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## CAPITAL IMPROVEMENT PROJECT DETAIL SUMMARY SHEETS

This chapter presents the detail summary sheets for the 32 projects developed in Chapter 4 - Existing System and Condition Assessment and Chapter 5 - System Analysis and summarized in Chapter 6 - CIP. The project summary sheet includes capital improvement costs, project location and details, and a project detail map.



**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 1**



**Project ID:** Project 1  
**SW Western Street/SW Spruce**

**Description:** Street  
**Improvements:** P-1A through P-1E

**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Project Vicinity Map**



**Implementation Phase**

Phase 1 (2015-2020)	<u>  X  </u>
Phase 2 (2021-2025)	<u>      </u>
Phase 3 (2026-2035)	<u>      </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 939,100
Construction Contingency	\$ 187,900
<b>Estimated Construction Cost</b>	<b>\$ 1,127,000</b>
Engineering Services, Construction Management and Project Administration	\$ 706,000
<b>Total Capital Improvement Cost</b>	<b>\$ 1,833,000</b>
ENR CCI =	10,037 20-City Average, July 2015

**Project Location**

Along SW Western Ave Between I St and SW Bridge St and along SW Spruce St

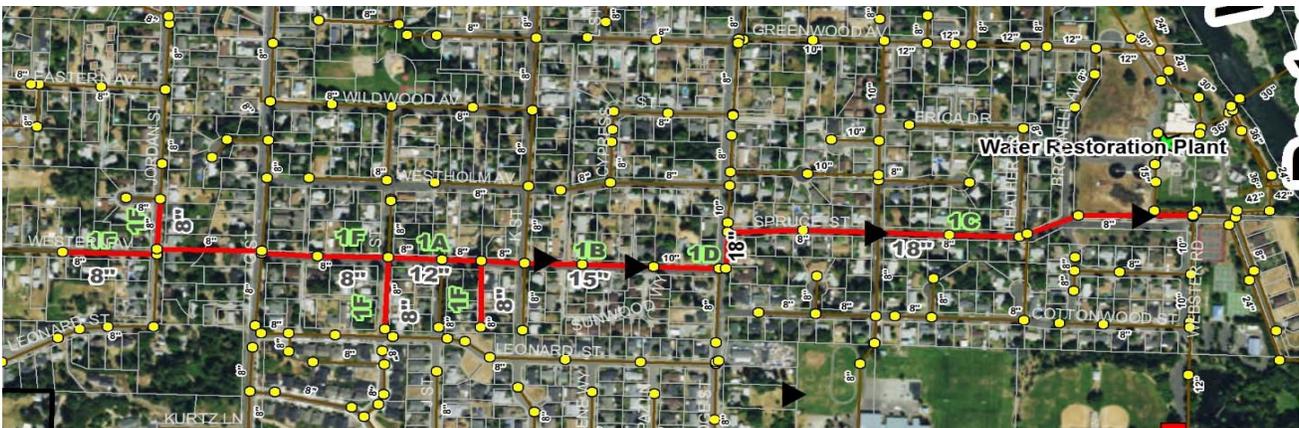
**Project Details**

Replace the existing 8-inch, and 10-inch diameter sewers on SW Western Street and SW Spruce Street between I Street and SW Westholm Ave with a new 3,298 foot long reach of 12-inch, 15-inch, and 18-inch diameter sewers. Condition recommended project (1F) located along SW Western Ave north of the condition project is included under Project 1 to consolidate project. Plug pipe to east Bridge St (between B108 and B21) and reroute Bridge St Pump Station 8-inch force main (from B108) to SW Spruce St sewer once recommended piping upsizes is completed.

**Project Justification**

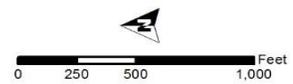
This project is required to mitigate surcharged conditions on SW Western Street and SW Spruce Street for existing PWWFs. The City should take the opportunity of implementing capacity project 1 (1A through 1G) to replace 1F condition related pipes.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Manholes
Phase 1 (Red line)	Phase 1 (Red square)	Modeled Pipelines
Phase 2 (Orange line)	Phase 3 (Yellow square)	Modeled Pump Station (PS)
Phase 3 (Yellow line)		





**City of Grants Pass**  
**Wastewater Collection System Master Plan**  
**CAPITAL IMPROVEMENT PLAN PROJECT 2-1**



**Project ID:** Project 2-1

**Project Vicinity Map**

**Description:** NW Highland Street  
**Improvements:** P-2A



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	x
Phase 2 (2021-2025)	—
Phase 3 (2026-2035)	—

**Capital Improvement Costs**

Baseline Construction Cost	\$ 152,100
Construction Contingency	\$ 30,400
<b>Estimated Construction Cost</b>	<b>\$ 182,500</b>
Engineering Services, Construction Management and Project Administration	\$ 113,500
<b>Total Capital Improvement Cost</b>	<b>\$ 296,000</b>
ENR CCI =	10,037 20-City Average, July 2015

**Project Location**

Along NW Highland Ave between 300 ft north of NW Parker Dr and NW Midland Ave

**Project Details**

Upsize about 939 feet of existing 8-inch diameter sewers with new 12-inch diameter pipes along NW Highland Ave between 300 feet north of NW Parker Dr and NW Midland Ave.

**Project Justification**

The existing trunk traveling south on NW Highland Ave lacks the hydraulic capacity to convey modeled peak flows started under existing conditions.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Manholes
Phase 1 (Red line)	Phase 1 (Red square)	Modeled Pipelines (Yellow line)
Phase 2 (Orange line)	Phase 3 (Yellow square)	Modeled Pump Station (Brown square)
Phase 3 (Yellow line)		



**City of Grants Pass**  
**Wastewater Collection System Master Plan**  
**CAPITAL IMPROVEMENT PLAN PROJECT 2-2**



**Project ID:** Project 2-2

**Project Vicinity Map**

**Description:** NW Prospect Street  
**Improvements:** P-2B through P-2C

**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**



**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____x
Phase 3 (2026-2035)	_____

**Capital Improvement Costs**

Baseline Construction Cost	\$ 253,500
Construction Contingency	\$ 50,700
<b>Estimated Construction Cost</b>	<b>\$ 304,200</b>
Engineering Services, Construction Management and Project Administration	\$ 189,800
<b>Total Capital Improvement Cost</b>	<b>\$ 494,000</b>

**Project Location**

Along NW Midland Ave, and south along NW Prospect Ave

ENR CCI = 10,037 20-City Average, July 2015

**Project Details**

Upsize about 1,457 feet of existing 8-, and 10-inch diameter sewers with new 12- and 15-inch diameter pipes along NW Midland Ave between NW Highland Ave and NW Prospect Ave and along NW Prospect Ave between NW Midland Ave and 150 feet south of NW Sandy Dr.

**Project Justification**

The existing trunk traveling east on NW Midland Ave, and south on NW Prospect Ave lacks the hydraulic capacity to convey modeled peak flows started under existing conditions.

**Project Detail Map**



**Legend**

Phase 1	Phase 1	Manholes
Phase 2	Phase 3	Modeled Pipelines
Phase 3		Modeled Pump Station





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 3**



**Project ID:** Project 3  
**Description:** NW Midland Avenue  
**Improvements:** P-3A through P-3A

**Project Type:** Capacity Only

**Funding Type:**

**% Attributable to Growth**

**Project Vicinity Map**



**Implementation Phase**

Phase 1 (2015-2020)	x
Phase 2 (2021-2025)	—
Phase 3 (2026-2035)	—

**Capital Improvement Costs**

Baseline Construction Cost	\$ 115,000
Construction Contingency	\$ 23,000
<b>Estimated Construction Cost</b>	<b>\$ 138,000</b>
Engineering Services, Construction Management and Project Administration	\$ 86,000
<b>Total Capital Improvement Cost</b>	<b>\$ 224,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Along Midland Ave between NW 6th St and NW Washington Blvd

**Project Details**

Construct 710 feet of new 12- inch sewers along NW Midland Ave between NE 6th St and NW Washington Blvd.

**Project Justification**

This project consists of diverting flows from NE 6th St to NW Washington Boulevard. Additional diversion pipes are implemented (Projects 15, 16, and 17) to free some capacity in the NE 6th Street and NE 7th Street sewers.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>
Phase 1 (Red line)	Phase 1 (Red square with PS)	Proposed Manholes (Red circle)
Phase 2 (Orange line)	Phase 3 (Yellow square with PS)	Modeled Pipelines (Yellow line)
Phase 3 (Yellow line)		Modeled Pump Station (Yellow square with PS)





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 4**



**Project ID:** Project 4  
**Description:** NE A Street  
**Improvements:** P-4A

**Project Vicinity Map**



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	<u>  x  </u>
Phase 2 (2021-2025)	<u>      </u>
Phase 3 (2026-2035)	<u>      </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 171,300
Construction Contingency	\$ 34,300
<b>Estimated Construction Cost</b>	<b>\$ 205,600</b>
Engineering Services, Construction Management and Project Administration	\$ 128,400
<b>Total Capital Improvement Cost</b>	<b>\$ 334,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

NE A Street from NE 7th Street to NE 9th Street.

**Project Details**

Replace approximately 844 feet of 12-inch diameter pipeline with a new 18-inch diameter sewer on NE A Street between NE 7th Street and NE 9th Street.

**Project Justification**

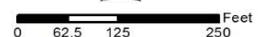
This project is required to mitigate existing capacity deficiencies in the existing 12-inch diameter gravity sewer on NE A Street.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>
Phase 1 (Red line)	Phase 1 (Red box with PS)	Modeled Pipelines (Yellow line)
Phase 2 (Orange line)	Phase 3 (Yellow box with PS)	Modeled Pump Station (Orange box with PS)
Phase 3 (Yellow line)		





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 5**



**Project ID:** Project 5  
**Description:** NE Savage Street / NE 9th Street  
**Improvements:** P-5A

**Project Vicinity Map**



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	x
Phase 2 (2021-2025)	—
Phase 3 (2026-2035)	—

**Capital Improvement Costs**

Baseline Construction Cost	\$ 555,700
Construction Contingency	\$ 111,100
<b>Estimated Construction Cost</b>	<b>\$ 666,800</b>
Engineering Services, Construction Management and Project Administration	\$ 417,200
<b>Total Capital Improvement Cost</b>	<b>\$ 1,084,000</b>

**Project Location**

Along NE Savage St and along NE 9th St

ENR CCI = 10,037 20-City Average, July 2015

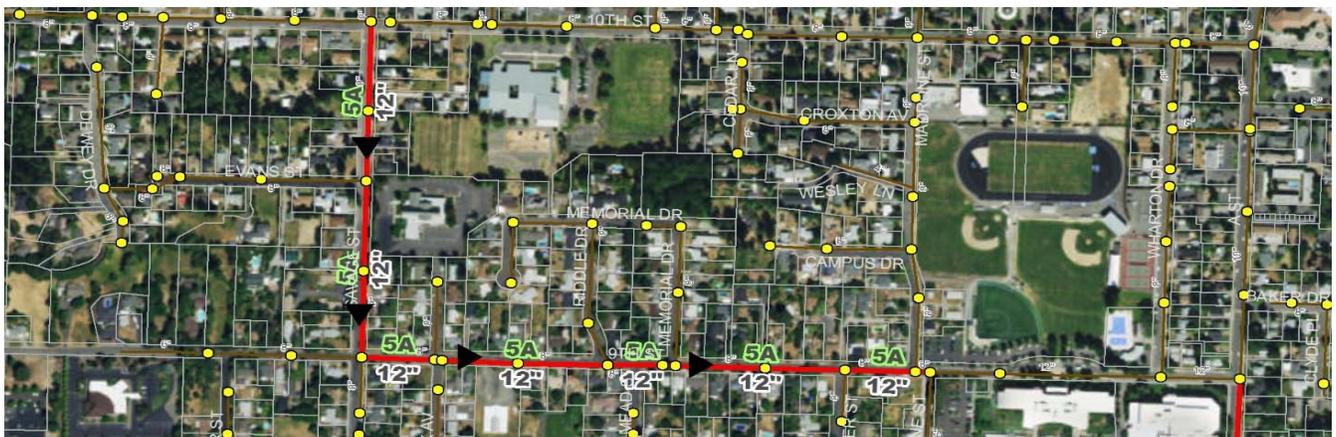
**Project Details**

Replace approximately 3,431 feet of existing 8-inch diameter pipeline with a new 12-inch diameter sewer along NE Savage St between NE 10th St and NE 9th St and along NE 9th St between NE Savage St and NE Josephine St.

**Project Justification**

The existing 8-inch trunk along NW Savage Street and NE 9th Street has insufficient capacity to convey design flows and creates bottlenecks.

**Project Detail Map**



**Legend**

- |                            |                                    |                                     |
|----------------------------|------------------------------------|-------------------------------------|
| Proposed Pipe Improvements | Proposed Pump Station Improvements | Manholes                            |
| Phase 1 (Red line)         | Phase 1 (Red square)               | Modeled Pipelines (Brown line)      |
| Phase 2 (Orange line)      | Phase 3 (Yellow square)            | Modeled Pump Station (Brown square) |
| Phase 3 (Yellow line)      |                                    |                                     |





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 6**



**Project ID:** Project 6  
**Description:** SE Mill Street / SE Rogue View Lane  
**Improvements:** P-6A through P-6C  
**Project Type:** Capacity and R&R  
**Funding Type:**  
**% Attributable to Growth**

**Project Vicinity Map**



**Implementation Phase**

Phase 1 (2015-2020)	x
Phase 2 (2021-2025)	—
Phase 3 (2026-2035)	—

**Capital Improvement Costs**

Baseline Construction Cost	\$ 1,450,100
Construction Contingency	\$ 290,100
<b>Estimated Construction Cost</b>	<b>\$ 1,740,200</b>
Engineering Services, Construction Management and Project Administration	\$ 1,086,800
<b>Total Capital Improvement Cost</b>	<b>\$ 2,827,000</b>
ENR CCI =	10,037 20-City Average, July 2015

**Project Location**

SE Mill Street, SE Rogue View Lane and SE M Street

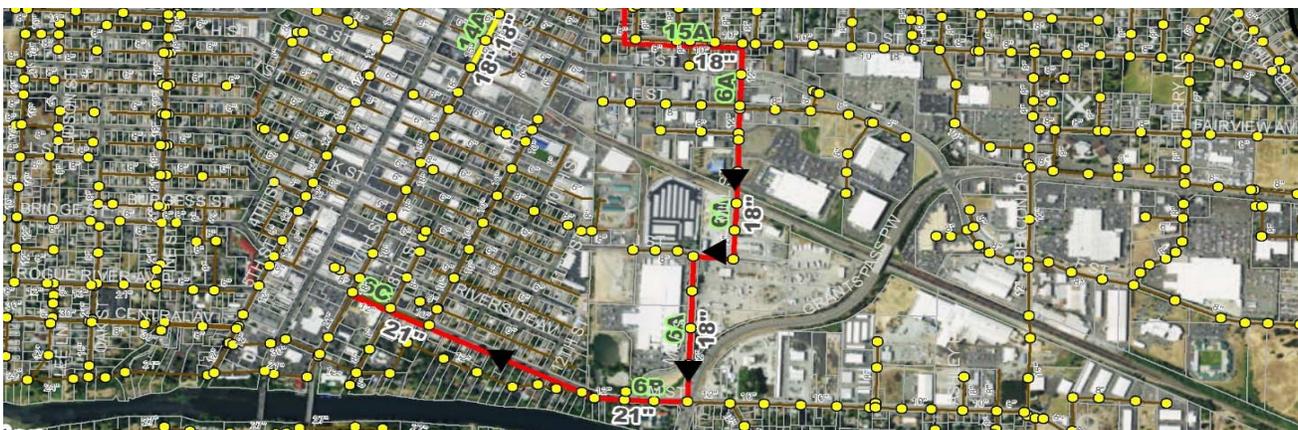
**Project Details**

Install a new pipeline along M Street west from the intersection of Mill Street and SE 12th St to the intersection of SE M St with SE 7th Street to connect to the 21-inch along SE 7th St. Replace 907 feet of existing 12-inch pipes located just south of the train tracks, along SE M St between SE Mill St and SE 12th St with 21-inch diameter pipes and 3,755 feet of existing 12-inch pipes with a new 18-inch sewer along SE Mill Street from NE D Street to SE M Street.

**Project Justification**

The existing 12-inch trunk travelling along SE Mill Street (beginning south of the train tracks), SE M Street, and along the river easement to SE 8th Street lacks capacity to convey the modeled design flow. Surcharging above the performance criteria in the manholes along this section is observed starting under existing conditions.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Manholes	WRP
— Phase 1	PS Phase 1	— Modeled Pipelines	North Arrow
— Phase 2	PS Phase 3	PS Modeled Pump Station	0 450 900 1,800 Feet
— Phase 3			



**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 7**



**Project ID:** Project 7  
**Description:** Anabelle Lane  
**Improvements:** P-7A

**Project Type:** Capacity Only

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____x_____
Phase 3 (2026-2035)	_____

**Project Location**

Dowell Road to Anabelle Lane to Wineteer Lane

**Project Vicinity Map**



**Capital Improvement Costs**

Baseline Construction Cost	\$ 434,400
Construction Contingency	\$ 86,900
<b>Estimated Construction Cost</b>	<b>\$ 521,300</b>
Engineering Services, Construction Management and Project Administration	\$ 326,700
<b>Total Capital Improvement Cost</b>	<b>\$ 848,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Details**

Replace the existing 1,948 feet of 15-inch pipe with a 21-inch pipe, which is greater than the upstream (15-inch) and downstream (18-inch) pipe diameters. The recommendation for the larger 21-inch pipe diameter is necessary based on existing pipe slopes of this segment and a design d/D value of 0.75.

**Project Justification**

The primary interceptor in the Redwood area runs westerly along the Rogue River. While portions of this pipeline surcharge during the PWWF due to low pipe slopes, only one section of the pipeline, between Wineteer Lane and Dowell Road, experiences surcharging above the performance criteria.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>	
Phase 1 (Red line)	Phase 1 (Red square)	Modeled Pipelines (Yellow line)	 0 75 150 300 Feet
Phase 2 (Orange line)	Phase 3 (Yellow square)	Modeled Pump Station (Yellow square)	
Phase 3 (Yellow line)			



**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 8**



**Project ID:** Project 8  
**Description:** Dowell Road  
**Improvements:** P-8A through P-8B

**Project Type:** Capacity Only

**Funding Type:**

**% Attributable to Growth**

**Project Vicinity Map**



**Implementation Phase**

Phase 1 (2015-2020)	x
Phase 2 (2021-2025)	—
Phase 3 (2026-2035)	—

**Capital Improvement Costs**

Baseline Construction Cost	\$ 214,200
Construction Contingency	\$ 42,900
<b>Estimated Construction Cost</b>	<b>\$ 257,100</b>
Engineering Services, Construction Management and Project Administration	\$ 161,900
<b>Total Capital Improvement Cost</b>	<b>\$ 419,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Along Dowell Road between Redwood Avenue and Leonard Road

**Project Details**

Replace the existing 8-inch main with 888 feet of 12-inch and 384 feet of 15-inch pipes. While there are similar flow rates through the entire improvement segment, the upgrade to the 15-inch for a portion of the improvement is necessary to maintain the design d/D value of 0.5 based on existing pipe slopes.

**Project Justification**

The existing 8-inch sewer along Dowell Road, located between Redwood Avenue and Leonard Road, lack sufficient capacity to convey the model design flow. Surcharging above the performance criteria is observed starting under existing conditions.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Manholes	  
— Phase 1	PS Phase 1	— Modeled Pipelines	
— Phase 2	PS Phase 3	PS Modeled Pump Station	
— Phase 3			



**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 9**



**Project ID:** Project 9  
**Description:** Gilbert Creek Park  
**Improvements:** P-9A

**Project Type:** Capacity Only

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	___
Phase 2 (2021-2025)	___
Phase 3 (2026-2035)	<u>x</u>

**Project Location**

Along Gilbert Creek Park 500 ft north of NW Parker Dr and west of NW Hawthorne Ave

**Project Details**

Replace 451 feet of existing 8-inch diameter pipe with a new 12-inch diameter trunk sewer located through the football field and track of the North Middle School. The pipe to replace is flat relative to the surrounding pipe, which creates a bottleneck along this line.

**Project Justification**

The existing trunk traveling south through the football field and track of the North Middle School lacks the hydraulic capacity to convey build-out design flows.

**Project Vicinity Map**



**Capital Improvement Costs**

Baseline Construction Cost	\$	73,100
Construction Contingency	\$	14,600
<b>Estimated Construction Cost</b>	<b>\$</b>	<b>87,700</b>
Engineering Services, Construction Management and Project Administration	\$	55,300
<b>Total Capital Improvement Cost</b>	<b>\$</b>	<b>143,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Manholes	WRP
Phase 1	Phase 1	Modeled Pipelines	
Phase 2	Phase 3	Modeled Pump Station	
Phase 3			0 75 150 300 Feet



**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 10-1**



**Project ID:** Project 10-1  
**Description:** Rogue Dr / SE Blue Bird Dr  
**Improvements:** P-10A through P-10B

**Project Vicinity Map**



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____x_____
Phase 3 (2026-2035)	_____

**Capital Improvement Costs**

Baseline Construction Cost	\$ 717,400
Construction Contingency	\$ 143,500
<b>Estimated Construction Cost</b>	<b>\$ 860,900</b>
Engineering Services, Construction Management and Project Administration	\$ 539,100
<b>Total Capital Improvement Cost</b>	<b>\$ 1,400,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Along Rogue Dr and through properties on north bank of the river

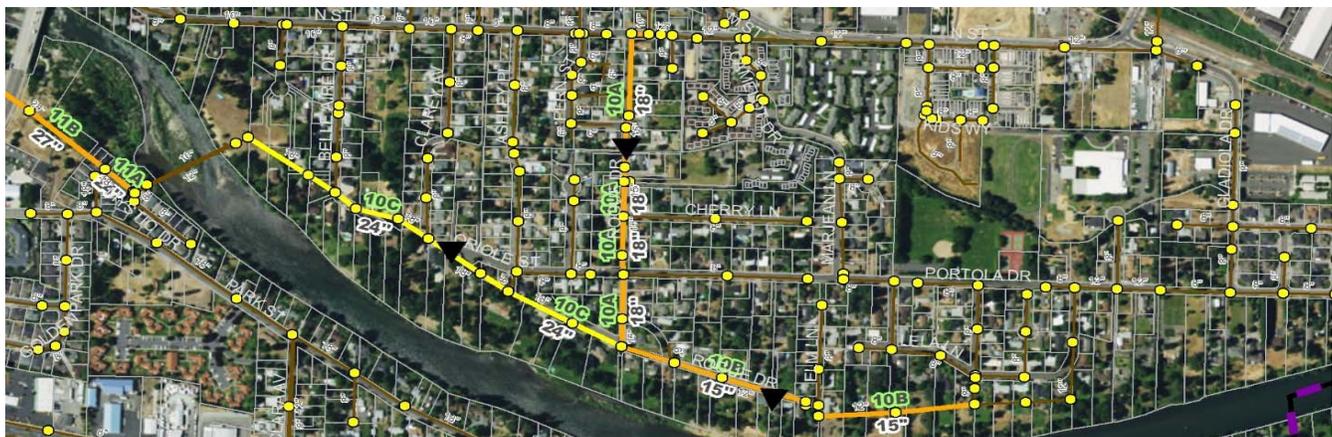
**Project Details**

Project 10-1 runs from south of Waterman Lane and Lela Lane to just upstream of the split pipeline flowing under the Rogue River, and along Rogue Drive. To alleviate the identified deficiencies, approximately 3,720 feet of 15-, and 18-inch pipelines are recommended to replace the existing 12- and 15- inch sewers.

**Project Justification**

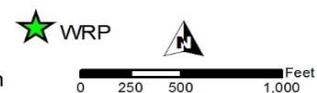
The existing interceptor that runs along the north bank of the Rogue River, just south of SE Rogue Drive, SE Blue Bird Drive, and SE Oriole Street, experiences surcharging above the stated surcharging criteria and lacks the hydraulic capacity to convey the design flows starting in the short-term planning period. This deficiency is mainly due to the connection of the Spalding industrial area to the existing collection system. Project 10-1 will need to be implemented concurrently with the construction of the Spalding pump station.

**Project Detail Map**



**Legend**

- |                            |                                    |                                     |
|----------------------------|------------------------------------|-------------------------------------|
| Proposed Pipe Improvements | Proposed Pump Station Improvements | Manholes                            |
| Phase 1 (Red line)         | Phase 1 (Red square)               | Modeled Pipelines (Yellow line)     |
| Phase 2 (Orange line)      | Phase 3 (Yellow square)            | Modeled Pump Station (Brown square) |
| Phase 3 (Green line)       |                                    |                                     |





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 10-2**



**Project ID:** Project 10-2  
**Description:** West SE Blue Bird Dr  
**Improvements:** P-10C

**Project Vicinity Map**



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____
Phase 3 (2026-2035)	_____x

**Capital Improvement Costs**

Baseline Construction Cost	\$ 538,800
Construction Contingency	\$ 107,800
<b>Estimated Construction Cost</b>	<b>\$ 646,600</b>
Engineering Services, Construction Management and Project Administration	\$ 404,400
<b>Total Capital Improvement Cost</b>	<b>\$ 1,051,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Along Rogue Dr and through properties on north bank of the river

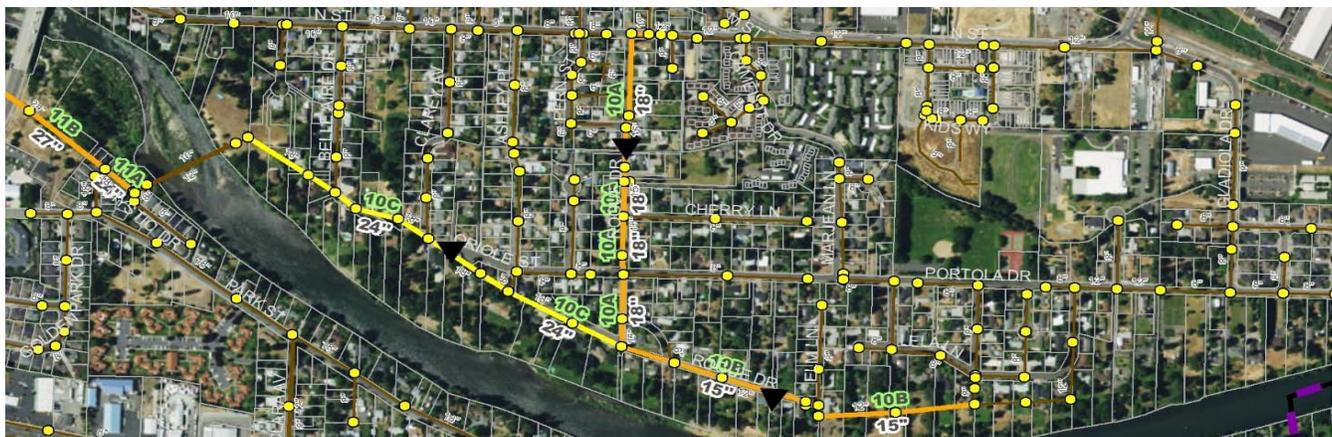
**Project Details**

Project 10-2 runs through the properties on the north bank of the river, west of Rogue Dr. Project 10-2 consists of upsizing 2,208 feet of 18-inch with 24-inch. Project 10-2 will need to be implemented concurrently with the development of the east and north part of the Spalding industrial area in the long-term.

**Project Justification**

The existing interceptor that runs along the north bank of the Rogue River, just south of SE Rogue Drive, SE Blue Bird Drive, and SE Oriole Street, experiences surcharging above the stated surcharging criteria and lacks the hydraulic capacity to convey the design flows starting in the short-term planning period. This deficiency is mainly due to the connection of the Spalding industrial area to the existing collection system.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Manholes	  
Phase 1	Phase 1	Modeled Pipelines	
Phase 2	Phase 3	Modeled Pump Station	
Phase 3			



**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 11**



**Project ID:** Project 11  
**Description:** Park Street  
**Improvements:** P-11A through P-11B

**Project Vicinity Map**



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____x_____
Phase 3 (2026-2035)	_____

**Capital Improvement Costs**

Baseline Construction Cost	\$ 273,700
Construction Contingency	\$ 54,800
<b>Estimated Construction Cost</b>	<b>\$ 328,500</b>
Engineering Services, Construction Management and Project Administration	\$ 205,500
<b>Total Capital Improvement Cost</b>	<b>\$ 534,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Along Park Street downstream of the siphon crossing the Rogue River

**Project Details**

Upsize 202 feet of 18 inch and 795 feet of existing 24-inch with 24-inch and 27-inch diameter sewers, respectively along Park Street on the south side of the Rogue River.

**Project Justification**

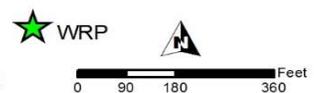
The existing interceptor located downstream of the siphon south of the Rogue River along Park Street experiences surcharging above the stated surcharging criteria and lacks capacity immediately downstream the siphon causing backwater and high HGL in the siphon.

**Project Detail Map**



**Legend**

- |                            |                                    |                                     |
|----------------------------|------------------------------------|-------------------------------------|
| Proposed Pipe Improvements | Proposed Pump Station Improvements | Manholes                            |
| Phase 1 (Red line)         | Phase 1 (Red square)               | Modeled Pipelines (Yellow line)     |
| Phase 2 (Orange line)      | Phase 3 (Yellow square)            | Modeled Pump Station (Brown square) |
| Phase 3 (Yellow line)      |                                    |                                     |





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 12**



**Project ID:** Project 12  
**Description:** Darneille Lane  
**Improvements:** P-12A

**Project Vicinity Map**



**Project Type:** Capacity Only

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____
Phase 3 (2026-2035)	<u>    x    </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 314,800
Construction Contingency	\$ 63,000
<b>Estimated Construction Cost</b>	<b>\$ 377,800</b>
Engineering Services, Construction Management and Project Administration	\$ 236,200
<b>Total Capital Improvement Cost</b>	<b>\$ 614,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Along Darneille Lane, between SW Harvest Dr and the Darneille Pump Station

**Project Details**

Replace a total of 1,551 feet of existing 12-inch sewers with 18-inch sewer pipelines upstream of the Darneille Pump Station.

**Project Justification**

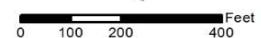
Portions of the existing trunk sewer that runs along Darneille Lane, between SW Harvest Drive and the Darneille Pump Station are capacity deficient and result in surcharging above the planning criteria during build-out PWWF.

**Project Detail Map**



**Legend**

- |                            |                                    |                                     |
|----------------------------|------------------------------------|-------------------------------------|
| Proposed Pipe Improvements | Proposed Pump Station Improvements | Manholes                            |
| Phase 1 (Red line)         | Phase 1 (Red square)               | Modeled Pipelines (Yellow line)     |
| Phase 2 (Orange line)      | Phase 3 (Yellow square)            | Modeled Pump Station (Brown square) |
| Phase 3 (Yellow line)      |                                    |                                     |





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 13**



**Project ID:** Project 13  
**Description:** Mesman Drive to Coutant Lane  
**Improvements:** P-13A through P-13B

**Project Vicinity Map**



**Project Type:** Capacity Only

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	___
Phase 2 (2021-2025)	___
Phase 3 (2026-2035)	<u>  x  </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 769,200
Construction Contingency	\$ 153,900
<b>Estimated Construction Cost</b>	<b>\$ 923,100</b>

Engineering Services, Construction Management and Project Administration	\$ 576,900
<b>Total Capital Improvement Cost</b>	<b>\$ 1,500,000</b>

**Project Location**

RSSD Interceptor between Mesman Dr and Coutant Ln

ENR CCI = 10,037 20-City Average, July 2015

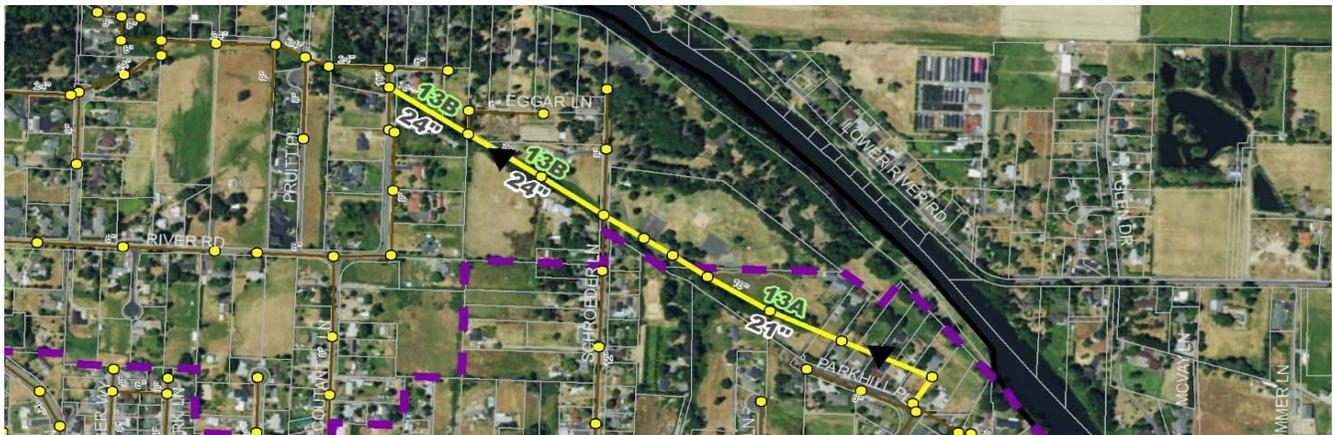
**Project Details**

Upsize the existing 18-inch main with 2,047 feet of 21-inch pipeline and 1,282 feet of 24-inch.

**Project Justification**

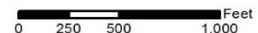
This improvement is located along the primary interceptor in the Redwood area that runs westerly along the Rogue River. The additional flow from build-out conditions causes surcharging above the planning criteria for the portion of the interceptor between Mesman Drive and Coutant Lane.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>
Phase 1 (Red line)	Phase 1 (Red square)	Modeled Pipelines (Yellow line)
Phase 2 (Orange line)	Phase 3 (Yellow square)	Modeled Pump Station (Brown square)
Phase 3 (Yellow line)		





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 14**



**Project ID:** Project 14  
**Description:** NE 7th Street  
**Improvements:** P-14A

**Project Vicinity Map**



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____x_____
Phase 3 (2026-2035)	_____

**Capital Improvement Costs**

Baseline Construction Cost	\$ 310,800
Construction Contingency	\$ 62,200
<b>Estimated Construction Cost</b>	<b>\$ 373,000</b>

**Project Location**

Along NE 7th St between NE A St and NE F St

Engineering Services, Construction Management and Project Administration	\$ 233,000
<b>Total Capital Improvement Cost</b>	<b>\$ 606,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Details**

Upsize the existing 1,531 feet of 12-inch with an 18-inch pipeline along NE 7th Street between NE F Street and NE A Street.

**Project Justification**

Portions of the existing trunk sewer that runs along NE 7th Street, south of A Street, are capacity deficient which results in surcharging above the planning criteria during build-out PWWF. This deficiency is a Long-Term period issue that should be address when development occurs upstream and the flows are augmenting. However, the repair and replacement analysis performed in Chapter 4 identified these pipes as needing sooner attention and repair due to structural and maintenance issues, justifying its allocation to Phase 2.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>
Phase 1	Phase 1	Modeled Pipelines
Phase 2	Phase 3	Modeled Pump Station
Phase 3		

WRP

0 120 240 480 Feet



**City of Grants Pass**  
**Wastewater Collection System Master Plan**  
**CAPITAL IMPROVEMENT PLAN PROJECT 15**



**Project ID:** Project 15  
**Description:** NE Dean Drive / NE D Street  
**Improvements:** P-15A

**Project Vicinity Map**



**Project Type:** Capacity Only

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	<u>  x  </u>
Phase 2 (2021-2025)	<u>      </u>
Phase 3 (2026-2035)	<u>      </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 407,800
Construction Contingency	\$ 81,600
<b>Estimated Construction Cost</b>	<b>\$ 489,400</b>

Engineering Services, Construction Management and Project Administration	\$ 305,600
<b>Total Capital Improvement Cost</b>	<b>\$ 795,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Along NE Dean Dr and NE D St from NE A St to SE Mill St

**Project Details**

A new pipeline along NE Dean Drive and NE D Street from NE A Street to SE Mill Street is proposed. Construct 2,009 feet of new 18-inch diversion pipeline. Project 6 will need to be implemented as soon as this diversion becomes on-line.

**Project Justification**

Flows from wastewater basin H currently flows west on NE A Street towards NE 7th Street, overloading the NE 7th Street trunk.

A new pipeline along NE Dean Drive and NE D Street from NE A Street to SE Mill Street is proposed. The purpose of this new collector is to redirect flows away from NE 7th Street towards wastewater basin I.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>
Phase 1 (Red line)	Phase 1 (Red box with PS)	Modeled Pipelines (Yellow line)
Phase 2 (Orange line)	Phase 3 (Yellow box with PS)	Modeled Pump Station (Brown box with PS)
Phase 3 (Yellow line)		





**City of Grants Pass**  
**Wastewater Collection System Master Plan**  
**CAPITAL IMPROVEMENT PLAN PROJECT 16**



**Project ID:** Project 16  
**Description:** NW Evelyn Street  
**Improvements:** P-16A

**Project Vicinity Map**



**Project Type:** Capacity Only

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	<u>  x  </u>
Phase 2 (2021-2025)	<u>      </u>
Phase 3 (2026-2035)	<u>      </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 97,400
Construction Contingency	\$ 19,500
<b>Estimated Construction Cost</b>	<b>\$ 116,900</b>

Engineering Services, Construction Management and Project Administration	\$ 73,100
<b>Total Capital Improvement Cost</b>	<b>\$ 190,000</b>

**Project Location**

Along Evelyn Ave between Washington Boulevard and NW 2nd St

ENR CCI = 10,037 20-City Average, July 2015

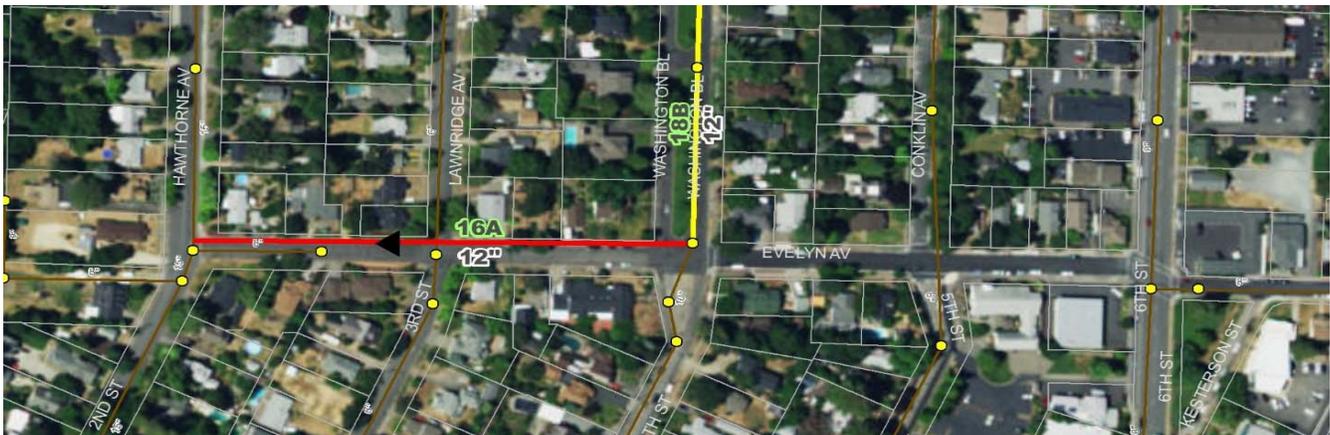
**Project Details**

Construct a new 12-inch diameter trunk sewer along Evelyn Avenue that would connect Washington Boulevard with NW 2nd Street.

**Project Justification**

This improvement consists of redirecting flows from NE 6th Street towards wastewater basin C and NW 2nd Street. Projects 17 and 18 divert flows from NE 6th Street to Washington Boulevard and this project reroutes these flows to NW 2nd Street. The existing sewer on NW 2nd Street has capacity availability and is able to receive diverted flows from NE 6th Street with no additional improvements.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>
Phase 1 (Red line)	Phase 1 (Red square with PS)	Modeled Pipelines (Yellow line)
Phase 2 (Orange line)	Phase 3 (Yellow square with PS)	Modeled Pump Station (Brown square with PS)
Phase 3 (Yellow line)		





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 17**



**Project ID:** Project 17  
**Description:** NW Morgan Lane  
**Improvements:** P-17A

**Project Vicinity Map**



**Project Type:** Capacity Only

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____x_____
Phase 3 (2026-2035)	_____

**Capital Improvement Costs**

Baseline Construction Cost	\$	33,700
Construction Contingency	\$	6,700
<b>Estimated Construction Cost</b>	<b>\$</b>	<b>40,400</b>

Engineering Services, Construction Management and Project Administration	\$	25,600
<b>Total Capital Improvement Cost</b>	<b>\$</b>	<b>66,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Along Morgan Ln between NW 6th St and NW Washington Blvd

**Project Details**

Construct a 208-feet long new 8-inch diameter trunk sewer along NW Morgan Lane that would connect NW 6th Street with Washington Boulevard.

**Project Justification**

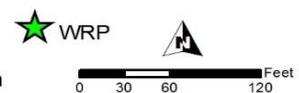
Flows from part of the North I-5 area (wastewater basin GG on Figure 4.2) is planned to be connected to the NE 6th Street trunk, significantly increasing future flows in this collector. This project consists of creating a new diversion on NW Morgan Lane from NE 6th Street to NW Washington Boulevard to relieve both NE 6th Street and NE 7th Street, and free capacity in the NE 6th Street sewer trunk.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>
Phase 1	Phase 1	Modeled Pipelines
Phase 2	Phase 3	Modeled Pump Station
Phase 3		





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 18**



**Project ID:** Project 18  
**Description:** NW Washington Boulevard  
**Improvements:** P-18A through P-18B

**Project Vicinity Map**



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____
Phase 3 (2026-2035)	_____x

**Capital Improvement Costs**

Baseline Construction Cost	\$ 480,500
Construction Contingency	\$ 96,100
<b>Estimated Construction Cost</b>	<b>\$ 576,600</b>

**Project Location**

Along NW Washington Blvd between NW Midland Ave and NW Evelyn Ave

Engineering Services, Construction Management and Project Administration	\$ 361,400
<b>Total Capital Improvement Cost</b>	<b>\$ 938,000</b>

ENR CCI = 10,037 20-City Average, July 2015

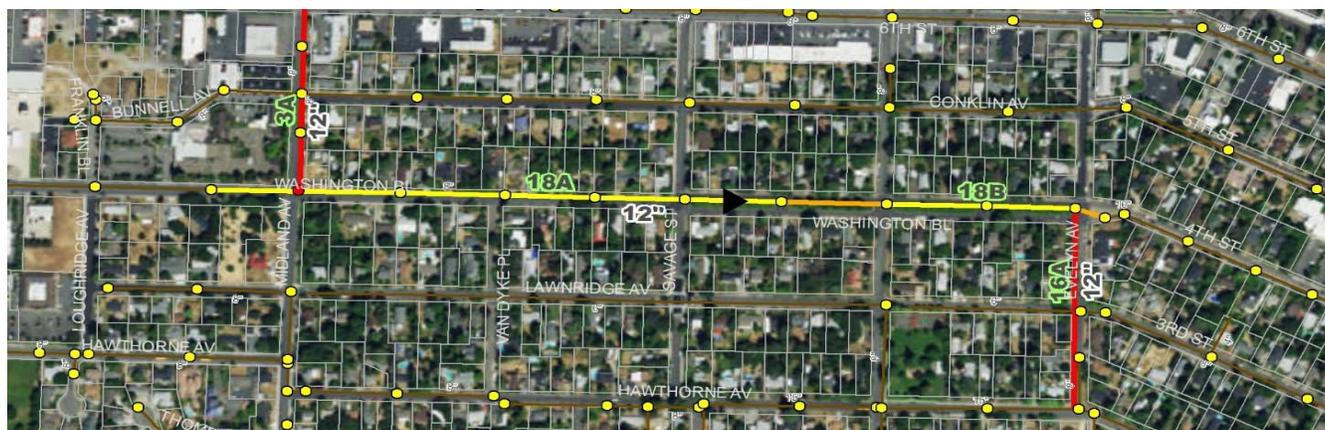
**Project Details**

Upsize 2,966 of existing 8-inch and 10-inch sewer with a 12-inch sewer along NW Washington Blvd between NW Midland Ave and NW Evelyn Ave.

**Project Justification**

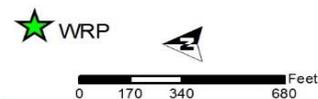
As shown with Projects 3 and 17, flows from the NE 6th St trunk are diverted to NW Washington Blvd to alleviate the 6th St Trunk located on one of the busiest streets of the City. NW Washington Blvd now gets significant flows from 6th St in the future and capacity in this trunk becomes insufficient (above 2ft above pipe crown) in the long-term (2035).

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	Manholes
Phase 1	Phase 1	Proposed Manhole
Phase 2	Phase 3	Modeled Pipelines
Phase 3		Modeled Pump Station





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 19**



**Project ID:** Project 19  
**Description:** Darneille Pump Station  
**Improvements:** PS-19A through PS-19B

**Project Vicinity Map**



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	<u>  x  </u>
Phase 2 (2021-2025)	<u>      </u>
Phase 3 (2026-2035)	<u>      </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 2,518,500
Construction Contingency	\$ 627,700
<b>Estimated Construction Cost</b>	<b>\$ 3,146,200</b>
Engineering Services, Construction Management and Project Administration	\$ 1,966,800
<b>Total Capital Improvement Cost</b>	<b>\$ 5,113,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Darneille Pump Station

**Project Details**

Five high level options were developed as part of this Plan to improve Darneille Pump Station. A recommendation for Darneille Pump Station should be made following an Alternative Analysis evaluating costs and other parameters in further detail to develop a recommended solution to the capacity limitations at the Darneille Pump Station. This project includes an Alternatives Analysis and a placeholder for recommended project.

**Project Justification**

By 2035, PWWF is projected to be almost twice as much as current pump station firm capacity. This area serves the Redwood service area and flow monitoring revealed significant amount of Inflow and Infiltration on these basins. Inflow is an issue upstream of the Darneille Pump Station where significant flow enters the system through leaking manholes and private sewer laterals.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>
Phase 1 (Red line)	Phase 1 (Red square with PS)	Modeled Pipelines (Yellow line)
Phase 2 (Orange line)	Phase 3 (Yellow square with PS)	Modeled Pump Station (Brown square with PS)
Phase 3 (Yellow line)		





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 20**



**Project ID:** Project 20  
**Description:** Webster No.1 Lift Station  
**Improvements:** PS-20A

**Project Vicinity Map**



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	x
Phase 2 (2021-2025)	—
Phase 3 (2026-2035)	—

**Capital Improvement Costs**

Baseline Construction Cost	\$ 368,400
Construction Contingency	\$ 92,100
<b>Estimated Construction Cost</b>	<b>\$ 460,500</b>
Engineering Services, Construction Management and Project Administration	\$ 153,500
<b>Total Capital Improvement Cost</b>	<b>\$ 614,000</b>

**Project Location**

Webster No.1 Lift Station

ENR CCI = 10,037 20-City Average, July 2015

**Project Details**

Upgrade Webster No.1 to a firm capacity of 0.66 mgd. This lift station is currently under design and is being sized to convey projected build-out flows for the design storm. No challenges will exist when the new Lift Station is in place. Construction is planned to begin in 2016.

**Project Justification**

The hydraulic model suggests that once the study area is build-out, the insufficient capacity at Webster No. 1 could cause sanitary sewer overflows (SSOs) from manholes upstream of the pump station. Upgrading this lift station before infill and new development occurs upstream of this area will be important to ensuring sufficient capacity in the collection system.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Manholes	  
— Phase 1	PS Phase 1	— Modeled Pipelines	
— Phase 2	PS Phase 3	PS Modeled Pump Station	
— Phase 3			



**City of Grants Pass**  
**Wastewater Collection System Master Plan**  
**CAPITAL IMPROVEMENT PLAN PROJECT 21**



**Project ID:** Project 21  
**Description:** Webster No.2 Lift Station  
**Improvements:** PS-21A

**Project Vicinity Map**



**Project Type:** Capacity and R&R

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____x_____
Phase 3 (2026-2035)	_____

**Capital Improvement Costs**

Baseline Construction Cost	\$ 491,200
Construction Contingency	\$ 122,800
<b>Estimated Construction Cost</b>	<b>\$ 614,000</b>
Engineering Services, Construction Management and Project Administration	\$ 384,000
<b>Total Capital Improvement Cost</b>	<b>\$ 998,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Webster No.2 Lift Station

**Project Details**

Upgrade Webster No.2 to a firm capacity of 0.23 mgd. Improvements to this lift station can be made when the station reaches its useful life and pumps need to be upgraded.

**Project Justification**

This lift station is expected to be deficient by year 2035. The 2035 deficiency for the peak hour flows is minimal, and equals approximately 0.08 mgd. While it is recommended that Webster No. 2 be upgraded to facilitate the additional flows for build-out of this area, other lift station improvements should rank higher in priority based on the magnitude of their deficiencies in comparison to Webster No. 2.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Manholes	WRP N 0 125 250 500 Feet
Phase 1	Phase 1	Modeled Pipelines	
Phase 2	Phase 2	Modeled Pump Station	
Phase 3	Phase 3		



**City of Grants Pass**  
**Wastewater Collection System Master Plan**  
**CAPITAL IMPROVEMENT PLAN PROJECT 22**



**Project ID:** Project 22  
**Description:** Spalding Area Development Expansion  
**Improvements:** PS-22A through P-22E

**Project Vicinity Map**



**Project Type:** Expansion

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____x
Phase 3 (2026-2035)	_____x

**Capital Improvement Costs**

Baseline Construction Cost	\$ 2,331,100
Construction Contingency	\$ 486,900
<b>Estimated Construction Cost</b>	<b>\$ 2,818,000</b>
Engineering Services, Construction Management and Project Administration	\$ 1,904,000
<b>Total Capital Improvement Cost</b>	<b>\$ 4,722,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Spalding Area Development Expansion

**Project Details**

Due to the expected partial development of this area in the short-term planning period (2025), the proposed pump station will need to be constructed before 2025 when the area is scheduled to start developing. High-level planning analysis revealed that the estimated build-out ADFW is 55 gpm, while the projected PWWF is 110 gpm under build-out conditions. Construct 11,383 feet of gravity sewers to connect this area to the existing system.

**Project Justification**

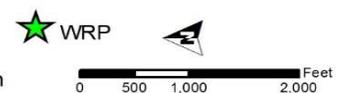
This area is located in the east of the City's conveyance system, just north of the Rogue River. Carollo completed a technical memorandum in 2015 to provide an opinion of the capital cost to provide wastewater service to the Spalding industrial area. This analysis confirmed that a pump station located approximately west of Jones Creek on the eastern edge of the Urban Growth Boundary (UGB) and a force main are needed to convey flows from the Spalding industrial area to the existing sewer in Portola Drive.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>
Phase 1 (Red line)	Phase 1 (Red square)	Modeled Pipelines (Black line)
Phase 2 (Orange line)	Phase 3 (Yellow square)	Modeled Pump Station (Black square)
Phase 3 (Yellow line)		





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 23**



**Project ID:** Project 23  
**Description:** North I-5 Area Development Expansion  
**Improvements:** PS-23A through P-23D

**Project Vicinity Map**



**Project Type:** Expansion

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____
Phase 3 (2026-2035)	_____x_____

**Capital Improvement Costs**

Baseline Construction Cost	\$ 5,431,300
Construction Contingency	\$ 1,106,300
<b>Estimated Construction Cost</b>	<b>\$ 6,537,600</b>

Engineering Services, Construction Management and Project Administration	\$ 4,086,400
<b>Total Capital Improvement Cost</b>	<b>\$ 10,624,000</b>

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

North I-5 Area Development Expansion

**Project Details**

Highway crossings and a new pump station of 95 gpm of firm capacity are recommended to connect these areas to the existing collection system. Three crossings are proposed in order to route all the flow from these to the existing system:

- At the intersection of Highland Avenue with I-5,
- Across I-5 at the latitude of Cherokee Ln dead-end, and
- From existing manhole F349 northeast crossing NE Vine Street and I-5.

**Project Justification**

The growth area located north of I-5 is challenging to connect to the existing system. A new pump station is necessary to capture flows coming from the north-west, as the slope gradient in this area is towards the west, and the flow needs to be routed to the east to the existing system.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	• Manholes
Phase 1 (Red line)	PS Phase 1 (Red square)	— Modeled Pipelines
Phase 2 (Orange line)	PS Phase 3 (Yellow square)	PS Modeled Pump Station (Brown square)
Phase 3 (Yellow line)		





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 24**



**Project ID:** Project 24  
**Description:** South Highway Area Development Expansion  
**Improvements:** P-24A

**Project Vicinity Map**



**Project Type:** Expansion

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____
Phase 3 (2026-2035)	_____x

**Capital Improvement Costs**

Baseline Construction Cost	\$ 1,524,500
Construction Contingency	\$ 304,900
<b>Estimated Construction Cost</b>	<b>\$ 1,829,400</b>

Engineering Services, Construction Management and Project Administration	\$ 1,143,600
<b>Total Capital Improvement Cost</b>	<b>\$ 2,973,000</b>

**Project Location**

South Highway Area Development Expansion

ENR CCI = 10,037 20-City Average, July 2015

**Project Details**

This growth area is located south of the Redwood Highway. Most of the area is planned to connect to the sewer pipe located along Willow Lane. Eight-inch gravity pipes are recommended to collect flows in this area.

**Project Justification**

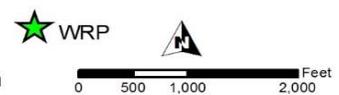
This project corresponds to high-level planning improvement to connect the area located south of the Redwood Highway.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Manholes
Phase 1 (Red line)	Phase 1 (Red square)	Modeled Pipelines (Yellow line)
Phase 2 (Orange line)	Phase 3 (Yellow square)	Modeled Pump Station (Brown square)
Phase 3 (Yellow line)		





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 25**



**Project ID:** Project 25  
**Description:** South Rogue River Area Development Expansion  
**Improvements:** P-25A

**Project Vicinity Map**



**Project Type:** Expansion

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	___
Phase 2 (2021-2025)	___
Phase 3 (2026-2035)	<u>  x  </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 329,200
Construction Contingency	\$ 65,800
<b>Estimated Construction Cost</b>	<b>\$ 395,000</b>
Engineering Services, Construction Management and Project Administration	\$ 248,000
<b>Total Capital Improvement Cost</b>	<b>\$ 643,000</b>

**Project Location**

South Rogue River Area Development Expansion

ENR CCI = 10,037 20-City Average, July 2015

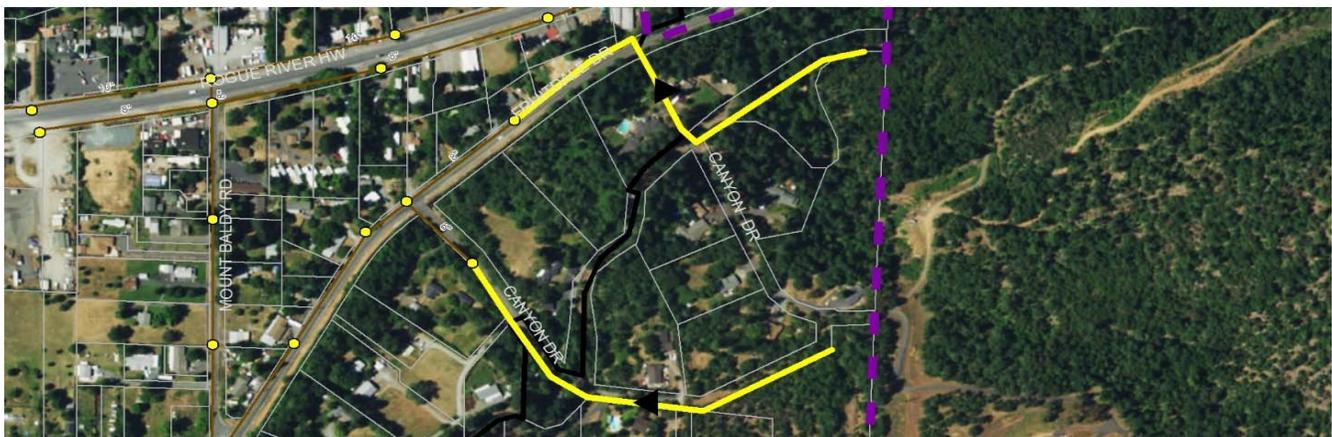
**Project Details**

This growth area is located south of the Rogue River, south of the Spalding industrial area. Eight-inch gravity pipes are recommended to collect flows in this area.

**Project Justification**

This project corresponds to high-level planning improvement to connect the area located south of the Rogue River Area in the east of the City.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>	  
Phase 1	Phase 1	Modeled Pipelines	
Phase 2	Phase 3	Modeled Pump Station	
Phase 3			



**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 26**



**Project ID:** Project 26  
**Description:** West NW Starlite Ln Area Development Expansion  
**Improvements:** P-26A

**Project Vicinity Map**



**Project Type:** Expansion

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____
Phase 3 (2026-2035)	<u>  x  </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 723,900
Construction Contingency	\$ 144,800
<b>Estimated Construction Cost</b>	<b>\$ 868,700</b>

Engineering Services, Construction Management and Project Administration	\$ 542,300
<b>Total Capital Improvement Cost</b>	<b>\$ 1,411,000</b>

**Project Location**

West NW Starlite Ln Area Development Expansion

ENR CCI = 10,037 20-City Average, July 2015

**Project Details**

This growth area is located west of the NW Starlite Lane. Eight-inch gravity pipes are recommended to collect flows in this area.

**Project Justification**

This project corresponds to high-level planning improvement to connect the area located west of NW Starlite Lane.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Manholes	WRP	
Phase 1	PS Phase 1	Modeled Pipelines		
Phase 2	PS Phase 3	Modeled Pump Station		
Phase 3				



**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT R&R-1**



**Project ID:** Project R&R-1  
**Description:** Condition Only Projects - Phase 1 North of Rogue River  
**Improvements:** P-R&R-1A through P-R&R-1G

**Project Vicinity Map**



**Project Type:** R&R Only

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	<u>  x  </u>
Phase 2 (2021-2025)	<u>      </u>
Phase 3 (2026-2035)	<u>      </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 8,021,700
Construction Contingency	\$ 1,604,300
<b>Estimated Construction Cost</b>	<b>\$ 9,626,000</b>

Engineering Services, Construction Management and Project Administration	\$ 6,018,000
<b>Total Capital Improvement Cost</b>	<b>\$ 15,644,000</b>

**Project Location**

Condition Only Projects - Phase 1 North of Rogue River

ENR CCI = 10,037 20-City Average, July 2015

**Project Details**

Repair or replace the identified pipelines for condition purposes in Phase 1 (2015-2020).

**Project Justification**

These pipes located north of the Rogue River have already reached their remaining useful lives or will in the next 20 years and also present major structural defects and/or maintenance issues.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Modeled Pipelines
— Phase 1	PS Phase 1	— Modeled Pump Station
— Phase 2	PS Phase 2	★ WRP
— Phase 3	PS Phase 3	





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT R&R-2**



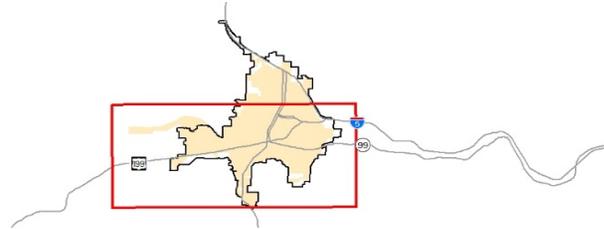
**Project ID:** Project R&R-2  
**Description:** Condition Only Projects - Phase 1 South of Rogue River  
**Improvements:** P-R&R-2A through P-R&R-2D

**Project Vicinity Map**

**Project Type:** R&R Only

**Funding Type:**

**% Attributable to Growth**



**Implementation Phase**

Phase 1 (2015-2020)	<u>  x  </u>
Phase 2 (2021-2025)	<u>      </u>
Phase 3 (2026-2035)	<u>      </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 365,600
Construction Contingency	\$ 73,100
<b>Estimated Construction Cost</b>	<b>\$ 438,700</b>

**Project Location**

Condition Only Projects - Phase 1 South of Rogue River

Engineering Services, Construction Management and Project Administration	\$ 275,300
<b>Total Capital Improvement Cost</b>	<b>\$ 714,000</b>

ENR CCI = 10,037 20-City Average, July 2015

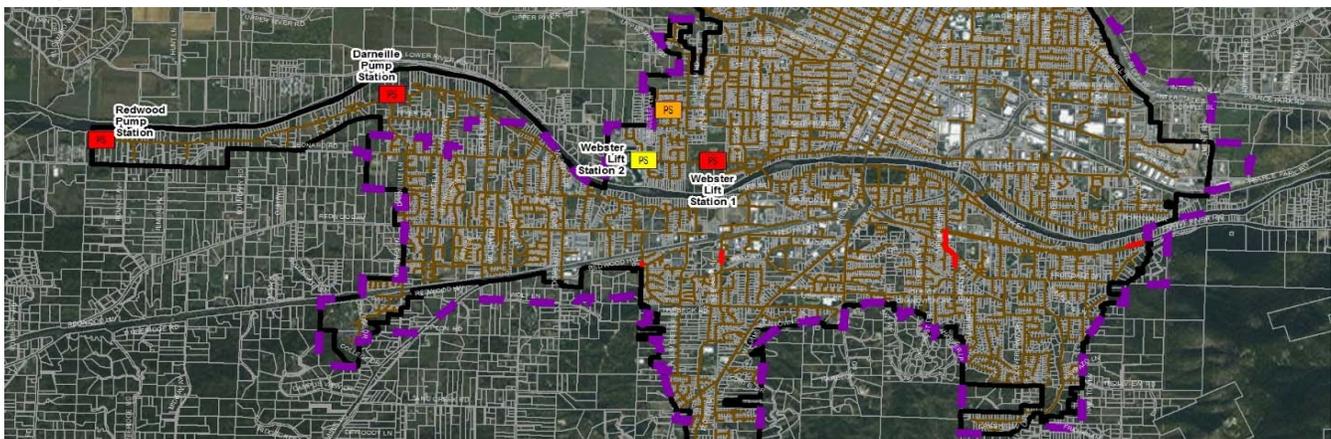
**Project Details**

Repair or replace the identified pipelines for condition purposes in Phase 1 (2015-2020).

**Project Justification**

These pipes located south of the Rogue River have already reached their remaining useful lives or will in the next 20 years and also present major structural defects and/or maintenance issues.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	— Modeled Pipelines
— Phase 1	PS Phase 1	— Modeled Pump Station
— Phase 2	PS Phase 2	★ WRP
— Phase 3	PS Phase 3	





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT R&R-3**



**Project ID:** Project R&R-3  
**Description:** Condition Only Projects - Phase 2 North of Rogue River  
**Improvements:** P-R&R-3A through P-R&R-3E

**Project Vicinity Map**

**Project Type:** R&R Only

**Funding Type:**

**% Attributable to Growth**



**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____x_____
Phase 3 (2026-2035)	_____

**Capital Improvement Costs**

Baseline Construction Cost	\$ 7,833,300
Construction Contingency	\$ 1,566,700
<b>Estimated Construction Cost</b>	<b>\$ 9,400,000</b>

Engineering Services, Construction Management and Project Administration	\$ 5,875,000
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**Total Capital Improvement Cost** **\$ 15,275,000**

ENR CCI = 10,037 20-City Average, July 2015

**Project Location**

Condition Only Projects - Phase 2 North of Rogue River

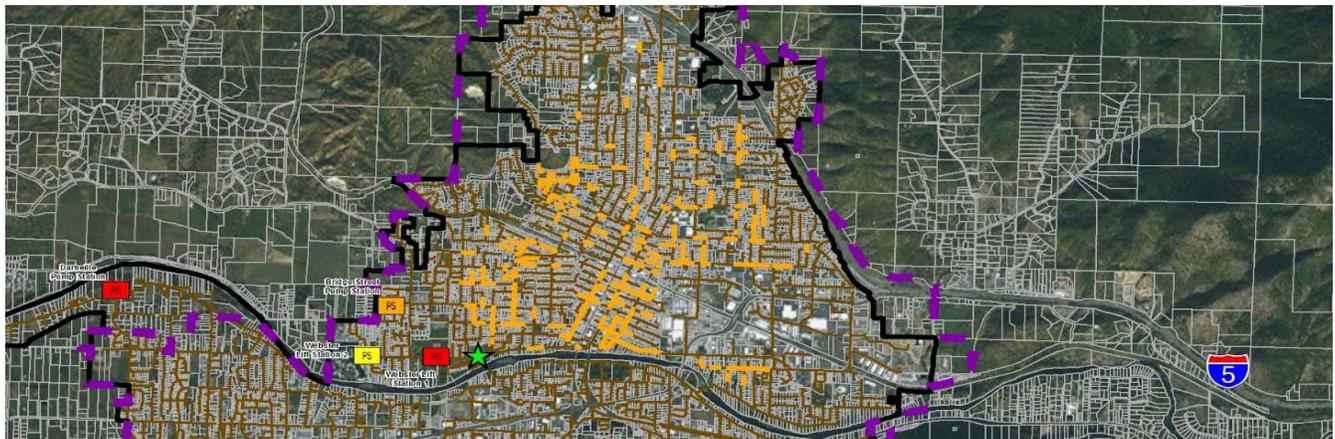
**Project Details**

Repair or replace the identified pipelines for condition purposes in Phase 2 (2021-2025).

**Project Justification**

These pipes located north of the Rogue River have already reached their remaining useful lives or will in the next 20 years and also present significant structural defects and/or maintenance issues.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Modeled Pipelines
Phase 1 (red line)	Phase 1 (red square)	Modeled Pump Station (orange square)
Phase 2 (orange line)	Phase 2 (orange square)	WRP (green star)
Phase 3 (yellow line)	Phase 3 (yellow square)	





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT R&R-4**



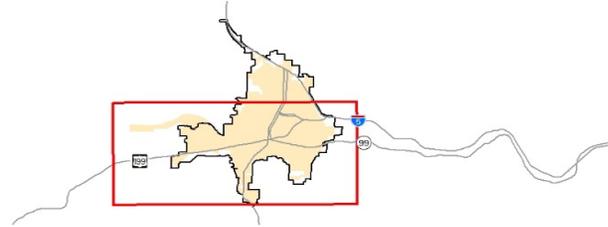
**Project ID:** Project R&R-4  
**Description:** Condition Only Projects - Phase 2 South of Rogue River  
**Improvements:** P-R&R-4A through P-R&R-4D

**Project Vicinity Map**

**Project Type:** R&R Only

**Funding Type:**

**% Attributable to Growth**



**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____x_____
Phase 3 (2026-2035)	_____

**Capital Improvement Costs**

Baseline Construction Cost	\$ 439,000
Construction Contingency	\$ 87,800
<b>Estimated Construction Cost</b>	<b>\$ 526,800</b>

**Project Location**

Condition Only Projects - Phase 2 South of Rogue River

Engineering Services, Construction Management and Project Administration	\$ 328,200
<b>Total Capital Improvement Cost</b>	<b>\$ 855,000</b>

ENR CCI = 10,037 20-City Average, July 2015

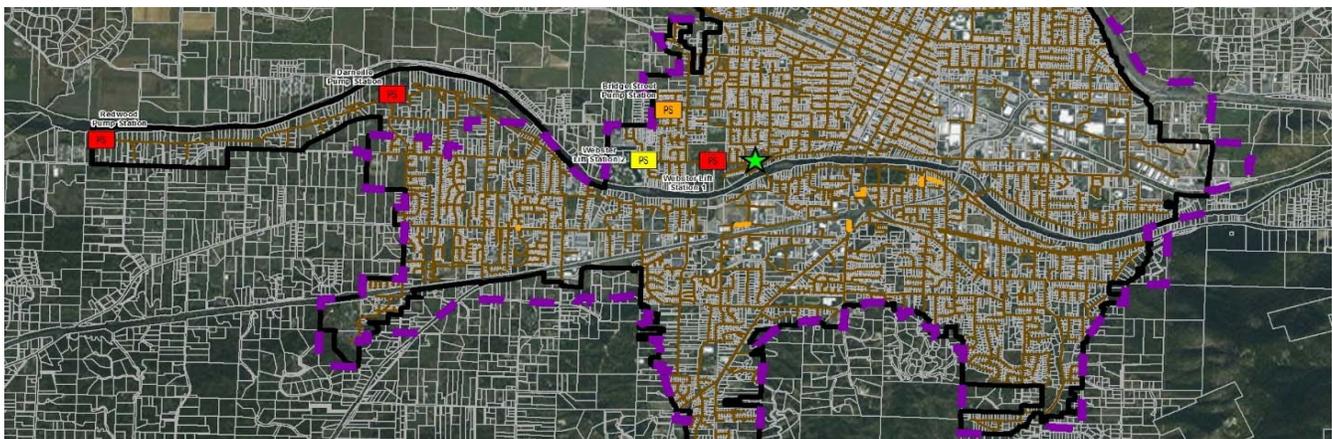
**Project Details**

Repair or replace the identified pipelines for condition purposes in Phase 2 (2021-2025).

**Project Justification**

These pipes located south of the Rogue River have already reached their remaining useful lives or will in the next 20 years and also present significant structural defects and/or maintenance issues.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Modeled Pipelines
Phase 1 (Red line)	Phase 1 (Red square)	Modeled Pump Station (Brown square)
Phase 2 (Orange line)	Phase 2 (Orange square)	WRP (Green star)
Phase 3 (Yellow line)	Phase 3 (Yellow square)	



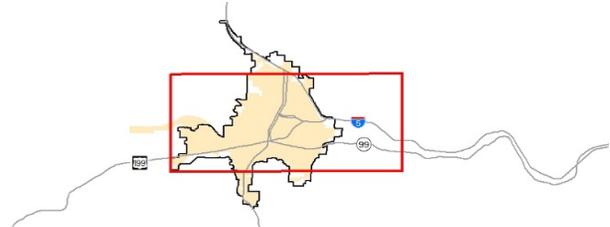


**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT R&R-5**



**Project ID:** Project R&R-5  
**Description:** Condition Only Projects - Phase 3 North of Rogue River  
**Improvements:** P-R&R-5A through P-R&R-5H

**Project Vicinity Map**



**Project Type:** R&R Only

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	_____
Phase 2 (2021-2025)	_____
Phase 3 (2026-2035)	<u>    x    </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 9,791,700
Construction Contingency	\$ 1,958,200
<b>Estimated Construction Cost</b>	<b>\$ 11,749,900</b>

Engineering Services, Construction Management and Project Administration	\$ 7,345,100
<b>Total Capital Improvement Cost</b>	<b>\$ 19,095,000</b>

**Project Location**

Condition Only Projects - Phase 3 North of Rogue River

ENR CCI = 10,037 20-City Average, July 2015

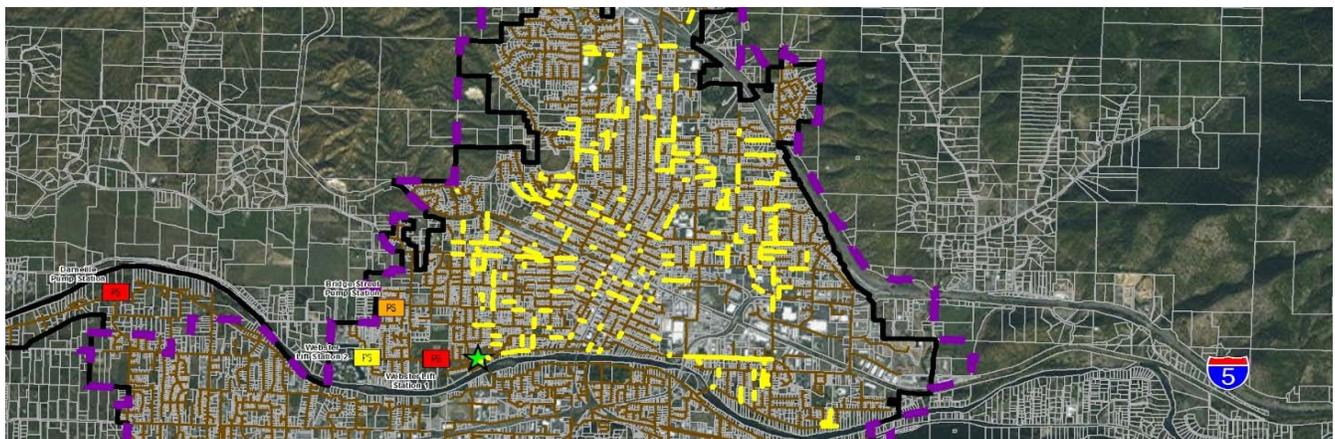
**Project Details**

Repair or replace the identified pipelines for condition purposes in Phase 3 (2026-2035).

**Project Justification**

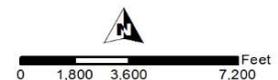
These pipes located north of the Rogue River will be reaching the end of their remaining useful lives in the next 20 years and also already present some structural defects and/or maintenance issues.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Modeled Pipelines
Phase 1 (red line)	Phase 1 (red square)	Modeled Pump Station (orange square)
Phase 2 (orange line)	Phase 2 (orange square)	WRP (green star)
Phase 3 (yellow line)	Phase 3 (yellow square)	





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT R&R-6**



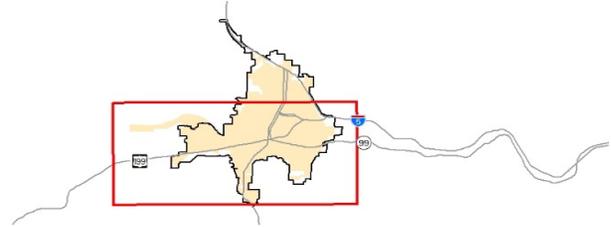
**Project ID:** Project R&R-6  
**Description:** Condition Only Projects - Phase 3 South of Rogue River  
**Improvements:** P-R&R-6A through P-R&R-6G

**Project Vicinity Map**

**Project Type:** R&R Only

**Funding Type:**

**% Attributable to Growth**



**Implementation Phase**

Phase 1 (2015-2020)	___
Phase 2 (2021-2025)	___
Phase 3 (2026-2035)	<u>  x  </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 6,709,400
Construction Contingency	\$ 1,341,900
<b>Estimated Construction Cost</b>	<b>\$ 8,051,300</b>

Engineering Services, Construction Management and Project Administration	\$ 5,032,700
<b>Total Capital Improvement Cost</b>	<b>\$ 13,084,000</b>

**Project Location**

Condition Only Projects - Phase 3 South of Rogue River

ENR CCI = 10,037 20-City Average, July 2015

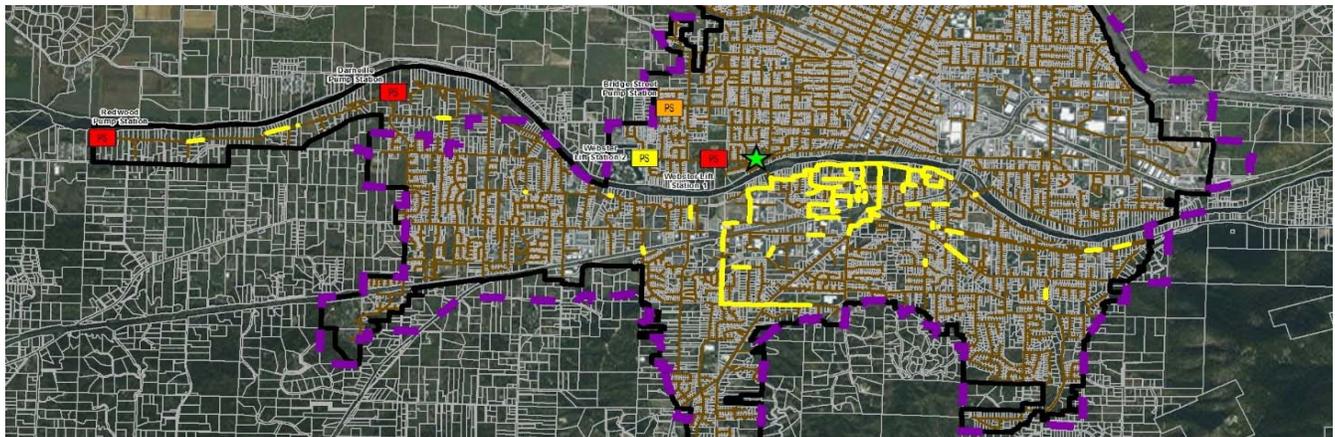
**Project Details**

Repair or replace the identified pipelines for condition purposes in Phase 3 (2026-2035).

**Project Justification**

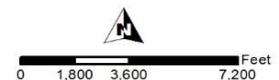
These pipes located south of the Rogue River will be reaching the end of their remaining useful lives in the next 20 years and also already present some structural defects and/or maintenance issues.

**Project Detail Map**



**Legend**

Proposed Pipe Improvements	Proposed Pump Station Improvements	Modeled Pipelines
— Phase 1	■ Phase 1	■ Modeled Pump Station
— Phase 2	■ PS Phase 2	★ WRP
— Phase 3	■ PS Phase 3	





**City of Grants Pass**  
**Wastewater Collection System Master Plan**  
**CAPITAL IMPROVEMENT PLAN PROJECT R&R-7**



**Project ID:** Project R&R-7  
**Description:** Bridge Street Pump Station  
**Improvements:** PS-R&R-7A

**Project Vicinity Map**



**Project Type:** R&R Only

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	<u>  x  </u>
Phase 2 (2021-2025)	<u>      </u>
Phase 3 (2026-2035)	<u>      </u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 14,000
Construction Contingency	\$ 3,500
<b>Estimated Construction Cost</b>	<b>\$ 17,500</b>
Engineering Services, Construction Management and Project Administration	\$ 7,500
<b>Total Capital Improvement Cost</b>	<b>\$ 25,000</b>

**Project Location**

Bridge Street Pump Station

ENR CCI = 10,037 20-City Average, July 2015

**Project Details**

Rehabilitate Bridge Street Pump Station to meet condition standards.

**Project Justification**

The Bridge Street Pump Station has significant capacity and reliability issues related to the pump, guide rail, and level control issues at the pump station.

**Project Detail Map**



**Legend**

<b>Proposed Pipe Improvements</b>	<b>Proposed Pump Station Improvements</b>	<b>Manholes</b>
Phase 1 (Red line)	Phase 1 (Red box with PS)	Manholes (Yellow circle)
Phase 2 (Orange line)	Phase 2 (Orange box with PS)	Modeled Pipelines (Brown line)
Phase 3 (Yellow line)	Phase 3 (Yellow box with PS)	Modeled Pump Station (Brown box with PS)





**City of Grants Pass  
Wastewater Collection System Master Plan  
CAPITAL IMPROVEMENT PLAN PROJECT 27**



**Project ID:** Project 27  
**Description:** General Projects  
**Improvements:** G-1 through G-2B

**Project Vicinity Map**

**Project Type:** General N/A

**Funding Type:**

**% Attributable to Growth**

**Implementation Phase**

Phase 1 (2015-2020)	<u>x</u>
Phase 2 (2021-2025)	<u>x</u>
Phase 3 (2026-2035)	<u>x</u>

**Capital Improvement Costs**

Baseline Construction Cost	\$ 437,000
Construction Contingency	\$ 105,400
<b>Estimated Construction Cost</b>	<b>\$ 542,400</b>
Engineering Services, Construction Management and Project Administration	\$ 207,600
<b>Total Capital Improvement Cost</b>	<b>\$ 750,000</b>

**Project Location**

General Projects

ENR CCI = 10,037 20-City Average, July 2015

**Project Details**

These projects are general projects and include the implementation of an Asset Management Program and the updates to the wastewater collection system master plan.

**Project Justification**

**Project Detail Map**

N/A