

Monthly Report

Fiscal Year 2017-2018 May 2018



MONTHLY REPORT

May 2018 ISSUE 31

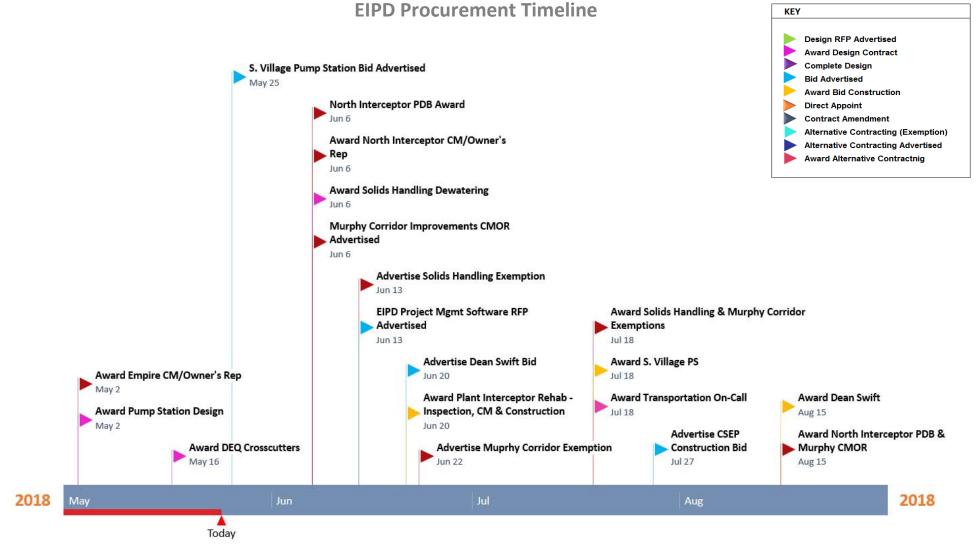
Contents

Capital Improvement Program in Brief	1
EIPD Procurement Timeline	2
City of Bend 2018 – 2022 Capital Improvement Program Project List	3
Citywide Accessibility Improvements	5
Empire Corridor Improvements	6
Dean Swift Corridor Citywide Accessibility	7
Galveston Corridor Improvements	8
Citywide Safety Improvements	9
14 th Street Reconstruction	10
Egypt Waterline Project	11
Murphy Corridor Improvements Project	12
Solids Handling Improvements	13
Southeast Bend Septic to Sewer Solutions	14
Plant Interceptor Rehabilitation	15
North Interceptor Project	16
Capacity Improvements Project	17
Pump Station Decommissions Projects	18
South Mirror Pond Parking Lot	19
Collection System Master Plan Post Acknowledgement Plan Amendment	20

Financial Impact Review: Review by Finance Director, Sharon Wojda, 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.

Capital Improvement Program in Brief					



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



Leave this page blank and insert CIP Summary from Excel Workbook page 2

Citywide Accessibility Improvements

Through the help of dedicated volunteers on the City of Bend Accessibility Advisory Committee (COBAAC) and the Central Oregon Coalition for Access (COCA), key corridors and neighborhoods across the city have been prioritized for accessibility improvements. This project will design, construct, or repair these curb ramps and sidewalks including those identified through the City's Barrier Removal Request process.



S	C	0	p	e	
_	_	_	-	_	

Survey, design, and construction of accessibility improvements in the Mountain View Neighborhood, NE Kearney Avenue, NE Wells Acres Road, and Broadway and Delaware locations. Construction of all locations except the Mountain View Neighborhood in 2017. Construction of Mountain View in 2018.

Schedule

Start Date: 3/1/16 Substantial Completion: 06/30/2018 Final Closeout: 06/30/19 **Completed Projects:**

NE Kearney Ave NE Wells Acres Rd Broadway & Delaware

Cost

Total Estimated: \$1,156,000 Spent to Date: \$650,455 % Spent to Estimated: 56%

Design = \$250,000 **Construction** = \$906,000

Mountain View \$466,000 NE Kearney Ave \$235,000

\$140,000

Broadway & Delaware \$65,000

NE Wells Acres Rd

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

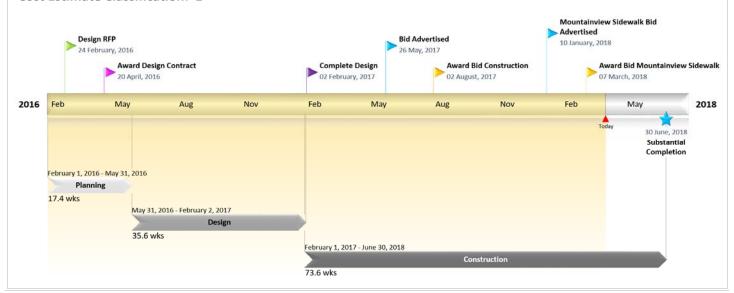
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: Mountainview construction scheduled for mid-April. On scheduled for substantial completion on June

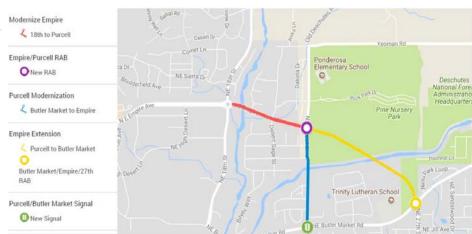
Cost Estimate Classification: 1



Empire Corridor Improvements

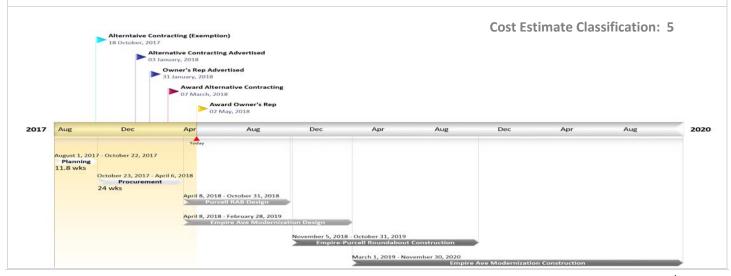
Planning and preliminary design for Empire Avenue began in 2005. In 2017 Council designated it as a high priority for improving the safety, efficiency, and reliability of transportation in northeast Bend. Council identified the design and construction of a roundabout at the Empire/Purcell intersection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

Primary Contact: George Franklet | gfranklet@bendoregon.gov



Schedule Scope Cost Six distinct but interrelated sub-Start Date: 08/1/2017 Total Estimated: \$23,400,000 projects are included: Empire/Purcell Substantial Completion: TBD* Spent to Date: \$81,809 Roundabout, Empire Avenue Final Closeout: TBD* % Spent to Estimated: .04% Modernization, Purcell Boulevard Modernization, Empire Avenue Sub-Projects: Est. Spent Extension, Purcell/Butler Market * Dependent upon funding Purcell RAB \$2,000,000 \$81,809 Signal Modernization and 27th Street **Empire Mod** \$1,900,000 \$0 Roundabout. Due to the complexity Purcell Mod \$0 \$2,700,000 of implementing all the related \$0 **Emp Extension** \$10,800,000 components of the project, a \$0 Butler Mkt Sig \$2,500,000 Progressive Design-Build project Emp/27 RAB \$3,500,000 \$0 delivery method will be used. **Status: Potential Scope Modification** Status: On Schedule **Status: Over Budget** Adjustments: Butler Market Signal Adjustments: Schedule dependent Adjustments: Project cost estimates may be modified to a roundabout. upon Council approval of budgets. updated but budgets will not be Cost estimates reflect this potential modified until Council adopts 2019change. 2023 CIP in June 2018

Status Update: Proceeding toward 30% design scheduled for the end of May. Council to approve contract for Construction/Owners Representative (CMOR) on May 2.



Dean Swift Corridor Citywide Accessibility

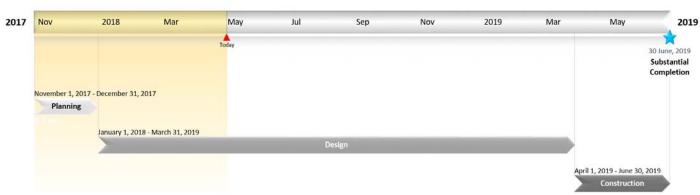
This project will design and construct accessibility improvements along Dean Swift Road. It was prioritized by the City of Bend Accessibility Advisory Committee (COBAAC) and the Central Oregon Coalition for Access (COCA). It is part of the Citywide Accessibility Improvements.



Scope	Schedule	Cost
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.	Start Date: 11/01/2017 Substantial Completion: 06/01/2019 Final Closeout: 06/01/2020	Total Estimated: \$150,000 Spent to Date: \$0 % Spent to Estimated: 0%
Status: On Scope	Status: Potential Schedule Delay	Status: On Budget
Adjustments: No impact to scope expected due to potential delay	Adjustments: Due to delays in right of way acquisition	Adjustments: No impact to budget expected due to potential delay

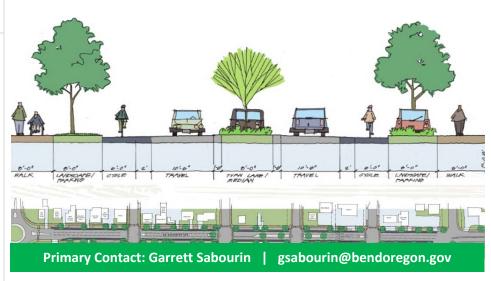
Status Update: Right of way has been obtained and reevaluating timeline for construction delivery.

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	Schedule	Cost
Scope includes the design of the three-lane hybrid option, Deschutes River Bridge to 14 th 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.	Start Date: 06/01/2011 Substantial Completion: TBD Final Closeout: 09/30/2018** ** Construction not funded. Final closeout indicates 100% design.	Total Estimated: \$950,000† Spent to Date: \$446,276* % Spent to Estimated: 47% † Total cost estimate for design * Includes planning prior to CIP
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: Design of the improvements to final design continued with 60% plans anticipated to be received from the engineering consultant in June.



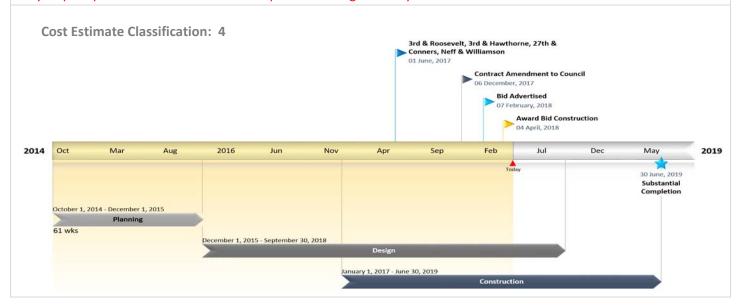
Citywide Safety Improvements

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.



Scope	Schedule	Cost	
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.	Start Date: 10/1/2014 Substantial Completion: 9/30/2018 Final Closeout: 9/30/2019	Total Estimated: \$3,535,000 Spent to Date: \$753,968 % Spent to Estimated: 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 prio month	r

Status Update: Construction for the 27th and Connors Crossing project slated to begin in early May. Select projects may require potential eminent domain acquisition for right of way.



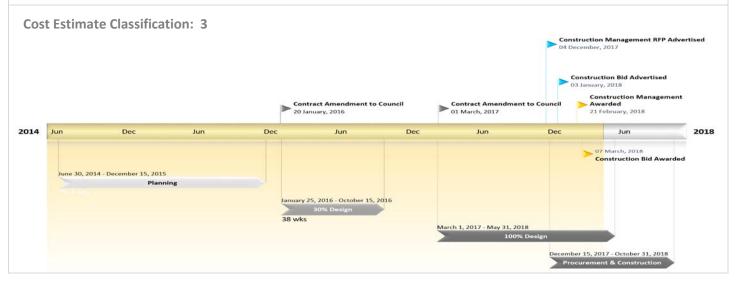
14th Street Reconstruction

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 up 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	Schedule	Cost		
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.	Start Date: 06/30/2014 Substantial Completion: TBD Final Closeout: TBD	Total Estimated Spent to Date: % Spent to Estin Sub-Projects: Pl: GO Bond Pl: Trans Con. Pll: Trans Con.	\$2	795,000 766,497 % Spent \$1,506,472 \$629,901 \$630,124
Status: On Scope	Status: Ahead of Schedule	Status: On Budget		
Adjustments: No change from prior month	Adjustments: Project is trending approximately two weeks ahead of schedule.	Adjustments: Menth	No change f	rom prior

Status Update: Construction of the project began April 9 and a change order submitted combined two stages of construction resulting in a compressed schedule. Local businesses remain open. Traffic control measures were added to minimize cut through traffic and impacts to businesses.



Egypt Waterline Project

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.

Primary Contact: Brad Tower | btower@bendoregon.gov



Scope	Schedule	Cost
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.	Start Date: 7/1/2012 Substantial Completion: 09/30/18 Final Closeout: 09/30/18	Total Estimated: \$771,000 Spent to Date: \$31,814 % Spent to Estimated: 4% Additional Funding Sources: Parks & Rec: \$51,995 COB Street Ops: \$83,033 School District: \$6,000
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: Construction scheduled to begin in late May.

Cost Estimate Classification: 1 Construction Bid Advertised 07 June, 2017 **Award Bid Construction** 16 August, 2017 Dec 2018 2016 Jun Mar Jun Dec Mar Sep 30 September, 2018 << Project on hold between 2014 - 2016 **Substantial Completion** September 1, 2016 - April 30, 2017 Design 34.4 wks May 1, 2018 - September 30, 2018 Construction

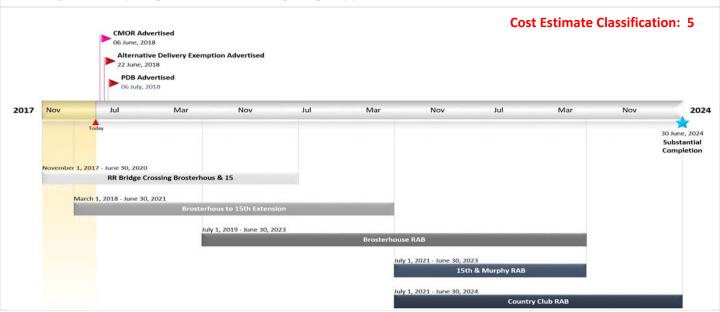
Murphy Corridor Improvements Project

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 Start Date: 11/1/2018 **Total Estimated:** \$32,000,000 method will be utilized to complete Substantial Completion: 10/31/2022 Spent to Date: \$0 several subprojects, including the Final Closeout: 12/31/2022 Brosterhouse to 15th Roadway % Spent to Estimated: 0% Extension, including Bridge at BNSF Sub-Projects: Est. Spent Railway Crossing, a roundabouts at \$6,739,000 \$0 RR/Bridge Brosterhous, Country Club, 15th and \$6,781,200 Extension \$0 widening and complete street **B-haus RAB** \$2,948,300 \$0 upgrades at Parrell to Brosterhouse. 15th RAB \$2,948,300 \$0 C. Club RAB \$2.948.300 \$0 Corridor Imp. \$9,634,900 \$0 Status: On Schedule **Status: On Scope Status: On Budget** Adjustments: Initiated Adjustments: Initiated Adjustments: Initiated

Status Update: Preparing charter and awaiting budget approval in June.



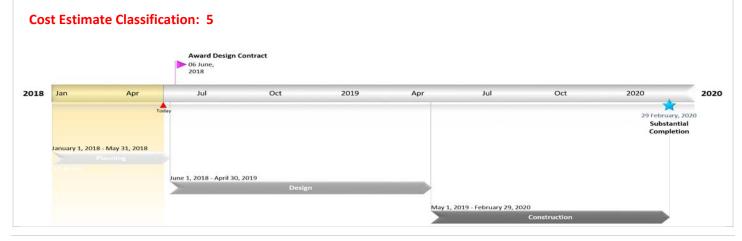
Solids Handling Improvements

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: \$455 % Spent to Estimated: 0.01%
Status: On Scope	Status: On Schedule	Status: On Budget
Adjustments: Initiated	Adjustments: Initiated	Adjustments: Initiated

Status Update: The City selected Carollo Engineers, Inc who has extensive experience with wastewater treatment plant design to perform to preliminary design, final design and services during construction for the improvement to the WRF solids dewatering process. 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.



Southeast Bend Septic to Sewer Solutions

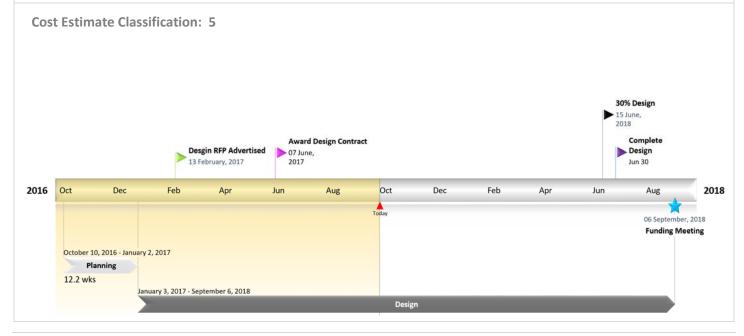
When constructed, existing residences, currently on septic systems, will eventually and systematically connect to the recently constructed South East Interceptor (SEI). This project will require phases to meet constructability limitations and to better meet community involvement requirements.



Primary	Contact: Skip Ma	rtın smar	tin@bendoregon.gov

Scope	Schedule	Cost
Design 70,000 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: \$1,052,711 % Spent to Estimated: 52% * City is currently only planning to design this project.
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: Topographic survey is 80% complete, and scheduled to be completed by December 2018. Citizen's Advisory meetings are on schedule. Approximately 90% of homeowners have been contacted. Advisory committee meetings were held in March with more scheduled for April.



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.

Adjustments: No change from prior

month

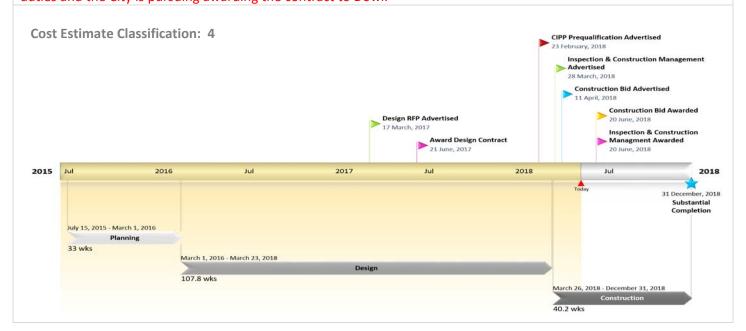


Scope	Schedule	Cost	
Rehabilitate all pipe segments and manholes from Purcell Blvd. to proposed tie in with the North Interceptor with a Cured-In-Place Pipe (CIPP) liner.	Start Date: 3/1/2015 Substantial Completion: 12/31/18 Final Closeout: 12/31/19	Total Estimated: Spent to Date: % Spent to Estimated:	\$10,700,000 \$655,499 6%
Status: On Scope	Status: On Schedule	Status: On Budget	

Status Update: Construction documents are currently out to bid with the prequalified contractors. Bid opening is set for Wednesday May 30th. Proposals were received and scored for the construction management and inspection duties and the City is pursuing awarding the contract to Dowl.

Adjustments: No change from prior

month

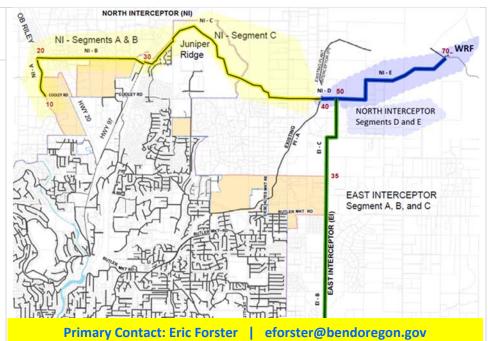


Adjustments: No change from prior

month

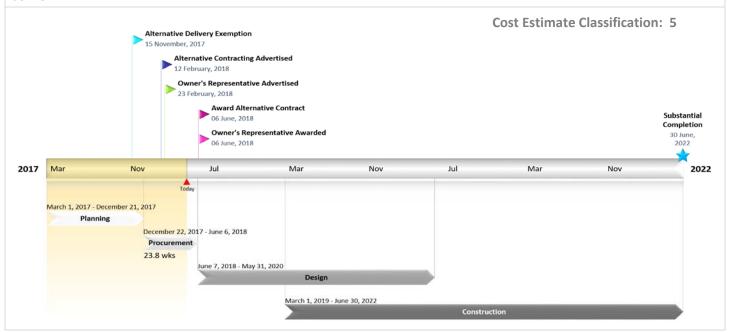
North Interceptor Project

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).



Scope	Schedule	Cost
Design, bid, contract, and build approximately 36,000 feet of gravity sewer, various diameters running along the Northern edge of Bend's UGB. Connects to the WRF.	Start Date: 3/1/17 Substantial Completion: 12/31/2022 Final Closeout: 12/31/2023	Total Estimated: \$23,000,000 Spent to Date: \$15,176 % Spent to Estimated: 0.07%
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: Contractor selection has been made with contract scheduled for Council approval June 6. Construction Manager/Owners Representative (CMOR) consultant has been selected, contract going to Council June 6 as well.



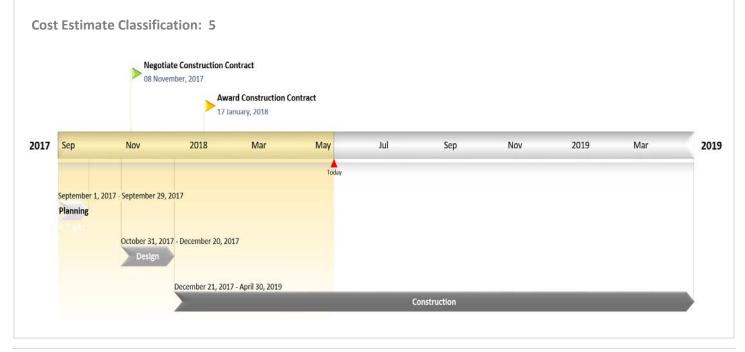
Capacity Improvements Project

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.



Scope	Schedule	Cost
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.	Start Date: 4/1/2017 Substantial Completion: 4/30/19 Final Closeout: 4/30/2020	Total Estimated: \$8,000,000 Spent to Date: \$693,109 % Spent to Estimated: 9%
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

Status Update: All concrete work in Basin 3 is complete. Mechanical and electrical work in pump station A is underway as well as yard piping connections to primary clarifiers one and two.



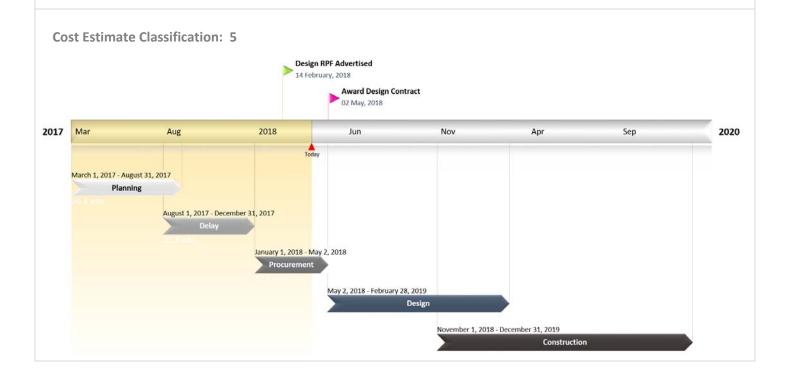
Pump Station Decommissions Projects

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.



Scope	Schedule	Cost	
The project consists of decommissioning multiple sewer pump stations throughout the City where gravity sewer diversions have been determined to be viable.	Start Date: 3/1/2017 Substantial Completion: 12/31/2019 Final Closeout: 12/31/2020	Total Estimated: \$1,515,000 Spent to Date: \$5,319 % Spent to Estimated: 0.35%	
Status: Increase Scope	Status: On Schedule	Status: Potential Budget Increase	
Adjustments: To include design of additional pump stations	Adjustments: No change from prior month	Adjustments: Potential increase in budget based on scope increase	

Status Update: Anticipate presenting design contract for approval on May 2.



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	Schedule	Cost
This is a synergy project with the Economic Development Department and Bend Police Department.	Start Date: 9/1/2017 Substantial Completion: 05/31/2019 Final Closeout: 05/31/2020	Total Estimated: \$470,000 Spent to Date: \$11,122 % Spent to Estimated: 0.24%
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: Design is underway and will be complete December 2018 with construction scheduled for spring 2019.



Collection System Master Plan Post Acknowledgement Plan Amendment

This project is updated the 2014 CSMP to recognize the project elements that were identified as part of the UGB process. This work will identify the elements of the collection system that will be needed to serve the expansion areas and the costs associated with those improvements. This work is being done working closely with the Growth Management Department.



Bend Economic Opportunities Analysis

Bend's Growth to 2028

Primary Contact: Skip Martin | smartin@bendoregon.gov

Scope	Schedule	Cost
This is a synergy project with the Growth Management Department and is not included in the Capital Improvement Program.	Start Date: 3/1/2017 Substantial Completion: 4/1/2018 Final Closeout: 4/1/2018	Total Estimated: \$92,000 Spent to Date: \$89,514 % Spent to Estimated: 97%
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: Project is substantially complete. This is the final month this project will be included in the report.

Cost Estimate Classification: 5

2017 Mar May Jul Sep Nov 2018 Mar 2018

Ol April, 2018

Project Complete

Planning