

6/23/2015



2015
TO
2016

CAPITAL IMPROVEMENT PLAN



LITTLE PEOPLE'S PARK PONDS 2015
ONE YEAR ANNIVERSARY

Acknowledgements

Technical Advisory Team (TAC)

This is a staff team representing four city departments: Community and Economic Development, Public Works, Finance and the Mayor's Office. Staff include: Jim Brink, David Winship, Jabra Khasho, Terry Priest, Steve Brennan, Brian Rigwood, Steven Sparks, Todd Juhasz, Laura Kelly, Luke Pelz, and David Waffle.

Process Leadership Committee (PCom)

This is a senior management team that includes: Mayor Denny Doyle, City Attorney William Kirby, Finance Director Patrick O'Claire, Community Development Director Cheryl Twete, and Chief Administrative Officer Randy Ealy.

City Council Members

City Council directs policy that impacts the annual Capital Improvement Plan.

Budget Committee and Officers

Allen Dawson, Budget Committee Chair
Karmen Bickel, Budget Committee Secretary
Jose Galindez, Budget Committee
Betty Bode, City Council Member
Lacey Beaty, City Council Member
Dennis Doyle, Mayor

Randy Blake, Budget Committee Vice Chair
Jim McCreight, Budget Committee
Cate Arnold, City Council Member
Mark Fagin, City Council Member
Marc San Soucie, City Council Member

Boards and Commissions

- Planning Commission
- Traffic Commission
- Bicycle Advisory Committee
- Beaverton Committee for Community Involvement (BCCI)
- Visioning Advisory Committee
- Beaverton Chamber of Commerce

A special thanks to CIP Stakeholder Review Committee members: Linda Wilson, Domonic Biggi, Mark Fryburg, Brian Walker, Linda Rose, Paul Cohen, Richard Pickett, Jose Galindez, Ernie Conway, and Jane Yang



INSTALLATION OF STORM SYSTEM ON WESTGATE DR

CITY OF BEAVERTON
CAPITAL IMPROVEMENTS PLAN
FOR FY 2015-16 THROUGH FY 2019-20



SETTING BEAMS ON WESTGATE DR BRIDGE

Table of Contents

Introduction	4-13
Project Index for FY2015-16 Projects	15-16
CIP Projects Completed in FY 2014-15.....	17
Financial Plan	18-28
FY 2015-16 Project Descriptions (Project Data Sheets)	
• Transportation & Civic Projects.....	31-64
• Street Rehabilitation Projects.....	65-66
• Water Projects.....	67-94
• Sanitary Sewer Projects.....	95-104
• Storm Drainage Projects.....	105-120
FY 2016-17 through FY 2019-20 Project Lists	
• Transportation & Civic Projects.....	122-125
• Street Rehabilitation Projects.....	125-129
• Water Projects.....	130-135
• Sanitary Sewer Projects.....	136-138
• Storm Drainage Projects.....	140-144
• CIP Project Overview Maps	145

Introduction to the FY2015-16 CIP

A. **Projects Selected for Inclusion** - At this time, with a few exceptions, all the projects included in the FY 2015-16 CIP are carryovers from FY 2014-15. The primary reason is insufficient funding to take on new projects. A secondary reason is to maintain a balance between available project engineers and managers and project workload.

The new projects in FY 2015-16 are as follows:

Civic	CIP 3521 Creekside Pilot Project #1 (Francis Triangle)
Transportation	CIP 3323 East-West Collector Connection at Loon Dr
Water	CIP 4083 Duncan Ln (Jamieson to the West) Waterline Upgrade
	CIP 4127 Future Sexton Mountain Reservoir Site Preparation
	CIP 4128 TVWD Cooperative Water Projects
	CIP 4129 WSWD Cooperative Water Projects
Sanitary	CIP 6006 Erickson Trunk Upsizing (6th St - 10th St)
	CIP 6093 Royal Woodlands South Utility Improvements
Storm	CIP 8128 Jamieson Area Storm Drainage Improvements
	CIP 8130 3805-3825 SW 144th Ave Duplex Removal and Wetland Restoration

B. CIP Stakeholder Review Committee (SRC) – In the runup to the FY2015-16 CIP, the City convened a CIP Stakeholder Review Committee to evaluate and prioritize public nominated projects as well as a number of projects begun in FY2014-15. The SRC was created to ensure collaboration with the public in order to implement the City Council's CIP priorities in accordance with Resolution 4210. Draft 1 does not include all or part of the SRC's highest priority sidewalk project, Canyon Ln (87th Ave-Canyon Rd), because of insufficient funding.

C. CIP Coordination – Over the past three years staff has made a concerted effort to include all pertinent staff in the formation of the annual CIP. This year with the advent of the CIP Stakeholder Review Committee public involvement in project selection has grown and will continue to grow as staff and committee members figure out how to best make recommendations on project selection and associated funding.

D. CIP Format – Staff is considering changing the format for the presentation of Civic and Transportation projects within the CIP. CIP 3323 is an example of the proposed format.

E. CIP Introduction – Staff is considering a makeover of the introduction to the CIP. The information that follows is a standard CIP information that will be included in one form or another in Draft 2.

Funding Strategies for Beaverton's CIP

This section provides an overview of the limitations and opportunities to fund current and future capital improvement projects for the City of Beaverton. It may be a somewhat complex and interwoven set of funding sources applied to a particular project or a straightforward, single source of financing that results in a particular pipe or facility. For definition purposes, capital projects are infrastructure with a cost of at least \$5,000 having a useful life of more than one year. This definition is consistent with the city's policies for fixed asset accounting.

A. Restricted Funds

There are many current and potential sources of funding for financing capital improvements. The fund accounting structure of local government places restrictions on the mixing of funding sources and requires explicit transfers among funds for some projects as authorized by the City Council. Many of them are "Special Revenues" due to constitutional, ordinance, statutory restrictions or grant conditions. For example, gas taxes can be only used for the repair and maintenance of streets and roads.

B. Finite Resources

The resources of the City are somewhat limited. The lack of new development during the period 2009-2012 reduced the demand for new infrastructure as well as the taxes and fees (i.e. SDCs) that regularly accompany new construction. Currently, development activity within the City has shown a modest improvement. The CIP process will be used to describe the revenue trends of current sources with projections for the future. The notes below represent the observations of the CIP staff.

- The City plans to apply for a TIGER VII grant for Canyon Road streetscape improvements similar to two previous applications. If the TIGER grant is awarded, it will cause a significant diversion of funds from CIP maintenance needs. The required level of **matching funds is estimated at \$5-\$10 million dollars and can come from the General Fund or, as appropriate, the Storm Drain, Street, Street Lighting or Water Funds. It is likely to result in temporarily reduced street overlays and maintenance work as we meet TIGER obligations.**
- Funding for transportation roadway and bridge projects can support only a handful of projects. After the completion of CIP 3316 Rose Biggi Ave Extension (Crescent St to Hall Blvd), CIP 3192 Hocken Ave Bridge and Street Improvements at Beaverton Creek, CIP 3408 Hocken Ave (RR - TV Hwy) Widening, and CIP 3321 Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment, there will be insufficient funds available to accomplish additional transportation projects. Transportation funding from other sources such as State and Federal grants continues to be more competitive.
- The CIP Stakeholder Review Committee demonstrated enthusiastic support for neighborhood sidewalk projects; however, funding for sidewalk and path projects continues to be insufficient to meet demands.
- Funding from the Street Fund beyond \$250,000 per year in support of path and sidewalk projects results in reduction of the annual pavement rehabilitation (overlay) program.
- For several years both the water capacity program (3620) and the water maintenance program (3701) have not been able to keep pace with the number of pipe rehabilitation and replacement projects funded for sanitary sewer and storm drainage infrastructure.
- Both the sanitary sewer extra capacity (3811) and maintenance (3850) program are now not able to sustain the number of annual sanitary sewer projects completed since 2006. Over the past nine years, the City has completed two major utility rehabilitation and replacement projects per year. Beginning in FY 2015-16, the number will be reduced to one every two years.
- The amount of money available to be transferred from the General Fund for either Civic Projects or in support of other projects is limited by pressure to retain a constant property

tax rate. The City's day-to-day cost of law enforcement, library and general administrative services consume most of the resources of the General Fund.

- The Storm Drain Fund has sufficient resources for capital projects, yet faces a high degree of uncertainty as environmental regulations concerning storm water quantity and increase.

C. Intergovernmental Partners and Their Role in Financing Capital Projects

Beaverton interacts and cooperates with a wide variety of partners in developing infrastructure. The relationships for specific projects are usually defined in inter-governmental agreements that allow for cost allocation and accountability. Some of the partners are:

Clean Water Service (CWS)
Joint Water Commission (JWC)
Beaverton School District
Tualatin Valley Fire & Rescue (TVF&R)
Tualatin Hills Park & Recreation District (THPRD)
Oregon Department of Transportation (ODOT)
Washington County Cooperative Library System
Washington County
Other Communities
Tri-Met
Metro
Other State of Oregon Departments
Beaverton Urban Redevelopment Agency

D. Master Plans

There are any number of Master Plans that are developed or updated in order to determine capital project needs, priorities, and cost estimates for specific purposes such as Water, Sanitary Sewer, Transportation, and Creekside. These Master Plans assist in identifying projects for each year's CIP and subsequent out years.

Future Needs

Residents and citizen groups may recommend projects to be considered in future years Capital Improvement Project budgets by sending their requests to the City's Public Works Department through the City website at <http://apps.beavertonoregon.gov/CapitalProjects/projectrequestform.aspx>. An example request is on the following page.

Upon receipt, City staff will evaluate each request and respond to the requestor in writing with the course of action proposed by the City. The City is particularly interested in recommendations that help eliminate or reduce the risk of personal injury or damage to private property such as perennial flooding problems.

The FY 2015-16 CIP budget includes maintenance and repair projects that address all known and unreasonable risks to private property. The applicable projects for which funds have been budgeted in FY 2015-16 include 6090, 6093, 8098A, 8098B, 8119, 8128, and 8130.

Additional information on the City's Capital Improvements Plan is available on the City's website (www.beavertonoregon.gov/?nid=226) via the link to the City Projects/Capital Improvement page.

From: _____
Sent: Thursday, March 05, 2015 10:42 AM
To: Mailbox Engineering; Jim Brink
Subject: CIP Nomination

Capital Project Nomination

Name: _____
Phone: _____
Email: _____

What needs to be improved?
- Street

185th S. of Farmington Rd. has several holes/breaks that have appeared since sewer work was completed last year and quickly getting worse. Several smaller streets in the area were repaved last year but not 185th. Will this section be repaved this summer? Thank you.

Location: 185th South of Farmington Road.

Why should this project be completed and what could be improved in doing so?
Public Safety

Overview of CIP Accomplishments

On page 17 of the FY 2015-16 CIP there is a list of twelve (12) CIP projects completed in FY 2014-15.

FY 2015-16 Projects and Their Funding Sources

This section provides highlights of the projects included in this year's CIP. An index to the projects and their individual data sheets are also provided.

Civic

Projects in this program continue to be connected to implementation of the Civic Plan adopted in April 2011. These projects are funded by a combination of City funds from the General Fund, Street Fund, TIF Fund and Storm Fund and grant funds.

FY 2015-16 Civic Projects with Significant Public Impact

<u>Project No.</u>	<u>Project Name</u>
3320	Hall Creek Water Quality and Pathway (114th-117th) Enhancement
3514	Surface Parking at 1st and Main
3515B	Broadway Streetscape Improvements Phase 3
3521*	Creekside Pilot Project #1 (Francis Triangle)

* New project

Transportation Program

Transportation Program Snapshot

The City's transportation system consists of approximately 222 miles of streets, 30 bridges, 13 concrete box culverts, 6 foot bridges and 5.3 miles of shared use paths.

Past CIP projects in this program have ranged from simple sidewalk improvements to new bike lanes, street rehabilitation projects, street beautification projects, street widening projects, intersection safety improvements, new traffic signals, and multi-lane street extensions that include bridges, underground public and private utilities, signalization, street lighting, and other improvements.

Funding Transportation improvements are funded from a combination of sources. Traffic Impact Fees (TIF), and its replacement, the Transportation Development Tax (TDT), may be used to fund capacity improvements to certain arterial and collector roadways listed in the countywide TIF and TDT ordinances. Capacity improvement projects include CIP 3192, 3316, 3321, 3323, and 3408

The County's Major Streets Transportation Improvement Program (MSTIP) continues to fund improvements to selected regional arterial and collector roadways throughout the County and occasionally within City limits such Farmington Rd (see CIP 3302), Walker Rd (see CIP 5088 and 5089), and Jenkins Rd and 158th Ave (see CIP 5090).

The Street Fund, which is funded by the City's share of State and County motor vehicle fuel taxes and registration fees, may be used to fund improvements to public roadways; however, nearly all Street Fund revenues are needed to fund street maintenance needs, including the pavement rehabilitation/resurfacing program.

Since 1997 the Traffic Enhancement (TE) Program has used monies from a 3-year serial levy approved by Beaverton voters to fund new safety projects, signal improvements, and traffic calming projects. This program will continue to complete projects approved by the Traffic Commission and Council until its revenues from the serial levy are depleted. Because TE revenues from the serial levy will soon be used up, a Traffic Calming Program (CIP 3189) has been established and funded from the Street Fund at \$25,000 per year beginning in FY2011-12; however, this year there is insufficient funding because of other priority projects.

Various grant programs provide funding for safety, capacity, bicycle, and pedestrian improvements. Allocation of most Federal grant funding and some State grant funding is coordinated through Metro and ODOT. Most grant programs require that the City provide funding for a portion of the project costs. Private development projects may also contribute funding toward a CIP project. Federal aid projects are CIP 3316 Rose Biggi Ave Extension (Crescent St to Hall Blvd), CIP 3407 Crescent Connection Multi-Use Path, and CIP 3519A Canyon Rd Intersection Improvements, MTIP . A Metro Nature in the Neighborhoods grant from Metro fund provides a portion of CIP 3320 Hall Creek Water Quality and Pathway (114th-117th) Enhancement as well as CIP 3521 Creekside Pilot Project #1 (Francis Triangle).

Program 3226, Miscellaneous Transportation Improvement Projects, is funded from the Street Fund and includes small projects that were not identified specifically in the Transportation Element of the Comprehensive Plan. This program provides a way for the City to respond promptly to resolve safety problems or to provide the City's matching share on small grants that cannot be anticipated at the time of adoption of the CIP. This year there is insufficient funding in the Street fund to support this project.

Also included in the CIP is the Street Rehabilitation program at \$800,000, which finances major maintenance on the 220 miles of City streets. The overlay program is down 47% from FY2014-15 because of the need for the Street fund to help pay for pedestrian, bike, path and other non-capacity

projects. This program designates the locations of and proposed funding for street repaving, slurry seals, crack sealing and joint sealing of pavement, and replacing concrete sidewalks and sidewalk ramps. In order to continue coordination of street rehabilitation improvements with underground replacement and expansion projects for water, sewer, and storm drainage, the Street Rehabilitation program is shown in the CIP and identifies the street segments to be rehabilitated in the coming fiscal year. Sometimes emergencies require unscheduled excavation of streets, but it is the City's goal to carefully plan for replacement of underground utilities prior to constructing surface improvements.

FY 2015-16 Transportation Projects with Significant Public Impact

<u>Project No.</u>	<u>Project Name</u>
3192	Hocken Ave Bridge and Street Improvements at Beaverton Creek
3223	Traffic Enhancement Projects
3302	Farmington Rd (Hocken-Murray), MSTIP 3D
3316	Rose Biggi Ave Extension (Crescent St to Hall Blvd)
3321	Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment
3323*	East-West Collector connection at Loon Dr
3407	Crescent Connection Multi-Use Path
3408	Hocken Ave (RR-TV Hwy) Widening
3410	Denney Rd Multi-Use Path
3518	Canyon Rd Alternative Bike Network
3519A	Canyon Rd Intersection Improvements, MTIP
5085	Cascade Ave at Cascade Plaza Parking Structure Pedestrian Crossing Improvements
5088	Walker Rd (Murray Blvd - 173rd Ave), MSTIP3D
5089	Murray/Walker Intersection & Replacement Bridges, MSTIP 3D
5090	Jenkins Rd (158th Ave – Murray Blvd) & 158th Ave (Baseline Rd – Merlo LRT), MSTIP 3D

* New project

Drinking Water Program

Drinking Water Program Snapshot

The City's drinking water system consists of approximately 280 miles of pipe, five in-town storage reservoirs, four aquifer storage and recovery wells, and part ownership of the Joint Water Commissions water treatment, storage and transmission facilities.

The capital improvements listed for the Water Program are based on the 1991 Water System Facility Plan (master plan) and 2009 Master Plan, replacement/renewal projects developed from operation and maintenance history maintained by City water forces, and City participation in Joint Water Commission (JWC) projects.

The City of Beaverton supplies water to about 69,000 people or 76 percent of the total 93,395 residents who live within the City limits. The remaining 24 percent of residents in Beaverton are supplied water by the Tualatin Valley Water District (TVWD), the West Slope Water District and the Raleigh Water District. The primary source of Beaverton's City water supply is from the JWC water treatment plant located south of Forest Grove. The City owns a share in the water treatment plant allowing the City up to 18.75 million gallons per day (MGD) of treated drinking water.

The City of Beaverton's Drinking Water Program includes both "increased-capacity" projects and "replacement/renewal" projects. Within the City's water distribution system there are five in-town water storage reservoirs, with a total storage volume of 28.25 million gallons (the City's owns an

additional 10 million gallons of JWC storage near the water treatment plant located south of Forest Grove). With a current average City water demand of 6.85 MGD, the City has the equivalent of 14-average-demand-days supply of drinking water using a combination of local above-ground reservoirs, and groundwater-supply available from the City's underground aquifers storage wells.

The City's water distribution system, separate from the JWC supply system, consists of approximately 282 miles of pipe, ranging from 2 inches to 36 inches located throughout the City. The City's water distribution system contains four pumping stations. These pumping stations lift water from the largest water service pressure zone on the valley floor to the nine other higher elevation water pressure zones and two upper elevation water storage reservoirs within the City's water service area. The City's on-going replacement of old system components and expansion of the water infrastructure system will provide improved water service and fire protection to existing City water customers and increased water supply to ensure public health and accommodate expected growth.

Additional information on the City's water system is contained in the City of Beaverton 2014 Drinking Water Quality Report available on the City's website.

New Water Supply and Joint Water Commission Projects

The JWC water treatment plant can produce up to 75 MGD of treated drinking water. The City of Beaverton owns a 25 percent share of the JWC water treatment plant capacity, equivalent to 18.75 MGD of drinking water. As described above, the City participates in the cost of upgrading and maintaining the JWC water treatment plant, pipelines and associated structures (CIP 3611). The City owns yearly water rights of up to 1.3 billion gallons (4,000 acre-feet) in Scoggins Reservoir/Hagg Lake (owned by the US Bureau of Reclamation) and 1.4 billion gallons (4,300 acre-feet) in Barney Reservoir. Water originating from these two reservoirs is the source of most of the City's raw water (prior to treatment) during the summer.

Aquifer Storage and Recovery (ASR)

The City's 2009 water master plan identified needed increased capacity improvements to provide safe, dependable water service to the City's water customers in conjunction with the build-out of vacant land. The plan recommended improvements in the water distribution system, the storage and transmission system, and the water treatment system.

Over the last 16 years, the City has allocated considerable funding to ASR. ASR Well No. 1, originally constructed as a conventional groundwater well in 1945, was refitted for ASR use in 1997, having a peak pumping capacity of 1 MGD. ASR Well No. 1 reached the end of its useful life three years ago and is now out of service. The current total peak pumping capacity of the remaining ASR Well Nos. 2 and 4, both located at the Sorrento Water Works Facility, is 5 MGD. From 1999 to date, the City has pumped out more than 3.57 billion gallons of potable water stored in the three ASR wells to help meet peak summer season water demand.

ASR Well No. 5 is proposed to replace and offset the loss in ASR capacity from existing ASR No. 1 and add new pumping capacity of an additional 1 million gallons per day of potable water. The proposed ASR well and pumping station will have a total peak-capacity of 2 million gallons per day. Construction of ASR Well No. 5 is planned at the existing Sorrento Reservoir and Pump Station site owned by the City of Beaverton. Once completed, ASR Wells No. 5 and No. 6 and the other two existing ASR wells will have a combined capacity of 7 MGD.

The current estimated single-day summertime peak demand for the City is near 17 MGD. The current total peak pumping capacity of ASR Well Nos. 2 and 4 is 5 mgd, with an underground storage capacity of about 450 MG. In 2013, 221 MG of stored water and native groundwater were recovered (pumped into the water system) from the ASR wells to help meet summer customer drinking water consumption. Stored water pumped out of the City's three ASR groundwater wells

made up nearly 9 percent of the City's total annual drinking water distributed to customers in 2012. These ASR wells act as underground water storage reservoirs to supply water during the summer season. Water supplied by the City's ASR wells helps smooth out the summer's water demand spikes through the 20-mile long transmission mains and from the JWC water treatment plant.

Water Storage

In 2008 an engineering study concluded that growth in water demand in the City's upper-elevation water service area will exceed the capacity of the existing 5.5 million gallon reservoir on Cooper Mountain (Cooper Mountain Reservoir No. 1). Approximately 15,000 of the total 70,000 residents served by Beaverton's water system receive drinking water from the existing upper-elevation water storage reservoir, Cooper Mountain No. 1. With the annexation of the 544-acre South Cooper Mountain area and growth in other upper-elevation areas of Beaverton, an estimated additional 21,500 people may be added to the City's upper elevation water service area by 2040. The City continues to pursue the installation of a second 5 million gallon reservoir on Cooper Mountain (Cooper Mountain Reservoir No. 2 can be found in the CIP in the water system projects section).

Funding

The Drinking Water Program is funded by: 1) the Water Construction Fund (505) that obtains revenue from Water System Development Charges (SDCs) for "increased-capacity" projects; 2) the Water Debt Service Fund (funded by the proceeds of the water revenue bonds); and, 3) the Water Fund (501) that obtains revenue from water sales, water connection permits, and fees for "replacement/renewal" projects.

FY 2015-16 Water Projects with Significant Public Impact

<u>Project No.</u>	<u>Project Name</u>
3635	JWC Projects
4021D	Aquifer Storage and Recovery (ASR) Well No. 5
4021F*	Aquifer Storage and Recovery (ASR) Well No. 6
4058A	Cooper Mountain Reservoir #2 (5 MG)
4083*	Duncan Ln (Jamieson to the West) Waterline Upgrade
4107	Meridian Pump Station Upgrade
4109	Denney Rd (105th – Rollingwood and King Blvd-Belaire Dr) 12-inch Waterline
4111	Hyland Way Ct Waterline Replacement
4112	Hyland Park Ct Waterline Replacement
4120	Taralynn Ave (Allen Blvd - EOP) Waterline Replacement
4127*	Future Sexton Mountain Reservoir Site Preparation
4128*	TVWD Cooperative Water Projects
4129*	WSWD Cooperative Water Projects

* New project

Sanitary Sewer Program

Sanitary Sewer Program Snapshot

The City's sanitary sewer system consists of approximately 278 miles of pipe ranging in size from 6 to 21 inches and 7,897 manholes.

The Sanitary Sewer Program is based on the City of Beaverton January 2004 Sanitary Sewer Collection System Master Plan, the Clean Water Services 2009 Sanitary Sewer Master Plan Update, and the City's ongoing maintenance history and television scan (internal inspection) reports. With

visual video images and written maintenance information, City staff identify and assess priorities for sanitary sewer projects needed to replace sections of the sewer system where the continued cost of maintenance of pipes and manholes would be greater than for replacement. The Sanitary Sewer Program includes projects in two main categories: "increased-capacity" projects for lines identified in the Master Plan as under capacity, and "replacement" projects for lines that have deteriorated past the reasonable point of repair. Planned CIP projects are intended to reduce infiltration and inflow of storm water and ground water into existing sanitary sewers, to reduce deficiencies in older sections of the sanitary sewer collection system, and to build extra-capacity in the system (upsized underground pipes and manholes) to accommodate new development and redevelopment.

Funding

The Sewer Program is funded by the Sewer Fund (Fund 502). "Increased-capacity" projects are financed from System Development Charges (SDCs) and "replacement/renewal" projects are financed from monthly sewer service charges.

FY 2015-16 Sanitary Sewer Projects with Significant Public Impact

<u>Project No.</u>	<u>Project Name</u>
6000	Sewer System Mapping/Master Plan Update
6006*	Erickson Trunk Upsizing (6 th St-10 th St), CWS R-110
6083	South Cooper Mountain Infrastructure Study
6089	Barrows Rd Sanitary Sewer Trunk Upsizing
6090	Spellman Dr Sanitary Sewer Improvements
6093*	Royal Woodlands South Utility Improvements

* New project

Storm Drainage Program

Storm Drainage
Program
Snapshot

The City's storm drainage system consists of approximately 242 miles of pipe, 5210 manholes, 9174 catch basins, and 215 public drainage facilities such as detention ponds, water quality facilities, and others.

The Storm Drainage Program is based on the 1994 Storm Drainage Master Plan, engineering consultant studies of specific streams and watersheds in Beaverton such as the Central Interceptor study, the Westside Interceptor study, Blakeney Pond (Bel Aire Creek) Drainage study, the Beaverton Eastside Drainage study, the Beaverton Creek Floodplain Restudy, the Clean Water Services Healthy Streams Plan, and the City's ongoing maintenance history and television scan (internal inspection) reports. The 1994 master plan and the aforementioned studies and inspection reports identify the improvements that are needed to convey or detain a 25-year storm. The priority for the design and construction of the associated improvements is based on the highest potential to safeguard public and private property from damage due to storm events.

Funding

Storm drainage improvements are funded by the Storm Drain Fund (Fund 513) through utility fees set out in the Beaverton Code. "Increased-capacity" improvements are financed through SDCs, of which there are three: storm water conveyance, storm water quantity control, and storm water quality control. "Maintenance and replacement" projects are financed by a \$2 per month storm drain surcharge from all customers. Surcharge revenue is segregated from other storm drain

revenues to be used for the purposes of replacing, renewing and improving the storm drainage system.

FY 2015-16 Storm Drainage Projects with Significant Public Impact

<u>Project No.</u>	<u>Project Name</u>
8098A	Storm Drainage Improvements at Dover Ln near Oleson Rd (Dover South)
8098B	Storm Drainage Improvements at Dover Ln near Oleson Rd (Dover North)
8104A	Pretreatment Retrofit: 6775 Murray Blvd
8104B	Pretreatment Retrofit: 10200 Murray Blvd
8114	Creek Debris Screen Replacement
8119	141st Ave (Millikan Way to Vernier Driveway) Storm Conveyance Pipe
8128	Jamieson Area Storm Drainage Improvement
8130	3805-3825 SW 144th Ave Duplex Removal and Wetland Restoration

* New project

THIS PAGE LEFT INTENTIONALLY BLANK

PROJECT INDEX for FY 2015-16 PROJECTS

This index relates the Project Names and Funding Sources in the Financial Plan to the Project Numbers and Project Names in the FY2015/16 Project Description Section of the CIP.

<u>Project Name</u>	<u>Project No.</u>	<u>Funding Source(s)</u>	<u>Page No.</u>
1 st and Main Surface Parking	3514	001	53
1 st and Lombard Utility Undergrounding	3326	3307	48
102 nd Ave South of Heather Storm Drain Improvements	8112	3950	113
10200 Murray Blvd Stormwater Pond Remodel	8104B	3917	112
141 st Ave (Millikan Wy to Vernier Driveway) Storm Conveyance Pipe	8119	3915	115
3805-3825 SW 144th Ave Duplex Removal and Wetland Restoration	8130	3950	118
6775 Murray Blvd Stormfilter Retrofit	8104A	3917	111
Aquifer Storage and Recovery (ASR) Well No. 5	4021D	3620	72
Aquifer Storage and Recovery (ASR) Well No. 6	4021F	3620	73
Aquifer Storage and Recovery (ASR) Well No. 3 (Non Potable Water)	4021G	3620	74
Barrows Rd Sanitary Sewer Trunk Upsizing	6089	3811, 3950	102
Broadway Streetscape Improvements (Watson Ave-Hall Blvd)	3515B	001	54
Canyon Rd Intersection Improvements, MTIP	3519A	001,101, Federal	56-58
Canyon Rd Alternative Bike Network	3518	001	55
Cascade Ave at Cascade Plaza Parking Structure Pedestrian Crossing Safety Improvements	5085	3223	60
Cooper Mountain Reservoir #2 (5 MG)	4058A	3620	75
Creekside Pilot Project #1 (Francis Triangle)	3521	3701, 3950, Metro, Grant	59
Crescent Connection Shared Use Path	3407	001, 101, Federal	49-50
Denney Rd Shared Use Path	3410	101	52
Denney Rd (105th Ave - Rollingwood Dr and King Blvd - Belaire Dr) 12-inch Waterline	4109	3620, 3701	81
Dover Ln South Near Oleson Rd Utility Improvements	8098A	3950	109
Dover Ln North Near Oleson Rd Utility Improvements	8098B	3950	110
Duncan Ln (Jamieson to the West) Waterline Upgrade	4083	3701	77
Erickson Trunk Sewer Upsizing (6 th St -10 th St), CWS R110	6006	3811, CWS	100
Farmington Rd (Hocken-Murray), MSTIP 3D	3302	114, 3307, 3811, CWS, WASHCO	41-42
Hall Creek Water Quality and Pathway (114 th -117 th) Enhancement	3320	101, 3950, Metro	45
Hocken Ave Bridge & Street Improvements at Beaver Creek	3192	114, 3620, 3850, 3915, 3620, CWS, TVWD	36-38
Hocken Ave (RR-TV Hwy) Widening	3408	114, 3620	51

<u>Project Name</u>	<u>Project No.</u>	<u>Funding Source(s)</u>	<u>Page No.</u>
Hyland Park Ct Waterline Replacement	4112	3701	83
Hyland Way Ct Waterline Replacement	4111	3701	82
Jamieson Area Storm Drainage Improvements	8128	3915	117
Jenkins Rd (158th Ave-Murray Blvd) & 158th Ave (Baseline Rd-Merlo LRT), MSTIP 3D	5090	3950, WASHCO	63
JWC Capacity Projects	3635	3611	71
Loon Dr East-West Collector Connection	3323	114	47
Meridian Pump Station upgrade	4107	3620	80
Murray/Walker Intersection & Replacement Bridges, MSTIP 3D	5089	3950, WASHCO	62
Rose Biggi Ave Extension (Crescent St to Hall Blvd)	3316	114, 3620, 3811	43-44
Royal Woodlands South Utility Improvements	6093	3701, 3850, 3950	104
Sexton Mountain 15MG Reservoir Solar Project	4088A	3701, Grant	78-79
Sexton Mountain Pump Station Upgrade, Phase 2	4078B	3701	76
Sexton Mountain Future Reservoir Site Preparation	4127	3701	87-88
South Cooper Mountain Infrastructure Study	6083	3620, 3811	101
South Cooper Mountain Storm Conveyance	8125	3915	116
Spellman Dr Sanitary Sewer Improvements	6090	3850	103
Street Rehabilitation Program	NA	101	66
Taralynn Ave (Allen Blvd - EOP) Waterline Replacement	4120	3701	84
Traffic Enhancement Projects	3223	001	40
Tualatin Valley Water District Cooperative Water Projects	4128	3701	89
Walker Rd (Murray Blvd-173 rd Ave), MSTIP3D	5088	3950, WASHCO	61
Washington Square Adaptive Signal System	3201	Federal, WASHCO	39-40
Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment	3321	114	46
West Slope Water District Cooperative Water Projects	4129	3701	90
Willamette River Supply System	4126	3643	85-86

<u>Funding Source</u>	<u>Purpose</u>
001	General Fund
101	Street Maintenance (Replacement/Renewal)
111	Street Lighting
114	Street Increased Capacity
3307	Utility Undergrounding
3620	Water Increased Capacity
3701	Water Maintenance (Replacement/Renewal)
3811	Sanitary Increased Capacity
3850	Sanitary Maintenance (Replacement/Renewal)
3915	Storm Drainage Increased Capacity
3916	Storm Drainage Water Quantity
3917	Storm Drainage Quality
3950	Storm Drainage Maintenance (Replacement/Renewal)

**CITY OF BEAVERTON
CIP PROJECTS COMPLETED
IN FY 2014-15**

Project No.

Project Name

CIVIC

3515A

Broadway Streetscape Improvements Phase 2 – Lighting improvement on Broadway from Watson Ave to Cedar Hills Blvd

3520

Downtown Beaverton Wayfinding, Phase 1

TRANSPORTATION

None

SANITARY SEWER

3316

Rose Biggi Ave Extension (Crescent St to Hall Blvd)

6044

Royal Woodlands East Utility Improvements

6088

Scholls Ferry Rd to Barrows Rd Sanitary Sewer Extension, Phase 2

WATER

3316

Rose Biggi Ave Extension (Crescent St to Hall Blvd)

4021F

ASR 6 Test Well

4110

Larson St (Erickson Ave - EOP) Waterline Replacement

4114

Maplecrest Ct (Rollingwood - EOP) Waterline Replacement

4115

Whisper Ct Waterline Replacement

4119

Cranberry Ct (Glenbrook Rd-End) Waterline Replacement

6044

Royal Woodlands East Utility Improvements

STORM DRAINAGE

3316

Rose Biggi Ave Extension (Crescent St to Hall Blvd)

6044

Royal Woodlands East Utility Improvements

8095

Hart Rd (Murray-Sorrento) Traffic Calming Raingardens

8112

102nd Ave South of Heather Storm Drain Improvements

**CITY OF BEAVERTON
CAPITAL IMPROVEMENTS PLAN (CIP)
FOR FY 2015-16 THROUGH FY 2019-20**



LITTLE PEOPLE'S PARK PONDS

FINANCIAL PLAN

CONTENTS:

- Civic, Transportation & Street Projects
- Water Projects
- Sanitary Sewer Projects
- Storm Drainage Projects

City of Beaverton
CIP Financial Plan - Transportation & Civic Projects
FY 2015-16 Recommended

Projects			Funding Sources					Total for Fiscal Year
			General Fund	101 Street		114		
				Const.	Overlay	TIF Fund	TDT	
Estimated Balance, 07-01-2015			140,563	1,727,469		2,092,462	5,013,641	8,974,135
Proposed Additional Resources			884,448	153,901	800,000	-	850,895	2,607,527
Total Available in FY 2015-16			1,025,011	1,881,370	800,000	2,092,462	5,864,535	2,607,527
CIP # Proj #								
Street Capital Improvement Projects:								
3189	3189	Traffic Calming						-
3192	3192	Hocken Ave Bridge and Street Improvements at Beaverton Creek				292,315	1,149,645	1,002,040
3220	3220	Metro NIN Projects						275,130
3223	3223	Traffic Safety Improvements	141,863					141,863
3302	3302	Farmington Rd (Hocken-Murray), MSTIP 3D				-		252,000
3302	3307	Utility Undergrounding - Farmington						140,000
3316	3316	Rose Biggi Ave Extension (Crescent St to Hall Blvd)				42,000		42,000
3320	3320	Hall Creek (114th-117th) Pathway Enhancement		113,348				175,652
3321	3321	Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment				147,000		147,000
3323	3323	East-West Collector Connection at Loon Dr				297,000		297,000
3407	3407	Crescent Connection Shared Use Path	218,148	-		218,147		762,705
3408	3408	Hocken Ave (RR Tracks-Canyon Rd) Widening				1,096,000		1,096,000
3410	3410	Denney Rd Shared Used Path		125,000				125,000
Total Capital Project Fund (310)			360,011	238,348	-	2,092,462	1,149,645	2,607,527
Street Overlay & Maintenance Projects:			800,000					800,000
Facility, Civic & Cultural Projects:								
3514	3514	1st St & Main Parking Lot	265,000					265,000
3515	3515B	Broadway Streetscape Improvements (Watson Ave -Hall Blvd)	170,000					170,000
3518	3518	Canyon Rd Alternative Bike Network						-
3519	3519A	Canyon Rd Intersection Improvements, MTIP	230,000	230,000				460,000
			665,000	230,000	-	-	-	895,000
Total Project Cost FY 2015-16			1,025,011	468,348	800,000	2,092,462	1,149,645	2,607,527
Contingency \$800K, and Reserves \$80K + 792K			(1,674,213)					
Estimated Ending Balance 6-30-2016			-	(261,191)	-	0	4,714,890	4,453,700

Note: Shaded projects are to be completed by city workers, application or installation of materials only.

City of Beaverton
CIP Financial Plan - Transportation & Civic Projects
FY 2016-17 Projected

Projects			Funding Sources					Total for Fiscal Year	
			General Fund	101 Street		114			Grants or Storm/Water Fund
	Const.	Overlay		TIF Fund	TDT				
Estimated Balance, 07-01-2016			-	-	-	-	4,714,890	4,714,890	
Proposed Additional Resources			451,000	884,000	1,000,000	-	2,000,000	1,000,000	5,335,000
Total Available in FY 2016-17			451,000	884,000	1,000,000	-	6,714,890	1,000,000	10,049,890
CIP #	Proj #								
Street Capital Improvement Projects:									
3189	3189	Traffic Calming		25,000					25,000
3192	3192	Hocken Ave Bridge and Street Improvements at Beaverton Creek					50,000		50,000
3220	3220	Metro NIN Projects							-
3223	3223	Traffic Safety Improvements	-						-
3226	3226	Misc Transportation Improvements		60,000					60,000
3302	3302	Farmington Rd (Hocken-Murray), MSTIP 3D					126,000		126,000
3321	3321	Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment					95,000		95,000
3408	3408	Hocken Ave (RR Tracks-Canyon Rd) Widening					570,000		570,000
3323	3323	East-West Collector Connection at Loon Dr					115,000		115,000
									-
									-
		Total Capital Project Fund (310)	-	85,000	-	-	956,000	-	1,041,000
Street Overlay & Maintenance Projects:									
									1,000,000
Facility, Civic & Cultural Projects:									
3407	3407	Crescent Connection Shared Use Path					50,000		50,000
3410	3410	Denney Shared Use Path		45,000					45,000
3514	3514	Surface parking @ 1st & Main	-						-
3518	3518	Canyon Rd Alternative Bike Network	251,000	220,000					471,000
3519	3519A	Canyon Rd Intersection Improvements, MTIP	200,000	200,000				1,000,000	1,400,000
									-
									-
Total Capital Development Fund (301)			451,000	465,000	-	-	50,000	1,000,000	1,966,000
Total Project Cost FY 2016-17			451,000	550,000	1,000,000	-	1,006,000	1,000,000	4,007,000
Estimated Ending Balance 6-30-2017			-	334,000	-	-	5,708,890	-	6,042,890

 Note: Shaded projects are to be completed by city workers, application or installation of materials only.

**City of Beaverton
CIP Financial Plan - Water
Maintenance & Replacement Projects Detail
FY 2015-16 Proposed**

Projects		Project Cost	Total for FY
CIP#	Proj #		
3611	JWC Projects		
	Re-Roof Operations Building (JWC-01)	12,500	
	Emergency Backup (Standby) Power, 38 mgd (JWC-02)	310,000	
	Pump Reconditioning (FW#3, JWC-03)	62,500	
	Prelim Design Facility Plan (JWC-04)	88,000	
	Demolish Soda Ash Silo (JWC-05)	12,500	
	Install Flow Meters (WTP) (JWC-06)	125,000	
	Brookwood Widening (STL)	1,000	
			611,500
3700	Annual Water Line Maintenance & Replacement Projects		
	4017 Water System Hydraulic Modeling, Mapping, etc.	50,000	
	4031O Small Works - Misc. Maintenance & Replacement	50,000	
	Program Total - 3700		100,000
3701	Water System Improvements		
	4078B Sexton Mtn Pump Station Upgrade	50,000	
	4060 Water System Security Upgrades	40,000	
	4031O Small Works - Misc. Maintenance & Replacement	50,000	
	4021E ASR Operations Support (on-call)	45,000	
	4088 Energy Recovery Hydro Projects (Energy Trust)	10,000	
	4088A Sexton Mtn Reservoir - Solar Array Project	5,000	
	4083 Duncan Lane, Jamieson to the west	50,000	
	4111 Hyland Way Ct. (200 LF 4" DIP serving 7150-7180)	30,000	
	4112 Hyland Park Ct. (350 LF 4" DIP serving 13460-13490)	40,000	
	6093 Royal Woodlands South Utility Improvements	70,000	
	4109 Denney Rd Waterline Improvement	300,000	
	3302 Farmington Rd Waterline Improvement (148th to Hocken)	200,000	
	4127 Future Sexton Mtn Reservoir Site Prep	100,000	
	4128 TVWD Cooperative Water Projects	100,000	
	4129 West Slope Water Dist Cooperative Water Projects	100,000	
	4017A Water System Master Plan (last 2009)	200,000	
	Program Total - 3701		1,390,000
3705	4001 Fire Hydrant Replacement Program	55,000	
			55,000

Note: Shaded projects are to be completed by city workers, application or installation of materials only.

**City of Beaverton
CIP Financial Plan - Water
Maintenance & Replacement Projects Detail
FY 2016-17 Proposed**

Projects		Project Cost	Total for FY
<u>CIP#</u>	<u>Proj #</u>		
3611	JWC Projects		
	Re-Roof Operations Building (JWC-01)		
	Emergency Backup (Standby) Power, 38 mgd (JWC-02)		
	Pump Reconditioning (FW#3, JWC-03)		
	Prelim Design Facility Plan (JWC-04)		
	Demolish Soda Ash Silo (JWC-05)		
	Install Flow Meters (WTP) (JWC-06)		
	Brookwood Widening (STL)		
			399,324
3700	Annual Water Line Maintenance & Replacement Projects	100,000	
	Program Total - 3700		100,000
3701	Water System Improvements		
4060	Water System Security Upgrades	20,000	
3701	Small Works - Misc. Maintenance & Replacement	75,000	
3701	ASR Operations Support (on-call)	60,000	
6095	11th Street - Lee to Alger	173,420	
TBD	6th Street Waterline - Watson to Stott	124,410	
5090	Jenkins Waterline Extension 153rd to W-bridge	200,000	
4118	Settler Way Waterline Replacement Phase 1	211,120	
4118	Settler Way Waterline Replacement Phase 2	301,600	
6094	Bel-Aire Drive area Utility Replacement (Cresmoor/Ridgeview)	100,000	
6073	Beaverdam Rd Waterline Replacement (CHB/Watson)	194,480	
TBD	McKay Subdiv (Phases 1,2,3) Waterline Replacements	205,920	
4120	Taralynn Avenue (Allen to end)	150,800	
TBD	Kimberly Court	158,340	
TBD	27th Court (Kimberly Ct to 142nd Ave)	106,080	
	Program Total - 3701		2,081,170
3705	4001 Fire Hydrant Replacement Program	60,000	
			60,000

**City of Beaverton
CIP Financial Plan - Sewer
FY 2016-17 Proposed**

Projects	Funding Sources			Total for Fiscal Year
	SDC	Maint. & Repl.	IGA w/CWS	
Estimated Beginning Balance @ 07/01/16	797,823	2,488,265	0	3,286,088
Estimated Additional Resources for FY 16-17	75,000	844,000	200,000	1,119,000
Total Available in FY 16-17	872,823	3,332,265	200,000	4,405,088
Fund# CIP#				
3811 Sewer Collection System				
6006 Erickson Trunk Upsizing (6th St - 10th St)			1,776,000	1,776,000
6093 Royal Woodlands South	625,000			625,000
Program 3811 Total				2,401,000
3850 Maintenance and Replacement Program				
6093 Royal Woodlands South		625,000		625,000
6092 Bel-Aire Subdiv Utility Improvement Phase 2 (Plan O)		275,000		275,000
6094 Bel-Aire Subdiv Utility Improvement Phase 3 (Plan N)		100,000		100,000
Program 3850 Total				1,000,000
Total Project cost in FY 16/17	625,000	1,000,000	1,776,000	3,401,000
Estimated Ending Balance @ 6/30/17	247,823	2,332,265	-1,576,000	1,004,088

Note: Shaded projects are to be completed by city workers, application or installation of materials only.

City of Beaverton
CIP Financial Plan - Storm Drain
FY 2015-16 Proposed

Projects	Funding Sources					Total for Fiscal Year
	SDC			Maint. & Repl.	Grant Funding	
	Conveyance	Quantity	Quality			
Estimated Beginning Balance @ 07/01/15	2,125,303	637,560	248,944	3,271,800		6,283,607
Estimated Additional Resources for FY 15-16	188,997	12,699	6,054	804,387		1,012,137
Total Available in FY 15-16	2,314,300	650,259	254,998	4,076,187	0	7,295,744
Fund# CIP#						
3915 Storm Water Conveyance Project, SDC						
3192 Hocken Bridge Construction	1,007,040					1,007,040
8023 Strategic drainage (buffer) easement/property acquisition	5,000					5,000
8119 141st Ave (Millikan Way to Vernier) Conveyance Pipe	90,000					90,000
8125 South Cooper Mtn Storm Conveyance	200,000					200,000
8128 Jamieson SWM project	115,000					115,000
8129 Small Works Projects, Eng. Svcs., and In-house OH Charges	50,000					50,000
Program 3915 Total						1,467,040
3916 Storm Water Quantity Project, SDC						
8123 Existing Stormwater Pond capacity expansion - TBD		30,000				30,000
8129 Small Works Projects, Eng. Svcs., and In-house OH Charges		11,000				11,000
Program 3916 Total						41,000
3917 Storm Water Quality Project, SDC						
8095 Hart Road TC Rain Gardens (periodic fill-in work for Street Crew)			11,000			11,000
8129 Small Works Projects, Eng. Svcs., and In-house OH Charges			11,000			11,000
8104A Pre-treat Retrofit: 6775 SW Murray			35,000			35,000
8104B Storm Pond remodel at 10200 Murray Blvd			130,000			130,000
Program 3917 Total						187,000
3950 Maintenance & Replacement Program						
3225 SW 155th/Sexton Mtn Wetland Monitoring				5,000		5,000
3320 Hall Creek Enhancment - 114th to 117th Wetland Monitering Reports 'til 2019				311,000		311,000
3521 Creekside Pilot Proj (Francis Triangle)				325,000		325,000
5088 Walker Road, Murray to 173rd				5,000		5,000
5089 Murray/Walker Intersection and replace bridge				5,000		5,000
5090 Jenkins Road Bridge at Cedar Mill Creek				5,000		5,000
6089 Barrows Rd drainage improv Ph 3				110,000		110,000
8023 Strategic drainage (buffer) easement/property acquisition				10,000		10,000
8085 Priority Catch Basin Repl (Sags) with less clogging Design 5 ea				30,000		30,000
8102 Storm Conduit and CB Repair on overlay Streets				75,000		75,000
8112 102nd Ave S of Heather Ln				18,000		18,000
8114 Creek Debris Screen Repl, 117th @ Hall Creek and Hiteon Creek				35,000		35,000
8122 Major CIPP storm pipe rehab project -- Let Contract				20,000		20,000
8123 Storm Pond Major Maint/Rehab/Veg Estab:Little People, Fountain Ct, Cornell Oaks				45,000		45,000
8124 Stormwater Outfall Pipe major repairs, Millikan/Discovery, 67th Ave.				30,000		30,000
8129 Small Works Projects, Eng. Svcs., and In-house OH Charges				130,000		130,000
8130 3805-3825 SW 144th Ave Bldg demo, wetland/veg				60,000		60,000
8098A Dover Lane South-- Storm drain pipe replacement				220,000		220,000
8098B Dover Lane North-- Storm drain pipe replacement				220,000		220,000
Program 3950 Total						1,659,000
Total Project cost in FY 15/16	1,467,040	41,000	187,000	1,659,000	0	3,354,040
Estimated Ending Balance @ 6/30/16	847,260	609,259	67,998	2,417,187	0	3,941,704

Note: Shaded projects are to be completed by city workers, application or installation of materials only.

City of Beaverton
CIP Financial Plan - Storm Drain
FY 2016-17 Proposed

Projects	Funding Sources					Total for Fiscal Year
	SDC			Maint. & Repl.	Grant Funding	
	Conveyance	Quantity	Quality			
Estimated Beginning Balance @ 07/01/16	847,260	609,259	67,998	2,417,187		3,941,704
Estimated Additional Resources for FY 16-17	175,000	12,000	5,000	847,300		1,039,300
Total Available in FY 16-17	1,022,260	621,259	72,998	3,264,487	0	4,981,004
Fund# CIP#						
3915 Storm Water Conveyance Project, SDC						
6080 Erickson Creek Pipe (Farmington to 144th)	5,000					5,000
8125 South Cooper Mtn Storm Conveyance	20,000					20,000
8128 Jamieson SWM project	10,000					10,000
3192 Hocken Ave Bridge and Street Improvement @ Bvtn Creek	20,000					20,000
TBD Small Works Projects, Eng. Svcs., and In-house OH Charges	50,000					50,000
8023 Strategic drainage (buffer) easement/property acquisition	5,000					5,000
Program 3915 Total						110,000
3916 Storm Water Quantity Project, SDC						
8123 Existing Stormwater Pond capacity expansion - TBD		30,000				30,000
TBD Small Works Projects, Eng. Svcs., and In-house OH Charges		10,000				10,000
TBD Underground Det Facility Repair/Retrofit		10,000				10,000
Program 3916 Total						50,000
3917 Storm Water Quality Project, SDC						
8104B Stormwater pond remodel at 10200 Murray Blvd Storm Filter			10,000			10,000
5089A Pre-treat Retrofit: Walker/Murray at Cedar Mill Creek (Bvtn share WaCo MSTIP bridge replace)			10,000			10,000
TBD Small Works Projects, Eng. Svcs., and In-house OH Charges			10,000			10,000
Program 3917 Total						30,000
3950 Maintenance & Replacement Program						
6093 South Royal Woodlands/Pine Hills Subdiv Sani Sewer Replacement				55,000		55,000
8098A/B Dover Lane North and South Storm Drain Replacement				25,000		25,000
8122 Major CIPP storm pipe rehab project --(Phase 1 and 2)				1,025,000		1,025,000
TBD 11092 SW Allen Blvd failing RCB w/36" dia, add primary treatment vault				105,000		105,000
8023 Strategic drainage (buffer) easement/property acquisition				10,000		10,000
8085 Priority Catch Basin Replacement (Sags) w/less clogging design				35,000		35,000
8102 Storm Conduit and CB Repair on overlay streets				75,000		75,000
TBD Small Works Projects, Eng. Svcs., and In-house OH Charges				110,000		110,000
8123 Stormwater Pond Major Maint/Rehab; Veg Estab;				45,000		45,000
3521 Creekside Pilot Project #1 (Francis Triangle)				30,000		30,000
TBD Creekside Pilot Project #2: Support of Creekside District Master Planning				10,000		10,000
Program 3950 Total						1,525,000
Total Project cost in FY 16/17	110,000	50,000	30,000	1,525,000	0	1,715,000
Estimated Ending Balance @ 6/30/17	912,260	571,259	42,998	1,739,487	0	3,266,004

Note: Shaded projects are to be completed by city workers, application or installation of materials only.

**CITY OF BEAVERTON
CAPITAL IMPROVEMENTS PLAN (CIP)
FOR FY 2015-16 THROUGH FY 2019-20**



LITTLE PEOPLE'S PARK PONDS

PROJECT DATA FOR FY 2015-16 PROJECTS

CONTENTS:

- Transportation & Civic Project Data Sheets
- Miscellaneous Transportation Project Data Sheets
- Street Rehabilitation Program
- Water Project Data Sheets
- Sanitary Sewer Project Data Sheets
- Storm Drainage Project Data Sheets

Notes:

On all project data sheets, the "Estimated Project Cost" figure shown is the total estimated cost for the project over its entire duration, which may be more than one fiscal year. Multi-fiscal year projects are identified by an asterisk beside their project names.

THIS PAGE LEFT INTENTIONALLY BLANK

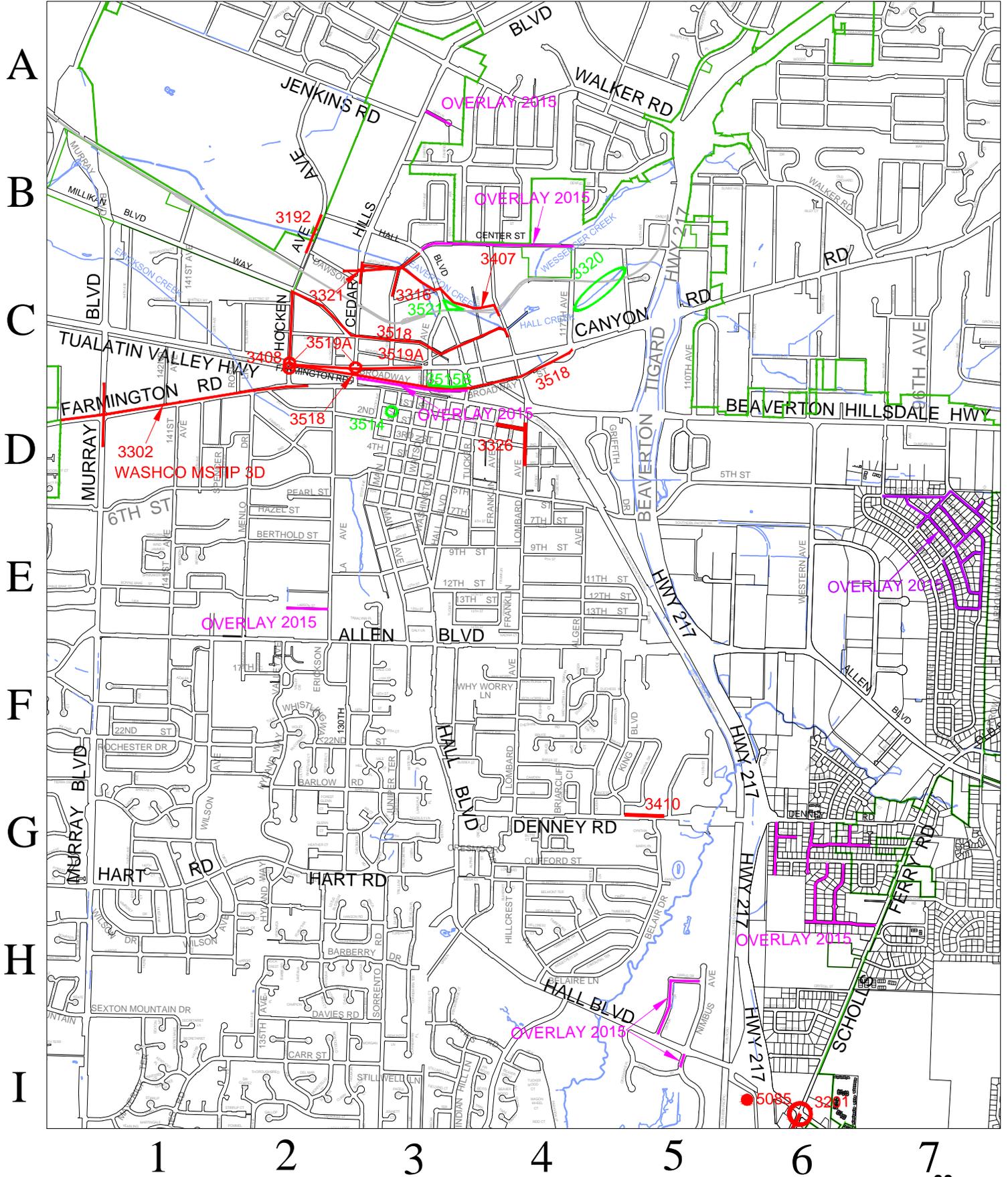
Transportation & Civic Projects
FY 2015-2016

Transportation & Civic Projects

<u>Project No.</u>	<u>Project Name</u>	<u>Map Location</u>
3192*	Hocken Ave Bridge and street Improvements at Beaverton Creek	B2, pg 33
3201*	Washington Square Adaptive Signal System	I1-F7, pg 34
3223*	Transportation Enhancement Projects	NA
3302*	Farmington Rd (Hocken-Murray), MSTIP 3D	D1-C2, pg 33
3316*	Rose Biggi Ave Extension (Crescent St – Hall Blvd)	C3, pg 33
3320*	Hall Creek Water Quality and Pathway (114 th -117 th) Enhancement	C4, pg 33
3321*	Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment	C2, pg 33
3323*	East-West Collector Connection at Loon Dr	H3, pg 35
3326*	Utility Undergrounding in the Vicinity of 1st Ave and Lombard Ave	D4, pg 33
3407*	Crescent Connection Shared Use Path	C2-C4, pg 33
3408*	Hocken Ave (RR-TV Hwy) Widening	C2, pg 33
3410*	Denney Rd Shared Use Path	G5, pg 33
3515B*	Broadway Streetscape Improvements (Watson Ave – Hall Blvd)	C3, pg 33
3518*	Canyon Rd Alternative Bike Network	C2-C4, pg 33
3519A*	Canyon Rd Intersection Improvements, MTIP	C2-C3, pg 33
3521*	Creekside Pilot Project #1 (Francis Triangle)	C3, pg 33
5085*	Cascade Ave at Cascade Plaza Parking Structure Pedestrian Crossing Safety Improvements	I6, pg 33
5088*	Walker Rd (173rd Ave - Butner Rd), MSTIP3D	A2-C5, pg 35
5089*	Murray/Walker Intersection & Replacement Bridges, MSTIP 3D	C6, pg 35
5090*	Jenkins Rd (158th Ave - Murray Blvd) & 158th Ave (Baseline Rd - Merlo LRT), MSTIP3D	C4-D4, pg 35

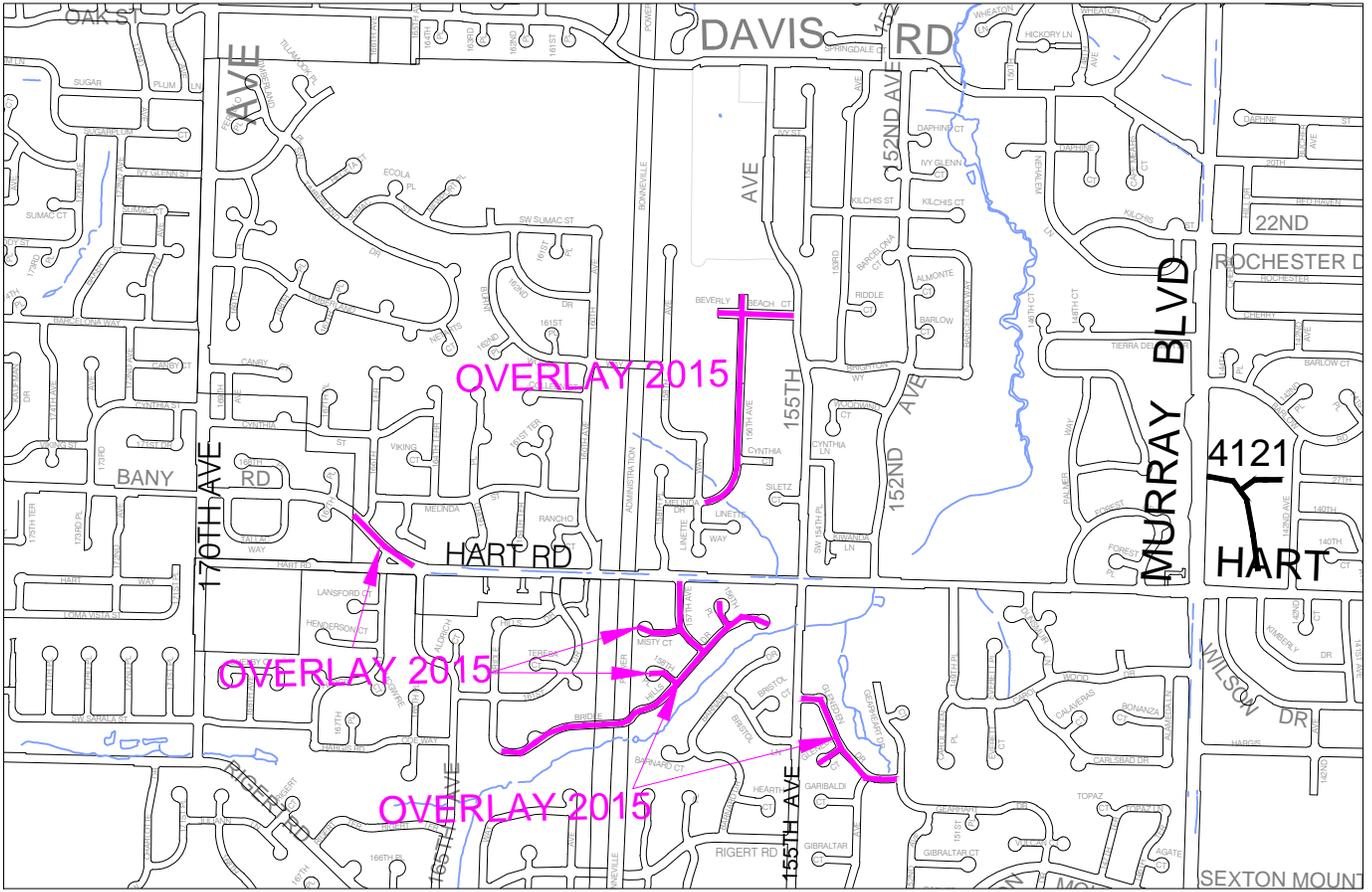
* Denotes multi-year project

Transportation & Civic Projects FY 2015-2016

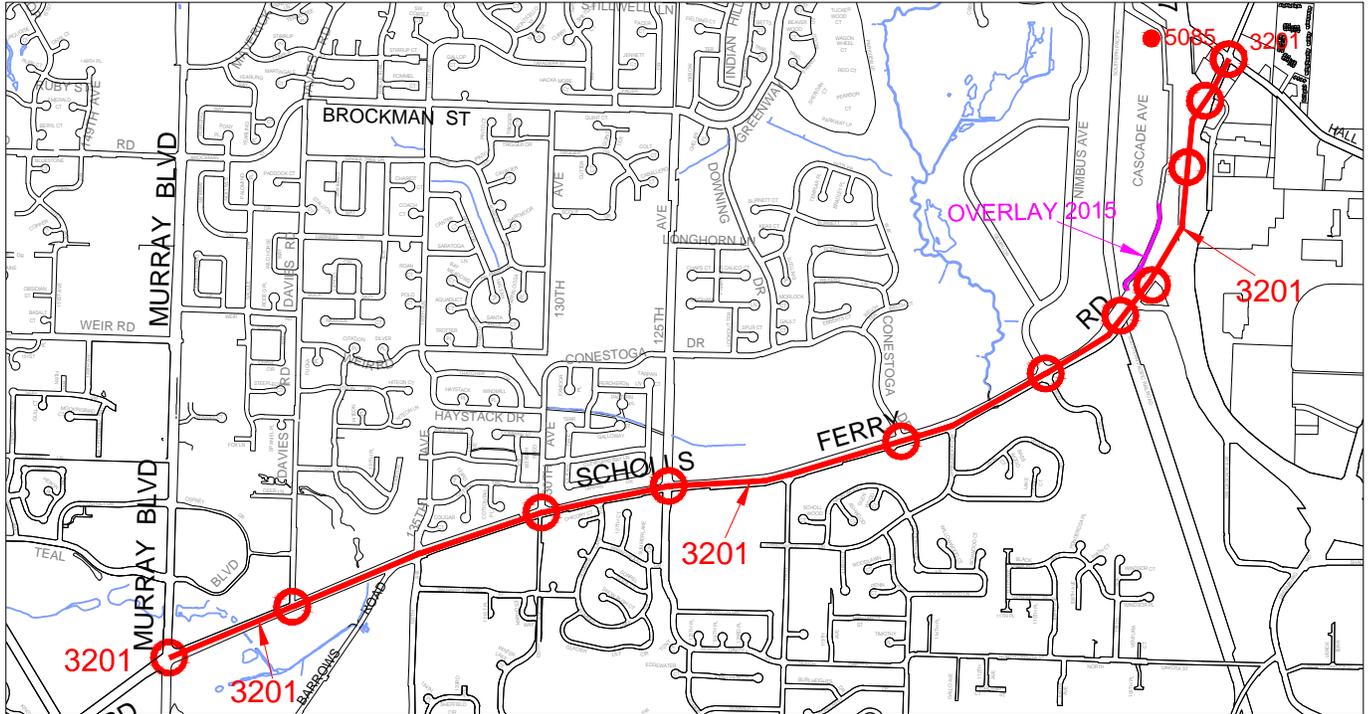


Transportation & Civic Projects FY 2015-2016

A
B
C
D
E



F
G
H
I



1 2 3 4 5 6 7

Transportation & Civic Projects FY 2015-2016

A

B

C

D

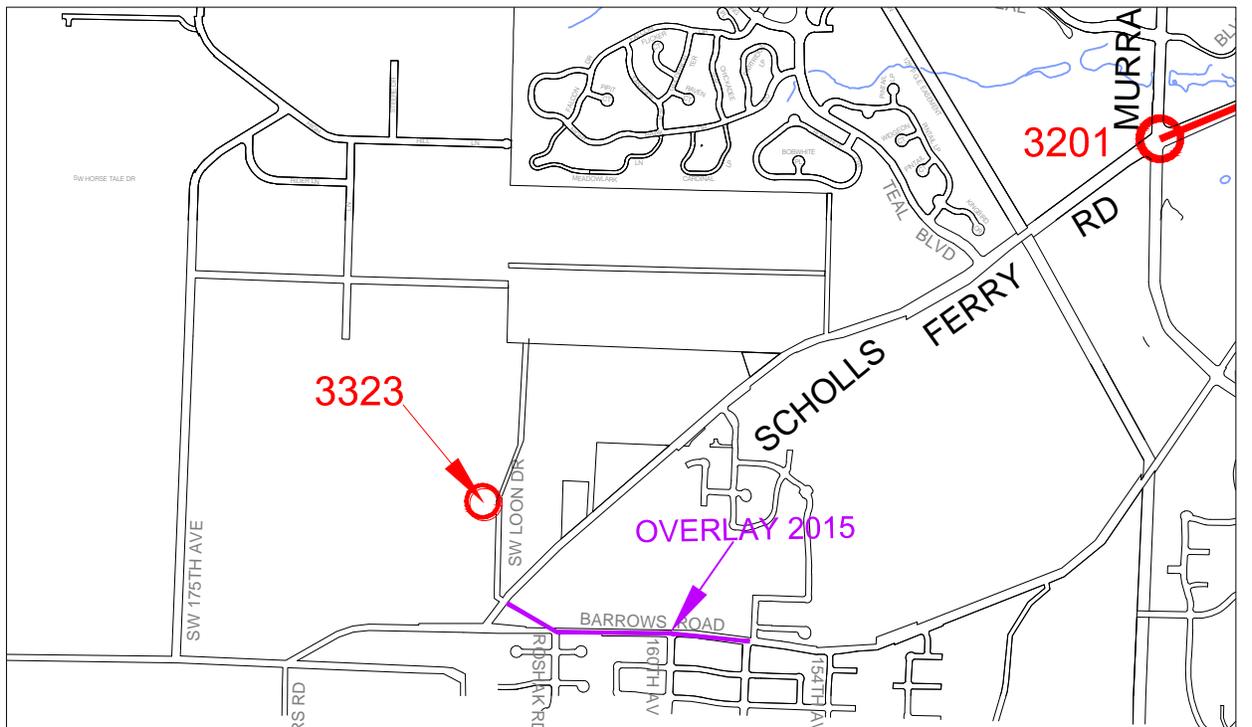
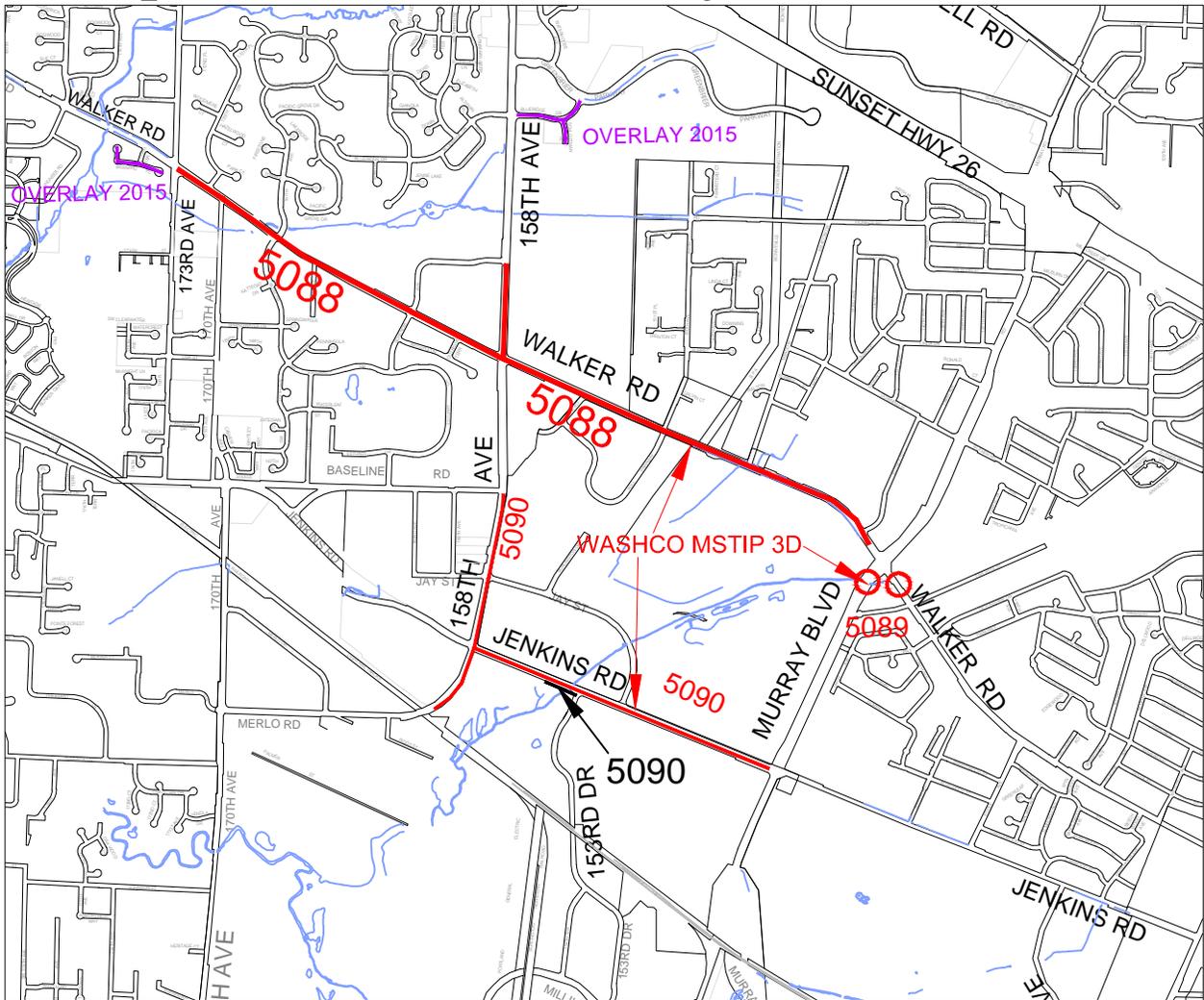
E

F

G

H

I



1 2 3 4 5 6 7

CAPITAL IMPROVEMENT PROGRAM



PROJECT LOCATION

PROJECT SUMMARY SHEETS

The project sheets describe the origin, cost, funding source, location and status of transportation projects included in the FY15/16 Capital Improvement Program.

- Traffic Calming
- **Hocken Avenue Bridge Improvement**
- Traffic Enhancement
- Farmington Road Improvement
- Rose Biggi Avenue Extension
- Westgate Dr/Dawson Way Realignment
- Loon Drive Intersection
- Crescent Connection Multi-Use Path
- Hocken Avenue Widening
- Denney Road Multi-Use Path
- Canyon Road Alternate Bike Network
- Broadway Streetscape Improvement
- Canyon Road Intersection Improvement
- South Cooper Mountain Infrastructure Study
- Cascade Avenue Safety Improvements

Project ID: 3192 Hocken Ave Bridge Improvement

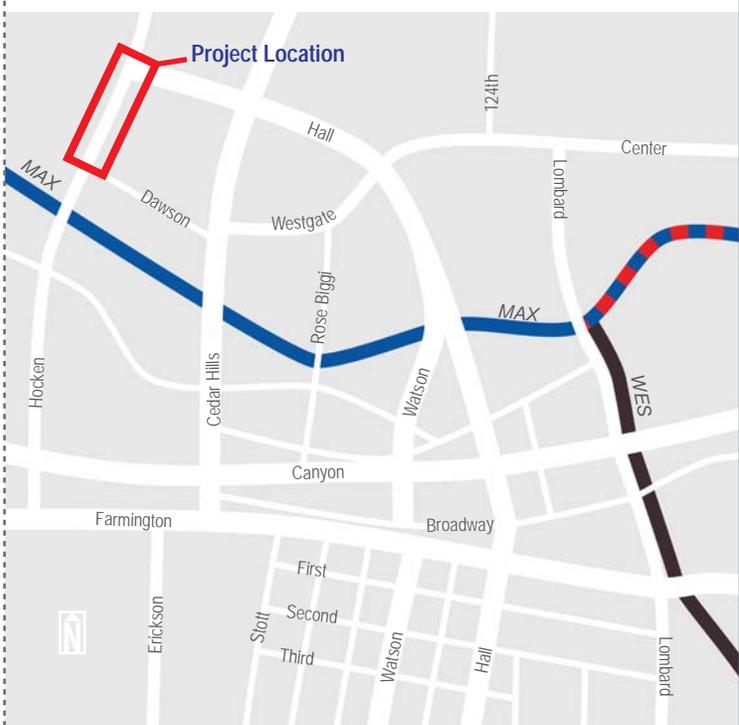
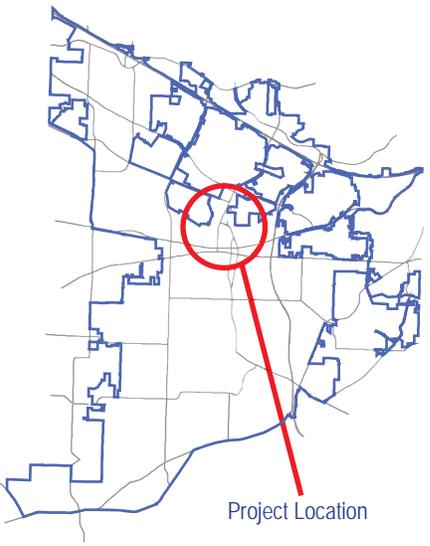
This project addresses a flooding issue caused by an inadequate culvert, and a pedestrian and bicycle safety issue caused by the absence of sidewalks and bike lanes.

This project replaces two 84-inch culverts with a 61-foot long by 60-foot wide concrete slab bridge over Beaverton Creek and improvements 875 feet of Hocken Avenue to collector street standards between Hall Boulevard and the MAX light rail tracks. Replacement of the Hocken Avenue culverts with a bridge is needed to reduce frequency of flooding from the 5 year through the 50 year flood events. This project could complete improvements begun by CIP 8022A, 8022B and 3317.

FY08-09: Complete 90% design. FY09-14: Acquire right-of-way, obtain environmental permits, and complete utility relocation. FY14-15: Land use approval received and final plans completed. FY15-16: complete construction.

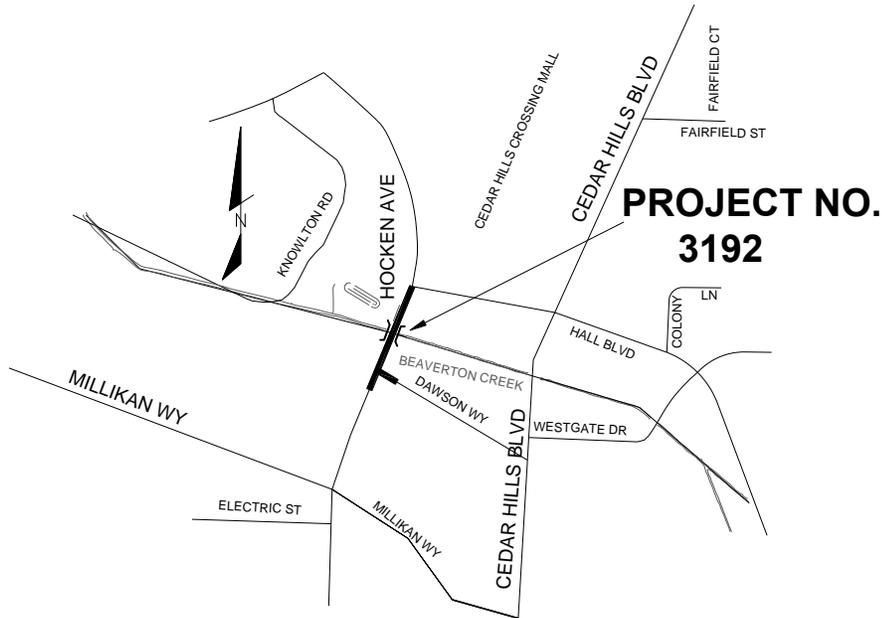
PROJECT DATA

Project ID:	3192
Name:	Hocken Ave Bridge and Street Improvements at Beaverton Creek
Description:	Replace two culverts with a concrete slab bridge over Beaverton Creek and improve Hocken Avenue with a collector street design
Origin:	City of Beaverton Transportation System Plan
Community Vision Action Plan Items:	#18, #51, #56, #69
Neighborhood Association Committee:	Central Beaverton
Status:	New - no work completed
Estimated Completion Date:	06/30/2016
Estimated Total Project Cost:	\$3,250,000
<i>PE, PI, Cost Est.:</i>	\$1,441,960 (FY15/16)
<i>ROW:</i>	\$To Be Determined
<i>Construction:</i>	\$To Be Determined
First Year Budgeted:	FY15/16
Fund Number:	114
Fund Name:	Transportation Impact Fee (TIF)
Total for FY2015/16:	\$1,441,960



Project Number: 3192
Project Name: Hocken Ave Bridge and Street Improvements at Beaverton Creek
Project Description: Replace two 84-inch culverts with a 61-foot long by 60-foot wide concrete slab bridge over Beaverton Creek and improve 875 feet of Hocken Ave to collector street standards between Hall Blvd and 130 feet south of Dawson Wy.

Map:



Project Justification: Replacement of the Hocken Avenue culverts with a bridge is needed to reduce the frequency of flooding from the 20-percent-annual-chance storm through the 2-percent-annual-chance storm (5 year through 50 year flood events). These street and storm drainage improvements will facilitate redevelopment in the Downtown area vicinity of The Round. This project would complete the improvements begun by CIP 8022A, CIP 8022B, and CIP 3317. This project responds to Community Vision Action Plan (CVAP) #18 establishing sidewalks and bikeways, #51 road system capacity and traffic flow, #56 complete bike/pedestrian network, and #69 maintain infrastructure to respond to emergencies.

Project Status: FY08/09: Complete 90% design (see CIP 8022). FY09/10: Begin acquisition of ROW from 4 adjacent property owners. Reached informal agreement with two adjacent property owners concerning the purchase of right of way and associated improvements. FY10/11: Finalized ROW with owner of TL 1S109DC00200 (Kuni) and continued to acquire right of way from other property owners. FY11/12: Continued to acquire right of way through ROW agent, Epic Land Solutions. FY12/13: Acquired ROW from Tektronix and Bernard Properties. Completed update of design, coordinated relocation of utilities, and applied for permits from DSL, COE and CWS. FY13/14: Complete ROW acquisition, obtain environmental permits, complete utility relocation coordination, and complete plans and specifications. DSL permit received 12-13-13. CWS Service Provider Letter received 3-4-14. EDA grant application submitted 3-14-14. FY14/15: COE permit received 9-29-14. ROW acquisition completed 12-19-14. Land use applications approved 2-23-15. Final plans completed 2-20-15. Project advertised 2-27-15. Bids opened 4-1-15. Contract awarded 4-21-15. Began construction 5-18-15. FY15/16: Complete construction.

Estimated Date of Completion: 07/28/2016
Estimated Project Cost: \$3,600,000

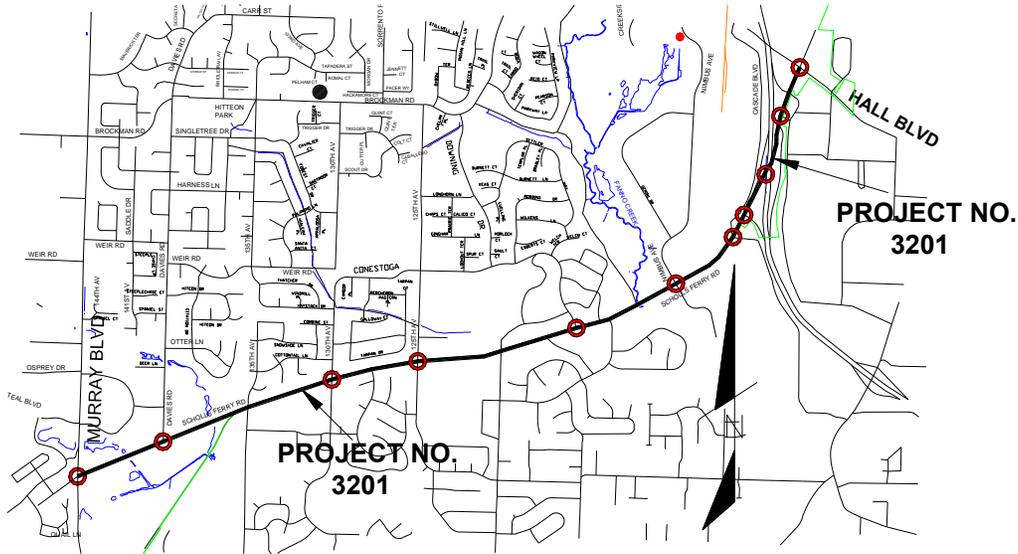
First Year Budgeted: FY09/10
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3192	114	TIF Fund	\$1,441,960	FY2015/16
	3620	Water Extra Capacity Supply	\$282,000	FY2015/16
	3850	Sewer Maint/Replacement	\$120,000	FY2015/16
	3915	Storm SDC Conveyance	\$1,007,040	FY2015/16
	CWS	IGA w/ Clean Water Services	(\$270,000)	FY2015/16
	TVWD	IGA w/ Tualatin Valley Water District	<u>(\$100,932)</u>	FY2015/16
		<u>Total for FY:</u>	\$2,480,068	

Project Number: 3201
Project Name: Washington Square Adaptive Signal System
Project Description: This is a Regional Flexible Fund Program project that is primarily funded with Federal funds with a local match paid by Washington County. The intent of the project is to upgrade the existing traffic signal control software on Scholls Ferry Rd between Hall Blvd and Murray Blvd to an adaptive signal control system.

Map:



Project Justification: SW Scholls Ferry Rd is a major east/west corridor that serves the Washington Square area and south Beaverton. The area transportation network is split between multiple jurisdictions, including Beaverton, Tigard, Washington County and Oregon Department of Transportation. Managing highly variable traffic volumes particularly at over capacity intersections has been challenging. The corridor experiences excessive delay and poor vehicle progression.

The new adaptive traffic signal control system provides cycle-by-cycle optimization of cycle length, splits and offsets in real time. The system collects real time traffic data and can detect variations in traffic volumes and react accordingly to the situations. The system will coordinate the area multi-jurisdictional traffic signals into one system. Recent installations of adaptive traffic signal systems in our region have shown reductions of overall delays of up to 20 percent.

This project responds to Community Vision Action Plan # 46 - utilize smart signals and #49 - improve intersection timing.

Project Status: FY14-15: Due to the timing of the grant acceptance, this project is not shown in the Financial Plan for FY15-16. FY 15-16: Complete IGA with ODOT, select consultant and begin design. FY 16-17: Complete design and construction.

Estimated Date of Completion: 10/31/2016
Estimated Project Cost: \$825,000
First Year Budgeted: FY5/16
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3201	Federal-Flex	ODOT Flexible Funds (Federal)	\$223,000	FY2015/16
	WASHCO	Matching Funds	\$25,000	FY2015/16
<u>Total for FY:</u>			\$248,000	

Project Data

Transportation

Project Number: 3223

Project Name: Traffic Enhancement Projects

Project Description: This is a program for development and implementation of improved traffic signal timing plans, improvements to the existing traffic signal system, installation of new traffic signals, and traffic calming on neighborhood streets funded by a 3-year serial levy approved by Beaverton voters in 1997. Most of the program funding has been spent; however, remaining funds are allocated to specific projects that will be approved by the Traffic Commission and the City Council.

Project Justification: Necessary to respond to an increase in traffic volumes resulting in increased delays on the arterial system and infiltration into neighborhoods with arterial traffic.

Project Status: FY15-16: Continue to implement projects that are approved under the Traffic Enhancement Program.

Estimated Date of Completion: 06/30/2016

Estimated Project Cost: \$2,600,000

First Year Budgeted: FY97/98

New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3223	001	General Fund	\$141,863	FY2015/16
<u>Total for FY:</u>			\$141,863	

Project Number: 3302

Project Name: Farmington Rd (Hocken-Murray), MSTIP 3D

Project Description: This is a Washington County MSTIP 3D project that proposes to widen 4200' of road to 5 lanes from Hocken Ave to Murray Blvd with bike lanes and sidewalks. Project also includes intersection improvements such as turn lanes at Hocken Ave and Murray Blvd and intersection realignment and signalization at the 141st Ave/142nd Ave intersection. Additional information on this project is available at <http://www.co.washington.or.us/LUT/TransportationProjects/farmington-murray-to-hocken-project.cfm?page=About>.

The estimated project cost for design, acquisition of right-of-way, and construction is \$21.4 million. Washington County MSTIP will fund all aspects of the project except the water and sanitary sewer upgrades and utility undergrounding which will be funded by the City at an estimated cost of \$2.45 million.

Map:



Project Justification: Intersection improvements will increase safety and capacity at Murray Blvd (third highest accident location in the City) and Hocken Av. The existing shared pedestrian path and bike path along the south side of Farmington Rd does not meet current design standards. Without the proposed project, Farmington Rd and the intersections at Murray Blvd and Hocken Av will not meet the required level of service standards in the year 2035.

This project responds to Community Vision Action Plan (CVAP) #18 establishing sidewalks and bikeways, #53 intersection safety, and #47 Canyon and Farmington Road traffic improvements.

Project Status: FY12-13: In Mar 2012 Washington Co added project to MSTIP3D list. In Jan 2013 HHPRI was contracted by WASHCO to complete PS&E. 1-11-13 Project kickoff meeting. 4-10-13: Open House #1. Hold bi-weekly project development meetings. 6-3-13: Meeting with Central Beaverton NAC. FY13-14: Continue design and begin ROW acquisition. 90% plans completed Aug 2013. 95% plans completed Dec 2013. PTF2013-0002 and SDM2013-0006 approved 12-31-2013. Eastbound right turn lane at Farmington/Murray removed 4-21-14. Open House #2 held 4-30-14. FY14-15: Complete ROW acquisition, bid and award project, and begin construction. Site Development permit approved in Nov 2014. 100% plans approved Feb 2015. Open House #3 held 2-26-15. Bids opened 3-16-15. K&E Excavation of Salem, OR is the low bidder. Construction began 6-1-15.

Estimated Date of Completion: 08/30/2017
Estimated Project Cost: \$21,400,000

First Year Budgeted: FY00/01

New Project:

Funding Data:

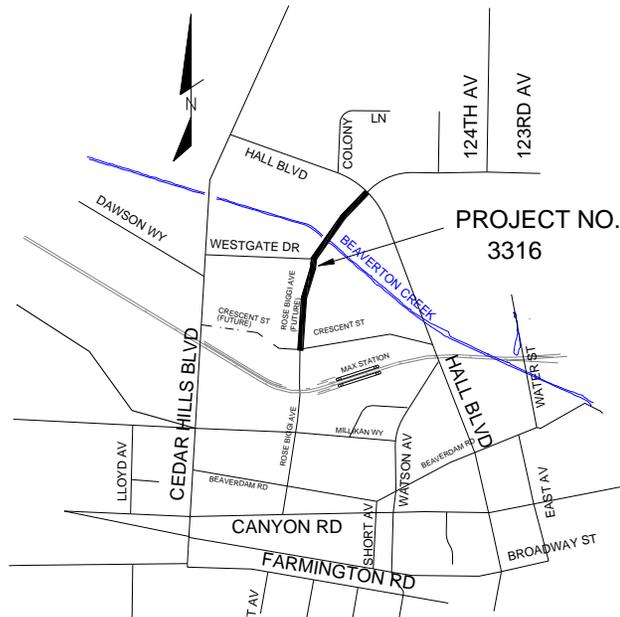
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3302	114	TIF Fund	\$252,000	FY2015/16
	3307	Utility Undergrounding	\$140,000	FY2015/16
	3701	Water Improvements	\$200,000	FY2015/16
	3811	Sewer SDC	\$390,000	FY2015/16
	3850	Sewer Maint/Replacement	\$390,000	FY2015/16
	CWS	IGA w/ Clean Water Services	(\$65,000)	FY2015/16
	MSTIP3-Co	Major Streets Transportation Improvement 3 (County)	(\$252,000)	FY2015/16
		<u>Total for FY:</u>	\$1,055,000	

Project Number: 3316

Project Name: Rose Biggi Ave Extension (Crescent St to Hall Blvd)

Project Description: Construct an 850-foot extension of Rose Biggi Ave from Crescent St to Hall Blvd. The street section on Rose Biggi Ave will be composed of two 12-foot travel lanes, two 8-foot parking lanes, and two 10-foot sidewalks with trees planted in tree wells for a total right of way width of 60 feet. The street section on Westgate Dr will be composed of two 11-foot travel lanes, two 8-foot parking lanes, and two 6-foot sidewalks for a total right of way width of 50 feet. Other improvements include storm drainage, water, sanitary sewer, street lighting, and irrigation. Also included is the replacement of the existing single-span, precast, 52-foot long by 46-foot wide concrete slab bridge over Beaverton Creek.

Map:



Project Justification: Since the completion of the Beaverton Central LRT Station in 1998, the City of Beaverton has pursued its vision of a multi-use downtown environment accessible by all forms of transportation and a place for living, working and community life. The City, in partnership with TriMet, ODOT and Washington County, has completed several elements of the Beaverton Downtown Connectivity Plan that aims to connect major north-south and east-west streets such as Canyon Rd, Hall Blvd and Cedar Hills Blvd to the Beaverton Central LRT Station. In order to encourage development and redevelopment in the area, it is essential that access for all modes of transportation to the Beaverton Central LRT Station be completed on the north side of the LRT station as well as the south side.

This project responds to Community Vision Action Plan (CVAP) #36 connecting downtown to surrounding neighborhoods, #37 improving downtown walkability, and #51 road system capacity and traffic flow.

Project Status: FY07-08: Project design phase approved in MTIP in the amount of \$580,000 in Federal Aid. FY08-09: Project design phase pushed back one year in MTIP to more closely align with right of way phase. Project right of way acquisition approved in 2012-13 MTIP in the amount of \$2,758,238 in Federal Aid. FY09-10: IGA with ODOT executed on 10-8-09 for PE phase. Scope and fee for David Evans & Assoc. (DEA) engineering services completed in July 2010. Preparation of environmental documents underway by DEA. FY10-11: Mayer Reed landscape recommendations for bridge and surrounding area completed 12-8-10. DEA completed traffic and geotechnical reports. FY11-12: Environmental documentation for permitting complete in Jan 2012. 60% design complete 1-31-2012. Resolution of necessity approved 3-20-12. ROW acquisition began in June 2012. Contract with DEA approved 8-22-12 for engineering services.

CWS Service Provider Letter approved 10-1-12. 90% design complete 11-6-12. Contract with Walker Macy approved 11-15-12 for architectural services. 100% design complete 2-4-13. Project delayed due to impending condemnation. FY13-14: Complete ROW acquisition and ODOT PS&E process and begin construction. 8-26-13: Final plans to ODOT Salem. 9-19-13: Project advertised. 10-10-13: Bids opened. Carter & Co low bidder. 11-5-13: ODOT issued NTP. 2-14-14: Precon held. 3-3-14: Began construction. FY14-15: Road opening ceremony held on 5-18-15. Construction substantially completed on 5-29-15. FY15-16: Close out project (complete punch list items and ODOT quantity, quality and labor documentation).

Total project cost estimate: Design - \$790,000; ROW - \$1,173,000; Construction - \$2,600,000

Estimated Date of Completion: 10/03/2015
Estimated Project Cost: \$4,563,000

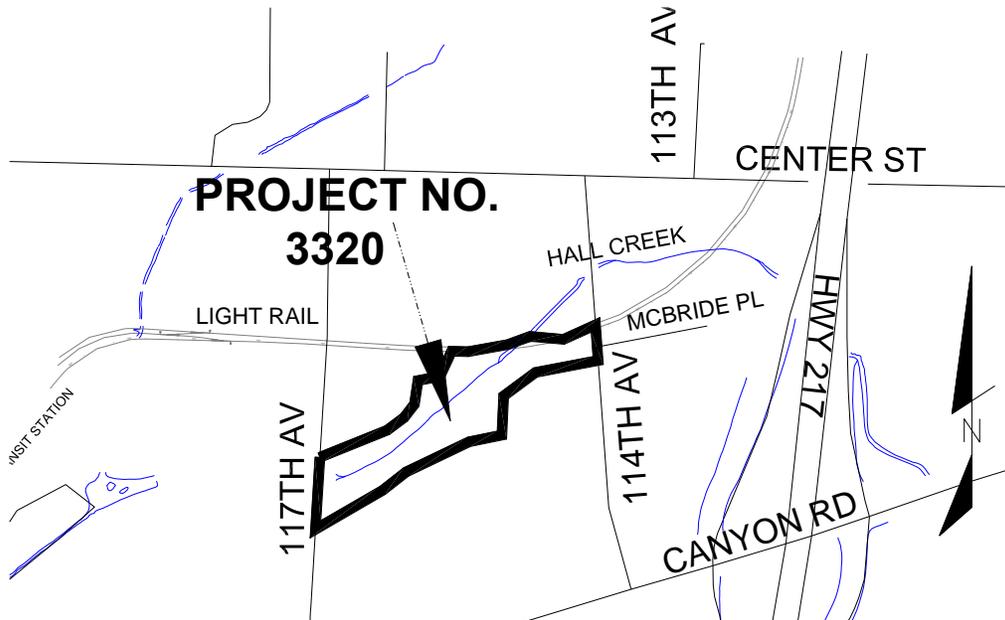
First Year Budgeted: FY07/08
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3316	114	TIF Fund	\$42,000	FY2015/16
	3620	Water Extra Capacity Supply	\$230,000	FY2015/16
	3811	Sewer SDC	\$46,000	FY2015/16
<u>Total for FY:</u>			\$318,000	

Project Number: 3320
Project Name: Hall Creek Water Quality and Pathway (114th-117th) Enhancement
Project Description: The purpose of the project is to enhance Hall Creek from 114th Avenue to 117th Avenue as part of the Metro Nature in the Neighborhood Capital program. The scope of work includes grading to reduce erosion of the stream banks, removal of invasive plants, removal of some impervious surface, repair of existing stormwater infrastructure, bank stabilization, path realignment, rain gardens, stomfilter vault, vegetative enhancement, and interpretive signage.

Map:



Project Justification: Implements a portion of the Three Creeks plan identified in the Central City Strategy of the Beaverton Civic Plan. Goals of the project are to alleviate flooding on private property, improve stormwater runoff quality, improve safety for pedestrians and bicyclists, provide a green space that the community can enjoy, and present an example of how a creek can satisfactorily fit into an urban area. This project responds to Community Vision Action Plan (CVAP) #56 complete bike/pedestrian network and #100 build an interconnected pedestrian greenway system.

Project Status: FY11-12: City submitted a letter of interest in Nov 2011. City submitted full project application to Metro on 1-9-12. Metro grant committee visited site 2-17-12. Grant in the amount of \$354,304 approved 3-22-12. FY12-13: IGA with Metro for Nature in the Neighborhood grant completed 10-30-12. Cardno contracted for engineering services. Preliminary design began. FY13-14: Continue design and begin environmental permitting. FY14-15: Complete design and permitting. Begin construction in the summer of 2015. FY15-16: Complete construction. FY16-17: Begin vegetation maintenance and establishment.

Estimated Date of Completion: 10/30/2015
Estimated Project Cost: \$1,073,000

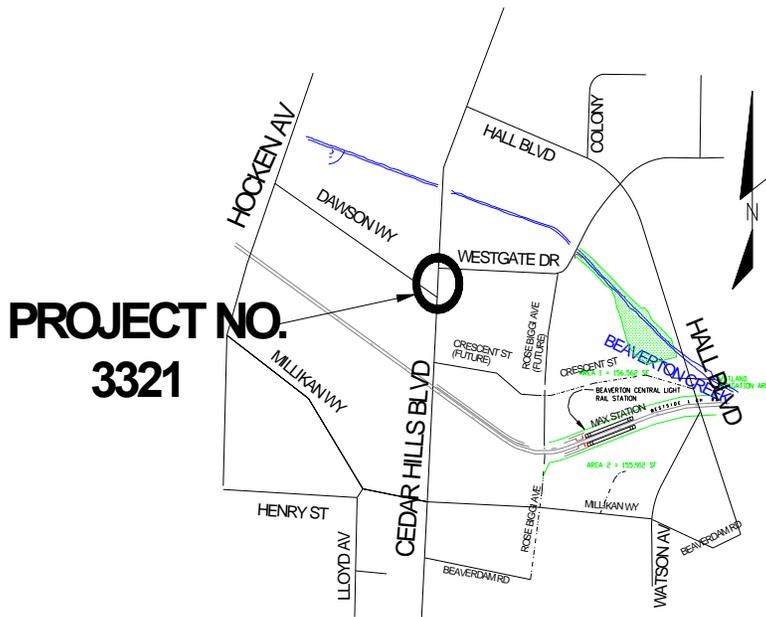
First Year Budgeted: FY12/13
New Project:

Funding Data:

Project No.	Fund No.	Fund Name	Amount	FY
3320	101	Street Fund	\$289,000	FY2015/16
	3950	Storm Maint/Replacement	\$311,000	FY2015/16
	Metro	Capital Grant	(\$354,304)	FY2015/16
Total for FY:			\$245,696	

Project Number: 3321
Project Name: Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment
Project Description: Realign the intersection of Dawson Wy and Westgate Dr with Cedar Hills Blvd. Work includes intersection signalization, continuation of a 5-lane arterial cross section on Cedar Hills Blvd, and a 2-lane collector cross section on Westgate Dr and Dawson Wy. At the new intersection, street improvements on Westgate Dr and Dawson Wy include two twelve-foot through lanes, a left turn lane in each direction, and an eastbound right turn lane. Beyond the intersection, Dawson Wy and Westgate Dr will both be built within a 60 foot right of way and include two twelve-foot travel lanes with sharrows, eight-foot parking lanes, and six or ten-foot sidewalks.

Map:



Project Justification: The existing non-signalized intersection is offset by 125 feet which poses a safety concern particularly after Dawson Wy was connected to Hocken Ave to the west. In addition, the Crescent Path project (CIP 3407) will terminate at this intersection and the pedestrian crossing of Cedar Hills Blvd will benefit significantly from a signalized intersection. In addition, the left turn lanes and westbound right turn lane will improve capacity. The realignment of and signalization of this intersection is listed as Project # 25 in the TSP 2035 update. This project responds to Community Vision Action Plan (CVAP) #51 road system capacity planning, #53 intersection safety, and #18 establishing sidewalks and bikeways.

Project Status: FY11-12: Completed survey of Cedar Hills Blvd/Westgate Dr/Dawson Wy intersection. FY12-13: Study alignment options. FY13-14: City staff begins preliminary design and budget estimates. FY14-15: City staff continues preliminary design and budget estimates. FY15-16: Award consultant engineering services contract and begin design.

Estimated Date of Completion: 06/30/2018
Estimated Project Cost: \$2,100,000

First Year Budgeted: FY12/13
New Project:

Funding Data:

Project No.	Fund No.	Fund Name	Amount	FY
3321	114	TIF Fund	\$147,000	FY2015/16
Total for FY:			\$147,000	

CAPITAL IMPROVEMENT PROGRAM

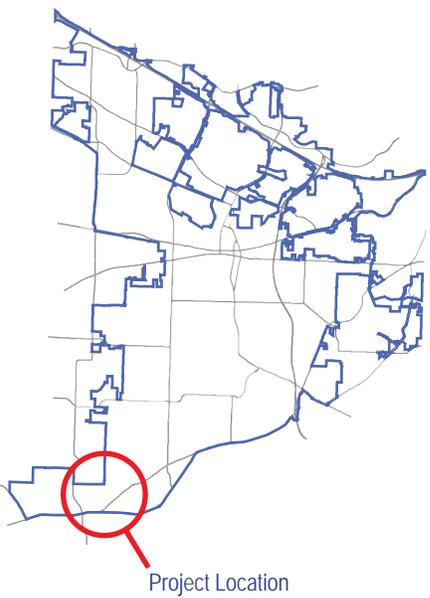


PROJECT LOCATION

PROJECT SUMMARY SHEETS

The project sheets describe the origin, cost, funding source, location and status of transportation projects included in the FY15/16 Capital Improvement Program.

- Traffic Calming
- Hocken Avenue Bridge Improvement
- Traffic Enhancement
- Farmington Road Improvement
- Rose Biggi Avenue Extension
- Westgate Dr/Dawson Way Realignment
- **Loon Drive Intersection**
- Crescent Connection Multi-Use Path
- Hocken Avenue Widening
- Denney Road Multi-Use Path
- Canyon Road Alternate Bike Network
- Broadway Streetscape Improvement
- Canyon Road Intersection Improvement
- South Cooper Mountain Infrastructure Study
- Cascade Avenue Safety Improvements



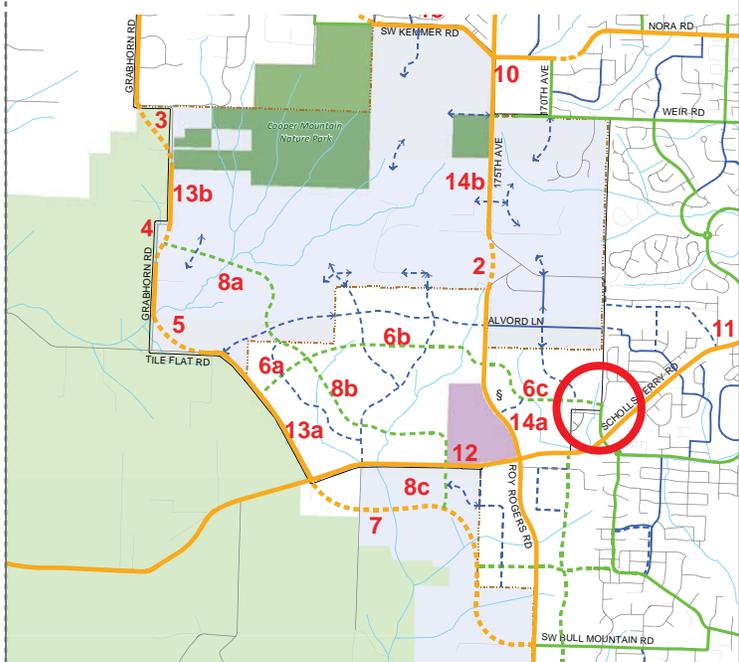
Project Location

Project ID: 3323 Loon Drive Intersection

This project includes preliminary design, coordination and right-of-way acquisition needed to implement the connection of an East-West Collector Road to Loon Drive, as identified in the South Cooper Mountain Community Plan.

The East-West Collector is an important street within the SCM Transportation Framework. The Collector will provide a continuous parallel route to Scholls Ferry Road, connect existing and future neighborhoods, provide a safe route to multiple schools, connect SCM to the existing signal at the Barrows Road intersection and improve emergency access to the area. This project is needed to ensure that the road connection can be made when development occurs in the future.

Preliminary design, traffic analysis and cost estimates are expected Fall 2016 with right-of-way acquisition expected FY17/18. Construction is planned for no later than FY18/19.



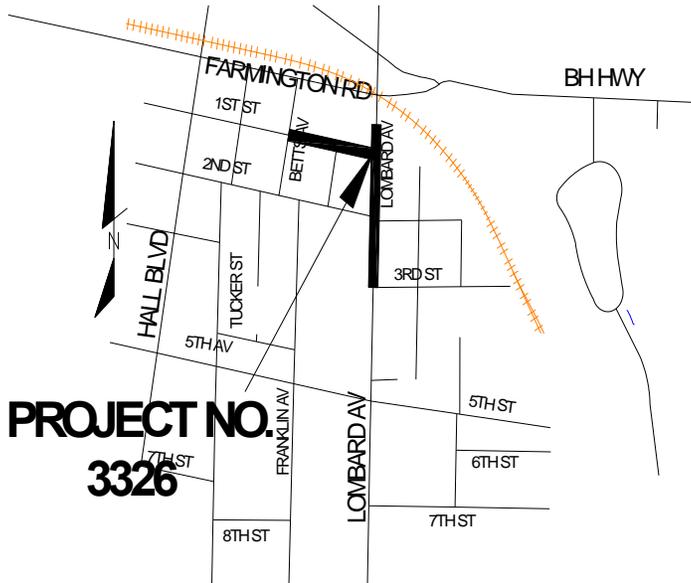
PROJECT DATA

Project ID:	3323
Name:	East-West Collector Connection at Loon Drive
Description:	Construct a 50-foot long, 3-lane Collector stub at Loon Drive with an anticipated right-of-way width of 80-feet
Origin:	South Cooper Mountain Community Plan
Community Vision Action Plan Items:	#51, #53
Neighborhood Association Committee:	Neighbors Southwest
Status:	New - no work completed
Estimated Completion Date:	09/30/2016
Estimated Total Project Cost:	\$297,000
PE, PI, Cost Est.:	\$61,000 (FY15/16)
ROW:	\$To Be Determined
Construction:	\$To Be Determined
First Year Budgeted:	FY15/16
Fund Number:	114
Fund Name:	Transportation Impact Fee (TIF)
Total for FY2015/16:	\$297,000



Project Number: 3326
Project Name: Utility Undergrounding in the Vicinity of 1st Ave and Lombard Ave
Project Description: Underground approximately 1500-2000 feet of overhead utilities in the vicinity of 1st Ave and Lombard Ave.

Map:



Project Justification: Continue undergrounding efforts in "Old Town" to maximize the space available for a full urban street system, to allow buildings to be built at the right of way line, and to reduce damage during a natural disaster.

Project Status: FY15/16: Complete design and begin construction. FY16/17: Complete construction.

Estimated Date of Completion: 10/30/2016

First Year Budgeted: FY15/16

Estimated Project Cost: \$500,000

New Project:

Funding Data:

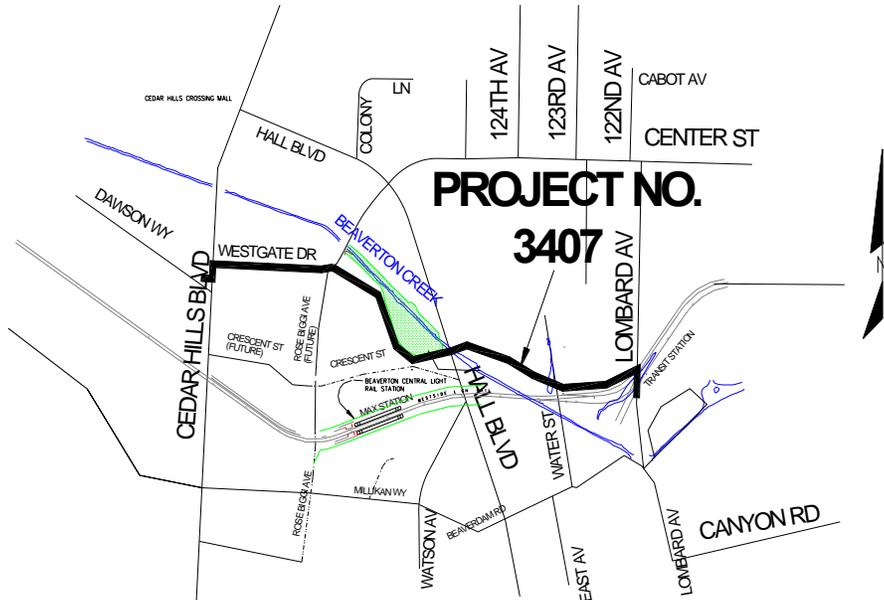
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3326	3307	Utility Undergrounding	\$500,000	FY2015/16
<u>Total for FY:</u>			\$500,000	

Project Number: 3407

Project Name: Crescent Connection Shared Use Path

Project Description: This is an ODOT Flexible Funds and federal aid project. This project will provide a shared use path between the Beaverton Transit Center on Lombard Ave and the Beaverton Central MAX station at Watson Ave and then continue the path to Cedar Hills Blvd.

Map:



Project Justification: The intent of the ODOT Flexible Funds program is to fund sustainable non-highway projects that positively impact modal connectivity, the environment, mobility and access, livability, energy use, and the overall operation of the transportation system. The multi-use path is an important element of the Creekside District Master Plan. It is also a segment of a regional trail system that would connect the Fanno Creek Trail to the future Beaverton Creek Trail.

This project will be able to implement some of the recommendations of the Downtown Creeks Plan.

This project responds to Community Vision Action Plan #18 establishing sidewalks and bikeways, #100 paths and greenways, and #101 establish Beaverton Creek as an urban amenity.

Project Status: FY11-12: City received a \$1.2 million grant under the ODOT Flexible Funds Program on 3-22-12. FY12-13: ODOT IGA 28470 was fully executed on 7-20-12. On 10-8-12 OTAK was selected as the consultant for design services under the ODOT Mini-RFP program. City applied for construction funding under the ODOT STIP Enhance Program on 11-26-12 and the ODOT Transportation Enhancement Program on 12-13-12. Grant applications for construction were unsuccessful. Negotiating contract with OTAK. FY13-14: Determine alignment options under Creekside Master Planning. ODOT issues OTAK a Notice To Proceed and begin design. Removed the Denney Rd section from the federal aid project and created a City only project under CIP 3410. Currently, there are no grant applications submitted to ODOT or other agencies for construction. FY14-15: Determine final alignment, begin design, and estimate right of way needs and costs. ODOT issued NTP to OTAK on 6-23-14. On 7-28-14 ODOT and City agreed that the cost of the alignment alternatives analysis was not an eligible Flex Funds expense. On 9-2-14 City began alignment alternatives analysis. ODOT authorized engineering tasks to begin effective 10-27-14. Preferred alignment presented to City Council 11-18-14. 30% plans completed 1-23-15. 60% plans and environmental closeout completed 4-30-

15. IGA 30648 with ODOT completed 5-12-15. ROW phase began 7-1-15. Change in alignment finalized on 7-31-15. Funding for construction is not certain at this time. FY15-16: Continue design and begin ROW acquisition.

Estimated Date of Completion: 04/30/2016 (PE & ROW)
Estimated Project Cost: \$2,295,000

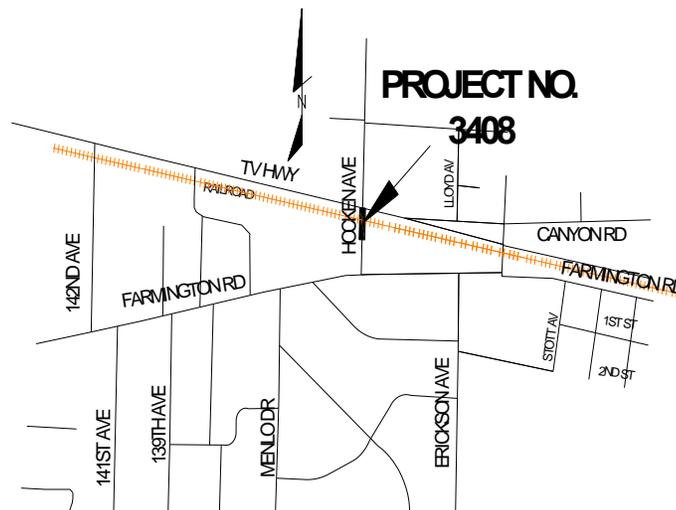
First Year Budgeted: FY12/13
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3407	001	General Fund	\$568,000	FY2015/16
	114	TIF Fund	\$631,000	FY2015/16
	Federal-Flex	ODOT Flexible Funds (Federal)	<u>(\$600,000)</u>	FY2015/16
<u>Total for FY:</u>			\$599,000	

Project Number: 3408
Project Name: Hocken Ave (RR - TV Hwy) Widening
Project Description: Widen Hocken Ave from south of the RR tracks to TV Hwy to four lanes with bike lanes and sidewalks. Project will require the relocation of traffic signal and RR crossing poles, signals and associated equipment to allow for additional paved width and pedestrian access as well as larger turning radii. Project is being designed in coordination with CIP 3302.

Map:



Project Justification: CIP 3302 plans to improve Hocken Ave to 5 lanes with bikes and sidewalk from Farmington Rd to south of the RR tracks. This project will complete roadway improvements through the RR tracks. CIP 3302 will construct improvements from Farmington Rd to south of the RR tracks. This project responds to Beaverton Community Vision Action Plan (CVAP) Items #47 Canyon and Farmington Traffic Improvements and #51 Road System Capacity Planning.

Project Status: FY13/14: Initiated contract with P&W Railroad and XO Rail on 9-12-13 for design services of improvements inside the railroad right of way. On 5-28-14 Wisser Rail Engineering contracted by RR to do crossing design. FY14-15: Contract awarded to Harper, Hoff, Peterson, Righellis (HHPRI) on 8-12-14 for engineering design services outside the railroad right of way. PNWR approved preliminary design concept on 1-19-15. 30% design completed 3-26-15. FY15-16: ODOT determined that the south curbline on Canyon Rd needed to be moved 6'-7' to the north. Design on hold until ODOT establishes the new centerline and curb lines for Canyon Rd. Complete design and acquire ROW. FY16-17: Complete construction

Estimated Date of Completion: 09/30/2017

First Year Budgeted: FY13/14

Estimated Project Cost: \$1,300,000

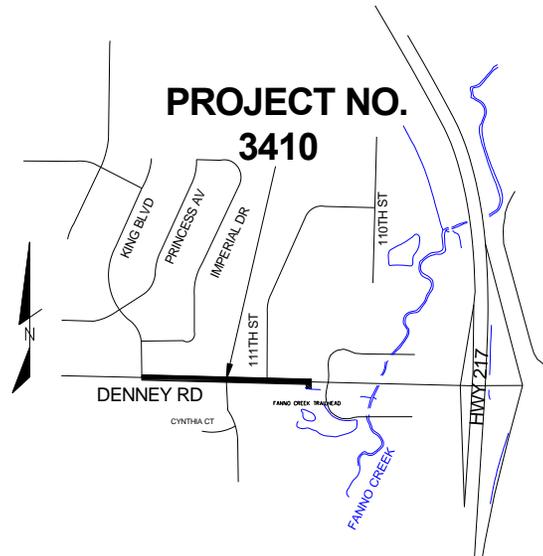
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3408	114	TIF Fund	\$596,000	FY2015/16
	3620	Water Extra Capacity Supply	\$60,000	FY2015/16
<u>Total for FY:</u>			\$656,000	

Project Number: 3410
Project Name: Denney Rd Shared Use Path
Project Description: This project will provide a shared use path on the north side of Denney Rd from the Fanno creek trailhead to King Blvd that will connect to bike boulevards on King Blvd, Alger Ave, and 11th St and to existing bike lanes and shared bikeways on 5th St and Lombard Ave to the Beaverton Transit Center. See CIP 4109 for waterline relocation.

Map:



Project Justification: The intent of the project is to positively impact modal connectivity, the environment, mobility and access, livability, energy use, and the overall operation of the transportation system by improving 1000 feet of existing asphalt sidewalk to a 10-foot wide shared use path. Amendment 1 to COB/ODOT IGA 28470 approved 2-15-15 and requires that City complete CIP 3410 in conjunction with the completion of CIP 3407.

This project responds to Community Vision Action Plan (CVAP) #18 establishing sidewalks and bikeways and CVAP #100 Paths & Greenways.

Project Status: FY11-12: Project originally included in CIP 3407 as part of the grant approved under the ODOT Flexible Funds Program on 3-22-12. FY12-13: Project still included in CIP 3407 and in ODOT IGA 28470 that was executed on 7-20-12. FY13-14: Project removed from CIP 3407 and from the ODOT grant scope of work. OTAK completed survey. City staff began design. FY14-15: 30% design completed 1-30-15. 60% design completed 6-30-15. FY15-16: Complete design and purchase of ROW. FY16-17: Complete construction.

Estimated Date of Completion: 10/30/2017
Estimated Project Cost: \$480,000

First Year Budgeted: FY12/13
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3410	101	Street Fund	\$125,000	FY2015/16
<u>Total for FY:</u>			\$125,000	

Project Number: 3514
Project Name: Surface Parking at 1st and Main
Project Description: Construction of an approximately 22 stall surface parking lot with associated landscaping, lighting, utilities, and frontage improvements.

Map:



Project Justification: The 1st and Main site was purchased by the City with Community Development Block Grant (CDBG) funds in 2006 with the intent to rehabilitate the property to bring it up to current safety codes and preserve affordable housing in the city's downtown core. Upon further inspection of the property, significant issues that were not apparent at the time of purchase became known and the city determined it would be more cost effective to rebuild rather than to bring the property up to code. The tenants were relocated and the buildings were demolished in 2009. The site is currently vacant. Due to the CDBG funding for the site acquisition, the site must continue to benefit low and moderate income residents, or the City may choose to purchase the property from the CDBG Program. Per HUD, in the case where a property is disposed of from the CDBG Program, the funds must be reimbursed in the amount of the current fair market value (FMV) of the property, less any portion of the value attributable to expenditures of non-CDBG funds for acquisition of, and improvements to the property. In this case, it appears all expenditures have been from the CDBG fund. A public policy goal, identified in the Civic Plan and Urban Renewal Plan is to provide for public shared parking. The existing public parking at 1st and Angel will be displaced upon the redevelopment of the block. The 1st and Main property can provide replacement parking to help alleviate the negative impact to the neighborhood caused by the loss of public parking.

Project Status: FY15-16: Complete preliminary design, purchase the property from the CDBG Program for \$170,000 or FMV, update environmental documentation, and obtain permits and land use approval. Begin acquisition for the potential expansion of the project to include tax lot 1S116AD02800, 1S116AD02890 and 1S116AD03100.

Estimated Date of Completion: 06/30/2017
Estimated Project Cost: \$435,000
First Year Budgeted: FY11/12
New Project:

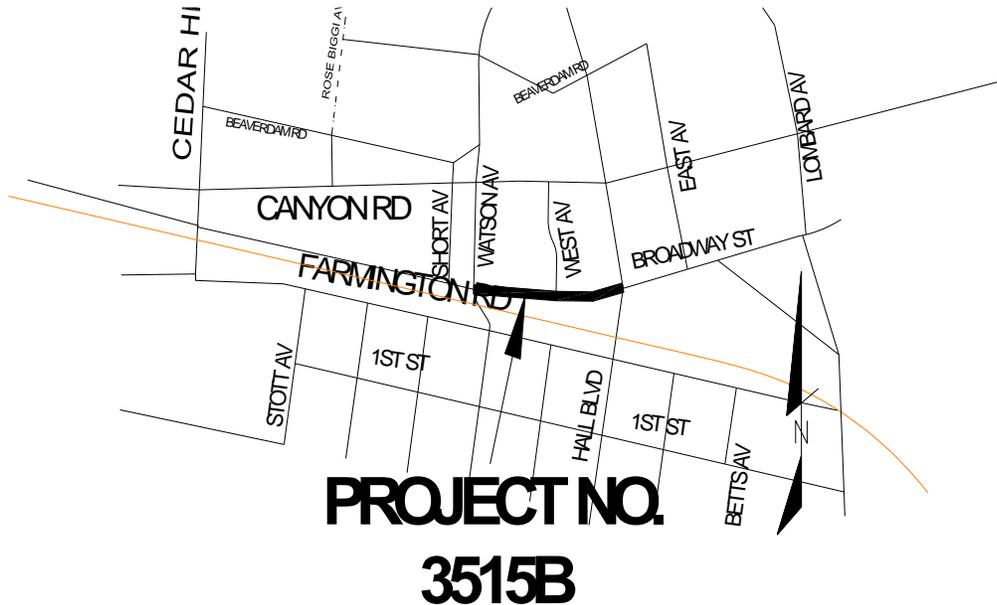
Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3514	001	General Fund	\$265,000	FY2015/16
<u>Total for FY:</u>			\$265,000	

Project Data

Project Number: 3515B
Project Name: Broadway Streetscape Improvements (Watson Ave -Hall Blvd)
Project Description: Improve the south side of Broadway from Watson Ave to Hall Blvd with 12-foot wide sidewalks and brick pavers at the plaza. Other improvements include roadway repaving, street furnishings, relocation of lighting, curb extensions, street trees and a make-over of the Watson/Broadway plaza. Subsequent phases would occur at a later time in coordination with redevelopment of the north side of Broadway.

Map:



Project Justification: Beaverton's Civic Plan approved on 4-12-2011 calls for improvements to Broadway that would make the street more pedestrian, bike, and business friendly environment. This project responds to Community Vision Action Plan (CVAP) #25 - create a "Look and Feel" for downtown. In addition, this project responds to the information received from adjacent business and property owners during open houses held in 2011, 2012, and 2013. The project compliments other planning efforts in the downtown such as the Creekside Master Plan and the planned bikeway on Broadway.

Project Status: Public outreach, preliminary design, and survey work completed between 2011 and 2013. FY13-14: Completed public consensus on scope of project. FY14-15: HHPRI/ZGF Architects contract for engineering services approved 7-23-14. 75% design completed in Dec 2014. 90% design completed in Feb 2015. Bids opened 5-12-15. Kodiak Pacific Construction of Sherwood, OR is the low bidder. Construction began 6-22-15. FY15-16: Complete construction.

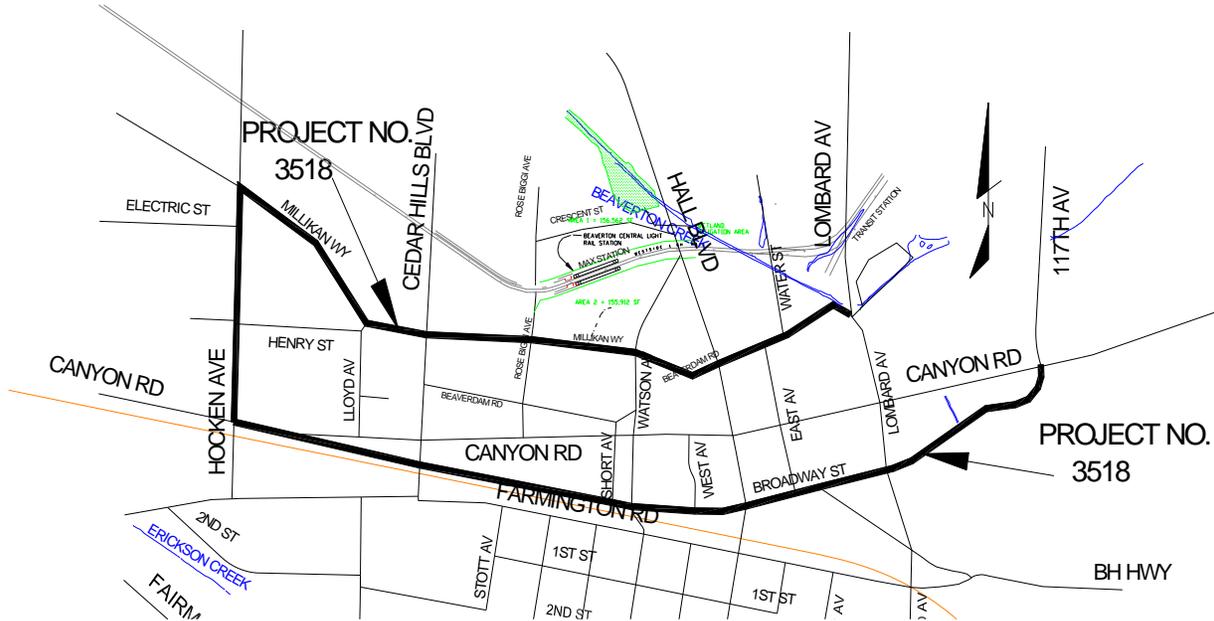
Estimated Date of Completion: 09/30/2015
Estimated Project Cost: \$480,000
First Year Budgeted: FY13/14
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3515B	001	General Fund	\$170,000	FY2015/16
<u>Total for FY:</u>			\$170,000	

Project Number: 3518
Project Name: Canyon Rd Alternative Bike Network
Project Description: Various bike and sidewalk improvements on Millikan Wy (Hocken - Lombard), Hocken Ave (Millikan - Canyon) and Broadway (Canyon - 117th). The City committed to completing this project as part of the MTIP application for the Canyon Rd improvements contained in CIP 3519A.

Map:



Project Justification: The Millikan Wy and Broadway bikeways will serve as a low stress bikeway option paralleling Canyon Rd which will provide safe and comfortable bicycle connections through Central Beaverton and the Creekside District. This project responds to Beaverton Community Vision Action Plan (CVAP) Items #36 Connect Downtown with Neighborhoods and #56 Complete Bike-Pedestrian Network.

Project Status: FY12-13: City received a \$1 million grant under the HUD Sustainable Communities Challenge grant program (award effective date 2/15/12). On 8/20/2012, City signed a contract with Fregonese Associates as the consultant for planning and project management services. Began development of the concept designs for the alternative bikeways and associated improvements. Jan 2013: Nelson\Nygaard Consulting Associates developed project descriptions and planning level costs estimates. FY13-14: 4-2-14: Contract with Wallis Engineering for design services completed. Survey was completed and environmental permitting and design began. 30% plans completed in Jun 2014. FY14-15: 75% plans completed in Oct 2014. CWS SPL application submitted 1-27-15. ROW acquisition began 2-9-15. 1 property acquired 3-26-15. 90% plans received in Mar 2015. FY15/16: Complete ROW acquisition and land partition. Begin construction in the spring of 2016. Construction delayed due to ROW acquisition and completion of land use requirements. FY16-17: Complete construction.

Estimated Date of Completion: 08/31/2016

First Year Budgeted: FY13/14

Estimated Project Cost: \$845,000

New Project:

Funding Data:

Project No.	Fund No.	Fund Name	Amount	FY
3518	001	General Fund	\$152,000	FY2015/16
Total for FY:			\$152,000	

CAPITAL IMPROVEMENT PROGRAM



PROJECT SUMMARY SHEETS

The project sheets describe the origin, cost, funding source, location and status of transportation projects included in the FY15/16 Capital Improvement Program.

- Traffic Calming
- Hocken Avenue Bridge Improvement
- Traffic Enhancement
- Farmington Road Improvement
- Rose Biggi Avenue Extension
- Westgate Dr/Dawson Way Realignment
- Loon Drive Intersection
- Crescent Connection Multi-Use Path
- Hocken Avenue Widening
- Denney Road Multi-Use Path
- Canyon Road Alternate Bike Network
- Broadway Streetscape Improvement
- Canyon Road Intersection Improvement
- South Cooper Mountain Infrastructure Study
- Cascade Avenue Safety Improvements

Project ID: 3519A

Canyon Rd Intersections

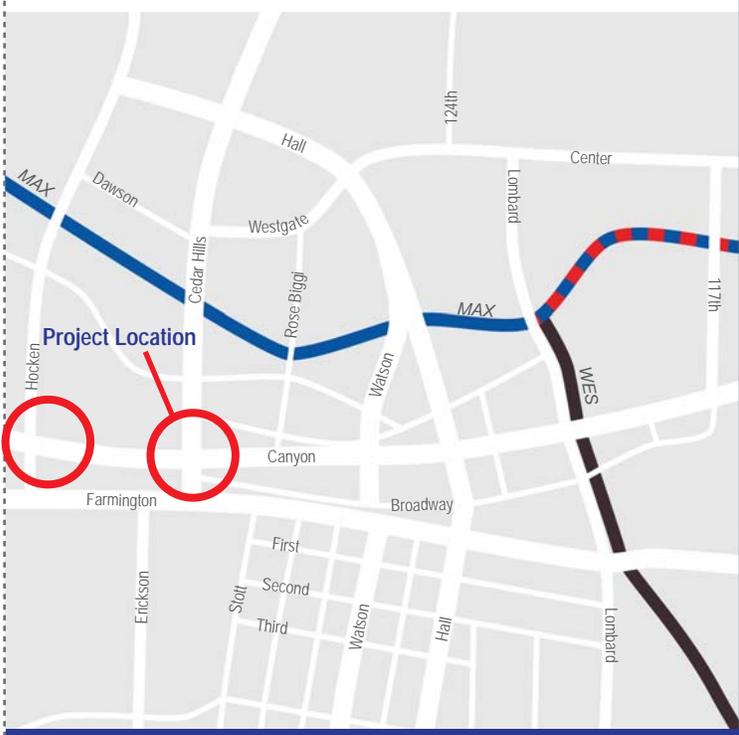
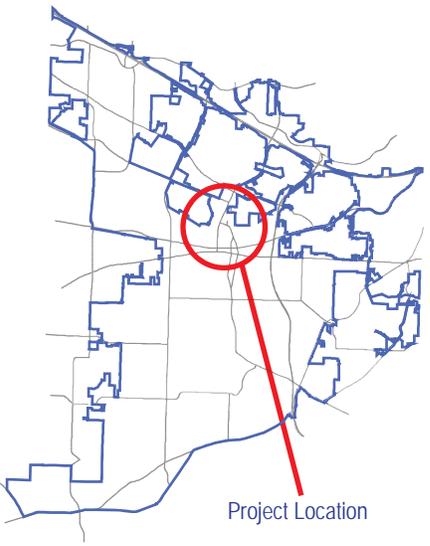
This Metro Transportation Improvement Program funded project is intended to address safety, connectivity and accessibility issues on Canyon Rd between Hocken and 117th Avenues.

The project will upgrade intersections at Hocken Ave, Cedar Hills Blvd, Watson Ave, Hall Blvd and the sidewalk crossing on Beaverton Creek. Improvements include new sidewalks, pedestrian crossings, lighting and signalization. This project complements CIP project ID 3518 (Millikan/Broadway Alternate Bike Routes). Canyon Rd is under the jurisdiction of the Oregon Department of Transportation.

FY12-13: Creekside District Mobility Audit completed. FY13-14: Awarded \$3.5M in federal aid through the MTIP, survey completed. FY14-15: Environmental permit applications and 30% design completed. FY15-16: Complete Intergovernmental agreement with ODOT, begin design and submit TIGER VII grant application.

PROJECT DATA

Project ID:	3519A
Name:	Canyon Rd Intersection Improvements, Metro Transportation Improvement Program (MTIP)
Description:	Construct enhanced pedestrian crossings at select intersections
Origin:	City of Beaverton Civic Plan
Community Vision Action Plan Items:	#2, #18, #20, #25, #37, #47, #56
Neighborhood Association Committee:	Central Beaverton
Status:	New - no work completed
Estimated Completion Date:	06/30/2018
Estimated Total Project Cost:	\$3,940,000
<i>PE, PI, Cost Est.:</i>	\$460,000 (FY15/16)
<i>ROW:</i>	\$To Be Determined
<i>Construction:</i>	\$To Be Determined
First Year Budgeted:	FY15/16
Fund Number:	114
Fund Name:	General Fund, Street Fund

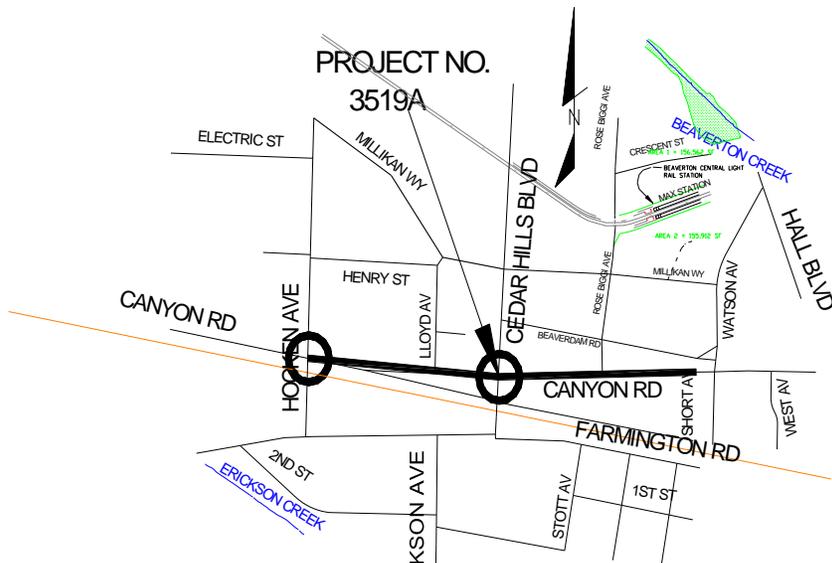


Project Number: 3519A

Project Name: Canyon Rd Intersection Improvements, MTIP

Project Description: This Metro Transportation Improvement Plan project is intended to address safety, connectivity, and accessibility issues on 4,900 feet of Canyon Road between SW Hocken Ave and SW Short St. The project will upgrade intersections at Hocken Ave and Cedar Hills Blvd as well as reconstruct Canyon Rd from west of Hocken Ave to Short St. Improvements include sidewalks, pedestrian crossings, lighting, and signalization. The sidewalk crossing on Beaverton Creek may also be widened. The project requires extensive coordination with ODOT, the agency that has jurisdiction of Canyon Rd. A bike route alternative to Canyon Rd is contained in CIP 3518.

Map:



Project Justification: The Canyon Road Safety and Streetscape project was a recommendation of the 2011 Beaverton Civic Plan, which investigated projects to address Community Vision Actions related to downtown revitalization and transportation. The Creekside District Master Plan, initiated in FY 12-13, included coordination with the ODOT and other stakeholders to develop the Canyon Rd from concept to design. As of FY 14-15, the Creekside District Master Plan is funding preliminary engineering and design work for Canyon Rd. The project responds to the following Beaverton Community Vision Action items: 2,18,20,25,37,47 and 56.

Project Status: FY 12-13: Completed Creekside District Mobility Audit, Canyon Road planning and design sessions with ODOT, preliminary corridor design documents, and draft memorandum of understanding with ODOT; began public outreach. In Apr 2013 applied for Tiger V grant. Application was unsuccessful. See CIP 3310 concerning the HUD Community Challenge grant and Creekside District Master Planning. FY 13-14: In Nov 2013 City received approval of \$3.535 million in Federal aid through the MTIP. City match is \$394,000. OTAK completed survey; continued Creekside District Master Plan work and refinement of design, ODOT coordination and public outreach. In Apr 2014 applied for TIGER VI grant. FY 14-15: Continued Creekside District Master Plan work, ODOT coordination and public outreach; completed environmental permit applications and 30% design. Tiger grant application not approved. Continued coordination with ODOT concerning acceptable design standards. Submitted TIGER VII grant application in Jun 2015. FY15-16: Complete IGA with ODOT and begin design.

Estimated Date of Completion: 09/30/2018
Estimated Project Cost: \$3,940,000

First Year Budgeted: FY14/15

New Project:

Funding Data:

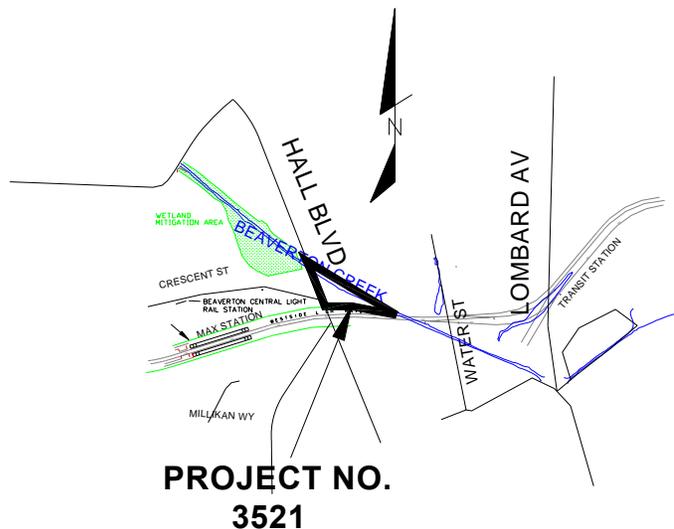
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3519A	001	General Fund	\$230,000	FY2015/16
	101	Street Fund	\$230,000	FY2015/16
	Federal	MTIP (Federal)	\$350,000	FY2015/16
			<u>\$810,000</u>	
			<u>Total for FY:</u>	

Project Data

Civic

Project Number: 3521
Project Name: Creekside Francis Restoration Project
Project Description: The proposed project will include the following activities to convert the currently paved property into mostly riparian habitat area along an approx. 330 foot reach of Beaverton Creek:
 1. Removal of approximately 0.21 acres of impervious asphalt.
 2. Creation of a vegetated floodplain bench via excavation to provide additional flood storage during rain events. The restoration process will include the addition of native plants.
 3. Creation of an overlook that will provide information about healthy creek systems and visual access to a creek that is currently hidden from view.
 4. Widening of the sidewalk using pervious materials.
 5. Retaining walls will have a decorative pedestrian railing
 6. The existing chain link fence on the Hall Blvd Bridge will be replaced with the same (in appearance) pedestrian railing which will then provide additional room on the sidewalk.

Map:



Project Justification: The owner has offered to donate it to the City as a natural area in order to start the first phase of a Creekside District creek enhancement program.

Project Status: FY 14-15: Began negotiations with Randy Francis about property donation. Applied for two grants: National Fish and Wildlife Foundation – Wells Fargo, Five Star and Urban Waters. Agenda Bill 15084 dated 04-21-15 allocated \$110,130 of the remaining Metro NIN local share funds toward this project. CESNW, Inc. selected to provide engineering services. NFWF grant application not approved 6-2-15. FY 15-16: Transfer property title to City. Complete design and environmental permitting. Begin construction. FY 16-17: Complete construction, incorporate signage and public art.

Estimated Date of Completion: 09/30/2016
Estimated Project Cost: \$404,000
First Year Budgeted: FY14/15
New Project:

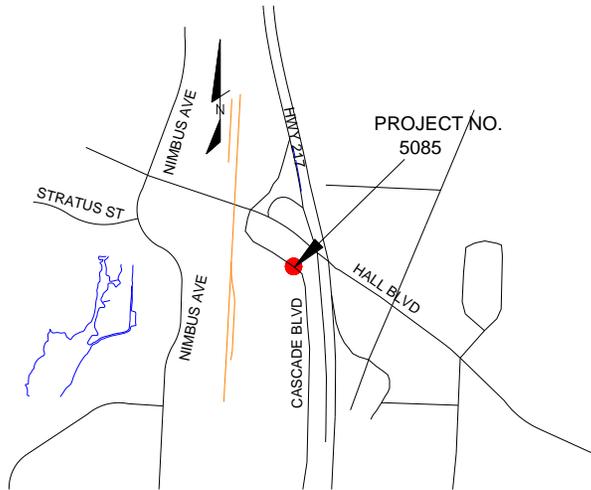
Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3521	3701	Water Improvements	\$3,000	FY2015/16
	3950	Storm Maint/Replacement	\$325,000	FY2015/16
	Grant	Grant (To Be Determined)	(\$80,000)	FY2015/16
	Metro NIN	Grant	(\$110,000)	FY2015/16
<u>Total for FY:</u>			\$138,000	

Project Number: 5085
Project Name: Cascade Ave at Cascade Plaza Parking Structure Pedestrian Crossing Safety Improvements

Project Description: Install Rectangular Rapid Flash Beacons (RRFB). RRFBs are user-actuated amber Light Emitting Diode (LED)s that supplement warning signs at unsignalized intersections or mid-block crosswalks. They are activated by pedestrians manually by pushing a button that activates an irregular flash pattern that is similar to emergency flashers on police vehicles.

Map:



Project Justification: RRFBs are a lower cost alternative to traffic signals that are shown to increase driver yielding behavior at crosswalks significantly when supplementing standard pedestrian crossing warning signs and markings. RRFBs can enhance safety by reducing crashes between vehicles and pedestrians at unsignalized intersections and mid-block pedestrian crossings by increasing driver awareness of potential pedestrian conflicts.

Project Status: FY13-14: Staff completes project understanding with local businesses. FY14-15: Staff begins design. FY15-16: Staff completes design and then gains approval of the design with the Traffic Commission and City Council. Complete construction by City Forces.

Estimated Date of Completion: 09/30/2016 **First Year Budgeted:** FY13/14
Estimated Project Cost: \$40,000 **New Project:**

Funding Data:

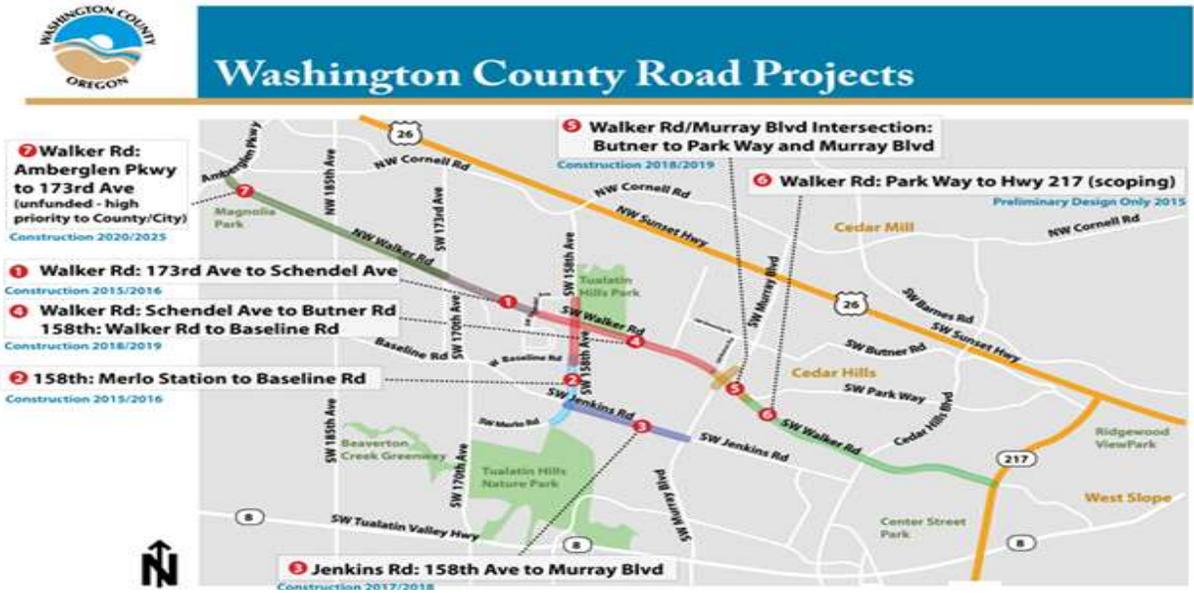
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
5085	3223	Traffic Enhancement	\$40,000	FY2015/16
<u>Total for FY:</u>			\$40,000	

Project Number: 5088

Project Name: Walker Rd (173rd Ave - Butner Rd), MSTIP3D

Project Description: This is a Washington County MSTIP3D project that will improve this section of Walker Road to five lanes (two travel lanes in each direction with a center turn lane) with continuous bicycle and pedestrian facilities. Storm drainage will be upgraded and additional street lighting will be installed. More information about this project can be found at <http://www.co.washington.or.us/LUT/TransportationProjects/walker-rd-west-of-sw-murray-blvd.cfm?page=Activity>

Map:



Project Justification: Remedy safety and congestion problems identified by the County and community in the Major Streets Transportation Improvement Program (MSTIP 3).

Project Status: In 2013, Nike announced a significant expansion of its World Headquarters campus that began in late 2013. To minimize potential traffic impacts, the County will delay the start of the Walker Road project until 2016. Walker Rd construction for 174th Ave to Schendel Ave starts in 2016. The segment from Schendel Ave to Butner Rd begins in 2018.

Estimated Date of Completion: 2018/19 First Year Budgeted: FY14/15

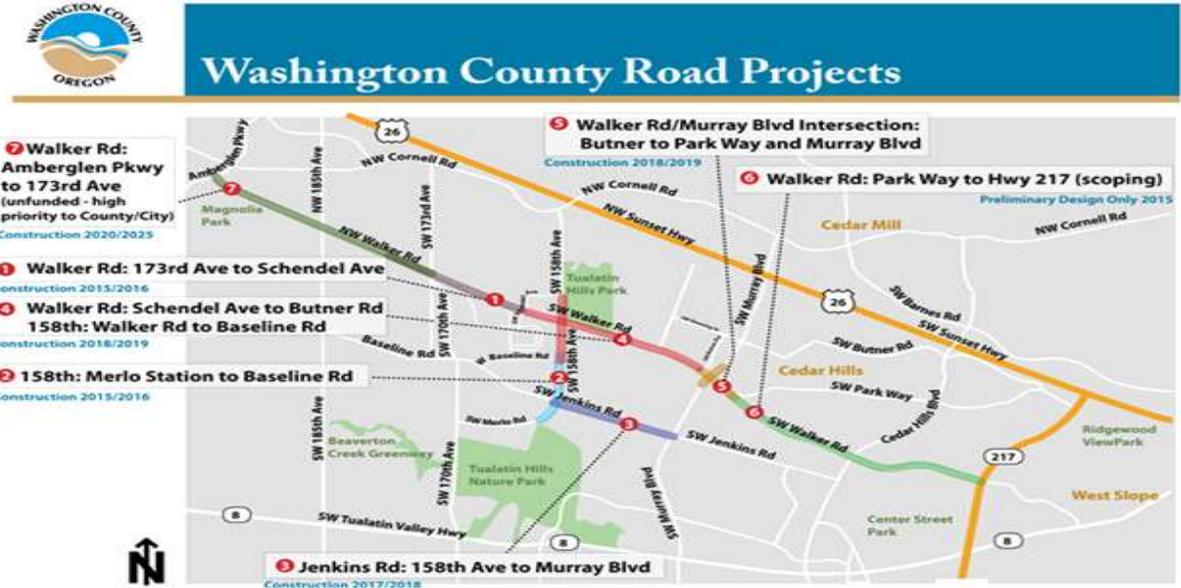
Estimated Project Cost: \$15,700,000 New Project:

Funding Data:

Project No.	Fund No.	Fund Name	Amount	FY
5088	3950	Storm Maint/Replacement	\$5,000	FY2015/16
Total for FY:			\$5,000	

Project Number: 5089
Project Name: Murray/Walker Intersection & Replacement Bridges, MSTIP 3D
Project Description: Provide assistance to Washington County in the design of intersection improvements at Murray Blvd and Walker Rd and bridge replacements that are part of a MSTIP3D project.

Map:



Project Justification: Remedy safety and congestion problems identified by the County and community in the Major Streets Transportation Improvement Program (MSTIP 3d) and possibly improve the floodplain.

Project Status: Construction is anticipated to commence in 2015.

Estimated Date of Completion: 2016-2017

First Year Budgeted: FY14/15

Estimated Project Cost:

New Project:

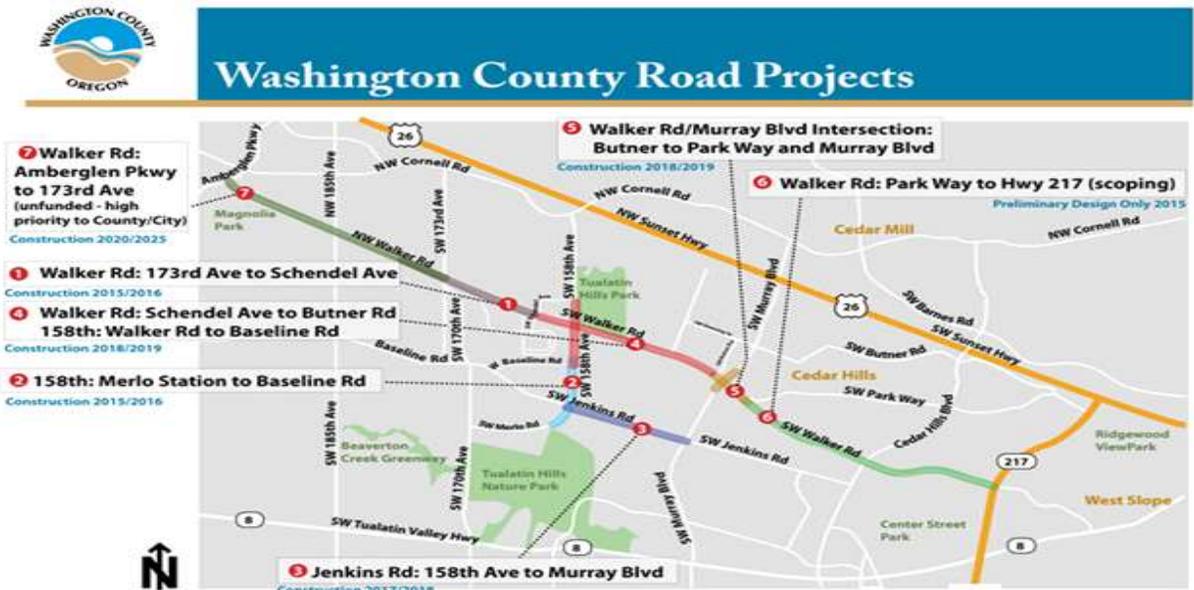
Funding Data:

Project No.	Fund No.	Fund Name	Amount	FY
5089	3950	Storm Maint/Replacement	\$5,000	FY2015/16
Total for FY:			\$5,000	

Project Number: 5090
Project Name: Jenkins Rd (158th Ave - Murray Blvd) & 158th Ave (Baseline Rd - Merlo LRT), MSTIP3D

Project Description: The proposed improvements include widening SW Jenkins Road, from SW 158th Avenue to SW Murray Boulevard to a consistent five-lane cross section (4 travel lanes and a continuous center left turn lane) with bike and pedestrian facilities. The project will also include bridge and culvert upgrades and modifications, illumination, limited landscaping enhancements, and traffic signal upgrades as warranted. Additional left and right turn lanes will be designed on an as-needed basis.

Map:



Project Justification: Remedy safety and congestion problems identified by the County and community in the Major Streets Transportation Improvement Program (MSTIP 3d).

Project Status: 158th Avenue and Jenkins Road are anticipated to begin construction in 2016 and 2017 respectively with completion by Fall 2018.

Estimated Date of Completion: Fall 2018

First Year Budgeted: FY14/15

Estimated Project Cost:

New Project:

Funding Data:

Project No.	Fund No.	Fund Name	Amount	FY
5090	3950	Storm Maint/Replacement	\$5,000	FY2015/16
Total for FY:			\$5,000	

THIS PAGE LEFT INTENTIONALLY BLANK

Street Rehabilitation Program
FY 2015-2016

FY 2015-16 STREET REHABILITATION PROGRAM

STREET NAME	FROM STREET	TO STREET	PCI	TONS	COST OF OVERLAY
SW 100TH TER	SW DENNEY RD	SW CYNTHIA ST	63	84	\$ 6,402.24
SW 101ST AVE	SW HEATHER LN	SW MARJORIE LN	64	375	\$ 28,511.31
SW 102ND AVE	SW HEATHER LN	SW MARJORIE LN	66	393	\$ 29,848.67
SW 103RD AVE	SW DENNEY RD	EOP	64	335	\$ 25,495.14
SW 105TH AVE	SW DENNEY RD	EOP	62	270	\$ 20,510.88
SW CYNTHIA ST	SW 105TH AVE	EOP	75	132	\$ 10,015.95
SW CYNTHIA ST	SW 103RD AVE	SW 99TH PL	68	126	\$ 9,589.66
SW MARJORIE LN	SW SCHOLLS FERRY RD	EOP	59	370	\$ 28,150.89
NW BLUERIDGE DR	NW GREENBRIER PKWY	NW 158TH AVE	70	528	\$ 40,120.70
NW SCHLOTTMAN PL	EOP	NW GREENBRIER PKWY	68	157	\$ 11,950.85
NW BERNARD PL	EOP	EOP	63	239	\$ 18,153.91
SW BROADWAY	SW HALL BLVD	SW CEDAR HILLS BLVD	53	2058	\$ 156,404.35
SW CIRRUS DR	SW NIMBUS AVE	SW HALL BLVD	64	1104	\$ 83,939.06
SW NIMBUS AVE	SW SCHOLLS FERRY RD	CONCRETE PANELS	63	52	\$ 3,983.62
SW CASCADE AVE	CONCRETE	SW SCHOLLS FERRY RD	62	938	\$ 71,306.73
SW BANY RD	SW HART RD	CITY LIMITS	71	311	\$ 30,500.00
SW 156TH PL	EOP (SOUTH)	SW BRIDLE HILLS DR	71	53	\$ 4,007.33
SW 158TH PL	EOP (NORTH)	SW BRIDLE HILLS DR	75	62	\$ 4,694.98
SW GLENEDEN CT	SW GLENEDEN DR	EOP	75	47	\$ 3,585.25
SW GLENEDEN DR	SW 155TH AVE	SW GEARHART DR	72	355	\$ 27,010.81
SW MISTY CT	SW 157TH AVE	EOP	79	84	\$ 6,402.24
SW 157TH AVE	SW HART RD	SW BRIDLE HILLS DR	67	202	\$ 15,348.30
SW BRIDLE HILLS DR	EOP	SW BRIDLE HILLS DR	74	681	\$ 51,730.10
SW BEVERLY BEACH CT	SW 155TH AVE	EOP	73	184	\$ 13,956.88
SW 156TH AVE	SW MELINDA DR	SW BEVERLY BEACH CT	70	351	\$ 26,708.25
SW BARROWS RD	SW 154TH AVE	SW ROSHAK RD	51	1862	\$ 141,475.28
SW CENTER ST	SW WESTGATE DR	SW 117TH AVE	53	2058	\$ 156,404.35
SW GEM LN	EOP	SW CEDAR HILLS BLVD	70	185	\$ 14,083.03
STRIPING, SIGNAL DETECTION, SURVEYING, TESTING					\$ 20,000.00
CONCRETE REPAIRS					\$ 20,000.00
ADA RAMPS					\$ 40,000.00
MISC. PROJECTS					\$ 10,000.00
					\$ 1,130,290.75

STREET SECTIONS THAT MAY BE ADDED TO THE 2015-16 STREET OVERLAY LIST:

SW MILLIKAN WY	SW WATSON AVE	SW ROSE BIGGI AVE
----------------	---------------	-------------------

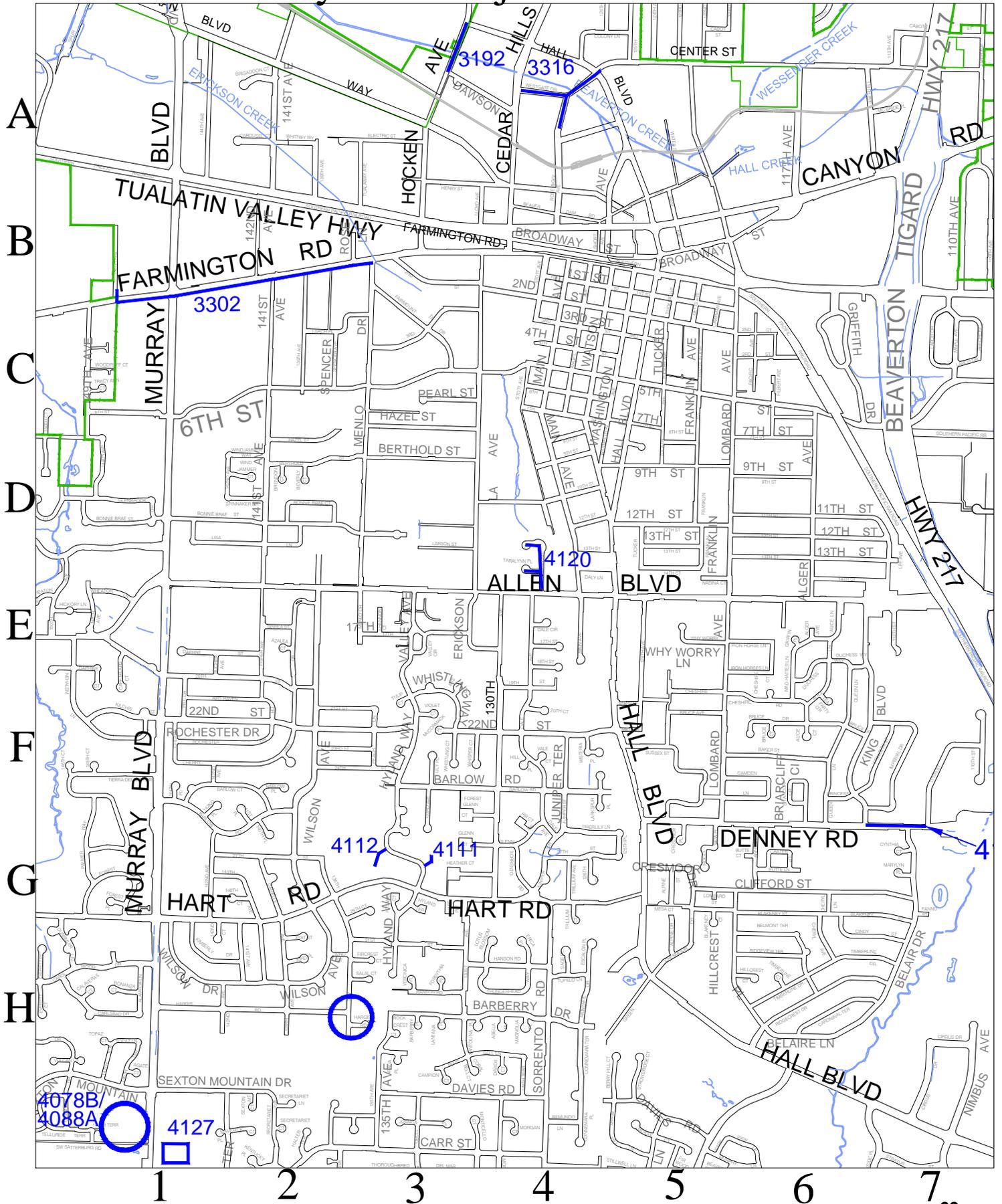
Water System Improvement Projects
FY 2015-2016

Water System Improvement Projects – Map Key

<u>Project No.</u>	<u>Project Name</u>	<u>Map Location</u>
3192*	Hocken Ave Bridge and Street Improvements at Beaverton Creek - see Transportation & Civic Section for project details	A3, pg 69
3302*	Farmington Rd (Hocken-Murray), MSTIP 3D - see Transportation & Civic Section for project details	B2, pg 69
3316*	Rose Biggi Ave Extension (Crescent St-Hall Blvd) - see Transportation & Civic Section for project details	A4, pg 69
3635	JWC Projects	NA
4021D*	Aquifer Storage and Recovery (ASR) Well No. 5	H2, pg 69
4021F*	Aquifer Storage and Recovery (ASR) Well No. 6	E2, pg 70
4021G*	South Cooper Mtn (Non-Potable Water) from ASR Well No. 3	H2, pg 70
4058A*	Cooper Mountain Reservoir #2 (5 MG)	E1, pg 70
4078B*	Sexton Mtn Pump Station Upgrade, Phase 2	H1, pg 69
4083	Duncan Ln (Jamieson to the West) Waterline Upgrade	A5, pg 70
4088A	Sexton Mountain 15MG Reservoir Solar Project	H1, pg 69
4107*	Meridian Pump Station Upgrade	G4, pg 70
4109*	Denney Rd (105th Ave - Rollingwood Dr and King Blvd - Belaire Dr) 12-inch Waterline	D2 - D4, pg 70
4111*	Hyland Way Ct Waterline Replacement	G3, pg 69
4112*	Hyland Park Ct Waterline Replacement	G2, pg 69
4120*	Taralynn Ave (Allen Blvd - EOP) Waterline Replacement	D4, pg 69
4126*	Willamette River Supply System	NA
4127*	Future Sexton Mountain Reservoir Site Preparation	H1, pg 69
4128*	TVWD Cooperative Water Projects	NA
4129*	WSWD Cooperative Water Projects	NA
6083*	South Cooper Mountain Infrastructure Study - see Sanitary Section for project details	NA
6093*	Royal Woodlands South Utility Improvements - see Sanitary Section for project details	C5, pg 70

* Denotes multi-year project

Water System Projects FY 2015-2016



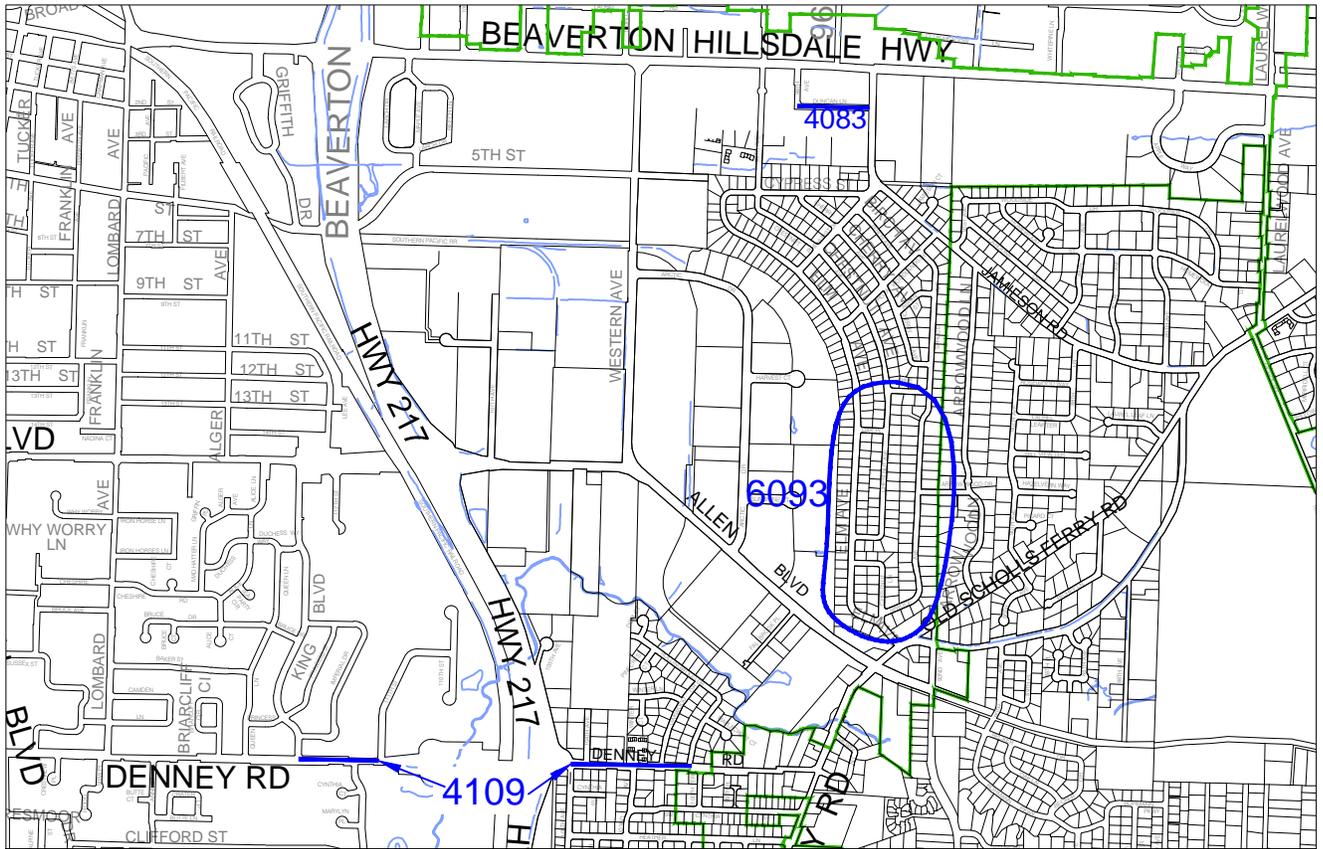
Water System Projects FY 2015-2016

A

B

C

D



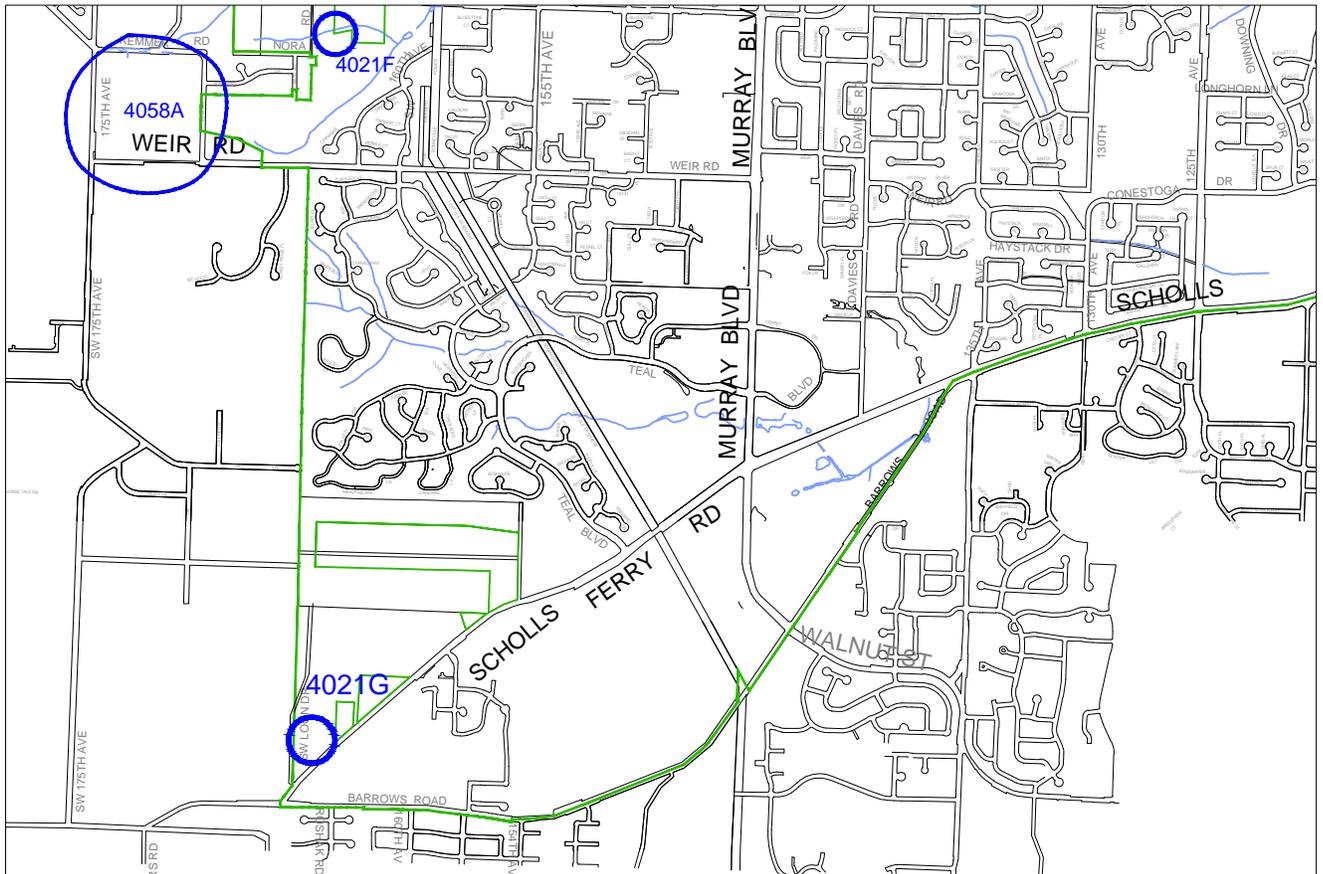
E

F

G

H

I



1

2

3

4

5

6

70

Project Data

Water

Project Number: 3635

Project Name: JWC Projects

Project Description: Capital projects to improve and maintain Joint Water Commission (JWC) facilities. In 1980, Beaverton obtained ownership rights to the JWC water supply and transmission system. The City's drinking water originates from the JWC Water Treatment Plant (WTP) south of Forest Grove. Beaverton owns a 18.75-million gallon per day share of water treatment plant capacity and shares of other supply system facilities. The JWC supply system has a total capacity of 75 million gallons per day (MGD) and is jointly owned by the cities of Hillsboro, Beaverton, and Forest Grove, and the Tualatin Valley Water District.

Project Justification: Provide potable water supply to the City of Beaverton that meets current and future needs.

Project Status: Various projects to replace and/or upgrade existing JWC facilities (treatment plant, finished water storage, and transmission lines). CIP 3635 includes both capacity projects from funding source 3635 (there are none programmed for FY15-16) and maintenance projects listed in the Water Finance Plan from funding source 3611.

Estimated Date of Completion: 06/30/2016

Estimated Project Cost: \$611,500

First Year Budgeted: FY99/00

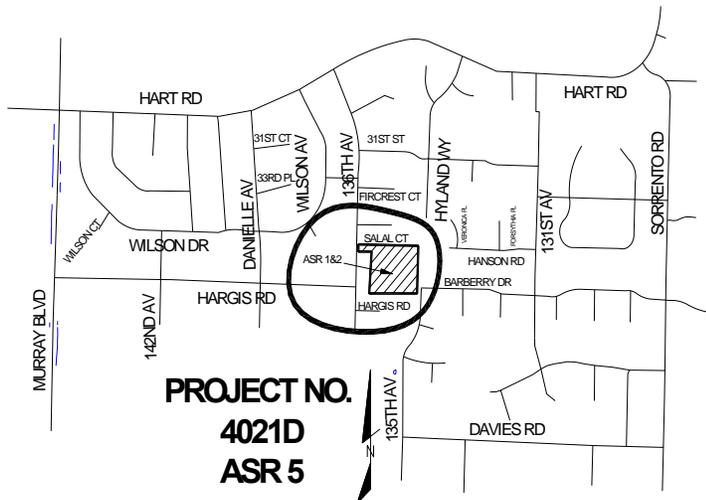
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3635	3611	JWC Maint/Replacement	\$611,500	FY2015/16
<u>Total for FY:</u>			\$611,500	

Project Number: 4021D
Project Name: Aquifer Storage and Recovery (ASR) Well No. 5
Project Description: Program staff will proceed with substantial preliminary design work for the ASR Well No. 5 project in FY 2015-16 using loan and loan-forgiveness funds from the State of Oregon and the US EPA. ASR No. 5 is proposed to replace and offset the loss in ASR capacity from existing ASR No. 1 and add new pumping capacity of an additional 1 million gallons per day of potable water. The proposed project, ASR No. 5 well and pumping station, will have a total peak-capacity of two million gallons per day. Construction of ASR Well No. 5 is planned at the existing Sorrento Reservoir and Pump Station site owned by the City of Beaverton. City engineering staff expects to bid, award and construct a 400 foot-deep ASR production well in the summer of 2015 for ASR 5. The well borehole will be drilled to a 24-inch diameter with a 20-inch diameter steel casing to full depth.

Map:



Project Justification: Expanding ASR capacity by 2 mgd, using ASR Well No. 5, will increase the reliability and capacity of supply both for the City of Beaverton and indirectly for our JWC partners. An increase in 2 mgd during average peak season water demand will provide for an equivalent supply of potable water to approximately 15,800 new Beaverton residents (using current average-day per capita water use) as Beaverton’s population grows and in case of an emergency when water supply from the JWC is interrupted.

Project Status: FY14-15: Complete preliminary design and land use. FY15-16: Complete final design and bidding and begin construction. FY16-17: Complete construction.

Estimated Date of Completion: 06/30/2017

First Year Budgeted: FY05/06

Estimated Project Cost: \$3,450,000

New Project:

Funding Data:

Project No.	Fund No.	Fund Name	Amount	FY
4021D	3620	Water Extra Capacity Supply	\$1,600,000	FY2015/16
Total for FY:			\$1,600,000	

Project Data

Project Number: 4021F
Project Name: Aquifer Storage and Recovery (ASR) Well No. 6
Project Description: Develop Aquifer Storage and Recovery (ASR) No. 6

Map:



Project Justification: The City recognized a unique opportunity to site this Aquifer Storage and Recovery (ASR) facility in a location that maximizes its ability to serve both local residents and future residents city-wide. In September, 2014, City Council authorized drilling of a 1,100-ft. deep test well to prove feasibility as to whether a local aquifer within the Reserve at Cooper Mountain (RCM) subdivision is suitable for further development. After hydrogeologic test results from the six-inch test well indicated that a large-diameter ASR production well was feasible within the RCM, City Council authorized the purchase of lots 39 and 40 in the RCM subdivision.

Project Status: FY14-15: Started land use, completed preliminary design, and secured an amendment to homeowner association covenants, conditions and restrictions (CC&Rs) to allow siting of water facilities on the proposed lots, completed construction of 6-inch test well, completed the purchase of Lots 39 and 40 in the RCM and began installation of a 24-inch diameter production well. Because the RCM is still developing and is not fully built out, the City decided to complete drilling the production well as soon as possible to minimize the noise impacts to existing and future neighbors. FY 15-16: Complete final design, bidding and construction of a 24-inch production well. The City's future pump station building will be housed in a structure that resembles a residential home, designed to blend in with the surrounding homes, and would be able to serve drinking water to all residents within the City limits. Timeline for the construction of the future pump station is dependent on demand in the upper pressure zone area.

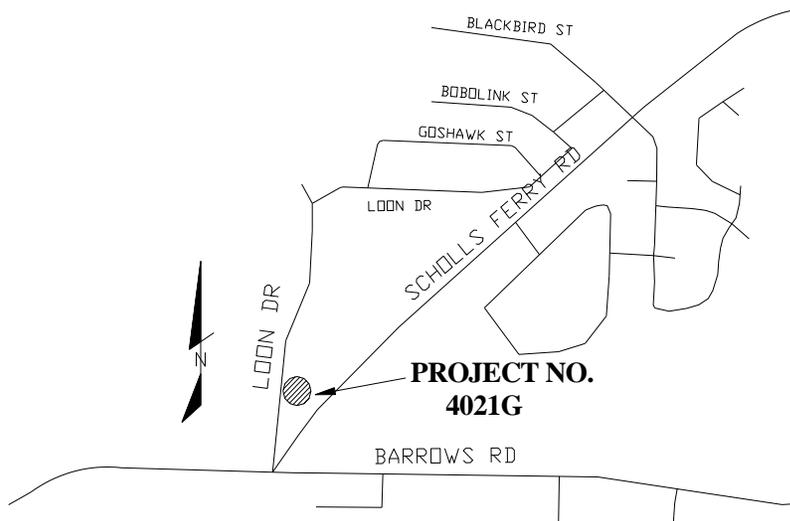
Estimated Date of Completion: 2020 **First Year Budgeted:** FY14/15
Estimated Project Cost: \$3,200,000 **New Project:**

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4021F	3620	Water Extra Capacity Supply	\$100,000	FY2015/16
<u>Total for FY:</u>			\$100,000	

Project Number: 4021G
Project Name: South Cooper Mtn (Non-Potable Water) from ASR Well No. 3
Project Description: To partially mitigate the increase in water demand which is related to non-potable water use such as irrigation, outdoor use, toilet flushing, and decorative fountains in the South Cooper Mountain (SCM) annexation area, the City is planning for a non-potable (purple pipe) system which will use native groundwater from a 1,000-foot deep existing well drilled in 2000 into a local deep-basalt aquifer (see CIP 4021A). The well was originally drilled and intended as an Aquifer Storage and Recovery well, ASR Well No. 3 for potable water. Other locations and underground formations for ASR in Beaverton proved to be lower cost and higher water drinking quality for ASR, so ASR No. 3 was held in reserve for future development. A well-pumping system will be developed and purple-pipe water distribution system that will extend from SW Loon Dr, near Scholls Ferry Rd to the west and ending at SW 175th Ave on the easterly side of the new Beaverton School District high school planned for opening in the fall 2017.

Map:



Project Justification: With the annexation of the 544-acre SCM area in January 2013, an additional 8,000 people may be added to the City's upper elevation water service area within the next 20 years, and 12,000 more may be added when the remaining Urban Reserve 6B is brought into the Urban Growth Boundary. An infrastructure study (CIP No. 6083), which is part of the concept plan, requires extensive evaluation of potable water supply and service needs and projected costs to ensure provision of water service and fire protection for a fully developed area.

Project Status: FY 15-16: Engineering staff will, with the assistance of hydrogeological and engineering consultants, prepare preliminary design for the needed pump station and purple pipe distribution system.

Estimated Date of Completion: 06/30/2016

First Year Budgeted: FY15/16

Estimated Project Cost: \$600,000

New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4021G	3620	Water Extra Capacity Supply	\$250,000	FY2015/16
<u>Total for FY:</u>			\$250,000	

Project Number: 4058A
Project Name: Cooper Mountain Reservoir #2 (5 MG)
Project Description: Install Cooper Mountain Reservoir No. 2 to serve upper elevations of southwest Beaverton and approximately 8,000 feet of large diameter transmission pipelines.

Map:



COOPER MOUNTAIN RESERVOIR NO. 1 (5 MILLION GALLONS)
COOPER MOUNTAIN NO. 2 TO LOOK SIMILAR

Project Justification: An engineering consultant study in 2008 concluded that growth in water demand in the City's upper-elevation water service area will exceed the capacity of the existing 5.5 million gallon reservoir on Cooper Mountain (Cooper Mountain Reservoir No. 1). Approximately 15,000 of the total 70,000 residents served by Beaverton's water system receive drinking water from the existing upper-elevation water system and storage reservoir, Cooper Mountain No. 1. With the annexation of the 544-acre South Cooper Mountain area and growth in other upper-elevation areas of Beaverton, an estimated additional 21,500 people may be added to the City's upper elevation water service area by 2040.

Project Status: FY13-14: In 2013, the City's Public Work's engineering staff and a consultant completed an alternatives study of potential locations for a future water storage reservoir, which would store up to approximately 5 million gallons, located near the top of Cooper Mt (see CIP 4058). FY14-15 through FY15-16: Continue working toward securing a site and complete preliminary engineering.

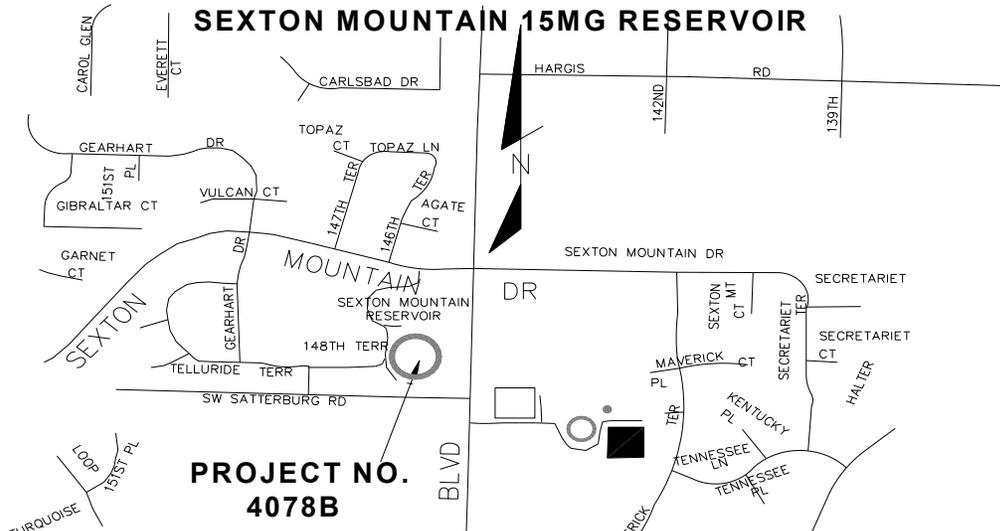
Estimated Date of Completion: 2021 **First Year Budgeted:** FY14/15
Estimated Project Cost: \$12,500,000 **New Project:**

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4058A	3620	Water Extra Capacity Supply	\$175,000	FY2015/16
<u>Total for FY:</u>			\$175,000	

Project Number: 4078B
Project Name: Sexton Mtn Pump Station Upgrade, Phase 2
Project Description: Upgrade pumping capacity, emergency backup power, telemetry, chlorination, and controls at the Sexton Mountain pump station originally constructed in 1994. Work also includes enlargement of the pump station building and various interior building modifications. Additional valving and pumping improvements are anticipated off-site to fully achieve the desired pumping efficiency and capacity objectives.

Map:



Project Justification: Project is to increase pumping efficiency and capacity in order to convey additional water to developing areas on Cooper Mountain and southwest Beaverton.

Project Status: FY11-12: Complete final planning and begin preliminary design. FY12-13 through FY14-15: Continue preliminary design to include expanding the building footprint, updating disinfection equipment and HVAC improvements. FY15-16: Complete design.

Estimated Date of Completion: 2020 **First Year Budgeted:** FY11/12

Estimated Project Cost: \$1,000,000 **New Project:**

Funding Data:

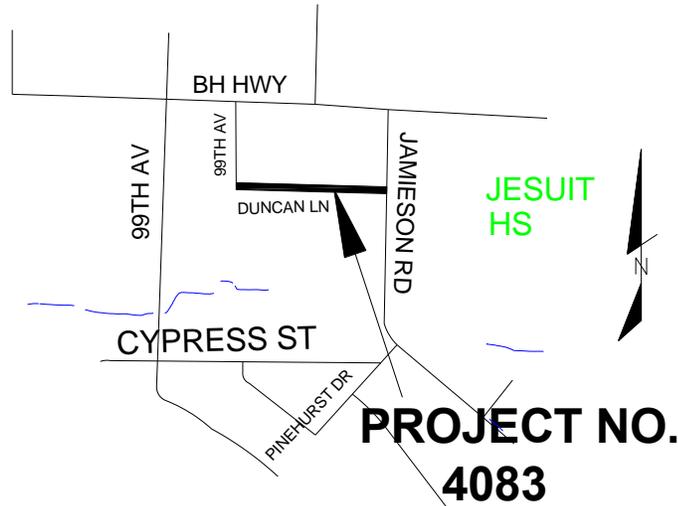
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4078B	3701	Water Improvements	\$50,000	FY2015/16
<u>Total for FY:</u>			\$50,000	

Project Data

Water

Project Number: 4083
Project Name: Duncan Ln (Jamieson to the West) Waterline Upgrade
Project Description: Replace the existing 4-inch waterline with 670 feet of 6-inch water line and associated water services on Duncan Ln between Jamieson Rd and the west end of Duncan Ln.

Map:



Project Justification: The project area is currently served with an old 4-inch cast iron pipe that does not provide adequate fire protection and domestic service to the area.
Project Status: FY14/15: Need for project determined. FY15/16: Design by City staff and construct with City Forces.

Estimated Date of Completion: 06/30/2016
Estimated Project Cost: \$100,000
First Year Budgeted: FY14/15
New Project:

Funding Data:

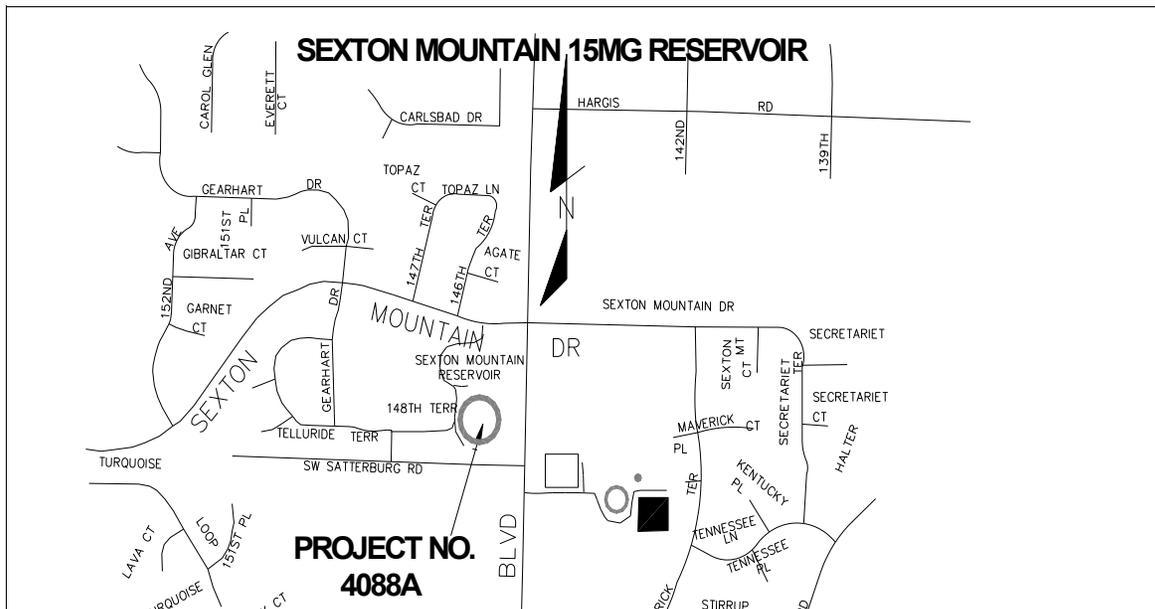
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4083	3701	Water Improvements	\$50,000	FY2015/16
<u>Total for FY:</u>			\$50,000	

Project Number: 4088A

Project Name: Sexton Mountain 15MG Reservoir Solar Project

Project Description: The Beaverton City Council authorized the installation of a 433 kW solar-panel array on top of the Sexton Mountain Water Storage Reservoir, and the work is being completed by Oak Leaf Energy partners through a Power Purchase Agreement (PPA) with Portland General Electric (PGE). Due to security requirements, a 6-foot chain link fence will be installed around the solar-panel array and the Sexton Mountain Pump Station. As part of the project, the city will be installing some additional landscaping around the site, and also a walkway to connect an existing gap between the townhomes to the south an existing paved access road that leads to Sexton Park north of the city's reservoir property. Additional details can be found on the city's project website: [Sexton Solar Website](#).

Map:



Project Justification: The Sexton Mountain Water Storage Reservoir is a critical public asset, storing 15 million gallons of drinking water. The city's water pumping station adjacent to the reservoir is the largest electrical power user in the city's water system. This project will allow the city to receive lower-cost electrical power rates and save taxpayer dollars, while utilizing solar energy to help offset the pumping of drinking water to residents on the west side of Cooper Mountain. The city was awarded a \$355,000 grant from the Energy Trust of Oregon (ETO) to enter into a PPA to construct the solar array.

Project Status: FY14-15: Project is underway and expected to be complete and generating power by the end of July 2015. FY15-16: Complete construction.

Photo:



Estimated Date of Completion: 06/30/2016
Estimated Project Cost: \$380,000
First Year Budgeted: FY14/15

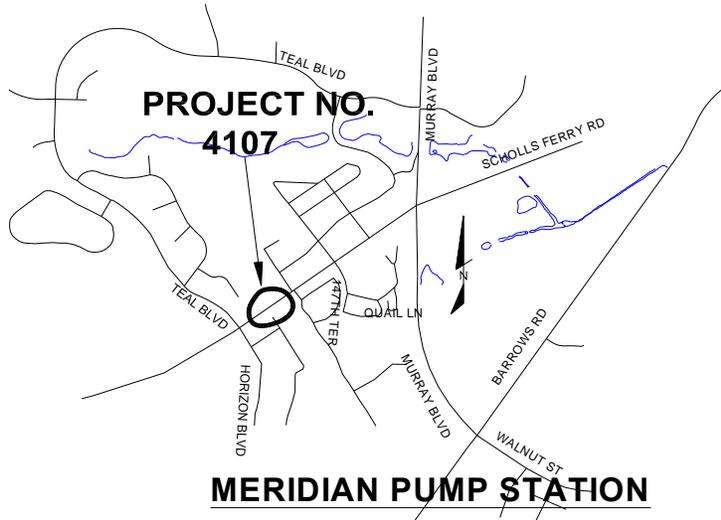
Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4088A	3701	Water Improvements	\$5,000	FY2015/16
	Grant-ETO	Energy Trust of Oregon	\$355,000	FY2015/16
			<u>Total for FY:</u>	\$360,000

Project Data

Project Number: 4107
Project Name: Meridian Pump Station Upgrade
Project Description: Existing pump station and controls are housed in an underground vault with access limitations. Meridian pump station upgrades include installing new larger capacity pumps, telemetry, controls, and relocated pump station building.

Map:



Project Justification: Project is to increase pumping efficiency to reduce energy costs and also provide additional flexibility in filling the 1 million gallon reservoir that serves the 410 pressure zone.

Project Status: FY14-15: Complete preliminary design and land use. FY15-16: Complete final design and bidding. FY16-17: Complete construction.

Estimated Date of Completion: 6/30/2018

First Year Budgeted: FY13/14

Estimated Project Cost: \$1,500,000

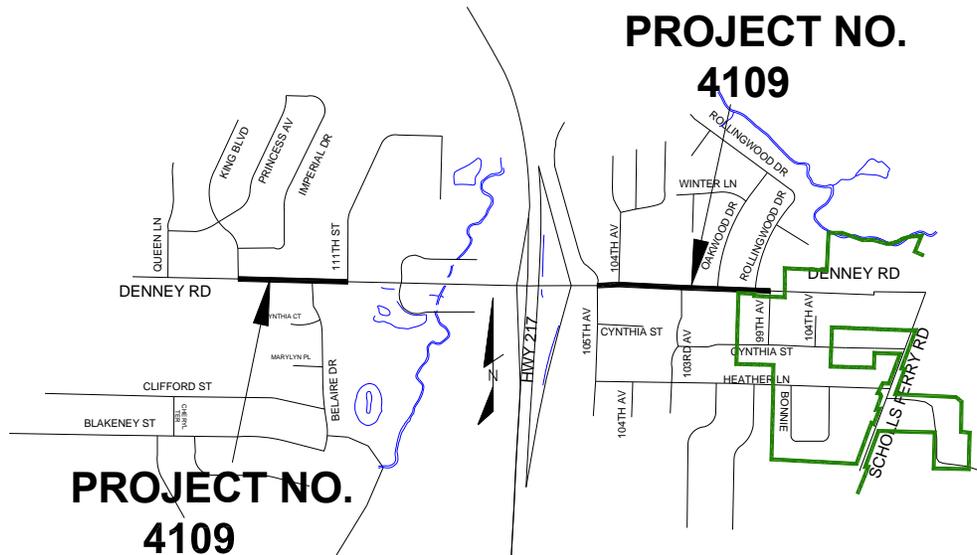
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4107	3620	Water Extra Capacity Supply	\$200,000	FY2015/16
<u>Total for FY:</u>			\$200,000	

Project Number: 4109
Project Name: Denney Rd (105th Ave - Rollingwood Dr and King Blvd - Belaire Dr) 12-inch Waterline
Project Description: Install 1,150 feet of 12-inch DIP waterline in Denney Rd from 105th Ave to Rollingwood Dr near Hwy 217 that will serve as a bypass for an aging 16-inch waterline and ensure uninterrupted service for approximately 300 homes in case of a main break on the 16-inch line. Also, extend a 12-inch waterline from King Blvd to 111th St and abandon a 6-inch cast iron waterline between King Blvd and Belaire Dr that conflicts with the construction of the Denney Rd multi-use path (see CIP 3410).

Map:



Project Justification: The existing 16-inch concrete cylinder pipe was installed in 1965 and is nearing the end of its useful life and is in need of replacement. Additionally, portions of this system are not looped and a failure of the main waterline in this neighborhood would result in several blocks of homes (approximately 300 residences) without water until the repair could be completed.

Project Status: FY13/14: Completed topographic survey and preliminary layout. Begin design. FY14/15: Design by City staff and construction.

Estimated Date of Completion: 10/31/2016

First Year Budgeted: FY13/14

Estimated Project Cost: \$525,000

New Project:

Funding Data:

Project No.	Fund No.	Fund Name	Amount	FY
4109	3620	Water Extra Capacity Supply	\$150,000	FY2015/16
	3701	Water Improvements	\$300,000	FY2015/16
Total for FY:			\$450,000	

Project Number: 4111
Project Name: Hyland Way Ct Waterline Replacement
Project Description: Replace 200 feet of waterline with 4-inch ductile iron pipe serving addresses 7150 through 7180.

Map:



**PROJECT NO.
4111**

Project Justification: The existing cast iron water line is old and in need of replacement.
Project Status: FY14-15: Complete design by City staff. FY15-16: Complete construction by City Forces.

Estimated Date of Completion: 06/30/2016
Estimated Project Cost: \$30,000
First Year Budgeted: FY14/15
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4111	3701	Water Improvements	\$30,000	FY2015/16
Total for FY:			\$30,000	

Project Number: 4112
Project Name: Hyland Park Ct Waterline Replacement
Project Description: Replace 350 feet of waterline with 4-inch ductile iron pipe serving addresses 13460 through 13490.

Map:

PROJECT NO. 4112



Project Justification: The existing cast iron water line is old and in need of replacement.
Project Status: FY14-15: Complete design by City staff. FY15-16: Complete construction by City Forces.

Estimated Date of Completion: 06/30/2016 First Year Budgeted: FY14/15
Estimated Project Cost: \$40,000 New Project:

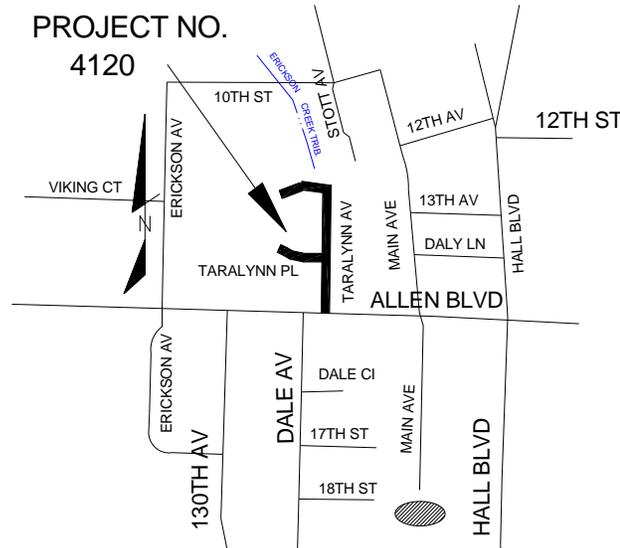
Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4112	3701	Water Improvements	\$40,000	FY2015/16
<u>Total for FY:</u>			\$40,000	

Project Data

Project Number: 4120
Project Name: Taralynn Ave (Allen Blvd - EOP) Waterline Replacement
Project Description: Replace 520 feet of 4-inch and 500 feet of 6-inch waterline with HDPE pipe from Allen Blvd to end of cul-de-sac.

Map:



Project Justification: The existing waterline has experienced several main breaks in the past few years. The old waterline is in need of replacement. Soil samples indicated the presence of iron eating bacteria so ductile iron pipe is not recommended as a replacement material.

Project Status: 12-30-14: Design by staff is 50% complete. FY 15-16: Complete design and construction by City Forces.

Estimated Date of Completion: 02/01/2016

First Year Budgeted: FY14/15

Estimated Project Cost: \$120,000

New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4120	3701	Water Improvements	\$122,000	FY2015/16
<u>Total for FY:</u>			\$122,000	

Project Number: 4126

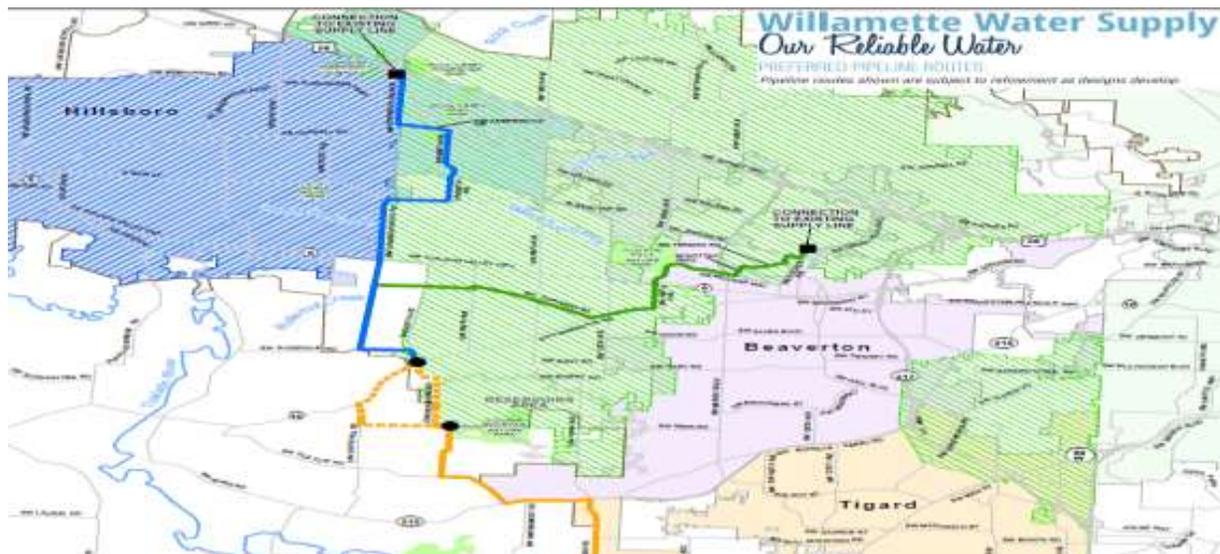
Project Name: Willamette River Supply System

Project Description: In September 2013, the Beaverton City Council authorized an expenditure of \$100,000 to fund participation in the Willamette Water Supply System preliminary design, being undertaken by the City of Hillsboro and Tualatin Valley Water District (TVWD). The new water supply source is expected to be operational by about 2026 with an approximate total cost of \$900 million to produce up to 80-million gallons per day (mgd) of treated drinking water. The preliminary design project currently includes more than 30 miles of up to 72-inch diameter transmission pipelines, pumping facilities, and water storage tanks (approximately 30 million gallons capacity) in the South Cooper Mountain vicinity. Beaverton's continued participation in the Willamette Water Supply Program required participation in the Willamette River Water Treatment Plant (WRWTP) Master Plan update and continued participation in the Governance Group process, authorized in October 2014 by the City Council. This commitment was memorialized in a memorandum of understanding (MOU) with TVWD. As part of the 2015 update of the WRWTP Master Plan, participants will seek to verify demands for the WRWTP and re-evaluate WRWTP construction and expansion alternatives to meet those demands. The 2015 Master Plan will develop alternatives and phasing for both the Upper and Lower water treatment plant sites.

TVWD, the City of Wilsonville (Wilsonville) and the City of Sherwood (Sherwood) own varied interests in the land, water rights, capacity and physical assets of the existing WRWTP, located in Wilsonville along the Willamette River just west of 1-5. The existing WRWTP (Lower Plant) can be expanded from its current capacity of 15 million gallons per day (mgd) to produce up to an ultimate capacity of 70 mgd. The existing WRWTP has been operating and providing drinking water to Wilsonville since 2002 and Sherwood since 2013.

Additional information on WWSP can be found at <http://www.ourreliablewater.org/our-future-water-supply/>.

Map:



Project Justification:

Because of the uncertain schedule for the funding and repair of Scoggins Dam, the City of Hillsboro and Tualatin Valley Water District made the decision to secure the long-term drinking water needs from the Willamette River, near Wilsonville. The raising of Scoggins Dam as part of the Tualatin Basin Water Supply Program as originally planned and found in the City's 2009 Water System Master Plan, is no longer being pursued by the partners. The Cities' of Beaverton, Tigard and Tualatin are participating in the

preliminary design process. The City in FY 2015-16 will work with local area water providers on planning for this critical supply resource which is scheduled to be on-line by 2026. Over the next year following the preliminary design phase, the Mayor and Council will be asked to consider joining the project as a financial partner to ensure a new future water supply source for Beaverton and adding needed redundancy to our water system.

Project Status:

FY15-16: City activities will include participation in the preliminary design process of the Willamette Water Supply Program (WWSP), which began in 2013 by the Tualatin Valley Water District and City of Hillsboro. As part of the decision to join the WWSP, an important criterion will be whether the City will secure a Willamette River water right permit that would allow indefinite use 22 million gallons per day of raw water from the Willamette River as the City has in the Tualatin River. The Mayor and City Council have not yet made a final decision on whether the City will become a full partner in the WWSP, but an important factor in the decision would be if the City has a valid water right permit that would allow indefinite use of raw water from the Willamette River as we have in the Tualatin River. A new permanent water supply is vital to the City's future. A Draft Final Order from the Oregon Water Resources Department was issued in January 2014. A final order is pending.

Estimated Date of Completion: 2026

First Year Budgeted: FY15/16

Estimated Project Cost:

New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4126	3643	Willamette Water Supply	\$100,000	FY2015/16
<u>Total for FY:</u>			\$100,000	

Project Number: 4127

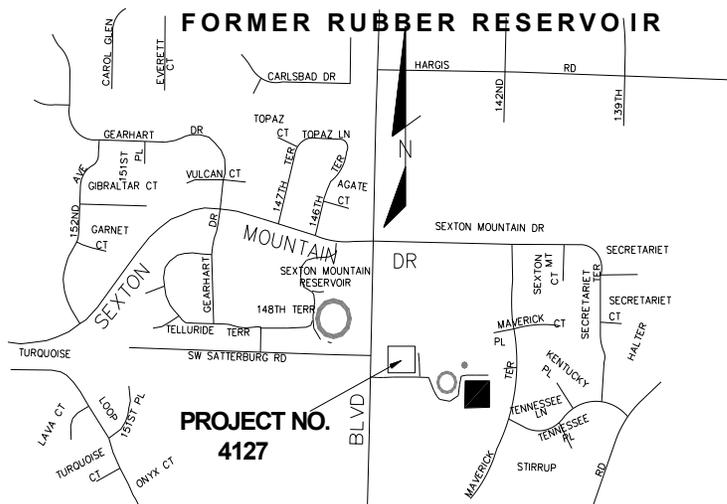
Project Name: Future Sexton Mountain Reservoir Site Preparation

Project Description: The project includes steps to clean up the site, relocate utilities, and begin the fill process to establish a level area for a future water storage reservoir. The site had a 4.5-million gallon rubber bladder reservoir with a 20-foot deep excavated basin with extensive piping and appurtenances.

The first step is to remove the reinforced concrete anchorage wall and asphalt pad (2" x 10') around the 1.5-acre surface area top perimeter of the reservoir (218' x 297' rectangle, 1,030 feet long). The volume of the wall once broken up is 96 cubic yards of reinforced-steel concrete that must be demolished and crushed on site to be used as fill or hauled off the site. There is about 1.5 surface acres of hypalon rubber that also needs to be removed. The former reservoir has an extensive underdrain system that was originally part of the reservoir foundation. The underdrain was originally designed to drain stormwater off-site to make sure that the sand foundation under the 1.5-acre surface area rubber bladder was stable and that no differential settling occurred underneath. The work also includes relocation of utilities, and demolition of the old reservoir remnants.

Once the site is prepared and utilities relocated, the fill required to fill the open basin, approximately 30,000 cubic yards of compacted fill requires 4,300 (10-cubic yard) trucks of loose fill. The compaction of the loose fill dumped from trucks shrinks by almost 1.4 times so it requires about 43,000 cubic yards of truck fill volume to make 30,000 cubic yards of compacted fill in place.

Map:



Project Justification: The project intent is to prepare a City-owned, abandoned Sexton Mountain 4.5 MG Reservoir site for the future (20 year horizon) storage of 5.0 Million Gallons (MG) of drinking water. The Sexton Mountain 4.5 MG bermed reservoir was constructed in 1973 to serve the 410-foot pressure zone. After approximately 20 years of operating the reservoir, City operations personnel noted that the floating cover showed signs of wear. After repeated reservoir water test samples indicated bacterial contamination, the City took the 4.5 MG Reservoir off line in 1994 and chose to abandon the reservoir in 2002.

Project Status:

Estimated Date of Completion: 06/30/2017

First Year Budgeted: FY15/16

Estimated Project Cost:

New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4127	3701	Water Improvements	\$100,000	FY2015/16
			<u>Total for FY:</u>	
			\$100,000	

Project Data

Water

Project Number: 4128

Project Name: TVWD Cooperative Water Projects

Project Description: Determine areas within City limits that are currently served by Tualatin Valley Water District (TVWD) that would be better served by the City of Beaverton.

Project Justification: The City is investigating key areas within the City limits and the Urban Renewal area where commercial, residential and industrial development can be promoted by serving the development with City provided drinking water.

Project Status: FY15-16: City engineering staff will complete a high interest area boundary map and preliminary design level piping plans and cost estimates.

Estimated Date of Completion: To be Determined

Estimated Project Cost:

First Year Budgeted: FY15/16

New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4128	3701	Water Improvements	\$100,000	FY2015/16
			<u>Total for FY:</u>	\$100,000

Project Data

Water

Project Number: 4129

Project Name: WSWD Cooperative Water Projects

Project Description: Determine areas within City limits that are currently served by West Slope Water district (WSWD) that would be better served by the City of Beaverton.

Project Justification: The City is investigating key areas within the City limits and the Urban Renewal area where commercial, residential and industrial development can be promoted by serving the development with City provided drinking water.

Project Status: FY15-16: City engineering staff will complete a high interest area boundary map and preliminary design level piping plans and cost estimates.

Estimated Date of Completion: To be Determined

Estimated Project Cost:

First Year Budgeted: FY15/16

New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4129	3701	Water Improvements	\$100,000	FY2015/16
			<u>Total for FY:</u>	\$100,000

Project Data

Water

Project Number: 4001
Project Name: Fire Hydrant Replacement Program
Project Description: Replace old and outdated fire hydrants to improve the supply of water for fire fighting. In 1998, the City of Beaverton initiated a formal program to assess and upgrade the 2,100 City-owned fire hydrants used to fight fires by Tualatin Valley Fire & Rescue (TVF&R).

First Year Budgeted: FY98/99

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4001	3705	Water Services	\$55,000	FY2015/16
Total for FY:			\$55,000	

Project Number: 4006
Project Name: Water System Telemetry Upgrade
Project Description: Annual program to replace and upgrade portions of the water telemetry system in order to better manage and increase efficiency for the overall water supply and distribution system.

First Year Budgeted: FY02/03

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4006	3620	Water Extra Capacity Supply	\$50,000	FY2015/16
Total for FY:			\$50,000	

Project Number: 4017
Project Name: Water System Hydraulic Modeling, Mapping & Master Planning
Project Description: Annual program for water system hydraulic modeling, fire flow analysis, and mapping to update the 2009 Master Plan.

First Year Budgeted: FY98/99

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4017	3700	Water Maint/Replacement	\$50,000	FY2015/16
Total for FY:			\$50,000	

Project Number: 4017A
Project Name: Water System Master Planning
Project Description: Update the 2009 Water Master Plan.
First Year Budgeted: FY15/16

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4017A	3701	Water Improvements	\$200,000	FY2015/16
Total for FY:			\$200,000	

Project Number: 4018
Project Name: Wellhead Protection Plan
Project Description: Preparation and implementation of wellhead protection plans for Aquifer Storage & Recovery (ASR) wells 2, 3, 4 and proposed ASR 5 and ASR 6.
First Year Budgeted: FY98/99

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4018	3620	Water Extra Capacity Supply	\$5,000	FY2015/16
Total for FY:			\$5,000	

Project Number: 4021E
Project Name: ASR Consultant Support
Project Description: Consultant services to monitor, test and report to the State Water Resources Department the performance and operation of the City's Aquifer Storage & Recovery wells and other associated monitoring wells.
First Year Budgeted: FY12/13

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4021E	3701	Water Improvements	\$45,000	FY2015/16
Total for FY:			\$45,000	

Project Number: 4024O
Project Name: FY15/16 Extra Capacity Supply System
Project Description: Projects that respond to unanticipated requirements for the City's water supply system to provide adequate water flows and pressures to meet the growing water demand. An example project would be the design and replacement of an old 2-inch pipe with a 6-inch or 8-inch DIP that was discovered during the progress of a CIP project in an older area of Beaverton.
First Year Budgeted: FY15/16

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4024O	3620	Water Extra Capacity Supply	\$100,000	FY2015/16
Total for FY:			\$100,000	

Project Number: 4031O
Project Name: FY15/16 Small Works Water Maintenance
Project Description: Projects that respond to unanticipated water main breaks or discovery of pipes that require replacement.
First Year Budgeted: FY15/16

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4031O	3700	Water Maint/Replacement	\$50,000	FY2015/16
	3701	Water Improvements	\$50,000	FY2015/16
Total for FY:			\$100,000	

Project Number: 4088
Project Name: Solar Retrofit & Energy Recovery Hydro Projects
Project Description: Solar Retrofit - A pre-feasibility evaluation of City reservoir and pump station facilities was completed to determine if any sites could be used to generate solar energy.

Energy Recovery Hydro Projects - The City is currently evaluating the feasibility of: 1) recovering energy currently lost through large pressure reducing valves (PRVs), which regulate pressures between water pressure zones and; 2) energy recovery from water injected in Aquifer Storage and Recovery wells.

First Year Budgeted: FY09/10

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4088	3701	Water Improvements	\$10,000	FY2015/16
Total for FY:			\$10,000	

Project Number: 4106
Project Name: Scholls Ferry Rd (Roy Rogers-Loon) Waterline & Sanitary Improvements
Project Description: Installation of 2,100 LF of 24-inch waterline in Scholls Ferry Rd from Loon Dr to Roy Rogers Rd/175th Ave. Installation of 1700 feet of 21-inch sanitary sewer pipe from Loon Dr to 175th Ave. The improvements will serve the 544 acre South Cooper Mountain area, recently annexed to the City. Street improvements are managed by the Washington County MSTIP program.

First Year Budgeted: FY11/12

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
4106	3620	Water Extra Capacity Supply	\$5,000	FY2015/16
Total for FY:			\$5,000	

Project Number: 6044
Project Name: Royal Woodlands East Utility Improvements
Project Description: Sanitary Sewer: Replace or rehabilitate 7,000 feet of 8-inch diameter sanitary sewer main line and associated laterals. Storm Drainage: Replace or construct drainage facilities. Water: Replace approximately 4,000 feet of 6-inch waterline. Street: Street restoration as required. The project area is bordered by Cypress St on the north, Pine St on the south, Cherry St on the west, and Jamieson Rd on the east.

First Year Budgeted: FY13/14

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
6044	3620	Water Extra Capacity Supply	\$5,000	FY2015/16
Total for FY:			\$5,000	

THIS PAGE LEFT INTENTIONALLY BLANK

Sanitary Sewer System Improvement Projects
FY 2015-2016

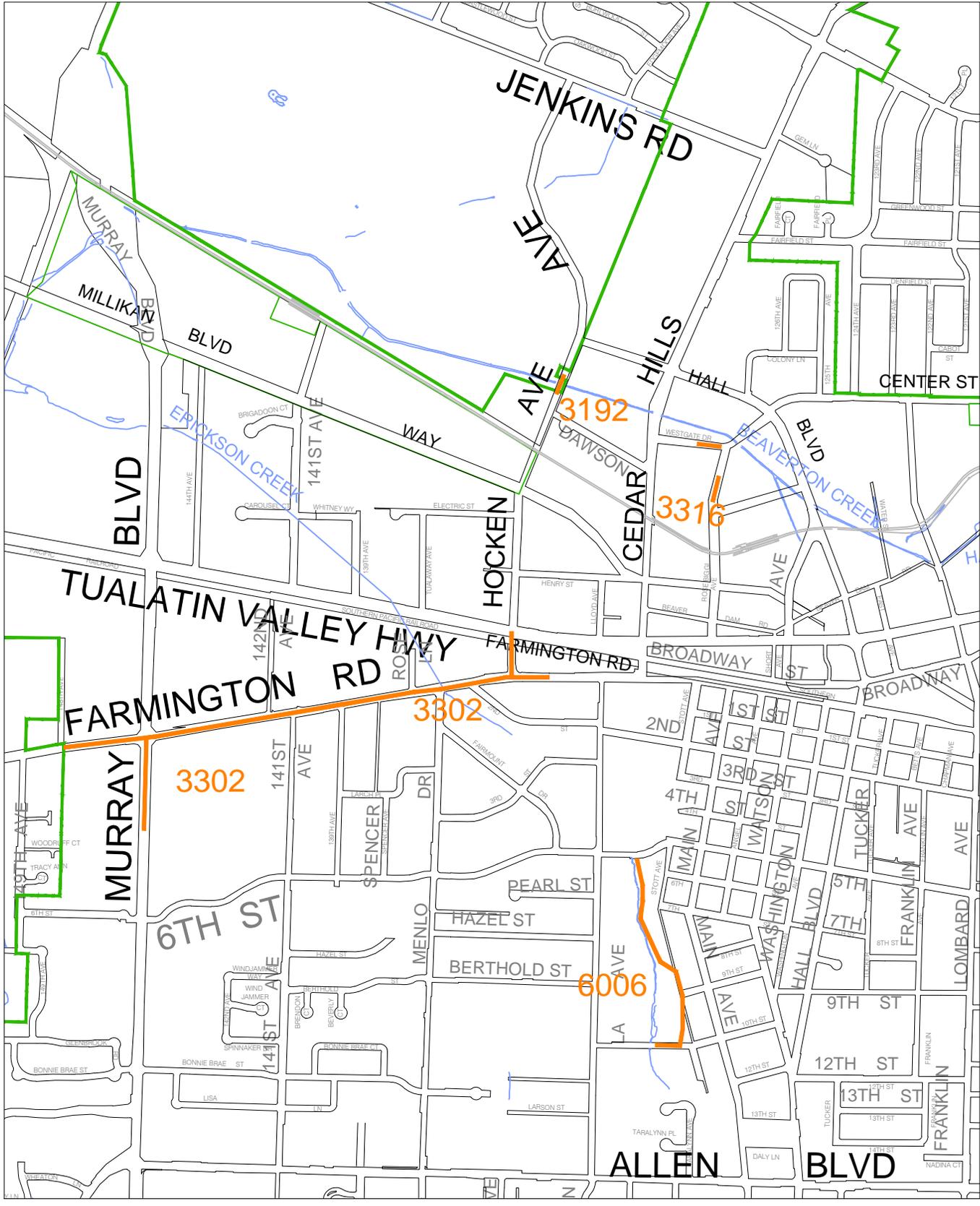
Sanitary Sewer Projects – Map Key

<u>Project No.</u>	<u>Project Name</u>	<u>Map Location</u>
3192*	Hocken Ave Bridge and Street Improvements at Beaverton Creek - see Transportation & Civic section for project details	C4, pg 96
3302*	Farmington Rd (Hocken-Murray), MSTIP 3D - see Transportation & Civic section for project details	F1 - F4, pg 96
3316*	Rose Biggi Ave Extension (Crescent St to Hall Blvd) - see Transportation & Civic section for project details	D5, pg 96
6000*	Sewer System Mapping/Master Plan	NA
6006*	Erickson Trunk Upsizing (6th St - 10th St), CWS R-110	G5, pg 96
6083*	South Cooper Mountain Infrastructure Study	NA
6089*	Barrows Rd Sanitary Sewer Trunk Upsizing	E4, pg 98
6090*	Spellman Dr Sanitary Sewer Improvements	G3, pg 98
6093*	Royal Woodlands South Utility Improvements	H6, pg 98

* Denotes multi-year project

Sanitary Sewer Projects FY 2015 - 2016

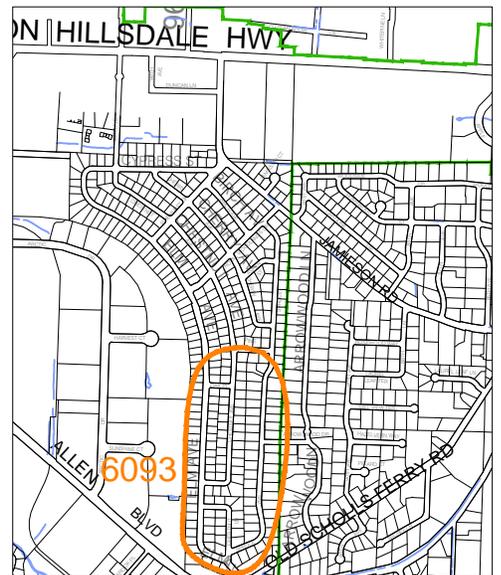
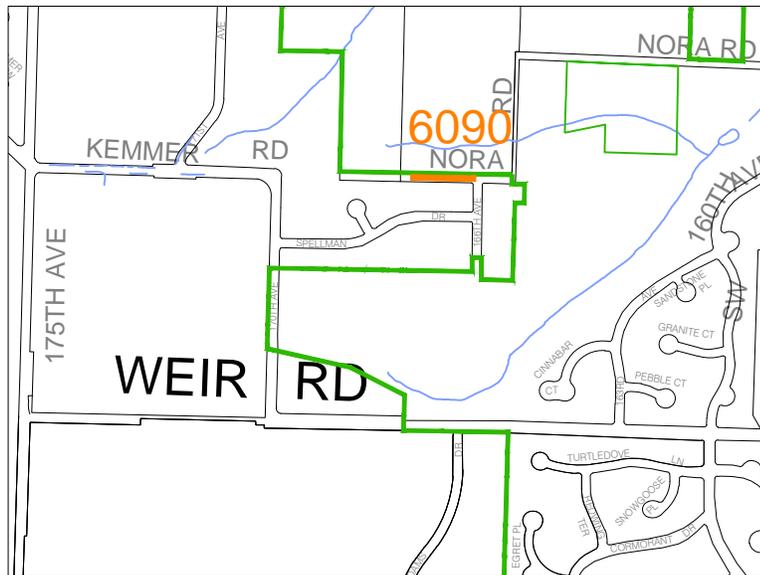
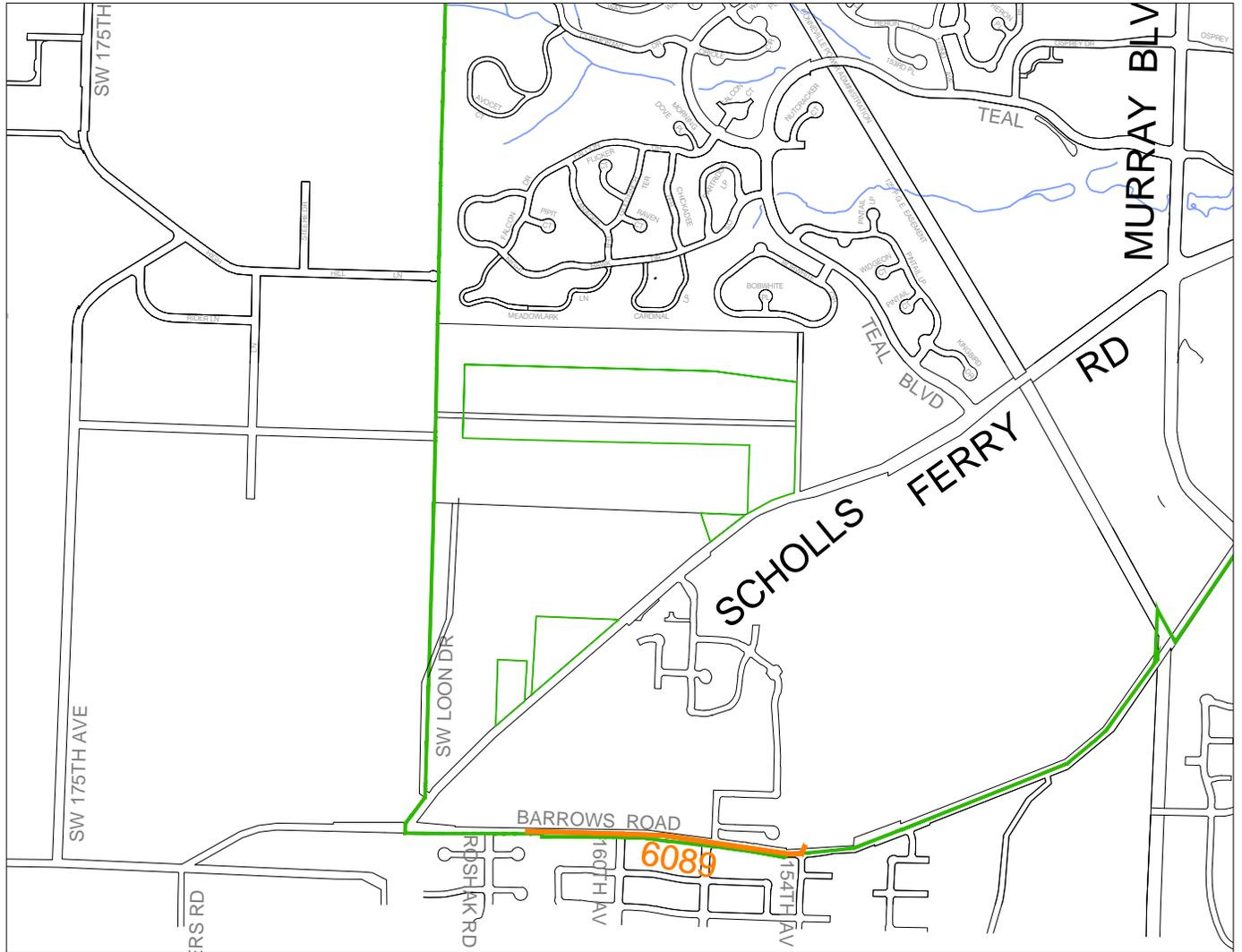
A
B
C
D
E
F
G
H
I



1 2 3 4 5 6 7₇

Sanitary Sewer Projects FY 2015 - 2016

A
B
C
D
E
F
G
H
I



1 2 3 4 5 6 7

Project Data

Sanitary

Project Number: 6000
Project Name: Sewer System Mapping/Master Plan Update
Project Description: Update Sanitary Sewer Master Plan.

Project Justification: The last Sanitary Sewer Master Plan prepared for the City was completed in 2004. Since that time significant development has occurred, the incorporated limits for the City have expanded, system improvements have been made, and zoning has changed. Although two sanitary sewer planning studies have been performed by Clean Water Services (CWS) since 1985 that include the Beaverton service area, these studies have focused primarily on the larger CWS maintained facilities (24-inch pipe and larger) and less on the portion of the system managed and operated by the City of Beaverton. Consequently, there is a need to develop an up-to-date Sanitary Sewer Master Plan for Beaverton that identifies system deficiencies, recommends solutions, and identifies capital improvement projects and their associated costs.

Project Status: FY15-16: Select consultant, determine scope and objectives of the Master Plan update, develop preliminary plan, and provide presentation to City Council.
 FY16-17: Complete Master Plan and identify and prioritize proposed capital improvements.

Estimated Date of Completion: 06/30/2017

Estimated Project Cost: \$250,000

First Year Budgeted: FY15/16

New Project:

Funding Data:

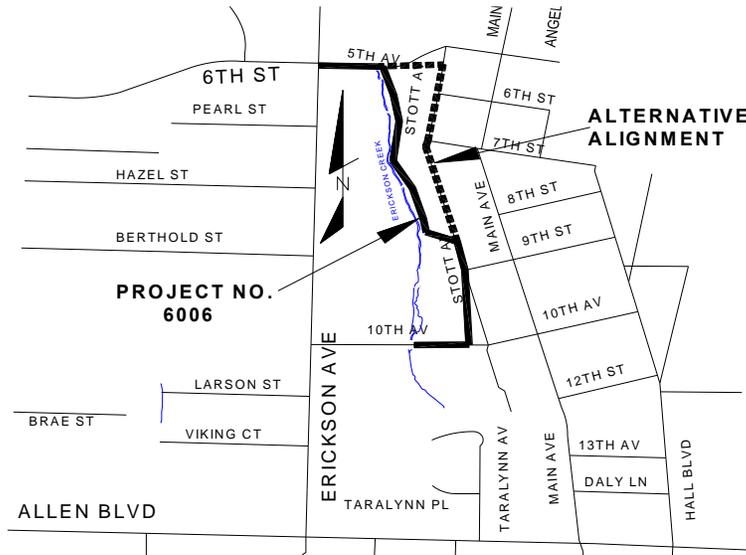
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
6000	3811	Sewer SDC	\$250,000	FY2015/16
<u>Total for FY:</u>			\$250,000	

Project Number: 6006

Project Name: Erickson Trunk Upsizing (6th St - 10th St), CWS R110

Project Description: The project consists of replacing 2,015 feet of 15-inch pipe with 18-inch pipe. Alternative alignments will be investigated during preliminary design. Although alternate alignments will require significant reconstruction of service lines, it would remove the trunk from the creek area and improve maintenance access.

Map:



Project Justification: The Erickson trunk between SW 6th St and SW 10th St is a 15-inch pipe constructed about 50 years ago along Erickson Creek. A portion of the pipe through the Creekside Village development was realigned in 1987. The 15-inch pipe is undersized for both existing and buildout conditions. Replacing this pipe in its current location would be difficult as it is in a heavily landscaped area adjacent to the creek with limited access and multifamily structures nearby. Pipe bursting is not feasible due to the extremely flat grade.

Project Status: FY15-16: Investigate alternative alignments and determine the location of sanitary sewer laterals. Coordinate with the Creekside Village complex.

Estimated Date of Completion: 09/30/2017

First Year Budgeted: FY15/16

Estimated Project Cost: \$1,038,000

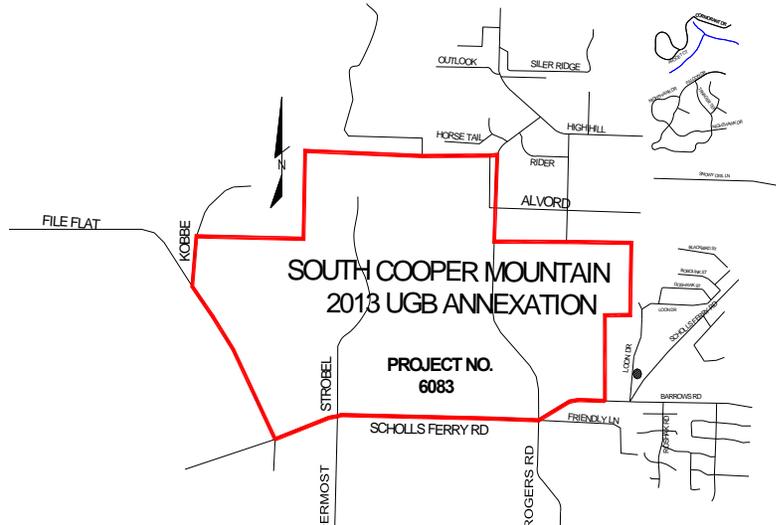
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
6006	3811	Sewer SDC	\$200,000	FY2015/16
	CWS	IGA w/ Clean Water Services	(\$200,000)	FY2015/16
Total for FY:			\$0	

Project Number: 6083
Project Name: South Cooper Mountain Infrastructure Engineering
Project Description: Conduct a study of the public infrastructure required to support the development of approximately 1,783 acres of land recently added to the Urban Growth Boundary.

Map:



Project Justification: The existing public infrastructure for water, sanitary sewer, storm drainage and streets will not support future development. Planning is needed to determine demand, pipe sizes and alignments, the size and location of storage facilities and pump stations (if needed), and cost estimates in order to insure that facilities can be available to support development.

Project Status: FY 11-12: Begin concept planning by City staff. FY 12-13: Complete concept planning & preliminary design by City staff. FY13-14: Continue preliminary design and begin draft planning level Master Plan. FY14-15: Continue preliminary design and complete draft planning level Master Plan. FY15-16: Begin site specific engineering investigations and plans as needed.

Estimated Date of Completion: 06/30/2016

First Year Budgeted: FY12/13

Estimated Project Cost: \$250,000

New Project:

Funding Data:

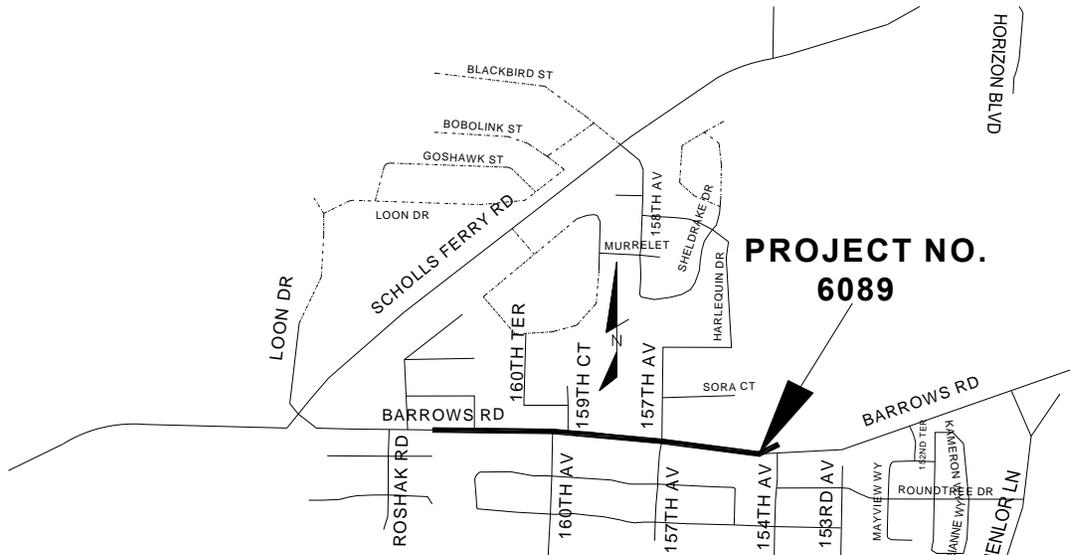
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
6083	3620	Water Extra Capacity Supply	\$50,000	FY2015/16
	3811	Sewer SDC	\$30,000	FY2015/16
<u>Total for FY:</u>			\$80,000	

Project Number: 6089

Project Name: Barrows Rd Sanitary Sewer Trunk Upsizing

Project Description: Replace 1800 feet of 8-inch pipe with 24-inch sanitary sewer in Barrows Rd to connect the 24-inch pipe installed by CIP 6088 to an existing pipe in the vicinity of 154th Ave. Replace 30 feet of undersized storm drain pipe that causes sidewalk flooding.

Map:



Project Justification: This project will be built after CIP 6088. It increases the existing 8-inch main to a larger diameter to receive increased sewer flows. At this time, a 24-inch pipe will be installed upstream of this segment. The 8-inch pipe will not handle the anticipated flows from the 24-inch segment upstream and upsizing is needed. The storm drainage improvement will reduce localized flooding.

Project Status: FY12/13: Predesign. FY13/14: Begin design. FY14/15: Continue design. FY15/16: Begin construction.

Estimated Date of Completion: 09/30/2016

First Year Budgeted: FY13/14

Estimated Project Cost: \$1,300,000

New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
6089	3811	Sewer SDC	\$250,000	FY2015/16
	3950	Storm Maint/Replacement	\$110,000	FY2015/16
Total for FY:			\$360,000	

Project Data

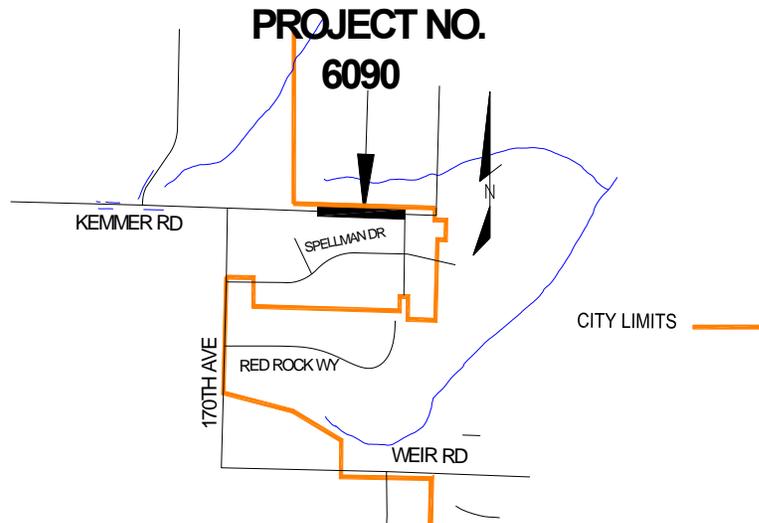
Sanitary

Project Number: 6090

Project Name: Spellman Dr Sanitary Sewer Improvements

Project Description: The project will include the design and construction of an 8-inch sewer mainline from the manhole at the intersection of SW 166th and SW Emerald View St west 528 feet along an undeveloped City of Beaverton right-of-way. The project includes the installation of two manholes and service laterals for properties that front the right-of-way.

Map:



Project Justification: The properties in this neighborhood have septic tanks with drain fields for sewage disposal. Some of the systems are failing and require replacement or connection to a sewer collection system. DEQ will not approve repair or replacement of failed septic systems if a collection system is available. In exchange for annexation, the affected properties will be allowed to connect to the new sanitary sewer system.

Project Status: FY12-13: A preliminary conceptual design and a cost estimate have been generated. Property owner participation and CWS (Clean Water Service) agreements are being pursued. FY13-14 and FY14/15: Waiting for property owner participation in a proposed Local Improvement District. FY15-16: Continue to monitor status of private septic systems.

Estimated Date of Completion: 06/30/2016

First Year Budgeted: FY13/14

Estimated Project Cost: \$338,000

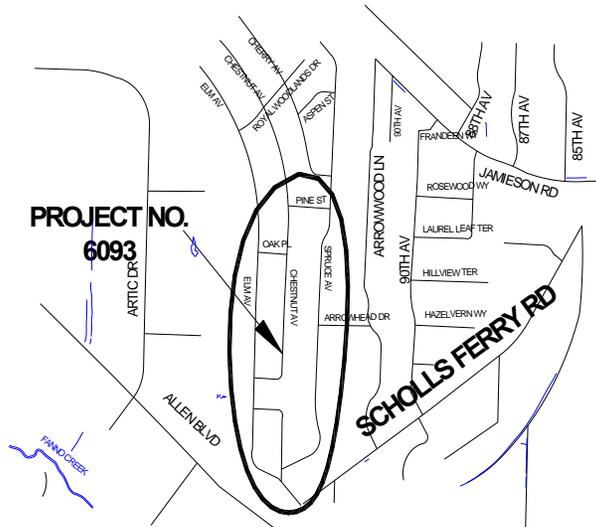
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
6090	3850	Sewer Maint/Replacement	\$10,000	FY2015/16
<u>Total for FY:</u>			\$10,000	

Project Number: 6093
Project Name: Royal Woodlands South Utility Improvements
Project Description: Replace or rehabilitate old sanitary sewer main lines and laterals in the area south of Pine St that includes Elm Ave, Chestnut Ave, and Spruce Ave. Replace or rehabilitate storm drainage pipes and structures as needed. Replace cast iron water pipes as needed. Overlay and/or reconstruct streets after underground work is complete.

Map:



Project Justification: Sanitary: The sanitary pipes in the project area are 60 to 80 years old and have a very high level of infiltration/inflow and are in a poor condition. The pipes also have severe root intrusion problems in areas and require a high level of maintenance. Water: The existing cast iron water lines have experienced recent and numerous main breaks. Storm drainage: The existing pipes and structures require localized repairs.

Project Status: FY13/14: Complete flow monitoring of sanitary sewer system to determine extent of inflow & intrusion. Investigate storm drainage and sanitary sewer pipes and structures. FY14/15: Continue investigation of existing public utility systems. FY15-16: Begin design.

Estimated Date of Completion: 6/30/2016 (Design only) **First Year Budgeted:** FY14/15
Estimated Project Cost: \$1,000,000 **New Project:**

Funding Data:

Project No.	Fund No.	Fund Name	Amount	FY
6093	3701	Water Improvements	\$70,000	FY2015/16
	3850	Sewer Maint/Replacement	\$125,000	FY2015/16
	3950	Storm Maint/Replacement	\$10,000	FY2015/16
Total for FY:			\$205,000	

Storm Drainage Improvement Projects
FY 2015-2016

Storm Drainage Projects – Map Key

<u>Project No.</u>	<u>Project Name</u>	<u>Map Location</u>
3192*	Hocken Ave Bridge and Street Improvements at Beaverton Creek – see Transportation & Civic section for project details	A3, pg 107
3320*	Hall Creek and Pathway (114th-117th) Enhancement - see Transportation & Civic section for project details	A5, pg 107
3521*	Creekside Pilot Project #1 (Francis Triangle) - see Transportation & Civic section for project details	A3, pg 107
5088*	Walker Rd (Murray Blvd - 173rd Ave), MSTIP3D - see Transportation & Civic section for project details	B1 - E6, pg 108
5089*	Murray/Walker Intersection & Replacement Bridges, MSTIP 3D - see Transportation & Civic section for project details	F6, pg 108
5090*	Jenkins Rd (158th Ave - Murray Blvd) & 158th Ave (Baseline Rd - Merlo LRT), MSTIP3D- see Transportation & Civic section for project details	F3, pg 108
6093*	Royal Woodlands South Utility Improvements - see Sanitary section for project details	D7, pg 107
8098A*	Storm Drainage Improvements at Dover Ln Near Oleson Rd (Dover South)	H1, pg 107
8098B*	Storm Drainage Improvements at Dover Ln Near Oleson Rd (Dover North)	G1, pg 107
8104A*	Pretreatment Retrofit: 6775 Murray Blvd	E1, pg 107
8104B*	Pretreatment Retrofit: 10200 Murray Blvd	I3, pg 107
8112*	102nd Ave South of Heather Storm Drain Improvements	F6, pg 107
8114*	Creek Debris Screen Replacement	A4, pg 107; G7, pg 107
8119*	141 st Ave (Millikan Way to Vernier Driveway) Storm Conveyance Pipe	A2, pg 107
8125*	South Cooper Mountain Storm Conveyance	NA
8128*	Jamieson Area Storm Drainage Improvement	C7, pg 107
8130*	3805-3825 SW 144 th Ave Duplex Removal and Wetland Restoration	A2, pg 107

* Denotes multi-year project

Storm Drainage Projects FY 2015-2016

A

B

C

D

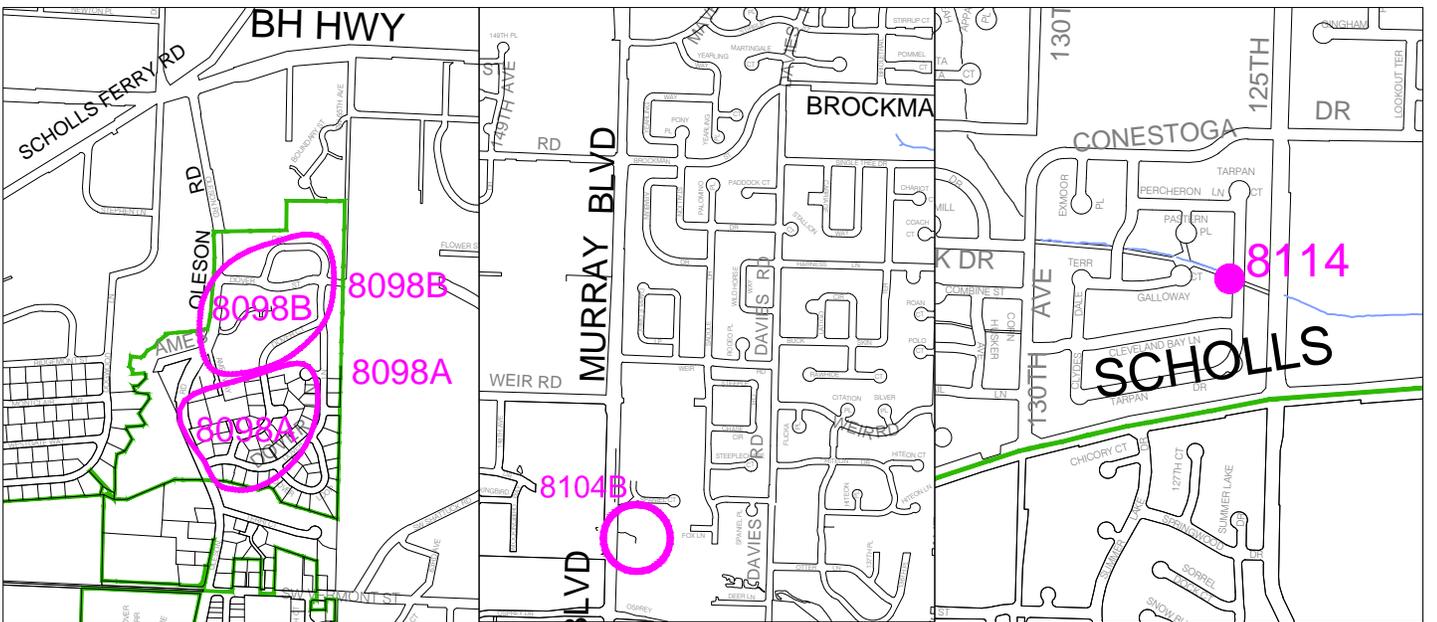
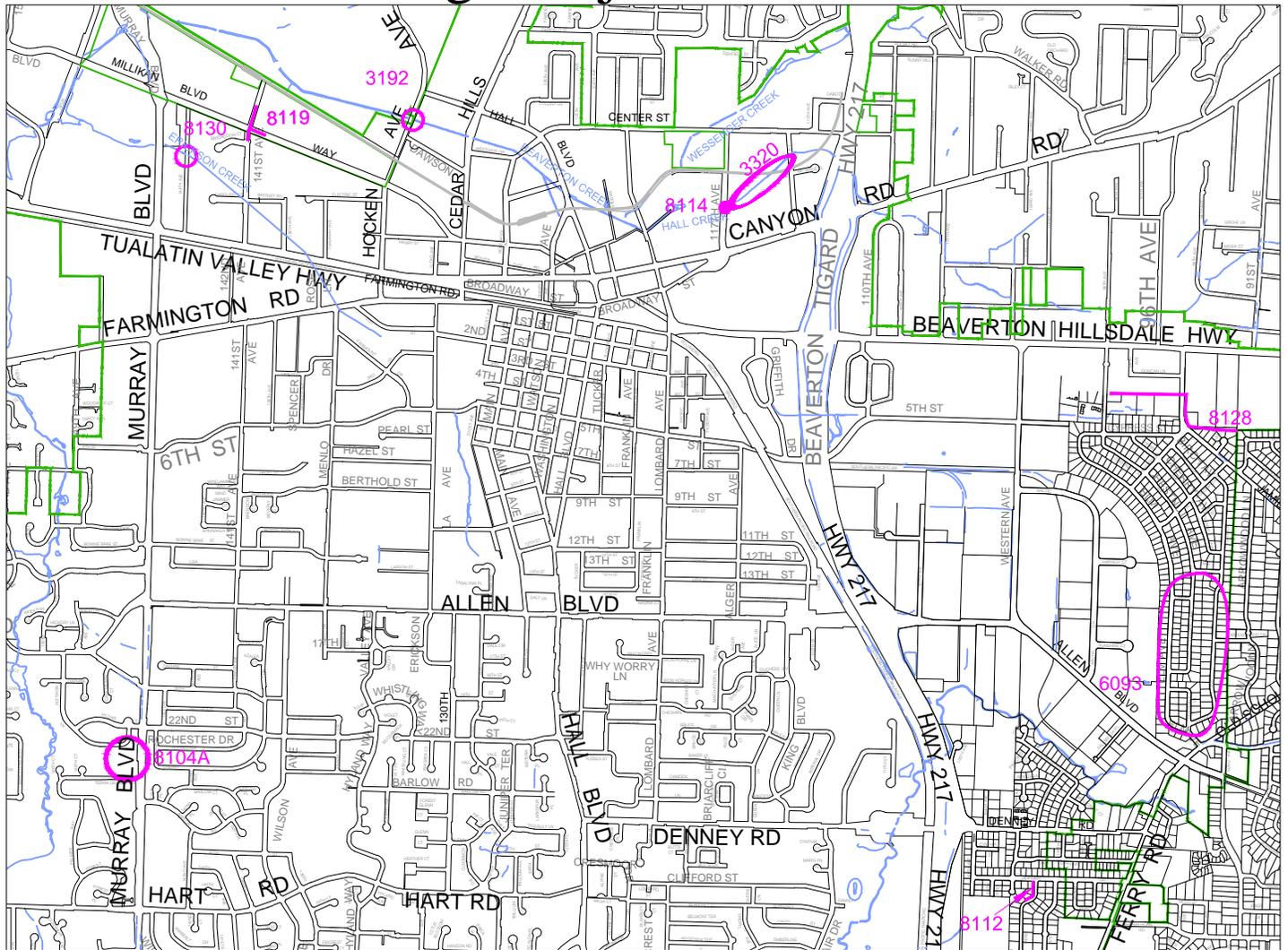
E

F

G

H

I



1

2

3

4

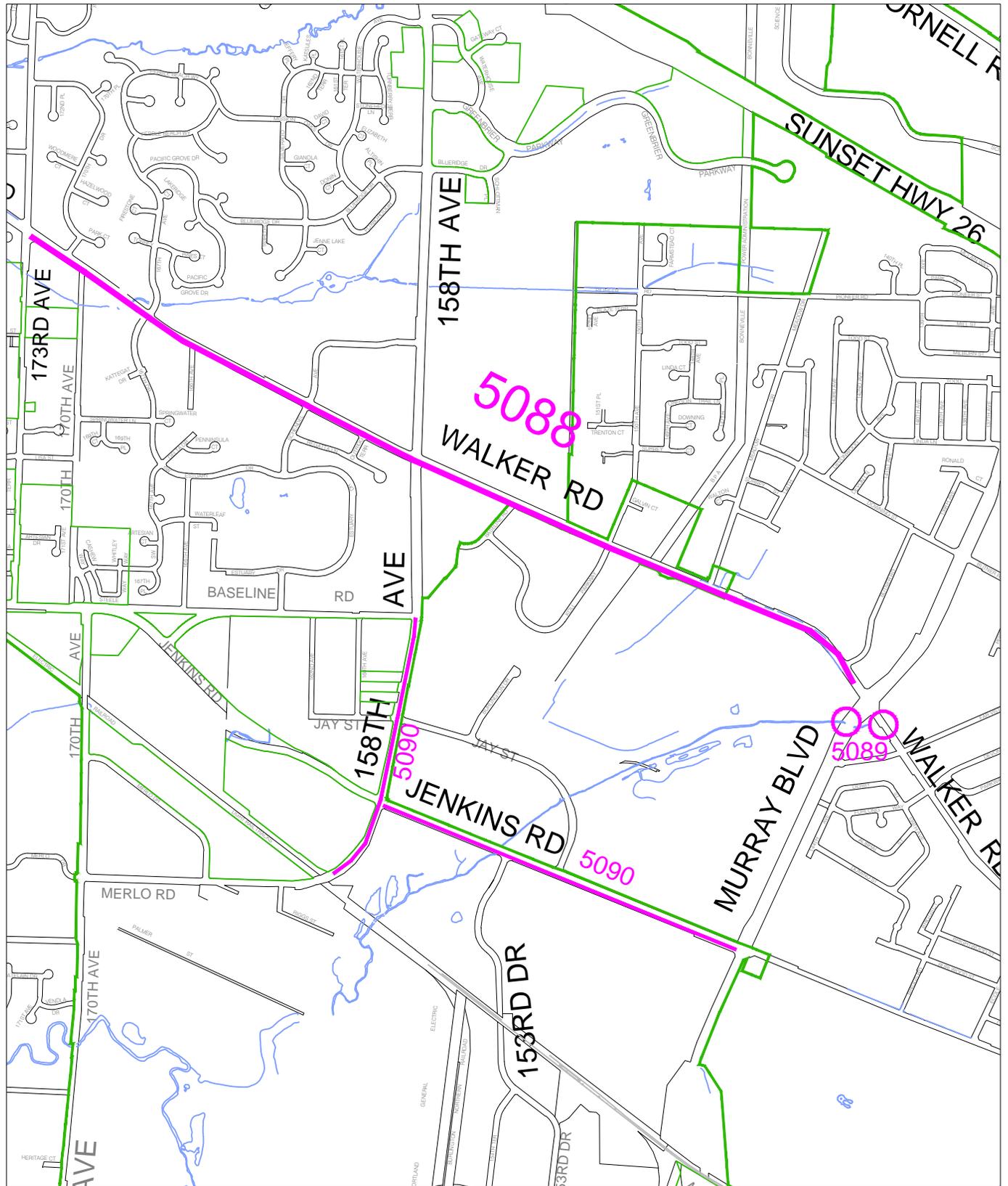
5

6

7

Storm Drainage Projects FY 2015-2016

A
B
C
D
E
F
G
H
I



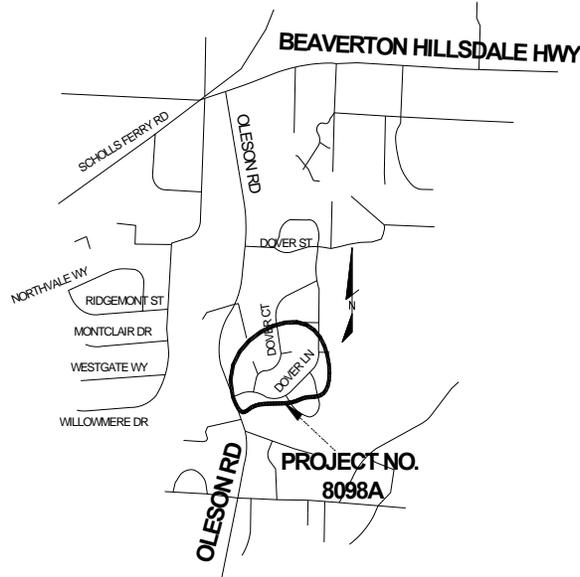
1 2 3 4 5 6 7

Project Data

Storm

Project Number: 8098A
Project Name: Storm Drain Realignment at Dover Ln Near Oleson Rd (Dover South)
Project Description: Rehabilitate, replace, and/or realign storm drain pipes that are both old and difficult to access for maintenance.

Map:



Project Justification: Storm drainage: Existing pipes are in need of repair and are difficult to access because they are along side yards (some pipes are even under existing structures). The idea to take advantage of new water quality structures installed by the Oleson Rd (MSTIP3) project has proven not practical. The scope of the Dover Ln storm drainage improvements has expanded because nearly all of the storm system on Dover Ln and adjacent streets is in need of rehabilitation or replacement. There are now two projects: Dover South (CIP 8098A) and Dover North (CIP 8098B).

Sanitary: Many "pig-tailed" or shared sanitary sewer connections were found in this area which does not meet the City requirement of one separate and complete sanitary sewer service for each tax lot. In addition, staff is investigating the need for structural repairs to sanitary sewer pipes to prevent sink holes in the public right-of-way. Also, because the area drains to a City of Portland treatment plant, there is no coordination with CWS for funding in order to reduce inflow and infiltration. The replacement of sanitary sewer laterals is contingent on the formation of a Local Improvement District. Currently, there is no funding proposed for sanitary sewer lateral replacement.

Project Status: FY11/12: Continue study of the existing storm drain pipes and system and develop alternatives. FY12/13: Begin design. FY13/14: Continue project design. FY14/15: Continue project design. FY15/16: Begin construction.

Estimated Date of Completion: 09/30/2016 **First Year Budgeted:** FY10/11
Estimated Project Cost: \$570,000 **New Project:**

Funding Data:

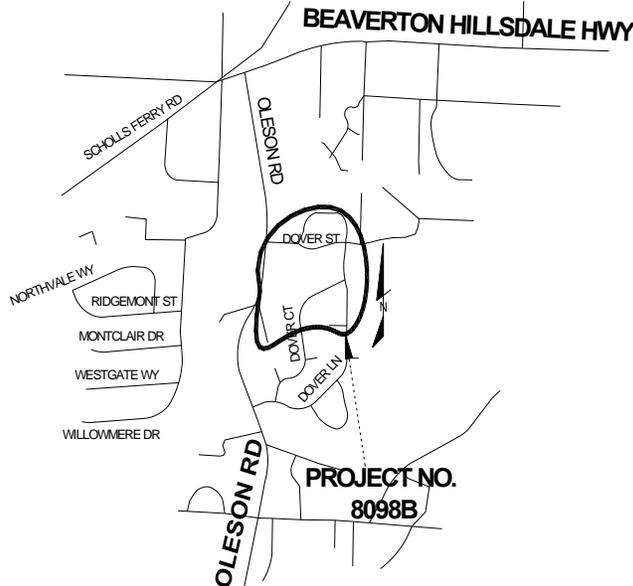
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8098A	3950	Storm Maint/Replacement	\$220,000	FY2015/16
Total for FY:			\$220,000	

Project Data

Storm

Project Number: 8098B
Project Name: Storm Drain Realignment at Dover Ln Near Oleson Rd (Dover North)
Project Description: Rehabilitate, replace, and/or realign sanitary sewer and storm drain pipes that are both old and difficult to access for maintenance.

Map:



Project Justification: Storm drainage: Existing pipes are in need of repair and are difficult to access because they are along side yards (some pipes are even under existing structures). The idea to take advantage of new water quality structures installed by the Oleson Rd (MSTIP3) project has proven not practical. The scope of the Dover Ln storm drainage improvements has expanded because nearly all of the storm system on Dover Ln and adjacent streets is in need of rehabilitation or replacement. There are now two projects: Dover South (CIP 8098A) and Dover North (CIP 8098B).

Sanitary: Many "pig-tailed" or shared sanitary sewer connections were found in this area which does not meet the City requirement of one separate and complete sanitary sewer service for each tax lot. In addition, staff is investigating the need for structural repairs to sanitary sewer pipes to prevent sink holes in the public right-of-way. Also, because the area drains to a City of Portland treatment plant, there is no coordination with CWS for funding in order to reduce inflow and infiltration. The replacement of sanitary sewer laterals is contingent on the formation of a Local Improvement District. Currently, there is no funding proposed for sanitary sewer lateral replacement.

Project Status: FY11/12: Continue study of the existing storm drain pipes and system and develop alternatives. FY12/13: Begin design. FY13/14: Continue project design. FY14/15: Continue project design. FY15/16: Begin construction.

Estimated Date of Completion: 09/30/2015 **First Year Budgeted:** FY10/11
Estimated Project Cost: \$570,000 **New Project:**

Funding Data:

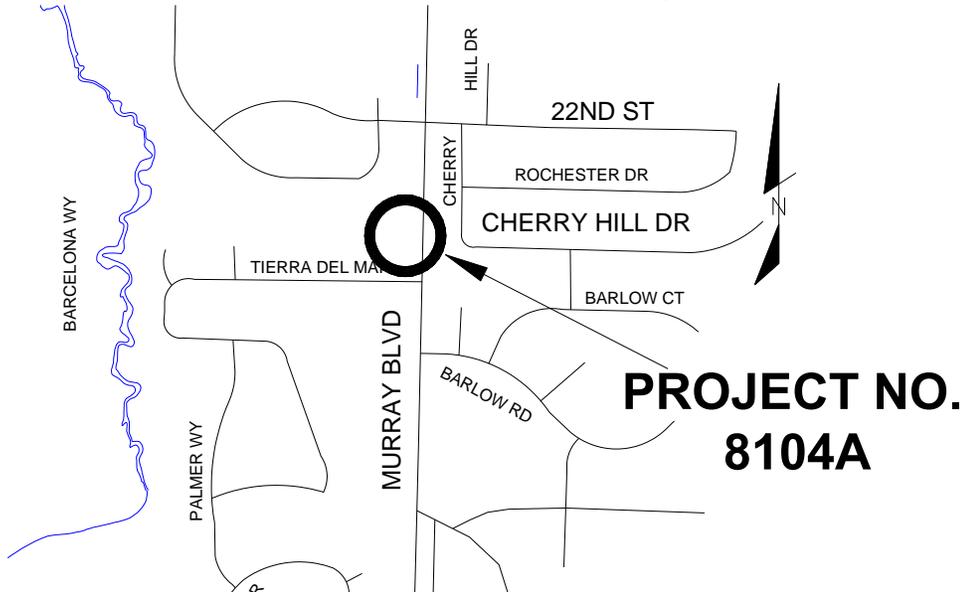
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8098B	3950	Storm Maint/Replacement	\$220,000	FY2015/16
<u>Total for FY:</u>			\$220,000	

Project Data

Storm

Project Number: 8104A
Project Name: Pretreatment Retrofit: 6775 Murray Blvd Stormfilter
Project Description: Design and retrofit-installation of a gross solids removal (trash and dirt) pretreatment device prior to the existing storm water filters.

Map:



Project Justification: The existing stormwater filter at this location is undersized with respect to the actual tributary drainage area and it has insufficient pretreatment. In addition, the amount of debris that accompanies the surface water runoff that comes to the filter is filling the filter bays too quickly with gravel, dirt, and other materials, thus requiring frequent maintenance that is in excess of the amount budgeted in the performance standards. This project will address only the insufficient pretreatment element which will reduce the maintenance frequency and improve overall performance.

Project Status: FY12/13: Complete predesign. FY13/14: Begin design. FY14/15: Complete design and begin construction by City Forces. FY15/16: Complete construction.

Estimated Date of Completion: 06/30/2016

First Year Budgeted: FY12/13

Estimated Project Cost: \$100,000

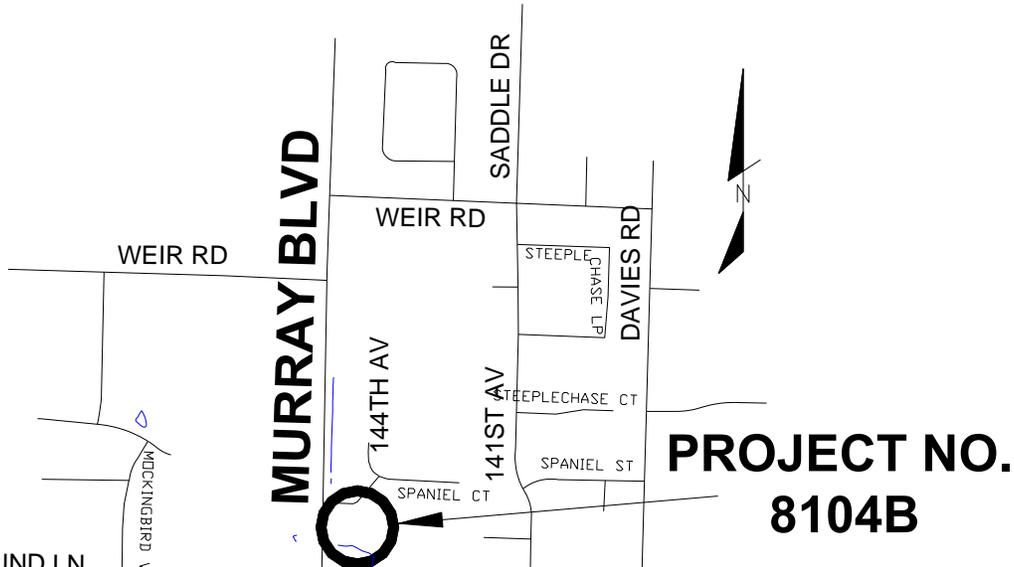
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8104A	3917	Storm SDC Water Quality	\$35,000	FY2015/16
<u>Total for FY:</u>			\$35,000	

Project Number: 8104B
Project Name: Stormwater Pond Remodel at 10200 Murray Blvd
Project Description: Replacement of the existing stormwater filters with a pond that will more efficiently pretreat stormwater by collecting gross solids such as trash and dirt.

Map:



Project Justification:

The existing stormwater filter at this location is undersized with respect to the actual tributary drainage area and it has insufficient pretreatment. In addition, the amount of debris that accompanies the surface water runoff that comes to the filter is filling the filter bays too quickly with gravel, dirt, and other materials, thus requiring frequent maintenance that is in excess of the amount budgeted in the performance standards.

In FY 13/14 City staff determined that the existing stormwater filter could be replaced with a vegetated facility capable of treating the entire tributary area as well as providing a multi-use path connection between Fox Ln and Murray Blvd.

Project Status: FY13/14: Complete project investigation and begin design. FY14/15: Complete design. FY15/16: Begin construction.

Estimated Date of Completion: 09/30/2016
Estimated Project Cost: \$190,000

First Year Budgeted: FY14/15

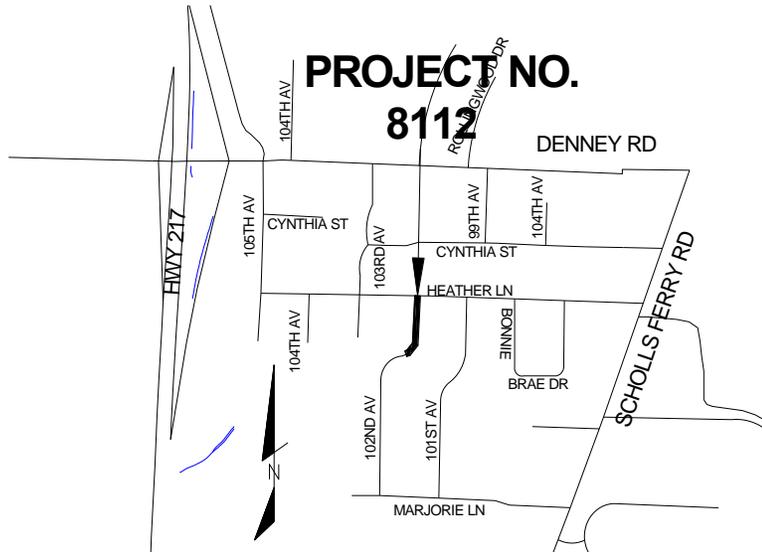
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8104B	3917	Storm SDC Water Quality	\$130,000	FY2015/16
Total for FY:			\$130,000	

Project Number: 8112
Project Name: 102nd Ave South of Heather Storm Drain Improvements
Project Description: The purpose of this project is to replace approximately 300 feet of deteriorated storm pipe and associated structures. The completion of this project is coordinated with the 2014/15 Street Rehabilitation Program.

Map:



Project Justification: The existing pipe run is full of roots, sags, and is prone to clogging. The size, location, and alignment of the pipes are not easy to maintain, and do not meet current City standards. Localized pavement failure has occurred, and repairing this prior to an overlay will avoid utility work in newly paved streets.

Project Status: FY 11/12: Completed predesign and survey by City staff. FY 12/13: Begin design by City staff. FY13/14: Complete design. FY14/15: Complete construction by City Forces. FY15/16: Complete street reconstruction by City Forces.

Estimated Date of Completion: 06/30/2016

First Year Budgeted: FY12/13

Estimated Project Cost: \$90,000

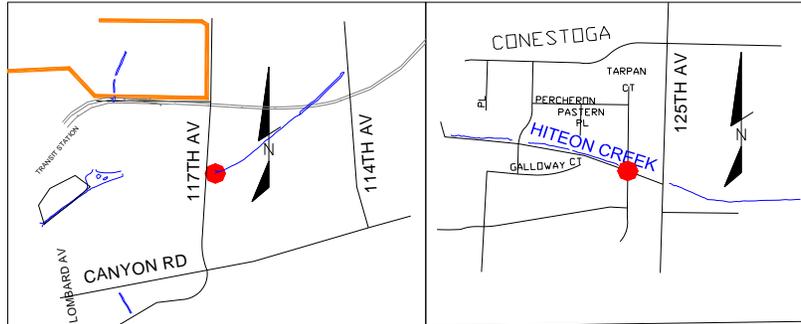
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8112	3950	Storm Maint/Replacement	\$18,000	FY2015/16
<u>Total for FY:</u>			\$18,000	

Project Number: 8114
Project Name: Creek Debris Screen Replacement
Project Description: Program to replace debris screens at the entrance of certain long culverts or piped streams that are badly damaged and/or are performing poorly.

Map:



**PROJECT NO.
8114**

Project Justification: Damaged and/or poorly performing debris screens at the entrance of certain long culverts or piped stream sections can result in flooding caused by debris.
Project Status: Debris screen locations include Hall Creek at SW 117th Ave, Waterhouse Creek at NW Greenbrier Parkway, and Hiteon Creek at SW Tarpan Dr.

Estimated Date of Completion: 06/30/2016 First Year Budgeted: FY12/13
Estimated Project Cost: \$45,000 New Project:

Funding Data:

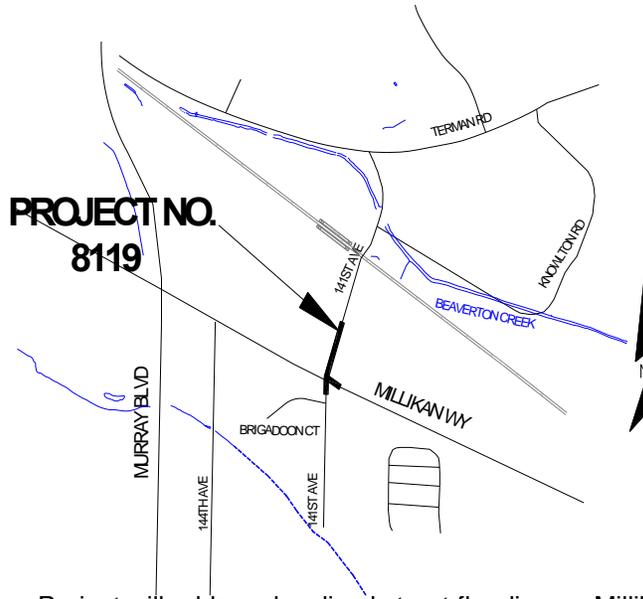
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8114	3950	Storm Maint/Replacement	\$35,000	FY2015/16
Total for FY:			\$35,000	

Project Data

Storm

Project Number: 8119
Project Name: 141st Ave (Millikan Way to Vernier Driveway) Storm Conveyance Pipe
Project Description: Install additional pipes to convey stormwater away from flooding areas.

Map:



Project Justification: Project will address localized street flooding on Millikan Wy that occurs several times each winter.

Project Status: FY14/15: Complete design. FY15/16: Begin construction. This storm pipe project is contingent on finding a "gravity" path through the large number of existing utilities, both public and private, in the project area.

Estimated Date of Completion: 09/30/2016

First Year Budgeted: FY14/15

Estimated Project Cost: \$185,000

New Project:

Funding Data:

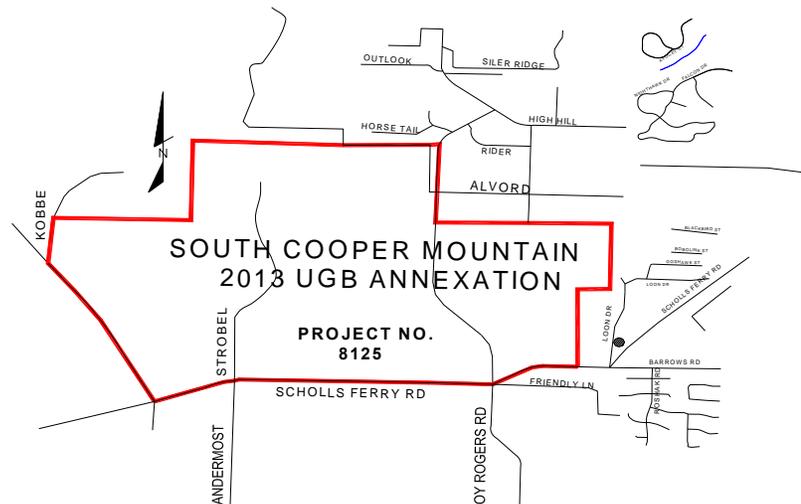
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8119	3915	Storm SDC Conveyance	\$90,000	FY2015/16
<u>Total for FY:</u>			\$90,000	

Project Number: 8125

Project Name: South Cooper Mountain Storm Conveyance

Project Description: The project is to address the storm water system conveyance needs for the South Cooper Mountain Development area. The first phase of this work is to address known conveyance needs, particularly three culverts under Scholls Ferry Rd. The two larger of the culverts, located just east of SW Strobel Rd, will likely need to be rebuilt to be fish passable. City staff is currently working with CWS sanitary sewer engineering staff to ensure that the CWS Sanitary Trunk Sewer and the proposed fish passable culverts do not conflict. Another design challenge is to anticipate the impact of the 6-foot diameter future Willamette Water Supply trunk line that will be built in this location along Scholls Ferry Rd in approximately FY 2020-21.

Map:



Project Justification: Address storm water conveyance needs associated with development that has paid Systems Development Charges.

Project Status: FY14-15: Complete assessment of major storm conveyance issues. FY15-16: Begin preliminary engineering on one or more conveyance needs. Also, see CIP 6083.

Estimated Date of Completion: 09/30/2016

First Year Budgeted: FY15/16

Estimated Project Cost: \$200,000

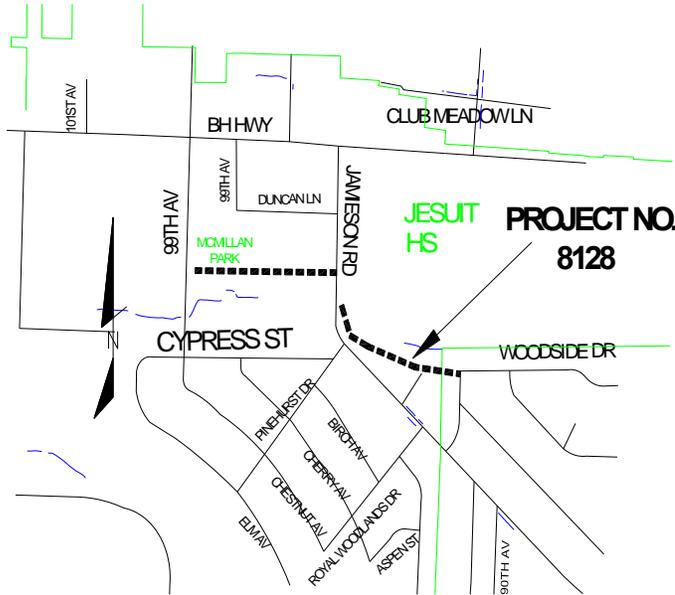
New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8125	3915	Storm SDC Conveyance	\$200,000	FY2015/16
<u>Total for FY:</u>			\$200,000	

Project Number: 8128
Project Name: Jamieson Area Storm Drainage Improvements
Project Description: The purpose of this project is to restore and enhance flood flow conveyance to a mapped floodway and floodplain.

Map:



Project Justification: Reduce flooding frequency.

Project Status: Phase 1 is floodway maintenance work on tax lot 1S114AC01600 as well as an easement area to be established with the Valley Plaza Property owner. Construction is anticipated for summer of 2015.

Phase 2 is floodway maintenance work on tax lot 1S114AC00201 subject to obtaining an easement. Schedule is not yet determined.

Phase 3 is work on the driveway area of tax lot 1S114AC02300 and reshaping the paving between the driveway and the McMillan Park. The proposed work should be mostly funded by the property owner. Schedule is not yet determined.

Phase 4 is work in McMillan Park which staff will propose to be mostly funded by THPRD. Schedule is not yet determined.

Estimated Date of Completion: 09/30/2016 (Phase 1)

First Year Budgeted: FY15/16

Estimated Project Cost: \$150,000

New Project:

Funding Data:

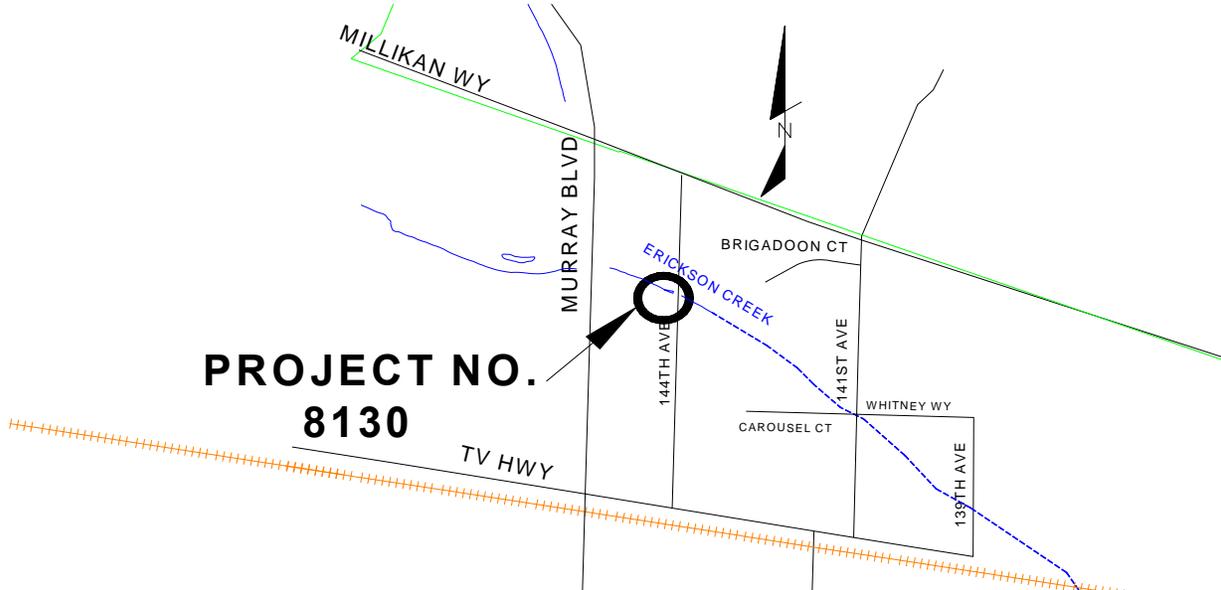
<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8128	3915	Storm SDC Conveyance	\$115,000	FY2015/16
<u>Total for FY:</u>			\$115,000	

Project Data

Storm

Project Number: 8130
Project Name: 3805-3825 SW 144th Ave Duplex Removal and Wetland Restoration
Project Description: Purchase property and associated building. Demolish building and restore green space with native plants.

Map:



**PROJECT NO.
8130**

Project Justification: The SW 144th roadway is currently configured as a dead-end street; therefore, the property owners on the north end of SW 144th Ave between Erickson Creek and Millikan Wy lose the ability to get to or from their property by way of passenger motor vehicle during the frequent flooding events. For several years staff has discussed how to mitigate the frequent and predictable flooding of 144th Ave and the impact on the subject property. Staff concluded that due to how the subject structure is built and how it accesses 144th Ave, there is no solution that can be implemented that would not cut off vehicle access to the subject property. The only reasonable solution was to purchase the flood prone property.

Project Status: FY14/15: Negotiations to purchase property are underway. FY15/16: Demolish building and complete planting.

Estimated Date of Completion: 06/30/2016

First Year Budgeted: FY14/15

Estimated Project Cost: \$295,000

New Project:

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8130	3950	Storm Maint/Replacement	\$60,000	FY2015/16
<u>Total for FY:</u>			\$60,000	

Project Data

Storm

Project Number: 3225
Project Name: 155th Ave Sidewalk, Bikelane and Waterline Improvements (Sexton Mtn Dr to Flagstone Dr)
Project Description: Construct approximately 1,000 feet of 12-inch waterline on SW 155th Avenue between Sexton Mtn Dr and Flagstone Dr. Also, construct curb and sidewalk to fill gaps and construct 400 feet of open channel drainage.

 Perform 5 year wetland monitoring and associated reports beginning in FY2013-14.
First Year Budgeted: FY10/11

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
3225	3950	Storm Maint/Replacement	\$5,000	FY2015/16
<u>Total for FY:</u>			\$5,000	

Project Number: 8023
Project Name: Strategic Drainage Easement
Project Description: Respond to unprogrammed easement needs for the Storm Drainage system.
First Year Budgeted: FY02/03

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8023	3915	Storm SDC Conveyance	\$5,000	FY2015/16
	3950	Storm Maint/Replacement	\$10,000	FY2015/16
<u>Total for FY:</u>			\$15,000	

Project Number: 8085
Project Name: Priority Catch Basin Replacements
Project Description: Annual program that began in FY2009/10 to replace up to five (5) catchbasins located in sag areas along streets that flood due to clogging of the catchbasins primarily due to leaf fall or insufficient existing piping.
First Year Budgeted: FY09/10

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8085	3950	Storm Maint/Replacement	\$30,000	FY2015/16
<u>Total for FY:</u>			\$30,000	

Project Number: 8102
Project Name: Storm Drainage Repair on Overlay Streets
Project Description: Repair of storm drainage pipes and structures on streets scheduled for a pavement rehabilitation during the fiscal year (see FY2014/15 Street Overlay list).
First Year Budgeted: FY10/11

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8102	3950	Storm Maint/Replacement	\$75,000	FY2015/16
<u>Total for FY:</u>			\$75,000	

Project Number: 8122
Project Name: CIPP Storm Major Rehabilitation
Project Description: Begin planning for the rehabilitation of multiple storm pipes using Cured in Place Pipe (CIPP) technology. CIPP is one of several trenchless rehabilitation methods used to repair existing pipelines. CIPP is a jointless, seamless, pipe-within-a-pipe with the capability to rehabilitate pipes ranging in diameter from 4" to 110". The City has used CIPP extensively since 2006.
First Year Budgeted: FY14/15

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8122	3950	Storm Maint/Replacement	\$20,000	FY2015/16
Total for FY:			\$20,000	

Project Number: 8123
Project Name: Stormwater Pond Major Rehabilitation
Project Description: Vegetation establishment after major restoration of stormwater ponds such as Little People's Park as well as major rehabilitation of ponds such as Fountain Court.
First Year Budgeted: FY14/15

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8123	3916	Storm SDC Water Quantity	\$30,000	FY2015/16
	3950	Storm Maint/Replacement	\$45,000	FY2015/16
Total for FY:			\$75,000	

Project Number: 8124
Project Name: Stormwater Outfall Major Repairs
Project Description: Make major repairs to existing stormwater outfalls such as at 67th Ave and Millikan Wy near Discovery.
First Year Budgeted: FY14/15

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8124	3950	Storm Maint/Replacement	\$30,000	FY2015/16
Total for FY:			\$30,000	

Project Number: 8129
Project Name: FY15/16 Small Works Drainage & In-House Staff Time
Project Description: Respond to unprogrammed storm water projects in a timely manner that result from unanticipated problems.
First Year Budgeted: FY15/16

Funding Data:

<u>Project No.</u>	<u>Fund No.</u>	<u>Fund Name</u>	<u>Amount</u>	<u>FY</u>
8129	3915	Storm SDC Conveyance	\$50,000	FY2015/16
	3916	Storm SDC Water Quantity	\$11,000	FY2015/16
	3917	Storm SDC Water Quality	\$11,000	FY2015/16
	3950	Storm Maint/Replacement	\$130,000	FY2015/16
Total for FY:			\$202,000	

**CITY OF BEAVERTON
CAPITAL IMPROVEMENTS PLAN (CIP)
FOR FY 2015-16 THROUGH FY 2019-20**



INSERTION OF 24-INCH SANITARY SEWER PIPE IN STEEL CASING

PROJECTS PLANNED FOR FY 2016-17 THROUGH FY 2019-20

- Transportation & Civic Projects
- Street Rehabilitation Program
- Water Projects
- Sanitary Sewer Projects
- Storm Drainage Projects

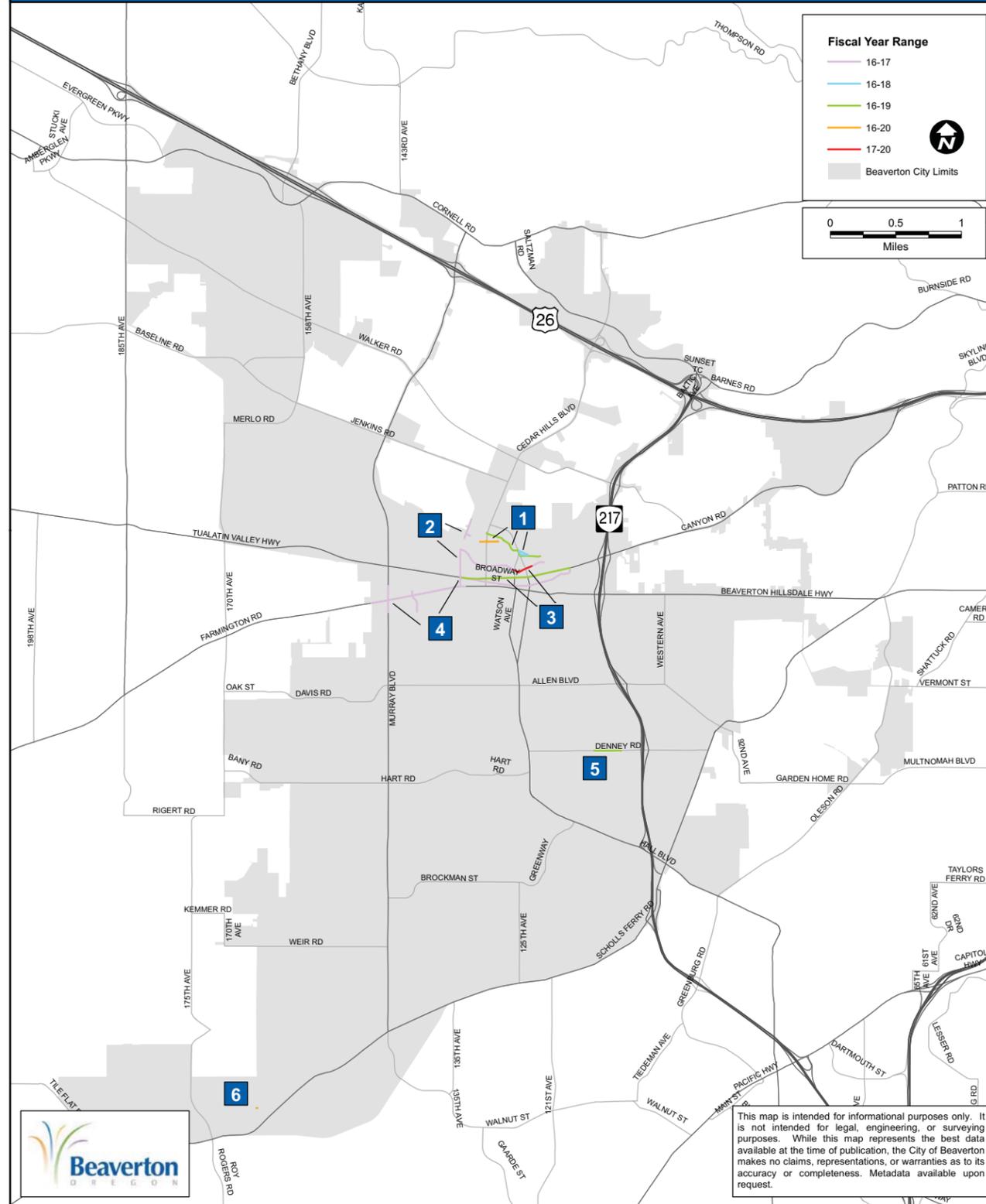
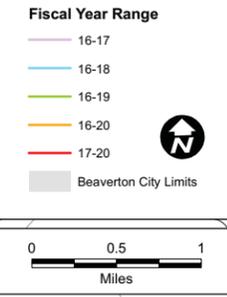
Transportation & Civic Projects
FY 2016 - 2020

TRANSPORTATION & CIVIC - FY 2016-17 THROUGH FY 2019-20

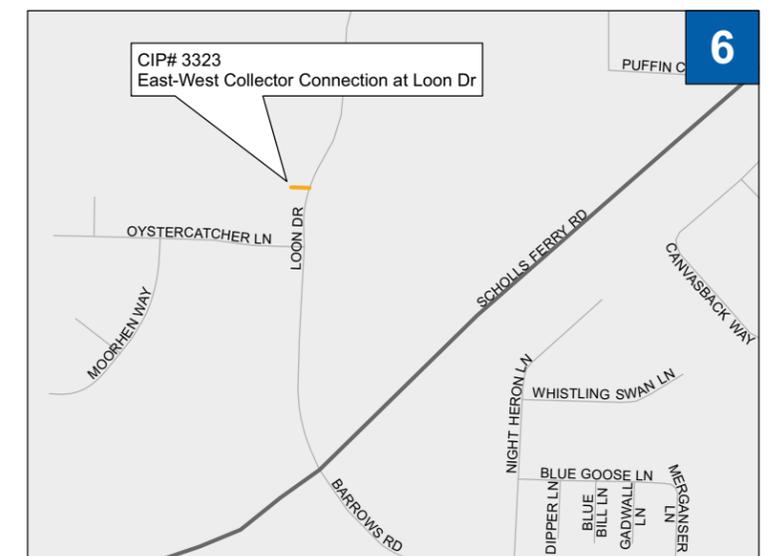
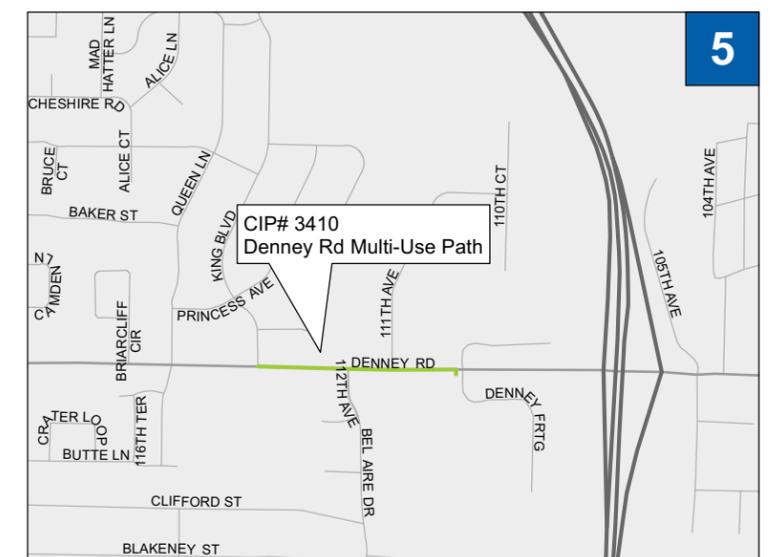
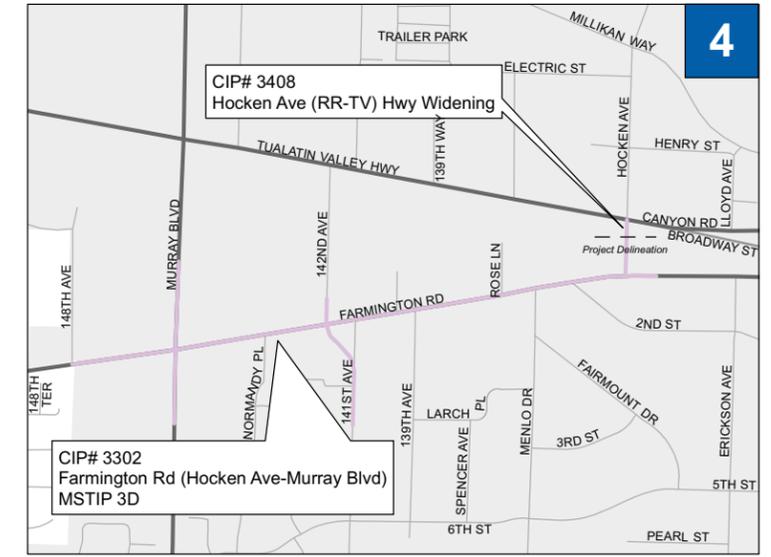
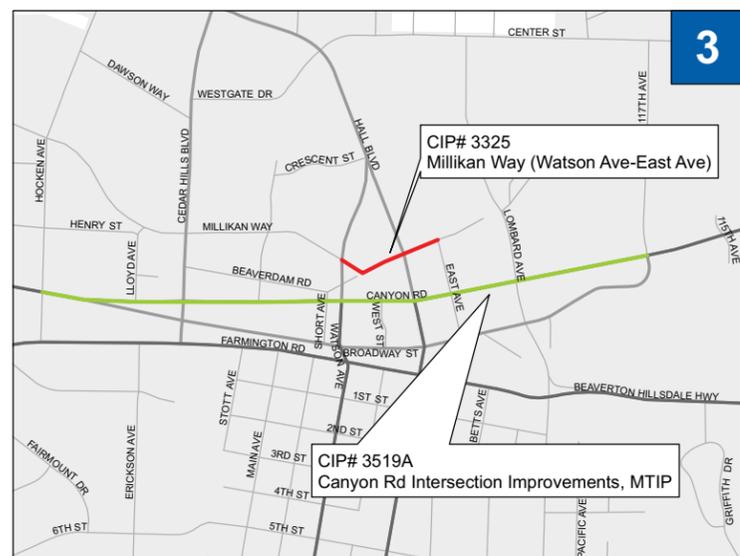
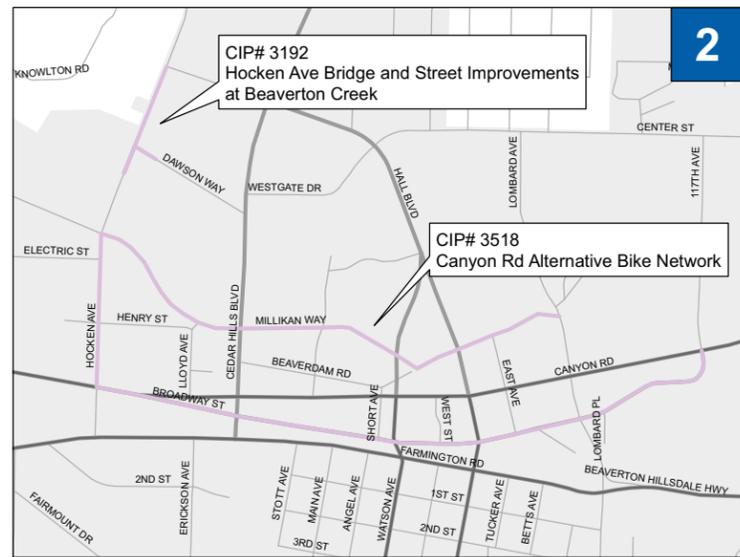
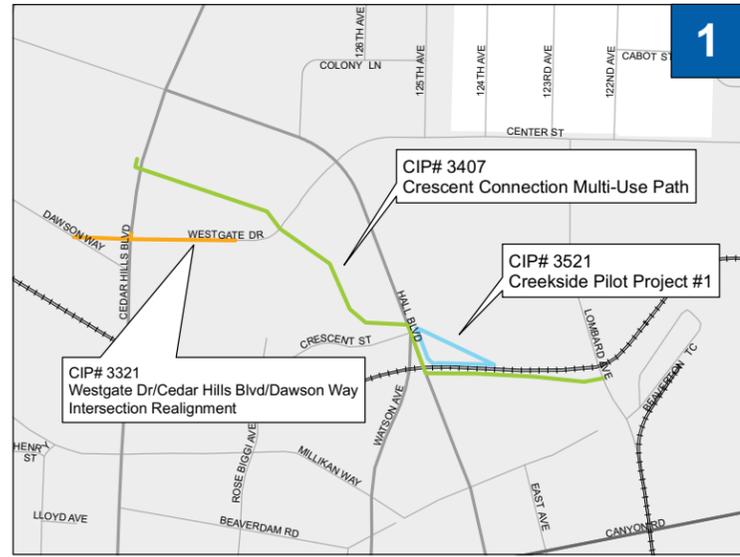
CIP #	PROJECT NAME	2016-2017				2017-18				2018-19				2019-20		
		Grant	001	3950	101	114	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE
3408	TRANSPORTATION Hocken Ave (RR - TV Hwy) Widening					\$20,000 \$550,000 \$570,000	E C									
3189	Annual Traffic Calming Project				\$25,000	\$25,000	E/C			\$25,000	E/C			\$25,000	E/C	
3223	Traffic Enhancement Projects															
3226	Miscellaneous Transportation Projects				\$60,000	\$60,000	E/ROW/C			\$60,000	E/ROW/C			\$60,000	E/ROW/C	
3192	Hocken Ave Bridge and Street Improvements at Beaverton Creek					\$20,000 \$30,000 \$50,000	E C									
3302	Farmington Rd (Hocken-Murray), MSTIP 3D					\$126,000	E			\$126,000	E					
3321	Westgate Dr/Cedar Hills Blvd/Dawson Wy Intersection Realignment					\$45,000 \$50,000 \$95,000	E ROW			\$25,000 \$125,000	E ROW			\$25,000 \$250,000	E ROW	\$1,200,000 C
3325	Millikan Wy (Watson Av - East St)					\$20,000	P			\$20,000	P			\$120,000	E	
3407	Crescent Connection Shared Use Path					\$25,000 \$25,000 \$50,000	E ROW			\$850,000 \$40,000	C E			\$100,000 \$25,000	C E	
3410	Denney Rd Shared Use Path				\$25,000 \$20,000	\$25,000 \$20,000 \$45,000	E ROW			\$350,000 \$30,000	C (1) E			\$25,000 \$7,000	C E	
3518	Canyon Rd Alternative Bike Network				\$251,000	\$471,000	C									
3519A	Canyon Rd Intersection Improvements, MTIP				\$1,000,000	\$2,000,000	ROW			\$2,185,000 \$1,000,000	C (2) C			\$250,000	C	
3521	Creekside Pilot Project #1 (Francis Triangle)					\$5,000 \$25,000 \$30,000	E C			\$5,000	M					
TBD	Sidewalk Project TBD					\$135,000	E			\$135,000	E			\$75,000	ROW	\$450,000 C
3323	East-West Collector Connection at Loon Dr					\$25,000 \$90,000 \$115,000	E ROW			\$30,000 \$20,000	ROW E			\$136,000 \$35,000	C E	
	TOTAL	\$1,000,000	\$451,000	\$550,000	\$550,000	\$3,007,000			\$4,795,000				\$1,098,000		\$1,855,000	
	PHASE		FUNDING SOURCE													
P	Planning	001	General Fund													
E	Engineering	101	Street Fund	(1)	\$250,000	reimbursed by WASHCO										
ROW	Right of Way	114	TIF/TDT	(2)	\$2,185,000	provided by Federal funds										
C	Construction	3950	Storm													
M	Maintenance															
	WASHCO MSTIP 3D and ODOT projects are not included															

THIS PAGE LEFT INTENTIONALLY BLANK

Civic & Transportation CIP Projects FY 2016-17 Through FY 2019-20



This map is intended for informational purposes only. It is not intended for legal, engineering, or surveying purposes. While this map represents the best data available at the time of publication, the City of Beaverton makes no claims, representations, or warranties as to its accuracy or completeness. Metadata available upon request.



Street Rehabilitation Projects
FY 2016-2020

FY 2016-17 STREET REHABILITATION PROGRAM

STREET NAME	FROM STREET	TO STREET	PCI	Tons	Cost of Overlay
SW SCOUT DR	SW TRIGGER DR	SW 130th AVE	72	486	\$ 36,933.81
SW 19TH ST	EOP	SW 130TH AVE	67	272	\$ 20,671.17
SW 20TH CT	EOP	SW DALE AVE	73	115	\$ 8,707.05
SW 27TH ST	SW 126TH CT	SW JUNIPER TER	82	336	\$ 25,521.70
SW DALE AVE	SW ALLEN BLVD	SW JUNIPER TER	58	1222	\$ 92,875.16
SW GLENN DR	SW DALE AVE	SW 130TH AVE	66	258	\$ 19,641.12
SW HILL PL	SW DALE AVE	EOP	74	53	\$ 3,998.79
SW JUNIPER TER	SW 127TH AVE	SW JUNIPER TER	87	428	\$ 32,490.18
SW LARKSPUR PL	EOP	EOP	71	139	\$ 10,599.26
SW LILY PL	EOP	SW BARLOW RD	62	119	\$ 9,081.70
SW TIGER LILLY LN	SW 125TH PL	SW JUNIPER TER	82	271	\$ 20,563.99
SW TRILLIUM AVE	SW 27TH ST	SW HART RD	74	204	\$ 15,495.32
SW VALE CT	EOP	SW DALE AVE	71	56	\$ 4,292.82
SW CLIFFORD ST	SW BEL AIRE DR	SW CRESMOOR DR	38	909	\$ 69,075.90
SW CRESMOOR DR	SW ALPINE DR	SW BLAKENEY ST	65	830	\$ 63,069.18
SW ALPINE DR	EOP	SW CRESMOOR DR	79	195	\$ 14,804.82
SW BEL AIRE DR	SW 112TH AVE	SW BEL AIRE LN	74	1431	\$ 108,752.72
SW BEL AIRE LN	SW BEL AIRE DR	SW HILLCREST PL	80	1133	\$ 86,103.01
SW BELMONT DR	SW BELMONT TER	SW RIDGECREST DR	66	311	\$ 23,613.36
SW BELMONT TER	SW BELMONT DR	SW HILLCREST PL	38	299	\$ 22,702.82
SW CHERYL LN	SW TIMBERLINE DR	SW BLAKENEY ST	71	331	\$ 25,191.63
SW CARDINAL TER	SW BEL AIRE DR	SW BEL AIRE LN	69	388	\$ 29,478.76
SW CINDY ST	SW BEL AIRE DR	SW BLAKENEY ST	66	343	\$ 26,052.85
SW DENNEY FRTG	EOP	SW DENNY RD	62	267	\$ 20,283.24
SW HILLCREST PL	SW BLAKENEY ST	SW BEL AIRE LN	67	940	\$ 71,446.15
SW HILLCREST CT	SW HILLCREST PL	EOP	67	108	\$ 8,194.87
SW RIDGECREST DR	SW BEL AIRE DR	SW BEL AIRE LN	59	696	\$ 52,887.24
SW RIDGEVIEW TER	SW BELMONT DR	SW HILLCREST PL	63	349	\$ 26,540.37
SW TIMBERLINE DR	SW BEL AIRE DR	SW HILLCREST PL	58	709	\$ 53,892.63
STRIPING, SIGNAL DETECTION, SURVEYING, TESTING					\$ 15,000.00
CONCRETE REPAIRS					\$ 15,000.00
ADA RAMPS					\$ 30,000.00
MISC. PROJECTS					\$ 10,000.00
IMPROVEMENT PROJECT TOTAL					\$ 1,072,961.64

FY 2017-18 STREET REHABILITATION PROGRAM

STREET NAME	FROM STREET	TO STREET	PCI	Tons	Cost of Overlay
SW BARLOW RD	SW HEATH PL	SW HYLAND WAY	65	249	\$ 18,897.99
SW BARLOW RD	SW LARKSPUR PL	SW LILY PL	65	918	\$ 69,801.49
SW LOMBARD AVE	SW 1ST ST	SW 5TH ST	72	668	\$ 50,791.10
SW SORRENTO RD	SW GLENN DR	SW HART RD	69	250	\$ 19,030.30
SW GREENWAY	SW HALL BLVD	SW 125TH AVE	77	2590	\$ 196,875.99
SW HALL BLVD	SW RIDGECREST DR	SW CASCADE AVE	74	5502	\$ 550,218.24
SW WASHINGTON AVE	SW 5TH ST	SW 9TH ST	69	593	\$ 45,094.53
SW FRANKLIN AVE	SW 5TH ST	SW 12TH ST	72	461	\$ 35,055.82
SW 9TH ST	SW WASHINGTON AVE	SW HALL BLVD	69	593	\$ 45,094.53
STRIPING, SIGNAL DETECTION, SURVEYING, TESTING					\$ 20,000.00
CONCRETE REPAIRS					\$ 15,000.00
ADA RAMPS					\$ 30,000.00
MISC. PROJECTS					\$ 10,000.00
IMPROVEMENT PROJECT TOTAL					\$ 1,105,860.01

FY 2018-19 STREET REHABILITATION PROGRAM

STREET NAME	FROM STREET	TO STREET	PCI	Tons	Cost of Overlay
SW MILLIKAN WAY	SW HALL BLVD.	SW ROSE BIGGI	79	762	\$ 57,904.70
SW MILLIKAN WAY	SW CEDAR HILLS BLVD	SW MURRAY RD	76	3075	\$ 233,724.44
SW 124TH AVE	SW ALLEN BLVD	SW METZ ST	72	392	\$ 29,801.24
SW 130TH AVE	SW ALLEN BLVD	SW HART RD	79	2572	\$ 195,439.05
SW 141ST AVE	SW FARMINGTON RD	SW ALLEN BLVD	78	1906	\$ 144,884.11
SW GREYSTONE CT	SW WALKER RD	EOP	61	449	\$ 34,145.28
SW MILES CT	SW EVAN CT	SW OLESON RD	52	337	\$ 25,634.57
SW CANYON LN	SW CANYON RD	SW CANYON RD	72	2723	\$ 206,920.40
SW 81ST AVE	SW WEST SLOPE DR	SW ERNST RD	75	320	\$ 24,328.51
SW 83RD AVE	SW ERNST RD	SW SHILLER RO	75	266	\$ 20,183.65
STRIPING, SIGNAL DETECTION, SURVEYING, TESTING					\$ 30,000.00
CONCRETE REPAIRS					\$ 20,000.00
ADA RAMPS					\$ 40,000.00
MISC. PROJECTS					\$ 20,000.00
IMPROVEMENT PROJECT TOTAL					\$ 1,082,965.96

FY 2019-20 STREET REHABILITATION PROGRAM

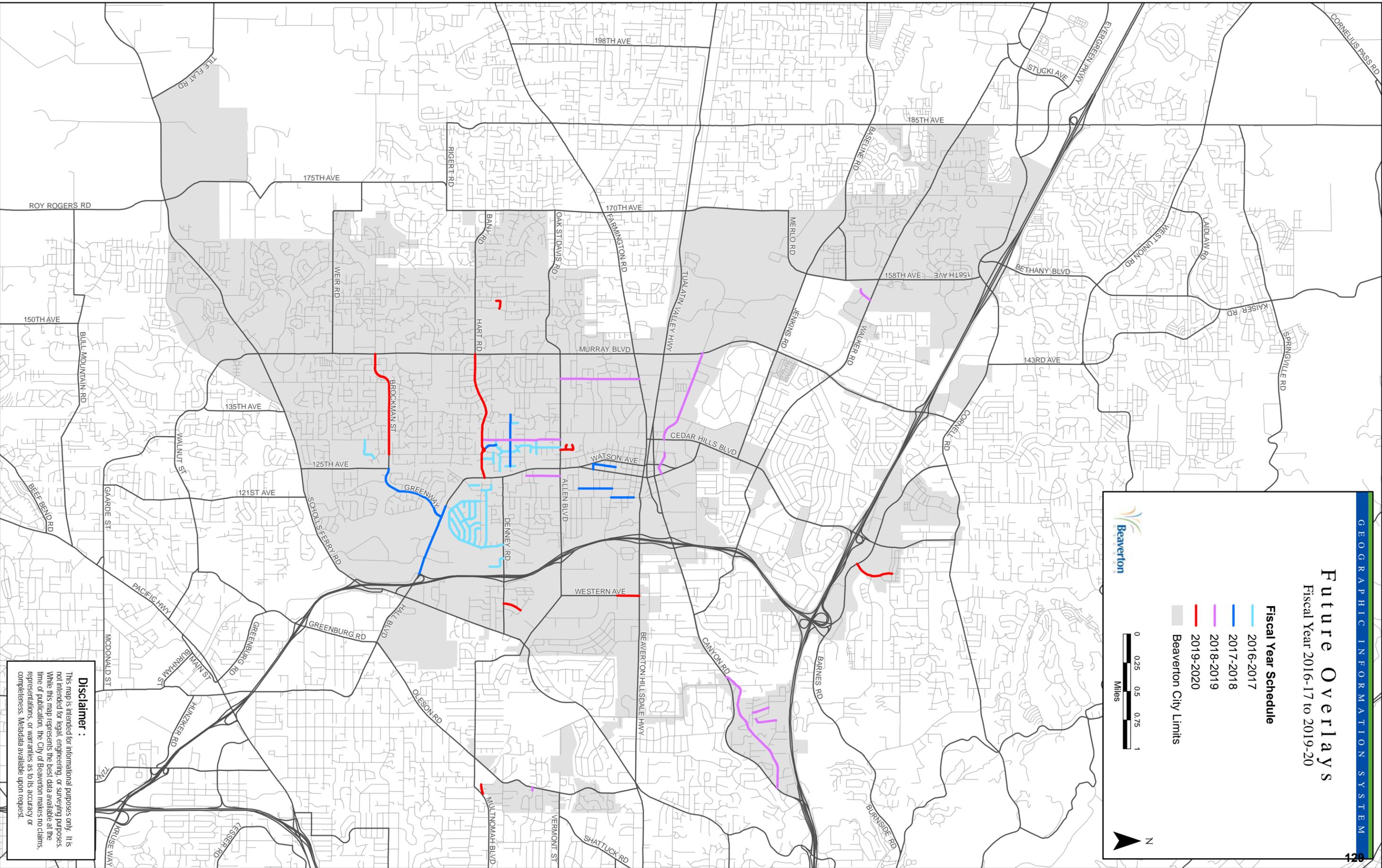
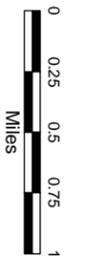
STREET NAME	FROM STREET	TO STREET	PCI	Tons	Cost of Overlay
SW HART RD	SW HALL BLVD	SW MURRAY BLVD	64	4670	\$ 354,940.19
SW OAKWOOD DR	SW ROLLINGWOOD DR	SW WINTER LN	74	83	\$ 6,298.10
SW OAKWOOD DR	SW WINTER LN	SW DENNEY RD	74	215	\$ 16,368.47
SW RAILROAD ST	SW 69TH AVE	SW 70TH AVE	54	63	\$ 4,817.85
SW RAILROAD ST	SW 68TH AVE	SW 69TH AVE	54	69	\$ 5,220.81
SW TARALYNN AVE	EOP	SW TARALYNN PL	80	211	\$ 16,047.91
SW TARALYNN AVE	SW TARALYNN PL	SW ALLEN BLVD	80	90	\$ 6,867.06
SW TARALYNN PL	SW TARALYNN AVE	EOP	77	79	\$ 5,986.15
SW VALERIA VIEW DR	SW TAYLOR ST	SW BARNES RD	76	829	\$ 63,016.24
SW VALERIA VIEW DR	SW 105TH TER	SW TAYLOR ST	76	410	\$ 31,181.94
SW VALERIA VIEW DR	SW WASHINGTON ST	SW CELESTE LN	76	121	\$ 9,222.62
SW VALERIA VIEW DR	SW CELESTE LN	SW 105TH TER	76	383	\$ 29,111.19
SW WESTERN AVE	SW BEAVERTON HILLSDAL	SW 5TH ST	75	845	\$ 64,232.61
SW WOODWIND CT	SW WOODWIND ST	EOP	73	124	\$ 9,426.62
SW WOODWIND ST	SW 152ND AVE	SW WOODWIND CT	73	76	\$ 5,785.99
SW BROCKMAN ST	SW MURRAY BLVD	SW SORRENTO RD	71	5076	\$ 385,765.79
STRIPING, SIGNAL DETECTION, SURVEYING, TESTING					\$ 30,000.00
CONCRETE REPAIRS					\$ 20,000.00
ADA RAMPS					\$ 40,000.00
MISC. PROJECTS					\$ 20,000.00
IMPROVEMENT PROJECT TOTAL					\$ 1,124,289.53

Future Overlays

Fiscal Year 2016-17 to 2019-20

Fiscal Year Schedule

- 2016-2017
- 2017-2018
- 2018-2019
- 2019-2020
- Beaverton City Limits



Disclaimer :
 This map is intended for informational purposes only. It is not intended for legal, engineering, or surveying purposes. While this map represents the best data available at the time of publication, the City of Beaverton makes no claims, representations, or warranties as to its accuracy or completeness. Metadata available upon request.

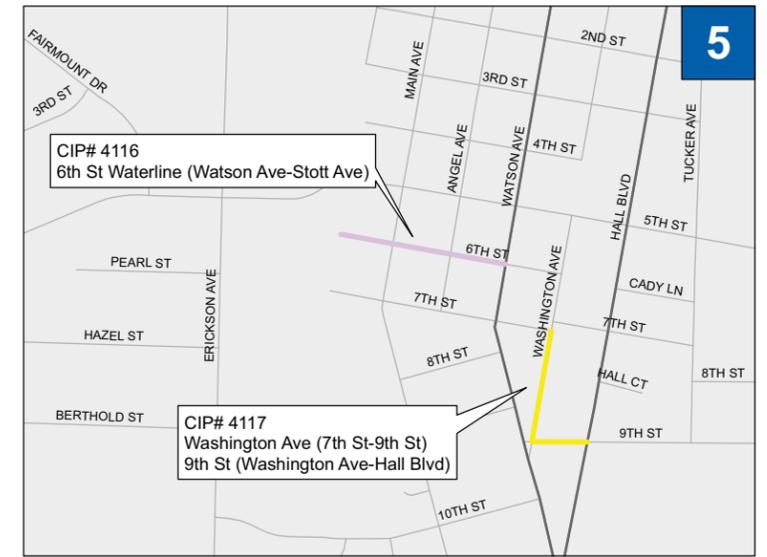
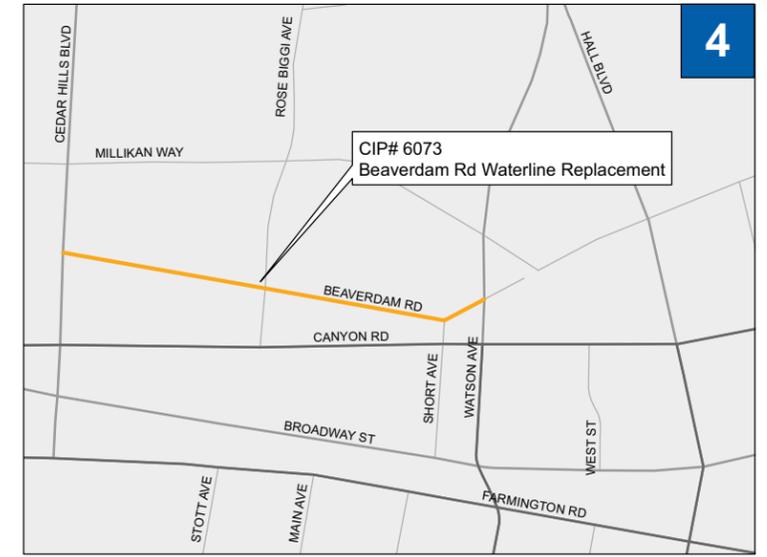
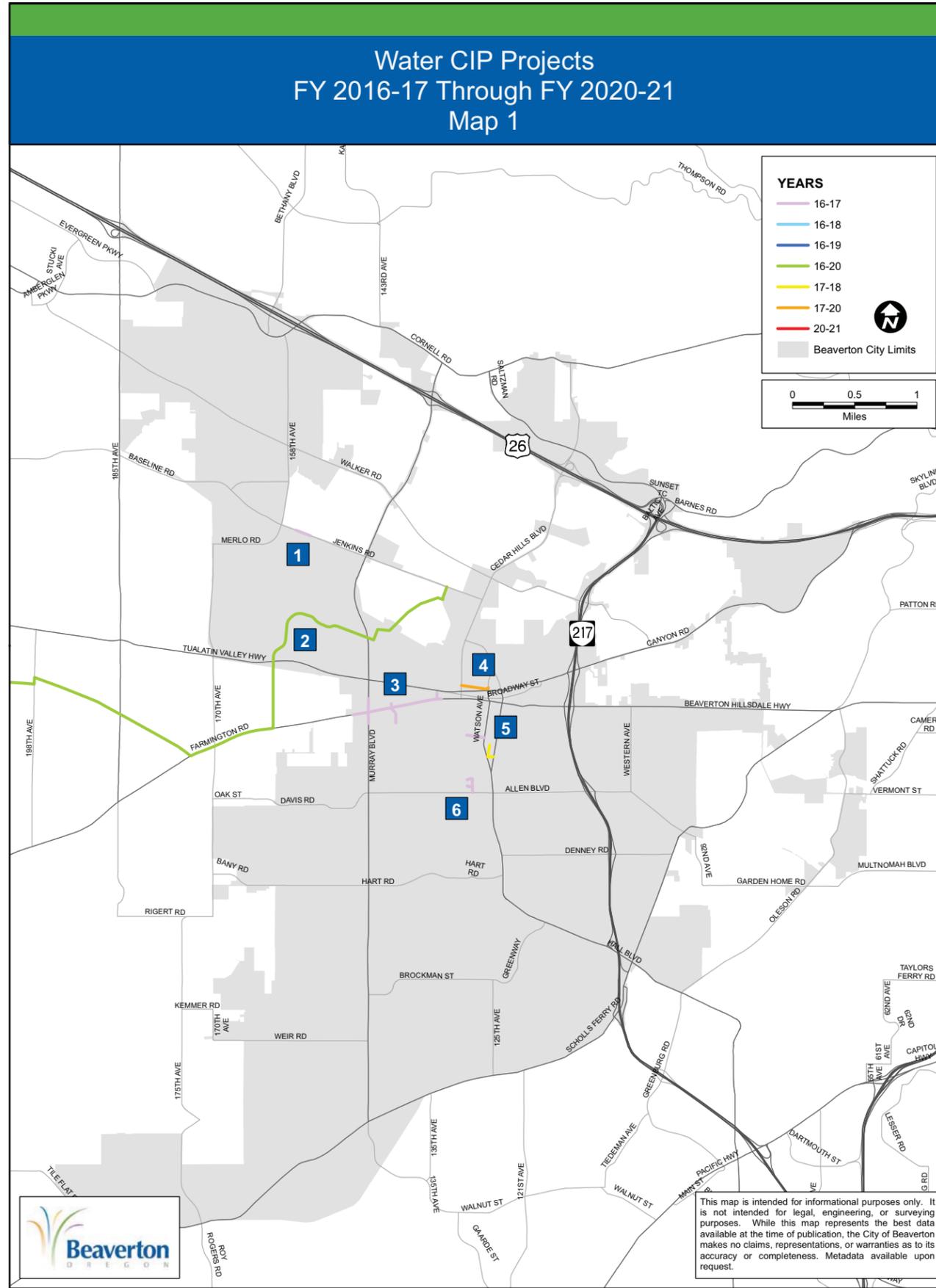
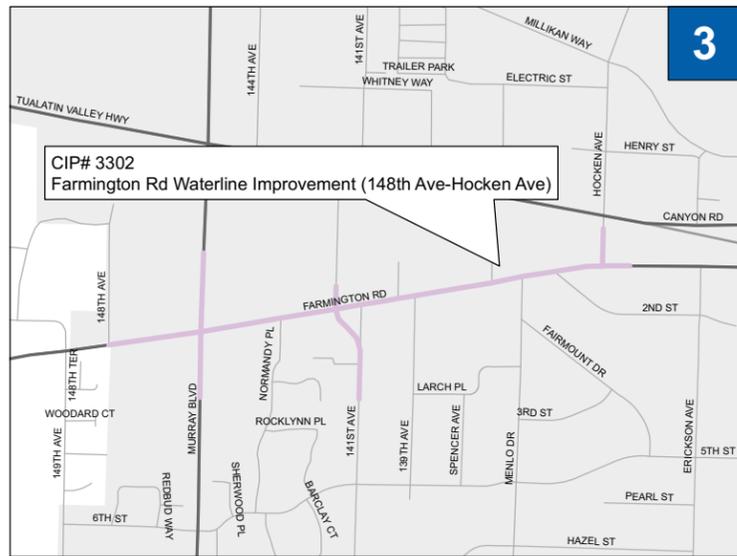
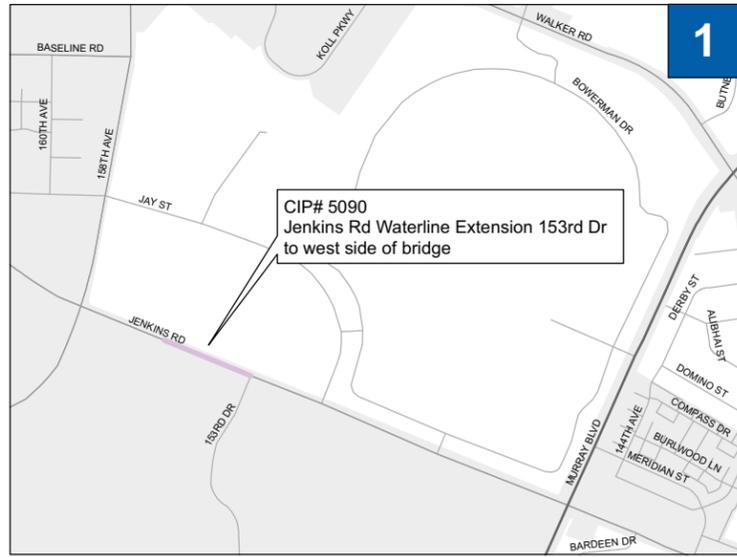
Water System Improvement Projects
FY 2016-2020

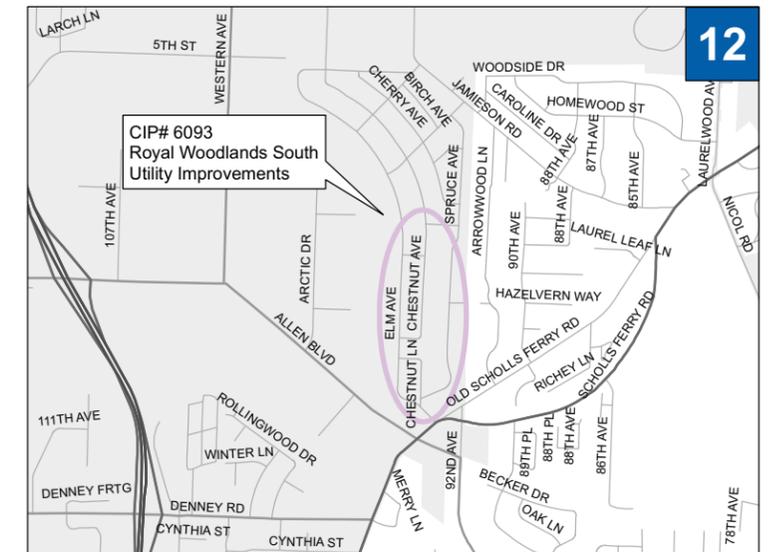
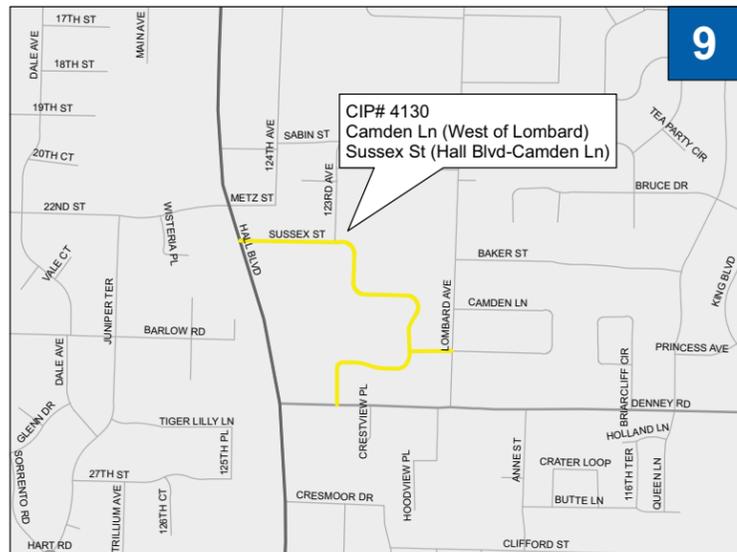
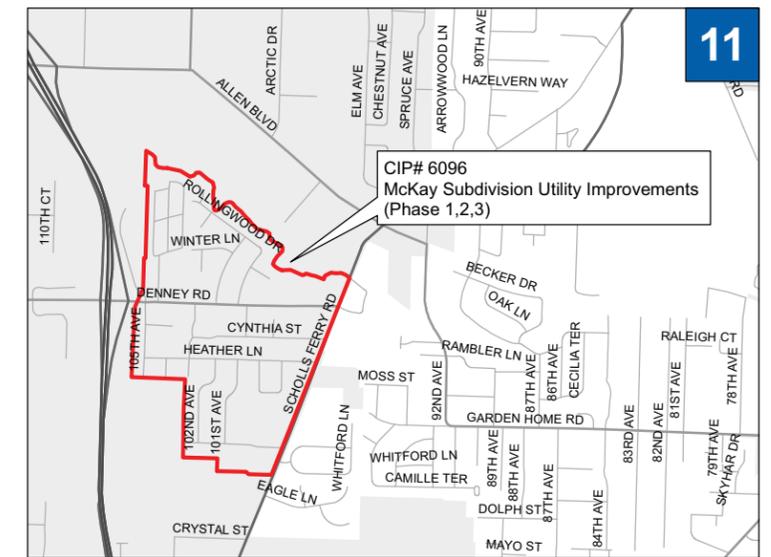
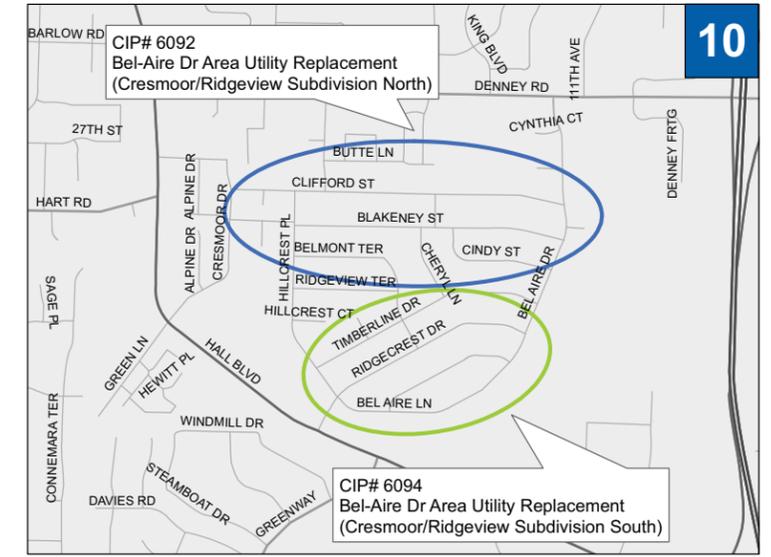
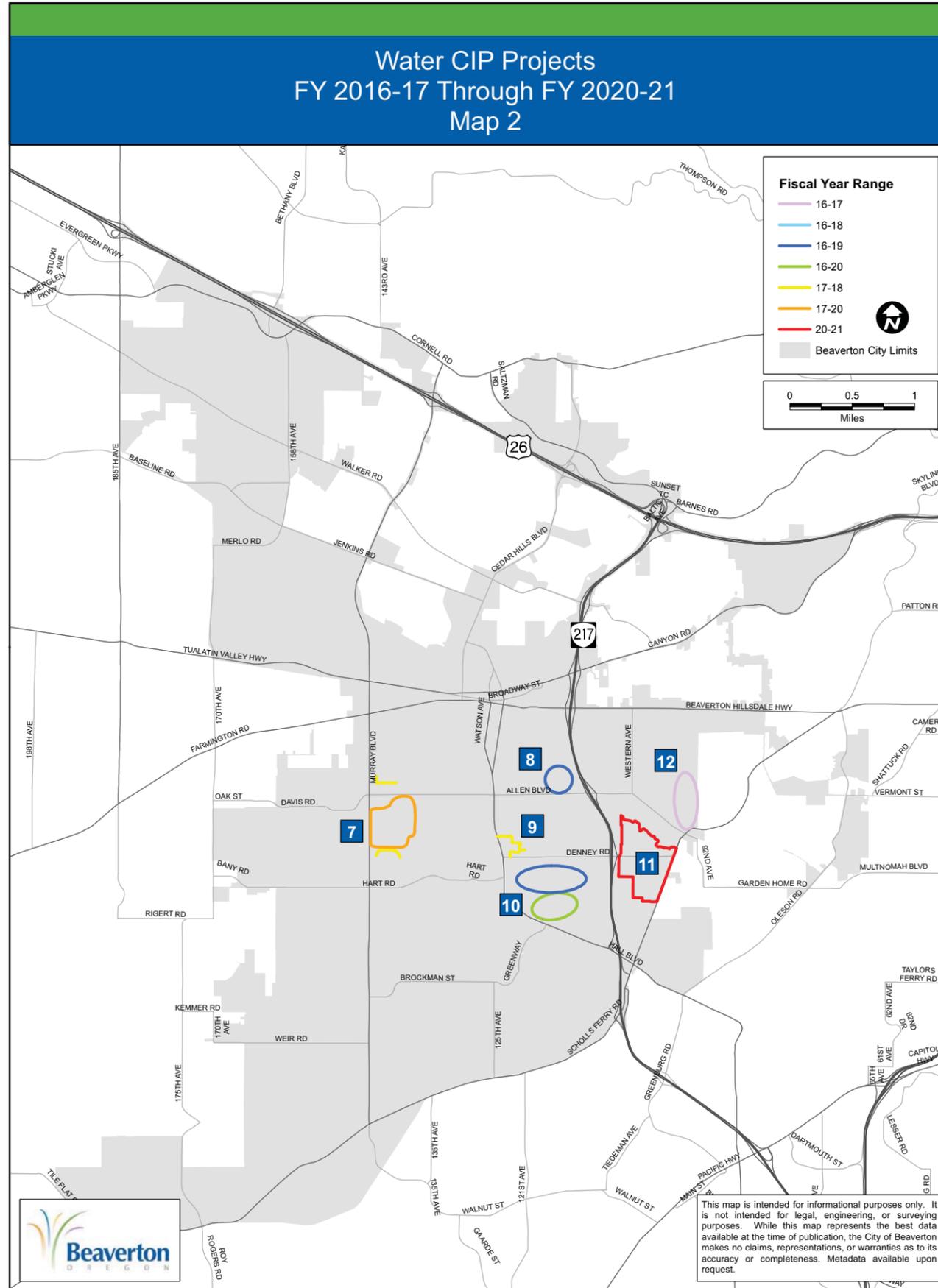
WATER - FY2016-17 THROUGH FY 2019-20
(2015 dollars)

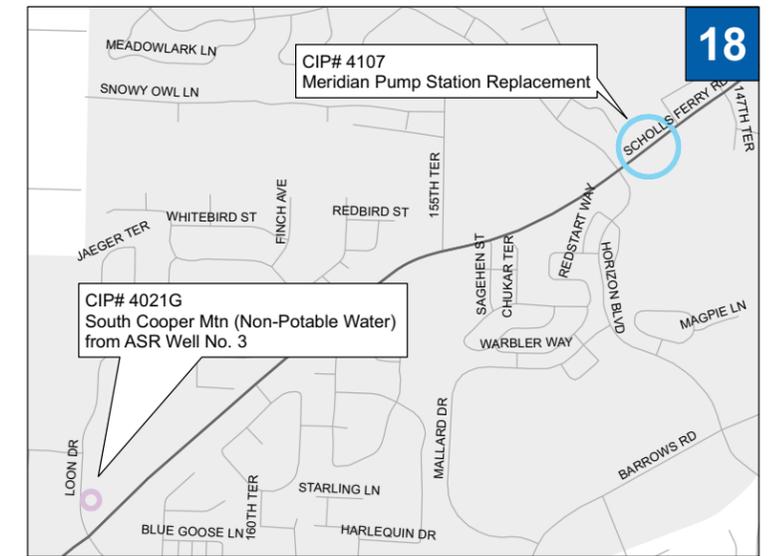
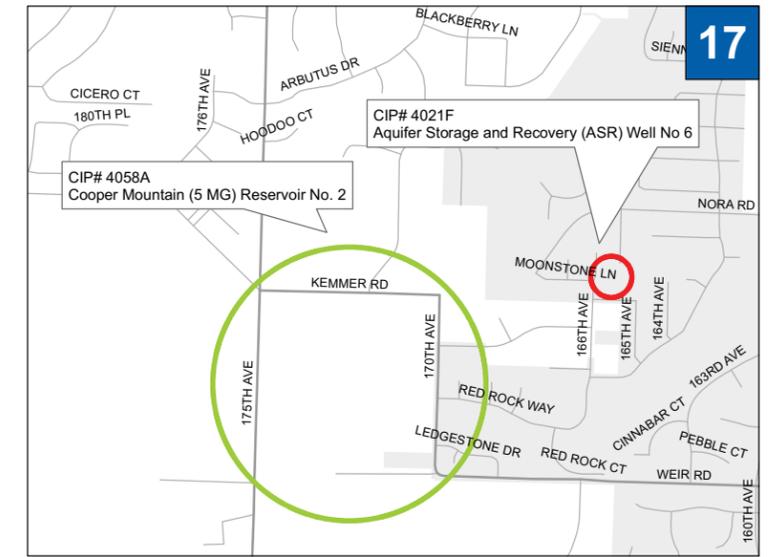
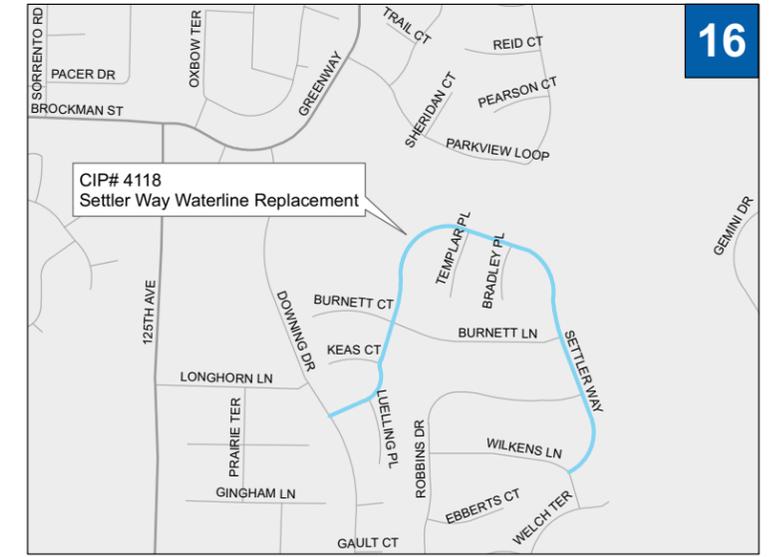
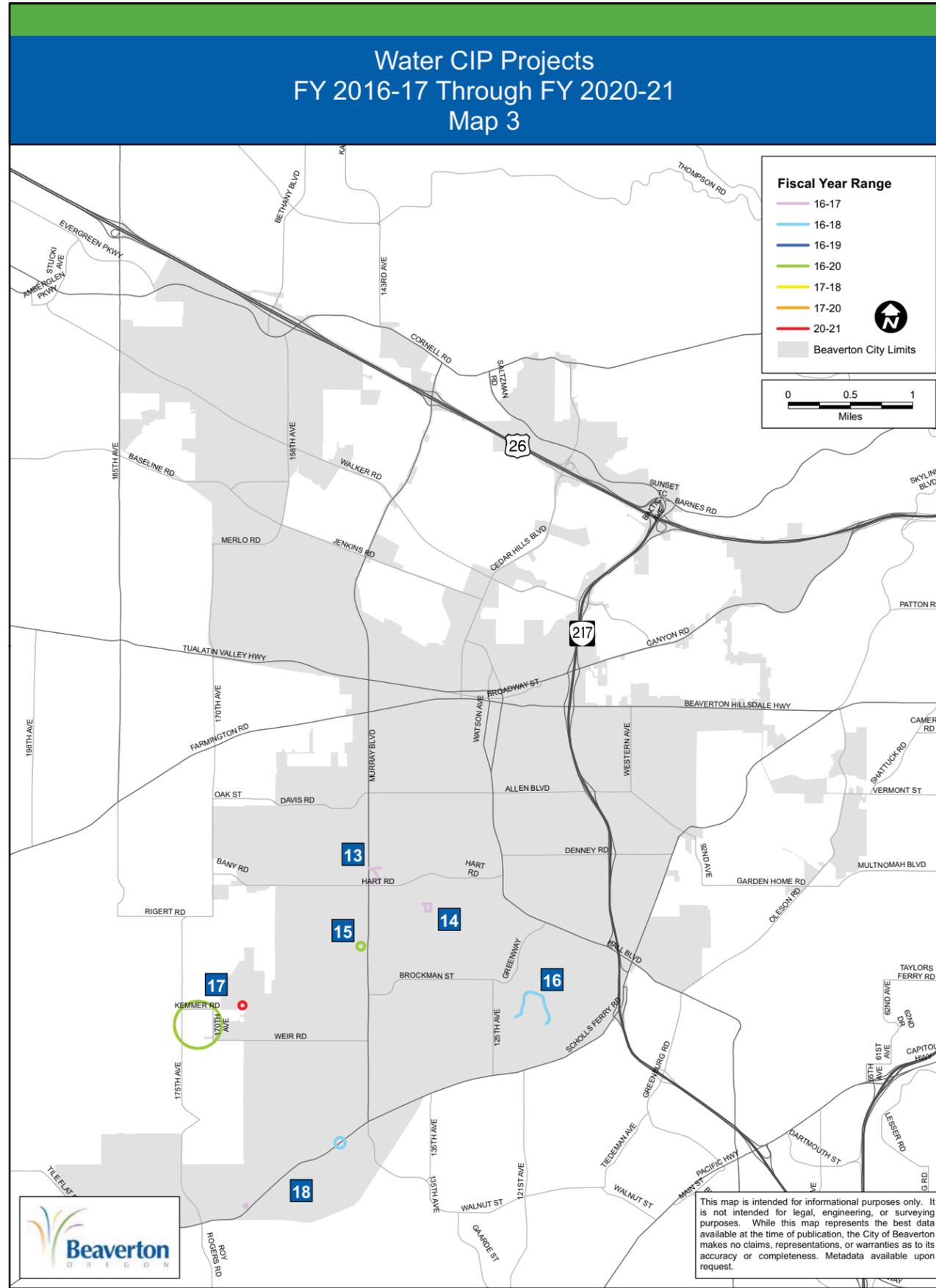
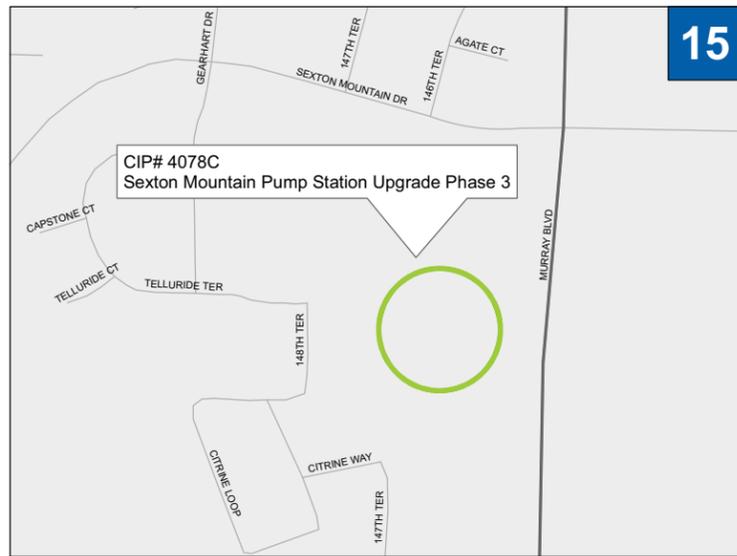
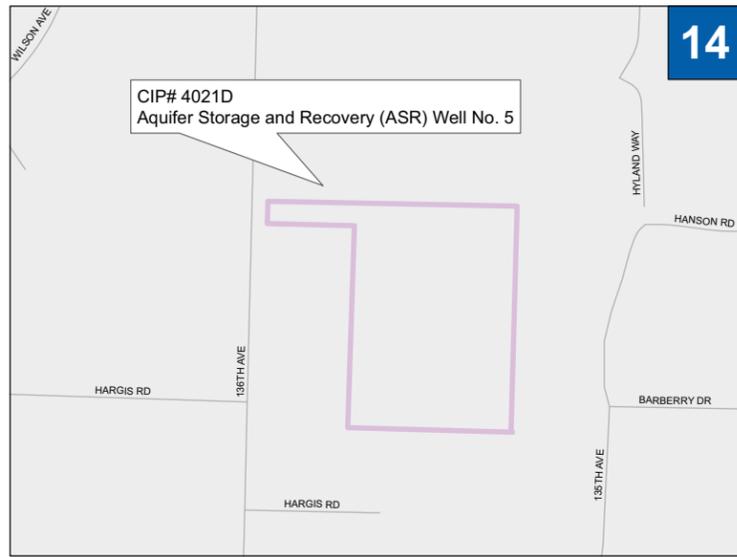
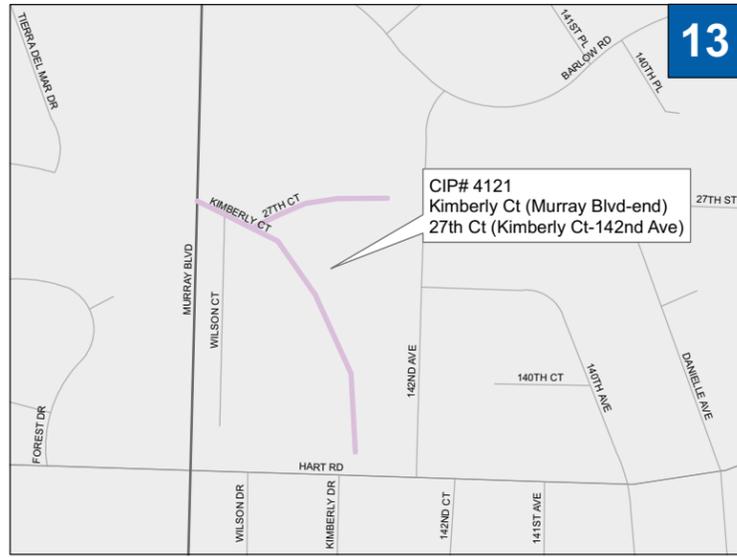
Fund	Program No.	Project No.	Project Title	Fiscal Year					Total 16-17 thru 20-21
				2016-17	2017-18	2018-19	2019-20	2020-21	
501	3700		Annual Waterline Maintenance & Replacement Projects (3700)	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000	\$900,000
501	3611	3611	JWC Projects	\$399,324	\$430,000	\$1,052,103	\$810,618	\$300,000	\$2,992,045
505	3635	3635	JWC Capacity Projects	\$200,000	\$200,000	\$200,000	\$200,000		\$800,000
501	3701	4113	STL Reed's Crossing - Replace/Move Vault&Meter to 209th Ave, Upgrade Piping	\$0	\$0	\$0	\$0		\$0
501	3701	4060	Water System Security Upgrades	\$20,000	\$20,000	\$20,000	\$20,000		\$80,000
501	3701	4021E	ASR Operations Support (on-call)	\$60,000	\$60,000	\$60,000	\$60,000		\$240,000
501	3701	4088	Energy Recovery Hydro Projects (Energy Trust of Oregon)	\$0	\$0	\$0	\$0		\$0
501	3701	4031	Small Works - Small Maintenance and Replacement	\$75,000	\$75,000	\$75,000	\$75,000		\$300,000
501	3701	3516	South Plaza at The Round Improvements	\$0	\$0	\$0	\$0		\$0
501	3701	4095	Standpipe (1.75 MG) Maintenance	\$0	\$0	\$0	\$0		\$0
501	3701	4079	Sorrento Pump Station Improvements	\$0	\$0	\$0	\$0		\$0
501	3701	4105	Scholls Ferry Road-Fanno Creek Bridge - Waterline Relocation	\$0	\$0	\$0	\$0		\$0
501	3701	6072	Main Avenue Improvements (2nd to 5th Street) 850 LF of 12"	\$0	\$0	\$0	\$0		\$0
501	3701	4094	SW 3th Street Waterline Improvements (Stott to Washington) 1,300 LF of 8"	\$0	\$0	\$0	\$0		\$0
501	3701	4094	SW 4th Street Waterline Improvements (Stott to Watson) 850 LF of 6"	\$0	\$0	\$0	\$0		\$0
501	3701	4083	Duncan Lane, Jameson to the west (700 LF of 6" DIP)	\$0	\$0	\$0	\$0		\$0
501	3701	4111	Hyland Way Ct. (200 LF 4" DIP serving addresses 7150 - 7180)	\$0	\$0	\$0	\$0		\$0
501	3701	6095	11 th Street - Lee to Alger (1,150 LF 6" DIP)	\$173,420	\$0	\$0	\$0		\$173,420
501	3701	4109	Denney Road Waterline Improvement (1,200 LF of 12")	\$0	\$0	\$0	\$0		\$0
501	3701	4112	Hyland Park Ct. (350 LF 4" DIP serving addresses 13460 - 13490)	\$0	\$0	\$0	\$0		\$0
501	3701	4110	Larson Street - Erickson to end of street (650 LF 6" DIP)	\$0	\$0	\$0	\$0		\$0
501	3701	4114	Maplecrest Ct. - Rollingwood Drive to end of cul-de-sac (300 LF 4")	\$0	\$0	\$0	\$0		\$0
501	3701	4114	Cranberry Ct. - Glenbrook Rd. to end (260 LF of 4")	\$0	\$0	\$0	\$0		\$0
501	3705	4001	Fire Hydrant Replacement Program	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$300,000
505	3620	6083	Royal Woodlands West Utility Improvements	\$0	\$0	\$0	\$0		\$0
505	3620	6044	Royal Woodlands East Utility Improvements	\$0	\$0	\$0	\$0		\$0
505	3620	4078C	Sexton Mt. Pump Station Upgrade, Phase 3, design	\$100,000	\$100,000	\$100,000	\$100,000		\$400,000
505	3620	4088A	Sexton Mt. Reservoir Solar Array	\$0	\$0	\$0	\$0		\$0
505	3620	4088A	Future 5 MG Sexton Mt. Reservoir - Site Preparation	\$0	\$0	\$0	\$0		\$0
505	3620	3408	Hocken Avenue Bridge, 12" Waterline Improvements	\$0	\$0	\$0	\$0		\$0
505	3620	3408	Hocken Avenue, R/R to TV Hwy	\$0	\$0	\$0	\$0		\$0
505	3620	3316	Rose Biggi Avenue (Hall to Crescent) (1,586 LF of 12")	\$0	\$0	\$0	\$0		\$0
505	3620	4106	Scholls Ferry Road Improvement - Loon to Roy Rogers (2,100 LF of 24")	\$0	\$0	\$0	\$0		\$0
505	3620	4018	Wellhead Protection	\$5,000	\$5,000	\$5,000	\$5,000		\$20,000
505	3620	4024	Water Extra-Capacity Projects	\$50,000	\$50,000	\$50,000	\$50,000		\$200,000
505	3620	4006	Water System Telemetry (annual upgrade project)	\$40,000	\$40,000	\$40,000	\$40,000		\$160,000
501	3701	4130	Camden Lane (west of Lombard Ave), 1,400 LF of 6"	\$0	\$211,120	\$0	\$0		\$211,120
501	3701	3302	Farmington Road Waterline Improvement (148th to Hocken) 4,000 LF of 12" & 16"	\$0	\$0	\$0	\$0		\$0
505	3620	3302	Farmington Road Waterline Improvement (148th to Hocken) 4,000 LF of 12" & 16"	\$0	\$0	\$0	\$0		\$0
505	3620	6083	South Cooper Mt. Infrastructure Plan (Potable)						\$0
501	3701	4116	6th Street Waterline - Watson to Stott (825 LF of 6" DIP)	\$124,410	\$0	\$0	\$0		\$124,410
501	3701	5090	Jenkins Waterline Extension 153rd to west side of bridge	\$200,000	\$0	\$0	\$0		\$200,000
501	3701	4118	Settler Way Waterline Replacement (1,400 LF of 6") Phase 1	\$211,120		\$0	\$0		\$211,120
501	3701	4118	Settler Way Waterline Replacement (2,000 LF of 6") Phase 2	\$301,600		\$0	\$0		\$301,600
501	3701	6093	South Royal Woodlands/Pine Hills Subdivision Utility Replacement		\$100,000	\$100,000	\$100,000		\$300,000
501	3701	6094	Bel-Aire Drive area Utility Replacement (Cresmoor/Ridgeview Subdivision South)	\$100,000	\$100,000	\$100,000	\$0		\$300,000
501	3701	6095	Sellwood Subdivision San Sewer Utility Replacement	\$0	\$100,000	\$100,000	\$0		\$200,000
501	3701	6073	Beaverdam Rd Waterline Replacement (Btw CHB and Watson), 1,100 LF of 8"	\$194,480	\$0	\$0	\$0		\$194,480
501	3701	6096	McKay Subdivision (Phases 1, 2, 3) Waterline Replacements	\$205,920	\$100,000	\$100,000	\$100,000		\$505,920
501	3701	4124	Lisa Lane - 141st Ave to Bonnie Brae (1,200 LF of 6")	\$0	\$180,960	\$0	\$0		\$180,960
501	3701	4123	Barlow Ct. - Barlow Road to Barlow Road (1,500 LF of 6")	\$0	\$226,200	\$0	\$0		\$226,200
501	3701	4120	Taralynn Avenue - Allen Blvd. to end (1,000 LF of 6")	\$150,800	\$0	\$0	\$0		\$150,800
501	3701	4131	Area within Murray/Wilson/Allen/Cherryhill in 1/4 Section 3715	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$400,000
501	3701	4121	Kimberly Court (1,100 LF of 6")	\$158,340		\$0	\$0		\$158,340
501	3701	4121	27th Court - Kimberly Ct to 142nd Ave (600 LF of 6")	\$106,080		\$0	\$0		\$106,080
501	3701	4117	Washington-7th to 9th St, 9th St-Washington to Hall (800 LF of 8")	\$0	\$158,080	\$0	\$0		\$158,080
501	3701	4017A	Water System Master Plan	\$0	\$0	\$0	\$0		\$0
505	3620	4058A	Cooper Mountain (5 MG) Reservoir No. 2	\$250,000	\$500,000	\$6,000,000	\$3,400,000		\$10,150,000
505	3620	4021D	ASR Well No. 5	\$2,000,000					\$2,000,000
505	3620	4107	Meridian Pump Station Replacement, Preliminary Design	\$100,000	\$1,200,000	\$0	\$0		\$1,300,000
505	3620	4021F	ASR Well No. 6	\$0	\$0	\$0	\$0	\$3,500,000	\$3,500,000
501	3620	4021G	South Cooper Mt. - Non-potable (purple pipe) Water System	\$150,000	\$0	\$0	\$0		\$150,000
501	3620	4128	TVWD Cooperative Water Projects	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
501	3620	4129	West Slope Water District Cooperative Water Projects	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
501	3620	4126	Willamette Water Supply Program (WWSP)	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$10,000,000
			Total =	\$7,935,494	\$6,516,360	\$10,662,103	\$7,620,618	\$6,860,000	\$39,594,575

Projects shown are non-priority ranked

THIS PAGE LEFT INTENTIONALLY BLANK





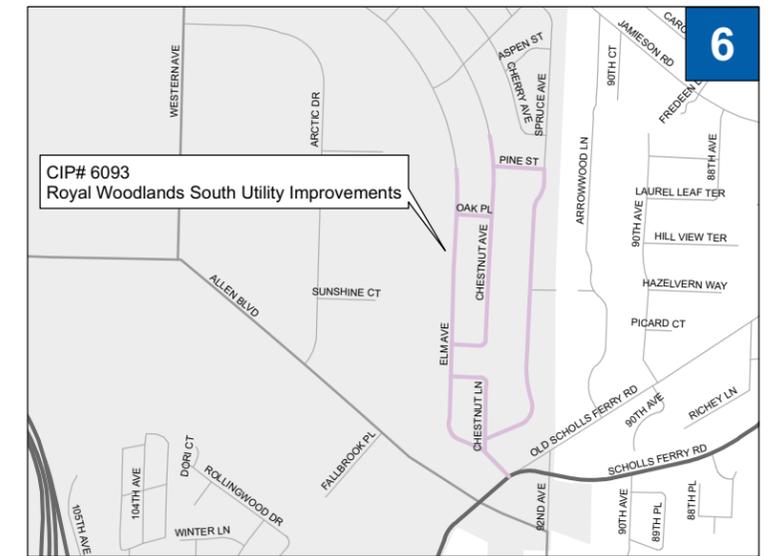
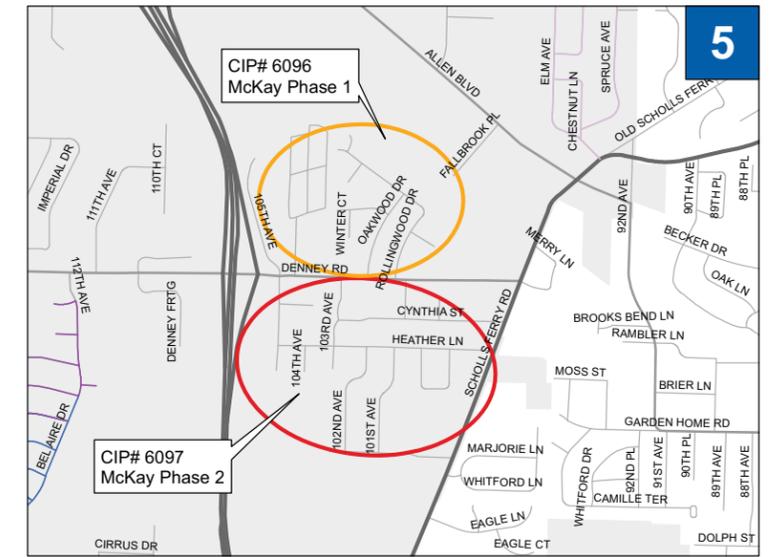
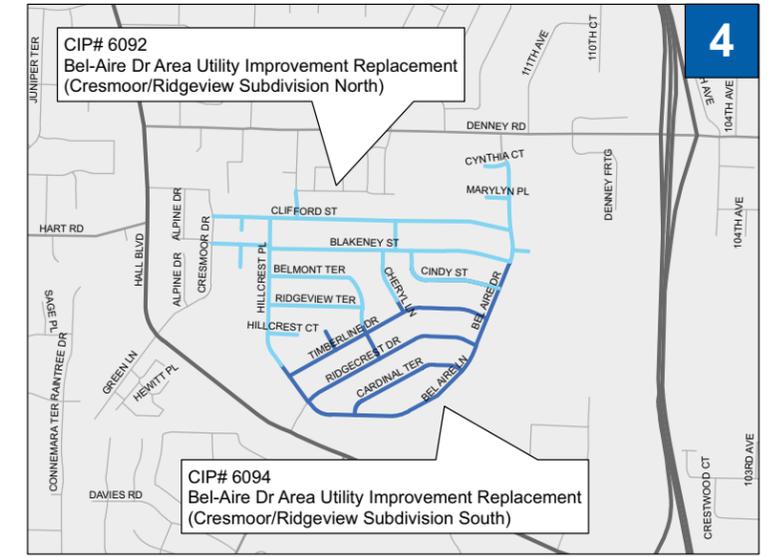
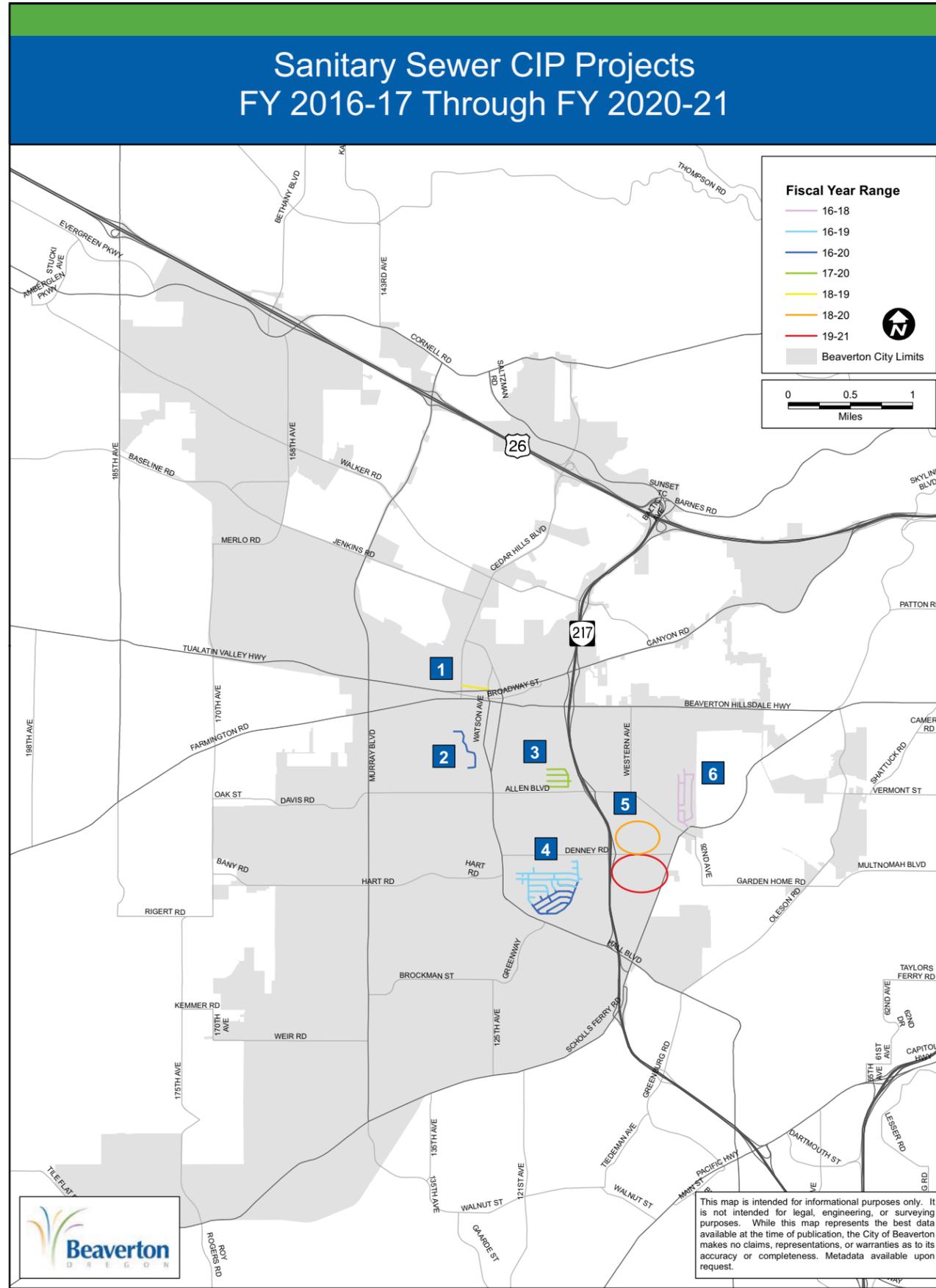
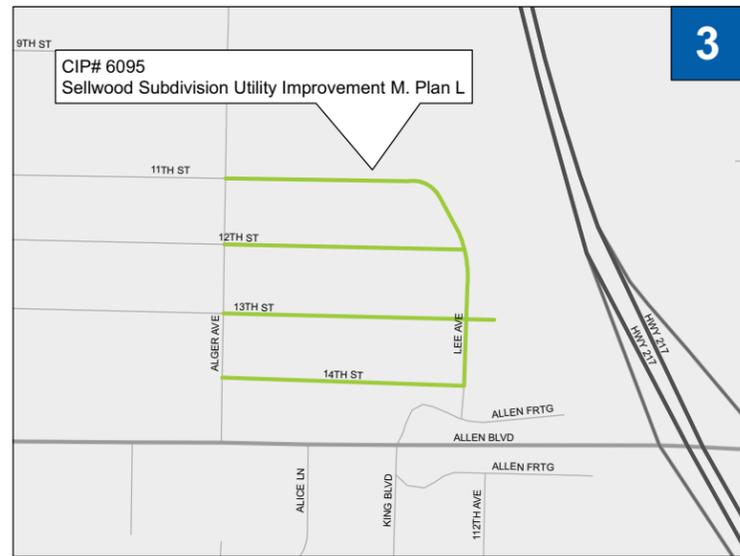
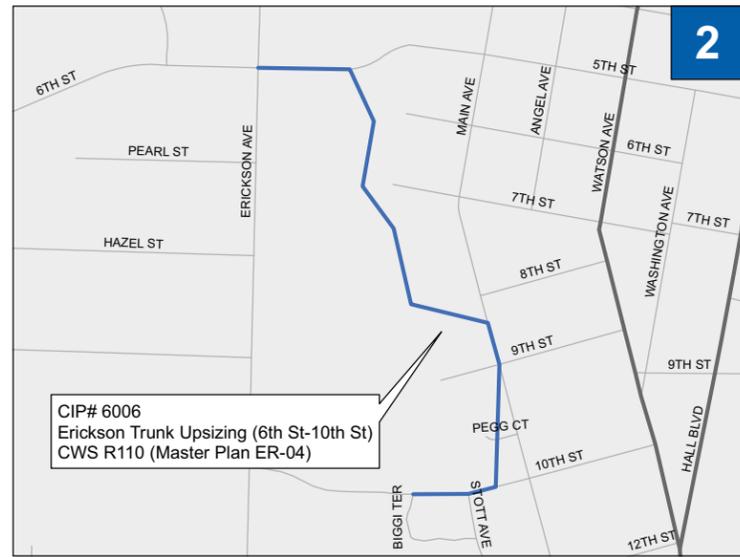
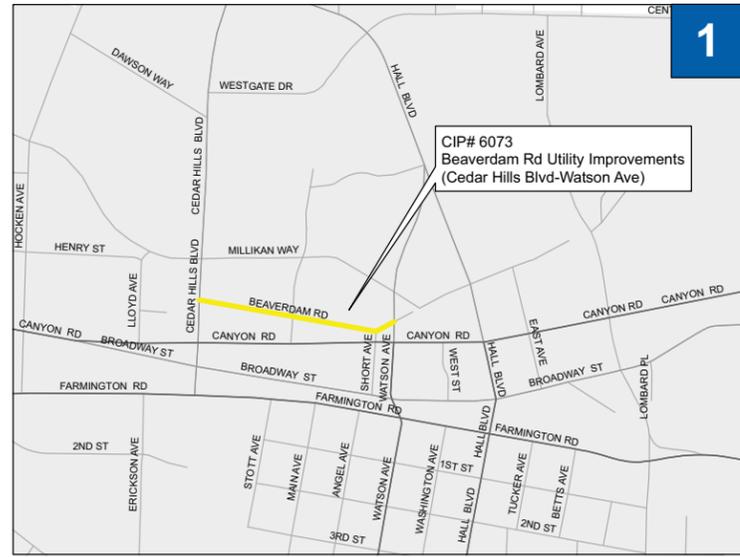


Sanitary Sewer System Improvement Projects
FY 2016-2020

SANITARY SEWER - FY 2016-17 THROUGH FY 2019-20

CIP #	PROJECT NAME	2016-17		2017-18		2018-19		2019-20	
		TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE	TOTAL	PHASE
6006	Erickson Trunk Upsizing (6th St - 10th St), CWS R110 (Master Plan ER-04)	\$200,000	E	\$1,776,000	C				
TBD	Murmering Pines Subd (Master Plan P)								
6093	Royal Woodlands South Utility Improvements	\$1,250,000	C						
6092	Belaire Subdivision Utility Impr Phase 2 M. Plan O	\$275,000	E	\$1,500,000	C				
6094	Belaire Subdivision Utility Impr Phase 3 M. Plan N	\$100,000	P	\$275,000	E	\$1,500,000	C		
6095	Sellwood Subdivision Utility Impr M. Plan L			\$150,000	P	\$400,000	E	\$1,400,000	C
6073	Beaverdam Rd Utility Improvements (Cedar Hills Blvd-Watson Ave)					\$30,000	P		
6096	McKay Phase 1					\$100,000	E	\$850,000	C
6097	McKay Phase 2							\$100,000	E
TBD	McKay Phase 3								
TBD	Cherry Hill Phase 1								
	PHASE								
P	Planning								
E	Preliminary Engineering								
ROW	Right of Way								
C	Construction								

THIS PAGE LEFT INTENTIONALLY BLANK



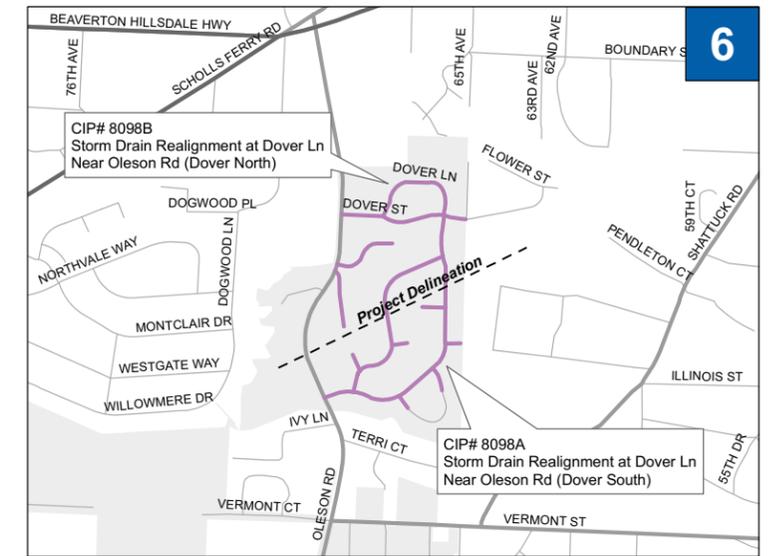
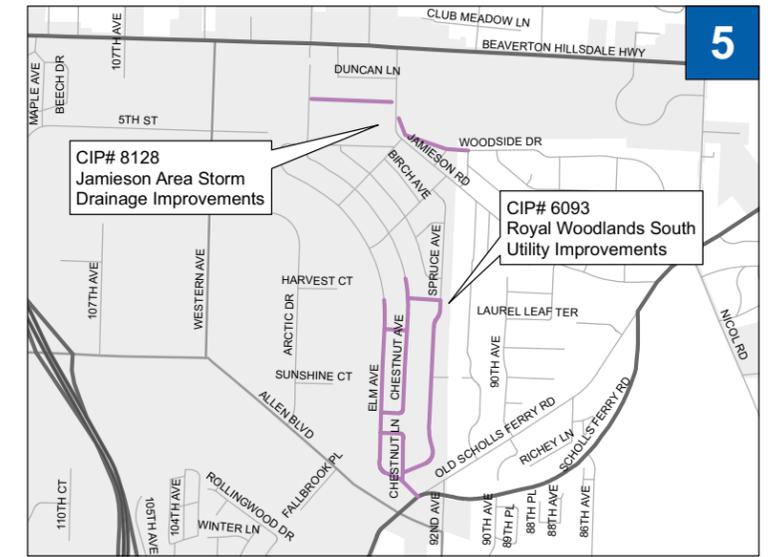
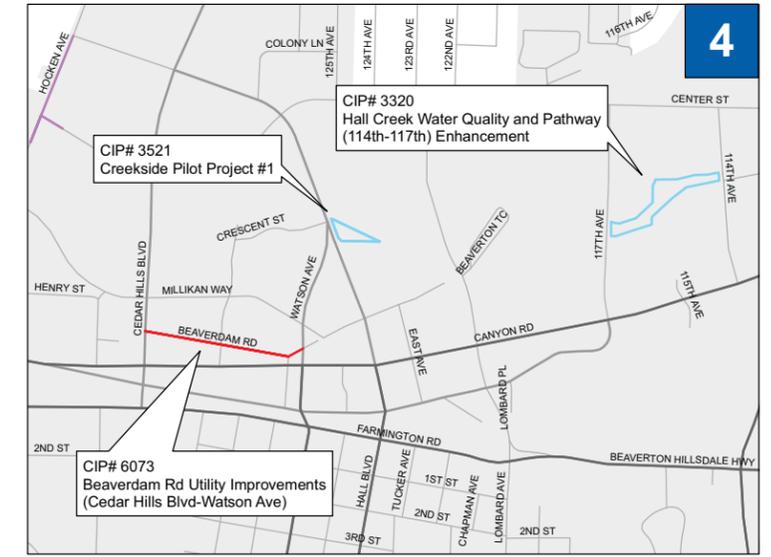
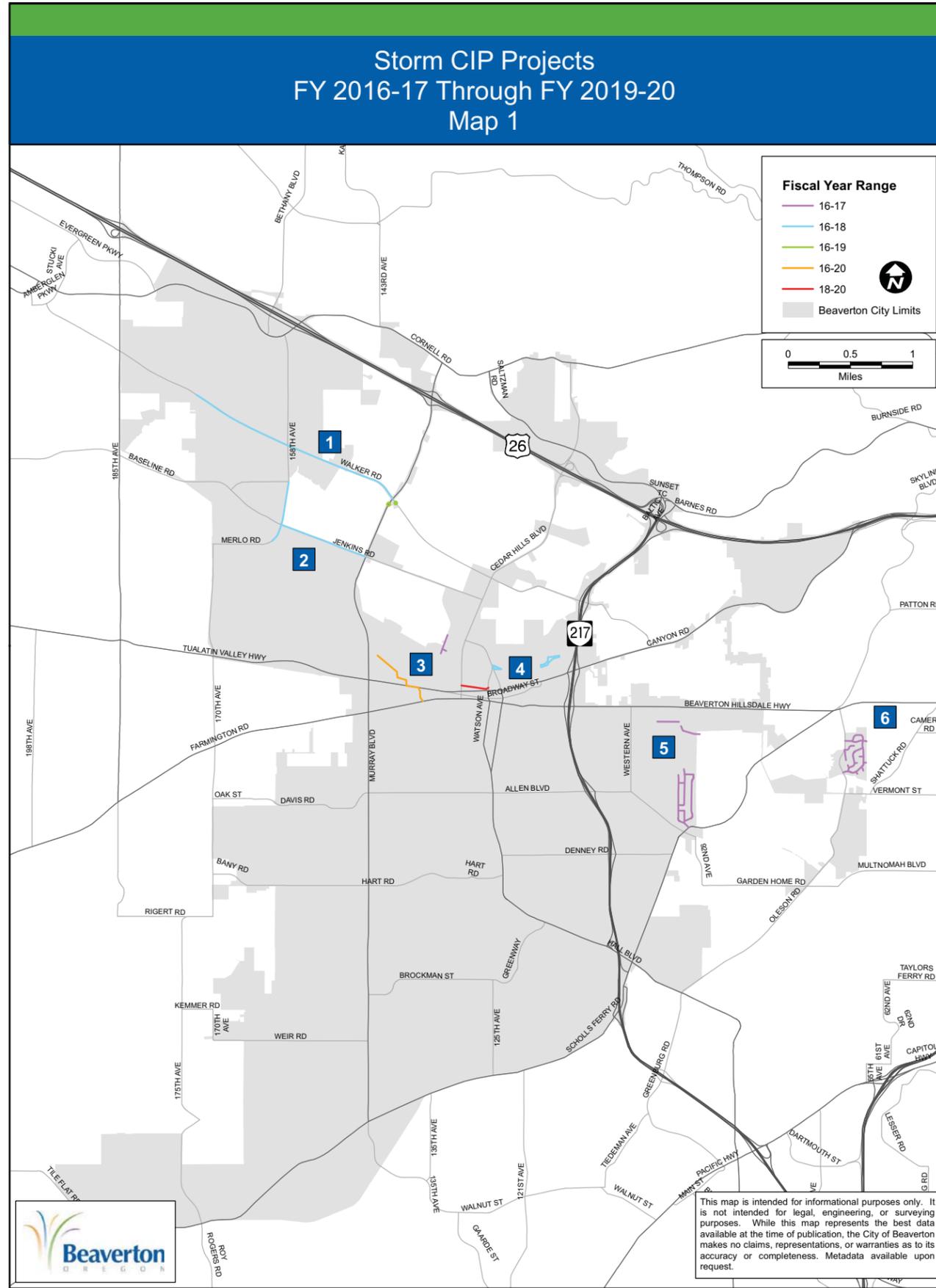
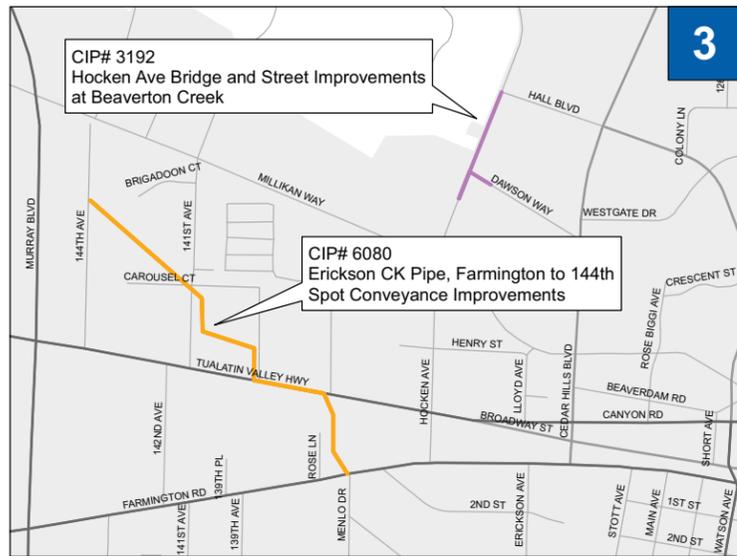
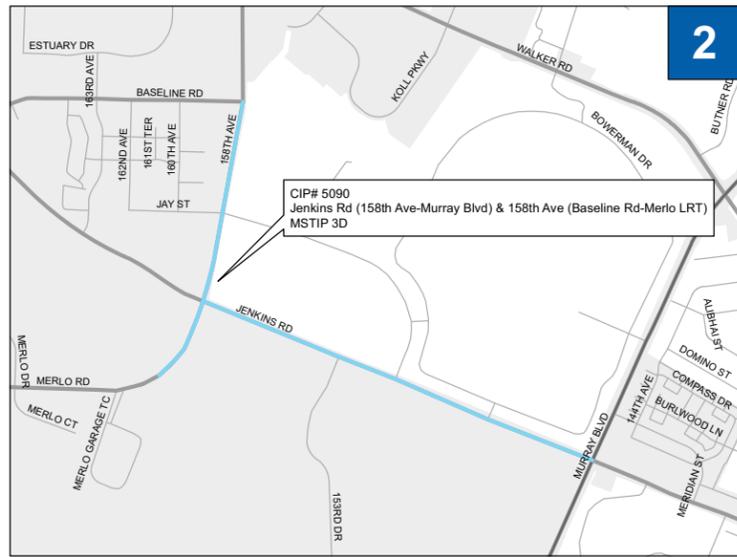
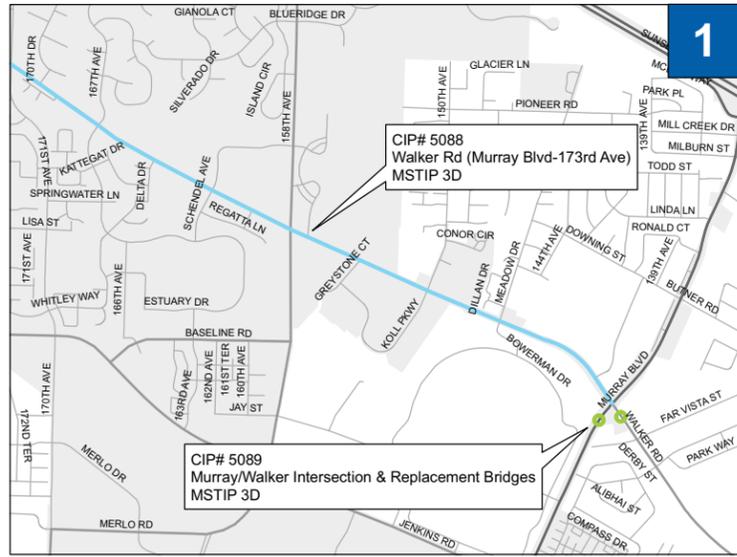
Storm Drainage System Improvement Projects
FY 2016-2020

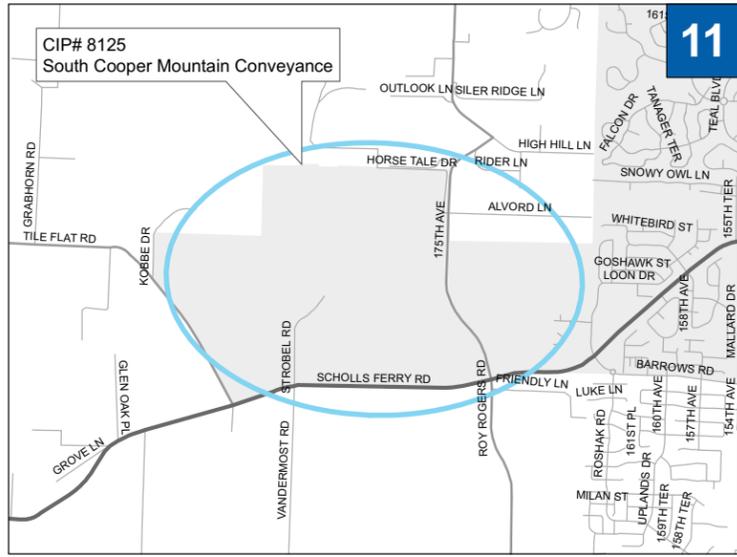
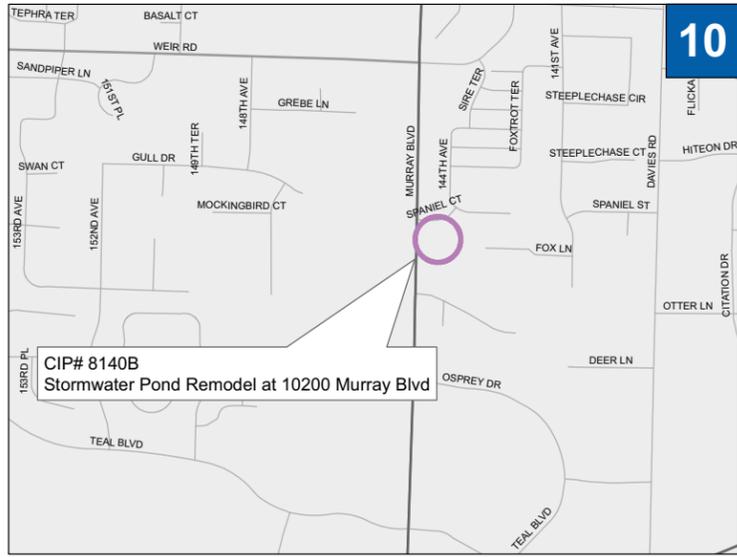
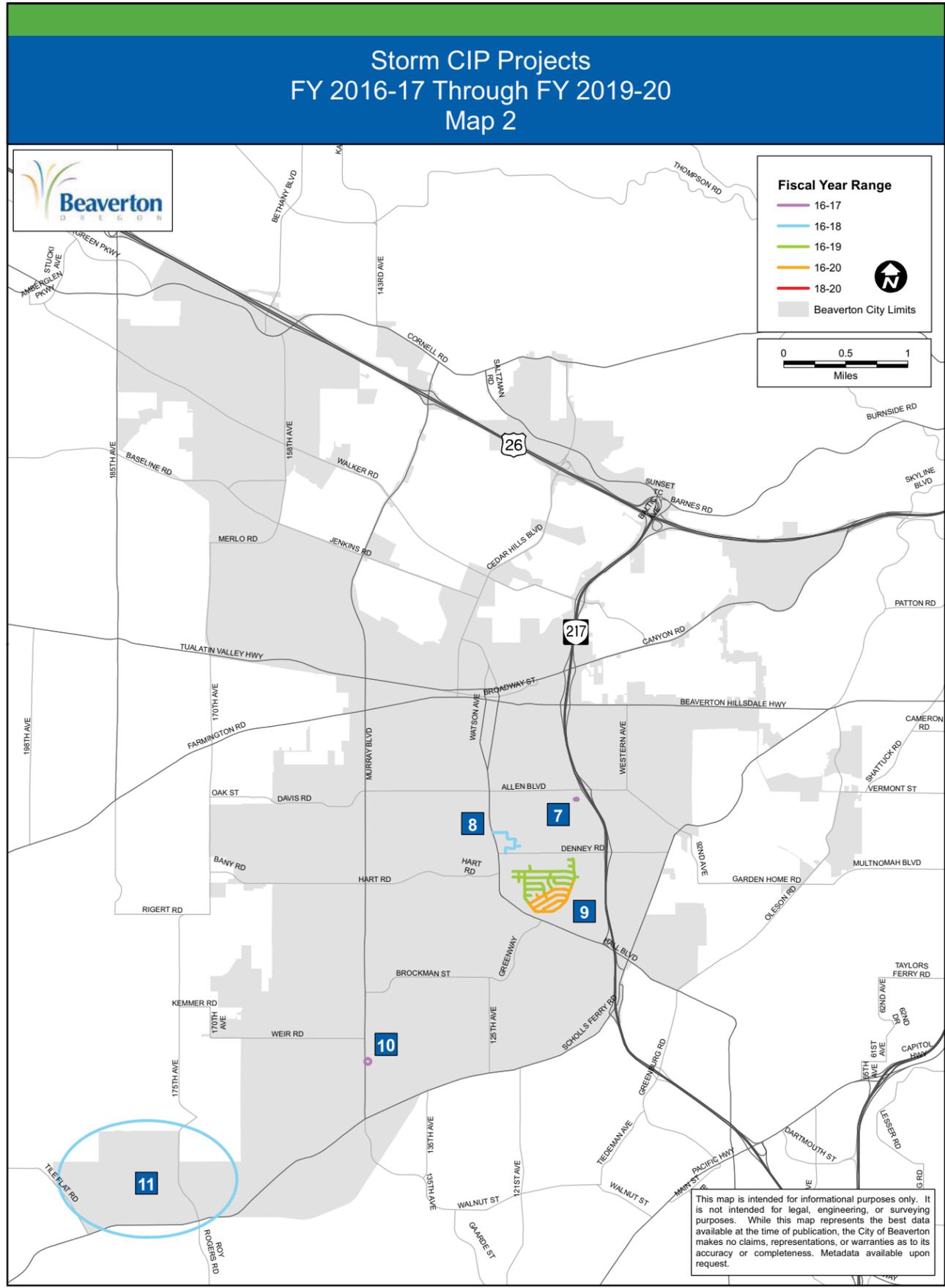
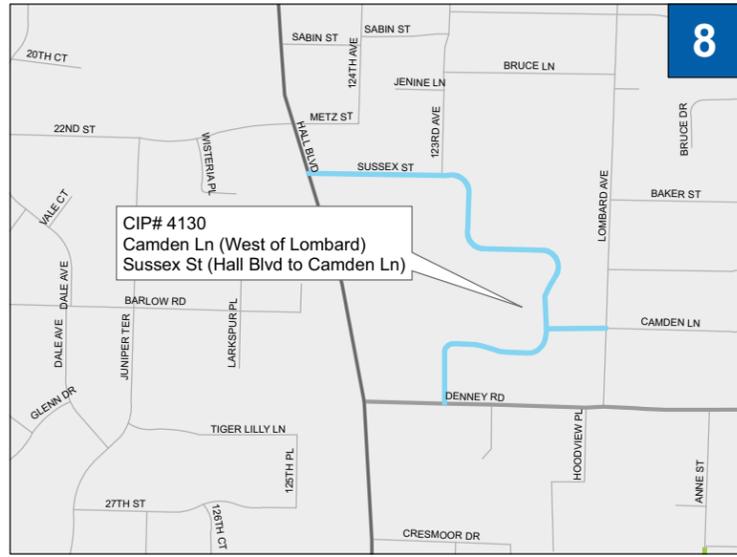
STORM DRAINAGE - FY2016-17 THROUGH FY 2019-20

02-Jun-15

			FY 16/17		FY 17/18		FY 18/19		FY 19/20	
			Subtotal	Phase	Subtotal	Phase	Subtotal	Phase	Subtotal	Phase
San Sewer Project Related Storm		Fund								
6080	Erickson CK Pipe, Farmington to 144th, Spot Conveyance Improvements Reference Adjacent Erickson SS Trunk Schedule	3915 xx	5,000	P	50,000	E ROW	200,000	C	200,000	C
6093	South Royal Woodlands/Pine Hills Subdivision San Sewer Utility Replacement	3950	55,000	C	0		0		0	
6092	Bel-Aire Drive area San Sewer Utility Replacement (Cresmoor/Ridgeview Subdivision North, Plan 'O')	3950	40,000	PE	55,000	C	45,000	C	0	
6094	Bel-Aire Drive area San Sewer Utility Replacement (Cresmoor/Ridgeview Subdivision South, Plan 'N')	3950	1,000	P	10,000	E	65,000	C	65,000	C
6095	Sellwood Subdivision San Sewer Utility Replacement	3950	0		0		0		0	
6073	Beaverdam Rd San Sewer Utility Replacement (Btw CHB and Watson)	3950	0		0		1,000	P	1,000	P
			0		0		0		0	
Potable Water Related Storm		Fund								
4118	Settler Way Waterline; and Beavertn Dam Rd Water replacement	3950	0		0		0		0	
6095	11th Street - Lee to Alger (1,150 lf 6" water)	3950	0		0		0		0	
4130	Sussex Street - Hall to Camden	3950	1,000	P	17,000	E & C	0		0	
TBD	TBD Street in FY 18/19 - XYZ to ZYX	3950	0		1,000	P	17,000	E & C	0	
TBD	TBD Street in FY 19/20 - XYZ to ZYX	3950	0		1,000	P	1,000	P	17,000	E & C
			0		0		0		0	
South Cooper Mountain Related Storm		Fund								
8125	S. Cooper Mountain Stormwater Conveyance	3915	220,000	E & C	220,000	E & C	0		0	
			0		0		0		0	
Storm Drain Project Lead		Fund								
8098	Dover Land North and South Storm Drain Replacement	3950	25,000	M	0		0		0	
8104B	Stormwater pond remodel at 10200 Murray Blvd Storm Filter	3917	10,000	M	0		0		0	
8119	141st Ave (Millikan Way to Vernier Driveway) Conveyance Pipe	3915	0		0		0		0	
8122	Major CIPP storm pipe rehab project	3950	1,025,000	C	0		0		0	
8128	Jamieson SWM Project	3915	10,000	M	0		0		0	
8126	11092 SW Allen Blvd, Repl failing RCB with 36in dia; add primary treatment vault	3950	105,000	E & C	0		0		0	
			0		0		0		0	
Transportation Project Lead		Fund								
3192	Hocken Ave Bridge and Street Imp at Beaverton Creek	3915	20,000	C&M	5,000	M	0		0	
5088	Walker Road, Murray to 173rd (WaCo MSTIP)	3950	5,000	E & C	5,000	E & C	0		0	
5089	Murray/Walker Intersection and replacement bridges (WaCo MSTIP) Coordination	3950	5,000	C	5,000	C	5,000	M	0	
5089A	Pre-treat Retrofit: Walker/Murray at Cedar Mill Ck (Beaverton's Share in a WaCo MSTIP Bridge Replace Prj)	3917	10,000	E	85,000	C	5,000	M	0	
5090	158th & Jenkins Road (WaCo MSTIP) Coordination	3950	5,000	E & C	5,000	E & C	0		0	
5090A	Pre-treat Retrofit: Jenkins at Cedar Mill Ck (Beaverton's Share in a WaCo MSTIP Bridge Replacement Prj)	3917	0		0		0		0	
			0		0		0		0	
Storm Annual Program Activity		Fund								
xxxx	Small Works Projects, Eng Svcs, In-House OH Charges, & Misc	3915	50,000	E & C	50,000	E & C	50,000	E & C	50,000	E & C
xxxx	Small Works Projects, Eng Svcs, In-House OH Charges, & Misc	3916	10,000	E & C	10,000	E & C	10,000	E & C	10,000	E & C
xxxx	Small Works Projects, Eng Svcs, In-House OH Charges, & Misc	3917	10,000	E & C	10,000	E & C	10,000	E & C	10,000	E & C
xxxx	Small Works Projects, Eng Svcs, In-House OH Charges, & Misc	3950	80,000	E & C	80,000	E & C	80,000	E & C	80,000	E & C
8023	Strategic drainage (buffer) easement/property acquisition	3915	5,000	P	5,000	P	5,000	P	5,000	P
8023	Strategic drainage (buffer) easement/property acquisition	3950	10,000	P	10,000	P	10,000	P	10,000	P
8123	Existing Stormwater Pond capacity expansion - TBD	3916	30,000	E & C	30,000	E & C	30,000	E & C	30,000	E & C
TBD	Underground Det Facility Repair/Retrofit at: _____	3916	10,000	E	70,000	E & C	70,000	E & C	70,000	E & C
8085	Priority Catch Basin Repl (Sags) w/ less clogging Design	3950	35,000	E & C	35,000	E & C	35,000	E & C	35,000	E & C
8102	Storm Conduit and CB Repair on overlay Streets	3950	75,000	E & C	75,000	E & C	75,000	E & C	75,000	E & C
8114	Creek Debris Screen Replacements	3950	0	P	45,000	E & C	0	P	0	P
8123	Stormwater Pond Major Maint/Rehab, or Veg Estab at: ___ and ___	3950	45,000	E & C	45,000	E & C	45,000	E & C	45,000	E & C
8124	Stormwater Outfall Pipe major repairs, 1. _____, 2. _____	3950	85,000	E & C	85,000	E & C	0		0	
			0		0		0		0	
Civic Project Related		Fund								
3320	Hall Creek Enhancement - 114th to 117th	3950	5,000	M	5,000	M	0		0	
3521	Creekside Pilot Project (Francis Triangle)	3950	25,000	C & M	5,000	M	0	M	0	M
TBD	Project #2: Support of Creekside District Master Planning	3950	10,000	P	850,000	E & C	310,000	C	310,000	C
TBD	Project #3: Support of Creekside District Master Planning	3950	0		0		10,000	P	850,000	E & C
			0		0		0		0	
			2,027,000		1,869,000		1,079,000		1,863,000	

THIS PAGE LEFT INTENTIONALLY BLANK





This map is intended for informational purposes only. It is not intended for legal, engineering, or surveying purposes. While this map represents the best data available at the time of publication, the City of Beaverton makes no claims, representations, or warranties as to its accuracy or completeness. Metadata available upon request.

**CITY OF BEAVERTON
CAPITAL IMPROVEMENTS PLAN (CIP)
FOR FY 2015-16 THROUGH FY 2019-20**



LITTLE PEOPLE'S PARK PONDS

PROJECT OVERVIEW MAPS

- MAP 1** **FY 2015-16 CIP PROJECTS**
- MAP 2** **FY 2016-17 CIP PROJECTS**
- MAP 3** **SANITARY SEWER PROJECTS COMPLETED SINCE 2006**