416</b>	<b>43,838,911</b>

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016-2020

**WASTEWATER PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT TOTAL
<b>FUNDED PROJECTS</b>						
<b>Wastewater Contractual Obligations</b>						
91st Ave Wastewater Treatment Plant Upgrades (Mesa Share)	4,004,701	5,931,920	3,466,586	6,042,165	-	19,445,371
<b>Wastewater Customer Demand in SE Mesa</b>						
Ellsworth Rd. Sewer: Elliot to Ray	247,377	2,074,201	-	-	-	2,321,578
Ellsworth Road Wastewater Line; Ray Road to State Route 24	1,580,681	-	-	-	-	1,580,681
Greenfield Wastewater Reclamation Plant Expansion (Mesa Share Only)	4,160,000	11,951,988	49,258,946	41,863,425	-	107,234,359
Greenfield WRP Primary Odor Control Expansion	2,051,680	-	-	-	-	2,051,680
Pecos Road Relief Sewer, Ellsworth to Power	-	422,381	4,483,702	-	-	4,906,083
Phoenix Mesa Gateway Airport Northeast Area Development Plan	186,180	1,141,915	-	-	-	1,328,095
Phoenix Mesa Gateway Airport Northeast Area Development Plan 18" Line	57,780	357,275	-	-	-	415,055
Rittenhouse Road Sewer: Power Road to East Maricopa Interceptor	2,466,271	-	-	-	-	2,466,271
Warner Road: Power Road to Ellsworth Road	2,984,030	-	-	-	-	2,984,030

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016-2020

**WASTEWATER PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT TOTAL
Wastewater Oversize and Extensions - Cityshare for Oversizing	160,500	162,843	165,989	169,289	-	658,621
Williams Field Road Sewer: Ellsworth to Mountain	2,395,194	-	-	-	-	2,395,194
<b>Wastewater Lifecycle</b>						
6th Street Sulfide Control Station Rehabilitation	586,372	-	-	-	-	586,372
Baseline Rd Biofilter Improvements	63,130	-	-	-	-	63,130
Eagle Crest Lift Station Rehabilitation	-	68,581	642,029	-	-	710,610
Greenfield WRP Equipment Replacement	577,800	961,427	1,081,585	934,881	-	3,555,693
Greenfield WRP Improvements	894,943	3,130,336	1,116,936	1,594,797	-	6,737,012
Greenfield WRP Headworks & Solids Building Duct Upgrades	32,667	970,730	314,899	-	-	1,318,296
Life Station Equipment Replacement	57,780	58,623	59,756	60,944	-	237,103
Northwest WRP Miscellaneous Improvements	3,039,015	551,496	562,150	573,325	-	4,725,986
Northwest WRP Equipment Replacement	577,800	586,236	597,561	609,440	-	2,371,037
Odor Control Station Equipment Replacement	28,890	29,312	29,878	30,472	-	118,552
Rehabilitate Star Valley Lift Station/Sulfide Control Station	-	-	88,529	1,218,881	-	1,307,410

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016-2020

**WASTEWATER PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT TOTAL
Sewer Line Extensions to Unsewered Areas	568,580	576,882	588,026	599,716	-	2,333,204
Sewer Line Rehabilitation	2,262,666	3,496,253	1,174,948	-	-	6,933,867
Southeast WRP Equipment Replacement	115,560	240,356	119,513	121,888	-	597,317
Southeast WRP Misc Improvements 2	225,342	175,871	-	-	-	401,213
Small Wastewater Line Repair/Replacement	1,048,565	1,061,739	1,082,249	1,103,765	-	4,296,318
Wastewater Line Condition Assessment	287,830	292,032	297,674	303,591	-	1,181,127
Wastewater Manhole Rehabilitation	770,755	782,007	797,114	812,960	-	3,162,836
<b>PLANNED PROJECTS</b>						
<b>Wastewater Contractual Obligations</b>						
91st Ave Wastewater Treatment Plant Upgrades (Mesa Share)	-	-	-	-	7,801,769	7,801,769
<b>FUNDING SOURCES</b>						
2010 Wastewater Bond	8,870,695	3,043,800	-	-	-	11,914,495
2014 Wastewater Bond	22,561,394	31,983,604	65,928,070	56,039,539	-	176,512,606
Future Wastewater Bond	-	-	-	-	7,801,769	7,801,769
	<b>31,432,089</b>	<b>35,027,404</b>	<b>65,928,070</b>	<b>56,039,539</b>	<b>7,801,769</b>	<b>196,228,871</b>
<b>WASTEWATER CATEGORIES</b>						
Lifecycle	11,137,695	12,984,881	8,552,847	7,964,660	-	40,640,083
Contractual Obligations	4,004,701	5,931,920	3,466,586	6,042,165	7,801,769	27,247,141
Customer Demand SE Mesa	16,289,693	16,110,603	53,908,637	42,032,714	-	128,341,647
	<b>31,432,089</b>	<b>35,027,404</b>	<b>65,928,070</b>	<b>56,039,539</b>	<b>7,801,769</b>	<b>196,228,871</b>

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**WATER PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
<b>FUNDED PROJECTS</b>						
<b>Water Contractual Obligations</b>						
Val Vista Pipelines to City Zone Reservoirs and Val Vista Water Treatment Plant	9,831,163	4,616,651	-	-	-	14,447,814
Val Vista Water Treatment Plant - Mesa Share	4,521,797	5,146,066	1,606,728	-	-	11,274,591
White Mountain Apache Water Settlement	-	3,884,884	3,941,721	-	-	7,826,605
<b>Water Customer Demand SE Mesa</b>						
Waterline in Grand Canyon Drive and Silver Street	-	149,523	903,490	-	-	1,053,013
Waterline in Mustang Street	-	-	131,384	786,377	-	917,761
Waterline SE Loop Road	-	148,469	890,835	-	-	1,039,304
Well Collection Line from DWF8 to DWF7	-	73,116	1,204,368	-	-	1,277,484
Well Collection Line from DWF7 to Pecos	-	73,116	1,204,368	-	-	1,277,484
Desert Well 18 Equip	1,130,559	-	-	-	-	1,130,559
Desert Well 19 Drill and Equip	1,189,764	-	-	-	-	1,189,764
Desert Well 20 Drill and Equip	1,189,764	-	-	-	-	1,189,764
Desert Wells Zone Well Site Acquisition	262,500	266,333	271,478	-	-	800,311
DMB Well 1 on Crismon between Elliot and Warner	-	-	58,639	1,285,376	1,278,639	2,622,654

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**WATER PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
DMB Well 2 on Crismon at Approx Warner	-	-	54,296	1,285,376	1,278,639	2,618,311
Drill and Equip Non-Potable Well for Southeast Mesa	56,146	1,234,019	1,198,064	-	-	2,488,229
Elliot Road: Hawes to Sossaman Road Waterline	226,800	2,905,155	-	-	-	3,131,955
Elliot Road: Signal Butte to Hawes Road Waterline	999,600	14,034,683	-	-	-	15,034,283
Ellsworth Road Waterline; SR 24 to Pecos	261,115	3,314,993	-	-	-	3,576,108
Falcon Field Pump Station at Signal Butte Water Treatment Plant	848,400	860,787	-	-	-	1,709,187
Meridian Drive Waterline: Guadalupe Road South to SRP Easement	562,489	-	-	-	-	562,489
Waterline in Gateway Blvd	289,800	1,682,837	-	-	-	1,972,637
Signal Butte DW Waterline: Warner to Ray	3,146,850	-	-	-	-	3,146,850
Signal Butte: Ray Road to Williams Field Waterline	231,000	2,344,676	-	-	-	2,575,676
Signal Butte: Reuban Street to Warner Road Waterline	1,365,553	-	-	-	-	1,365,553
Signal Butte Well Collection Line - DW #18 to Reuban Street	588,238	-	-	-	-	588,238
Signal Butte Well Collection Line - DW #18 to Warner	1,053,880	-	-	-	-	1,053,880

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**WATER PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
Signal Butte Water Treatment Plant	4,788,000	62,982,310	53,524,504	-	-	121,294,814
Water and Wastewater Improvements for ASU Polytechnic - Phase II and III	2,810,029	-	-	-	-	2,810,029
Waterline from Central Arizona Project to Signal Butte Water Treatment Plant	10,088,024	-	-	-	-	10,088,024
<b>Water Customer Demand Citywide</b>						
Transfer Station 3 Improvements	6,615,170	-	-	-	-	6,615,170
Water Extensions and Oversized Mains	212,100	215,196	219,353	-	-	646,649
Water Master Plan Update	-	-	-	276,875	-	276,875
<b>Water Lifecycle</b>						
Brown Road WTP Misc. Improvements	890,295	672,490	-	-	-	1,562,785
Brown Road WTP Rehabilitation	4,477,452	2,349,741	2,253,297	-	-	9,080,490
City Well #13 Re-drill and Equip	-	-	54,296	1,340,751	1,302,700	2,697,747
City Well #7 Re-drill	1,212,152	-	-	-	-	1,212,152
City Well #8 Re-drill and Equip	1,212,152	-	-	-	-	1,212,152
City Well #9 Re-drill and Equip	-	53,267	1,260,321	1,278,530	-	2,592,118
DS Pump Station No. 1--Standby Generator	212,100	-	-	-	-	212,100
DW Stations No. 1 --Additional Pump and Standby Generator	676,069	-	-	-	-	676,069

## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**WATER PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
Falcon Field Airport Improvements	380,685	398,114	-	-	-	778,799
Fire Hydrant Meters	10,500	10,653	10,859	-	-	32,012
Fire Hydrant Replacement	397,688	403,494	411,289	419,465	-	1,631,936
Pressure Reducing Valve Station Replacements - Citywide	275,730	-	-	-	-	275,730
Pump Motor & VFD Replacements and Rehab	265,125	268,996	274,193	-	-	808,314
Radio Communication Upgrade at Remote Water Facilities	78,750	208,525	212,554	51,119	-	550,948
Replace Mag Meters at Remote Water Facilities	42,420	74,243	32,903	-	-	149,566
Transfer Station No. 2 -- Manual Transfer Switch	59,654	-	-	-	-	59,654
Waterline Condition Assessment	1,177,050	1,194,235	1,217,305	1,241,505	-	4,830,095
Water Facility Security Enhancements	67,200	33,877	-	-	-	101,077
Waterline Replacement: Center Street- University to 9th Place	74,649	772,561	-	-	-	847,210
Waterline Replacement QS39C	1,964,335	-	-	-	-	1,964,335
Water Meter Replacements	766,500	798,998	836,151	-	-	2,401,649
Water Meter Vault Rehab	949,725	963,591	982,206	-	-	2,895,522
Water Services Extension and Replacements	212,100	215,196	219,353	-	-	646,649



## Five-Year Proposed Capital Improvement Program - Inflated

FY 2016 - 2020

**WATER PROGRAM**

PROJECT TITLE	FY 15/16	FY 16/17	FY 17/18	FY 18/19	FY 19/20	FIVE YEAR PROJECT COST
Water System: Aging Main Rehabilitation and Repairs	99,129	1,047,433	-	-	-	1,146,562
Water Transmission Main Replacements: 3rd Street, 6th Street, and Sistine	-	440,195	4,728,283	-	-	5,168,478
Water Valve Replacement	371,175	376,594	383,869	391,501	-	1,523,139
Waterline Replacement 8th St: Alma School to Country Club	499,937	454,898	-	-	-	954,835
<b>PLANNED PROJECTS</b>						
<b>Water Contractual Obligations</b>						
Val Vista Water Treatment Plant - Mesa Share	-	-	-	3,265,335	6,770,591	10,035,926
<b>FUNDING SOURCES</b>						
2010 Water Bond	1,739,707	-	-	-	-	1,739,707
2014 Water Bond	64,754,670	114,348,878	76,686,827	8,003,833	3,859,978	267,654,186
Future Water Bond	-	-	-	3,265,335	6,770,591	10,035,926
	<b>66,494,377</b>	<b>114,348,878</b>	<b>76,686,827</b>	<b>11,269,168</b>	<b>10,630,569</b>	<b>279,429,819</b>
<b>WATER CATEGORIES</b>						
Lifecycle	16,243,781	10,581,954	12,557,341	4,722,871	1,302,700	45,408,647
Contractual Obligations	14,352,960	13,647,601	5,548,449	3,265,335	6,770,591	43,584,936
Customer Demand in SE Mesa	29,070,366	89,904,127	58,361,684	3,004,087	2,557,278	182,897,542
Customer Demand - Citywide	6,827,270	215,196	219,353	276,875	-	7,538,694
	<b>66,494,377</b>	<b>114,348,878</b>	<b>76,686,827</b>	<b>11,269,168</b>	<b>10,630,569</b>	<b>279,429,819</b>