



ENGINEERING

Monthly Report

Fiscal Year 2016-2017

August 2016



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FROM THE DIRECTOR

This month’s report includes new information summarizing current fiscal year expenditures for all six of the budget programs included in the CIP. See page 2 in the Executive Summary for more information.

Road closures and detours are common this time of year and we appreciate your patience as construction continues on several projects throughout the City. The bulk of the construction will begin to wind down toward the end of September as temperatures begin to cool and the construction season wraps up in Central Oregon. For more information about closures and detours see the City of Bend’s Facebook page for the Weekly Road and Traffic Report.

On a final note, this month several current and former City Council members joined City of Bend Staff, family members and more than 50 guests to celebrate Heidi Lansdowne’s retirement and to dedicate the Heidi Lansdown Water Intake Facility at Bridge Creek. The celebration, held July 22, 2016, marks a milestone for the City. The completion of the Bridge Creek Surface Water Project that includes a Pipeline, Water Intake Facility and a Water Treatment Facility, highlights Heidi’s 15-year career as an Engineer with the City of Bend.

Tom Hickmann PE
EIPD Director
541 317-3029

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.

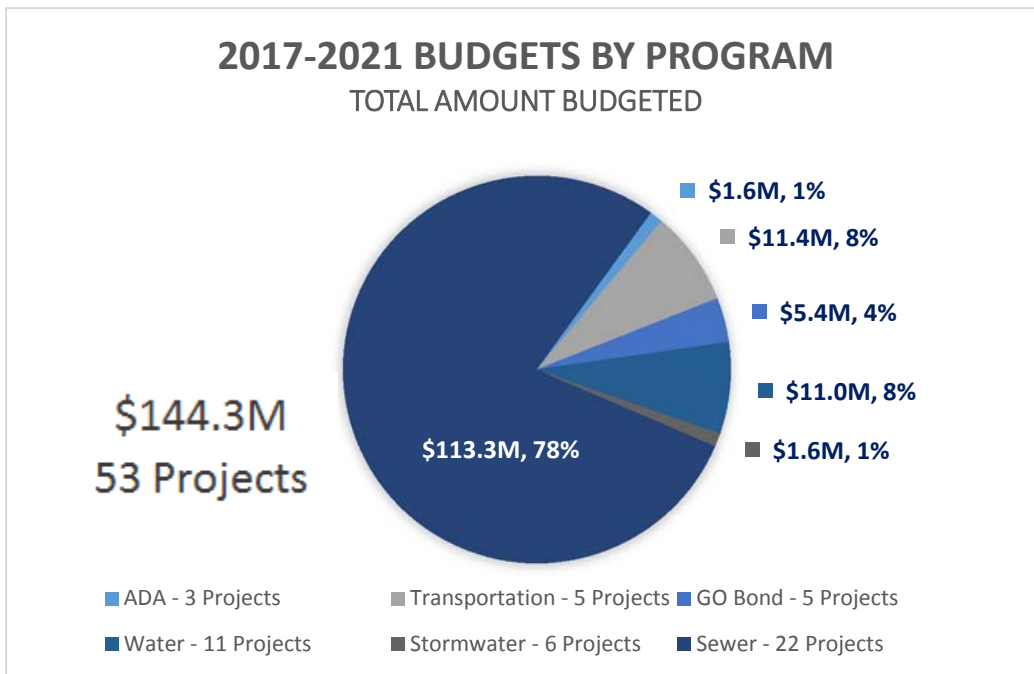
Executive Summary

CIP by the Numbers

This section identifies changes to the CIP for the reporting period: July 1, 2016 – July 31, 2016

- 1 Initiated** Downtown City Offices Sidewalk Program
- 1 Substantial Completion** Murphy & Parrell Roundabout
- 1 Project Name Change** 18th Street Waterline to Egypt Waterline

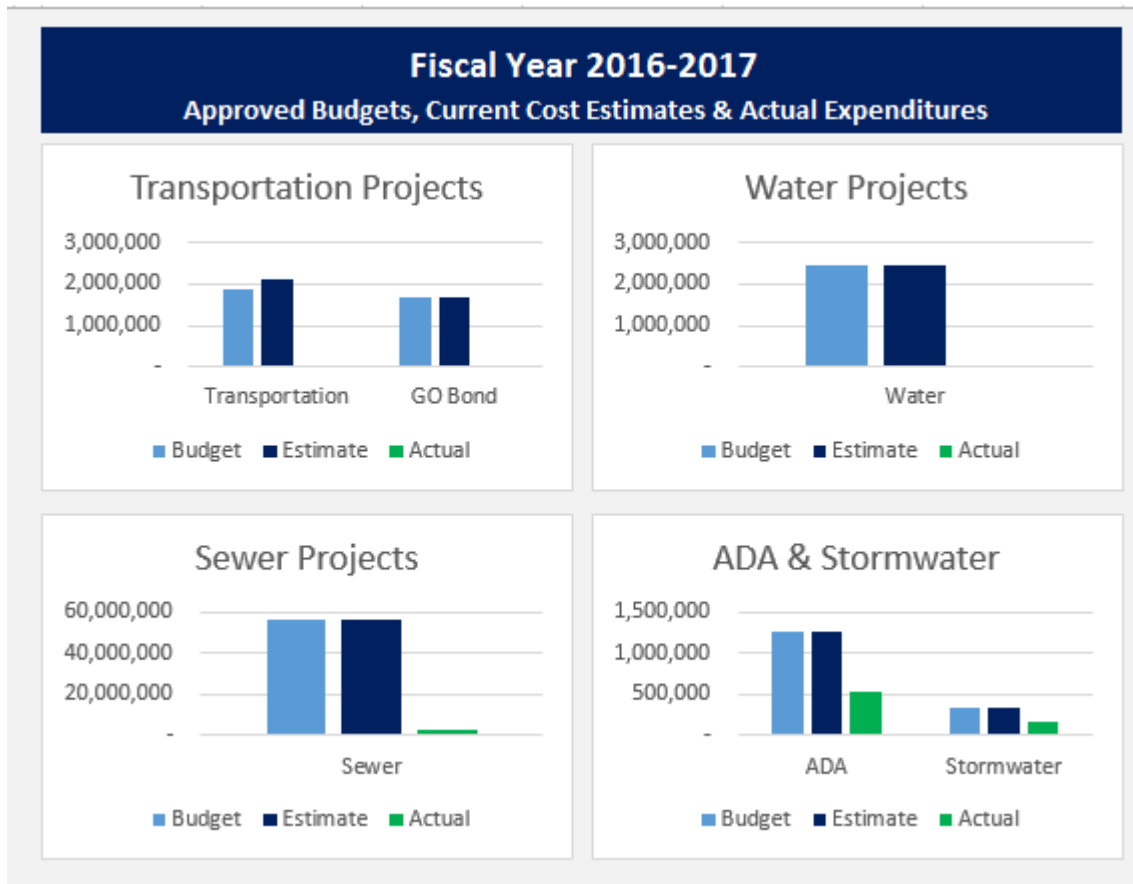
The graph below shows the number of projects, amounts budgeted and the percentage of budgets by program for the 2017-2021 CIP.



The table below shows the stats of projects in the current CIP Plan.

Status	CIP	R&R
Open (Active):		
In planning, design or construction phase	19	1
Substantially Complete (Active):		
Asset transferred to Operations and City has beneficial use	4	0
Closed (Not Active):		
Completed 1-2 yr. warranty; Cancelled; Transferred project to Ops	0	0
Pending (Not Active):		
Scheduled to start within 5-Year CIP Plan	30	15
Total	53	16

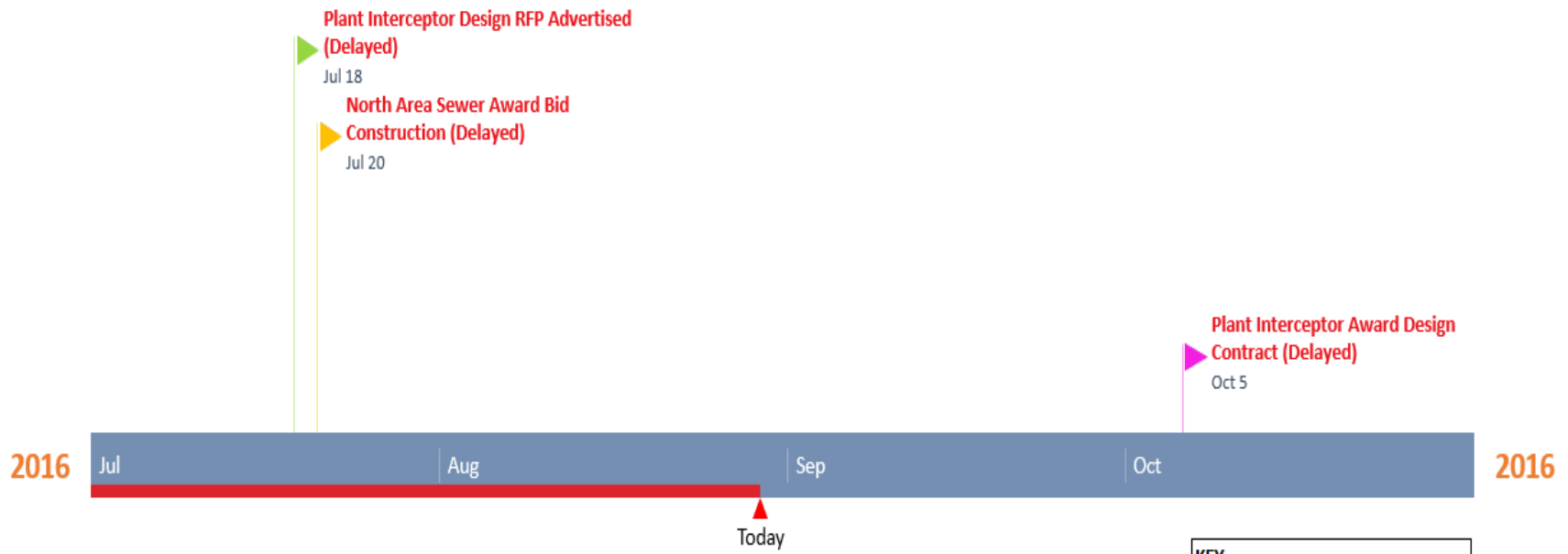
The graph below show the 2017 Fiscal Year approved budgets, current estimates and capital expenditures by program.



The table below shows current fiscal year expenditures and remaining budgets by program.

Program	Projects	2017 FY Budget	2017 FY Spent	Remaining
Water Reclamation	22	\$ 56,484,700	\$ 2,763,912	\$ 53,720,788
Water	11	\$ 2,443,100	\$ 7,694	\$ 2,435,406
Transportation	5	\$ 1,869,022	\$ 8,796	\$ 1,860,226
GO Bond	5	\$ 1,682,300	\$ 12,784	\$ 1,669,516
ADA Construction	4	\$ 1,267,000	\$ 525,949	\$ 741,051
Stormwater	6	\$ 350,000	\$ 172,605	\$ 177,395
Totals	53	\$ 64,096,122	\$ 3,491,741	\$ 60,604,381

EIPD Procurement Timeline



KEY	
	Design RFP Advertised
	Award Design Contract
	Complete Design
	Bid Advertised
	Award Bid Construction
	Construction Start
	Complete Construction
	Contract Amendment

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City of Bend 2017 - 2021 Capital Improvement Program Project List

Project Name & Number	Project Start	Estimated Substantial Completion	Project Stage	Cost Estimate Class	Total Project Cost Estimate	Total Project Spent to Date	2016-17	2017-18	2018-19	2019-20	2020-21	2017-2020 Budgeted	Budget Revisions	Percent Project Estimate Spent
ADA Construction														
AA11FA South 3rd Street Pedestrian Improvements	2011	03/31/17	Design	1	666,500	640,304	100,000	-	-	-	-	100,000		96%
AA16AA Citywide Accessibility Improvements	2016	9/28/18	Design	4	750,000	49,440	400,000	300,000	-	-	-	700,000		7%
AA16BA Downtown City Offices Sidewalk	2016	06/30/17	Design	4	250,000	-	-	-	-	-	-	-	1	0%
AA17XX Future ADA Projects	2017	07/10/05	Pending	5	642,000	-	767,000	-	-	-	-	767,000	1	0%
Total ADA Construction Projects					2,308,500	689,744	1,267,000	300,000	-	-	-	1,567,000		
BURA - Murphy Crossing Construction														
ST15MA Murphy & Parrell Roundabout	2015	07/29/16	Sub.Complete	1	2,000,000	1,512,144	355,022	-	-	-	-	355,022		76%
Total BURA Projects					2,000,000	1,512,144	355,022	-	-	-	-	355,022		
Transportation Construction														
ST11GA Galveston Corridor Improvements	2011	10/15/16	Design	5	2,700,000	296,029	225,000	-	-	-	-	225,000		11%
ST14CA Sidewalk Design and Projects	2017	2018	Pending	5	3,550,000	33,271	140,000	380,000	1,830,000	1,150,000	-	3,500,000		1%
ST14DA Neff and Purcell Sidewalks	2016	2017	Pending	5	4,000,000	-	50,000	350,000	300,000	3,300,000	-	4,000,000		0%
ST14EA Citywide Safety Improvements	2016	09/30/18	Design	4	3,219,000	190,289	1,099,000	1,470,000	775,000	-	-	3,344,000	1	6%
Total Transportation					13,469,000	519,589	1,514,000	2,200,000	2,905,000	4,450,000	-	11,069,000		4%
GO Bond														
ST12CE Reed Mkt: Newberry to 27th	2012	10/15/15	Sub.Complete	1	4,841,330	4,851,320	30,000	21,000	-	-	-	51,000		100%
ST12CJ Reed Mkt: 3rd to Newberry	2012	11/13/15	Sub.Complete	1	14,145,450	13,162,692	45,000	10,000	16,000	-	-	71,000		93%
ST12CK 14th St. Reconstruction	2016	10/15/16	Design	5	1,049,300	113,849	513,000	3,643,527	-	-	-	4,156,527		11%
ST12CH 27th Street Reconstruction	2017	2017	Pending	5	4,156,527	-	1,049,300	-	-	-	-	1,049,300		0%
ST17CD Powers & Brookwood Roundabout Phase II	2016	10/15/16	Design	3	50,000	-	45,000	-	-	-	-	45,000		0%
Total GO Bond					24,242,607	18,127,861	1,682,300	3,674,527	16,000	-	-	5,372,827		
Water														
WA0902 Bridge Creek Intake and Pipeline	2008	06/30/16	Sub.Complete	1	73,954,698	70,023,314	783,100	-	-	-	-	783,100		95%
WA12AA Egypt Waterline	2012	2019	Planning	2	500,000	25,063	-	-	478,400	-	-	478,400		5%
WA15BA Water SDC Methodology Study	2017	07/09/05	Pending	-	60,000	578	60,000	-	-	-	-	60,000		1%
WA15HA Water Master Plan Update	2017	07/09/05	Pending	-	500,000	-	500,000	-	-	-	-	500,000		0%
WA15JA Phase 2 South 3rd St. - Water portion	2016	03/31/17	Design	3	1,100,000	-	1,100,000	-	-	-	-	1,100,000		0%
WA20AX Awbrey Well Supply Expansion	2020	2020	Pending	5	2,021,760	-	-	-	-	2,021,760	-	2,021,760		0%
WA20BX Lafayette Pipe Enlargement	2020	2020	Pending	5	250,640	-	-	-	-	250,640	-	250,640		0%
WA20CX College Parallel Pipe Study	2020	2020	Pending	-	1,215,760	-	-	-	-	1,215,760	-	1,215,760		0%
WA20DX Valves Operational System Study	2021	2022	Pending	-	156,000	-	-	-	-	78,000	78,000	156,000		0%
WA21EX Opt Study - New Level 5 Well - Shirley Ct	2021	2021	Pending	-	1,596,400	-	-	-	-	-	2,830,464	2,830,464		0%
WA21DX Opt Study - Parallel Piping Rock Bluff to Brookwood	2021	2021	Pending	-	2,830,464	-	-	-	-	-	1,596,400	1,596,400		0%
Total Water					84,185,722	70,048,955	2,443,100	-	478,400	3,566,160	4,504,864	10,992,524		
Stormwater														
SR15AA South Awbrey Butte Drainage Study	2016	03/31/17	Design	-	250,000	43,308	200,000	-	-	-	-	200,000		17%
SR15BA South 3rd Street - Stormwater portion	2016	12/26/16	Design	1	470,000	162,491	150,000	-	-	-	-	150,000		35%
SR15CA Newport Pipe Replacement Design	2018	2019	Pending	5	442,000	-	-	-	442,000	-	-	442,000		0%
SR21AX Stormwater Master Plan Update	2020	2022	Pending	5	130,000	-	-	-	-	-	130,000	130,000		0%
SR21BX Franklin & Greenwood Underpass	2021	2029	Pending	5	572,000	-	-	-	-	-	572,000	572,000		0%
SR21CX Roosevelt & McKinley	2020	2022	Pending	5	104,000	-	-	-	-	-	104,000	104,000		0%
Total Stormwater					1,968,000	205,799	350,000	-	442,000	-	806,000	1,598,000		

City of Bend 2017 - 2021 Capital Improvement Program Project List

Project Name & Number	Project Start	Estimated Substantial Completion	Project Stage	Cost Estimate Class	Total Project Cost Estimate	Total Project Spent to Date	2016-17	2017-18	2018-19	2019-20	2020-21	2017-2020 Budgeted	Budget Revisions	Percent Project Estimate Spent
Sewer - Water Reclamation					-	-								
SW0802 Secondary Expansion	2009	06/30/17	Construction	1	45,000,000	39,849,421	2,353,000	-	-	-	-	2,353,000		89%
SW17DA Solids Handling Improvement Technology	2016	2018	Pending	5	17,000,000	-	6,000,000	4,000,000	7,000,000	-	-	17,000,000		0%
SW0707 Southeast Interceptor Project	2007	12/31/17	Construction	3	63,500,000	30,911,435	22,959,500	8,575,000	-	-	-	31,534,500		49%
SW0707 SEI Extension Project 2S&3	2016	12/31/17	Construction	1	8,200,000	-	4,637,500	3,402,500	-	-	-	8,040,000		0%
SW11BA Valhalla Sewer Relocation	2011	10/16/16	Construction	1	1,860,370	361,904	2,000,000	-	-	-	-	2,000,000		19%
SW13DA North Area Sewer Capacity Improvements	2013	11/01/16	Construction	1	6,547,522	994,667	5,669,700	-	-	-	-	5,669,700		15%
SW13EA Colorado Pump Station and Force Main	2013	01/10/17	Construction	1	13,620,132	10,680,893	4,525,000	-	-	-	-	4,525,000		78%
SW15AA Plant Interceptor Rehabilitation	2015	06/30/17	Planning	5	5,738,000	22,918	5,970,000	-	-	-	-	5,970,000		0%
SW16DA Riverhouse Lift Station Hydraulic Upgrade	2016	06/30/17	Design	5	500,000	4,507	370,000	-	-	-	-	370,000		1%
SW17EA East Interceptor (Formerly SEI Phase II North)	2016	2018	Pending	5	21,000,000	-	1,000,000	1,000,000	-	-	-	2,000,000		0%
SW17FA North Interceptor	2016	2021	Pending	5	23,000,000	-	1,000,000	1,000,000	7,000,000	7,000,000	7,000,000	23,000,000		0%
SW17AA WRF Facilities Plan Update	2018	2018	Pending	5	500,000	-	-	500,000	-	-	-	500,000		0%
SW18BX Parallel Sewer on Olney Avenue	2018	2018	Pending	5	581,000	-	-	605,000	-	-	-	605,000		0%
SW15KA WRF Evaporation Percolation Ponds	2019	2019	Pending	5	1,567,000	-	-	-	1,630,000	-	-	1,630,000		0%
SW19AX Amethyst/Mahogany Street Sewer	2019	2019	Pending	5	679,000	-	-	-	710,000	-	-	710,000		0%
SW19BX Mahogany Street/Hwy 97 Sewer	2019	2019	Pending	5	999,000	-	-	-	1,050,000	-	-	1,050,000		0%
SW18AA WRF Support Facilities Upgrade	2020	2020	Pending	5	2,400,000	-	-	-	-	2,500,000	-	2,500,000		0%
SW20AX Odor Control Master Plan	2020	2020	Pending	-	1,000,000	-	-	-	-	1,050,000	-	1,050,000		0%
SW20BX Sewer Storage - Land Acquisition	2020	2020	Pending	-	700,000	-	-	-	-	730,000	-	730,000		0%
SW20EX Plant Interceptor Condition Assessment	2020	2020	Pending	5	600,000	-	-	-	-	630,000	-	630,000		0%
SW20FX Collection System Master Plan (Years 6-10)	2020	2020	Pending	-	1,000,000	-	-	-	-	1,050,000	-	1,050,000		0%
SW20GX Gravity Pipe Condition Assessment	2020	2035	Pending	5	200,000	-	-	-	-	210,000	208,000	418,000		0%
Total Sewer					216,192,024	82,825,745	56,484,700	19,082,500	17,390,000	13,170,000	7,208,000	113,335,200		
Total 2017-2020 Capital Improvement Program					344,365,853	173,929,837	64,096,122	25,257,027	21,231,400	21,186,160	12,518,864	144,289,573		

S. 3rd St. Pedestrian Improvements

Project is a collaboration with ODOT to provide continuous pedestrian facilities along the 3rd Street corridor between Wilson Avenue and Powers Road by repairing existing facilities that are either non-compliant or deteriorated. In addition, the project will also construct pedestrian facilities where none currently exist. The project is being coordinated with several other projects (water, stormwater, streets) within the corridor.



Non-Compliant Curb Ramps

Discontinuous Sidewalks

Scope

Project Engineer: Jason Suhr | jsuhr@bendoregon.gov

Design, right of way acquisition, and construction of sidewalks, curb ramps that is coordinated with other infrastructure for water, stormwater, and streets. Stormwater scope increased to now include catch basin and drill hole vault replacement.

Start Date: 11/1/2011
Substantial Completion: 7/21/2017
Final Closeout: 7/21/2018

Total Estimated: \$1,205,000
Spent to Date: \$833,407
% Spent to Estimated: 69%
Three Projects: ADA \$665,000, Water \$70,000, Stormwater \$470,000

Status: On Scope

Status: On Schedule

Status: On Budget

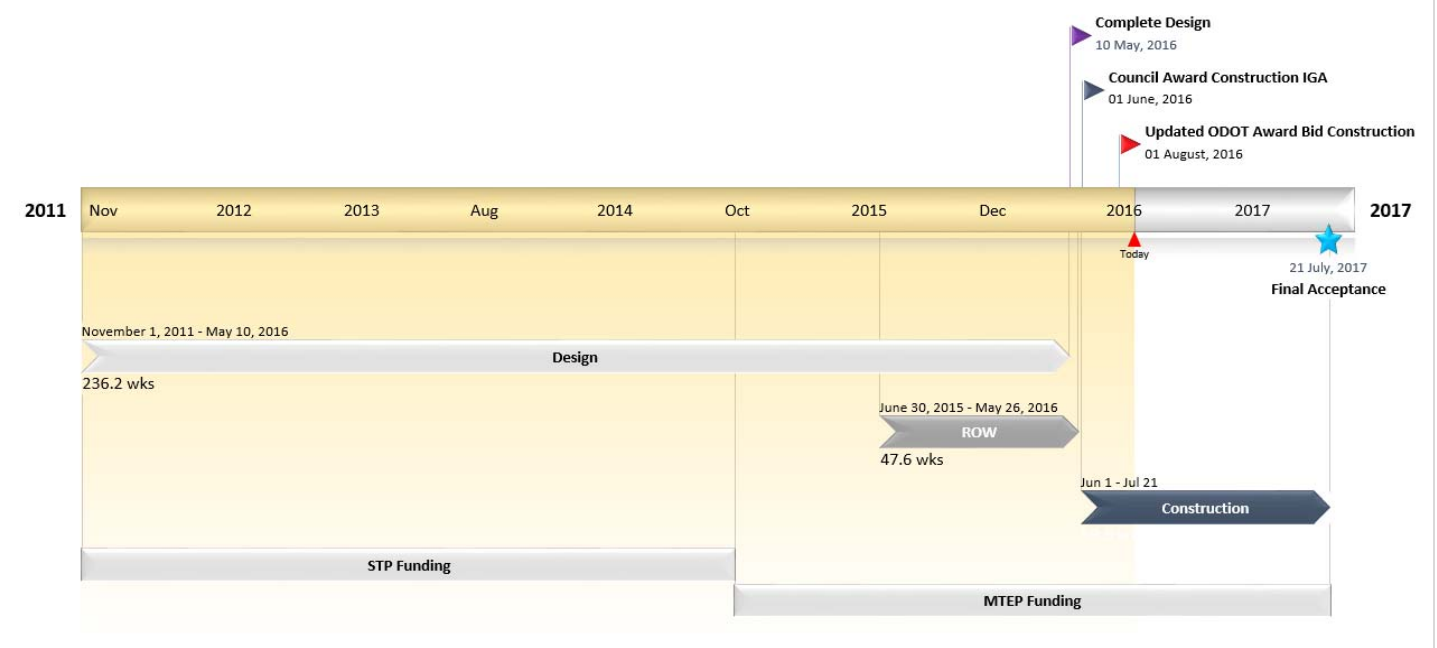
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

Status Update: Construction bids were received and contract awarded to Jack Robinson and Sons. Pre-construction meeting scheduled for September 14 with estimated construction start late September.

Cost Estimate Classification: 1



Phase 2 - S. 3rd Street Improvements

Phase 2 projects are capital improvement projects and address maintenance issues. The timing is being driven to occur in advance of the street preservation work within 3rd Street that is planned for the summer of 2017. Due to the impacts to the 3rd Street roadway, it is imperative that they occur prior to the grind and inlay preservation work.



Scope

Includes design and construction for streets, water, and stormwater. This work will include an analysis of the drainage basin to assess the condition of the existing stormwater facilities; creation of a striping and paving plan; replace existing 2-inch sub-standard waterlines with 8-inch pipelines.

Schedule

Start Date: 10/1/2015
 Substantial Completion: 6/30/2017
 Final Closeout: 7/1/2018

- Stormwater portion complete
- Streets portion complete

Cost

Total Estimated: \$1,135,000
 Spent to Date: \$22,254
 % Spent to Estimated: 2%

Three Projects: Water \$1,100,000, Stormwater \$5,000 and Streets \$30,000

Stormwater and Streets projects are closed.

Status: On Scope

Status: On Schedule

Status: Cost Adjustment

Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

Status Update: The striping plans have been implemented for the street preservation portion of 3rd Street from Greenwood to Burnside. Preliminary analysis ongoing for the water portion. Contract in place to receive a topographical survey to support the design for the water portion.

Cost Estimate Classification: 5



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.



Project Engineer: Rory Rowan | rrowan@bendoregon.gov

Scope	Schedule	Cost
Survey, design, and construction of accessibility improvements, as funding allows, in the Wells Acres, Bear Creek, Division, Downtown & Old Mill and Brookwood/Southwest neighborhoods.	Start Date: 3/1/16 Substantial Completion: 9/28/2018 Final Closeout: 09/28/2019	Total Estimated: \$750,000 Spent to Date: \$49,440 % Spent to Estimated: 7%
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: The 60% design plans will be submitted in September and outreach to neighborhoods is beginning.

Cost Estimate Classification: 4



Murphy & Parrell Roundabout

This project will finalize the extension of Murphy Road on the east side as a part of the Murphy Overcrossing Project and make the intersection safer for vehicles, pedestrians and bicycles.



Project Engineer: Ryan Oster | roster@bendoregon.gov

Scope

Construct a portion of Segment 6 of the SE Interceptor. Construct a roundabout, landscaping, stormwater facilities, illumination, signs and striping to current City standards. Design was completed as part of the Murphy overpass and extension project.

Schedule

Start Date: 5/1/2015
 Substantial Completion: 7/29/2016
 Final Closeout: 7/29/2019*
 * 1 Year warranty and 2 years additional for plant establishment

Cost

Total Estimated: \$2,000,000
 Spent to Date: \$1,512,144
 % Spent to Estimated: 76%

Status: On Scope

Status: **Ahead of Schedule**

Status: **Under Budget**

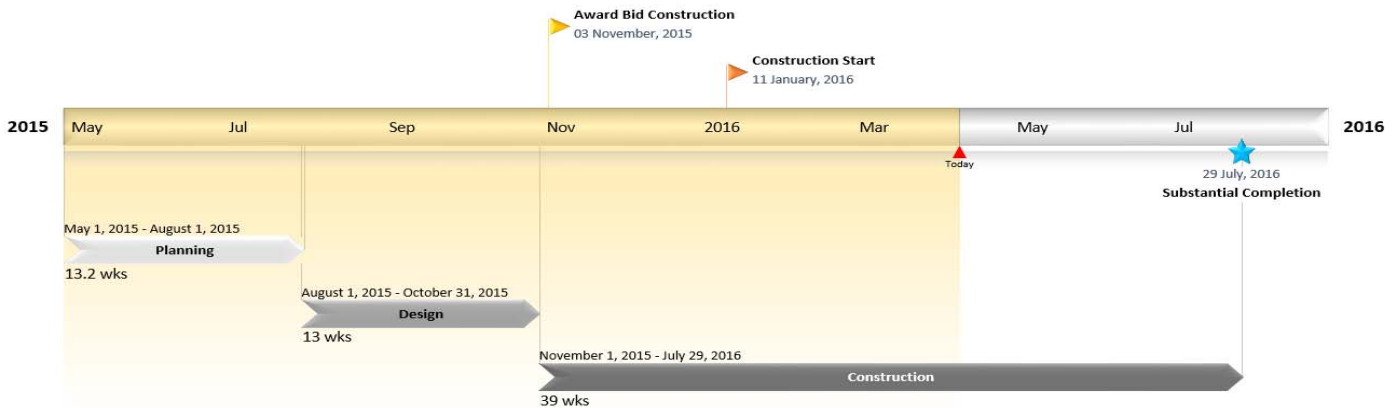
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

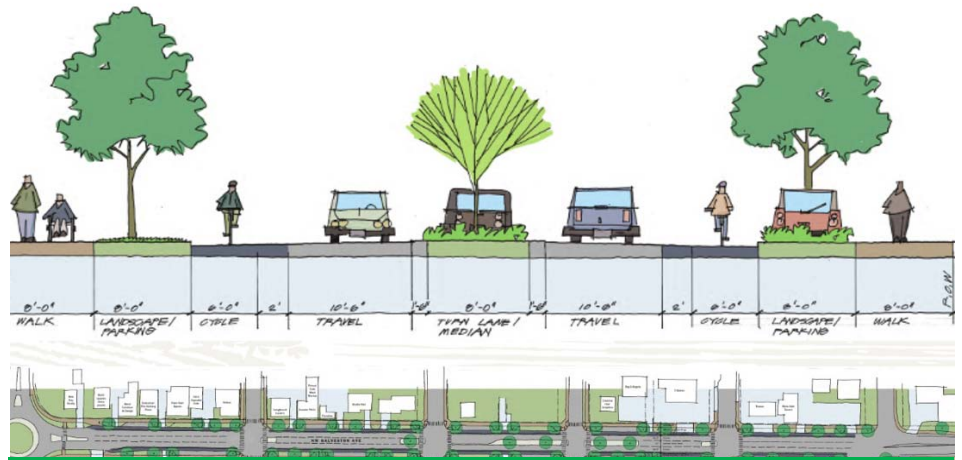
Status Update: The Murphy and Parrell Roundabout opened to the public on July 28th, ahead of schedule and under budget. Budgets will be reallocated in the CIP to cover the 3-year plant establishment period. This is the final month the project will be detailed in the monthly report.

Cost Estimate Classification: 1



Galveston Corridor Improvements

The project is the highest ranked Traffic Safety Advisory Committee (TSAC) arterial and collector street safety project to improve vehicle, bicycle, and pedestrian safety, access, and connectivity. It also continues the bike and pedestrian improvements on Galveston from 14th to Lindsey Ct. The project will improve bicycle and pedestrian safety, access, stormwater system, and parking.



Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

Scope

Study to improve safety, access, and connectivity for vehicles, bicycles, and pedestrians. Also to improve the streetscape along a newly emerging mixed use corridor. A collaborative process has formed between City staff and property/business owners with a taskforce to devise project concepts and designs. At 30% design project will be brought to council to decide the Stormwater and other elements to be carried forward.

Schedule

Start Date: 06/01/2011
 Substantial Completion: TBD
 Final Closeout: TBD

Cost

Total Estimated: \$2,700,000
 Spent to Date: \$296,029*
 % Spent to Estimated: 11%

* Includes planning. At 30% design cost estimates will be updated to account for water, stormwater and sewer utility projects.

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: Consultant completed initial roadway layout and met with project team to address major utility conflicts and maintenance concerns. The 30% design is scheduled to be completed and presented to Council this fall.

Cost Estimate Classification: 5



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.



Project Engineer: 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.

Schedule

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

Cost

Total Estimated: \$3,344,000
 Spent to Date: \$190,289
 % Spent to Estimated: 6%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

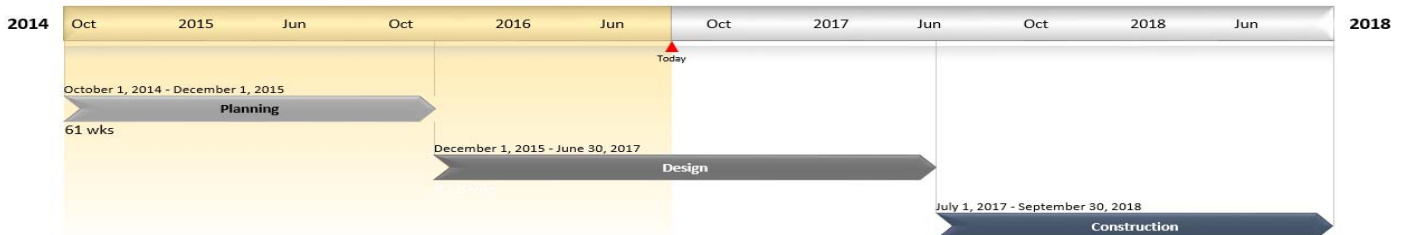
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: The 30% design comments were provided to the consultant and the 60% design plans will be submitted in September. Outreach to businesses neighboring project locations is ongoing.

Cost Estimate Classification: 4



14th Street Reconstruction

Improve safety of corridor from 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

Upgrade to City standard to include but not limited to: roadway, surface, curbs, sidewalks, and striping. Final scope to be determined at 30% concept level, but will include safety improvements for bicycles, pedestrians and vehicles.

Schedule

Start Date: 06/30/2014
 Substantial Completion: TBD
 Final Closeout: TBD

Cost

Total Estimated: \$3,888,950*
 Spent to Date: \$113,849
 % Spent to Estimated: 3%

*Corridor extension construction cost not included in Total Cost Estimate. At 30% design cost estimates will be updated to account for water, stormwater and sewer utility projects.

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: Consultant completed initial roadway layout and met with project team to address major utility conflicts and maintenance concerns. The 30% design is scheduled to be completed and presented to Council this fall.

Cost Estimate Classification: 5



Downtown City Offices Sidewalk

Old and deteriorating sidewalk will be replaced in the downtown area along Franklin Avenue, Wall Street and Louisiana Avenue. Also included are improvements to provide safer and more visible street crossings at key locations. This project was funded through the Citywide Safety Improvements project (ST14EA).



Scope

Survey, design and construction of accessibility and safety improvements along Franklin Avenue, Wall Street and Louisiana Avenue in the vicinity of City Hall and the Downtown Library.

Schedule

Start Date: 7/1/2016
 Substantial Completion: 6/30/2017
 Final Closeout: 6/30/2018

Cost

Total Estimated: \$250,000
 Spent to Date: \$0
 % Spent to Estimated: 0%

Status: On Scope

Status: On Schedule

Status: On Budget

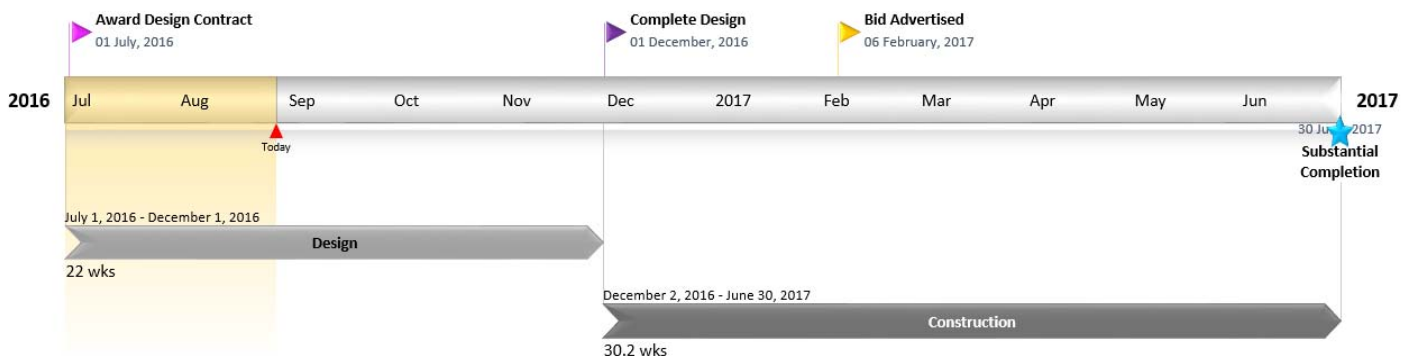
Adjustments: Project Initiated

Adjustments: Project Initiated

Adjustments: Project Initiated

Status Update: Project Initiated

Cost Estimate Classification: 4



Powers & Brookwood Roundabout Phase II

The stormwater from the newly constructed roundabout on Brookwood and Powers is conveyed to and drains into stormwater structures through a swale to the northeast of the roundabout. The Powers & Brookwood Roundabout Phase II Project intent is to rehabilitate this swale. This will be done by cleaning out the storm structures and re-constructing the check dams to convert the swale into a series of retention ponds. This will ensure proper erosion control and sediment collection.

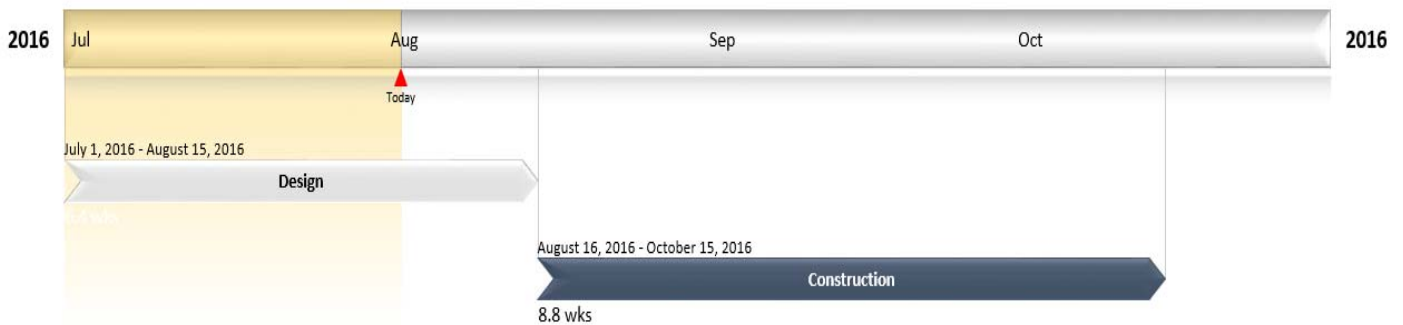


Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

Scope	Schedule	Cost
Re-construct check dams to convey water at appropriate velocity and location. Check dam height will also convert swale into retention ponds for increased retention capacity and sediment collection.	Start Date: 07/01/2016 Substantial Completion: 10/15/2016 Final Closeout: 10/15/2017	Total Estimated: \$50,000 Spent to Date: \$0 % Spent to Estimated: 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: Project Initiated

Cost Estimate Classification: 5



Southeast Interceptor Phase I

Large diameter gravity sewer pipeline extending from the southwest quadrant to the northeast quadrant of the City, approximately 4 ½ miles in length. This project reroutes or intercepts a significant volume of sewage away from the downtown and central sewer systems to the east side of the City in accordance with the Collection System Master Plan completed in 2014. Segment 2S&3 indicates the 2.5 mile stretch of 27th Street between Neff and Reed Market Rd.

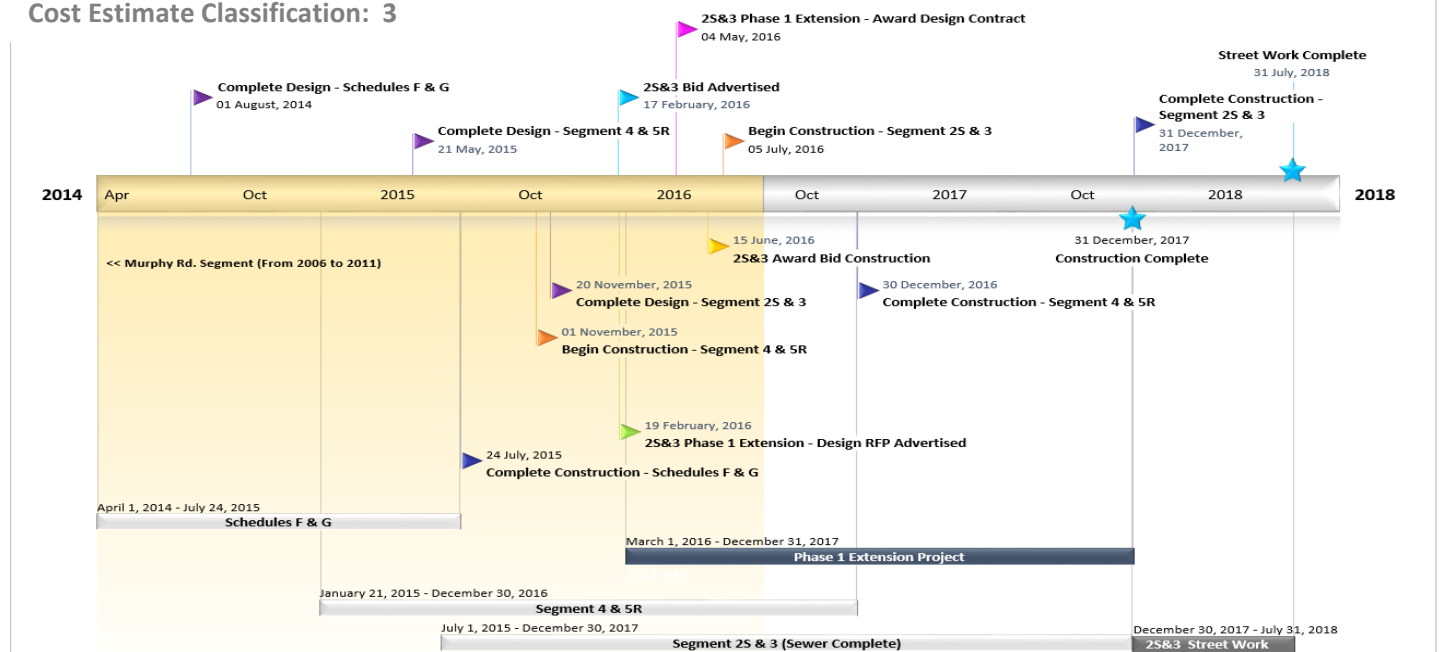


Project Engineer: Eric Forster | eforster@bendoregon.gov

Scope	Schedule	Cost
Design and construction of gravity sewer, from South 3rd street to the Neff Road interim connection. Phase 1 Extension Project, approved in January 2016, adds approximately 3,000 feet of sewer main work.	Start Date: 7/1/2006 Sewer Completion: 12/31/2017 Street Completion: 07/31/2018 Final Closeout: 7/30/2019	Total Estimated: \$71,700,000 Spent to Date: \$30,911,435 % Spent to Estimated: 52%
Status: Increased 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: Night work scheduled to continue through September. Segments 4&5R are currently ahead of schedule with paving anticipated for end of September. Timeline will be adjusted when work is complete. Overall projected schedule not affected by early completion of this segment.

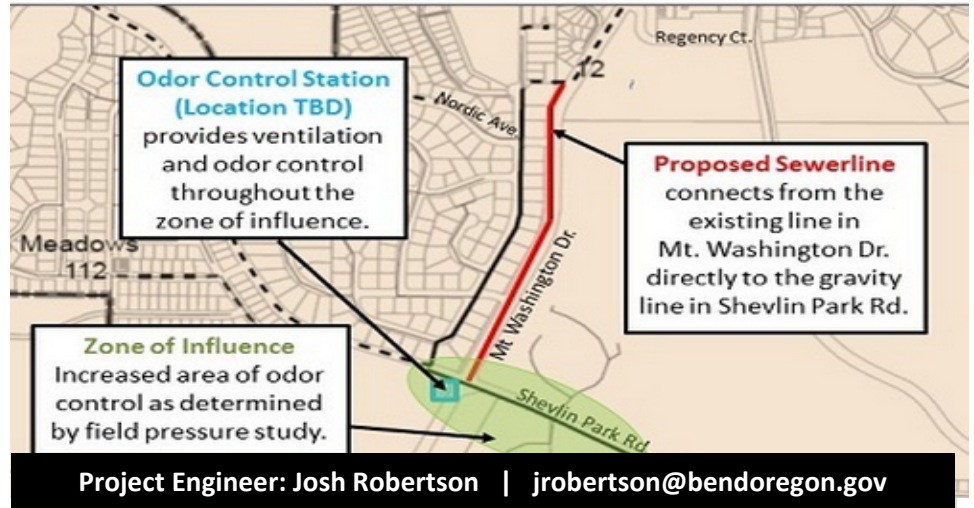
Cost Estimate Classification: 3



Valhalla Odor Control & Sewer Relocation

The Awbrey Glen lift station currently pumps into the sewage collections system located within the Valhalla neighborhood. A large wet well and long force main causes odorous air discharge. The project will mitigate odor and capacity issues in the neighborhood. This will eliminate neighborhood complaints and allow for the sewage pump station to run more efficiently reducing staff time and operating costs.

PROPOSED SEWER IMPROVEMENT PROJECT MAP



Scope

Design and construction of a sewer main to direct sewage around the Valhalla neighborhood and install new odor control systems. Project includes paving restoration.

Schedule

Start Date: 1/24/11
Substantial Completion: 11/14/2016
Final Closeout: 11/14/2017

Cost

Total Estimated: \$1,860,370
Spent to Date: \$361,904
% Spent to Estimated: 19%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

Adjustments: No change from prior month

Status: Potential Cost Increase

Adjustments: Project cost increase likely due to changes in scope and schedule. Cost estimate and budgets will be updated after bid closes.

Status Update: All night work on Shevlin Park Road and the Roundabout at Mt. Washington is complete. Work is now focused on pipe installation and odor control systems on Mt. Washington Drive.

Cost Estimate Classification: 1



North Area Sewer Capacity Improvements

This project will increase the capacity of the gravity main downstream of the multiple force main discharge point at manhole 3157 and reroute the force main discharge from several lift stations and the NE 3rd Street pressure sewer. It will also reconfigure the structure at Mervin Sampels Bypass and include modifications to both the Sawyer and Riverhouse lift stations.



Project Engineer: George Franklet | gfranklet@bendoregon.gov

Scope

Analysis of alternatives for pipeline route and construction methods for crossing of irrigation canals and railroad tracks; design and construction of gravity and force mains, pump station modifications, and flow bypass optimization.

Schedule

Start Date: 10/1/2013
 Substantial Completion: 4/30/2017
 Final Closeout: 4/30/2018

Cost

Total Estimated: \$6,547,522
 Spent to Date: \$994,667
 % Spent to Estimated: 15%

Status: On Scope

Status: Behind Schedule

Status: Potential Budget Adjustment

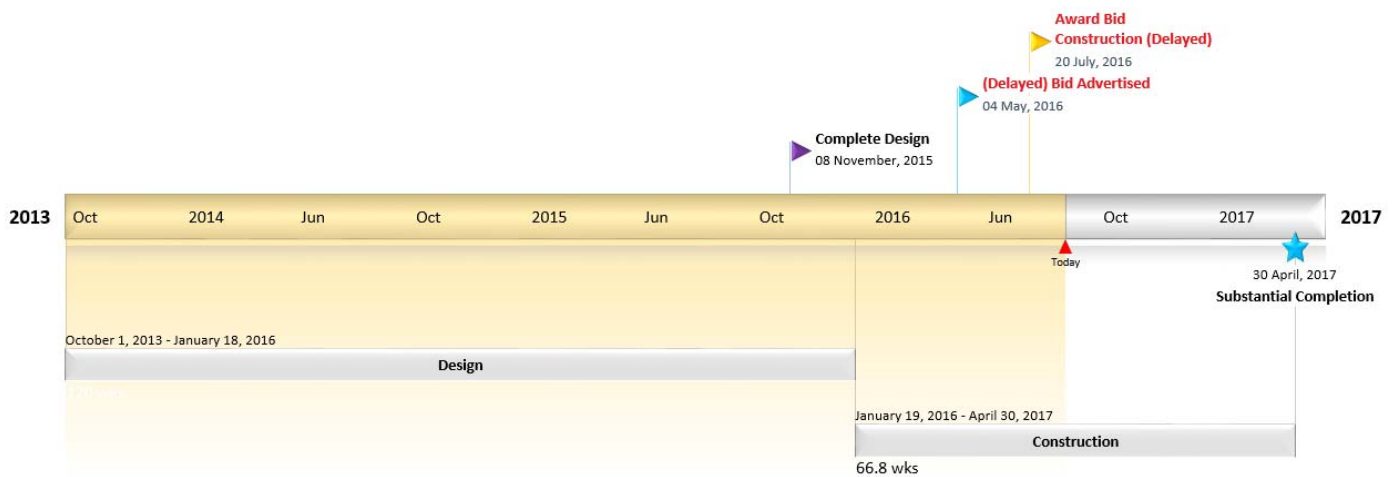
Adjustments: No change from prior month

Adjustments: No change from prior month

Adjustments: No change from prior month

Status Update: One outstanding easement negotiation continues to delay the bid advertisement, however, bid advertisement may be possible without final irrigation district permits.

Cost Estimate Classification: 2



Colorado Pump Station and Sewer Mains

This project includes the design and construction of a new lift station and new gravity and force mains to divert flows from the existing Columbia Street sewer line to an existing trunk line east of the Deschutes River. This new lift station will provide service to future developments on the City's west side, allows decommissioning of an aging sewer lift station with access, capacity, and odor issue, and defer capacity-related improvements at Westside Lift Station.



Scope

Analysis of service area, flows, capacities, alternatives for pump station sizing, siting, and pipeline route; design and construction of pump station, odor control facility, and gravity and force mains; decommissioning pump station.

Schedule

Start Date: 2/1/2013
 Substantial Completion: 01/10/2017
 Final Closeout: 01/10/2018

Cost

Total Estimated: \$13,620,132
 Spent to Date: \$10,680,893
 % Spent to Estimated: 78%

Status: On Scope

Adjustments: No change from prior month

Status: On Schedule

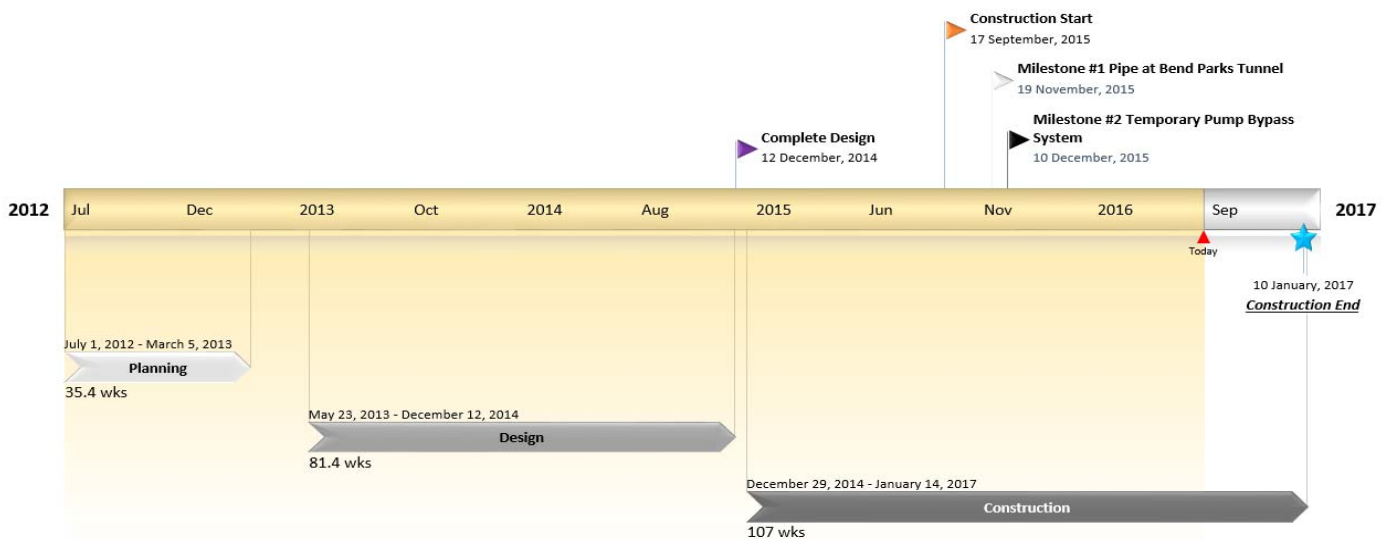
Adjustments: No change from prior month

Status: On Budget

Adjustments: No change from prior month

Status Update: Gravity main construction continues on Allen Road. The exterior walls and roof are nearly complete for both the lift station and generator building. Mechanical piping inside the pump station is complete. Startup testing scheduled to begin in September.

Cost Estimate Classification: 1



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 on the pipe segments in the worst structural condition 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.



Project Engineer: Jason Suhr | jsuhr@bendoregon.gov

Scope

Rehabilitate all Pipeline Assessment Certification Program (PACP) graded 4 and 5 pipe segments with a Cured-In-Place Pipe (CIPP) liner, replace the existing siphon junction box, and clean the double barreled siphons.

Schedule

Start Date: 3/1/2015
 Substantial Completion: 12/29/2017
 Final Closeout: 12/29/2018

Cost

Total Estimated: \$5,738,000
 Spent to Date: \$22,918
 % Spent to Estimated: 0.40%

Status: On Scope

Status: Behind Schedule

Status: On Budget

Adjustments: No change from prior month

Adjustments: No impact to budget or scope due to schedule delay.

Adjustments: No change from prior month

Status Update: The 30-day DEQ public comment period complete and a DEQ Loan has been established. No comments were received. Procurement schedule will be updated in the September report.

Cost Estimate Classification: 5



Riverhouse Lift Station Hydraulic Upgrade

This project was identified in the Collection System Master Plan as a project to be partially funded by the hotel/developer. The City received an in-lieu of payment from the developer to complete the work of downsizing the mechanical pump components to match required capacity for peak we-weather flow and will coordinate the work in conjunction with the North Area Sewer Capacity Improvements project.



Scope

Downsize of mechanical pumping and/or electrical components to decrease hydraulic capacity to closer to required capacity. Rehabilitation and, where required, replacement of deteriorating lift station components where O&M Department condition assessment indicated poor condition: wet well, pumps, motors and electrical equipment

Schedule

Start Date: 2/25/2016
 Substantial Completion: 6/30/2017
 Final Closeout: 6/30/2018

Cost

Total Estimated: \$500,000
 Spent to Date: \$4,507
 % Spent to Estimated: 0.90%

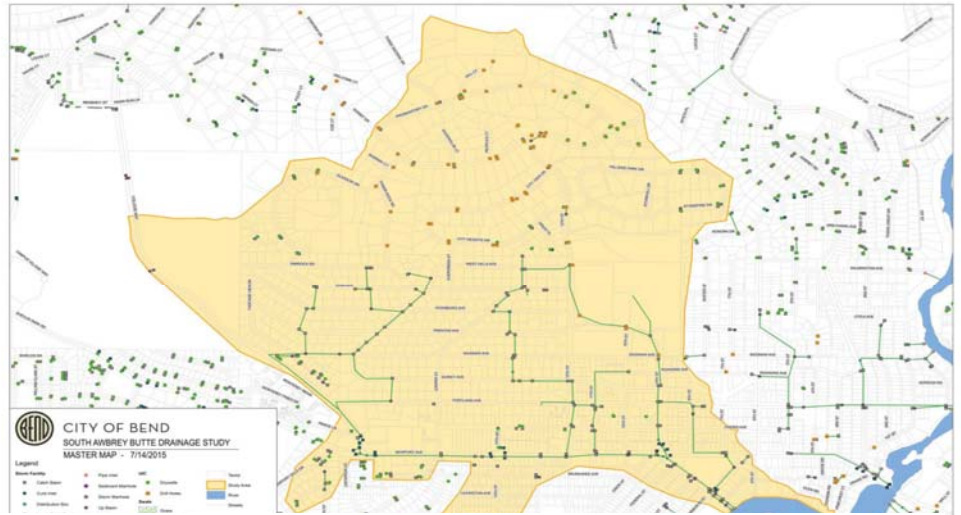
Status Update: Topographic survey is complete and a design kickoff meeting scheduled for September 7. Milestones will be added to the timeline following the design kickoff meeting.

Cost Estimate Classification: 5



South Awbrey Butte Drainage Study

An evaluation will be completed in order to identify areas with run-off problems and complete a modeling effort in order to estimate run-off volumes. This will be the basis for future stormwater system improvements on Awbrey Butte and downstream areas.



Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

Scope	Schedule	Cost
Complete a drainage system analysis for the southern hillside of Awbrey Butte. The intent is to identify and provide recommendations for drainage problem areas, as well as provide design peak flow rates at critical design locations along the Newport Avenue drainage.	Start Date: 7/1/15 Substantial Completion: 05/26/2017 Final Closeout: 05/26/2017	Total Estimated: \$250,000 Spent to Date: \$43,308 % Spent to Estimated: 17%
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: Current efforts include the development of a rainfall simulation model for the project area to assist in determining existing stormwater management issues.

Cost Estimate Classification: 5



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