



ENGINEERING

Monthly Report

Fiscal Year 2018-2019

October 2018



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Financial Impact Review: Review by the Finance Department determined no significant change to previously published financial information at this time. Future budget adjustments may be needed for projects with significant changes in scope and schedule, but estimates are unknown at this time.

Operational Impact Review: Review by Utility Director, Paul Rheault, determined operational impacts are in line with achieving greater efficiency in our systems.

City of Bend 2019-2023 Capital Improvement Program Project List

Project Name & Number	Project Manager	Current Phase	Project Cost Estimate	Spent to Date	2018-19 Budget	2019-20 Projected	2020-21 Projected	2021-22 Projected	2022-23 Projected	Total 2019-2023	Notes	Budget	Percent Total Cost Est. Spent
Water Reclamation													
1XSEI Southeast Interceptor Projects													
1SP1X SEI Phase 1 Extension	J. MacClanahan	Sub. Complete	6,800,000	6,749,933	100,000	-	-	-	-	100,000			99%
1S2S3 SEI Schedule 2S&3	E. Forster	Sub. Complete	30,585,000	30,304,550	275,000	-	-	-	-	275,000	1		99%
1XSEI Southeast Interceptor			37,385,000	37,054,483	375,000	-	-	-	-	375,000			99%
1XNAS North Area Sewer Projects													
1SNAF North Area Force Main	G. Franklet	Sub. Complete	2,730,000	2,729,255	100,000	-	-	-	-	100,000			100%
1SNAS North Area Gravity Main	G. Franklet	Sub. Complete	2,900,000	2,890,869	100,000	-	-	-	-	100,000			100%
1XNAS North Area Sewer Projects			5,630,000	5,620,124	200,000	-	-	-	-	200,000			100%
North Interceptor Projects													
1SNI1 North Interceptor Phase I	J. MacClanahan	Design	40,000,000	846,965	11,000,000	12,000,000	-	-	-	23,000,000			2%
1SNI2 North Interceptor Phase II & III	Unassigned	Pending	40,200,000	-	-	-	-	6,700,000	6,700,000	13,400,000			0%
North Interceptor Projects			80,200,000	846,965	11,000,000	12,000,000	-	6,700,000	6,700,000	36,400,000			1%
1XWRF Water Reclamation Facility Projects													
1SCAP WRF Capacity Improvements	J. Robertson	Construction	8,000,000	3,735,688	6,465,000	-	-	-	-	6,465,000	1		47%
1SSHI Solids Handling Improvement Project	J. Robertson	Construction	5,500,000	92,732	1,450,000	2,500,000	1,500,000	-	-	5,450,000			2%
1SFPU Facilities Plan Update	J. Robertson	Pending	500,000	-	-	500,000	-	-	-	500,000			0%
1SHWK Headworks	J. Robertson	Pending	2,000,000	-	-	-	-	1,000,000	-	1,000,000			0%
1SSFU Support Facilities Upgrade	J. Robertson	Pending	2,500,000	-	-	-	-	1,250,000	1,250,000	2,500,000			0%
1XWRF Water Reclamation Facility Projects			18,500,000	3,828,420	7,915,000	3,000,000	1,500,000	2,250,000	1,250,000	15,915,000			21%
1SCSE Collection System Enhancement Program	O. Murray	Construction	11,800,000	149,856	2,360,000	2,360,000	2,360,000	2,360,000	2,360,000	11,800,000	*		1%
1SPSD Pump Station Decommissions Program	O. Murray	Construction	8,000,000	279,110	1,465,000	3,000,000	-	-	-	4,465,000			3%
1SBSS Southeast Bend Septic Solutions	S. Martin	Design	2,800,000	1,541,568	1,500,000	-	-	-	-	1,500,000	1		55%
1S036 Drake Lift Station Condition Upgrade	J. Robertson	Planning	3,000,000	-	1,000,000	2,000,000	-	-	-	3,000,000			0%
1SAMM Amethyst Mahogany Street Sewer	E. Forster	Pending	3,440,000	-	-	500,000	470,000	1,470,000	-	2,440,000	1		0%
1SMTI Amethyst Mahogany Diversion	E. Forster	Planning	3,900,379	8,153	500,000	2,400,000	1,000,000	-	-	3,900,000	1		0%
1SWRF Secondary Expansion	J. Robertson	Sub. Complete	43,800,000	41,875,684	3,640,000	-	-	-	-	3,640,000	1		96%
1SPIR Plant Interceptor Rehabilitation	J. Suhr	Construction	7,600,000	1,119,491	7,735,000	-	-	-	-	7,735,000			15%
1SPSO Parallel Sewer on Olney Avenue	Unassigned	Pending	600,000	-	-	600,000	-	-	-	600,000			0%
1SOC1 Odor Control Master Plan	Unassigned	Pending	1,155,000	-	-	-	-	1,155,000	-	1,155,000			0%
1SSLA Sewer Storage - Land Acquisition	Unassigned	Pending	730,000	-	-	-	-	730,000	-	730,000			0%
1SMP1 Collection System Master Plan (Years 6-10)	Unassigned	Pending	750,000	-	-	750,000	-	-	-	750,000			0%
1SGPA Gravity Pipe Condition Assessment	Unassigned	Pending	2,000,000	-	-	-	200,000	200,000	200,000	600,000			0%
Total Water Reclamation Projects			231,290,379	92,323,852	37,690,000	26,610,000	5,530,000	14,865,000	10,510,000	95,205,000			
Stormwater													
1RNPR Newport Pipe Replacement Design	Unassigned	Pending	442,000	-	442,000	-	-	-	-	442,000			0%
1RMP1 Stormwater Master Plan Update	Unassigned	Pending	500,000	-	500,000	-	-	-	-	500,000	1		0%
1RRMC Roosevelt & McKinley	Unassigned	Pending	579,000	-	-	-	104,000	475,000	-	579,000			0%
1RFGU Franklin & Greenwood Underpass	Unassigned	Pending	3,300,000	-	-	-	1,200,000	600,000	1,500,000	3,300,000			0%
1RMNW Minnesota & Wall Stormwater	Unassigned	Pending	250,000	-	-	-	-	-	250,000	250,000			0%
Total Stormwater Projects			5,071,000	-	942,000	-	1,304,000	1,075,000	1,750,000	5,071,000			

City of Bend 2019-2023 Capital Improvement Program Project List

Project Name & Number	Project Manager	Current Phase	Project Cost Estimate	Spent to Date	2018-19 Budget	2019-20 Projected	2020-21 Projected	2021-22 Projected	2022-23 Projected	Total 2019-2023	Notes	Budget	Percent Total Cost Est. Spent
Transportation													
1TR3N Reed Mkt: 3rd to Newberry	G. Sabourin	Sub. Complete	13,600,000	13,437,793	160,000	-	-	-	-	160,000			99%
1TGCI Galveston Corridor Improvements	G. Sabourin	Design	950,000	548,127	265,000	-	-	-	-	265,000			58%
1TBKE Bicycle Greenways	R. Rowan	Planning	900,000	7,609	440,000	225,000	225,000	-	-	890,000			1%
1TMPR Murphy & Parrell Roundabout	G. Sabourin	Sub. Complete	2,580,000	2,577,559	5,000	5,000	-	-	-	10,000			100%
1TNPS Neff and Purcell Intersection Design	S. Burr	Planning	950,000	2,060	200,000	600,000	-	-	-	800,000			0%
1TCSI Citywide Safety Improvements	R. Rowan	Planning	2,940,600	899,492	1,590,600	1,000,000	-	-	-	2,590,600			31%
14th Street Reconstruction Projects													
1T14R 14th St. Reconstruction	G. Sabourin	Construction	4,600,000	4,669,064	1,888,000	-	-	-	-	1,888,000	1		102%
1T14B 14th St. Reconstruction Phase II	G. Sabourin	Construction	6,100,000	4,394,557	4,443,660	-	-	-	-	4,443,660	1		72%
14th Street Reconstruction Projects			10,700,000	9,063,621	6,331,660	-	-	-	-	6,331,660			85%
1XECI Empire Corridor Improvement Projects													
1TECI Purcell Roundabout	S. Burr	Design	2,000,000	684,828	2,000,000	-	-	-	-	2,000,000			34%
1TEC2 Empire Corridor Modernization	S. Burr	Design	1,900,000	-	1,900,000	-	-	-	-	1,900,000			0%
1TEC3 Empire Extension	S. Burr	Design	10,800,000	-	1,600,000	8,500,000	700,000	-	-	10,800,000			0%
1TEC4 Empire & 27th Street Roundabout	S. Burr	Design	3,500,000	-	300,000	2,300,000	700,000	200,000	-	3,500,000			0%
1TEC5 Purcell Butler Market	S. Burr	Planning	2,500,000	-	-	100,000	200,000	2,000,000	200,000	2,500,000			0%
1TEC6 Purcell Modernization	S. Burr	Planning	2,700,000	-	-	100,000	800,000	1,600,000	200,000	2,700,000			0%
1XECI Empire Corridor Improvements Program			23,400,000	684,828	5,800,000	11,000,000	2,400,000	3,800,000	400,000	23,400,000			3%
1TMCI Murphy Corridor Improvement Projects													
1TMC1 RR Bridge Crossing at Brosterhaus & 15th	G. Sabourin	Design	6,739,000	-	842,400	5,896,600	-	-	-	6,739,000			0%
1TMC2 Brosterhaus to 15	G. Sabourin	Design	6,781,200	30,411	673,900	3,706,500	2,400,800	-	-	6,781,200			0%
1TMC3 Brosterhaus RAB	G. Sabourin	Design	2,948,300	-	505,400	252,700	2,190,200	-	-	2,948,300			0%
1TMC4 15th & Murphy RAB	G. Sabourin	Planning	2,948,300	-	-	505,400	252,700	2,190,200	-	2,948,300			0%
1TMC5 Country Club RAB	G. Sabourin	Planning	2,948,300	-	-	-	505,400	252,700	2,190,200	2,948,300			0%
1TMC6 Existing Corridor Improvements Parrell to Brosterhaus	G. Sabourin	Planning	9,634,900	-	-	-	-	1,493,800	2,431,700	3,925,500			0%
1TMCI Murphy Corridor Improvements			32,000,000	30,411	2,021,700	10,361,200	5,349,100	3,936,700	4,621,900	26,290,600			0%
1XCAI Citywide Accessibility Improvement Projects													
1ACAI Citywide Accessibility Improvements	R. Rowan	Sub. Complete	1,111,000	1,132,976	220,000	-	-	-	-	220,000	1		102%
1ADSC Dean Swift Road Corridor	R. Rowan	Planning	60,495	30,691	150,000	-	-	-	-	150,000			51%
1ADIV NE Division Street Corridor	R. Rowan	Planning	500,000	-	500,000	-	-	-	-	500,000			0%
1ACA2 Lodge Pole Drive Corridor	R. Rowan	Pending	315,000	-	-	315,000	-	-	-	315,000			0%
1ACA3 Poplar Street Corridor	R. Rowan	Pending	250,000	-	-	250,000	-	-	-	250,000			0%
1ACA4 SW Truman Hill Taft Silver Lake Corridor	R. Rowan	Pending	440,000	-	-	-	440,000	-	-	440,000			0%
1ACA5 SW Cleveland Avenue Corridor	R. Rowan	Pending	190,000	-	-	-	190,000	-	-	190,000			0%
1ACA6 NW Delaware Avenue Corridor	R. Rowan	Pending	500,000	-	-	-	-	500,000	-	500,000			0%
1ACA7 NW Hill Street Corridor	R. Rowan	Pending	250,000	-	-	-	-	250,000	-	250,000			0%
1ACA8 NW Seismore Street Corridor	R. Rowan	Pending	125,000	-	-	-	-	125,000	-	125,000			0%
1ACA9 Riverwest Neighborhood	R. Rowan	Pending	350,000	-	-	-	-	-	350,000	350,000			0%
1A1CA Riverside Neighborhood	R. Rowan	Pending	350,000	-	-	-	-	-	350,000	350,000			0%
1ACAI Citywide Accessibility Improvements			4,441,495	1,163,667	870,000	565,000	630,000	875,000	700,000	3,640,000			26%
Total Transportation Projects			92,462,095	27,515,674	17,683,960	23,756,200	8,604,100	8,611,700	5,721,900	64,377,860			

City of Bend 2019-2023 Capital Improvement Program Project List

Project Name & Number	Project Manager	Current Phase	Project Cost Estimate	Spent to Date	2018-19 Budget	2019-20 Projected	2020-21 Projected	2021-22 Projected	2022-23 Projected	Total 2019-2023	Notes	Budget	Percent Total Cost Est. Spent
Water													
1WEWL Egypt Waterline	E. Forster	Construction	771,000	474,048	400,000	-	-	-	-	400,000			61%
1WMP1 Water Master Plan Update	Unassigned	Planning	800,000	45,500	750,000	-	-	-	-	750,000			6%
1WAWP Awbrey Well Supply Expansion	Unassigned	Pending	2,021,760	-	-	2,021,760	-	-	-	2,021,760			0%
1WCPS College Parallel Pipe Study	Unassigned	Pending	1,215,760	-	-	1,215,760	-	-	-	1,215,760			0%
1WLPE Lafayette Pipe Enlargement	Unassigned	Pending	250,640	-	-	250,640	-	-	-	250,640			0%
1WVSS Valves Operational System Study	Unassigned	Pending	234,000	-	-	78,000	78,000	78,000	-	234,000			0%
1WSPP Parallel Piping Brookwood to Brosterhaus	Unassigned	Pending	1,596,400	-	-	-	1,596,400	-	-	1,596,400			0%
1WSSC New Water Well Near NE Shirley Court	Unassigned	Pending	2,830,464	-	-	-	2,830,464	-	-	2,830,464			0%
1WRBO Parallel Piping Rock Bluff to Brookwood	Unassigned	Pending	2,940,000	-	-	-	-	2,940,000	-	2,940,000			0%
1WSWO New Water Well Shiloh Site	Unassigned	Pending	2,721,600	-	-	-	-	2,721,600	-	2,721,600			0%
1WBRM Parallel Mains Brosterhaus/Reed Mkt	Unassigned	Pending	1,742,000	-	-	-	-	-	1,742,000	1,742,000			0%
Total Water Projects			17,123,624	519,548	1,150,000	3,566,160	4,504,864	5,739,600	1,742,000	16,702,624			
Total 2019-2023 Capital Improvement Program			345,947,098	120,359,074	57,465,960	53,932,360	19,942,964	30,291,300	19,723,900	181,356,484			

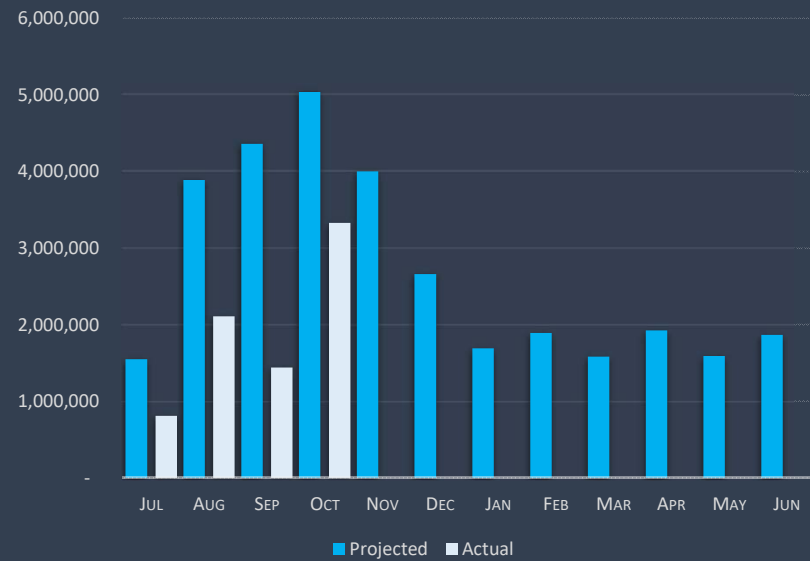
Budget Notes & Revisions

* Capital R&R Program performed by EIPD but not included in the CIP budget documents.
 1- Budget increased/project funded with 2018 fiscal year-end rollover - total adjustment \$342,072

CAPITAL IMPROVEMENT PROGRAM *budget & spending*

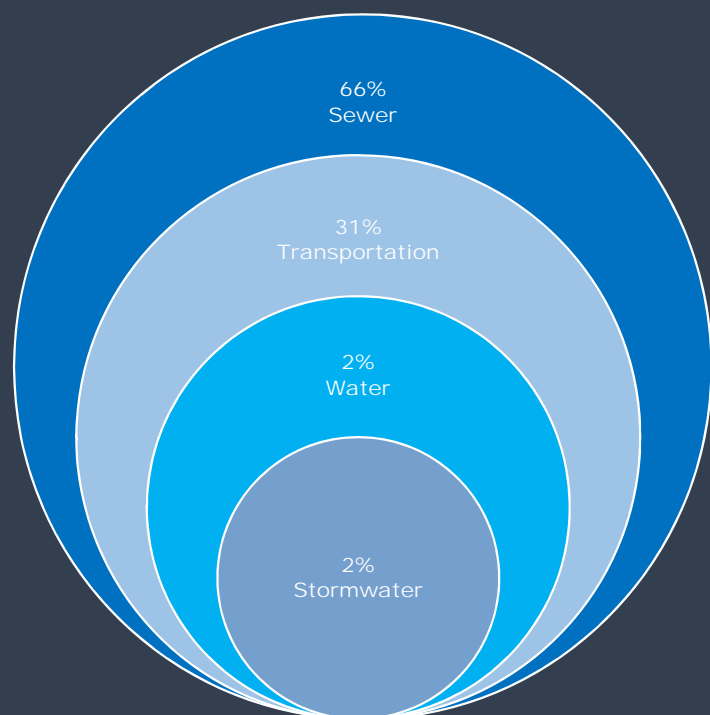
2019 PROJECTED MONTHLY SPENDING

The forecasted spending is based on current contract encumbrances and established project budgets. Projections are updated as projects contract throughout the year.



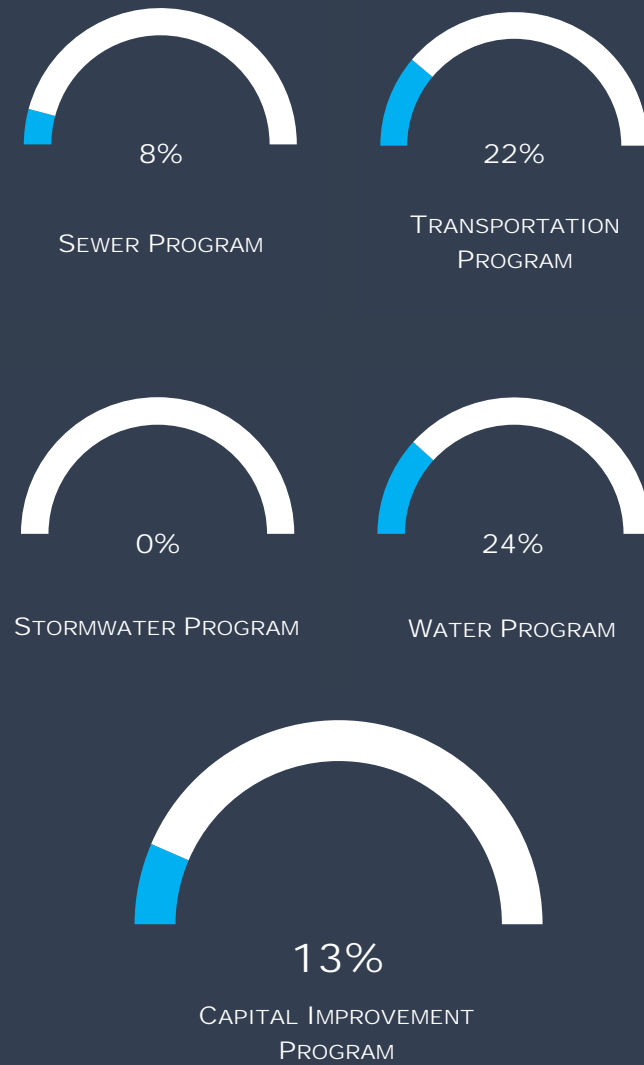
2019 BUDGETS BY PROGRAM

Sewer and Transportation, including Transportation Construction, Accessibility and General Obligation Bond projects, represent the majority of projects budgeted in the 2019 CIP.



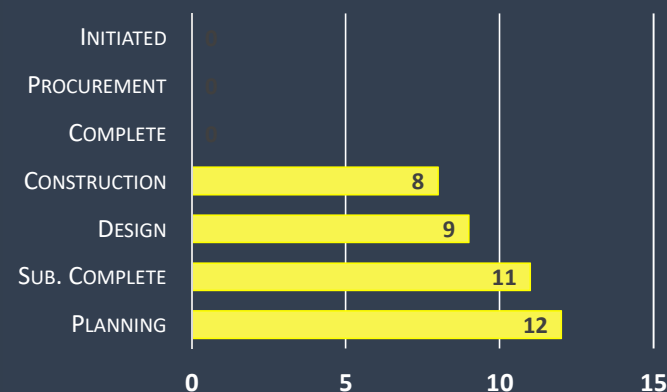
BUDGETS SPENT *by program*

Total percent budget spent FY 2019 for each program.



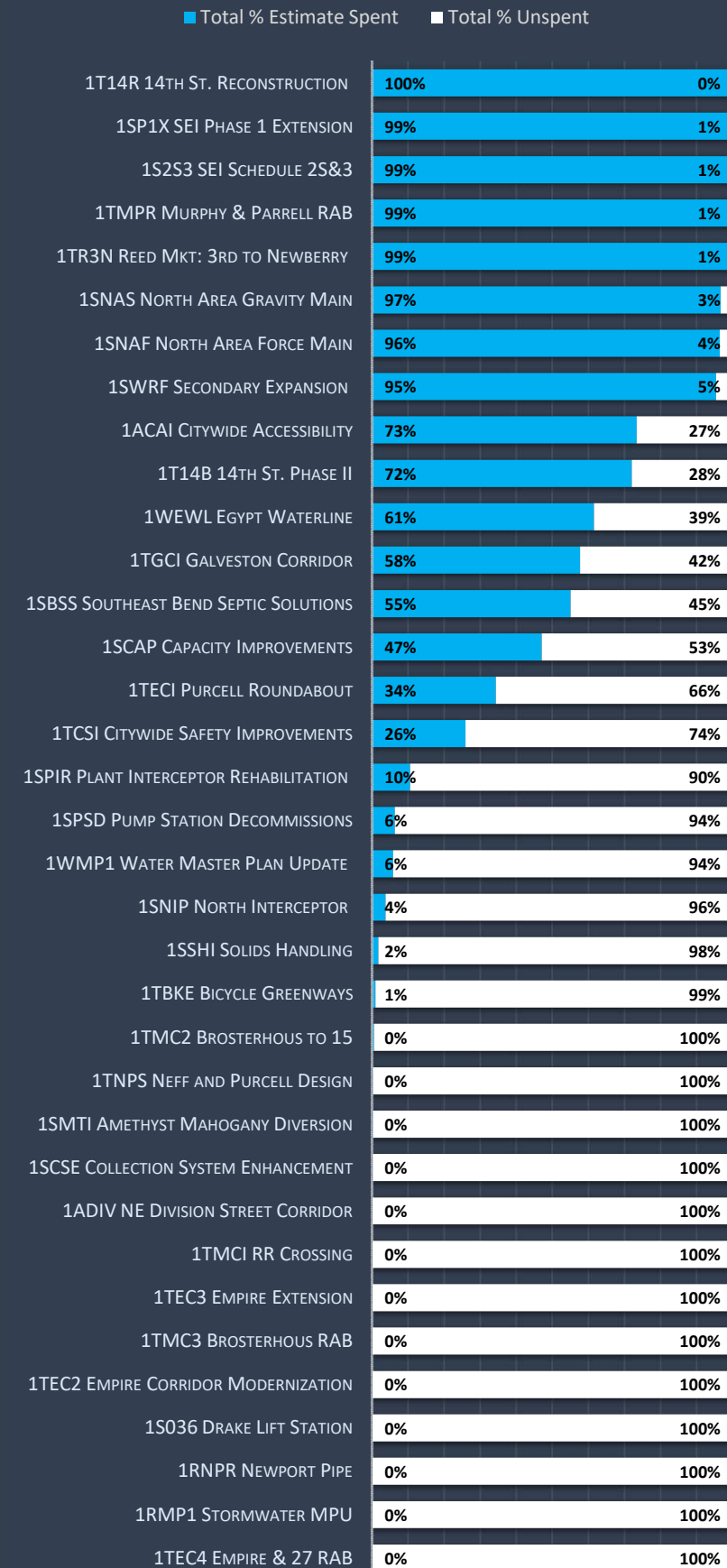
PROJECT PHASE

Of the projects that are active this fiscal year, what phase are they in now in the overall project life cycle?



SPENDING ON ACTIVE PROJECTS

Total percentage of budgets spent over the lifespan of the project for CIP projects that are active in fiscal year 2019.



CLEAN WATER *State Revolving Fund*

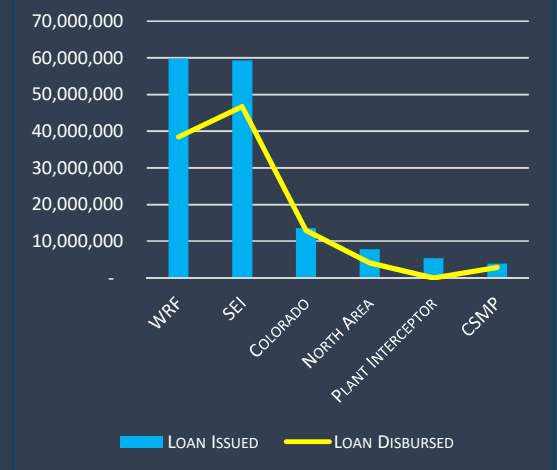
EIPD has participated in the Clean Water State Revolving Fund (CWSRF) loan program since 2011.

The program, administered by the State of Oregon Department of Environmental Quality, provides below market rate loans for the planning, design and construction of various water pollution control activities.

The of Bend has received significant assistance from the CWSRF program. We have over \$150 million in loans issued to date and expect to apply for an additional \$18 million in funding by the end of this fiscal year.

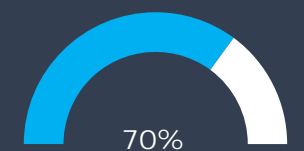
LOANS BY PROJECT

Information is grouped by major project over the life of the program.

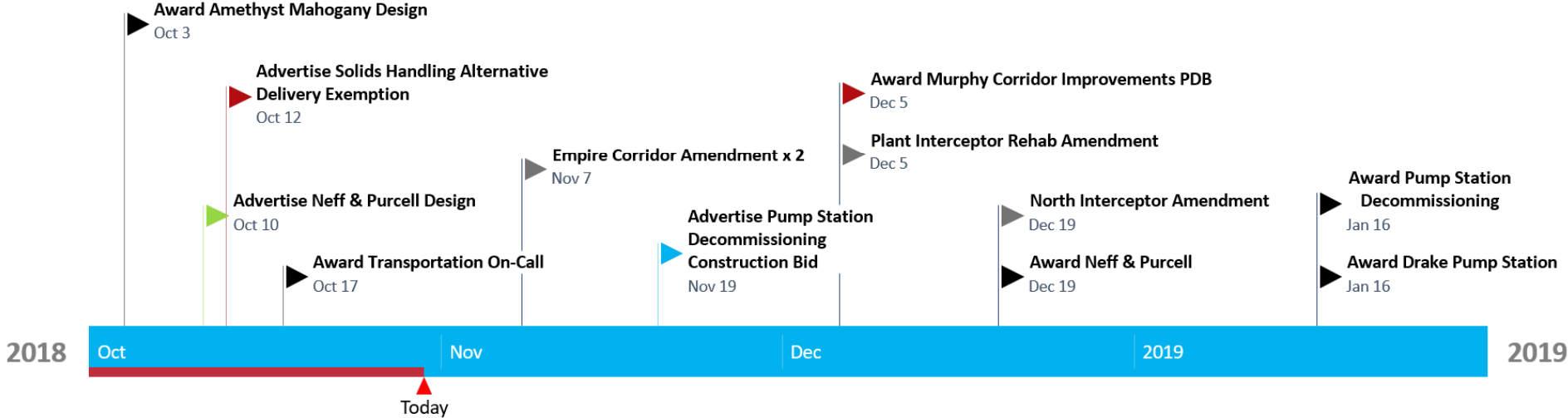


TOTAL AMOUNT DISBURSED

Disbursements are processed monthly for projects active in construction.



EIPD Procurement Timeline



Information provided for forecasting purposes only and subject to change without prior notice.

Key	
	Design RFP Advertised
	Construction Bid Advertised
	CM/OR Advertised
	PDB Advertised
	Design Build Advertised
	Alternative Delivery Exemption Advertised
	Direct Appoint Contract
	Contract Amendment to Council
	Contract Awarded

Collection System Enhancement Program

This program includes approximately 100 capital repair and replacement projects identified in the Collection System Master Plan. The total work scheduled for all projects over the next 25 years is about \$120 million.

Project Manager: Oliver Murray | omurray@bendoregon.gov

	Planning Complete	Design Complete	In Construction	Construction Complete	Close-Out Complete
#97B The Shire Lift Station Decommission	●				
#53 Underwood Lift Station Condition Upgrade	●	●	●		
#27 Pioneer Lift Station Condition Upgrade	●				
#45 Renwick Lift Station Condition Upgrade	●	●	●		
#65A Nottingham #1 Lift Station Decommission - Gravity Sewer Diversion	●				
Riverhouse Lift Station	●	●			
#35 Deschutes Business Lift Station Condition Upgrade	●				
#26 Canal View Lift Station Upgrade	●				
#41 Pacific Lift Station Condition Upgrade	●				
#46 Rimrock #1 Lift Station Condition Upgrade	●				
#47 Rimrock #2 Lift Station Condition Upgrade	●				
#48 Rimrock #4 Lift Station Condition Upgrade	●				
#49 Rimrock #5 Lift Station Condition Upgrade	●				
#42 Poplar Park Lift Station Capacity and Condition					
#62B Camden Lift Station Decommission					
#67A Ridgewater #2 Lift Station Decommission - Gravity Sewer Diversion					
#67B Ridgewater #2 Lift Station Decommission					
#65A Nottingham #1 Lift Station Decommission - Gravity Sewer Diversion					
#66B Nottingham #2 Lift Station Decommission					
#71A&B Old Mill Lift Station Hydraulic Upgrade					
#123 Renaissance Lift Station Condition Upgrade					

Murphy Corridor Improvements Project

Primary Contact: Garrett Sabourin | gsabourin@bendoregon.gov

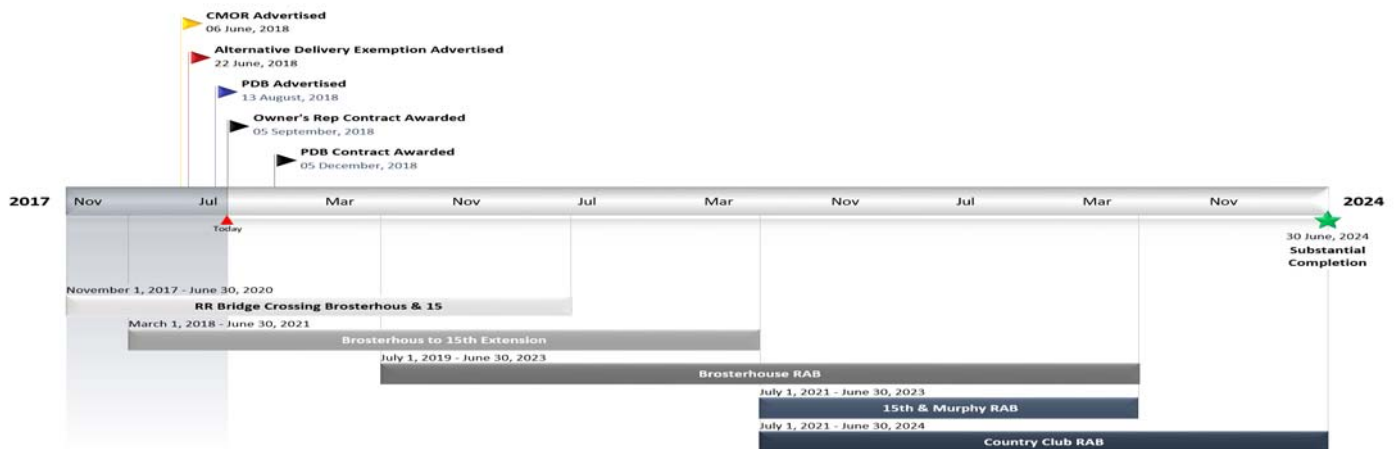
Murphy Road is a collector route located in the SE corner of Bend. The Corridor has undergone several transportation network upgrades over the previous decade and remaining upgrades will be seen between the intersections of Parrell and 15th. Additional improvements shall improve safety, efficiency, connectivity and reliability of the transportation system in SE Bend.



Scope	Schedule	Cost																		
Progressive design build delivery method will be utilized to complete several subprojects, including the Brosterhouse to 15 th Roadway Extension, including Bridge at BNSF Railway Crossing, a roundabouts at Brosterhouse, Country Club, 15th and widening and complete street upgrades at Parrell to Brosterhouse.	Start Date: 11/1/2018	Total Estimated: \$32,000,000																		
	Substantial Completion: 10/31/2022	Spent to Date: \$30,411																		
	Final Closeout: 12/31/2022	% Spent to Estimated: 0.45%																		
		<table border="1"> <thead> <tr> <th>Sub-Projects:</th> <th>Est.</th> <th>Spent</th> </tr> </thead> <tbody> <tr> <td>RR/Bridge Extension</td> <td>\$6,739,000</td> <td>\$0</td> </tr> <tr> <td>B-haus RAB</td> <td>\$6,781,200</td> <td>\$30,411</td> </tr> <tr> <td>15th RAB</td> <td>\$2,948,300</td> <td>\$0</td> </tr> <tr> <td>C. Club RAB</td> <td>\$2,948,300</td> <td>\$0</td> </tr> <tr> <td>Corridor Imp.</td> <td>\$9,634,900</td> <td>\$0</td> </tr> </tbody> </table>	Sub-Projects:	Est.	Spent	RR/Bridge Extension	\$6,739,000	\$0	B-haus RAB	\$6,781,200	\$30,411	15 th RAB	\$2,948,300	\$0	C. Club RAB	\$2,948,300	\$0	Corridor Imp.	\$9,634,900	\$0
Sub-Projects:	Est.	Spent																		
RR/Bridge Extension	\$6,739,000	\$0																		
B-haus RAB	\$6,781,200	\$30,411																		
15 th RAB	\$2,948,300	\$0																		
C. Club RAB	\$2,948,300	\$0																		
Corridor Imp.	\$9,634,900	\$0																		
Status: On Scope	Status: On Schedule	Status: On Budget																		
Adjustments: No change from prior month	Adjustments: No change from prior month	Adjustments: No change from prior month																		

Status Update: Owner's Representative contract approved September 5. Three proposals received for Progressive Design Build (PDB) project delivery contract. Selection process may include interviews of proposers. Award for PDB contract anticipated in December 2018.

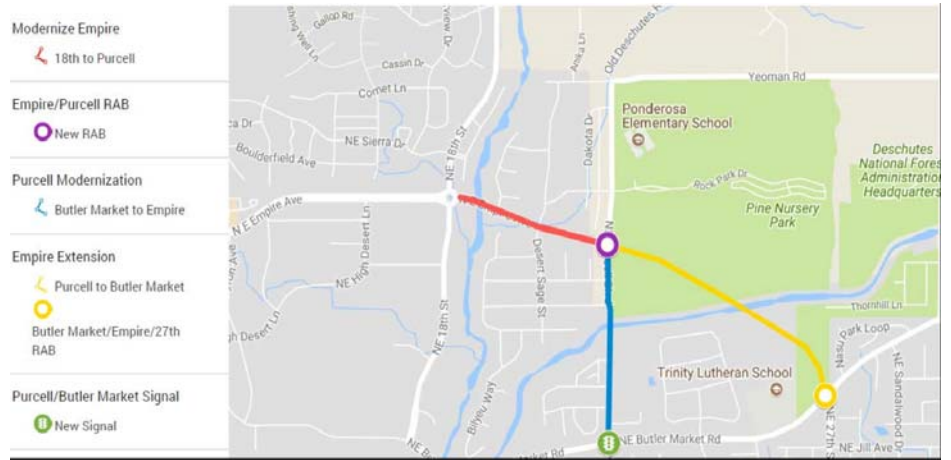
Cost Estimate Classification: 5



Empire Corridor Improvements

Primary Contact: George Franklet | gfranklet@bendoregon.gov

Planning and preliminary design for Empire Avenue began in 2005. In 2017 Council designated it as a high priority for improving the safety, efficiency, and reliability of transportation in northeast Bend. Council identified the design and construction of a roundabout at the Empire/Purcell intersection as the highest priority component of the project.



Scope

Six distinct but interrelated sub-projects are included: Empire/Purcell Roundabout, Empire Avenue Modernization, Purcell Boulevard Modernization, Empire Avenue Extension, Purcell/Butler Market Signal Modernization and 27th Street Roundabout. Due to the complexity of implementing all the related components of the project, a Progressive Design-Build project delivery method will be used.

Schedule

Start Date: 08/1/2017
 Substantial Completion: 5/31/19
 Final Closeout: 5/31/20*

* Current schedule for Empire Ave. Modernization and Empire-Purcell RAB only. Other projects will be added to the timeline at a future date.

Cost

Total Estimated:	\$23,400,000	
Spent to Date:	\$684,828	
% Spent to Estimated:	3%	
Sub-Projects:	Est.	Spent
Purcell RAB	\$2,000,000	\$684,828
Empire Mod	\$1,900,000	\$0
Purcell Mod	\$2,700,000	\$0
Emp Extension	\$10,800,000	\$0
Butler Mkt Sig	\$2,500,000	\$0
Emp/27 RAB	\$3,500,000	\$0

Status: Potential Scope Modification

Adjustments: Butler Market Signal may be modified to a roundabout. Cost estimates reflect this potential change.

Status: On Schedule

Adjustments: Schedule compressed by combining Empire-Purcell RAB and Empire Mod construction schedules.

Status: On Budget

Adjustments: No change from prior month

Status Update: Construction scheduled to start September 10. First stage of construction will be the modernization of Empire Ave to be complete by December 2018. Second stage of construction will include the Purcell RAB to be complete by June 2019. Negotiating contract amendments for design of Phase II which includes the remaining four sub-projects: Purcell Modernization, Empire Extension, Empire Butler Mkt. RAB and Butler Mkt Signal.

Cost Estimate Classification: 5



14th Street Reconstruction

Primary Contact: Garrett Sabourin | gsabourin@bendoregon.gov



Improve safety of corridor between SW Colorado Avenue to NW Newport Avenue for all modes of transportation. Project is part of voter approved General Obligation Bond and will focus on an updated roadway configuration to include surfacing, striping, bike lanes, sidewalks and streetscape. Design will attempt to tie-in with suggested changes being made to the Galveston Corridor Improvements.

Scope

Upgrade to City standard to include but not limited to: roadway, surface, curbs, sidewalks, and striping. Includes safety improvements for bicycles, pedestrians and vehicles. The project will be constructed in two phases. Phase I: Simpson to Albany & Galveston to Newport; Phase II: Donovan to Simpson & Albany to Galveston.

Schedule

Start Date: 06/30/2014
 Substantial Completion: 12/31/2018
 Final Closeout: 12/31/2019

Cost

Total Estimated: \$10,700,000
 Spent to Date: \$9,063,621
 % Spent to Estimated: 85%

Sub-Projects:	Est.	Spent
14 th St. Recon	\$4,600,000	\$4,669,064
Phase II 14 th St.	\$6,100,000	\$4,394,557

Status: On Scope

Status: On Schedule

Status: On Budget

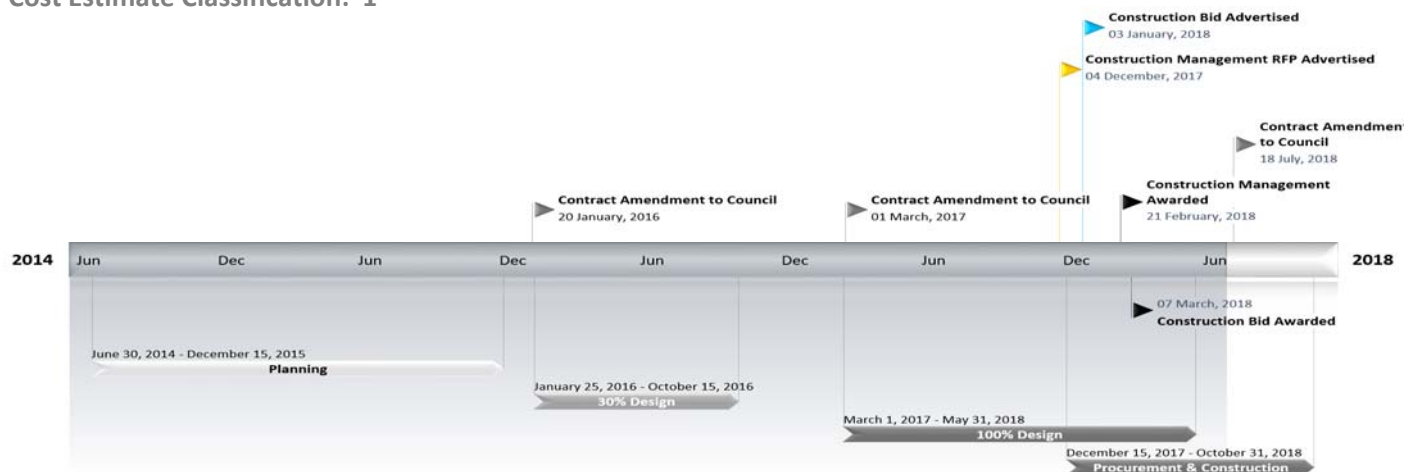
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

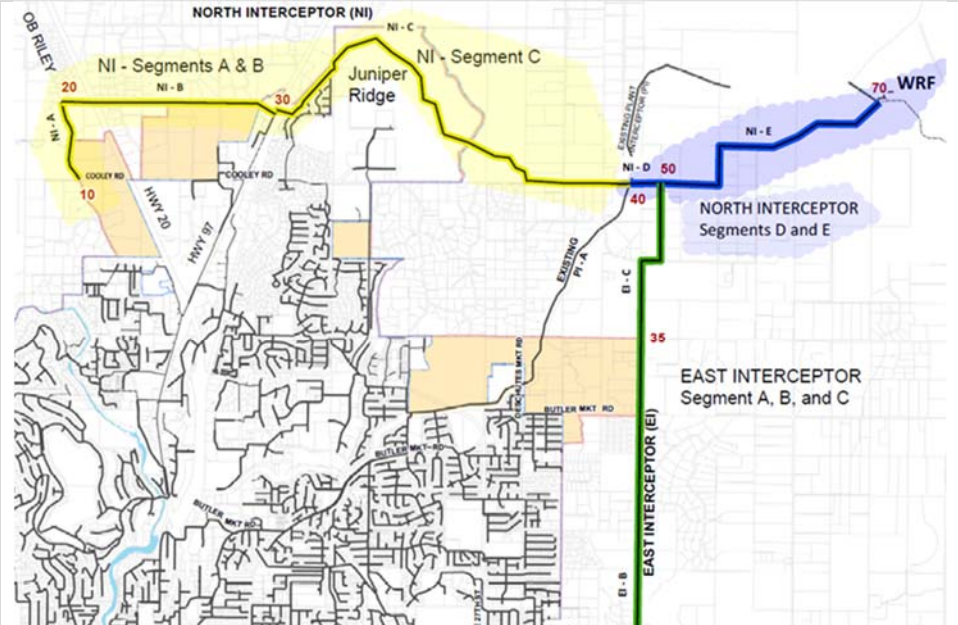
Status Update: Stage II, Galveston to Newport open with only minimal landscape to be completed. Phase II, Albany to Galveston, started September 4 with full closure of 14th Street through substantial completion on October 31.

Cost Estimate Classification: 1



North Interceptor Project Phase I

Sewer Interceptor running east to west on the Northern Edge of Bend's UGB, beginning at Cooley Road and OB Riley Road and running east past the Juniper Ridge development, connecting with existing Plant Interceptor, connecting with the East Interceptor, and continuing further east to deliver untreated waste water to the WRF. Segments NI-D and NI-E are designated as Priority 1 (10,300 feet). Segments NI-A, NI-B, and NI-C are designated a Priority 2 (26,300 feet).



Primary Contact: Eric Forster | eforster@bendoregon.gov

Scope

Design, bid, contract, and build approximately 10,500 feet of gravity sewer, various diameters running along the Northern edge of Bend's UGB. Connects to the WRF.

Schedule

Start Date: 3/1/17
 Substantial Completion: 12/31/2020
 Final Closeout: 12/31/2022

Cost

Total Estimated: **\$40,000,000**
 Spent to Date: \$846,965
 % Spent to Estimated: 2.12%

Status: Scope Increase

Adjustments: Original project did not include canal work. Results of the alternatives analysis indicate the need for a pump station.

Status: Potential Schedule Change

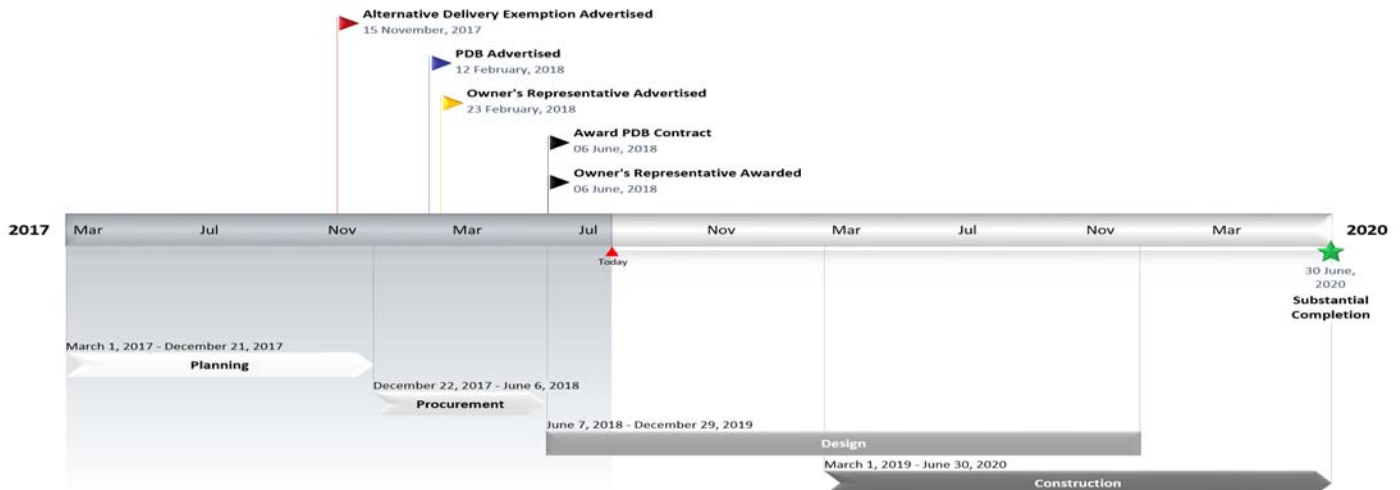
Adjustments: No impact to schedule due to scope increase. Schedule change likely due to early work package.

Status: Potential Budget Increase

Adjustments: Additional budget will be requested during 2019-2021 budget development to cover scope increase.

Status Update: Draft alternatives analysis complete. Notice to proceed (NTP) for design has been issued. Potential for early work package to be issued to allow for boring under the canal to complete canal work prior to spring irrigation.

Cost Estimate Classification: 5



Plant Interceptor Rehabilitation

The existing plant interceptor conveys all of the City's sewage to the WRF. The concrete pipeline is deteriorating due to age as well as the sulfides breaking down the concrete wall. This project will rehabilitate the plant interceptor by designing and constructing a Cured-In-Place Pipe (CIPP) liner to lengthen the operational life of the pipeline. All project aspects were previously identified in the Plant Interceptor Condition Assessment and incorporated into the CSMP projects list.



Primary Contact: Jason Suhr | jsuhr@bendoregon.gov

Scope

Rehabilitate all pipe segments and manholes from Purcell Blvd. to proposed tie in with the North Interceptor with a Cured-In-Place Pipe (CIPP) liner.

Schedule

Start Date: 3/1/2015
 Substantial Completion: 12/31/18
 Final Closeout: 12/31/19

Cost

Total Estimated: \$7,600,000
 Spent to Date: \$1,119,491
 % Spent to Estimated: 15%

Status: On Scope

Status: On Schedule

Status: On Schedule

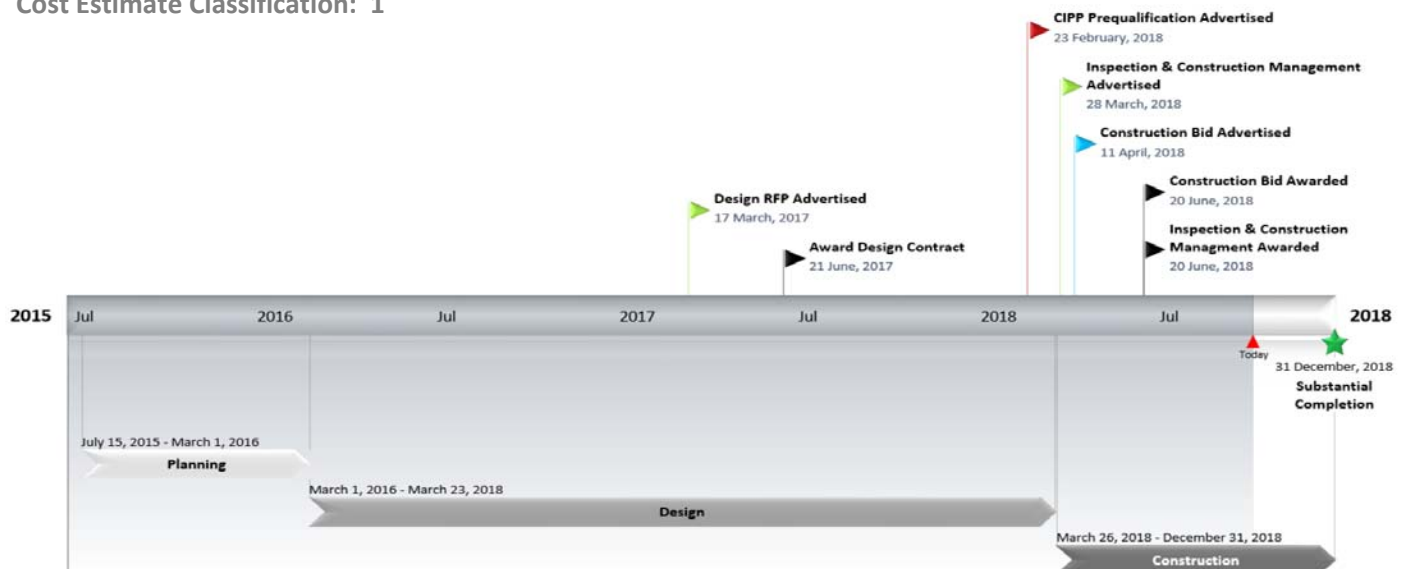
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

Status Update: Construction fencing, erosion control is complete. Bypass pumping will be installed and tested by the end of the month.

Cost Estimate Classification: 1



Solids Handling Improvements

Primary Contact: Josh Robertson | jrobertson@bendoregon.gov

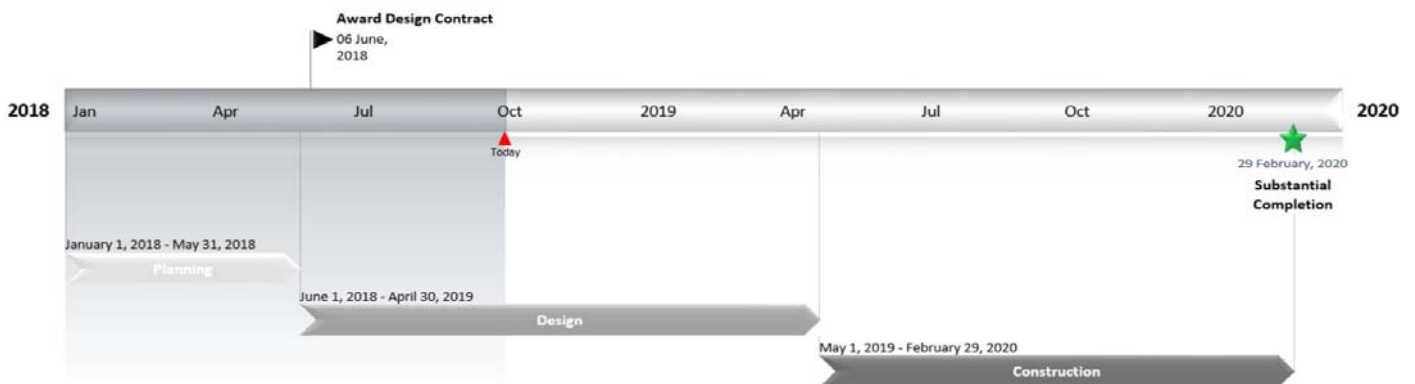
The City of Bend’s Water Reclamation Facility (WRF) solids handling dewatering process has maintenance, redundancy, and operational challenges. The system is nearing capacity and there is heavy corrosion in both the building and on equipment resulting in deterioration of assets.



Scope	Schedule	Cost
The objective of the project is to upgrade the solids dewatering process to ensure (1) increase in dewatering performance while continuing to produce Class A biosolids, (2) increase capacity, (3) increase asset lifespan, and (4) provide safe work environment for staff.	Start Date: 6/1/2018 Substantial Completion: 2/29/2020 Final Closeout: 3/1/2021	Total Estimated: \$5,500,000 Spent to Date: \$92,732 % Spent to Estimated: 2%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: Initiated	Adjustments: Initiated	Adjustments: Initiated

Status Update: Technical memos I and II have been reviewed and are being finalized. Three equipment alternatives have been selected and further design evaluation is under way. Anticipate equipment and procurement method will be selected by the end of the year.

Cost Estimate Classification: 5



Capacity Improvements Project

Provides additional treatment capacity at the Water Reclamation Facility (WRF) in order to ensure the City continues to meet the needs of the community and Department of Environmental Quality (DEQ) permit requirements. Treatment capacity increases from 6.5 MGD to 8.5 MGD when complete with greater flexibility in the future to increase capacity at a much lower cost.



Primary Contact: Josh Robertson | jrobertson@bendoregon.gov

Scope

This project would add plant capacity by retrofitting existing aeration basins to Integrated Fixed-Film Activated Sludge (IFAS) operation, making hydraulic improvements to plant piping and starting up Ultra Violet disinfection systems to replace the current chlorine contact system.

Schedule

Start Date: 4/1/2017
 Substantial Completion: 4/30/19
 Final Closeout: 4/30/2020

Cost

Total Estimated: \$8,000,000
 Spent to Date: \$3,735,688
 % Spent to Estimated: 47%

Status: On Scope

Status: On Schedule

Status: On Budget

Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

Status Update: Aeration basin 3 is complete and is operational. Integrated Fixed-film Activated Sludge (IFAS) media will be installed in basin 3 by the end of the month giving the City two operating IFAS systems (woot!). Work in pump station 22A continues with one of three pumps remaining to install. Yard piping continues.

Cost Estimate Classification: 1



Pump Station Decommissions Program

The cost analysis in the Collection System Master Plan determined the following lift station decommissions: Nottingham Pump Station Connections to SEI, Ridgewater #1, Bridges at Shadow Glen, Tri-Peaks, Crown Villa #1 & #2, Murphy, Quail Ridge #1 & #2, South Village, and Sun Meadow.



Primary Contact: Brittany Park | bpark@bendoregon.gov

Scope

The project consists of decommissioning multiple sewer pump stations throughout the City where gravity sewer diversions have been determined to be viable.

Schedule

Start Date: 3/1/2017
 Substantial Completion: 12/31/2019
 Final Closeout: 12/31/2020

Cost

Total Estimated: \$4,500,000
 Spent to Date: \$279,110
 % Spent to Estimated: 6%

Status: On Scope

Status: Behind Schedule

Status: On Budget

Adjustments: No change from prior month

Adjustments: External coordination efforts have put the schedule behind

Adjustments: No change from prior month

Status Update: Phase I at 90% design with Ongoing negotiations between utility and private owners requiring additional coordination. Phase II progressing on schedule.

Cost Estimate Classification: 4



Amethyst Mahogany Diversion

This project is a sewer diversion structure and pipeline, approximately 1,200 lineal feet in length that will serve the Amethyst-Mahogany sewer collection basin and reroute flows into the recently completed Southeast Interceptor. This action will mitigate capacity constrained segments of the Central Interceptor.

Primary Contact: Jake Sherman | jsherman@bendoregon.gov



Scope

Design and construction of a diversion box and pipeline routing sewer flows to the Southeast Interceptor.

Schedule

Start Date: 7/1/2018
 Substantial Completion: 11/30/2019
 Final Closeout: 11/30/2020

Cost

Total Estimated: \$3,900,000
 Spent to Date: \$8,135
 % Spent to Estimated: 0.21%

Status: On Scope

Status: On Schedule

Status: On Budget

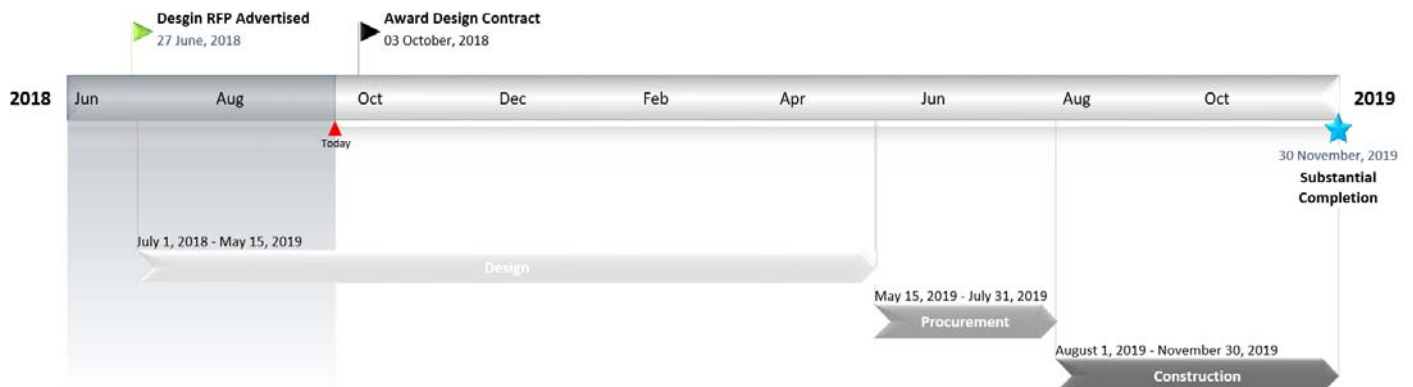
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

Status Update: Contract for design to Council October 3.

Cost Estimate Classification: 5



Neff & Purcell Intersection

Primary Contact: Sinclair Burr | sburr@bendoregon.gov



This intersection and corridor has been highly prioritized by members of the community serving on the City of Bend Accessibility Advisory Committee and a previous safety study. The project will include the following tasks: public engagement, survey, design, and construction of missing sidewalks and a safer intersection for all users serving the surrounding medical, residential, and school properties.

Scope

Improvements to the existing intersection of Neff Road and Purcell Boulevard for all modes of transportation. Improvements to the pedestrian infrastructure to the west of the signal. An alternatives analysis will determine the exact improvements implemented here.

Schedule

Start Date: 8/6/2018
 Substantial Completion: 06/30/2021
 Final Closeout: 06/30/22

Cost

Total Estimated: \$4,000,000
 Spent to Date: \$2,060
 % Spent to Estimated: 0.05%

Status: On Scope

Status: On Schedule

Status: On Budget

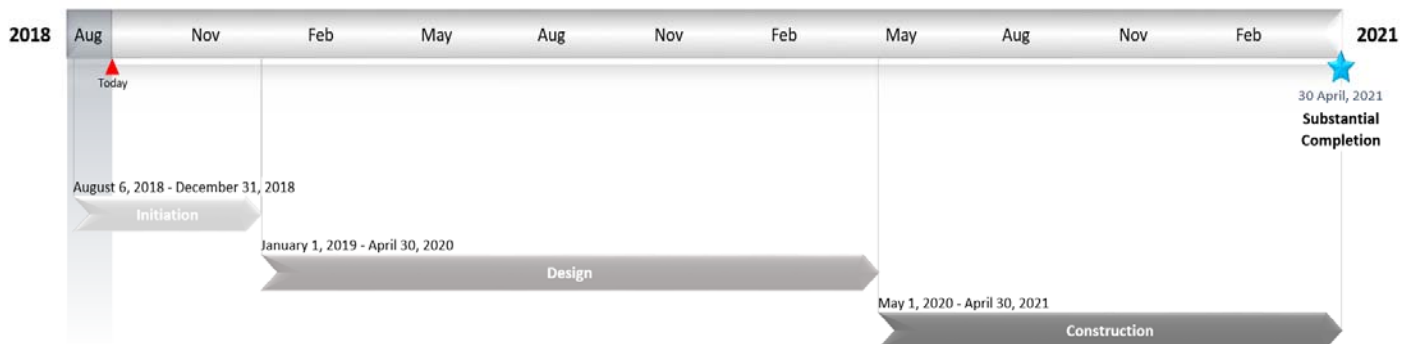
Adjustments: Project initiated

Adjustments: Project initiated

Adjustments: Project initiated

Status Update: Project being chartered with anticipated advertisement for design contract later this fall. Project delivery method is traditional Design, Bid, Build.

Cost Estimate Classification: 5



Southeast Bend Septic to Sewer Solutions

When constructed, existing residences, currently on septic systems, will eventually and systematically connect to the recently constructed South East Interceptor (SEI). This project will require phases to meet constructability limitations and to better meet community involvement requirements.

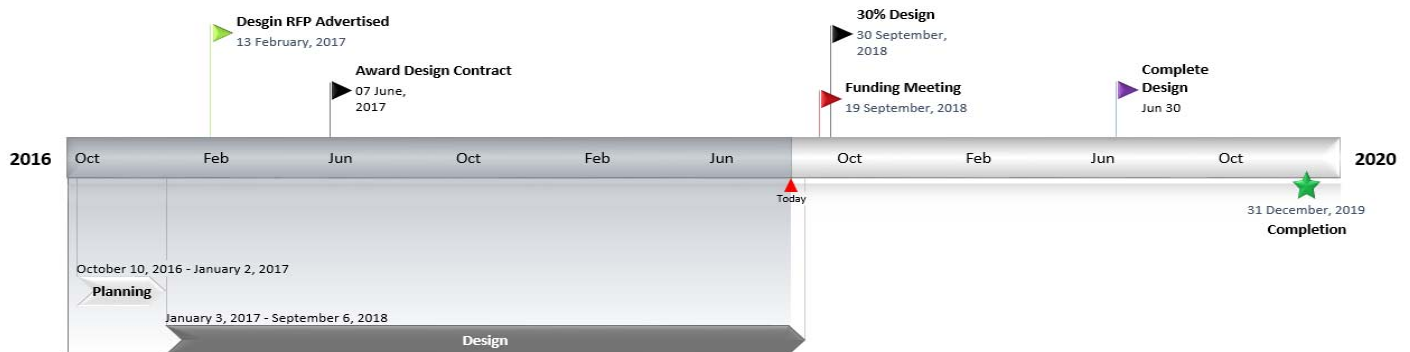


Primary Contact: Skip Martin | smartin@bendoregon.gov

Scope	Schedule	Cost
Design 35,000 feet of gravity sewer through a portion of Southeast Bend area near King's Forest neighborhood.	Start Date: 10/10/2016 Substantial Completion: 12/31/2019 Final Closeout: 12/31/2019*	Total Estimated: \$2,800,000* Spent to Date: \$1,541,568 % Spent to Estimated: 55%
Status: Scope Correction	Status: On Schedule	Status: On Budget
Adjustments: No change in actual scope, just correction to report.	Adjustments: No change from prior month	Adjustments: No change from prior month

Status Update: Sewer Advisory Committee recommendations review underway. Three public listening sessions held with over 200 citizens attending each session on August 11, Aug 15, and August 29. EIPD Issue Summary for Scope, Schedule, and Budget Change for Final Design completed Aug 29, 2018. Target Sept 19, 2018 for City Council approval.

Cost Estimate Classification: 2



Citywide Safety Improvements

With the help of the community and a prior safety study, the city has identified multiple locations across the city where there have been a high number of crashes. Several treatments are proposed to make these locations safer for people walking, riding bicycles, and driving. This project will further develop the design of these treatments and construct them with additional community input.



Primary Contact: Rory Rowan | rrowan@bendoregon.gov

Scope

Survey, design, traffic analysis, public involvement, and construction of safety improvements at the following locations: 3rd St at Hawthorne, Franklin, Roosevelt, and Reed Market, Colorado Ave & Bend Pkwy (US Hwy 97) interchange, Neff Rd at Williamson Blvd, 27th St at Conners Ave, Brosterhous Road railroad underpass, Pinebrook and Canal.

Schedule

Start Date: 10/1/2014
 Substantial Completion: 9/30/2018
 Final Closeout: 9/30/2019

Cost

Total Estimated: \$2,940,600
 Spent to Date: \$899,492
 % Spent to Estimated: 30%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

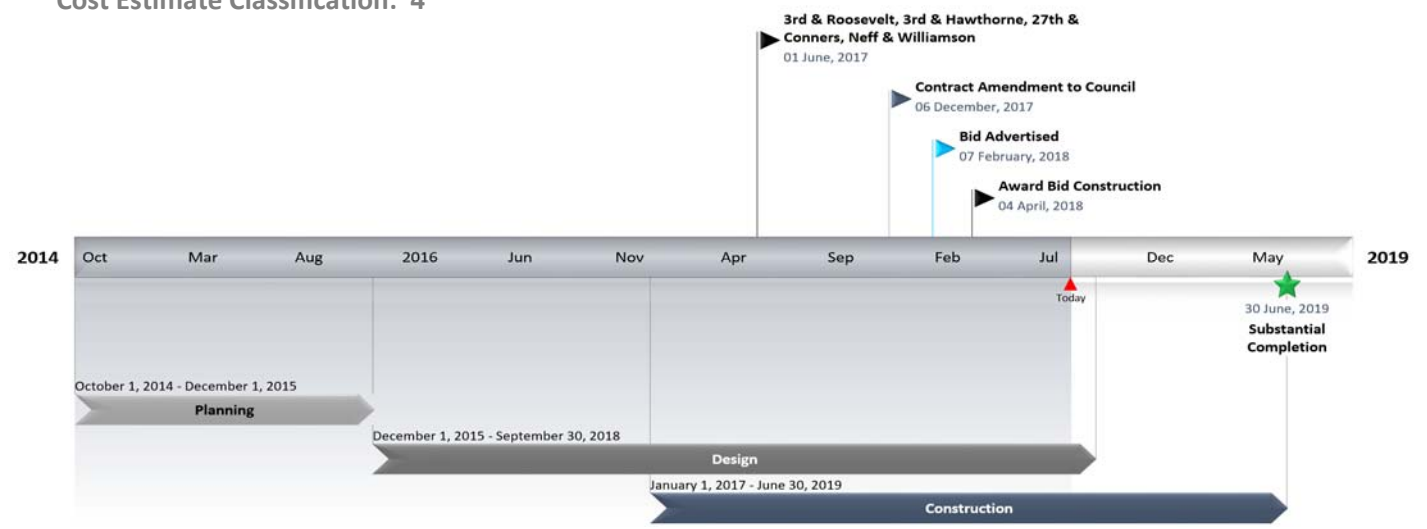
Adjustments: No change from prior month

Status: Budget Reduction

Adjustments: No change from prior month

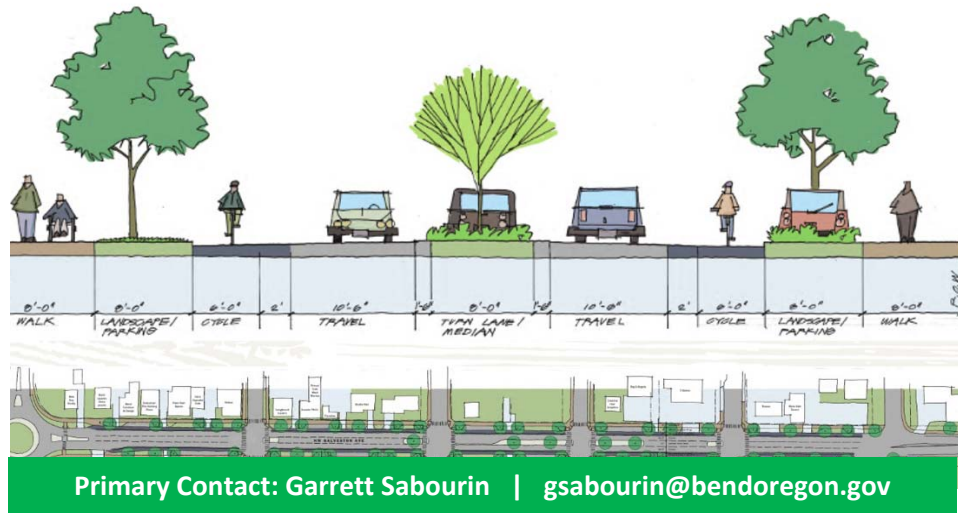
Status Update: Select projects may require potential eminent domain acquisition for right of way.

Cost Estimate Classification: 4



Galveston Corridor Improvements

The Galveston Corridor planning dates back to 2007 when the Traffic Safety Advisory Committee identified the project as the City of Bends 4th highest safety priority project, for existing arterials and collectors. Following initial identification of the project there was significant public interest and involvement from the adjacent community, resulting in the development of a local task force and subsequent council acceptance of a 'hybrid' streetscape concept. Design initiated in 2016.



Scope

Scope includes the design of the three-lane hybrid option, Deschutes River Bridge to 14th Street, from 30% to final design. The three-lane hybrid option is seen in the above exhibit and includes drainage improvements, pedestrian crossings, raised medians, buffered bike lanes, on-street parking and ADA compliant pedestrian facilities.

Schedule

Start Date: 06/01/2011
 Substantial Completion: TBD
 Final Closeout: 01/31/2019**
 ** Construction not funded. Final closeout indicates 100% design.

Cost

Total Estimated: \$950,000[†]
 Spent to Date: \$548,127*
 % Spent to Estimated: 58%
 † Total cost estimate for design
 * Includes planning prior to CIP

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

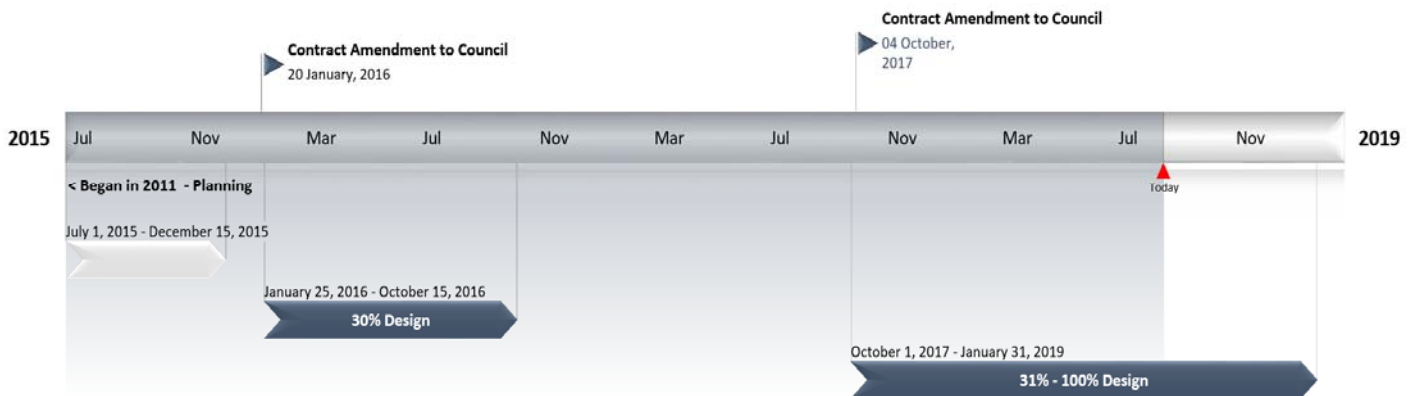
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: The City is reconsidering the mini-roundabout at Galveston and Harmon.

Cost Estimate Classification: 3



Bicycle Greenways Project

An initial network of neighborhood greenways across Bend will be created to make walking and biking a more comfortable and safe travel option. It will be implemented in phases and by corridor over multiple years. The proposed improvements will provide safer connections, reduce cut through traffic and speeds, help people cross busier streets, and link together housing, parks, schools, and businesses.



Project Engineer: Rory Rowan | rrowan@bendoregon.gov

Scope

Design, public outreach, and construction of signs, pavement markings, and traffic calming improvements across a 9-mile network of local streets. The initial phase currently underway includes:

- NE 6th St (Greenwood to Butler Market)
- NW/SW 15th St (Simpson to Galveston)

Schedule

Start Date: 2/1/2018
 Substantial Completion: 06/30/2021
 Final Closeout: 06/30/2022

Cost

Total Estimated: \$900,000
 Spent to Date: \$7,609
 % Spent to Estimated: 0.85%

Status: On Scope

Status: On Schedule

Status: On Budget

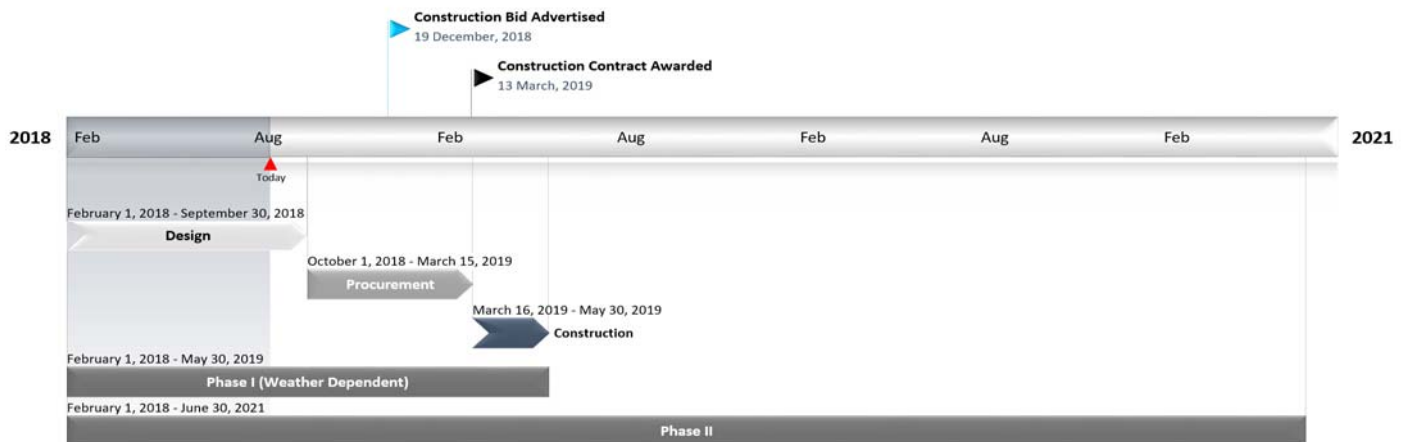
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

Status Update: Phase 1 (NE 6th & NW 15th Streets) design will be completed by fall. Phase 1 bidding and construction planned over winter with tentative Council award date in March and construction in spring 2019.

Cost Estimate Classification: 5



Dean Swift Corridor Citywide Accessibility

This project will design and construct accessibility improvements along Dean Swift Road. It was prioritized by the City of Bend Accessibility Advisory Committee (COBAAC) and the Central Oregon Coalition for Access (COCA). It is part of the Citywide Accessibility Improvements.



Project Engineer: Rory Rowan | rrowan@bendoregon.gov

Scope

Survey, design, and construction of sidewalk, curb ramps, driveways, and other accessibility improvements on Dean Swift Road between Greenwood Avenue (US Highway 20) and Bear Creek Road.

Schedule

Start Date: 11/01/2017
Substantial Completion: 11/30/2018
Final Closeout: 11/30/2019

Cost

Total Estimated: \$150,000
Spent to Date: \$30,691
% Spent to Estimated: 20%

Status: On Scope

Status: On Schedule

Status: On Budget

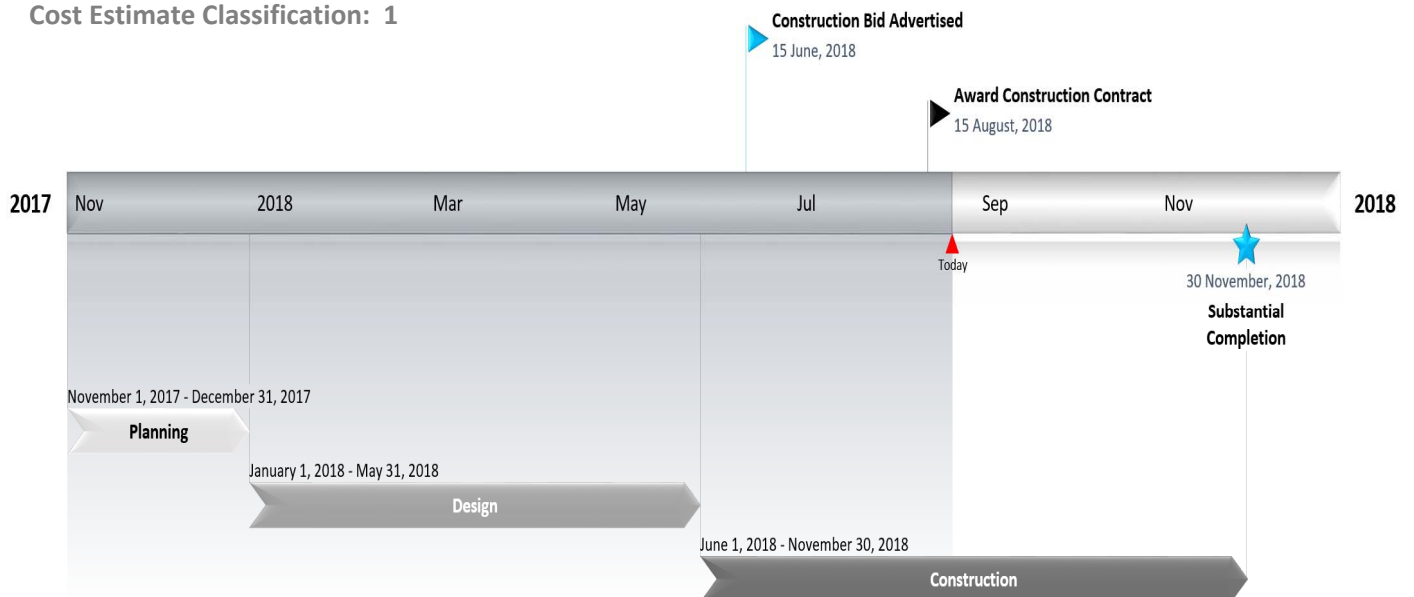
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

Status Update: Contract with Big Schatz approved August 15 with work slated to begin October 1.

Cost Estimate Classification: 1



Egypt Waterline Project

Primary Contact: Brad Tower | btower@bendoregon.gov

The Egypt Waterline seeks to create a redundant water source for Juniper Ridge. This project became a Capital Improvement Project after it was identified in the 2011 Water master Plan Optimization study by Murray and Smith Associates. A redundant connection for Juniper Ridge is necessary to provide an adequate water supply during system disruptions due to maintenance activities, public emergencies, or catastrophic events.



Scope

Design a waterline connection between Ranch Village Dr. and 18th Street. This work will include a pressure zone change to Juniper Ridge to match that of the neighborhood to the southwest.

Schedule

Start Date: 7/1/2012
 Substantial Completion: 09/30/18
 Final Closeout: 09/30/18

Cost

Total Estimated: \$771,000
 Spent to Date: \$474,048
 % Spent to Estimated: 61%

Additional Funding Sources:
 Parks & Rec: \$51,995
 COB Street Ops: \$83,033
 School District: \$6,000

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

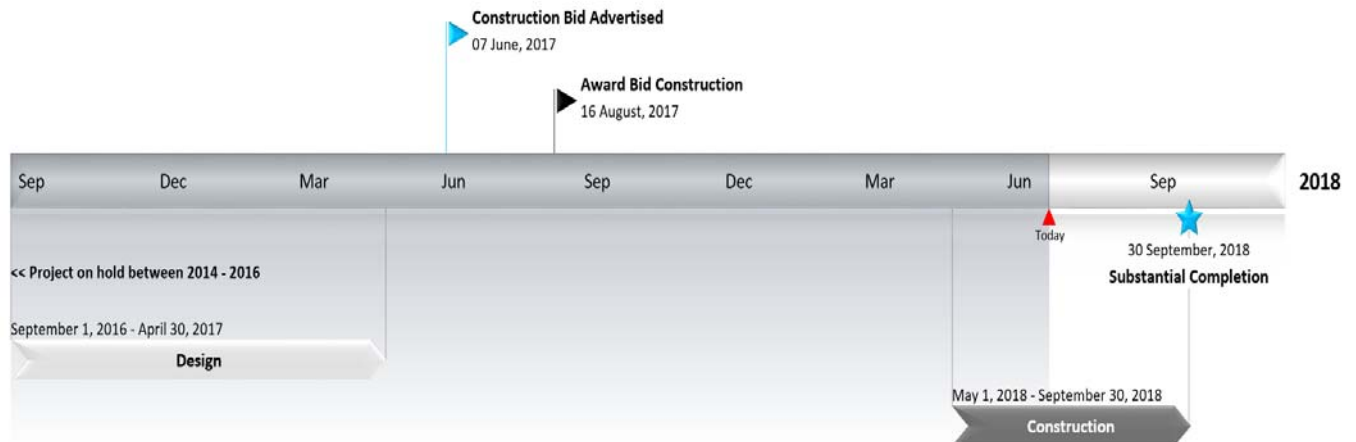
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: All work on Egypt Drive is complete, prior to school start as planned. Work at Boyd Acres and Cooley intersection scheduled to be complete in September to conclude this job.

Cost Estimate Classification: 1



South Mirror Pond Parking Lot

Current issues with the South Mirror Pond parking lot include a lack of parking for oversized vehicles and bicycle rentals and loitering. This project will update the parking lot to improve intended function and create greater parking diversity.



Primary Contact: Brad Tower | btower@bendoregon.gov

Scope

This is a synergy project with the Economic Development Department and Bend Police Department.

Schedule

Start Date: 9/1/2017
 Substantial Completion: 05/31/2019
 Final Closeout: 05/31/2020

Cost

Total Estimated: \$470,000
 Spent to Date: \$14,746
 % Spent to Estimated: 3%

Status: On Scope

Status: Potential Schedule Delay

Status: On Budget

Adjustments: No change from prior month

Adjustments: Staffing constraints have impacted project schedule

Adjustments: No change from prior month

Status Update: Minimum Design Standards (MDS) Review Type II application submitted to City for land use approval. 95% construction plans prepared by consultant.

Cost Estimate Classification: 5

