RESOLUTION NO. 3036

A RESOLUTION ADOPTING THE 2017-2021 CAPITAL IMPROVEMENT PROGRAMS.

Findings:

A. The City's Fiscal Policies state that a five year Capital Improvement Program (CIP) encompassing all City facilities shall be prepared and updated annually.
B. The five year CIP will be incorporated into the City's budget and long range financial planning processes.
C. Changes to the CIP such as the addition of new projects, changes in scope and costs of a project or reprioritization of projects will require City Council or City Manager approval.

THE CITY COUNCIL OF THE CITY OF BEND RESOLVES AS FOLLOWS:

1. To adopt the 2017-2021 Capital Improvement Programs, as shown in Exhibit A.

Adopted by a roll call vote of the Bend City Council on July 20, 2016.

Yes:	Jim Clinton, Mayor	No:
	Doug Knight	
	Victor Chudowsky	
	Sally Russell	
	Nathan Boddie	
	Casey Roats	
	Barb Campbell	

Jim Clinton, Mayor

ATTESTS:

Robyn Christie, City Recorder

APPROVED AS TO FORM:

FOR Mary Winters, Legal Counsel

Resolution to Adopt 2017-2021 Capital Improvement Program
Exhibit A

Accessibility Construction
Five Year Capital Improvement Program (CIP) Schedule

	Cost Estimate Classification *	2016-17	2017-18	2018-19	2019-20	2020-21	5 Year Total
AA11FA South 3rd Street Pedestrian Improvements	3	$ 100,000	$ -	$ -	$ -	$ -	$ 100,000
AA16AA City Wide Accessibility Improvements	4	400,000	300,000				700,000
AA17XX Future ADA Projects	5	767,000	-	-	-	-	767,000
Total Accessibility CIP * **		**$ 1,267,000**	**$ 300,000**	**$ -**	**$ -**	**$ -**	**$ 1,567,000**

*** Cost estimate classifications are based on standards developed by the Association for the Advancement of Cost Engineering International (AACE)**

Estimate Class	Purpose	Project Definition Level	Cost Est. Range
Class 5	Concept or Feasibility	0% to 2%	+100% / -50%
Class 4	Preliminary Engineering	1% to 15%	+50% / -30%
Class 3	Semi-Detailed (30-60% Design)	10% to 40%	+30% / -20%
Class 2	Detailed (60-90% Design)	30% to 70%	+20% / -15%
Class 1	Final (100% Design)	50% to 100%	+15% / -10%
N/A	Not Applicable (For Studies Only)		

***** Development of the Accessibility CIP beyond FY 2017-18 will be incorporated into the 2017-2019 biennial budget process once current year project costs are finalized and projects are prioritized by the Accessibility Manager and Engineering staff.**

Resolution to Adopt 2017-2021 Capital Improvement Program
Exhibit A

Transportation Construction
Five Year Capital Improvement Program (CIP) Schedule

	Cost Estimate Classification *	2016-17	2017-18	2018-19	2019-20	2020-21	5 Year Total
ST11GA Galveston Corridor Improvements	5	$ 225,000	$ -	$ -	$ -	$ -	$ 225,000
ST14CA Sidewalk Design and Projects**	5	140,000	380,000	1,830,000	1,150,000	-	3,500,000
ST14DA Neff and Purcell Sidewalks	5	50,000	350,000	300,000	3,300,000	-	4,000,000
ST14EA City Wide Safety Improvements	5	1,099,000	1,470,000	775,000	-	-	3,344,000
Total Transportation CIP		**$ 1,514,000**	**$ 2,200,000**	**$ 2,905,000**	**$ 4,450,000**	**$ -**	**$ 11,069,000**

*** Cost estimate classifications are based on standards developed by the Association for the Advancement of Cost Engineering International (AACE)**

Estimate Class	Purpose	Project Definition Level	Cost Est. Range
Class 5	Concept or Feasibility	0% to 2%	+100% / -50%
Class 4	Preliminary Engineering	1% to 15%	+50% / -30%
Class 3	Semi-Detailed (30-60% Design)	10% to 40%	+30% / -20%
Class 2	Detailed (60-90% Design)	30% to 70%	+20% / -15%
Class 1	Final (100% Design)	50% to 100%	+15% / -10%
N/A	Not Applicable (For Studies Only)		

** In addition to the amounts listed above, $100,000 will be transferred in Fiscal Year 2016-17 to the Transportation Operations Program for sidewalk construction to be performed by City staff.

Resolution to Adopt 2017-2021 Capital Improvement Program
Exhibit A

General Obligation (GO) Bond Construction
Five Year Capital Improvement Program (CIP) Schedule

	Cost Estimate Classification *	2016-17	2017-18	2018-19	2019-20	2020-21	5 Year Total
ST12CE Reed Mkt: Newberry to 27th	1	$ 30,000	$ 21,000	$ -	$ -	$ -	$ 51,000
ST12CJ Reed Mkt: 3rd to Newberry	1	45,000	10,000	16,000	-	-	71,000
ST12CH 27th Street Reconstruction	5	1,049,300	-	-	-	-	1,049,300
ST12CK 14th St. Reconstruction	5	513,000	3,643,527	-	-	-	4,156,527
ST17CD Powers/Brookswood Roundabout Phase II	3	45,000	-	-	-	-	45,000
Total GO Bond CIP		**$ 1,682,300**	**$ 3,674,527**	**$ 16,000**	**$ -**	**$ -**	**$ 5,372,827**

*** Cost estimate classifications are based on standards developed by the Association for the Advancement of Cost Engineering International (AACE)**

Estimate Class	Purpose	Project Definition Level	Cost Est. Range
Class 5	Concept or Feasibility	0% to 2%	+100% / -50%
Class 4	Preliminary Engineering	1% to 15%	+50% / -30%
Class 3	Semi-Detailed (30-60% Design)	10% to 40%	+30% / -20%
Class 2	Detailed (60-90% Design)	30% to 70%	+20% / -15%
Class 1	Final (100% Design)	50% to 100%	+15% / -10%
N/A	Not Applicable (For Studies Only)		

Resolution to Adopt 2017-2021 Capital Improvement Program
Exhibit A

Airport
Five Year Capital Improvement Program (CIP) Schedule

	Cost Estimate Classification *	2016-17	2017-18	2018-19	2019-20	2020-21	5 Year Total
AP13AA Eastside Helipad/Heliport Phase I & Phase II	2	$ 6,600,000	$ -	$ -	$ -	$ -	$ 6,600,000
AP15DA Wildlife Hazard Assessment	NA	35,000	-	-	-	-	35,000
AP16AA FBO Ramp	4	2,000,000	-	-	-	-	2,000,000
Airport Master Plan Update	5	-	-	-	350,000	-	350,000
AP18XX Runway Ext. EA Phase I	5	-	-	-	500,000	-	500,000
AP19XX Runway Ext. EA Phase II Environmental	5	-	-	-	500,000	-	500,000
AP20XX Runway Ext. Design/Property Acquisition	5	-	-	-	500,000	-	500,000
AP20XX Runway Ext. Construction	5	-	-	-	-	10,000,000	10,000,000
Total Airport CIP		**$ 8,635,000**	**$ -**	**$ -**	**$ 1,850,000**	**$ 10,000,000**	**$ 20,485,000**

Note: Airport capital improvement projects are pending approval of 90% FAA funding and other funding sources for City match.

*** Cost estimate classifications are based on standards developed by the Association for the Advancement of Cost Engineering International (AACE)**

Estimate Class	Purpose	Project Definition Level	Cost Est. Range
Class 5	Concept or Feasibility	0% to 2%	+100% / -50%
Class 4	Preliminary Engineering	1% to 15%	+50% / -30%
Class 3	Semi-Detailed (30-60% Design)	10% to 40%	+30% / -20%
Class 2	Detailed (60-90% Design)	30% to 70%	+20% / -15%
Class 1	Final (100% Design)	50% to 100%	+15% / -10%
N/A	Not Applicable (For Studies Only)		

Resolution to Adopt 2017-2021 Capital Improvement Program
Exhibit A

Water
Five Year Capital Improvement Program (CIP) Schedule

	Cost Estimate Classification *	2016-17	2017-18	2018-19	2019-20	2020-21	5 Year Total
WATER							
WA15HA Water Master Plan Update	N/A	$ 500,000	$ -	$ -	$ -	$ -	500,000
WA15JA Phase 2 South 3rd St. - Water portion	3	1,100,000	-	-	-	-	1,100,000
WA12AA 18th Street Waterline Extension (JR)	2	-	-	478,400	-	-	478,400
WA15BA SDC Methodology Study	N/A	60,000	-	-	-	-	60,000
WA20AX Awbrey Well Supply Expansion	5	-	-	-	2,021,760	-	2,021,760
WA20BX Lafayette Pipe Enlargement	5	-	-	-	250,640	-	250,640
WA20CX College Parallel Pipe Study	N/A	-	-	-	1,215,760	-	1,215,760
WA20DX Valves Operational System Study	N/A	-	-	-	78,000	78,000	156,000
WA21DX Opt Study - Parallel Piping Rock Bluff to Brookswo	N/A	-	-	-	-	1,596,400	1,596,400
WA21EX Opt Study - New Level 5 well - Shirley Ct.	N/A	-	-	-	-	2,830,464	2,830,464
Total Water CIP		**$ 1,660,000**	**$ -**	**$ 478,400**	**$ 3,566,160**	**$ 4,504,864**	**$ 10,209,424**

*** Cost estimate classifications are based on standards developed by the Association for the Advancement of Cost Engineering International (AACE)**

Note: The costs reflected above are growth related projects anticipated over the next 5 years. Total capital outlay included in the City's water rate model and financial planning tool for the 5 year period is $29.55 million. Additional costs not shown within this schedule include ongoing repair & replacement projects and capital equipment used in operations.

Estimate Class	Purpose	Project Definition Level	Cost Est. Range
Class 5	Concept or Feasibility	0% to 2%	+100% / -50%
Class 4	Preliminary Engineering	1% to 15%	+50% / -30%
Class 3	Semi-Detailed (30-60% Design)	10% to 40%	+30% / -20%
Class 2	Detailed (60-90% Design)	30% to 70%	+20% / -15%
Class 1	Final (100% Design)	50% to 100%	+15% / -10%
N/A	Not Applicable (For Studies Only)		

Resolution to Adopt 2017-2021 Capital Improvement Program
Exhibit A

Bridge Creek Intake and Pipeline Replacement, Outback Membrane Water Treatment Plant
Five Year Capital Improvement Program (CIP) Schedule

	Cost Estimate Classification *	2016-17	2017-18	2018-19	2019-20	2020-21	5 Year Total
WA0902 Bridge Creek Intake and Pipeline	1	$ 783,100	$ -	$ -	$ -	$ -	$ 783,100
Total Bridge Creek CIP		**$ 783,100**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 783,100**

*** Cost estimate classifications are based on standards developed by the Association for the Advancement of Cost Engineering International (AACE)**

Estimate Class	Purpose	Project Definition Level	Cost Est. Range
Class 5	Concept or Feasibility	0% to 2%	+100% / -50%
Class 4	Preliminary Engineering	1% to 15%	+50% / -30%
Class 3	Semi-Detailed (30-60% Design)	10% to 40%	+30% / -20%
Class 2	Detailed (60-90% Design)	30% to 70%	+20% / -15%
Class 1	Final (100% Design)	50% to 100%	+15% / -10%
N/A	Not Applicable (For Studies Only)		

Resolution to Adopt 2017-2021 Capital Improvement Program
Exhibit A

Water Reclamation (Sewer)
Five Year Capital Improvement Program (CIP) Schedule

	Cost Estimate Classification *	2016-17	2017-18	2018-19	2019-20	2020-21	5 Year Total
SW11BA Valhalla Sewer Relocation	1	$ 2,000,000	$ -	$ -	$ -	$ -	$ 2,000,000
SW13DA North Area Sewer Capacity Improvements	1	5,669,700	-	-	-	-	5,669,700
SW13EA Colorado Pump Station and Force Main	1	4,525,000	-	-	-	-	4,525,000
SW15AA Plant Interceptor Rehabilitation	5	5,970,000	-	-	-	-	5,970,000
SW16DA Riverhouse Lift Station Hydraulic Upgrade	5	370,000	-	-	-	-	370,000
SW17DA Solids Handling Improvement Technology	5	6,000,000	4,000,000	7,000,000			17,000,000
SW17FA North Interceptor	5	1,000,000	1,000,000	7,000,000	7,000,000	7,000,000	23,000,000
SW17AA WRF Facilities Plan Update	5	-	500,000	-	-	-	500,000
SW18BX Parallel Sewer on Olney Avenue	5	-	605,000	-	-	-	605,000
SW15KA WRF Evaporation Percolation Ponds	5	-	-	1,630,000	-	-	1,630,000
SW19AX Amethyst/Mahogany Street Sewer	5	-	-	710,000	-	-	710,000
SW19BX Mahogany Street/Hwy 97 Sewer	5	-	-	1,050,000	-	-	1,050,000
SW18AA WRF Support Facilities Upgrade	5	-	-	-	2,500,000	-	2,500,000
SW20AX Odor Control Master Plan	NA	-	-	-	1,050,000	-	1,050,000
SW20BX Sewer Storage - Land Acquisition	NA	-	-	-	730,000	-	730,000
SW20EX Plant Interceptor Condition Assessment	5	-	-	-	630,000	-	630,000
SW20FX Collection System Master Plan (Years 6-10)	NA	-	-	-	1,050,000	-	1,050,000
SW20GX Gravity Pipe Condition Assessment	5	-	-	-	210,000	208,000	418,000
Total Water Reclamation CIP		**$ 25,534,700**	**$ 6,105,000**	**$ 17,390,000**	**$ 13,170,000**	**$ 7,208,000**	**$ 69,407,700**

*** Cost estimate classifications are based on standards developed by the Association for the Advancement of Cost Engineering International (AACE)**

Note: The costs reflected above are growth related projects anticipated over the next 5 years. Total capital outlay included in the City's water reclamation rate model and financial planning tool for the 5 year period is $152.32 million. Additional costs not shown within this schedule include ongoing repair & replacement projects and capital equipment used in operations, as well as the projects on the Southeast Interceptor and Secondary Expansion CIP.

Estimate Class	Purpose	Project Definition Level	Cost Est. Range
Class 5	Concept or Feasibility	0% to 2%	+100% / -50%
Class 4	Preliminary Engineering	1% to 15%	+50% / -30%
Class 3	Semi-Detailed (30-60% Design)	10% to 40%	+30% / -20%
Class 2	Detailed (60-90% Design)	30% to 70%	+20% / -15%
Class 1	Final (100% Design)	50% to 100%	+15% / -10%
N/A	Not Applicable (For Studies Only)		

Resolution to Adopt 2017-2021 Capital Improvement Program
Exhibit A

Water Reclamation Facility Secondary Expansion Project
Five Year Capital Improvement Program (CIP) Schedule

	Cost Estimate Classification *	2016-17	2017-18	2018-19	2019-20	2020-21	5 Year Total
SW0802 Secondary Expansion	1	$ 2,353,000	$ -	$ -	$ -	$ -	$ 2,353,000
Total Secondary Expansion CIP		**$ 2,353,000**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 2,353,000**

*** Cost estimate classifications are based on standards developed by the Association for the Advancement of Cost Engineering International (AACE)**

Estimate Class	Purpose	Project Definition Level	Cost Est. Range
Class 5	Concept or Feasibility	0% to 2%	+100% / -50%
Class 4	Preliminary Engineering	1% to 15%	+50% / -30%
Class 3	Semi-Detailed (30-60% Design)	10% to 40%	+30% / -20%
Class 2	Detailed (60-90% Design)	30% to 70%	+20% / -15%
Class 1	Final (100% Design)	50% to 100%	+15% / -10%
N/A	Not Applicable (For Studies Only)		

Resolution to Adopt 2017-2021 Capital Improvement Program
Exhibit A

Southeast Interceptor Project
Five Year Capital Improvement Program (CIP) Schedule

	Cost Estimate Classification *	2016-17	2017-18	2018-19	2019-20	2020-21	5 Year Total
SW0707 Southeast Interceptor Project	3	$ 22,959,500	$ 8,575,000	$ -	$ -	$ -	$ 31,534,500
SW0707 SEI Extension Project - Segments 2S & 3	1	4,637,500	3,402,500	-	-	-	8,040,000
SW17EA East Interceptor (Formerly SEI Phase II North)	5	1,000,000	1,000,000	-	-	-	2,000,000
Total SE Interceptor CIP		**$ 28,597,000**	**$ 12,977,500**	**$ -**	**$ -**	**$ -**	**$ 41,574,500**

*** Cost estimate classifications are based on standards developed by the Association for the Advancement of Cost Engineering International (AACE)**

Estimate Class	Purpose	Project Definition Level	Cost Est. Range
Class 5	Concept or Feasibility	0% to 2%	+100% / -50%
Class 4	Preliminary Engineering	1% to 15%	+50% / -30%
Class 3	Semi-Detailed (30-60% Design)	10% to 40%	+30% / -20%
Class 2	Detailed (60-90% Design)	30% to 70%	+20% / -15%
Class 1	Final (100% Design)	50% to 100%	+15% / -10%
N/A	Not Applicable (For Studies Only)		

Resolution to Adopt 2017-2021 Capital Improvement Program
Exhibit A

Stormwater
Five Year Capital Improvement Program (CIP) Schedule

	Cost Estimate Classification *	2016-17	2017-18	2018-19	2019-20	2020-21	5 Year Total
SR15AA South Awbrey Butte Drainage Study	NA	$ 200,000		$ -	$ -	$ -	$ 200,000
SR15BA South 3rd Street - Stormwater portion	5	150,000	-	-	-	-	150,000
SR15CA Newport Pipe Replacement Design	5	-	-	442,000	-	-	442,000
SR21AX Stormwater Master Plan Update	5	-	-	-	-	130,000	130,000
SR21BX Franklin & Greenwood Underpass	5	-	-	-	-	572,000	572,000
SR21CX Roosevelt & McKinley	5	-	-	-	-	104,000	104,000
Total Stormwater CIP		**$ 350,000**	**$ -**	**$ 442,000**	**$ -**	**$ 806,000**	**$ 1,598,000**

*** Cost estimate classifications are based on standards developed by the Association for the Advancement of Cost Engineering International (AACE)**

Note: The costs reflected above are growth related projects anticipated over the next 5 years. Total capital outlay included in the City's stormwater rate model and financial planning tool for the 5 year period is $4.02 million. Additional costs not shown within this schedule include ongoing repair & replacement projects and capital equipment used in operations.

Estimate Class	Purpose	Project Definition Level	Cost Est. Range
Class 5	Concept or Feasibility	0% to 2%	+100% / -50%
Class 4	Preliminary Engineering	1% to 15%	+50% / -30%
Class 3	Semi-Detailed (30-60% Design)	10% to 40%	+30% / -20%
Class 2	Detailed (60-90% Design)	30% to 70%	+20% / -15%
Class 1	Final (100% Design)	50% to 100%	+15% / -10%
N/A	Not Applicable (For Studies Only)		