



CJ  
3/2/18

**ROSEBURG PUBLIC WORKS COMMISSION AGENDA  
THURSDAY, MARCH 8, 2018**

**3:30 Regular Meeting                      City Hall Third Floor Conference Room  
900 SE Douglas Avenue, Roseburg, Oregon 97470**

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**NOTE: IT IS UP TO EACH OF YOU AS COMMISSIONERS TO CALL 541-492-6730 AND LET STAFF KNOW BEFORE THE DAY OF THE MEETING IF YOU WILL NOT BE ATTENDING. THANK YOU.**

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**I. CALL TO ORDER**

**II. ROLL CALL:**

Chair: Steve Kaser  
Commissioners: Nathan Reed                      Stuart Liebowitz                      Noel Groshong  
John Seward                      Vern Munion                      Fred Dayton  
Ken Hoffine                      Vacant

**III. APPROVAL OF MINUTES**

A. February 8, 2018

**IV. DISCUSSION ITEMS**

- A. Phase 2 – Water System SCADA Improvements – Construction Bids
- B. Water Treatment Plant – Variable Frequency Drives (VFD) Retrofit – Construction Bids
- C. Intergovernmental Agreement with ODOT for ARTS Project
- D. Draft American with Disabilities (ADA) Transition Plan – Public Right-of-Way Facilities
- E. Draft Five Year Capital Improvement Plan Updates

**AUDIENCE PARTICIPATION** – At this time, anyone wishing to address the Commission concerning items of interest not included in the agenda may do so. The person addressing the Commission shall, when recognized, give his/her name for the record. All remarks shall be directed to the whole Commission. The Commission reserves the right to delay any action, if required, until such time when they are fully informed on the matter.

**V. INFORMATIONAL**

A. Project Update - Verbal

**VI. BUSINESS FROM THE COMMISSION**

**VII. NEXT MEETING DATE: April 12, 2018**

**VIII. ADJOURNMENT**

**\*\*\* AMERICANS WITH DISABILITIES ACT NOTICE \*\*\***

Please contact the Office of the City Recorder, Roseburg City Hall, 900 SE Douglas Avenue, Roseburg, OR 97470-3397 (Phone 541-492-6700) at least 48 hours prior to the scheduled meeting time if you need an accommodation. TDD users please call Oregon Telecommunications Relay Service at 1-800-735-2900.

**CITY OF ROSEBURG  
PUBLIC WORKS COMMISSION MEETING  
FEBRUARY 8, 2018  
MINUTES**

**CALL TO ORDER:** The meeting of the City of Roseburg Public Works Commission was called to order at 3:30 p.m. Thursday, February 8, 2018 in the Third Floor Conference Room at City Hall.

**ROLL CALL:** Present: Chair Steve Kaser, Commissioners Nathan Reed, John Seward, Stuart Liebowitz, Fred Dayton, and Vern Munion

Absent: Noel Groshong

Others Present: City Councilor Linda Fisher-Fowler, News Review Reporter John Dicky, Citizen Dick Dolgonas

Attending Staff: City Manager Lance Colley, Public Works Director Nikki Messenger, Engineer Mark Rodgers, and Department Technician Chanelle Rogers

**APPROVAL OF MINUTES:** Reed moved to approve the minutes of the January 11, 2018 Public Works Commission meeting. Motion was seconded by Seward and carried unanimously.

**DISCUSSION ITEMS:**

**Task Order Award Recommendation 2018 Pavement Management Projects – Overlays:**

Messenger informed that in late 2014, the City awarded a Five Year Pavement Management contract to Murraysmith, Inc, with the understanding that each task order would be negotiated based on the work to be accomplished. Messenger briefly went over the streets staff has identified as a top priority for 2018. The scope of this task order would be for the complete study and design services required to prepare biddable construction documents. Munion questioned what the section of Stewart Parkway from Valley View was. Messenger informed it is the part of Stewart Parkway from where the widening project ended up to Valley View, staff had asked the contractor if they could include with the widening project but the cost was too much.

**MOTION:** Reed moved to recommend to City Council the award of a task order for 2018 Pavement Rehabilitation design services to Murraysmith, Inc. for an amount not to exceed \$72,411. Motion was seconded by Dayton and carried unanimously.

**Draft American with Disabilities Transition Plan – Public Right-of-Way Facilities:**

Messenger informed that staff has been working with a consultant to develop and ADA Transition Plan for Public Right-of-Way facilities and the draft was included in the packet. Rodgers stated the consultant assessed 1,626 sidewalk access ramps, sixteen transit stops and 115 pedestrian push buttons as part of the plan. A small percentage of the facilities assessed were fully compliant with current ADA standards. Rodgers said many of the substandard ramps will be replaced in conjunction with pavement management projects. Rodgers informed the draft plan is currently available to the public for review and comment, there will also be an open house held at the conclusion of the comment period. Staff and the consultant will review the comments and incorporate the valid comments into the final plan. Discussion ensued regarding prioritizing the projects and the time frame for accomplishing it all. It was asked how Roseburg compares with other cities. Rodgers said we only have about 4% that are correct which is

similar to other cities. Kaser would prefer any comments received be able to be reviewed by the Commission, he is concerned about staff taking all the heat.

**MOTION:** Dayton moved to carry this item forward to future meeting after the completion of the public comment period when all information is available to review. Motion was seconded by Seward and carried unanimously.

**Draft Five Year Capital Improvement Plan Updates:** Messenger informed that staff is in the process of updating the City's Five Year Capital Improvement Plan. Messenger went over the list of projects proposed for each fund. Kaser inquired about the portion of Stewart Parkway from Harvey to Harvard. Messenger stated that there was design but no monies available to construct the project. Dolgonas mentioned that when that project gets constructed possibly staff could look into Blue Zones. Seward asked if there was plan to address the intersection at Valley View and Stewart Parkway. Messenger replied that it was in the TSP.

**Gas Tax Survey – Verbal:** Messenger informed the City hired a company to do survey regarding adding a gas tax. The information obtained will be going to City Council but what was determined was there is a lot of work that needs to be done prior to putting the item on the ballot. Both Messenger and Colley stated that there was a lot of support for the City in general just not for the gas tax itself. A lot of people didn't think the streets are in that bad of shape and we don't need more money to maintain the roads.

**AUDIENCE PARTICIPATION:** Dick Dolgonas, citizen, is concerned about the money that the City is spending on upgrading areas that are annexed into the City, wondered how well the County is following City standards in the Urban Growth Boundary area.

**INFORMATIONAL ITEMS:**

**Project Closeout Information:** Messenger informed that Groshong had requested this information so it was included in the packet. Dayton said it was interesting information and worthwhile to the commission.

**BUSINESS FROM THE COMMISSION:** Kaser informed there will be a new commission member at the next commission meeting, his name is Ken Hoffine

**NEXT MEETING DATE: March 8, 2018**

**ADJOURNMENT:** Meeting adjourned at 4:30 p.m.

*Chanelle Rogers*

Chanelle Rogers, Public Works Department Technician

**CITY OF ROSEBURG  
MEMORANDUM**



**DATE:** March 8, 2018  
**TO:** Public Works Commission  
**FROM:** Jim Maciariello, P.E.  
**VIA:** Nikki Messenger, P.E., Public Works Director  
**SUBJECT: Phase 2 - Water System SCADA Improvements  
Project 18WA09, Construction Bids**

**ISSUE STATEMENT AND SUMMARY**

The City received bids for Phase 2 - Water System SCADA Improvements. The issue for the Commission is whether to recommend to the City Council the award of the construction contract.

**BACKGROUND/ANALYSIS**

In 2014, the City went through a qualifications based selection process and selected RH2 Engineering, Inc. to evaluate the existing SCADA system and provide a short-term and long-term strategy for upgrading and maintaining the City's system. The "City of Roseburg Telemetry Study" was completed in February of 2015 and includes a recommendation for a series of improvements that will allow the City to implement the entire conversion process in phases.

Phase 1 of the Water System SCADA Improvements was implemented in 2017. It included engineering, SCADA communication design, a City-wide radio survey, SCADA software purchase, SCADA master controller design, and construction of a new radio communication system between Reservoirs 5, 6, & 7 and the water treatment plant.

The design of the Phase 2 improvements was authorized by Council and began in August 2017. This phase includes the control system installation and integration at seventeen water system facilities. They include pump stations, reservoirs, and control valves. Phase 3 (FY 2018-19) will include the control system integration at the water treatment plant facility and is projected to be completed in FY 18-19.

The project was bid with separate schedules to provide flexibility in the award if the bids exceeded the budget available. Schedule A includes the fabrication and installation of water system telemetry panels, the installation of radio system equipment, and radio antenna masts at sixteen water system facilities. Schedule B includes the fabrication and installation of a telemetry panel, radio system equipment, and antenna mast at the Military Pump Station facility and Schedule C includes installation of pressure level transmitters to monitor reservoir levels at 7 reservoir facilities.

The project was advertised in January and bids were opened on February 21<sup>st</sup>. Four bids were received and are summarized below.

#	Bidder	Base Bid Schedule "A"	Deductive Schedule "B"	Deductive Schedule "C"	Total Bid All Schedules
1	Northeast Electric, LLC	\$ 525,400.00	\$ 42,500.00	\$ 28,500.00	\$ 596,400.00
2	Pacific Electrical Contractors Inc.	\$ 582,399.46	\$ 42,500.00	\$ 30,000.00	\$ 654,899.46
3	Taurus Power and Controls Inc.	\$ 598,943.71	\$ 40,552.55	\$ 52,272.58	\$ 691,768.84
4	Technical Systems Inc.	\$ 747,110.00	\$ 33,489.00	\$ 31,313.00	\$ 811,912.00
	<i>Engineer's Estimate</i>	<i>\$ 707,400</i>	<i>\$ 51,400</i>	<i>\$ 46,100</i>	<i>\$ 804,900</i>

**FINANCIAL AND/OR RESOURCE CONSIDERATIONS**

The FY 2017-18 Water Fund budget includes \$1,000,000 for Phase 2 of this project. The total project costs for the current fiscal year are estimated below:

Task Orders 5 and 6	\$ 79,752
Construction	\$ 596,400
Task Order 7	\$ 171,171
Contingency (10%)	\$ 59,640
<b>Total</b>	<b>\$ 906,963</b>

Task Order 5 includes Phase 2 engineering design and services during bidding.

Task Oder 6 includes Phase 2 SCADA system software purchase.

Task Order 7 will include Phase 2 Project Management Services, PLC & HMI Software Development, Startup, and Testing, FCC 450 MHz Frequency Licensing, & Services during Construction.

**TIMING ISSUES**

The Commission's recommendation will be presented to City Council at the March 12<sup>th</sup> meeting. If awarded, the Notice to Proceed would be issued in April after execution of the construction contract. The contractor is allowed 180 calendar days to complete the project.

**COMMISSION OPTIONS**

The Public Works Commission can provide its recommendation to the City Council to:

- a. Award the contract to the lowest responsible bidder, Northeast Electrical, LLC. For \$596,400; or

- b. Request additional information; or
- c. Recommend that Council reject all bids.

**STAFF RECOMMENDATION**

The lowest bidder submitted all required documentation and is considered responsive. Money has been budgeted and is available to construct the project. RH2 Engineering, Inc. has reviewed the bids and recommends award to the lowest bidder, Northeast Electrical, LLC. Staff concurs with this recommendation.

**SUGGESTED MOTION**

*I move to recommend the City Council award the Phase 2 - Water System SCADA Improvements to the lowest responsible bidder, Northeast Electric, LLC, for \$596,400.*

**ATTACHMENTS**

Engineer's letter of recommendation



RH2 ENGINEERING, INC.  
www.rh2.com  
mailbox@rh2.com  
1.800.720.8052

WASHINGTON LOCATIONS

BOTHELL  
MAIN OFFICE  
22722 29<sup>th</sup> Drive SE, Suite 210  
Bothell, WA 98021

BELLINGHAM

EAST WENATCHEE

ISSAQUAH

RICHLAND

TACOMA

OREGON LOCATIONS

PORTLAND  
MAIN OFFICE  
6500 SW Macadam Ave. Suite 125  
Portland, OR 97239

MEDFORD

February 22, 2018

Mr. Daryn Anderson, P.E.  
Civil Engineer/Project Manager  
City of Roseburg  
900 SE Douglas Avenue  
Roseburg, OR 97470

*Sent via: Email*

**Subject: Recommendation of Bid Award**  
**Phase 2 – Water System SCADA Improvements**

Dear Mr. Anderson:

The bids for the Phase 2 – Water System SCADA Improvements project were opened at the City of Roseburg City Hall on February 21, 2018, at 2:00 p.m. Of the four (4) bids received, Northeast Electric, LLC submitted the lowest bid.

The total bid amounts for all three schedules which include the Schedule A Base Bid, Deductive Bid Schedule B, and Deductive Bid Schedule C are as follows and a complete bid tabulation is enclosed for your records.

Northeast Electric, LLC	\$596,400.00
Pacific Electrical Contractors, Inc.	\$654,889.46
Taurus Power and Controls, Inc.	\$691,768.84
Technical Systems, Inc.	\$811,912.00
<b>Engineer's Estimate</b>	<b>\$809,100.00</b>

Of the four (4) bids received, one error was identified on the bid form submitted by Taurus Power and Controls, Inc. Taurus' Schedule A Base Bid Total was written in as \$598,943.72 while the actual tabulated amount was \$598,943.71. This also affected Taurus' Total Amount Bid which was written in as \$691,768.85 while the actual tabulated amount was \$691,768.84. This minor mathematical error did not have an impact on the bid results.

RH2 Engineering, Inc., (RH2) has reviewed the bid proposal from Northeast Electric and confirmed that the documentation submitted by Northeast Electric is responsive and in accordance with the bid specifications. RH2 contacted Northeast Electric and confirmed that the Control System Integrator they have elected to use for fabricating the control panels is Quality Controls, Inc. (QCC), who is listed as a prequalified Control System Integrator in the specifications. RH2 has worked with Northeast Electric on approximately five (5) projects and has worked with QCC on twenty (20) plus projects over the last fifteen years.



Mr. Daryn Anderson  
February 22, 2018  
Page 2

RH2 has had positive experiences working with both Northeast Electric and QCC on past projects. Based on this review, RH2 recommends that Northeast Electric, LLC be awarded the contract for this project.

If you have any questions regarding this recommendation, please feel free to contact me at (425) 951-5358 or croberts@rh2.com.

Sincerely,

**RH2 ENGINEERING, INC.**

A handwritten signature in black ink, consisting of a stylized 'C' followed by 'S' and 'R'.

Chris Roberts, PE  
Project Manager

CR

Enclosures: Bid Tabulation

**CITY OF ROSEBURG  
MEMORANDUM**



**DATE:** March 8, 2018  
**TO:** Public Works Commission  
**FROM:** Jim Maciariello, P.E.  
**VIA:** Nikki Messenger, P.E., Public Works Director  
**SUBJECT: Water Treatment Plant – Variable Frequency Drives (VFD) Retrofit  
Project No.18WA13, Construction Bids**

**ISSUE STATEMENT AND SUMMARY**

The City will be receiving construction bids for the Water Treatment Plant VFD Retrofit project. The issue for the Commission is whether to forward a recommendation to the City Council to award the construction contract.

**BACKGROUND/ANALYSIS**

The project consists of the retrofit of two 300 horsepower variable frequency drives (VFDs) in the City's Water Treatment Plant discharge pump station and the retrofit of one 75 horsepower, one 100 horsepower VFD and the replacement of one 75 horsepower VFD in the intake pump station. The current process to control the flow of water from the pump stations to the City's distribution network is by opening and closing inline valves on the discharge piping. This is an inefficient method to control the flow of water. The pump motors operate at full speed without the ability to control the amount of water being pumped. The VFD's will allow the motor speed to be varied which will provide flexibility in the amount of water pumped.

The project was advertised on February 7<sup>th</sup> and bids will be received on March 7<sup>th</sup>. Staff will analyze the bids and present the results at the Commission meeting.

**FINANCIAL CONSIDERATIONS**

The FY 2017-18 Water budget includes \$100,000 for this project. An engineering contract has been executed with Systems West Engineers in the amount of \$18,760 for the design, bidding and construction administration of the project.

Staff applied for and received an incentive offer from Energy Trust of Oregon in the amount of \$31,748 for one 300 horsepower VFD for the discharge pump station and two 75 horsepower VFDs in the intake pump station, which covers roughly half the cost of three VFDs.

**TIMING ISSUES**

The Commission's recommendation will be presented to City Council at the March 26<sup>th</sup> meeting. If awarded, the Notice to Proceed would be given immediately after execution of the construction contract. The contractor is allowed 120 calendar days after Notice to Proceed to complete the project.

**COMMISSION OPTIONS**

Commission options will be presented at the Commission meeting.

**STAFF RECOMMENDATION**

A staff recommendation will be made at the Commission meeting.

**SUGGESTED MOTION**

A suggested motion will be provided at the Commission meeting.

**ATTACHMENTS**

None

**CITY OF ROSEBURG  
MEMORANDUM**



**DATE:** March 8, 2018

**TO:** Public Works Commission

**FROM:** Nikki Messenger, P.E., Public Works Director

**SUBJECT:** Intergovernmental Agreement with ODOT for ARTS Project

**ISSUE STATEMENT AND SUMMARY**

The City has received a grant to construct traffic safety improvements. The issue for the Commission is whether to forward a recommendation to the City Council to authorize the City Manager to execute an Intergovernmental Agreement (IGA) to proceed with these projects.

**BACKGROUND/ANALYSIS**

ODOT has implemented the "All Roads Transportation Safety" (ARTS) program. The intent of the program is to identify and fund projects that will reduce Fatal and Injury A crashes. The ARTS program has two types of projects – systemic and hotspot. In 2015, the City worked with a consultant to identify projects that were eligible for one or both of these categories. Two separate ARTS project applications were submitted in April of 2015.

The elements included in both applications have been rolled into one project. The crash reduction elements included in the project are as follows:

- a. A pedestrian activated warning system and raised median refuge on Stephens Street at Roseland Avenue,
- b. Pedestrian countdown signal heads on Stephens Street at Edenbower Blvd., Newton Creek Road and Stewart Parkway,
- c. Pedestrian countdown signal heads on Harvard Avenue at Stewart Parkway, Keady Court, Centennial Drive and Umpqua Street,
- d. Reflectorized signal backplates on all approaches on Stewart Parkway at Walmart entrance, Renann Avenue, Mercy Drive, Aviation Drive and Airport Road,
- e. Convert the Stewart Parkway approach from protected/permitted doghouse signal heads to flashing yellow arrow heads at Mercy Drive, Renann Avenue and Airport Road and to protected-only heads at Walmart entrance and Aviation Drive.

**FINANCIAL AND/OR RESOURCE CONSIDERATIONS**

The current budget level estimate for the project is \$550,000. The ARTS funding will cover \$462,946 of the total project costs.

**TIMING ISSUES**

Staff would like to negotiated and execute the IGA as quickly as practical. Design work is tentatively scheduled to begin in the fall.

### **COMMISSION OPTIONS**

The Commission has the following options:

1. Recommend that the City Council authorize the City Manager to negotiate and execute an Intergovernmental Agreement with ODOT for the ARTS Project; or
2. Request additional information; or
3. Recommend not proceeding with the safety project.

### **STAFF RECOMMENDATION**

Staff recommends entering into an IGA with ODOT and proceeding with the project.

### **SUGGESTED MOTION**

***I move to recommend that the City Council authorize the City Manager to negotiate and enter into an Intergovernmental Agreement with ODOT for the ARTS Project.***

### **ATTACHMENTS**

None

**CITY OF ROSEBURG  
MEMORANDUM**



**DATE:** March 8, 2018

**TO:** Public Works Commission

**FROM:** Jim Maciariello, P.E.

**VIA:** Nikki Messenger, P.E., Public Works Director

**SUBJECT: Draft American with Disabilities (ADA) Transition Plan – Public Right-of-Way Facilities**

**ISSUE STATEMENT AND SUMMARY**

Staff has been working with a consultant to develop an ADA Transition Plan for public right-of-way facilities. The draft plan has been attached for your review and comment.

**BACKGROUND/ANALYSIS**

On September 26, 2016 the City Council awarded an engineering contract to Century West Engineers for the development of an ADA Transition Plan for Public Right-of-Way Facilities. The consultant has produced a draft Transition Plan which includes curb ramps, pedestrian signals and bus stops. The ADA Transition Plan is a federally required document that prioritizes and guides local efforts to complete accessibility upgrades and charts a course for the City to achieve compliance with current ADA standards.

The consultant assessed 1,626 sidewalk access ramps, sixteen transit stops and 115 pedestrian push buttons as part of the plan. A small percentage of the facilities assessed were fully compliant with current ADA standards. As such, the plan attempts to prioritize and phase required improvements to match available resources for making improvements.

The City already incorporates ramp and signal upgrades into existing pavement management and other improvement projects as required. Replacement of many of the substandard ramps will be accomplished in conjunction with a pavement management project.

The draft plan and appendices can was included in your last agenda packet and can be downloaded at the following web addresses. Please note that Appendix H is very large, approximately 1400 pages.

[http://www.cityofroseburg.org/files/6915/2001/0326/DRAFT-Roseburg\\_ADA\\_Transition\\_Plan\\_-\\_03-02-2018.pdf](http://www.cityofroseburg.org/files/6915/2001/0326/DRAFT-Roseburg_ADA_Transition_Plan_-_03-02-2018.pdf)

[http://www.cityofroseburg.org/files/8515/2000/9958/DRAFT-Roseburg\\_ADA\\_Transition\\_Plan\\_-\\_Appendix\\_H\\_Part\\_1.pdf](http://www.cityofroseburg.org/files/8515/2000/9958/DRAFT-Roseburg_ADA_Transition_Plan_-_Appendix_H_Part_1.pdf)

[http://www.cityofroseburg.org/files/2215/2001/0136/DRAFT-Roseburg\\_ADA\\_Transition\\_Plan\\_-\\_Appendix\\_H\\_Part\\_2.pdf](http://www.cityofroseburg.org/files/2215/2001/0136/DRAFT-Roseburg_ADA_Transition_Plan_-_Appendix_H_Part_2.pdf)

**CITY OF ROSEBURG  
MEMORANDUM**



**DATE:** March 8, 2018

**TO:** Public Works Commission

**FROM:** Nikki Messenger, P.E., Public Works Director

**SUBJECT:** Draft Five Year Capital Improvement Plan Updates

**ISSUE STATEMENT AND SUMMARY**

Staff is in the process of drafting an update to the City's Five Year Capital Improvement Plan (CIP). Staff is seeking input from the Commission regarding the updated plan.

**BACKGROUND/ANALYSIS**

The CIP is separated into several different funds including Parks, IT/General Fund, Bike Trail, Equipment Replacement, Storm Drainage, Streetlight/Sidewalk, Transportation, Urban Renewal, Facilities, Airport, and Water. The Public Works Commission is responsible for advising on the Transportation, Sidewalk/Streetlight, Storm Drainage, Urban Renewal Capital Projects Fund, and the Water Fund.

In preparing an update to the plan, staff reviews the existing master plans and various other studies previously prepared to better define future projects. "Other" plans include documents such as drainage studies, traffic corridor studies, the Waterfront Plan, and others. At this particular time, there are several moving pieces that may impact the CIP in the mid to near future. The City is currently in the process to update the Transportation System Plan, which will help identify deficiencies and prioritize short and long term projects. The City Council is considering formation of a new Urban Renewal District boundary, which would create a funding stream for projects in that area. Council has also been considering placing a measure on the ballot to create a gas tax to help fund pavement preservation and safety improvements. Lastly, the draft ADA Transition Plan identifies deficiencies within the City's rights-of-way that will need to be addressed.

Attached to this memorandum are the proposed project sheets for inclusion in the updated CIP. Each section includes an overview of all of the projects and the related annual financial impacts and assumptions used for forecasting.

**FINANCIAL AND/OR RESOURCE CONSIDERATIONS**

The following spreadsheet identifies the projected spending by fund. Staff has not yet completed the Equipment Replacement or Facilities Fund components of the plan.

Fund	Five Year Total	2018-19	2019-20	2020-21	2021-22	2022-23
Bike Trail	\$800,000	\$160,000	\$160,000	\$160,000	\$160,000	\$160,000
Sidewalk/Streetlight/Traffic Signals	\$1,600,000	\$310,000	\$310,000	\$335,000	\$385,000	\$260,000
Transportation	\$4,799,520	\$475,000	\$525,000	\$1,235,000	\$1,947,520	\$617,000
Park Improvement/Stewart Trust	\$1,040,000	\$400,000	\$165,000	\$175,000	\$150,000	\$150,000
Equipment Replacement	\$0	\$0	\$0	\$0	\$0	\$0
Urban Renewal	\$4,325,000	\$4,325,000				
Facilities	\$0	\$0	\$0	\$0	\$0	\$0
Airport	\$2,383,667	\$200,000	\$766,667	\$20,000	\$85,000	\$1,312,000
Water	\$13,690,500	2,460,000	4,335,000	2,861,500	1,867,000	2,167,000
Storm Drainage	\$7,350,000	\$1,210,000	\$1,290,000	\$1,200,000	\$1,475,000	\$2,175,000
<b>Total All Funds</b>	<b>\$35,988,687</b>	<b>\$9,540,000</b>	<b>\$7,551,667</b>	<b>\$5,986,500</b>	<b>\$6,069,520</b>	<b>\$6,841,000</b>

## TIMING ISSUES

It is Staff's intent to present the draft plan to the Parks Commission on March 7<sup>th</sup>, Planning Commission on March 19<sup>th</sup> and City Council on March 26<sup>th</sup>.

## COMMISSION OPTIONS

The Commission has the following options:

1. Recommend that the City Council adopt the Sidewalk/Streetlight/Signal, Transportation, Urban Renewal, Water and Storm Drainage components of the City's Five Year Capital Improvement Plan; or
2. Recommend changes within the funds that the Commission oversees; or
3. Request additional information, which may delay the schedule.

## STAFF RECOMMENDATION

The CIP is meant to be a living document that can be updated as needed. That flexibility provides staff the opportunity to react to issues with utilities if necessary, while still providing a road map for future improvements. Staff recommends that the Commission forward a recommendation to the City Council to adopt the CIP.

## RECOMMENDED MOTION

***I move to recommend to City Council the adoption of the Sidewalk/Streetlight/Signal, Transportation, Urban Renewal, Water, and Storm Drainage components of the 2018-23 Capital Improvement Plan.***

## ATTACHMENTS

Chapters from Draft 2018-23 Capital Improvement Plan

- Sidewalk/Streetlight/Traffic Signal
- Transportation
- Urban Renewal
- Water
- Storm Drainage

# SIDEWALK/STREETLIGHT/SIGNAL PROJECTS



Revenue for this fund is provided via a transfer from the Hotel/Motel Tax Fund, set by ordinance at 32.89 percent of revenue collected from the hotel/motel occupancy tax. The fund is utilized for construction of new sidewalks, reconstruction of inadequate sidewalk facilities, construction of new streetlights and construction or improvements to traffic signals.

Many of the sidewalk projects are recommended in the City's Bicycle and Pedestrian Plan. Sidewalk and streetlight projects are often constructed in conjunction with other street improvement projects. ADA upgrades will be a one of the primary focuses during this five year planning period.

<b>290 SIDEWALK/STREETLIGHT/SIGNAL</b>						
<b>Project Description</b>	<b>Estimated Cost</b>	<b>2018-2019</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-2023</b>
ADA Upgrades	950,000	200,000	200,000	150,000	200,000	200,000
Douglas Avenue TE Improvements Match (T)	125,000				125,000	
Rifle Range LID (T)	100,000			100,000		
Streetlighting in annexed areas	100,000	25,000	50,000	25,000		
Wayfinding project	25,000	25,000				
Sidewalk New Construction	50,000	10,000	10,000	10,000	10,000	10,000
Sidewalk Reconstruction	200,000	40,000	40,000	40,000	40,000	40,000
Traffic Signal Upgrades - Misc	50,000	10,000	10,000	10,000	10,000	10,000
<b>SIDEWALK/STREETLIGHT TOTAL</b>	<b>\$1,600,000</b>	<b>\$310,000</b>	<b>\$310,000</b>	<b>\$335,000</b>	<b>\$385,000</b>	<b>\$260,000</b>

(T) – Project description included in Transportation Section  
(UR) – Project Description included in Urban Renewal Section

## Fund 290

### STREETLIGHT/SIDEWALK FUND FINANCIALS

<b>Sidewalk</b>	18-19	19-20	20-21	21-22	22-23
Beg. Fund Balance	239,637	230,324	226,519	203,262	135,584
Revenue	381,000	390,525	400,288	410,295	420,553
M&S	80,313	84,329	88,546	92,973	97,622
Capital	310,000	310,000	335,000	385,000	260,000
Ending Fund Balance	230,324	226,519	203,262	135,584	198,516

#### Assumptions:

- Revenues increase 2.5% annually
- Materials & Services (M&S) increase 5% annually

SIDEWALK/STREETLIGHT/SIGNAL PROJECTS

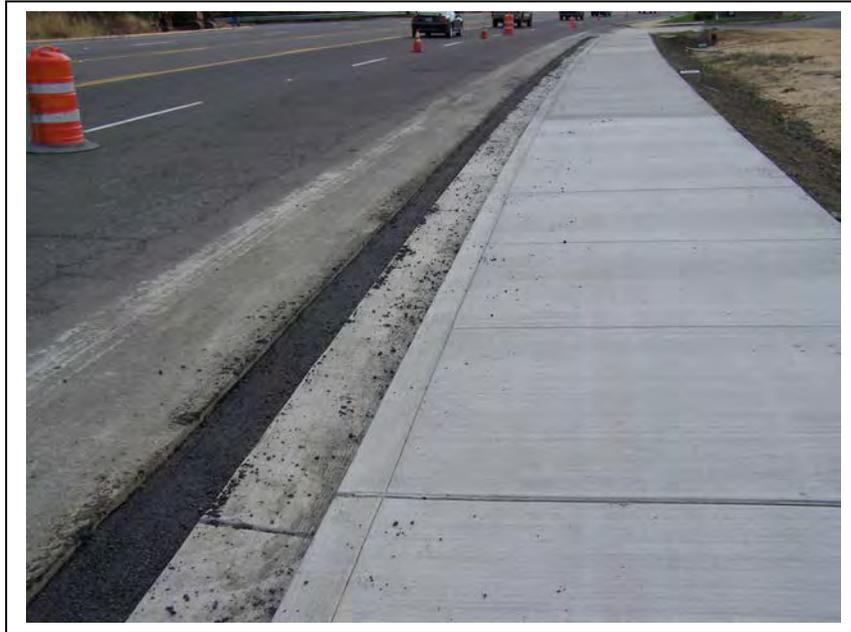
Diagram illustrating a street intersection layout for recording sidewalk/streetlight/signal projects. The diagram shows a grid of streets with dimensions in feet (FT). A north arrow is present. A 'Curb Ramp ID' diagram is shown, indicating a ramp NE-S on the northeast corner of the intersection with the observer standing on the ramp looking south. The diagram includes a 'STREET NAME' label and a 'NORTH' indicator. Below the diagram are fields for 'SRVP #', 'LOCATION:', and 'CORNER:'. At the bottom, there are lines for 'Inspector Signature:', 'Date:', and 'Print Name:'.

ADA Upgrades

In spring 2018, the City will finalize its ADA Transition Plan outlining how and when substandard ADA sidewalk access ramps and other features will be replaced. The funding identified below will contribute to making these improvements. Many of these improvements may be made as part of larger projects or as part of pavement rehabilitation projects.

	Total	2018/19	2019/20	2020/21	2021/22	2022/23
<b>Capital Costs</b>	<b>950,000</b>	200,000	200,000	150,000	200,000	200,000
<b>Funding Source</b>						
Sidewalk/Streetlight	<b>950,000</b>	200,000	200,000	150,000	200,000	200,000

SIDEWALK/STREETLIGHT/SIGNAL PROJECTS



Streetlighting in Annexed Areas

Money is budgeted annually in this line item to provide funding for small sidewalk projects to fill in gaps where needed.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>100,000</b>	25,000	50,000	25,000		
<b>Funding Source</b>						
Sidewalk/Streetlight	<b>100,000</b>	25,000	50,000	25,000		

SIDEWALK/STREETLIGHT/SIGNAL PROJECTS



Wayfinding Project

Money has been budgeted to design and implement a wayfinding project to enable visitors to identify their location and destinations in and around the Heart of Roseburg.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>25,000</b>	25,000				
<b>Funding Source</b>						
Sidewalk/Streetlight	<b>25,000</b>	25,000				

SIDEWALK/STREETLIGHT/SIGNAL PROJECTS



Sidewalk New Construction

Money is budgeted annually in this line item to provide funding for small sidewalk projects to fill in gaps where needed. In 2019/20 this funding may be dedicated to installing sidewalks at Beulah Park as part of a grant project.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>50,000</b>	10,000	10,000	10,000	10,000	10,000
<b>Funding Source</b>						
Sidewalk/Streetlight	<b>50,000</b>	10,000	10,000	10,000	10,000	10,000

SIDEWALK/STREETLIGHT/SIGNAL PROJECTS



Sidewalk Reconstruction

This annual project is also known as the sidewalk rehabilitation program. The program pays the cost of labor for residential sidewalk reconstruction. The abutting property owner is required to pay for the cost of the materials. Public Works Engineering administers this program, which is typically budgeted at \$40,000 annually.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>200,000</b>	40,000	40,000	40,000	40,000	40,000
<b>Funding Source</b>						
Sidewalk/Streetlight	<b>200,000</b>	40,000	40,000	40,000	40,000	40,000

SIDEWALK/STREETLIGHT/SIGNAL PROJECTS



Traffic Signal Upgrade - Misc

This is annual funding set aside to make small improvements to signalized intersections to improve access, capacity, safety, or energy related issues. Recent projects include updating the traffic signal controllers and pedestrian heads at existing signalized intersections.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>50,000</b>	10,000	10,000	10,000	10,000	10,000
<b>Funding Source</b>						
Sidewalk/Streetlight	<b>50,000</b>	10,000	10,000	10,000	10,000	10,000

# TRANSPORTATION PROJECTS



The Transportation Fund accounts for the financial resources used for infrastructure construction and major improvements other than those related to drainage, parks and proprietary fund assets. Historically, street reconstruction and new street projects have been funded through this fund.

The Public Works Department administers the Transportation Capital Improvement Fund with oversight from the Public Works Commission. Funding mechanisms include state gas tax subventions, system development charges, franchise fees and State Transportation Plan funds.

310 TRANSPORTATION						
Project Description	Estimated Cost	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
ARTS Projects	550,000	250,000	300,000			
Douglas Avenue TE Improvements	250,000				250,000	
HBR Grant Matches	-					
Douglas	830,000			830,000		
Stewart Park Drive	1,342,520				1,342,520	
Parker	362,000					362,000
Rifle Range Street LID	500,000		100,000	400,000		
Signal Interconnect Improvements (UR)	200,000	200,000				
Stewart Park Bridge Approaches	100,000		100,000			
Stewart Parkway - Harvey South Design	500,000				250,000	250,000
Valley View Improvements	100,000				100,000	
GIS/Mapping Improvements	65,000	25,000	25,000	5,000	5,000	5,000
<b>TRANSPORTATION TOTAL</b>	<b>4,799,520</b>	<b>475,000</b>	<b>525,000</b>	<b>1,235,000</b>	<b>1,947,520</b>	<b>617,000</b>

Fund 310

**TRANSPORTATION FUND  
FINANCIALS**

Revenue	18-19	19-20	20-21	21-22	22-23
Franchise	512,171	527,536	543,362	559,663	576,453
STP	200,000	200,000	200,000	200,000	200,000
Gas Tax	1,314,529	1,327,674	1,340,951	1,354,361	1,367,904
<b>HB2017</b>	400,000	600,000	600,000	600,000	600,000
SDCs	100,000	100,000	100,000	100,000	100,000
ARTS/VA	225,000	237,946		700,000	
Interest	12,000	12,000	12,000	12,000	12,000
<b>Total Revenue</b>	<b>2,763,700</b>	<b>3,005,157</b>	<b>2,796,313</b>	<b>3,526,024</b>	<b>2,856,357</b>

Revenue Assumptions:

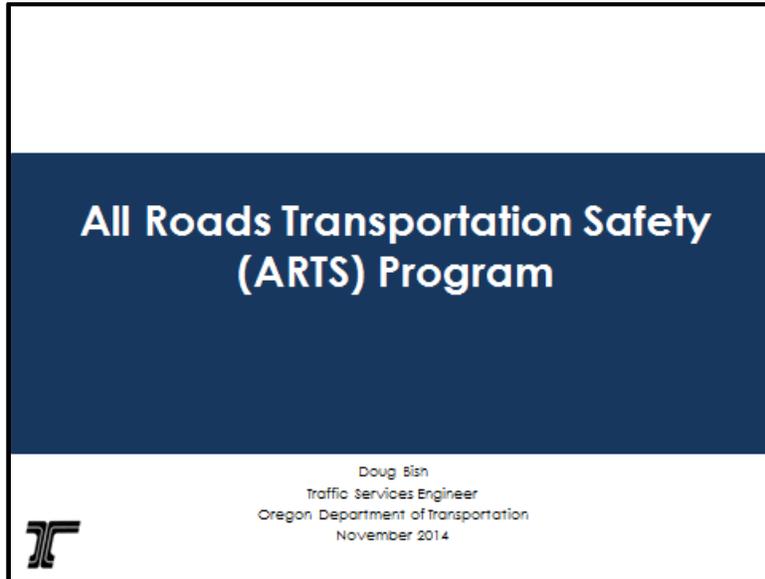
- Franchise Fees increase 3% annually
- Gas Tax revenue increases 1% annually
- Higher TSDC revenues

<b>Transportation</b>	18-19	19-20	20-21	21-22	22-23
Beg. Fund Balance	1,580,642	1,483,692	1,997,762	1,138,702	266,669
Revenue	2,538,700	3,230,157	2,796,313	3,526,024	2,856,357
M&S	943,505	971,810	1,000,964	1,030,993	1,061,923
Pavement Mgt	1,200,000	1,200,000	1,400,000	1,400,000	1,400,000
Capital	475,000	525,000	1,235,000	1,947,520	617,000
Bike Fund Transfer	17,145	19,277	19,410	19,544	19,679
Ending Fund Balance	1,483,692	1,997,762	1,138,702	266,669	24,424

Expenditure Assumptions:

- Materials & Services (M&S) increase 3% annually

TRANSPORTATION PROJECTS



All Roads Transportation Safety (ARTS) Project

The City has applied for and received a grant to make safety improvements in multiple places throughout Roseburg. Improvements include pedestrian crossing improvements on Stephens Street and Harvard, countdown pedestrian heads and other improvements to existing traffic signals on Stewart Parkway.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Cost</b>	550,000	250,000	300,000			
<b>Funding Source</b>						
ARTS funding	<b>462,946</b>	225,000	237,946			
Transportation	<b>87,054</b>	25,000	62,054			

TRANSPORTATION PROJECTS



Douglas Avenue Transportation Enhancement Improvement

The City will be working with ODOT to apply for a Transportation Enhancement project to make improvements to Douglas Avenue from Stephens Street to the City Limits. Improvements west of Deer Creek would include improved ADA access ramps, street lighting, signage and striping to accommodate bicycles. Improvements east of Deer Creek would include widening to include bike lanes, curb, gutter, storm drainage, sidewalks and street lighting. The project may also include improvements to the multi-use path and pedestrian bridge connecting Eastwood Park to Eastwood School and an enhanced crossing treatment where the path meets Douglas Avenue. The project is dependent upon receiving grant funding. The funding shown below is the matching funds.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Cost</b>	375,000				375,000	
<b>Funding Source</b>						
Transportation	<b>250,000</b>				250,000	
Sidewalk/Streetlight	<b>125,000</b>				125,000	

TRANSPORTATION PROJECTS



HBR Grant Matches

The City has applied to ODOT for funding to replace three bridges that are functionally obsolete based on the latest bridge inspection reports. The three bridges are on Douglas Avenue, Stewart Park Drive (Green Bridge) and Parker Street. The costs programmed below are for the match portion required to complete these bridge replacement projects.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Cost</b>						
Douglas	830,000			830,000		
Stewart Park Drive	1,342,520				1,342,520	
Parker	362,000					362,000
<b>Funding Source</b>						
Transportation	<b>2,534,520</b>			830,000	1,342,520	362,000

TRANSPORTATION PROJECTS



Rifle Range Street LID

Staff is considering formation of a Local Improvement District to fund improvements to Rifle Range Street. The project would serve a residential area north of Diamond Lake Boulevard. The overall project would reside in the Assessment Improvement Fund. Funds shown below would be the City’s potential contribution to the overall project.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Cost</b>	850,000		100,000	750,000		
<b>Funding Source</b>						
Transportation	<b>500,000</b>		100,000	400,000		
Sidewalk/Streetlight	<b>100,000</b>			100,000		
Storm Drainage	<b>250,000</b>			250,000		

TRANSPORTATION PROJECTS



Stewart Parkway Bridge Approaches

This project will address the issues with the bridge approaches on either side of the Stewart Parkway Bridge over the South Umpqua River. The intent is to better define the cause of the approach shifts and to identify potential solutions and costs associated with the construction of those solutions.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Cost</b>	100,000		100,000			
<b>Funding Source</b>						
Transportation	<b>100,000</b>		100,000			

TRANSPORTATION PROJECTS



Stewart Parkway – Harvey to Harvard - Design

This project would be the final phase of the multi-phase Stewart Parkway Improvements. The project would connect to planned improvements near the YMCA and complete the section south to Harvard Avenue. The improvements would include a new bridge or bridge widening to accommodate additional travel lanes. Funding shown below would be targeted at alternative analysis and design.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>500,000</b>				250,000	250,000
<b>Funding Source</b>						
Transportation	500,000				250,000	250,000

TRANSPORTATION PROJECTS



Valley View Drive LID

This project would improve Valley View Drive between Keasey Street and Kline Street. This is the only section of Valley View that has not previously been improved. Staff is considering formation of a Local Improvement District to fund this project. The funding outlined below would be the City’s potential contribution to an LID project. The overall project funding would reside in the Assessment Improvement Fund.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Cost</b>	300,000				300,000	
<b>Funding Source</b>						
Transportation	<b>100,000</b>				100,000	
Sidewalk/Streetlight	<b>100,000</b>				100,000	
Storm Drainage	<b>100,000</b>				100,000	

## TRANSPORTATION PROJECTS



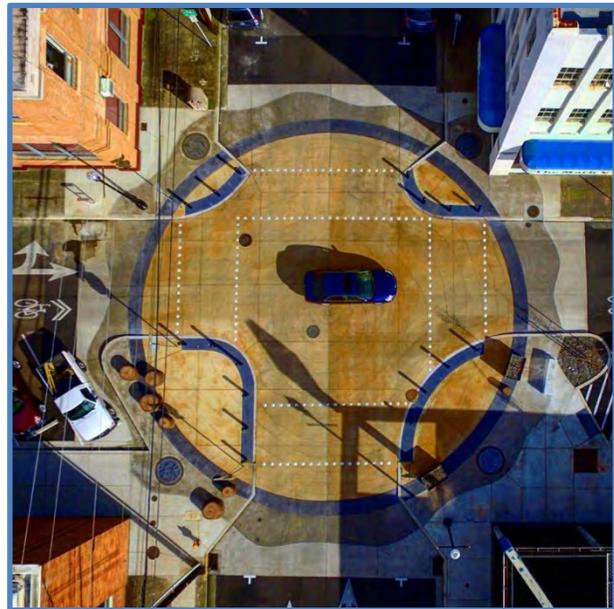
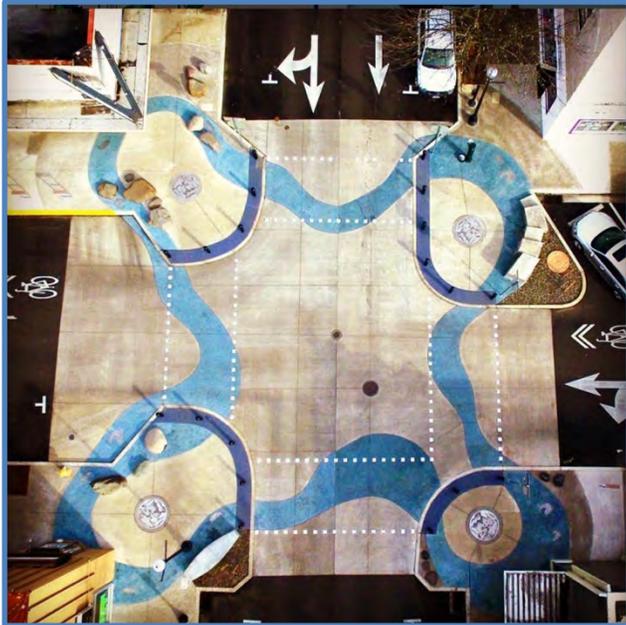
### Mapping Improvements

Money budgeted annually for maintaining the City's GIS system related to transportation. Funds will be used for maintaining/upgrading the computer system, handheld GPS units and related software and technical support. The City is currently working with a consultant to convert our GIS data to a more standardized platform. This work is expected to continue into FY 2018-19.

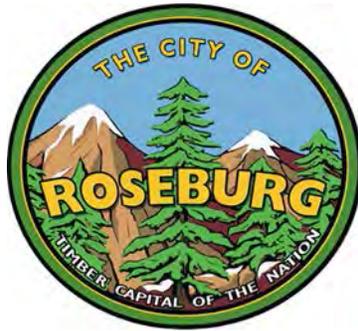
	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>65,000</b>	25,000	25,000	5,000	5,000	5,000
<b>Funding Source</b>						
Transportation	<b>65,000</b>	25,000	25,000	5,000	5,000	5,000

# URBAN RENEWAL PROJECTS

The North Roseburg Urban Renewal Plan was adopted in 1989. The principle source of funding is tax increment revenue. In 2005, the second amendment to the plan was adopted. This amendment adjusted the boundary of the Urban Renewal District to include the downtown core area. Projects included in this CIP reflect those remaining in the original plan as well as those adopted in the second amendment. This Urban Renewal District will expire in September of 2019. Projects have been programmed through fiscal year 2018-19.



350 URBAN RENEWAL						
Project Description	Estimated Cost	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023
Airport Wetland Mitigation	150,000	150,000				
Black Street Extension	575,000	575,000				
Downtown Façade Program (non-capital)	50,000	50,000				
Downtown Improvements Phase 2	1,400,000	1,400,000				
Edenbower/Stewart Parkway Left Turn	1,250,000	1,250,000				
Garden Valley- Fairmount to Stephens	700,000	700,000				
Traffic Signal Coordination/Conduit/Timing	200,000	200,000				
<b>URBAN RENEWAL TOTAL</b>	<b>\$4,325,000</b>	<b>\$4,325,000</b>				



## URBAN RENEWAL PROJECTS

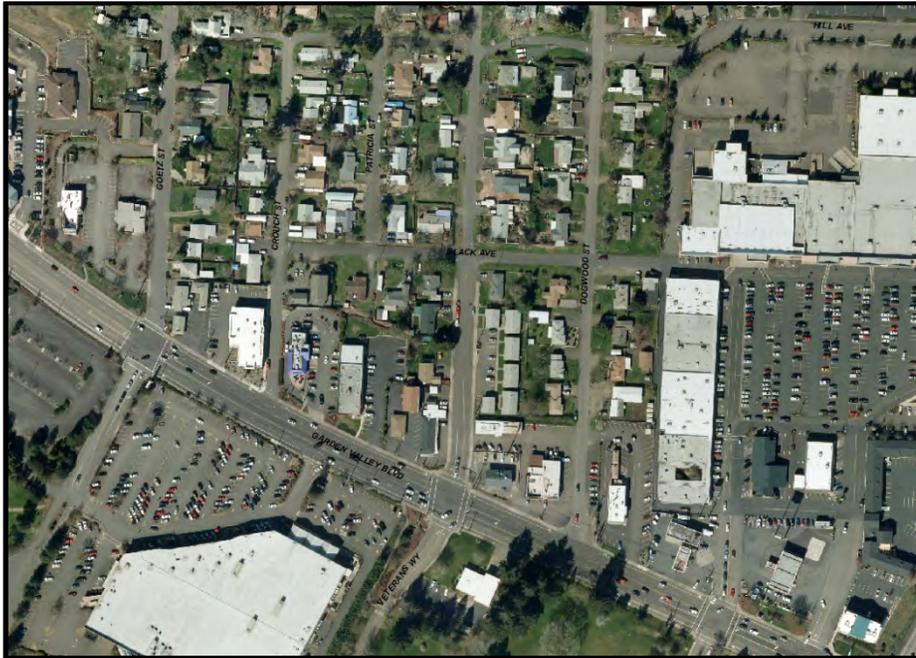


### Airport Wetland Mitigation

This will address existing wetlands located just west of the new north apron area. These wetlands will have to be mitigated in order to fill this area to the elevation of the rest of the airport. Mitigation will most likely involve purchasing credits from a wetland bank.

	<b>Total</b>	<b>2018/19</b>
<b>Capital Costs</b>	<b>150,000</b>	150,000
<b>Funding Source</b>		
Urban Renewal	<b>150,000</b>	150,000

## URBAN RENEWAL PROJECTS



### Black Street Improvements

Black Street is a local street that parallels Garden Valley Boulevard west of Interstate Five. This project will improve the existing section of Black Street from Estelle Street west to the Garden Valley Shopping Center.

	<b>Total</b>	<b>2018/19</b>
<b>Capital Costs</b>	<b>675,000</b>	675,000
<b>Funding Source</b>		
Urban Renewal	<b>500,000</b>	500,000
Storm	<b>100,000</b>	100,000
RUSA	<b>75,000</b>	75,000

URBAN RENEWAL PROJECTS



Downtown Façade Program

This project will extend the existing downtown façade program. The program will provide for a façade improvement matching program for the businesses located within the Downtown Business District. The intent is to provide a mechanism to facilitate rehabilitating the appearance and function of the building facades.

	<b>Total</b>	<b>2018/19</b>
<b>Capital Costs</b>	<b>50,000</b>	50,000
<b>Funding Source</b>		
Urban Renewal	<b>50,000</b>	50,000

## URBAN RENEWAL PROJECTS

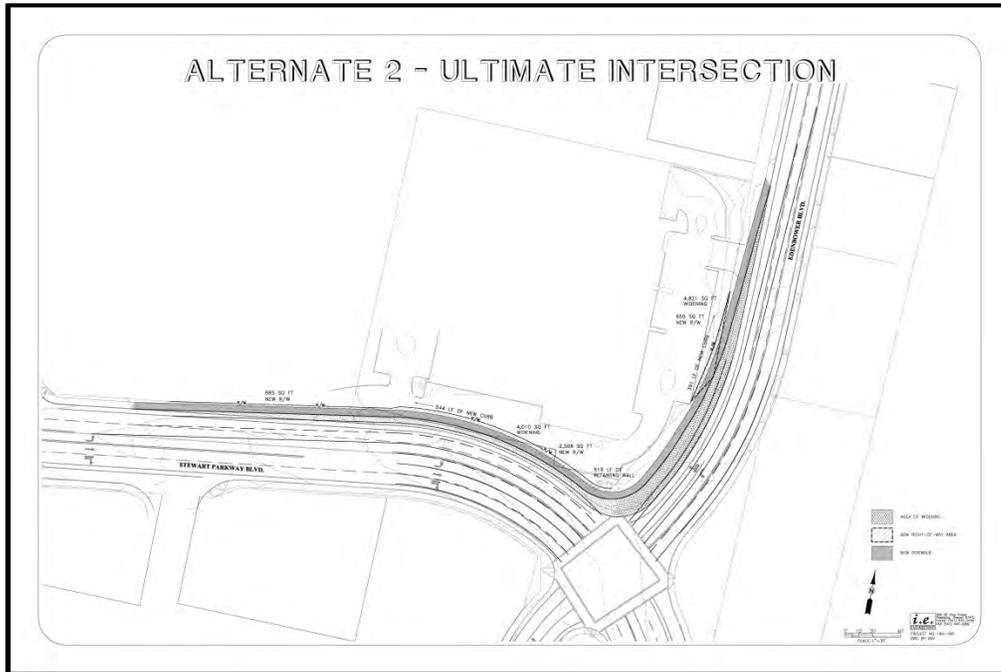
### Downtown Improvements Phase 2

This project will build on those improvements accomplished with the Washington/Oak Project. The project will focus on ADA improvements, making the area more pedestrian friendly and adding amenities that draw customers to the downtown core.



	<b>Total</b>	<b>2018/19</b>
<b>Capital Costs</b>	<b>1,400,000</b>	1,400,000
<b>Funding Source</b>		
Urban Renewal	<b>1,250,000</b>	1,250,000
RUSA	<b>150,000</b>	150,000

URBAN RENEWAL PROJECTS



Edenbower/Stewart Parkway Left Turn Lane

The City has previously studied this intersection to define future needed improvements. That study and the Intersection Area Management Plan (IAMP) for I-5 Exit 127 both indicate that a dual left turn from eastbound Stewart Parkway to northbound Edenbower should be installed.

	<b>Total</b>	<b>2018/19</b>
<b>Capital Costs</b>	<b>1,250,000</b>	1,250,000
<b>Funding Source</b>		
Urban Renewal	<b>1,250,000</b>	1,250,000

## URBAN RENEWAL PROJECTS



### Pavement Management - Overlays

Utilizing Urban Renewal Funding to structurally reconstruct sections of arterials located within the district will help to prolong the life of the arterial street system in a way that cannot currently be accomplished utilizing transportation funding alone. The remaining street that is programmed for funding is Garden Valley between Fairmount and Stephens Street.

	<b>Total</b>	<b>2018/19</b>
<b>Capital Costs</b>		
Garden Valley	700,000	700,000
<b>Funding Source</b>		
Urban Renewal	<b>700,000</b>	700,000

URBAN RENEWAL PROJECTS



Traffic Signal Coordination/Conduit/Timing

These would be separate projects that would work towards coordinating traffic signals on arterials within Roseburg to increase efficiency of the transportation system.

	<b>Total</b>	<b>2018/19</b>
<b>Capital Costs</b>	<b>200,000</b>	200,000
<b>Funding Source</b>		
Urban Renewal	<b>200,000</b>	200,000

Fund 350



# WATER PROJECTS



The Water Service Fund accounts for the operation of the City's domestic drinking water utility. The operations, debt and capital outlay are totally supported by charges for services. The City purchased the utility from Oregon Water Corporation in 1977, and has since been upgrading the system in the course of normal depreciation as well as to correct major existing deficiencies within the system. Once undertaken, these projects are designed to accommodate anticipated growth and changes in design standards.

An updated Water System Master Plan and Capital Improvement Plan was adopted in 2010. A long range Water Supply Plan and Water Treatment Facilities Preliminary Design Report were completed in 2009. Together, these documents outline the high priority projects for the next decade. The short term capital improvement projects from the Master Plan have been included in this document.

<b>530 WATER FUND</b>							
<b>Project Description</b>	<b>Estimated Cost</b>	<b>2018-2019</b>	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>	<b>2022-2023</b>	
Land	25,000	5,000	5,000	5,000	5,000	5,000	
Buildings and Structures	50,000	10,000	10,000	10,000	10,000	10,000	
Equipment	235,000	20,000		130,000	85,000		
Water Vehicles	120,000	40,000	40,000		40,000		
Mapping/Plans	75,000	35,000	10,000	10,000	10,000	10,000	
Main Replacements	2,935,500	255,000	450,000	730,500	750,000	750,000	
New Mains	155,000	115,000	10,000	10,000	10,000	10,000	
Plant Improvements	2,880,000	1,550,000	850,000	191,000	132,000	157,000	
Reservoir Improvements	1,295,000	85,000	335,000	125,000	125,000	625,000	
Transmission Main	5,920,000	345,000	2,625,000	1,650,000	700,000	600,000	
LID	-	-	-	-	-	-	
<b>WATER TOTAL</b>	<b>\$13,690,500</b>	<b>\$2,460,000</b>	<b>\$4,335,000</b>	<b>\$2,861,500</b>	<b>\$1,867,000</b>	<b>\$2,167,000</b>	

## Fund 530

### WATER FUND FINANCIALS

<b>Water</b>	18-19	19-20	20-21	21-22	22-23
Beg Fund	6,552,883	5,930,685	3,597,860	2,632,929	2,632,929
Rev	6,163,318	6,348,218	6,538,664	6,734,824	6,936,869
M&S	4,210,517	4,421,043	4,642,095	4,874,200	5,117,909
Capital	2,575,000	4,260,000	2,861,500	1,867,000	2,167,000
End Bal	5,930,685	3,597,860	2,632,929	2,626,554	2,284,889

#### Assumptions:

- Materials & Services (M&S) increase 5% annually
- Revenues increase between % until FY 2018-19 and 3% after

**WATER PROJECTS**



**Land**

This is money budgeted annually for purchase of easements or small parcels of property needed to facilitate the water system, pump stations, and/or reservoirs.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>25,000</b>	5,000	5,000	5,000	5,000	5,000
<b>Funding Source</b>						
Water Fund	<b>25,000</b>	5,000	5,000	5,000	5,000	5,000

## WATER PROJECTS



### Buildings and Structures

Money budgeted annually for improvements or capital maintenance for the City maintenance facility on Fulton Street. Money is budgeted in Storm Drainage, Facilities and Water Funds for this purpose.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>50,000</b>	10,000	10,000	10,000	10,000	10,000
<b>Funding Source</b>						
Water	<b>50,000</b>	10,000	10,000	10,000	10,000	10,000

**WATER PROJECTS**



**Equipment**

Money budgeted for equipment purchase and/or replacement according to the replacement schedule.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>						
Trailer	20,000	20,000				
Skid Steer	85,000				85,000	
Dump Truck	130,000			130,000		
<b>Funding Source</b>						
Water Fund	<b>235,000</b>	20,000		130,000	85,000	

**WATER PROJECTS**



**Water Vehicles**

Money budgeted to replace Water Division vehicles.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>						
Pick ups	120,000	40,000	40,000		40,000	
<b>Funding Source</b>						
Water Fund	<b>120,000</b>	40,000	40,000		40,000	

WATER PROJECTS



Mapping/Plans

Money budgeted annually for maintaining the City's GIS system related to water transmission and distribution. Funds will be used for maintaining/upgrading the computer system, handheld GPS units, related software and technical support. Money is also budgeted every five years to update the City's aerial photos.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>75,000</b>	35,000	10,000	10,000	10,000	10,000
<b>Funding Source</b>						
Water	<b>75,000</b>	35,000	10,000	10,000	10,000	10,000

**WATER PROJECTS**



**Main Replacement**

This budgeted item is to replace existing transmission and distribution mains annually for the following purposes: increase fire flows, replace aged/leaking pipes or to accommodate street improvements.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>						
Downtown Ph 2	<b>175,000</b>	175,000				
Harvard/Bellows	<b>30,000</b>	30,000				
Vine Street	<b>75,000</b>		75,000			
Washington Bridge Ends	<b>250,000</b>		250,000			
Pioneer Way	<b>325,000</b>			325,000		
Military Ave	<b>355,500</b>			355,500		
Peggy Ave	<b>75,000</b>		75,000			
TBD	<b>1,400,000</b>				700,000	700,000
Miscellaneous	<b>250,000</b>	50,000	50,000	50,000	50,000	50,000
<b>Funding Source</b>						
Water Fund	<b>2,935,500</b>	255,000	450,000	730,500	750,000	750,000

**WATER PROJECTS**



**New Mains**

**Description:**

It is the City’s policy for developers to build new mains to serve new areas and for the City to operate and maintain the system after initial construction. Piping gaps left by private extensions are now a minor problem, and expenditures for this purpose are minimal. The project listed below will complete loops in areas to provide flexibility with the system.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>						
Taft to Danita	90,000	90,000				
Knoll Street	25,000	25,000				
TBD	30,000		10,000	10,000	10,000	10,000
<b>Funding Source</b>						
Water Fund	<b>155,000</b>	115,000	10,000	10,000	10,000	10,000

## WATER PROJECTS



### Plant Improvements

The Water Treatment Facilities Preliminary Design Report lists capital improvement recommendations to be constructed prior to the expansion of the plant. Improvements will include updating the telemetry system that allows the plant operators to control the pump stations and reservoir levels and replacing the existing chlorination system.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>						
Telemetry Upgrades	<b>1,300,000</b>	1,300,000				
Chlorine generation upgrades	<b>1,000,000</b>	200,000	800,000			
Replace Filter Media	<b>141,000</b>			141,000		
Floc Basin	<b>82,000</b>				82,000	
HVAC – high head PS	<b>37,000</b>					37,000
Sedimentation Basin	<b>70,000</b>					70,000
Misc/Pump replacement/upgrades	<b>250,000</b>	50,000	50,000	50,000	50,000	50,000
<b>Funding Source</b>						
Water Fund	<b>2,880,000</b>	1,550,000	850,000	191,000	132,000	157,000

**WATER PROJECTS**



**Reservoir Improvements**

This budget line item includes pump station or reservoir construction, upgrades, replacements, re-coatings, and other capital improvements.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>						
Safety Cage Imp.	30,000	30,000				
Grange Cathodic	30,000	30,000				
Military PS	210,000		210,000			
N.C. Reservoir*	500,000					500,000
Rocky Ridge Floor	100,000		100,000			
Boulders PS	100,000			100,000		
TBD	200,000				100,000	100,000
Misc.	125,000	25,000	25,000	25,000	25,000	25,000
<b>Funding Source</b>						
Water Fund	<b>1,295,000</b>	85,000	335,000	125,000	125,000	625,000

*\*Development Driven*

## WATER PROJECTS

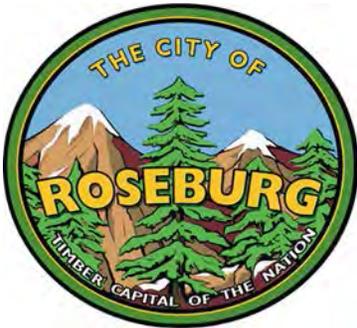


### Transmission Main

This capital item includes transmission main replacements, upgrades and installation of cathodic protection.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>						
Hooker Rd Intertie	<b>195,000</b>	45,000	150,000			
West Ave – Res #7	<b>2,475,000</b>	250,000	2,225,000			
24" Isabell to Newton Creek	<b>1,800,000</b>		200,000	1,600,000		
Misc. Improvements	<b>250,000</b>	50,000	50,000	50,000	50,000	50,000
TBD	<b>1,200,000</b>				650,000	550,000
<b>Funding Source</b>						
Water Fund	<b>5,920,000</b>	345,000	2,625,000	1,650,000	700,000	600,000





# STORM DRAINAGE PROJECTS



This fund was created in 1989-90 to account for the revenues and operations of the City's storm drainage system. The principal source of revenue to this fund is user fees and system development charges. Grant revenues will be applied for when appropriate.

The Fund is managed by the Public Works Department using the City's Storm Drainage Master Plan as a general guideline. General oversight is provided by the Public Works Commission. An update of the Storm Drainage Master Plan was completed in 2011. The projects included in this five year plan are based on the Master Plan. User fees were reviewed in 2013, and a five-year series of fee increases was implemented. System development charges may be reviewed in the near future based on capital improvement needs identified in the Storm Drainage Master Plan.

560 STORM DRAINAGE							
Project Description	Estimated Cost	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	
Ballf Area Storm Drainage Phase 2	600,000		200,000	400,000			
Black Avenue Storm (UR)	100,000	100,000					
Broccoli -Tie In	160,000		160,000				
Calkins Area Phase 2A, 4 - Troost Street	525,000			75,000	450,000		
CIPP	2,500,000	700,000	600,000	400,000	400,000	400,000	400,000
Diamond Lake Blvd/Fulton Street Drainage Improvements	250,000				250,000		
Downtown Improvements Phase 2 (UR)	200,000	200,000					
Lookingglass Area Improvements	900,000				100,000		800,000
Nash/Jackson Area	1,000,000				100,000		900,000
Rainbow Storm Extension	250,000		250,000				
Rifle Range Street LID (T)	250,000			250,000			
Valley View LID (T)	100,000				100,000		
Wetland Mitigation Planting	100,000	100,000					
Buildings and Structures	50,000	10,000	10,000	10,000	10,000	10,000	10,000
Equipment Acquisition	80,000	40,000	10,000	10,000	10,000	10,000	10,000
Improvements - Mapping	35,000	10,000	10,000	5,000	5,000	5,000	5,000
Misc. Storm Improvements	250,000	50,000	50,000	50,000	50,000	50,000	50,000
<b>STORM DRAINAGE TOTAL</b>	<b>\$7,350,000</b>	<b>\$1,210,000</b>	<b>\$1,290,000</b>	<b>\$1,200,000</b>	<b>\$1,475,000</b>	<b>\$2,175,000</b>	

(T) – Project description included in Transportation Section  
 (UR) – Project Description included in Urban Renewal Section

## STORM DRAINAGE FUND FINANCIALS

<b>Storm Drainage</b>	18-19	19-20	20-21	21-22	22-23
Beg. Fund Balance	1,766,053	1,962,523	2,106,087	2,366,803	2,379,693
Revenue	2,161,470	2,226,314	2,293,104	2,361,897	2,432,754
M&S	755,000	792,750	832,388	874,007	917,707
Capital	1,210,000	1,290,000	1,200,000	1,475,000	2,175,000
Ending Fund Balance	1,962,523	2,106,087	2,366,803	2,379,693	1,719,739

Assumptions:

Materials & Services (M&S) increase 5% annually

Revenues increase 3% annually

# STORM DRAINAGE PROJECTS



## Ballf Area Storm Drainage Phase 2

The City completed a study of this area in 2013 to identify alternatives to alleviate drainage issues identified in the Storm Drainage Master Plan. The first phase was constructed in 2014. The next phase will upsize existing storm drainage piping on Ballf Street, Myrtle Avenue and Fairhaven Street as identified in the Ballf Street Storm Sewer Improvements Study.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Cost</b>						
	<b>600,000</b>		200,000	400,000		
<b>Funding Source</b>						
Storm Drainage	<b>600,000</b>		200,000	400,000		

## STORM DRAINAGE PROJECTS



### Broccoli Tie-in

There is an existing storm drainage line that runs overland within the unimproved right-of-way of Broccoli Street. This project will bury, extend and tie that piping in at Lorraine Street.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>160,000</b>		160,000			
<b>Funding Source</b>						
Storm Drainage	<b>160,000</b>		160,000			

# STORM DRAINAGE PROJECTS

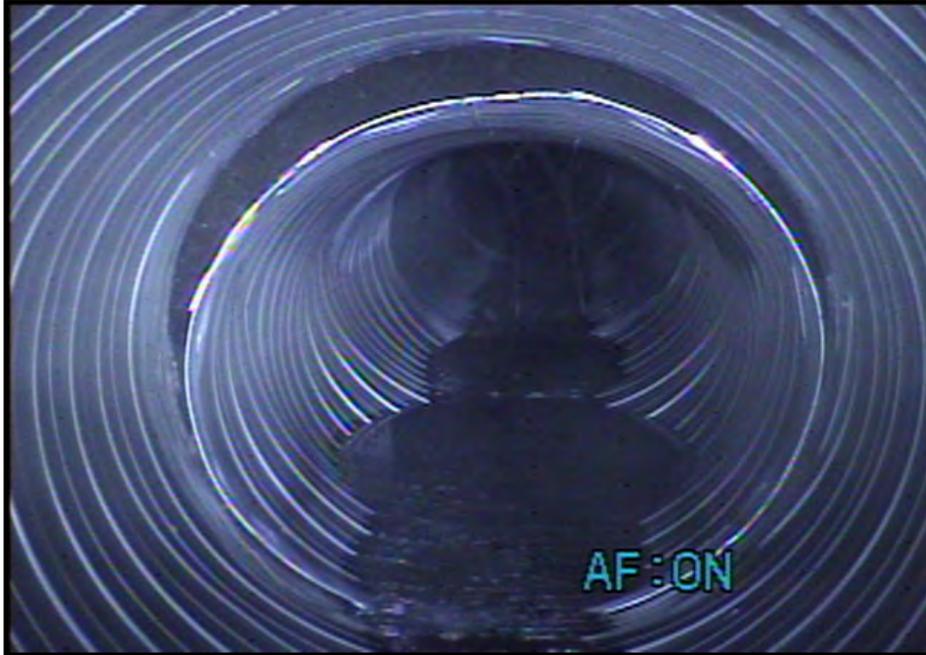


## Calkins Area Drainage Phase 2A, 4

This project was identified in the Calkins Hydraulic Report completed in 2005. This will be the third phase of construction. This phase will include installing a 36-inch pipe on Troost Street, north of Calkins Avenue to Witherpspoon and installing drainage on Calkins Avenue parallel to Troost Street to eliminate drainage through back yards. Previous phases included installing the sections in El Dorado Court, Calkins Avenue, Wannell, and Luth Streets.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Cost</b>	525,000			75,000	450,000	
<b>Funding Source</b>						
Storm Drainage	<b>525,000</b>			75,000	450,000	

## STORM DRAINAGE PROJECTS

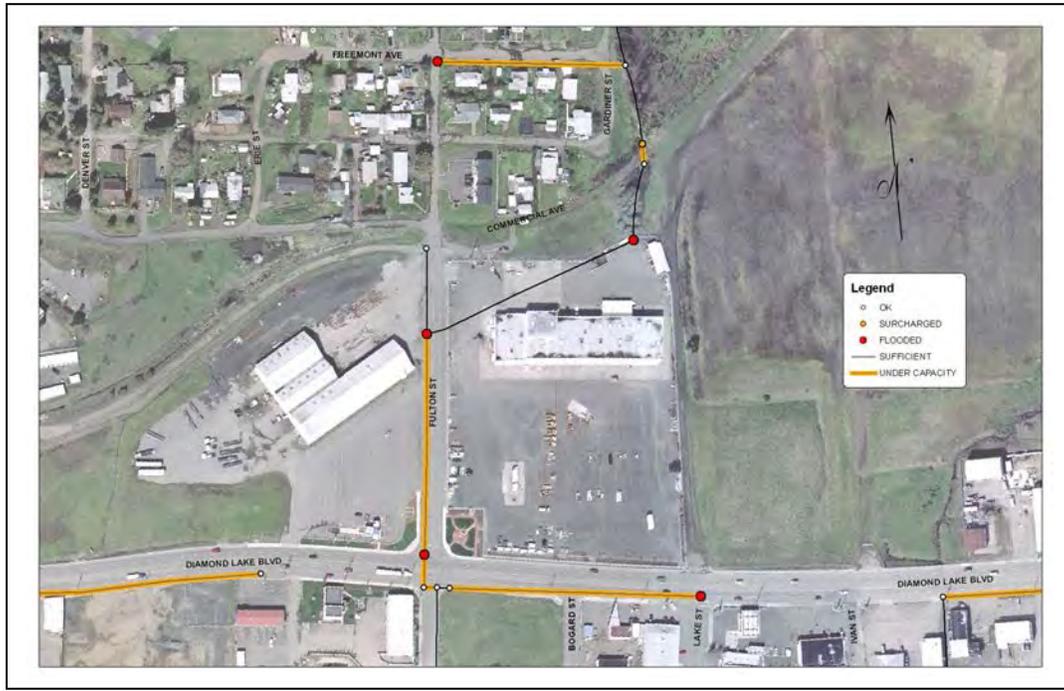


### Cast In Place Pipe (CIPP)

In January 2015, staff discovered that aluminized steel piping installed in the early 1990's through mid-2000's is corroding which is causing the pipe to fail structurally. In certain instances, this failure has caused sink holes to form within paved streets. Staff has identified and prioritized aluminized steel pipes to rehabilitate using the CIPP process in order to prevent further deterioration in these pipes.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>2,500,000</b>	700,000	600,000	400,000	400,000	400,000
<b>Funding Source</b>						
Storm Drainage	<b>2,500,000</b>	700,000	600,000	400,000	400,000	400,000

# STORM DRAINAGE PROJECTS



## Diamond Lake/Fulton Street Drainage Improvements

The existing storm drainage system on Freemont Avenue, Fulton Street and Diamond Lake Boulevard is undersized. This project will include installation of 387 lineal feet of 18 inch pipe, 457 lineal feet of 42 inch pipe, 519 lineal feet of 21 inch pipe, and 42 lineal feet of 42 inch pipe. This project is identified in the Storm Drainage Master Plan as problem area #3. This will be a multi-year project and will most likely be development driven.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>250,000</b>				250,000	
<b>Funding Source</b>						
Storm Drainage	<b>250,000</b>				250,000	

## STORM DRAINAGE PROJECTS

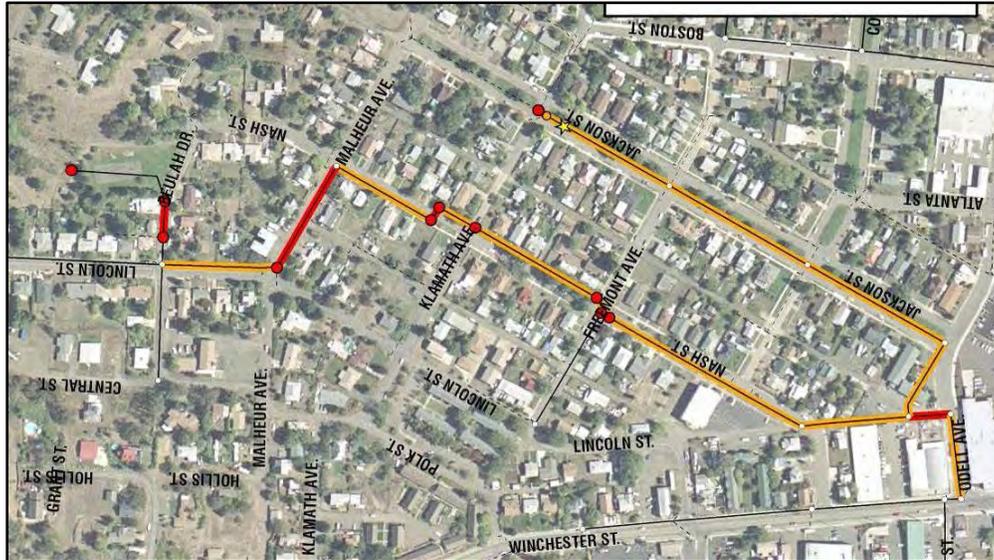


### Lookingglass Area Improvements

The Storm Drainage Master plan identifies two areas of concern near Lookingglass Road, problem areas #14 and 15. This project would involve additional study to refine the improvement plan and then phased construction.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Cost</b>	900,000				100,000	800,000
<b>Funding Source</b>						
Storm Drainage	<b>900,000</b>				100,000	800,000

# STORM DRAINAGE PROJECTS



## Nash/Jackson Area Improvements

This project is identified in the Storm Drainage Master Plan as problem area #7. The project will involve further analysis to refine the required improvements, and then phased construction to address capacity issues within this area. This project will also replace aging pipe within the area.

	Total	2018/19	2019/20	2020/21	2021/22	2022/23
<b>Capital Costs</b>						
Design	100,000				100,000	900,000
Construction	900,000					
<b>Funding Source</b>						
Storm Drainage	<b>1,000,000</b>				100,000	900,000

# STORM DRAINAGE PROJECTS



## Rainbow Storm Extension

This project will extend an existing pipe in Rainbow Street to Harvard. This will abandon a section of existing piping that runs between private properties to the east.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>250,000</b>		250,000			
<b>Funding Source</b>						
Storm Drainage	<b>250,000</b>		250,000			

## STORM DRAINAGE PROJECTS



### Wetland Mitigation Plantings

As part of the South Stewart Parkway Improvements, large storm water detention ponds were constructed in 2017. In order to complete the project and meet the conditions of the wetland permits, these ponds will be planted with various types of plants in the fall of 2018.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Cost</b>						
	<b>100,000</b>	100,000				
<b>Funding Source</b>						
Storm Drainage	<b>100,000</b>	100,000				

## STORM DRAINAGE PROJECTS



### Buildings and Structures

Money budgeted annually for improvements or capital maintenance for the City maintenance facility on Fulton Street. Money is budgeted in Storm Drainage, Facilities and Water Funds for this purpose.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>60,000</b>	10,000	10,000	10,000	10,000	10,000
<b>Funding Source</b>						
Storm Drainage	<b>60,000</b>	10,000	10,000	10,000	10,000	10,000

## STORM DRAINAGE PROJECTS



### Equipment Acquisition

This money is budgeted annually for purchase of equipment necessary to maintain the storm drainage system. Purchases are typically made for equipment required for either the storm drainage vacuum truck or the camera truck used for inspecting the system. When required, replacement of these two pieces of equipment is budgeted in this line item. This line item may also be used for specialized attachments for the backhoe or bobcats when appropriate.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>80,000</b>	40,000	10,000	10,000	10,000	10,000
<b>Funding Source</b>						
Storm Drainage	<b>80,000</b>	40,000	10,000	10,000	10,000	10,000

## STORM DRAINAGE PROJECTS



### Improvements - Mapping

Money budgeted annually for maintaining the City's GIS system related to storm drainage. Funds will be used for maintaining/upgrading the computer system, handheld GPS units and related software and technical support.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>35,000</b>	10,000	10,000	5,000	5,000	5,000
<b>Funding Source</b>						
Storm Drainage	<b>35,000</b>	10,000	10,000	5,000	5,000	5,000

## STORM DRAINAGE PROJECTS



### Miscellaneous Storm Improvements

This is money budgeted annually to address small problems or improvements within the system. The money may not be spent every year.

	<b>Total</b>	<b>2018/19</b>	<b>2019/20</b>	<b>2020/21</b>	<b>2021/22</b>	<b>2022/23</b>
<b>Capital Costs</b>	<b>250,000</b>	50,000	50,000	50,000	50,000	50,000
<b>Funding Source</b>						
Storm Drainage	<b>250,000</b>	50,000	50,000	50,000	50,000	50,000

