

Monthly Report

November 2015



MONTHLY REPORT

November 30, 2015 ISSUE 3

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FROM THE DIRECTOR

Executing the Capital Improvement Program portfolio is complex in nature due to the size, volume, various funding sources, project types and delivery methods on projects. With so many variables and ever-changing conditions, it is essential that we collaborate.

In fact, EIPD teamed up with the Growth Management Department in October to initiate three transportation projects focusing on bicycle, pedestrian and vehicle safety issues. Additionally, EIPD has regularly scheduled meetings with Community Development and Private Development Engineering, Street Operations, Utility Operations, and the Accessibility Office. We use this time to prioritize projects and coordinate work efforts. These meeting have had many positive result such as minimizing disruptions to the community due to construction and traffic detours.

This month we are expanding these efforts by adding a financial impact review from the City Finance Director, and an operational impact review from the Public Works Director. These provide added oversight to ensure we stay in alignment with budgetary and operational objectives. You can find these statements at the bottom of this page. In order to allow enough time for these reviews the timeframe for publishing the Engineering monthly report was pushed back a few weeks. This report will now be published on the last day of the month rather than mid-month.

Wishing you happy holiday season from all of us at EIPD.

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.

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

Executive Summary

CIP Numbers Snapshot

- 4 Projects Initiated. Galveston Corridor Improvements Project, Citywide Safety Improvements Project, 14th Street Reconstruction Project, and NE 2nd and Penn Sewer Line Realignment
- 1 Substantially Complete Project. Summit Drive Curb Ramps
- 3 Projects Final Closeout. Simpson & Mt. Washington RAB, Empire & 18th Street RAB, and Powers & Brookswood RAB

| Status | CIP | R&R |
|-----------------------------------------------------------------|-----|-----|
| Open – Planning, Design, Construction | 24 | 1 |
| Substantially Complete – Minor budgets required | 4 | - |
| Final Closeout – No financial obligation, complete or cancelled | 5 | 3 |
| Pending – Projected scheduled to start within the next 5 years | 27 | 41 |
| Total | 60 | 45 |

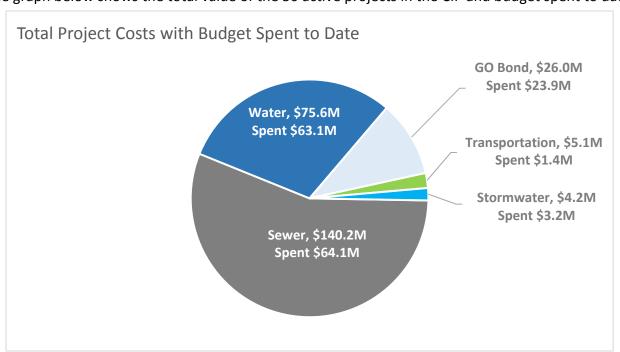
^{*}Completed projects are projects that have been closed out, which is at the end of the warranty period. This is typically one to two years after construction was completed.

Upcoming

In November we will present council with Contract Amendment 9 on the WRF for supplemental construction management services. The Murphy Parrell roundabout bid package was moved back to December and will go to council along with amendments on the 14th Street Reconstruction Project and the Galveston Corridor Improvement Project.

Active Project Cost

The graph below shows the total value of the 30 active projects in the CIP and budget spent to date.



City of Bend 2016 - 2020 Capital Improvement Program Project List

| Project Name & Number | Project Start | Estimated Completion | Project Stage | Cost Estimate Classification | Total Project Budget | Total Project Spent to Date | 2015-16 Adopted Budget | 2016-17 Adopted Budget | 2017-18 Proposed Budget | 2018-19 Proposed Budget | 2019-20 Proposed Budget | Current 5-Year CIP Planned Budgets | Percent Budget Spent |
|----------------------------------------------------|------------------|-------------------------|------------------|------------------------------------|----------------------------|--------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------------------|-------------------------|
| ADA Construction | | | | | | | | | | | | | |
| AA11FA South 3rd Street Pedestrian Improvements | 2011 | 3/31/17 | Design | 4 | 435,309 | 157,953 | 355,000 | - | - | - | - | 355,000 | 36% |
| AA14DA Summit Drive Curb Ramps | 2015 | 10/9/15 | Sub.Complete | 1 | 835,000 | 898,088 | 318,000 | - | - | - | - | 318,000 | 108% |
| AA17XX Future ADA Projects ** | 2017 | TBD | Pending | 5 | 350,000 | - | - | 350,000 | - | - | - | 350,000 | 0% |
| Total ADA Construction Projects | | | | | 1,620,309 | 1,056,041 | 673,000 | 350,000 | - | - | - | 1,023,000 | |
| BURA - Murphy Crossing Construction | | | | | | | | | | | | | |
| ST15MA Murphy & Parrell Roundabout | 2015 | 7/15/16 | Design | 2 | 1,777,000 | 39,986 | 1,300,000 | - | - | - | - | 1,300,000 | 2% |
| Total BURA Murphy Crossing Construction Projects | | | | | 1,777,000 | 39,986 | 1,300,000 | - | - | - | - | 1,300,000 | |
| Transportation Construction | | | | | | | | | | | | | |
| ST11GA Galveston Corridor Improvements | 2011 | 5/30/17 | Planning | 5 | 626,099 | 231,188 | 250,000 | 50,000 | - | - | - | 300,000 | 37% |
| ST14CA Sidewalk Design and Projects | 2014 | 6/30/18 | Planning | 5 | 1,396,097 | 32,306 | 350,000 | 970,000 | 20,000 | - | - | 1,340,000 | 2% |
| ST14DA Neff and Purcell Sidewalks | 2016 | 6/30/17 | Pending | 5 | 800,000 | - | 300,000 | 500,000 | - | - | - | 800,000 | 0% |
| ST14EA Citywide Safety Improvements | 2016 | 9/1/18 | Design | 5 | 3,344,000 | - | 360,000 | - | - | - | - | 360,000 | 0% |
| ST15NA Phase 2 South 3rd Street Striping | 2016 | 6/1/16 | Design | 5 | 30,000 | - | 30,000 | - | - | - | - | 30,000 | 0% |
| Total Transportation Projects | | | | | 6,196,196 | 263,494 | 1,290,000 | 1,520,000 | 20,000 | - | - | 2,830,000 | |
| GO Bond | | | | | | | | | | | | | |
| ST12CB Empire/18th Roundabout | 2012 | 10/15/15 | Complete | 1 | 2,647,809 | 2,642,290 | 10,200 | - | - | - | - | 10,200 | 100% |
| ST12CC Simpson/Mt. Washington Roundabout | 2012 | 10/15/15 | Complete | 1 | 2,181,647 | 2,167,650 | 20,000 | - | - | - | - | 20,000 | 99% |
| ST12CD Powers/Brookswood Roundabout | 2012 | 10/15/15 | Complete | 1 | 2,147,600 | 2,146,000 | 1,000 | - | - | - | - | 1,000 | 100% |
| ST12CE Reed Mkt: Newberry to 27th | 2012 | 10/15/16 | Sub.Complete | 1 | 4,841,330 | 4,820,666 | 20,000 | - | - | - | - | 20,000 | 100% |
| ST12CJ Reed Mkt: 3rd to Newberry | 2012 | 11/13/15 | Construction | 1 | 14,145,450 | 12,081,156 | 4,234,610 | - | - | - | - | 4,234,610 | 85% |
| ST12CH 27th Street Reconstruction | 2017 | 2017 | Pending | 5 | 1,049,300 | - | - | 1,049,300 | - | - | - | 1,049,300 | 0% |
| ST12CK 14th St. Reconstruction | 2016 | 7/9/05 | Planning | 5 | 3,888,950 | - | 2,732,050 | 1,149,300 | - | - | - | 3,881,350 | 0% |
| Total GO Bond Projects | | | | | 30,902,086 | 23,857,762 | 7,017,860 | 2,198,600 | - | - | - | 9,216,460 | |
| Water | | | | | | | | | | | | | |
| WA0902 Bridge Creek Intake and Pipeline | 2008 | 12/31/15 | Construction | 1 | 73,954,698 | 63,125,081 | 14,331,500 | - | - | - | - | 14,331,500 | 85% |
| WA12AA 18th Street Waterline Extension (JR) | 2012 | 4/30/16 | Pending | 2 | 485,063 | 25,063 | 460,000 | - | - | - | - | 460,000 | 5% |
| WA15BA Water SDC Methodology Study | 2016 | 6/30/16 | Pending | N/A | 60,000 | 578 | 60,000 | - | - | - | - | 60,000 | 1% |
| WA15FA Firerock Bridge & Waterline | 2016 | 6/30/17 | Pending | 5 | 450,000 | - | 50,000 | 400,000 | - | - | - | 450,000 | 0% |
| WA15GA South 3rd Street Pedestrian - Water portion | 2017 | 3/31/17 | Design | 4 | 70,000 | - | 70,000 | - | - | - | - | 70,000 | 0% |
| WA15HA Water Master Plan Update | 2016 | 6/30/16 | Pending | N/A | 500,000 | - | 500,000 | - | - | - | - | 500,000 | 0% |
| WA15JA Phase 2 South 3rd St Water portion | 2016 | | Design | 5 | 1,100,000 | - | 1,100,000 | - | - | - | - | 1,100,000 | 0% |
| WA16AA Westwood Reservoir Maintenance | 2016 | 4/30/16 | Cancelled | 5 | 345,000 | - | 345,000 | - | - | - | - | 345,000 | 0% |
| WA20AX Awbrey Well Supply Expansion | 2020 | 2020 | Pending | 5 | 1,944,000 | - | - | - | - | - | 1,944,000 | 1,944,000 | 0% |
| WA20BX Lafayette Pipe Enlargement | 2020 | 2020 | Pending | 5 | 241,000 | - | - | - | - | - | 241,000 | 241,000 | 0% |
| WA20CX College Parallel Pipe Study | 2020 | 2020 | Pending | N/A | 1,169,000 | - | - | - | - | - | 1,169,000 | 1,169,000 | 0% |
| WA20DX Valves Operational System Study | 2020 | 2020 | Pending | N/A | 75,000 | - | - | - | - | - | 75,000 | 75,000 | 0% |
| Total Water Projects | | | | | 80,393,761 | 63,150,721 | 16,916,500 | 400,000 | - | - | 3,429,000 | 20,745,500 | |

City of Bend 2016 - 2020 Capital Improvement Program Project List

| Project Name & Number | Project Start | Estimated Completion | Project Stage | Cost Estimate Classification | Total Project Budget | Total Project Spent to Date | 2015-16 Adopted Budget | 2016-17 Adopted Budget | 2017-18 Proposed Budget | 2018-19 Proposed Budget | 2019-20 Proposed Budget | Current 5-Year CIP Planned Budgets | Percent Budget Spent |
|------------------------------------------------------------------|------------------|-------------------------|------------------|------------------------------------|----------------------------|--------------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|------------------------------------------|-------------------------|
| Sewer - Water Reclamation | | | | | | | | | | | | | |
| SW0802 Secondary Expansion | 2009 | 12/30/18 | Construction | 1 | 49,835,881 | 37,817,131 | 6,148,000 | 1,102,000 | - | - | - | 7,250,000 | 76% |
| SW14CA Headworks Upgrade | 2016 | 10/1/17 | Pending | 1 | 1,720,492 | 176,018 | 1,000,000 | - | - | - | - | 1,000,000 | 10% |
| SW16AA Solids Handling (Secondary Expansion) | 2017 | 2020 | Pending | 1 | 4,000,000 | - | - | 250,000 | 1,750,000 | 1,000,000 | 1,000,000 | 4,000,000 | 0% |
| SW0707 Southeast Interceptor Phase 1 | 2007 | 2018 | Construction | 3 | 57,000,000 | 19,135,952 | 16,163,000 | 7,925,000 | 7,185,000 | - | - | 31,273,000 | 34% |
| SW0707 SEI Phase II North Medical Center to Deschutes Market Rd. | 2020 | 2025 | Pending | 5 | 16,500,000 | - | - | - | - | - | 5,737,000 | 5,737,000 | 0% |
| SW11BA Valhalla Sewer Relocation | 2011 | 10/31/17 | Design | 3 | 1,860,370 | 131,556 | 1,746,000 | - | - | - | - | 1,746,000 | 7% |
| SW12AA Collection System Master Plan Update | 2012 | 12/30/15 | Sub.Complete | 5 | 3,791,557 | 3,820,955 | 506,000 | - | - | - | - | 506,000 | 101% |
| SW13DA North Area Sewer Capacity Improvements | 2013 | 11/1/17 | Design | 3 | 6,547,522 | 676,732 | 5,909,300 | - | - | - | - | 5,909,300 | 10% |
| SW13EA Colorado Pump Station and Sewer Mains | 2013 | 12/30/17 | Construction | 1 | 13,620,132 | 2,289,239 | 11,321,400 | - | - | - | - | 11,321,400 | 17% |
| SW14BA Deschutes Brewery Sewer | 2016 | 7/1/15 | Complete | 1 | 300,000 | - | 170,000 | - | - | - | - | 170,000 | 0% |
| SW15AA Plant Interceptor Rehabilitation | 2015 | 12/31/16 | Planning | 5 | 5,738,000 | 20,955 | 5,718,000 | - | - | - | - | 5,718,000 | 0.4% |
| SW15DA N.E. 2nd & Penn Sewer Line Realignment | 2016 | 12/31/16 | Planning | 4 | 300,000 | - | 100,000 | 200,000 | - | - | - | 300,000 | 0.0% |
| SW15GA Wood River Village Lift Station/Vacuum Evaluation | 2016 | 2/28/16 | Planning | N/A | 50,000 | - | 50,000 | - | - | - | - | 50,000 | 0% |
| SW15IA Bend South Sewer Evaluation | 2016 | 2/28/16 | Planning | N/A | 50,000 | - | 50,000 | - | - | - | - | 50,000 | 0% |
| SW15JA WRF Treatment Plant Upgrades | 2016 | On-Going | Pending | 5 | 700,000 | - | 100,000 | 100,000 | 100,000 | 200,000 | 200,000 | 700,000 | 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 | - | - | - | 581,000 | - | - | 581,000 | 0% |
| SW15KA WRF Evaporation Percolation Ponds | 2019 | 2019 | Pending | 5 | 1,567,000 | - | - | - | - | 1,567,000 | - | 1,567,000 | 0% |
| SW19AX Amethyst/Mahogany Street Sewer | 2019 | 2019 | Pending | 5 | 679,000 | - | - | - | - | 679,000 | - | 679,000 | 0% |
| SW19BX Mahogany Street/Hwy 97 Sewer | 2019 | 2019 | Pending | 5 | 999,000 | - | - | - | - | 999,000 | - | 999,000 | 0% |
| SW18AA WRF Support Facilities Upgrade | 2020 | 2020 | Pending | 5 | 2,400,000 | - | - | - | - | - | 2,400,000 | 2,400,000 | 0% |
| SW20AX Odor Control Master Plan | 2020 | 2020 | Pending | 5 | 1,000,000 | - | - | - | - | - | 1,000,000 | 1,000,000 | 0% |
| SW20BX Sewer Storage - Land Acquisition | 2020 | 2020 | Pending | 5 | 700,000 | - | - | - | - | - | 700,000 | 700,000 | 0% |
| SW20EX Plant Interceptor Condition Assessment | 2020 | 2020 | Pending | 5 | 600,000 | - | - | - | - | - | 600,000 | 600,000 | 0% |
| SW20FX Collection System Master Plan (Years 6-10) | 2020 | 2020 | Pending | 5 | 1,000,000 | - | - | - | - | - | 1,000,000 | 1,000,000 | 0% |
| SW20GX Gravity Pipe Condition Assessment | 2020 | 2020 | Pending | 5 | 200,000 | - | - | - | - | - | 200,000 | 200,000 | 0% |
| Total Water Reclamation (Sewer) Projects | | | | | 172,239,954 | 64,068,537 | 48,981,700 | 9,577,000 | 10,116,000 | 4,445,000 | 12,837,000 | 85,956,700 | |
| Stormwater | | | | | | | | | | | | | |
| SR0802 Drake and Dohema Pump Station | 2008 | 4/15/17 | Construction | 1 | 404,686 | 217,686 | 172,000 | - | - | - | - | 172,000 | 54% |
| SR09AA Third Street Underpass | 2009 | 10/30/16 | Sub.Complete | 1 | 2,999,008 | 2,964,759 | 55,000 | - | - | - | - | 55,000 | 99% |
| SR14AA Phase 2 3rd Street - Stormwater portion | 2016 | 3/30/16 | Planning | 5 | 400,000 | - | 400,000 | - | - | - | - | 400,000 | 0% |
| SR15AA South Awbrey Butte Drainage Study | 2016 | 10/1/16 | Planning | N/A | 250,000 | - | 150,000 | 100,000 | - | - | - | 250,000 | 0% |
| SR15BA South 3rd Street - Stormwater portion | 2016 | 3/31/16 | Design | 4 | 150,000 | - | 150,000 | - | - | - | - | 150,000 | 0% |
| SR15CA Newport Pipe Replacement Design | 2018 | 2019 | Pending | 5 | 425,000 | - | - | - | - | 425,000 | - | 425,000 | 0% |
| Total Stormwater Projects | | | | | 4,628,694 | 3,182,445 | 927,000 | 100,000 | - | 425,000 | - | 1,452,000 | |
| Total Capital Improvement Program Projects | | | | | 297,758,000 | 155,618,984 | 77,106,060 | 14,145,600 | 10,136,000 | 4,870,000 | 16,266,000 | 122,523,660 | |

Blue highlights indicate projects with detail project sheets.

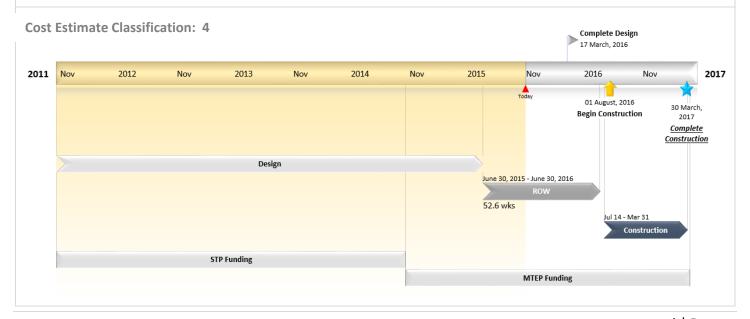
Phase I - S. 3rd St. Pedestrian Improvements

Project will 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.



| Scope | Schedule | Cost | | |
|--------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------|--|--|
| Design, right of way acquisition, and | Start Date: 11/1/2011 | Total Estimated: \$655,309 | | |
| construction of sidewalks, curb | Substantial Completion: 3/31/2017 | Spent to Date: \$157,953 | | |
| ramps that is coordinated with other infrastructure for water, stormwater, | Final Closeout: 3/31/2018* | Percent Spent: 24% | | |
| and streets. April 2015 reduction in scope decreased construction duration by approximately 25%. | * Includes warranty period | Three Projects: ADA \$435,309, Water \$70,000, Stormwater \$150,000 | | |
| | | Amount reduced - Prior report included unrelated expenditures in error. | | |
| 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: No change from last month



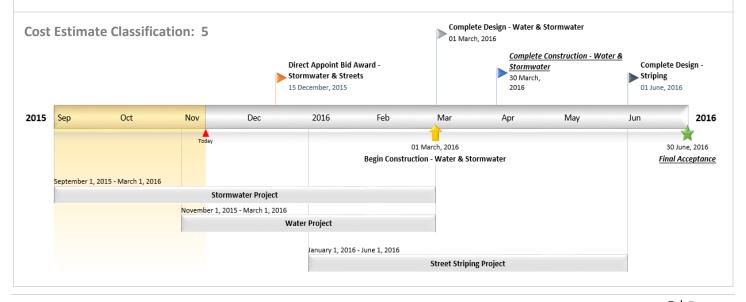
Phase 2 - S. 3rd Street Improvements

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.



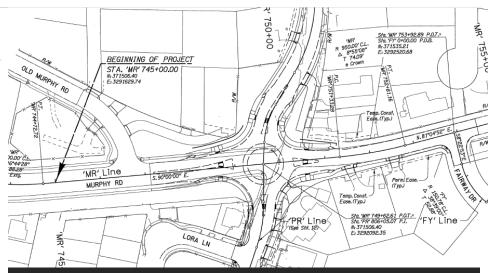
| Scope | Schedule | Cost |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Includes design and construction for streets, water, and stormwater. This work will include an analysis of the drainage basin to assess the performance and condition of the existing stormwater facilities; creation of a striping and paving plan; replace existing 2-inch sub-standard waterlines with 8-inch pipelines. | Start Date: 10/1/2015 Substantial Completion: 6/30/2016 Final Closeout: 7/1/2017* * Includes warranty period | Total Estimated: \$1,530,000 Spent to Date: \$0 Percent Spent: 0% Three Projects: Water \$1,100,000, Stormwater \$400,000, Streets \$30,000 |
| 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: Potential schedule change for water portion due to street preservation timing.



Murphy & Parrell Roundabout

This project will finalize the original conceptualized 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.

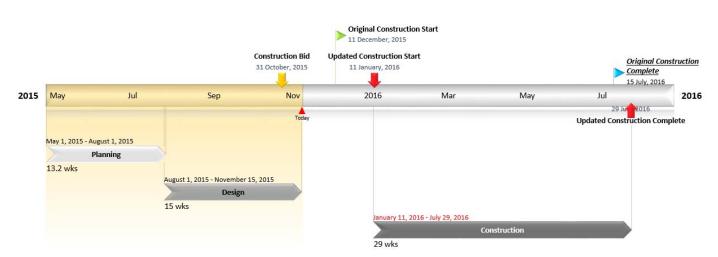


| Project Engineer: Ry | an Octor I | roster@bendoregon.gov |
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| Scope | Schedule | Cost |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 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. | 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 | Total Estimated: \$2,000,000 Spent to Date: \$39,986 Percent Spent: 2% |
| Status: On Scope | Status: Slight Schedule Delay | Status: On Budget |
| Adjustments: No change from prior month | Adjustments: Work slide on completion date due to DEQ bid related items on Schedule B SEI work performed on this job site. | Adjustments: No change from prior month |

Status Update: No change from last month.

Cost Estimate Classification: 2



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: Ryan Oster | roster@bendoregon.gov

| Scope | Schedule | Cost |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 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. | Start Date: 06/01/2011 Substantial Completion: TBD Final Closeout: TBD | Total Estimated: \$626,099* Spent to Date: \$231,188 Percent Spent: 37% * Includes planning expenditures not captured in CIP budgets. |
| 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. Initial timeline will be modified when more information is available on the project.



Citywide Safety Improvements

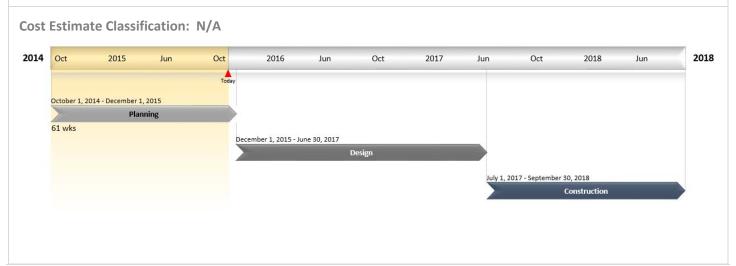
With the help of the community and a prior safety study, the city has identified multiple locations across the city where there have been a high number of crashes. Several treatments are proposed to make these locations safer for people walking, riding bicycles, and driving. This project will further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



Project Engineer: Rory Rowan | rrowan@bendoregon.gov

| Scope | 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. | Start Date: 10/1/2014 Substantial Completion: 9/30/2018 Final Closeout: 9/30/2019* * Includes warranty period | Total Estimated: \$3,344,000 Spent to Date: \$0 Percent Spent: 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. Initial timeline will be modified and milestones identified when more information is available on the project.



GO Bond Reed Market: 3rd to Newberry

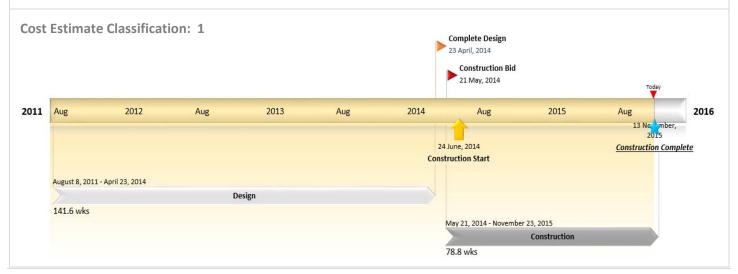
Improved safety of the corridor for vehicular, pedestrian, and bicycle traffic. Reduced congestion in the corridor. Provides new stormwater facilities, signing, lighting, retaining walls and striping; upgrades the existing railroad crossing; and realigns American Lane to the west of the current location and reconstructs a bridge at the new location.



| Scope | Schedule | Cost |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Design and construction of travel lanes, turn lane, 6-foot shoulders and bike lanes, separated sidewalks and a landscape strip. At the intersection of Reed Market and 15th Street the existing signalized intersection will be upgraded to a roundabout. Construction management and inspection services. | Start Date: 8/8/2011 Substantial Completion: 11/13/2015 Final Closeout: 11/13/2018* * 1 Year warranty and 2 years additional for plant establishment | Total Estimated: \$14,145,450 Spent to Date: \$12,081,156* Percent Spent: 85% * Final billing has not been processed. |
| Status: On Scope | Status: On Schedule | Status: On Budget |
| Adjustments: No change | Adjustments: No change | Adjustments: No change |

There has been a great deal of public comment and scrutiny over the length of time and disruption caused to the corridor as a result of this project. The City could have completed the work on the project within a one year period with full shutdown of the corridor. However, Council chose to perform the work in stages in order to minimize the impact to businesses, resulting in a significant increase to project timelines.

Status Update: Signal at American Lane was activated, the illumination was installed and the final striping was completed between the RR and 15th Street. Landscaping work is being done and punch list item work will begin soon.



14th Street Reconstruction

Improve safety of corridor from SW Simpson Avenue to NW Galveston 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.



Project Engineer: Ryan Oster | roster@bendoregon.gov

| Scope | Schedule | Cost |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------------------------------|
| 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. | Start Date: 06/30/2014 Substantial Completion: TBD Final Closeout: TBD | Total Estimated: \$3,888,950 Spent to Date: \$0 Percent Spent: 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. Initial timeline will be modified when more information is available on the project.



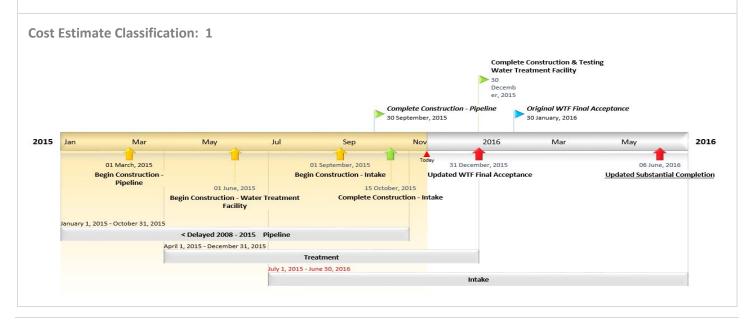
Bridge Creek Intake, Pipeline & Treatment

Replace pipeline to reduced risk of transmission main failure to secure a dual water supply source. Membrane treatment for surface water to meet federal treatment requirements to treat for Cryptosporidium will also protect Bend's surface water in the event of a fire in the watershed. Intake does not meet current building code, and lacks fish screens. New intake allows remote monitoring and operation of the facilities.



| Scope | Schedule | Cost |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Feasibility study of alternative water supplies; design and construction to replace transmission lines, intake, flow control, fish screens, membrane filtration, construction management, and inspection services. These costs also include all costs related to legal. | Start Date: 4/1/2008 Substantial Completion: 12/30/2015 Final Closeout: 12/30/2016* * Includes warranty periods | Total Estimated: \$73,954,698 Spent to Date: \$63,125,081 Percent Spent: 85% |
| Status: Modified Scope | Status: Schedule Adjusted | Status: On Budget |
| Adjustments: Modifications to Intake scope based on existing conditions. No impact to cost. | Adjustments: Schedule adjusted due to modifications in scope to Intake. No impact to cost. | Adjustments: No change from prior month |

Status Update: WTF final commission on-going. Intake 10% complete.



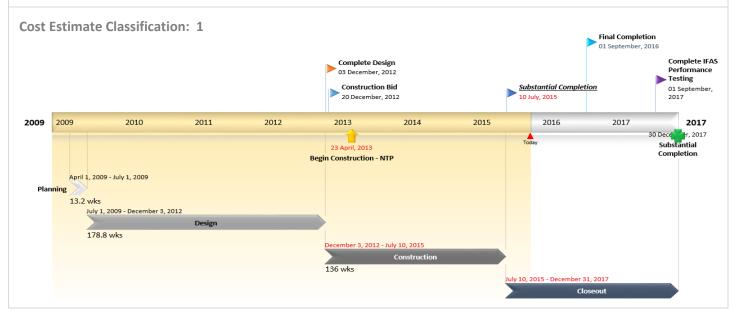
Water Rec. Facility Secondary Expansion

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 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 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The project adds a primary clarifier, aeration basin, blower facilities, UV and sodium hypochlorite disinfection improvements, and various piping modifications. Removed large portion of original scope to reduce overall expenditures. | Start Date: 4/1/2008 Substantial Completion: 12/30/2017 Final Closeout: 12/30/2018* * Includes warranty period | Total Estimated: \$60,000,000 Spent to Date: \$37,536,109 Percent Spent: 73% Includes Facilities Plan, pre-design, final design, services during construction, and construction. |
| Status: On Scope | Status: Construction Delayed | Status: Potential Cost Increase |
| Adjustments: Removed portions of scope from contract. | Adjustments: Does not include work change directives 66, 67, 68 – Revised schedule TBD. | Adjustments: Potential cost increase. Amount unknown at this time. |

Status Update: Construction continues at multiple facilities including aeration basin 4, Blower Bldg. B, Primary Clarifier 3, yard piping, and Plant Effluent Bldg. Portions of the Work have been removed by Work Change Directives 66, 67, and 68. Cost and schedule implications are unclear at this time and will be resolved over the coming weeks.



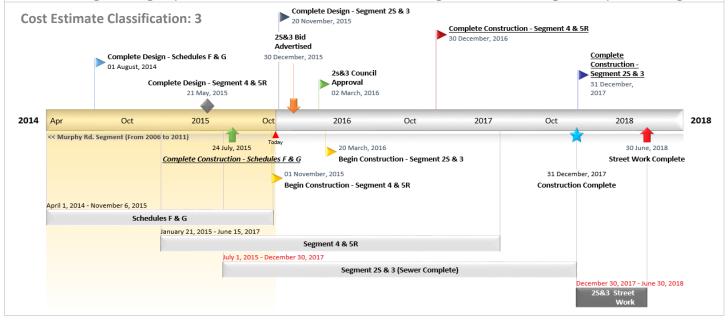
Southeast Interceptor Phase I

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.



| Scope | Schedule | Cost |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Design and construction of gravity sewer, from South 3rd street to the Neff Road interim connection. | Start Date: 7/1/2006 Substantial Completion: 12/31/2017 Final Closeout: 4/30/2018* * Includes warranty period | Total Estimated: \$60,000,000 Spent to Date: \$18,900,399 Percent Spent: 33% |
| Status: On Scope | Status: Potential Revision | Status: On Budget |
| | | |

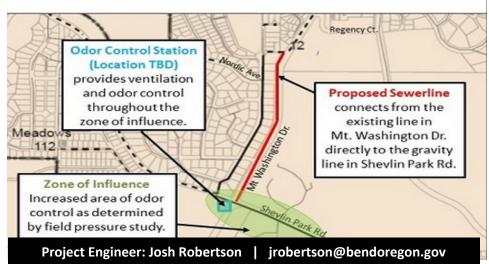
Status Update: Segments 4&5R: Initial existing utility confirmations being performed by contractor. Heavy trenching scheduled to begin the first week of January. Segments 2S&3: Significant door to door public outreach/visits to commercial areas, medical areas, and apartment management staff. Six public meetings scheduled in November and December targeted to groups with common interests, the last one being a catch-all meeting for the public at large.



Valhalla Odor Control & Sewer Relocation

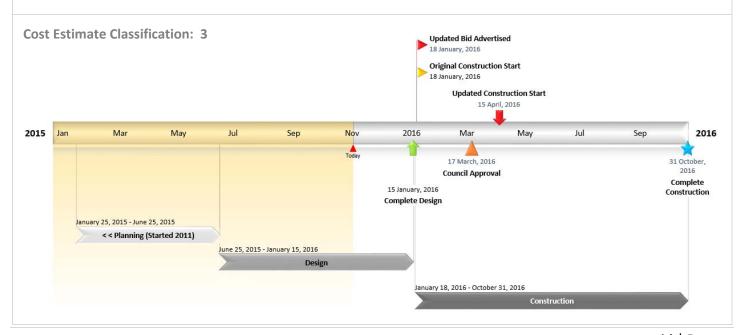
The Awbrey Glen lift station currently pumps into the sewage collections system located within the Valhalla neighborhood. A large wet well and long force main causes odorous air discharge. The project will mitigate odor and capacity issues in the neighborhood. This will eliminate neighborhood complaints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

PROPOSED SEWER IMPROVEMENT PROJECT MAP



| Scope | Schedule | Cost |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| Design and construction of a sewer main to direct sewage around the Valhalla neighborhood and install new odor control systems. | Start Date: 1/24/11 Substantial Completion: 10/16/2016 Final Closeout: 10/31/2017* * Includes warranty period | Total Estimated: \$1,860,370 Spent to Date: \$131,556 Percent Spent: 7% |
| Status: On Scope | Status: Revised Construction Schedule | Status: On Budget |
| Adjustments: No change from prior month | Adjustments: Deprioritized project based on current workload. | Adjustments: No change from prior month |

Status Update: No change from last month.



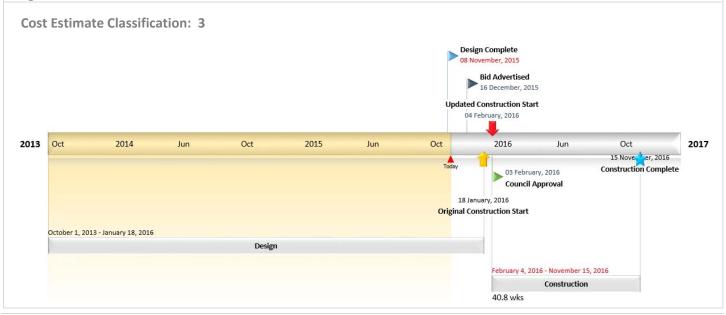
North Area Sewer Capacity Improvements

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.



| Scope | Schedule | Cost |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 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. | Start Date: 10/1/2013 Substantial Completion: 11/1/2016 Final Closeout: 11/1/2017* * Includes warranty period | Total Estimated: \$6,547,522 Spent to Date: \$676,732 Percent Spent: 10% |
| Status: On Scope | Status: Revised Construction Schedule | Status: On Budget |
| Adjustments: No change from prior month | Adjustments: Bid and construction schedule adjusted. | Adjustments: No change from prior month |

Status Update: Finalizing plans and specifications for both the gravity and force main portions of the project. Negotiating construction easements with private land owners and completing permits with North Unit Irrigation District and BNSF RR.



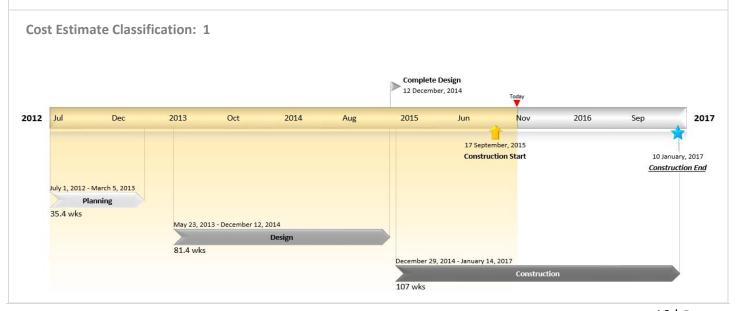
Colorado Pump Station and Sewer Mains

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.



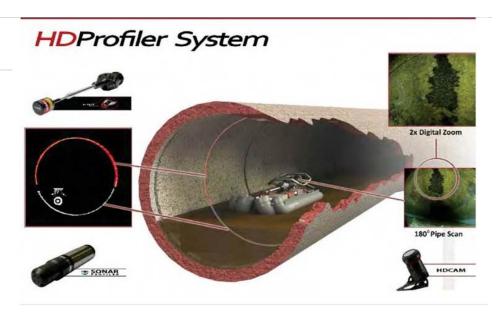
| Scope | Schedule | Cost |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| 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. | Start Date: 2/1/2013 Substantial Completion: 01/10/2017 Final Closeout: 01/10/2018* * Includes warranty period | Total Estimated: \$13,620,132 Spent to Date: \$2,231,663 Percent Spent: 16% |
| Status: In Negotiation | Status: On Schedule | Status: On Budget |
| Adjustments: Negotiating with consultant on scope change for work on DEQ Loan requirements and design modification for Parks & Rec tunnel. | Adjustments: No change from prior month | Adjustments: No change from prior month |

Status Update: Installation of the sewer mains within the BPRD closure of Colorado Avenue continued on and east of the bridge in coordination with the construction of the new tunnel undercrossing. Due to delays caused by unforeseen site conditions, the closure will be extended to November 20th.



Plant Interceptor Rehabilitation

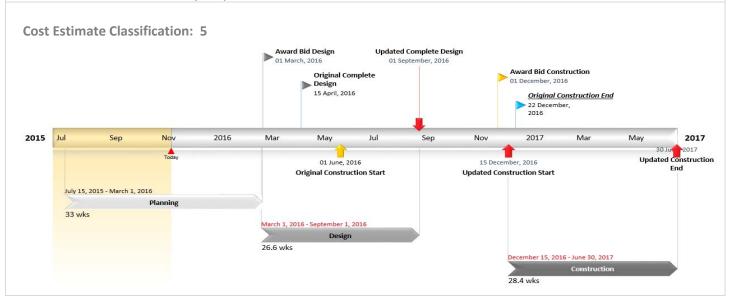
The existing plant interceptor conveys all of the City's sewage to the WRF and the pipeline is deteriorating due to age as well as the sulfides breaking down the concrete wall. This project will rehabilitate the plant interceptor by designing and constructing a liner and corrosion control (air extraction) system. This solution provides protection for the worst portions of the pipe and lessens the deterioration rate of the other pipeline segments.



Project Engineer: Jason Suhr | jsuhr@bendoregon.gov

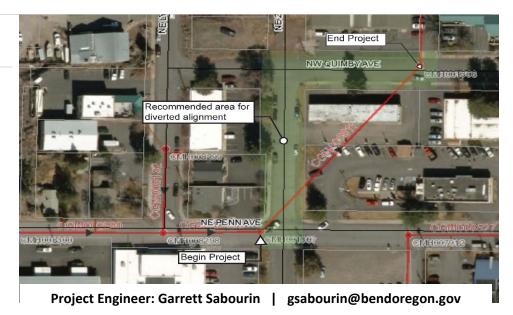
| Scope | Schedule | Cost |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Rehabilitate all grade 4 and 5 pipe segments with a liner as identified in the PICA. Dig and replace four segments that were identified in the CSMP as undersized for future flow projections. Install corrosion control air extraction facility to slow the degradation of the concrete pipeline. | Start Date: 3/1/2015 Substantial Completion: 6/30/2017 Final Closeout: 6/30/2018* * Includes warranty period | Total Estimated: \$5,738,000 Spent to Date: \$20,955 Percent Spent: 0.40% |
| Status: On Scope | Status: Revised Schedule | Status: On Budget |
| Adjustments: No change from prior month. | Adjustments: Adjusted schedule to align with scope and project deliverables. | Adjustments: No change from prior month |

Status Update: Discussions are on-going regarding the execution of the PI rehab work in conjunction with the NI, SEI, and new PI. Potential to modify scope based on these discussions.



NE 2nd & Penn Sewer Line Realignment

The sewer main of interest currently intersects two (2) private property parcels and exceeds the hydraulic requirements for the serviced catchment area. The purpose of this project is to design an alternate route, within the City of Bend Right of Way which meets current standards.



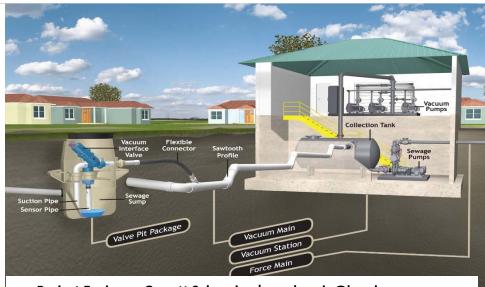
| Scope | Schedule | Cost |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Design and construct a section of gravity sewer main to provide an alternative conveyance route within the City of Bend Right of Way. | Start Date: 11/18/2015 Substantial Completion: 5/27/2016 Final Closeout: 5/27/2017* * Includes warranty period | Total Estimated: \$300,000 Spent to Date: \$0 Percent Spent: 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, contract executed and design phase initiated. Construction timeframe will be modified when more information is available on the project.



Wood River Village Lift Station & Vacuum Eval.

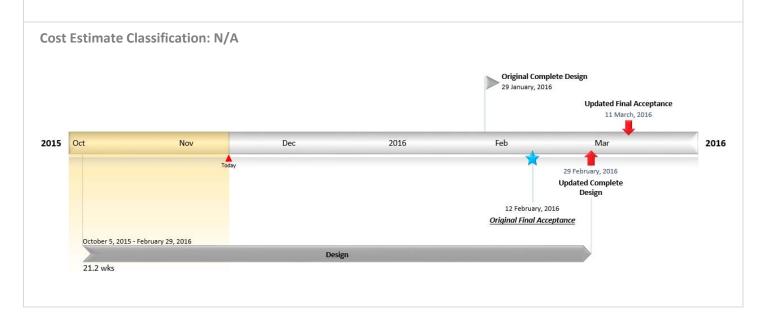
Evaluate existing system conditions in order to determine existing and future capacity as well as future development potential within the area.



Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

| Scope | Schedule | Cost |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------|
| Complete a sewer system analysis and develop three (3) preliminary design solutions for a longstanding replacement and/or upgrade to the developments collection system. | Start Date: 9/1/2015 Substantial Completion: 3/11/2016 Final Closeout: 3/11/2016 | Total Estimated: \$50,000 Spent to Date: \$0 Percent Spent: 0% |
| Status: On Scope | Status: Revised Schedule | Status: On Budget |
| Adjustments: No change from prior month | Adjustments: Updated to reflect approved contract schedule | Adjustments: No change from prior month |

Status Update: Direct appoint contract routed for approval, with notice to proceed scheduled for issuance on November 16, 2015.



Bend South Sewer Evaluation

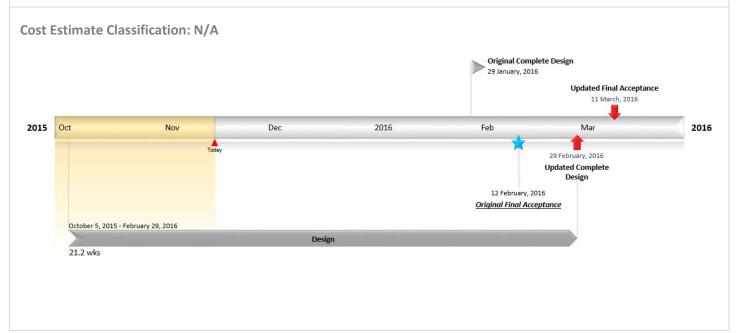
Evaluate existing system locations and conditions in order to determine existing and future capacity as well as future development potential within the area. This is part of the former Juniper Utility.



Project Engineer: Garrett Sabourin | gsabourin@bendoregon.gov

| Scope | Schedule | Cost |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Complete a sewer system analysis and develop three (3) preliminary design solutions for a longstanding replacement and/or upgrade to the developments collection system. | Start Date: 10/05/2105 Substantial Completion: 3/11/2016 Final Closeout: 3/11/2016 | Total Estimated: \$50,000 Spent to Date: \$0 Percent Spent: 0% |
| Status: On Scope | Status: Revised Schedule | Status: On Budget |
| Adjustments: No change from prior month | Adjustments: Updated to reflect approved contract schedule | Adjustments: No change from prior month |

Status Update: Direct appoint contract routed for approval, with notice to proceed scheduled for issuance on November 16, 2015.



Drake and Dohema Pump Station

A nine acre basin drains to the intersection of Drake and Dohema. The existing stormwater system consists of catch basins and drill holes. The existing drill holes fail to take in water, causing flooding. During larger storm events the water floods neighboring basements and has caused significant property damage in the past. The project will help prevent flooding and protect groundwater.



Project Engineer: Ryan Oster | roster@bendoregon.gov

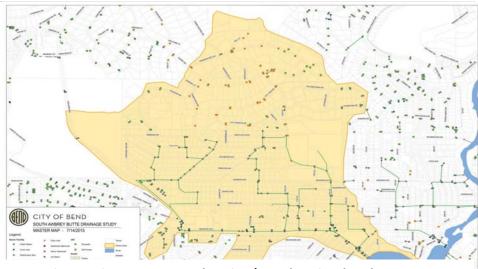
| Scope | Schedule | Cost |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| The collection system, force mains and treatment swale have been constructed. The remaining work includes installation of a control panel, minor conduit work, and a pump system. | Start Date: 4/1/2011 Substantial Completion: 4/15/2016 Final Closeout: 4/15/2017* * Includes warranty period | Total Estimated: \$404,686 Spent to Date: \$217,686 Percent Spent: 54% Cost savings by self- performing the instillation of pumps and control panels. |
| 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: No change from prior month



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 Storm Sewer Line. | Start Date: 7/1/15 Substantial Completion: 12/26/2016 Final Closeout: 01/02/2017 | Total Estimated: \$250,000 Spent to Date: \$0 Percent Spent: 0% |
| Status: On Scope | Status: Revised Schedule | Status: On Budget |
| Adjustments: No change from prior month | Adjustments: Deprioritized project based on current workload. | Adjustments: No change from prior month |

Status Update: Potential schedule update after advertisement dates determined.

