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# Wastewater and Transportation System Development Charge Update

Final Report

Prepared for:



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## City of Molalla 2019 Wastewater and Transportation SDC Methodology Update

## **Table of Contents**

Introduction/History of the Project1
Analytical Process for the Methodology Updates2
SDC Legal Authorization and Background4
Reimbursement Fee Methodology4
Improvement Fee Methodology5
Methodology for the Granting of Credits, Discounts, and Exemptions
SDC Credits Policy8
SDC Discount Policy9
Partial and Full SDC Exemption9
Wastewater SDCs9
Wastewater Capital Improvement Plan9
Wastewater Customers Current and Future Demographics15
Existing Wastewater Demand and Population Growth15
Forecasted EDUs15
Forecasted EDUs
Forecasted EDUs
Forecasted EDUs
Forecasted EDUs
Forecasted EDUs15Reimbursement Fee Calculations16Improvement Fee Calculations18Wastewater SDC Model Summary20Transportation SDCs22Transportation Capital Improvement Plan22
Forecasted EDUs15Reimbursement Fee Calculations16Improvement Fee Calculations18Wastewater SDC Model Summary20Transportation SDCs22Transportation Capital Improvement Plan22Transportation System Current and Future Demand37
Forecasted EDUs15Reimbursement Fee Calculations16Improvement Fee Calculations18Wastewater SDC Model Summary20Transportation SDCs22Transportation Capital Improvement Plan22Transportation System Current and Future Demand37Existing Transportation Demand37
Forecasted EDUs15Reimbursement Fee Calculations16Improvement Fee Calculations18Wastewater SDC Model Summary20Transportation SDCs22Transportation Capital Improvement Plan22Transportation System Current and Future Demand37Existing Transportation Demand37Forecasted EDUs37
Forecasted EDUs15Reimbursement Fee Calculations16Improvement Fee Calculations18Wastewater SDC Model Summary20Transportation SDCs22Transportation Capital Improvement Plan22Transportation System Current and Future Demand37Existing Transportation Demand37Forecasted EDUs37Reimbursement Fee Calculations40
Forecasted EDUs15Reimbursement Fee Calculations16Improvement Fee Calculations18Wastewater SDC Model Summary20Transportation SDCs22Transportation Capital Improvement Plan22Transportation System Current and Future Demand37Existing Transportation Demand37Forecasted EDUs37Reimbursement Fee Calculations40Improvement Fee Calculations42
Forecasted EDUs15Reimbursement Fee Calculations16Improvement Fee Calculations18Wastewater SDC Model Summary20Transportation SDCs22Transportation Capital Improvement Plan22Transportation System Current and Future Demand37Existing Transportation Demand37Forecasted EDUs37Reimbursement Fee Calculations40Improvement Fee Calculations42Transportation SDC Model Summary44

### Introduction/History of the Project

The City of Molalla conducts periodic updates to its Comprehensive Plan and its various Public Facility Plans to provide orderly and sustainable growth of municipal infrastructure. A key component to funding these public facilities is the system development charge (SDC) program. SDCs are one-time charges for new development—designed to recover the costs of infrastructure capacity needed to serve new development. This section describes the policy context and project scope upon which the body of this report is based. It concludes with a numeric overview of the calculations presented in subsequent sections of this report for wastewater and transportation SDCs.

The city's current schedule of SDCs were last reviewed in the Fall of 2016. Since that time, the City has completed new master plans for wastewater and transportation. In January of 2019, the City hired Donovan Enterprises, Inc. to review and update the wastewater and transportation SDC methodologies. With this review and update, the City has stated a number of objectives:

- Review the basis for charges to ensure a consistent methodology;
- Address specific policy, administrative, and technical issues which had arisen from application of the existing SDCs;
- Determine the most appropriate and defensible fees, ensuring that development is paying its way;
- Consider possible revisions to the structure or basis of the charges which might improve equity or proportionality to demand;
- Provide clear, orderly documentation of the assumptions, methodology, and results, so that City staff could, by reference, respond to questions or concerns from the public.

This report provides the documentation of that effort, and was done in close coordination with City staff and available facilities planning documents. The SDC updates comply with Molalla Municipal Code chapter 13.14.

Table 1 gives a component breakdown for the current and proposed residential equivalent SDCs for wastewater and transportation services.

Line Item Description	Service Unit	Proposed	Current	[	Difference
Wastewater:	per 3/4" water meter				
Reimbursement fee		\$ 198	\$ 198	\$	-
Improvement fee		10,623	4,678		5,945
Administration fee @ 2%		216	98		118
Total		\$ 11,037	\$ 4,974		\$ 6,063
Transportation:	per PM peak hour trip				
Reimbursement fee		\$ 769	\$ 769	\$	-
Improvement fee		11,932	3,276		8,656
Administration fee @ 2%		254	81		173
Total		\$ 12,955	\$ 4,126		\$ 8,829

Table 1 - Component Breakdown of the Proposed Residential Equivalent SDCs

### Analytical Process for the Methodology Updates

The essential ingredient in the development of an SDC methodology is valid sources of data. For this project, the consultant team has relied on a number of data sources. The primary sources have been the newly formulated and adopted capital improvement plans for wastewater and transportation. We have supplemented these data sources with City utility billing records, certified census data, and other documents that we deemed helpful, accurate, and relevant to this study. Table 2 contains a bibliography of the key documents/sources that we relied upon to facilitate our analysis and hence the resulting SDCs.

#### Table 2 - Data Sources for the Calculation of SDCs

Service	Master Plan Document and/or Corroborating Source Documentation
Wastewater	• City of Molalla wastewater system twenty-year capital improvement plan, November, 2018; City of Molalla Public Works Department
	• City of Molalla Comprehensive Annual Financial Report for the Fiscal Year Ended June 30, 2018
	2018 Discharge Monitoring Reports; City of Molalla
	Molalla wastewater system fixed asset schedule; June 30, 2018; City records
	• City of Molalla Utility Billing System – wastewater system active accounts and Equivalent Dwelling Units in service report; December, 2018
	• Portland State University, College of Urban Affairs, Population Research Center; Certified census for Molalla, Oregon; June, 2018
Transportation	• City of Molalla transportation system twenty-year capital improvement plan, September, 2018; City of Molalla Public Works Department
	• City of Molalla transportation system fixed asset schedule; June 30, 2018; City records
	<ul> <li>U.S. Bureau of the Census; American Community Survey:</li> <li>✓ City of Molalla dwelling units; 2018 estimated</li> <li>✓ City of Molalla number of employees; 2018 estimated</li> </ul>
	• Trip Generation Manual; Institute of Transportation Engineers; 9 <sup>th</sup> Edition
	• City of Molalla Transportation System Plan; adopter by Ordinance 2018-14; September 26, 2018

The data sources shown in Table 2 were used to formulate the two (2) components of the SDCs. These components are the reimbursement and improvement fees. The City has been constructing the SDCs with these two components for over twenty years, and our analysis does not propose to change that methodology. A brief definition of the two components are:

- The reimbursement fee considers the cost of existing facilities, prior contributions by existing users of those facilities, the value of the unused/available capacity, and generally accepted ratemaking principles. The objective is future system users contribute no more than an equitable share to the cost of existing facilities. The reimbursement fee can be spent on capital costs or debt service related to the systems for which the SDC is applied.
- The improvement fee portion of the SDC is based on the cost of planned future facilities that expand the system's capacity to accommodate growth or increase its level of performance. In developing an analysis of the improvement portion of the fee, each project in the respective service's capital improvement plan is evaluated to exclude costs related to correcting existing system deficiencies or upgrading for historical lack of capacity. An example is a facility which improves system capacity to better serve current customers. The costs for this type of project must be eliminated from the improvement fee calculation. Only capacity increasing/level of performance costs provide the basis for the SDC calculation. The improvement SDC is calculated as a function of the estimated number of additional equivalent residential units to be served by the City's facilities over the planning period. Such a fee represents the greatest potential for future

SDC changes. The improvement fee must also provide a credit for construction of a qualified public improvement.

### SDC Legal Authorization and Background

SDCs are authorized by Oregon Revised Statute (ORS) 223.297-314. The statute is specific in its definition of system development charges, their application, and their accounting. In general, an SDC is a one-time fee imposed on new development or expansion of existing development, and assessed at the time of development approval or increased usage of the system. Overall, the statute is intended to promote equity between new and existing customers by recovering a proportionate share of the cost of existing and planned/future capital facilities that serve the developing property. Statute further provides the framework for the development and imposition of SDCs and establishes that SDC receipts may only be used for capital improvements and/or related debt service.

Finally, two cost basis adjustments are potentially applicable to both reimbursement and improvement fees: fund balance and compliance costs. In this study, the project team as paid attention to this detail to align future infrastructure costs to those responsible for paying those costs. The reasons for this attention is as follows:

- *Fund Balances* To the extent that SDC revenue is currently available in fund balance, that revenue should be deducted from its corresponding cost basis. For example, if the city has wastewater improvement fees that it has collected but not spent, then those unspent improvement fees should be deducted from the wastewater system's improvement fee cost basis to prevent charging twice for the same capacity.
- Compliance Costs ORS 223.307(5) authorizes the expenditure of SDCs on "the costs of complying with the provisions of ORS 223.297 to 223.314, including the costs of developing system development charge methodologies and providing an annual accounting of system development charge expenditures." To avoid spending monies for compliance that might otherwise have been spent on growth-related projects, this report includes an estimate of compliance costs in its SDCs.

### **Reimbursement Fee Methodology**

The reimbursement fee represents a buy-in to the cost, or value, of infrastructure capacity within the existing system. Generally, if a system were adequately sized for future growth, the reimbursement fee might be the only charge imposed, since the new customer would be buying existing capacity. However, staged system expansion is needed, and an improvement fee is imposed to allocate those growth related costs. Even in those cases, the new customer also relies on capacity within the existing system, and a reimbursement component is warranted.

In order to determine an equitable reimbursement fee to be used in conjunction with an improvement fee, two points should be highlighted. First, the cost of the system to the City's customers may be far less than the total plant-in-service value. This is due to the fact that elements of the existing system may have been contributed, whether from developers, governmental grants, and other sources. Therefore, the net investment by the customer/owners is less. Second, the value of the existing system to a new customer is less than the value to an existing customer, since the new customer must also pay, through an improvement fee, for expansion of some portions of the system.

The method used for determining the reimbursement fee accounts for both of these points. First, the charge is based on the net investment in the system, rather than the gross cost. Therefore, donated

facilities, typically including local facilities, and grant-funded facilities, would be excluded from the cost basis. Also, the charge should be based on investments clearly made by the current users of the system, and not already supported by new customers. Tax supported activities fail this test since funding sources have historically been from general revenues, or from revenues which emanate, at least in part, from the properties now developing. Second, the cost basis is allocated between used and unused capacity, and, capacity available to serve growth. In the absence of a detailed asset by asset analysis, it is appropriate to allocate the cost of existing facilities between used and available capacity proportionally based on the forecasted population growth as converted to equivalent dwelling units over the planning period. This approach reflects the philosophy, consistent with the City's Updated Master Plans, that facilities have been sized to meet the demands of the customer base within the established planning period.

### Improvement Fee Methodology

There are three basic approaches used to develop improvement fee SDCs: "standards driven", "improvements-driven", and "combination/hybrid" approaches. The "standards-driven" approach is based on the application of Level of Service (LOS) standards for facilities. Facility needs are determined by applying the LOS standards to projected future demand, as applicable. SDC-eligible amounts are calculated based on the costs of facilities needed to serve growth. This approach works best where level of service standards have been adopted but no specific list of projects is available. The "improvementsdriven" approach is based on a specific list of planned capacity increasing capital improvements. The portion of each project that is attributable to growth is determined, and the SDC-eligible costs are calculated by dividing the total costs of growth-required projects by the projected increase in projected future demand, as applicable. This approach works best where a detailed master plan or project list is available and the benefits of projects can be readily apportioned between growth and current users. Finally, the combination/hybrid-approach includes elements of both the "improvements driven" and "standards-driven" approaches. Level of Service standards may be used to create a list of planned capacity-increasing projects, and the growth required portions of projects are then used as the basis for determining SDC eligible costs. This approach works best where levels of service have been identified and the benefits of individual projects are not easily apportioned between growth and current users.

In the past, the City has utilized the "improvements-driven" approach for the calculation of SDCs. This study continues to use this method, and has relied on the capital improvement plans that are incorporated in the master plans, and plan updates for the wastewater and transportation systems.

For this SDC methodology update, the improvement fee represents a proportionate share of the cost to expand the systems to accommodate growth. This charge is based on the newly adopted capital improvement plans established by the City for wastewater and transportation services. The costs that can be applied to the improvement fees are those that can reasonably be allocable to growth. Statute requires that the capital improvements used as a basis for the charge be part of an adopted capital improvement schedule, whether as part of a system plan or independently developed, and that the improvements included for SDC eligibility be capacity or level of service expanding. The improvement fee is intended to protect existing customers from the cost burden and impact of expanding a system that is already adequate for their own needs in the absence of growth.

The key step in determining the improvement fee is identifying capital improvement projects that expand the system and the share of those projects attributable to growth. Some projects may be entirely attributable to growth, such as a wastewater collection line that exclusively serves a newly developing area. Other projects, however, are of mixed purpose, in that they may expand capacity, but they also improve service or correct a deficiency for existing customers. An example might be an intersection signalization project both expands the pm peak hour vehicle trip throughput capacity and corrects a chronic capacity issue for existing users. In this case, a rational allocation basis must be defined.

The improvement portion of the SDC is based on the proportional approach toward capacity and cost allocation in that only those facilities (or portions of facilities) that either expand the respective system's capacity to accommodate growth or increase its respective level of performance have been included in the cost basis of the fee. As part of this SDC update, City Staff and their engineering consultants were asked to review the planned capital improvement lists in order to assess SDC eligibility. The criteria in Figure 1 were developed to guide the City's evaluation:

#### City of Molalla

#### Steps Toward Evaluating

#### **Capital Improvement Lists for SDC Eligibility**

#### <u>ORS 223</u>

- 1. Capital improvements mean the facilities or assets used for :
  - a. Wastewater collection, transmission, treatment, and disposal
  - b. Transportation intersection improvements, street reconstruction and widening, roadway enhancement, and bike/ped expansion

This definition DOES NOT ALLOW costs for operation or routine maintenance of the improvements;

- 2. The SDC improvement base shall consider the cost of projected capital improvements needed to increase the capacity of the systems to which the fee is related;
- 3. An increase in system capacity is established if a capital improvement increases the "level of performance or service" provided by existing facilities or provides new facilities.

#### Under the City' approach, the following rules will be followed

- 1. Repair costs are not to be included;
- 2. Replacement costs will not be included unless the replacement includes an upsizing of system capacity and/or the level of performance of the facility is increased;
- 3. New regulatory compliance facility requirements fall under the level of performance definition and should be proportionately included;
- 4. Costs will not be included which bring deficient systems up to established design levels.

In developing the improvement fee, the project team in consultation with City staff evaluated each of its CIP projects to exclude costs related to correcting existing system deficiencies or upgrading for historical lack of capacity. Only capacity increasing/level of performance costs were used as the basis for the SDC calculation, as reflected in the capital improvement schedules developed by the City. The improvement fee is calculated as a function of the estimated number of projected additional Equivalent Residential Units (expressed in ¾" water meter equivalents) for wastewater over the planning horizon. We measure demand for transportation facilities in PM peak-hour vehicle trips (PM PHVTs). One PM PHVT represents one person beginning or ending a vehicular trip at a certain property during the afternoon rush hour. Once the future costs to serve growth have been segregated (i.e., the numerator), they can be divided into the total number of new EDUs (and PM PHVT's) that will use the capacity derived from those investments (i.e., the denominator).

### Methodology for the Granting of Credits, Discounts, and Exemptions

### **SDC Credits Policy**

ORS 223.304 requires that credit be allowed for the construction of a "qualified public improvement" which is required as a condition of development approval, is identified in the Capital Improvement Plan, and either is not located on or contiguous to property that is the subject of development approval, or is located on or contiguous to such property and is required to be built larger or with greater capacity than is necessary for the particular development project. The credit for a qualified public improvement may only be applied against an SDC for the same type of improvement, and may be granted only for the cost of that portion of an improvement which exceeds the minimum standard facility size or capacity needed to serve the particular project. For multi-phase projects, any excess credit may be applied against SDCs that accrue in subsequent phases of the original development project. In addition to these required credits, the City may, if it so chooses, provide a greater credit, establish a system providing for the transferability of credits, provide a credit for a capital improvement not identified in the Capital Improvement Plan, or provide a share of the cost of an improvement by other means.

The City has adopted a policy for granting SDC credits, and has codified this policy in the Molalla Municipal Code (MMC) §13.14.110. The adopted SDC credit policy consists of five (5) items as follows:

#### MMC §13.14.110

- A. A system development charge shall be imposed when a change of use of a parcel or structure occurs, but credit shall be given for the computed system development charge to the extent that prior structures existing and services were established on or after the effective date of the ordinance codified in this chapter. The credit so computed shall not exceed the calculated system development charge. No refund shall be made on account of such credit.
- B. A credit shall be given for the cost of a qualified public improvement associated with a development. For qualified public improvements which are located in whole or in part on or contiguous to property that is the subject of development approval, and are required to be built larger or with greater capacity than is necessary for the particular development to which the improvement fee is related, credit shall be granted only for the cost of that portion of such improvement that exceeds the minimum standard facility size or capacity needed to serve the particular development project or property. The applicant shall have the burden of demonstrating that a particular improvement qualifies for credit under this section. The credit provided for by this subsection shall be only for the improvement fee even if the cost of the capital improvement exceeds the applicable improvement fee.
- C. Credit shall not be transferable from one development to another except in compliance with standards adopted by the City Council.
- D. Credit shall not be transferable from one type of capital improvement to another.
- E. Credits shall be used not later than 10 years from the date the credit is given. (Ord. 1999-14 §1; Ord. 1991-6 §1)

### **SDC Discount Policy**

The City, at its sole discretion may discount the SDC rates by choosing not to charge a reimbursement fee for excess capacity, or by reducing the portion of growth-required improvements to be funded with SDCs. A discount in the SDC rates may also be applied on a pro-rata basis to any identified deficiencies, which must to be funded from sources other than improvement fee SDCs. The portion of growth-required costs to be funded with SDCs must be identified in the CIP. Because discounts reduce SDC revenues, they increase the amounts that must come from other sources, such as user fees or general fund contributions, in order to acquire the facilities identified in the Updated Master Plan(s).

#### Partial and Full SDC Exemption

The City may exempt certain types of development, from the requirement to pay SDCs. Exemptions reduce SDC revenues and, therefore, increase the amounts that must come from other sources, such as user fees and property taxes. As in the case of SDC credits, the City has articulated a policy relative to partial and full SDC exemption. This SDC exemption policy is codified in MMC §13.14.100, and is as follows:

- A. Structures and uses established and existing on or before the effective date of the ordinance codified in this chapter are exempt from a system development charge, to the extent that such structures and uses are not altered, added to, replaced, or changed in use so as to increase demands on any capital improvement for which systems development charges are imposed.
- B. Additions to single-family dwellings that do not constitute the addition of a dwelling unit, as defined by the State Uniform Building Code, are exempt from all portions of the system development charge.
- C. An alteration, addition, replacement or change in use that does not increase the parcel's or structure's use of the capital improvement facility is exempt from all portions of the system development charge.
- D. A project financed by City revenues is exempt from all portions of the system development charge. (Ord. 1999-14 §1; Ord. 1991-6 §1)

### Wastewater SDCs

### Wastewater Capital Improvement Plan

The principal sources of data for the wastewater system CIP are the 2018 capital improvement plans for wastewater treatment, pumping stations, and collection systems. City Staff have periodically updated these plans for current development conditions. With the assistance of City Staff, the project team has summarized the 2018 wastewater system CIPs for this SDC methodology update. The 2018 wastewater system CIP is shown in Table 3.

#### Table 3 - 2018 Wastewater System CIP

			2018 Wastewater	Capital Improven	nent Plan							
									SDC			
2018 CIP							Master		Funding			
Project	Project			New Priority Year	New Priority Year	New Priority Year	Plan		Eligible	SDC Share	2018 Master	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost Est.	SDC Eligible Cost
			Collection Syste	m Improvement I	Projects							
1	WWMP	Fenton Avenue	Replace/Rehabilitate existing 8-inch sewer along Fenton									
-			Avenue from TL_B_19 to TL_B_20.	2019-2023			High	850	N	0%	\$ 425,700	\$ -
2	WWMP	Patrol Street	Replace/Rehabilitate existing 8-inch sewer along Patrol St.									
_			from TL_B_2 to TL_B_27.	2019-2023			High	1100	N	0%	\$ 591,200	\$ -
3	WWMP	Lola Avenue	Replace/Rehabilitate existing 8-inch sewer along Lola									
			Avenue from TL_A_33 to TL_A_25.	2019-2023			High	1300	N	0%	\$ 676,200	Ş -
4	WWMP	Eckerd Avenue	Replace/Rehabilitate existing 8-inch sewer from TL_A_22 to	2010 2022								
			IL_A_21 along East 2nd to IL_A_16 on Eckerd Avenue.	2019-2023			High	1300	N	0%	\$ 613,200	\$ -
5	WWMP	S. Swiegle Avenue	Replace/Renabilitate existing 8-inch sewer along 5. Swiegle	2010 2022			112-6	1200		00/	¢ (27.200	¢
			from BC_A3_17 to BC_A3_7.	2019-2023			High	1300	N	0%	\$ 627,200	\$ -
			C Malalla Dump Station, continuing to manhola DC 41.2									
			and terminating at the clean-out located east of manhole									
6		Lindsey Addition to Molalla Lift Station	BC A1 3 Additional smoke testing and TVing is									
0			recommended. A portion of this sewer line extends into an									
			abandoned subdivision that presents a higher risk of									
			infiltration and inflow.	2019-2023			High	2300	N	0%	\$ 1.149.200	s -
_			Replace/Rehabilitate existing 8-inch sewer along Fenton								, , ,	
7	WWMP	Fenton Avenue	Avenue from TL B 20 to TL B 22.	2019-2023			High	600	N		\$ 298,200	\$ -
0		E Main Streat (Ilus, 211)	Replace/Rehabilitate existing 8-inch sewer along East Main									
٥	VVVVIVIP	E. Main Street (Hwy 211)	Street from TL_A_48 to TL_A_28.		2024-2028		Medium	1900	N	0%	\$ 1,028,200	\$-
			Replace/Rehabilitate existing 8-inch sewer along Berkley									
9	WWMP	Berkley Avenue	Avenue from BC_A3_18 to clean-out located south of									
			BC_A3_14 near East 5th St.		2024-2028		Medium	1350	N	0%	\$ 693,700	\$ -
			Replace/Rehabilitate existing 8-inch sewer beginning at									
10	WWMP	Metzler Avenue	manhole BC_A3_21									
10			and continuing south on Metzler to BC_A3_2, terminating at									
			clean-out at the intersection of Metzler and West 4th Street.		2024-2028		Medium	1000	N	0%	\$ 510,200	\$ -
			Replace/Rehabilitate existing 8-inch sewer beginning at									
11	WWMP	Kimberly Court	TL_B_21 and continuing east on Kimberly Ct until									
			terminating at TL_B_24.		2024-2028		Medium	600	N	0%	\$ 326,200	\$ -
			Replace/Rehabilitate existing 8-inch sewer beginning at									
			BC_A3_16 along S.									
12	1404040		Molalla Avenue, continuing south to BC_A3_3, and									
12	VV VV IVIP	S. Molalla Avenue	in Four Dark (former Ligh School site). Seens of work will									
			in Fox Park (former High School Site). Scope of work will									
			and Street			2020 2020	Low	700	N	0%	\$ 204.200	ć
			Renlace/Rehabilitate existing 8-inch sewer beginning at			2023-2038	LOW	/00		0/0		- -
			TL A2 6.									
13	WWMP	S. Cole Avenue to E. Park Avenue	continuing south on S. Cole Avenue until TL A2 4. and then									
			continuing east on East 7th Street until terminating at the									
			clean-out east of manhole TL A2 5.			2029-2038	Low	2200	N	0%	\$ 1,040,200	\$ -
			Replace/Rehabilitate existing 8-inch sewer beginning at		1							
14	WWMP	N. Cole Avenue	TL_B_2 along North Cole Avenue, and terminating at the						1			
			clean-out south of TL_B_31.			2029-2038	Low	750	N	0%	\$ 394,700	\$ -

			2018 Wastewater	r Capital Improven	nent Plan								
									SDC				
2018 CIP							Master		Funding				
Project	Project			New Priority Year	New Priority Year	New Priority Year	Plan		Eligible	SDC Share	2018 M	aster	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cos	t Est.	SDC Eligible Cost
			Collection Syste	em Improvement I	Projects		······						
15	WWMP	Garden Court	Replace/Rehabilitate existing 8-inch sewer beginning at										
			TL_B_29 along Garden Court until TL_B_4.			2029-2038	Low	500	N	0%	\$ 30	19,200	\$ -
			Replace/Rehabilitate existing 8-inch sewer beginning at										
16	WWMP	Oak Street	TL_B_8 along Oak Street, and continuing to clean-out east										
			of TL_B_12.			2029-2038	Low	800	N	0%	\$ 41	.5,200	<u>\$</u> -
			Replace/Rehabilitate existing 8-inch sewer beginning at										
17	WWMP	E. Heintz Street to E. Park Avenue	TL_B_8 on East Heintz Street to TL_B_9, continuing to										
			TL_B_10 on East Park Avenue.			2029-2038	Low	750	<u>N</u>	0%	\$ 38	1,700	<u>Ş</u> -
			Replace/Rehabilitate existing 8-inch sewer beginning at										
18	WWMP	S. Molalla Forest Road	BC_B_1 along South Molalla Forest Road to BC_B_18.										
			Includes 8" sewer line extending west to BC_B_10.			2029-2038	Low	1800	<u>N</u>	0%	\$ 78	2,200	<u>\$</u> -
19	WWMP	Meadowlawn Place	Replace/Rehabilitate existing 8-inch sewer beginning at										
	<u></u>		BC_C_71 along Meadowlawn Place to BC_C_59.			2029-2038	Low	600	<u>N</u>	0%	\$ 34	8,200	<u>\$</u> -
			Replace/Rehabilitate existing 8-inch sewer beginning at										
			TL_A1_5,										
			continuing to TL_A1_1 on East 8th Street, continuing east on	1									
20	WWMP	E. 8th Street to Mathias Court	East 8th Street until	-									
			TL_A1_6, and then terminating at the clean-out at the end of	1									
			Mathias Court. Additional										
			inspections and TVing is required in subbasin TL_A1 to										
			determine ultimate scope of repairs/replacement work.			2029-2038	Low	1150	N	0%	\$ 63	1,700	\$ -
			Replace/Rehabilitate existing 8-inch sewer beginning at										
			TL_C2_11 along Explorer Avenue, continuing to TL_C2_6										
			along Escort Street, continuing to TL_C2_5 along Bronco										
		Explorer Avenue, Escort Street, Bronco	Avenue, and continuing along Glory Ln to TL_C2_1. Scope of										
21	WWMP	Avenue, Glory Lane, and Probe Street	work shall also include replace/rehabilitate existing 8-inch										
		filende, elory zane, and riobe bacet	sewer beginning at TL_C2_15 along Probe Street terminating	3									
			at TL_C2_16. Additional inspections and TVing is required in	1									
			subbasin TL_C2 to determine ultimate scope of										
			repair/replacement work.			2029-2038	Low	2500	N	0%	\$ 1,26	57,200	\$-
			TV program for the entire collection system over a five-year										
CCTV	WWMP	Annual CCTV Program	period (20% per year) and continue to repeat the TVing at										
			five-year intervals. (\$65,000 per year)	2019-2023	2024-2028	2029-2038	Annual		N	0%	\$ 1,30	0,000	\$-
										Subtotal Hig	gh Priority	/ Costs	\$ 4,705,900
									Sub	total Mediu	m Priority	/ Costs	\$ 2,883,300
										Subtotal Lo	w Priority	/ Costs	\$ 6,614,500
									Subto	tal Program	Costs (19	Years)	\$ 14,203,700
									Subtotal	SDC Eligible	Costs (19	Years)	\$-

2018 Wastewater Capital Improvement Plan													
									SDC				
2018 CIP							Master		Funding				
Project	Project			New Priority Year	New Priority Yea	r New Priority Year	Plan		Eligible	SDC Share	2018 Mast	er	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost E	st.	SDC Eligible Cost
			Pump Statior	Improvement Pro	ojects								
22		South Molalla Rump Station	Replace existing station with a new submersible pump										
~~~			station.	2019-2023			High	N/A	N	0%	\$ 491,5	,00 5	\$ -
			Install a new submersible pump station in existing wet well										
22		Taurus Rump Station	to eliminate noise issues, increases operational efficiencies										
25			by integrating SCADA equipment, and provide pumps that										
			are capable of processing wet weather flows.		2024-2028		Medium	N/A	N	0%	\$ 269,0	100 5	\$ -
			Replace pumps and controls, upgrade SCADA integration to										
24	WWMP	Stowers Pump Station	improve operational efficiencies, inspected and										
			rehabilitation wetwell as necessary.		2024-2028		Medium	N/A	N	0%	\$ 150,0	100 5	\$ -
			Replace pumps and controls, upgrade SCADA integration to						1				
25	WWMP	Steelhead & Coho Pump Station	improve operational efficiencies, inspected and										
			rehabilitation wetwell as necessary.		2024-2028		Medium	N/A	N	0%	\$ 150,0	000	\$ -
			Replace pumps and controls, upgrade SCADA integration to										
26	WWMP	E. 5th & South Cole Pump Station	improve operational efficiencies, inspected and										
			rehabilitation wetwell as necessary.		2024-2028		Medium	N/A	N	0%	\$ 150,0	000	\$ -
										Subtotal Hig	gh Priority Co	osts 🤅	\$ 491,500
									Sub	total Mediu	m Priority Co	osts	\$ 719,000
Subtotal Low Priority Costs \$									\$ -				
Subtotal Program Costs (19 Years) \$ 1										\$ 1,210,500			
									Subtotal	SDC Eligible	Costs (19 Ye	ars) 🤅	\$-

			2018 Wastewater	Capital Improven	nent Plan							
									SDC			
2018 CIP							Master		Funding			
Project	Project			New Priority Year	New Priority Year	r New Priority Year	Plan		Eligible	SDC Share	2018 Master	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost Est.	SDC Eligible Cost
	r	1	Treatment Plan	t Improvement P	rojects	1			7	1	1	1
			Funite and a state of the sector of the sect									
27		M/M/TD Lingrado Dasign	Apply sis and Value Engineering 15% contingency									
27		WWIF Opgrade Design	Environmental Report Wetland Mitigation Land Acquisition									
			Paview Eees Permitting and Administration and Legal	2010-2023			High	N/A	v	100%	\$ 10,010,000	\$ 19,019,000
*****			Install new fine screen in parallel with the existing screen	2013-2023			mgn		<u> </u>	10070	\$ 15,015,000	3 13,013,000
28	WWMP	Influent Screen	Ungrade integration into the SCADA system to improve									
			operational efficiencies.	2019-2023			High	N/A	Y	100%	\$ 485.355	\$ 485.355
			Construct a new grit removal system sized at 12.5 MGD to									
29	WWMP	Grit Removal	serve projected future flows. Upgrade integration into the									
			SCADA system to improve operational efficiencies.	2019-2023			High	N/A	Y	100%	\$ 901,000	\$ 901,000
			Convert existing aerated lagoon into influent flow									
			equalization/surge basin capable of handling 0.65 MG. Peak									
30		Flow Equalization Basin	flows will be conveyed from the transfer pump station to the									
50			equalization basin. Basin will be dredged and a new									
			concrete structure (due to high groundwater conditions) will									
			be constructed.	2019-2023			High	N/A	Y	100%	\$ 1,190,000	\$ 1,190,000
			Construct new control panel, Variable Frequency Drives									
			(VFDs) and new pumps in the existing Transfer Pump Station									
			Controls Building. To process peak flows, the Transfer Pump									
31	W WIVIP	Transfer Pump Station	Station will convey raw wastewater through both parallel 18-									
			and 18 inch diameter force mains. During the summer months, only									
			mains from the existing point of entry into Lagoon #1 to the									
			new Sequencing Batch Reactor	2019-2023			High	Ν/Δ	v	100%	\$ 844.000	\$ 844.000
			Construct new four-cell SBB system. Four cells provides	2013 2023					<u> </u>	100/0	· • · · · · · · · · · · · · · · · · · ·	\$ 044,000
			adequate equalization allowing uniform downstream flows.									
			Preliminarily, the internal dimensions, for each of the four									
22	1404040	Commenciana Bartak Barantana	units, SBR basin are 113 feet long by 38 feet wide by 21.5									
32	W WIVIP	Sequencing Batch Reactors	feet high. The SBR will include fine bubble diffusers,									
			blowers, controls, and SCADA system. Designed system to									
			produce effluent less than 10 mg/L BOD5, less than 10 mg/L									
			TSS, and less than 2 mg/L NH3-N.	2019-2023			High	N/A	Y	100%	\$ 6,707,000	\$ 6,707,000
33	WWMP	Lagoon Desludging and Disposal	Remove Biosolids from the existing facultative/storage									
			lagoons.	2019-2023			High	N/A	Y	100%	\$ 3,875,000	\$ 3,875,000
			Construct aerobic digester sized to greater than 60 days									
24		Asrahia Digastar	Solids Retention Time (SRT) and include a diffused aeration									
34	WWW	Aerobic Digester	grid, blowers, piping, and ancillary equipment. The aerobic									
			from the SPR, and direct stabilized biosolids to the									
			dewatering screw press via biosolids transfer numps	2019-2023			High	Ν/Δ	v	100%	\$ 3 332 000	\$ 3,332,000
					1	1			<u>.</u>			, <u>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
			Construct biosolids dewatering screw press sized to process									
			360 lbs/hour. The screw press will receive stabilized									
25		Piecelide Processing Eacility	biosolids from the aerobic digester at roughly 2% dry solids,									
35		Diosonus Flocessing FdCility	and dewater to approximately 14% or higher. Dewatered						1			
			biosolids will be stored inside a bay immediately adjacent to									
			the dewatering screw press. The biosolids will eventually be									
L	l	l	land applied or disposed of at a nearby landfill.	2019-2023			High	N/A	Y	100%	\$ 1,867,000	\$ 1,867,000

2019 City of Molalla SDC Methodology Update 13

			2018 Wastewate	Capital Improver	nent Plan								
									SDC				
2018 CIP							Master		Funding				
Project	Project			New Priority Year	r New Priority Year	New Priority Year	Plan		Eligible	SDC Share	2018 Mast	ter	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost E	st.	SDC Eligible Cost
			Treatment Pla	nt Improvement P	Projects		,			~p~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~		
			Construct new sodium hypochlorite disinfection system for										
			use during the summer months and UV disinfection system										
			for use in winter months. During the summertime,										
36	WWMP	Disinfection (HS/UV)	disinfected effluent will be conveyed to recycled water										
			storage ponds, before being conveyed to the effluent pump										
			station. When discharging to the Molalla River, disinfected										
			effluent would normally be conveyed from the UV system	2010 2022						1000			
			directly to the effluent pump station.	2019-2023			High	N/A	Y	100%	\$ 1,460,	500 ; ;	5 1,460,500
			construction includes dike stabilization improvements to										
27		Pocycled Water Storage Improvements	linspect and repair deficiencies in existing pend clay liner										
57	VVVVIVIF	Necycled water storage improvements	line largoons with a hypalon liner, and make improvements										
			to the transfer nining	2019-2023			High	N/A	v	100%	\$ 3.348	857	\$ 3 3/8 857
	+		Expand recycled water irrigation infrastructure to high	2013 2023				1		100/0	<i>ç</i> 3,310,	,	, 3,3 10,037
38	WWMP	Recycled Water Irrigation Expansion	priority land application sites.	2019-2023			High	N/A	Y	100%	Ś 2.010.	000	\$ 2.010.000
		1	The discharge monitoring station piping is capacity limited,										
20	14/14/14/14	Discharge Maribarian Chaking	and causes backups during peak flows. The discharge										
39	WWIMP	Discharge Monitoring Station	monitoring piping will require improvements to provide										
			capacity for conveying existing and future flows.	2019-2023			High	N/A	Y	100%	\$ 415,	000 \$	\$ 415,000
40	W/W/MP	Misc Equipment	Site wide facility equipment to support the improvements										
		inise. Equipment	listed.	2019-2023			High	N/A	Y	100%	\$ 750,	000 ;	\$ 750,000
41	WWMP	Effluent Pump Station Upgrade and	Replace existing VFD driven vertical turbine pumps and										
	ļ	Expansion	linstall 3rd effluent pump.	2019-2023			High	N/A	Y	100%	Ş 697,	000 ; ;	\$ 697,000
			A new Controls Building will be constructed to house the										
			blowers and controls for the new SBR, including blosolids										
42		Site Structures	indiagement controls and systems. A new standby										
42	VVVVIVIP	Site Structures	generator and addonatic transfer switch will be histalied to										
			serve the SBR, tertial system (in required), disinfection										
			compliance during a power outage	2019-2023			High	N/A	v	100%	\$ 1,170		\$ 1 170 000
		1	Civil site work, including plumbing, grading, drainage.	2013 2023	1						<u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, 1,1,1,0,000
43	WWMP	Site Improvements and Yard Piping	paving, landscaping, and restoration, to support the										
		, , , , , , , , , , , , , , , , , , ,	improvements listed.	2019-2023			High	N/A	Y	100%	\$ 2,519,	000 \$	\$ 2,519,000
			if the City is unable to secure a suitable mass load increase		1			1					
			associated with the Molalla River outfall. The tertiary										
			filtration system will be sized to accommodate the peak										
			decant rate from the SBR, and an average influent TSS										
44	WWMP	Tertiary Filtration (If Needed)	concentration of 10 mg/L. Target effluent concentration										
			from the tertiary filtration system is less than 4-5 mg/L TSS.										
			The tertiary filtration system will consist of two units. The										
			tertiary systems will be rotating disk filter packages, and										
ļ			installed in parallel.	2019-2023			High	N/A	Y	100%	\$ 2,387,	000 ;	\$ 2,387,000
			If the City is unable to secure a suitable mass load increase										
			associated with the Molalla River outfall. The tertiary										
			filtration system will be sized to accommodate the peak										
45		Recycled Water Storage Expansion (If	decant rate from the SBR, and an average influent TSS										
45	WWMP	Needed)	from the tertian filtration system is less than 4.5 mg/L TSS										
			The tertiany filtration system will consist of two units. The				1	1					
			tertiary systems will be rotating disk filter packages and					1		1			
			linstalled in parallel.	2019-2023			High	N/A	Y	100%	\$ 13,478		\$ 13,478,000
	1	\$		, 2010 2020	: (					Subtotal His	zh Priority C	osts 9	\$ 66.455.712
									Sub	total Mediu	m Priority C	osts \$	\$
										Subtotal Lo	w Priority C	osts \$	\$-
									Subto	tal Program	Costs (19 Ye	ars) 🕄	\$ 66,455,712
									Subtotal	SDC Eligible	Costs (19 Ye	ars) (	\$ 66,455,712

### Wastewater Customers Current and Future Demographics

#### **Existing Wastewater Demand and Population Growth**

Current Molalla wastewater demands documented in the 2018 wastewater treatment system master plan are based on Average Annual Dry Weather Flows (AADWF) to the headworks of the wastewater treatment plant. These flows are expressed in million gallons per day (MGD) figures. For the purpose of this wastewater SDC methodology update, the project team had to translate these MGD figures into standard billing units used for charging out SDCs. In this case, those standard billing figures are expressed in EDUs. In the wastewater industry, an EDU is typically defined as the amount of wastewater a single family residential customer contributes to the wastewater system during an average month in the winter, where winter is defined as November through April. Fortunately, the City's utility billing system tracks the winter average water consumption for the single family residential customer class. When a new single family residential customer connects to the wastewater system, that customer is assigned the "system average winter monthly water consumption" for the basis of the sewer usage charge. Once that customer established his/her own winter water usage history, that actual average number overwrites the system average. For the winter period November, 2015 through April, 2016, the average single family residential customer contributes 5.15 hundred cubic feet (CCF) of water to the wastewater system in the average winter month. This hundred cubic feet figure translates to 127 gallons per day.

#### **Forecasted EDUs**

With this historical consumption data in hand, the project team was able to calculate the number of EDUs relative to the AADWF data from the wastewater treatment plant monitoring data that gets reported to the Oregon Department of Environmental Quality on a monthly basis. The EDU calculation methodology is shown in Table 4.

Table 4 - Forecast of Current and	Future Wastewa	ter EDUs		
-	2017	2043	Growth	CAGR <sup>1</sup>
Average Dry Weather Flow (ADWF) MGD <sup>2</sup>	1.1100	1.9000	0.7900	2.09%
Observed Molalla EDU (November 2015 - April, 2016)				
Ccf per month - Single Family Residential <sup>3</sup>	5.15	5.15		
Gallons per month - SFR	3,853	3,853		
Gallons per day - SFR	127	127		
Estimated EDUs based on ADWF and observed Molalla SFR	8,763	15,000	6,237	2.09%

1 CAGR - Compounded Annual Growth Rate

<sup>2</sup> Source: Wastewater Facility and Collection System Master Plan; November, 2018; the Dyer Partnership Engineers & Planners, Inc.; Table ES.4.1

3 Source: City of Molalla utility billing system records

### **Reimbursement Fee Calculations**

As discussed earlier in this report, the reimbursement fee represents a buy-in to the cost, or value, of infrastructure capacity within the existing system. In theory, this should be a simple calculation. Simply go to the Utility's balance sheet, find the book value of assets in service, and divide that cost by the number of forecasted new connections to the wastewater system. That is a simple calculation, and it is wrong. In order to determine an equitable reimbursement, we have to account for some key issues of rate equity;

- First, the cost of the system to the City's existing customers may be far less than the total plantin-service value. This is due to the fact that elements of the existing system may have been contributed, whether from developers, governmental grants, and other sources.
- Second, the value of the existing system to a new customer is less than the value to an existing customer, since the new customer must also pay, through an improvement fee, for expansion of some portions of the system.
- Third, the accounting treatment of asset costs generally has no relationship to the capacity of an
  asset to serve growth. In the absence of a detailed asset by asset analysis detailed in the balance
  sheet (or fixed asset schedule), a method has to be used to allocate cost to existing and future
  users of the asset. Generally, it is industry practice to allocate the cost of existing facilities
  between used and available capacity proportionally based on the forecasted population growth
  as converted to equivalent dwelling units (i.e., equivalent <sup>3</sup>/<sub>4</sub>" meters) over the planning period.
- Fourth, the Oregon SDC statute has strict limitations on what type of assets can be included in the basis of the reimbursement fee. ORS 223.299 specifically states that a "capital improvement" does not include costs of the operation or routine maintenance of capital improvements. This means the assets on the balance sheet such as certain vehicles and equipment used for heavy repair and maintenance of infrastructure cannot be included in the basis of the reimbursement fee.

For this wastewater SDC methodology update, the following discrete calculation steps were followed to arrive at the recommended wastewater reimbursement fee.

- Step 1: Calculate the original cost of wastewater fixed assets in service. From this starting point, eliminate any assets that do not conform to the ORS 223.299 definition of a capital improvement. This results in the **adjusted original cost of wastewater fixed assets**.
- Step 2: Subtract from the adjusted original cost of wastewater fixed assets in service the accumulated depreciation of those fixed assets. This arrives at the **modified book value of wastewater fixed assets in service**.
- Step 3: Subtract from the modified book value of wastewater assets in service any grant funding or contributed capital. This arrives at the modified book value of wastewater fixed assets in service net of grants and contributed capital.
- Step 4: Subtract from the modified book value of wastewater fixed assets in service net of grants and contributed capital any principal outstanding on long term debt used to finance those assets. This arrives a **gross wastewater reimbursement fee basis**.
- Step 5: Subtract from the gross wastewater reimbursement fee basis the fund balance held in the Wastewater Reimbursement SDC fund (if available). This arrives at the **net wastewater reimbursement fee basis**.

Step 6: Divide the net wastewater reimbursement fee basis by the sum of existing and future EDUs to arrive at the **unit net reimbursement fee**.

The actual data that was used to calculate the total wastewater reimbursement fee is shown below in Table 5.

Table 5 - Calculation of the Wastewater Reimbursement Fee	
Utility Plant-in-Service (original cost): <sup>1</sup>	
Land, Easements & Right of Way	\$ 494,445
Land improvements	130,117
Construction	1,350,300
Infrastructure	9,117,644
Machinery and equipment	414,184
Licensed Vehicles	96,691
Construction Work-in-Progress	 -
Total Utility Plant-in-Service	11,603,381
Accumulated depreciation <sup>1</sup>	
Land	-
Land improvements	126,362
Buildings	599,564
Infrastructure	3,493,128
Machinery and equipment	332,048
Vehicles	85,530
Construction Work-in-Progress	 -
Total accumulated depreciation	4,636,631
Book value of water utility plant-in-service @ June 30, 2015	6,966,750
Eliminating entries:	
Principal outstanding on bonds, notes, and loans payable	
2010 Sewer Refunding Bonds	2,565,000
2005 Clean Water State Revolving Loan	1,935,111
Developer Contributions Grants, net of amortization	 -
	4,500,111
Net basis in utility plant-in-service available to serve future customers	\$ 2,466,639
Estimated existing and future wastewater treatment EDUs	15,000
Calculated reimbursement fee - \$ per treatment EDU	\$ 198

Source: Molalla Accounting Summary Report - Capitalized Assets as of June 30, 2018

### **Improvement Fee Calculations**

The calculation of the wastewater improvement fee is more streamlined than the process used to calculate the wastewater reimbursement fee. This study continues to use the improvements-driven method, and has relied on the 2018 wastewater system capital improvement plan. Under this methodology, only three steps are required to arrive at the improvement fee. These steps are:

- Step 1: Accumulate the future cost of planned improvements needed to serve growth. This arrives at **the gross improvement fee basis**.
- Step 2: Subtract from the gross improvement fee basis the fund balance held in the Wastewater Improvement SDC Fund. This arrives at **the net wastewater improvement fee basis**.
- Step 3: Divide the net wastewater improvement fee basis by the forecasted number of growth EDUs over the planning period. This arrives at **the total wastewater improvement fee**.

The actual data that was used to calculate the total wastewater improvement fee is shown below in Table 6.

Improvement in Cost Attributed to Casts Att		Estimated Cost of	Project Costs	
Project Description         2018 Dollars         Existing Demands         Future Demands           Collicition System Improvement Projects         5425,700         \$50         \$50           Patrol Street         591,200         5         50         \$70         \$50           Lola Avenue         675,200         675,200         675,200         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         \$50         <		Improvement in	Cost Attributed to	Costs Attributed to
Conector 3 steen improvement Projects Forton Avenue Forton	Project Description	2018 Dollars	Existing Demands	Future Demands
Partol Street         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00         342,00	Collection System Improvement Projects	¢425 700	¢425 700	ćo
Partiol Valuet         331,200         -           Lois Avenue         675,200         -           Extern Avenue         632,200         675,200         -           Swiegle Avenue         632,200         627,200         -           Undsey Addition to Molala Lift Station         1,149,200         -         -           Eventor Avenue         288,200         288,200         -         -           Enviso Avenue         633,700         633,700         -         -           Berkley Avenue         633,700         50,200         -         -           Scole Avenue         304,200         346,200         -         -           S. Molal Avenue         394,700         384,700         -         -           S. Cole Avenue to E. Park Avenue         384,700         384,700         -         -           S. Molal Forst Road         722,200         1,267,200         -         -           Parkie Avenue         384,700         384,700         -         -           S. Molal Forst Road         722,20         72,200         -         -           Meadowiawn Place         384,700         343,700         -         -           Sub Milai Sub Staton         1,3	Petrol Street	\$425,700 E01.200	\$425,700 E01,200	ŞU
Exterd Avenue         613,200         -           S. Swiegle Avenue         627,200         627,200         -           Indsey Addition to Molalla Lift Station         1,143,200         1,143,200         -           E Main Street (lwy 211)         1,028,200         1,088,200         -           Berkley Avenue         633,700         633,700         -           Mither Avenue         510,200         510,200         -           S. Molalla Avenue         334,200         334,200         -           S. Molalla Avenue         334,200         334,200         -           S. Cole Avenue to E. Park Avenue         1,040,200         1,040,200         -           S. Cole Avenue         384,700         384,700         -         -           Garden Court         395,700         398,700         -         -           S. Molalla Avenue         381,700         45,720         -         -           S. Molalla Avenue         381,700         384,700         -         -           S. Cole Avenue         381,700         415,200         -         -           S. Cole Avenue, Escot Street, Bronco Avenue, Glory         1,267,200         -         -           Avenue, Escot Street, Bronco Avenue, Glory		676 200	676 200	-
S. Swiegle Avenue         677,200         677,200	Eckerd Avenue	613 200	613 200	-
Lindsey Addition to Molalla Lift Station         1,149,200         1,149,200         -           Fenton Avenue         288,200         288,200         -           E. Main Street (Hwy 211)         1,028,200         1,028,200         -           Brickley Avenue         683,700         683,700         -           Mattler Avenue         334,200         334,200         -           S. Molall Avenue         334,200         334,200         -           S. Cole Avenue to E. Park Avenue         1,040,200         1,040,200         -           S. Cole Avenue to E. Park Avenue         384,700         383,700         -           S. Cole Avenue to E. Park Avenue         381,700         381,700         -           S. Molall Avenue, Escort Street Bonco Avenue, Glory         1,267,200         -         -           S. Molalla Forest Road         782,200         -         -         -           South Molalla Pump Station         130,000         130,000         -         -           South Molalla Pump Station         130,000         130,000         -         -           South Molalla Pump Station         130,000         -         -         90,1000         -           South Molalla Pump Station         130,000         - <td>S. Swiegle Avenue</td> <td>627,200</td> <td>627,200</td> <td>-</td>	S. Swiegle Avenue	627,200	627,200	-
Fertion Avenue         298,200         -           E. Main Street (Hwy 211)         1,028,200         1,028,200         -           Berkley Avenue         693,700         693,700         -           Kimberky Court         326,200         336,200         -           S. Cole Avenue         394,200         336,200         -           S. Cole Avenue to E. Park Avenue         394,200         394,200         -           S. Cole Avenue to E. Park Avenue         394,700         393,700         -           Garden Court         399,200         384,700         -           Garden Court         394,200         782,200         782,200           S. Molalla Forest Road         782,200         782,200         -           E. Bh Street to LP Park Avenue         381,700         -         -           S. Molalla Forest Road         782,200         782,200         -           Annual CCV Porgam         1,300,000         -         -           South Molalla Pump Station         491,500         491,500         -           Stowers Pump Station         150,000         -         -           Stowers Pump Station         150,000         -         -           Stowers Pump Station         1	Lindsey Addition to Molalla Lift Station	1,149,200	1,149,200	-
E. Main Street (Hwy 211)         1,028,200         1.028,200         -           Berkley Avenue         693,700         693,700         -           S. Molail Avenue         394,200         326,200         -           S. Molail Avenue         394,200         1,400,200         1,400,200         -           S. Cole Avenue to E. Park Avenue         1,040,200         1,400,200         -         -           S. Cole Avenue to E. Park Avenue         394,700         394,700         -         -           S. Cole Avenue to E. Park Avenue         381,700         331,700         -         -           S. Molail Forest Road         782,200         722,200         -         -           Meadoulwan Place         343,200         -         -         -           Annual CCTV Program         1,267,200         1,27,200         -         -           Stown Molaila Fourg Station         150,000         1,200,000         -         -           Stower Shump Station         150,000         150,000         -         -           Stower Shump Station         150,000         -         19,019,000         -         19,019,000         -           Influent Storeen         483,355         -         484,355	Fenton Avenue	298,200	298,200	-
Berkley Avenue         693,700         593,700         593,700           Mettler Avenue         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200         510,200	E. Main Street (Hwy 211)	1,028,200	1,028,200	-
Metzier Avenue         \$10,200         \$10,200         -           Kimberly Court         326,200         326,200         1           S. Cole Avenue to E. Park Avenue         1,040,200         1,040,200         -           N. Cole Avenue to E. Park Avenue         394,700         394,700         -           Garden Court         399,200         395,200         -         -           Oak Street         415,200         415,200         -         -           E. Heintz Street to E. Park Avenue         381,700         381,700         -         -           S. Molalla Forest Road         782,200         782,200         -         -           Meadoulawn Place         348,200         1,27,200         -         -           Annual CCTV Program         1,300,000         1,300,000         -         -           Pump Station         491,500         491,500         -         -           Tscurs Pump Station         150,000         150,000         -         -           Stowers Pump Station         150,000         150,000         -         -           Influent Toprovement Projects         -         485,355         -         485,355         -         485,355         -         485,355 <td>Berkley Avenue</td> <td>693,700</td> <td>693,700</td> <td>-</td>	Berkley Avenue	693,700	693,700	-
Kinberly Court         326,200         -           S. Molal Avenue         394,200         -           S. Cole Avenue to E. Park Avenue         1,040,200         1,040,200         -           N. Cole Avenue to E. Park Avenue         394,700         394,700         -           Garden Court         399,200         309,200         -           Dak Street         415,200         415,200         -           E. Heintz Street to E. Park Avenue         381,700         381,700         -           S. Molala Forest Road         782,200         782,200         -           Meadoulwane Place         343,200         434,200         -           Annual CCTV Program         1,300,000         -         -           Pump Station Improvement Projects         -         -         -           South Molala Pump Station         191,500         -         -           Teutron Pump Station         150,000         150,000         -           Stoth Molala Pump Station         150,000         150,000         -           Teutron Plant Improvement Projects         -         -         -           WWTP Upgrade Design         19,019,000         -         19,019,000         -         19,019,000         -	Metzler Avenue	510,200	510,200	-
S. Molila Avenue         394,200         1,940,200         -           S. Cole Avenue to E. Park Avenue         1,940,200         1,940,200         -           S. Cole Avenue to E. Park Avenue         394,700         394,700         394,700         -           Garden Court         309,200         393,200         -         -         -           S. Molial Forces Road         782,200         782,200         -         -           S. Molial Forces Road         344,200         344,200         344,200         -           E. Sh Street to Mathias Court         631,700         631,700         -         -           Annal CCTV Program         1,300,000         1,267,200         -         -           South Molial Pump Station         491,500         491,500         -         -           South Molial Pump Station         150,000         150,000         -         -           Tearturs Pump Station         150,000         150,000         -         -         483,355         -         483,355         -         483,355         -         483,355         -         483,355         -         483,355         -         483,355         -         483,355         -         483,355         -         483,355	Kimberly Court	326,200	326,200	-
S. Cole Avenue       1,040,200       1,040,200       -         N. Cole Avenue       394,700       394,700       -         Garden Court       309,200       309,200       -         Oak Street       415,200       415,200       -         E. Heintz Street to E. Park Avenue       381,700       381,700       -         S. Molalla Forest Road       782,200       782,200       -         Meadoulawin Place       348,200       348,200       -         Exhipter Avenue, Escort Street, Bronco Avenue, Glory       1,267,200       1,267,200       -         Pump Station Improvement Projects       -       -       -         South Molalla Pump Station       150,000       150,000       -         Storter Nemue Station       150,000       150,000       -         Storte Gualla Pump Station       150,000       150,000       -         Tradement Phane Improvement Projects       -       -       -         WWTP Upgrade Design       19,019,000       -       19,019,000       -       -         Influent Screen       485,355       -       485,335       -       485,335       -       -       -       -       -       -       -       -       -	S. Molalla Avenue	394,200	394,200	-
N. Cole Avenue         394,700         394,700         394,700           Garden Court         302,200         394,700         394,700         394,700           Oak Street         415,200         415,200         415,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200         782,200	S. Cole Avenue to E. Park Avenue	1,040,200	1,040,200	-
Garden Court         309,200         309,200         309,200           Oak Street         415,200         415,200         415,200           E. Heintz Street to E. Park Avenue         381,700         381,700         381,700           S. Molalla Forest Road         782,200         782,200         4.0           Meadowlawn Place         348,200         348,200            E. 8th Street to Mathias Court         631,700         633,700            Annual CCTV Program         1,200,000         1,300,000            Pump Station         491,500         491,500         491,500            South Molal Pump Station         150,000         150,000             Teurus Pump Station         150,000         150,000             Teutment Plant Improvement Projects           485,355          485,355          485,355          485,355          485,355          485,355          485,355          485,355          485,355          485,355          485,355          485,355	N. Cole Avenue	394,700	394,700	-
Dak Street         415,200         415,200         -           E. Heintz Street to E. Park Avenue         331,700         -         -           S. Mohalla Forest Road         782,200         782,200         -           Meadowlawn Place         348,200         348,200         -           E. Bth Street to Mathias Court         631,700         631,700         -           Annual CCIV Program         1,300,000         1,267,200         1,267,200           Pump Station Improvement Projects         -         -         -           South Molalla Pump Station         265,000         269,000         -           Steelhead & Coho Pump Station         150,000         150,000         -           Steelhead & Coho Pump Station         150,000         150,000         -           Influent Screen         465,355         -         465,355           Gritz Steelhead & Coho Pump Station         13,019,000         -         13,019,000           Influent Screen         465,355         -         465,355           Gritz Steelhead & Coho Pump Station         1,300,000         -         1,501,000           Sequencing Batch Reactors         6,707,000         -         6,707,000           Lagoon Desludging and Disposal         3,87	Garden Court	309,200	309,200	-
E. Heintz Street OL Park Avenue         381,700         381,700         381,700         -           S. Molali Forest Road         782,200         782,200         -           Meadowlawn Place         348,200         348,200         -           E. 8th Street to Mathias Court         631,700         1,267,200         1,267,200         -           Pump Station Improvement Projects         -         -         -         -           South Molalla Pump Station         150,000         150,000         -         -           Taurus Pump Station         150,000         150,000         -         -           Stowers Pump Station         150,000         150,000         -         -           Teatment Plant Improvement Projects         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Oak Street	415,200	415,200	-
S. Molaid Profest Road       762,000       762,000       -         Meadowian Place       348,200       348,200       -         E. Bh Street to Mathias Court       631,700       631,700       -         Explorer Avenue, Escort Street, Bronco Avenue, Glory       1,267,200       1,267,200       -         Pump Station Improvement Projects       -       -       -       -         South Molaid Pump Station       491,500       491,500       -       -         Taurus Pump Station       150,000       150,000       -       -       -         Steelhead & Coho Pump Station       150,000       -       19,019,000       -       -       19,019,000       -       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       19,019,000       -       1450,000       -       845,355       -       485,355       -       485,350	E. Heintz Street to E. Park Avenue	381,700	381,700	-
meeduowant Prace         346,200         346,200	S. Molalia Forest Road	782,200	782,200	-
Explorer Avenue, Escot Street, Bronco Avenue, Glory         1,27,00         1,27,200         1,27,200           Annual CCTV Program         1,300,000         1,300,000         -           South Molalla Pump Station         491,500         491,500         -           South Molalla Pump Station         150,000         150,000         -           Stowers Pump Station         150,000         150,000         -           Stowers Pump Station         150,000         150,000         -           Teatment Plant Improvement Projects         -         485,355         -         485,355           WVTP Upgrade Design         19,019,000         -         19,019,000         -         1,190,000         -         1,190,000         -         1,190,000         -         1,190,000         -         1,190,000         -         1,190,000         -         1,190,000         -         1,190,000         -         1,190,000         -         1,190,000         -         1,190,000         -         1,190,000         -         1,267,000         -         6,707,000         -         6,707,000         -         6,707,000         -         8,275,000         -         3,875,000         -         3,875,000         -         3,875,000         -         3,	F 8th Street to Mathias Court	546,200 631 700	546,200 631 700	-
Lapon Treating         1,300,000         -           Pump Station Improvement Projects         -         -           South Molalla Pump Station         491,500         491,500         -           Station Improvement Projects         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Explorer Avenue Escort Street Bronco Avenue Glory	1 267 200	1 267 200	_
Dump Station Improvement Projects         Dublication         Dublication           South Molalla Pump Station         491,500         491,500         -           Taurus Pump Station         150,000         150,000         -           Stowers Pump Station         150,000         150,000         -           Stowers Pump Station         150,000         150,000         -           Treatment Plant Improvement Projects         -         495,355         -         485,355           Grit Removal         901,000         -         19,019,000         -         19,019,000           Influent Screen         485,355         -         485,355         -         485,355           Grit Removal         901,000         -         11,90,000         -         11,90,000           Transfer Pump Station         844,000         -         844,000         -         844,000           Sequencing Batch Reactors         6,707,000         -         6,707,000         -         3,875,000         -         3,875,000         -         3,875,000         -         3,875,000         -         3,848,857         -         3,348,857         -         -         2,010,000         -         2,010,000         -         2,010,000         -	Annual CCTV Program	1 300 000	1,207,200	-
South Molalla Pump Station         491,500         -           Tarurs Pump Station         269,000         269,000         -           Stowers Pump Station         150,000         150,000         -           Steelhead & Coho Pump Station         150,000         150,000         -           Treatment Phot Improvement Projects         -         485,355         -         485,355           Grit Removal         901,000         -         1,190,000         -         1,190,000           Flow Equalization Basin         1,190,000         -         1,190,000         -         6,707,000           Sequencing Batch Reactors         6,707,000         -         6,707,000         -         6,707,000           Lagoon Desludging and Disposal         3,875,000         -         3,875,000         -         3,875,000           Disosicits Processing Facility         1,867,000         -         1,460,500         -         1,460,500           Disosicits Avter Irrigation Expansion         2,010,000         -         2,010,000         -         2,030,000           Discharge Monitoring Station         415,000         -         1,170,000         -         1,170,000         -         1,170,000         -         1,170,000         -         2,387	Pump Station Improvement Projects	1,000,000	2,000,000	
Taurus Pump Station       269,000       269,000       -         Steenlead & Coho Pump Station       150,000       150,000       -         E. Sth & South Cole Pump Station       150,000       150,000       -         WWTP Upgrade Design       19,019,000       -       19,019,000       -         Influent Screen       485,355       -       485,355       -       485,355         Grit Removal       901,000       -       901,000       -       901,000       -       901,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -       844,000       -	South Molalla Pump Station	491,500	491,500	-
Stowers Pump Station         150,000         150,000         -           Steelhead & Coho Pump Station         150,000         150,000         -           Treatment Plant Improvement Projects         -         485,355         -         485,355           WVTP Upgrade Design         19,019,000         -         901,000         -         901,000           Flow Equalization Basin         1,190,000         -         1,190,000         -         484,000         -         844,000         -         844,000         -         3,875,000         -         3,875,000         -         3,875,000         -         3,875,000         -         3,875,000         -         3,875,000         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         1,460,500         -         2,010,000         -         2,010,000         -         2,010,000         -         2,010,000	Taurus Pump Station	269,000	269,000	-
Steelhead & Coho Pump Station         150,000         150,000         -           Fe. Sth & South Cole Pump Station         150,000         -         -           Treatment Proincest         -         -         -           WVTP Upgrade Design         19,019,000         -         19,019,000           Influent Screen         445,335         -         445,335           Grit Removal         901,000         -         1190,000           Flow Equalization Basin         1,190,000         -         1190,000           Transfer Pump Station         844,000         -         844,000           Sequencing Batch Reactors         6,707,000         -         8,75,000           Lagoon Desludging and Disposal         3,875,000         -         1,867,000           Disinferction (H5/UV)         1,460,500         -         1,460,500           Recycled Water Storage Improvements         3,348,857         -         3,348,857           Recycled Water Storage Improvements         2,347,000         -         1,50,000           Discharge Monitoring Station         415,000         -         415,000           Misc. Equipment         750,000         -         2,519,000         -         2,519,000           Site Stroctures	Stowers Pump Station	150,000	150,000	-
E. Sth & South Cole Pump Station       150,000       -         Treatment Plant Improvement Projects       -         WWTP Upgrade Design       19,019,000       -         Influent Screen       485,355       -         Grift Removal       901,000       -         Flow Equalization Basin       1,190,000       -         Transfer Pump Station       844,000       -         Sequencing Batch Reactors       6,707,000       -       6,707,000         Lagoon Desludging and Disposal       3,875,000       -       3,822,000         Biosolids Processing Facility       1,867,000       -       1,867,000         Disinfection (HS/UV)       1,460,500       -       1,460,500         Recycled Water Storage Improvements       3,348,857       -       3,348,857         Recycled Water Storage Improvements       3,448,857       -       3,448,857         Misc. Equipment       750,000       -       1,170,000       -         Distharge Monitoring Station       415,000       -       1,170,000       -       1,170,000       -       1,170,000       -       1,170,000       -       1,267,000       -       2,387,000       -       2,387,000       -       2,387,000       -       2,519,000 </td <td>Steelhead &amp; Coho Pump Station</td> <td>150,000</td> <td>150,000</td> <td>-</td>	Steelhead & Coho Pump Station	150,000	150,000	-
Treatment Plant Improvement Projects         WVTP Upgrade Design       19,019,000       -       19,019,000         Influent Screen       485,355       -       485,355         Grit Removal       901,000       -       901,000         Flow Equalization Basin       1,190,000       -       1,190,000         Transfer Pump Station       844,000       -       844,000         Sequencing Batch Reactors       6,707,000       -       3,875,000         Lagoon Desludging and Disposal       3,875,000       -       3,875,000         Aerobic Digester       3,332,000       -       3,332,000         Biosolids Processing Facility       1,867,000       -       1,466,500         Recycled Water Storage Improvements       3,348,857       -       3,348,857         Recycled Water Storage Improvements       3,348,857       -       3,348,857         Recycled Water Irrigation Expansion       2,010,000       -       2,010,000         Discharge Monitoring Station       415,000       -       1,170,000         Site Improvements and Yard Piping       2,519,000       -       2,387,000         Site Improvements and Yard Piping       2,387,000       -       2,387,000         Operation, Maintenance, a	E. 5th & South Cole Pump Station	150,000	150,000	-
WWTP Upgrade Design         19,019,000         -         19,019,000           Influent Screen         485,355         -         485,355           Grit Removal         901,000         -         01,000           Flow Equalization Basin         1,190,000         -         844,000           Sequencing Batch Reactors         6,707,000         -         6,707,000           Lagoon Desiduding and Disposal         3,875,000         -         3,875,000           Aerobic Digester         3,332,000         -         3,322,000           Disinfection (H5/UV)         1,466,500         -         1,460,500           Recycled Water Storage Improvements         3,348,857         -         3,348,857           Recycled Water Storage Improvements         3,348,857         -         415,000           Disinfection (H5/UV)         1,460,500         -         415,000           Disc. Equipment         750,000         -         750,000         -           Disc. Equipment         750,000         -         1,170,000         -         1,170,000           Ste Improvements and Yard Piping         2,519,000         -         2,387,000         -         2,387,000         -         2,387,000         -         2,387,000         -	Treatment Plant Improvement Projects			
Influent Screen       485,355       -       485,355         Grit Removal       901,000       -       901,000         Flow Equalization Basin       1,190,000       -       1,190,000         Transfer Pump Station       844,000       -       844,000         Sequencing Batch Reactors       6,707,000       -       6,707,000         Lagoon Desludging and Disposal       3,875,000       -       3,382,000       -       3,332,000         Aerobic Digester       3,332,000       -       3,332,000       -       3,332,000       -       3,348,857         Recycled Water Storage Improvements       3,348,857       -       3,348,857       -       3,348,857         Recycled Water Irrigation Expansion       2,010,000       -       2,010,000       -       2,010,000         Discharge Monitoring Station Upgrade and Expansion       697,000       -       1,170,000       -       1,170,000         Site Structures       1,170,000       -       1,2,480,000       -       2,387,000       -       2,387,000         Recycled Water Storage Expansion (If Needed)       1,3,478,000       -       1,3,478,000       -       2,519,000       -       2,519,000       -       2,50,000       -       2,50,000	WWTP Upgrade Design	19,019,000	-	19,019,000
Grit Removal       901,000       -       901,000         Flow Equalization Basin       1,190,000       -       1,190,000         Transfer Pump Station       844,000       -       844,000         Sequencing Batch Reactors       6,707,000       -       6,707,000         Lagoon Desludging and Disposal       3,875,000       -       3,875,000         Aerobic Digester       3,332,000       -       3,332,000         Biosolids Processing Facility       1,867,000       -       1,460,500         Disinfection (HS/UV)       1,460,500       -       1,460,500         Recycled Water Storage Improvements       3,348,857       -       3,348,857         Recycled Water Irrigation Expansion       2,010,000       -       2,010,000         Discharge Monitoring Station       415,000       -       1,170,000         Misc. Equipment       750,000       -       1,170,000         Site Improvements and Yard Piping       2,519,000       -       2,387,000         Operation, Maintenance, and Master Plan Projects       Public Works Shops Facility (S600K)       150,000       -         Operation, Maintenance, and Master Plan       250,000       -       250,000       -         Update Wastewater Master Plan       250,00	Influent Screen	485,355	-	485,355
Flow Equalization Basin       1,190,000       -       1,190,000         Transfer Pump Station       844,000       -       844,000         Sequencing Batch Reactors       6,707,000       -       6,707,000         Lagoon Desludging and Disposal       3,875,000       -       3,875,000         Aerobic Digester       3,332,000       -       3,332,000         Biosolids Processing Facility       1,867,000       -       1,867,000         Disinfection (Hs/UV)       1,460,500       -       1,867,000         Recycled Water Storage Improvements       3,348,857       -       3,348,857         Recycled Water Inrigation Expansion       2,010,000       -       2,010,000         Disinfection (Hs/UV)       1,460,500       -       415,000         Misc. Equipment       750,000       -       750,000         Effluent Pump Station Upgrade and Expansion       697,000       -       2,519,000         Site Structures       1,170,000       -       1,170,000       -         Tertiary Filtration (If Needed)       2,387,000       -       2,387,000         Recycled Water Storage Expansion (If Needed)       13,478,000       -       13,478,000         Operation, Maintenance, and Master Plan Projects       50,000	Grit Removal	901,000	-	901,000
Transfer Pump Station       844,000       -       844,000         Sequencing Batch Reactors       6,707,000       -       6,707,000         Lagoon Desludging and Disposal       3,875,000       -       3,875,000         Aerobic Digester       3,332,000       -       3,332,000         Biosolids Processing Facility       1,867,000       -       1,867,000         Disinfection (HS/UV)       1,460,500       -       1,460,500         Recycled Water Storage Improvements       3,348,857       -       3,348,857         Recycled Water Irrigation Expansion       2,010,000       -       2,010,000         Discharge Monitoring Station       415,000       -       415,000         Misc. Equipment       750,000       -       750,000         Site Improvements and Yard Piping       2,519,000       -       2,387,000         Site Improvements and Yard Piping       2,387,000       -       2,387,000         Operation, Maintenance, and Master Plan Projects       -       -       80,000       -         Public Works Shops Facility (S600K)       150,000       -       150,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -	Flow Equalization Basin	1,190,000	-	1,190,000
Sequencing Batch Reactors         6, 70, 7000         -         6, 70, 7000           Lagoon Desiludging and Disposal         3, 875,000         -         3, 875,000           Aerobic Digester         3, 332,000         -         3, 332,000           Biosolids Processing Facility         1, 867,000         -         1, 867,000           Disinfection (HS/UV)         1, 460,500         -         1, 460,500           Recycled Water Storage Improvements         3, 348,857         -         3, 348,857           Recycled Water Irrigation Expansion         2,010,000         -         2,010,000           Discharge Monitoring Station         415,000         -         415,000           Misc. Equipment         750,000         -         750,000           Effluent Pump Station Upgrade and Expansion         697,000         -         2,139,000           Site Improvements and Yard Piping         2,387,000         -         2,387,000           Tertiary Filtration (If Needed)         2,387,000         -         13,478,000           Operation, Maintenance, and Master Plan Projects         -         -         80,000           Public Works Shops Facility (\$600K)         150,000         -         150,000         -         150,000         -         150,000	Transfer Pump Station	844,000	-	844,000
Lagoon Destudging and Disposal       3,875,000       -       3,373,000         Aerobic Digester       3,332,000       -       3,332,000         Biosolids Processing Facility       1,867,000       -       1,867,000         Disinfection (HS/UV)       1,460,500       -       1,460,500         Recycled Water Storage Improvements       3,348,857       -       3,348,857         Recycled Water Irrigation Expansion       2,010,000       -       2,010,000         Discharge Monitoring Station       415,000       -       415,000         Misc. Equipment       750,000       -       750,000         Effluent Pump Station Upgrade and Expansion       697,000       -       1,170,000         Site Improvements and Yard Piping       2,519,000       -       2,387,000         Recycled Water Storage Expansion (If Needed)       13,478,000       -       13,478,000         Operation, Maintenance, and Master Plan Projects       -       250,000       -       250,000         Public Works Shops Facility (\$600K)       150,000       -       150,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       - <td< td=""><td>Sequencing Batch Reactors</td><td>6,707,000</td><td>-</td><td>6,707,000</td></td<>	Sequencing Batch Reactors	6,707,000	-	6,707,000
Action Digster5,352,000-3,352,000Biosolids Processing Facility1,867,000-1,867,000Disinfection (H5/UV)1,460,500-1,460,500Recycled Water Storage Improvements3,348,857-3,348,857Recycled Water Irrigation Expansion2,010,000-2,010,000Discharge Monitoring Station415,000-415,000Misc. Equipment750,000-750,000Effluent Pump Station Upgrade and Expansion697,000-697,000Site Structures1,170,000-1,170,000Site Improvements and Yard Piping2,519,000-2,387,000Recycled Water Storage Expansion (If Needed)13,478,000-13,478,000Operation, Maintenance, and Master Plan Projects-250,000-150,000Public Works Shops Facility (\$600K)150,000-250,000-250,000Update Wastewater Master Plan250,000-250,000-250,000Total Improvement Fee Eligible Costs for Future System Improvements\$66,935,712681,347Adjusted Improvement Fee Eligible Costs for Future System Improvements\$66,254,365566,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,2376,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Lagoon Desludging and Disposal	3,875,000	-	3,875,000
Disords Processing activity1,807,0001,460,500Disinfection (HS/UV)1,460,5001,460,500Recycled Water Storage Improvements3,348,857Recycled Water Irrigation Expansion2,010,000Discharge Monitoring Station415,000Misc. Equipment750,000Site Structures1,170,000Site Structures1,170,000Site Improvements and Yard Piping2,519,000Calculated Water Storage Expansion (If Needed)13,478,000Discharge Monitoring Project50,000Site Structures11,478,000Discharge Monitoring Project50,000Storage Then Projects50,000Public Works Shops Facility (\$600K)150,000Update Wastewater Master Plan250,000Total Improvement Fee Eligible Costs for Future System Improvements\$66,935,712Site Improvement Fee Eligible Costs for Future System Improvements\$66,935,712Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Riosolids Processing Facility	3,332,000	-	3,352,000
DistrictionArborsoArborsoRecycled Water Storage Improvements3,348,857-3,348,857Recycled Water Irrigation Expansion2,010,000-2,010,000Discharge Monitoring Station415,000-415,000Misc. Equipment750,000-750,000Effluent Pump Station Upgrade and Expansion697,000-697,000Site Structures1,170,000-1,170,000Site Improvements and Yard Piping2,519,000-2,387,000Recycled Water Storage Expansion (If Needed)13,478,000-13,478,000Operation, Maintenance, and Master Plan Projects-150,000-Public Works Shops Facility (\$600K)150,000-150,000-Update Wastewater Master Plan250,000-250,000-Total Improvement Fee Eligible Costs for Future System Improvements\$66,935,712\$66,935,712Total Improvement Fee Eligible Costs for Future System Improvements\$66,254,365\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,2376,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623\$10,623	Disinfection (HS/IIV)	1,807,000	-	1,807,000
InclusionSolutionSolutionRecycled Water Irrigation Expansion2,010,000-2,010,000Discharge Monitoring Station415,000-415,000Misc. Equipment750,000-750,000Effluent Pump Station Upgrade and Expansion697,000-697,000Site Structures1,170,000-1,170,000Site Improvements and Yard Piping2,519,000-2,387,000Recycled Water Storage Expansion (If Needed)13,478,000-13,478,000Operation, Maintenance, and Master Plan Projects-150,000-Public Works Shops Facility (\$600K)150,000-150,000-WTP - Fencing Project50,00050,000-250,000Big Gun #480,000-250,000-250,000Update Wastewater Master Plan250,000-250,000-Total Improvement Fee Eligible Costs for Future System Improvements\$66,935,712669,35,712Total Growth in 3/4" Meter Equivalents (2017-2043)6,2376,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Recycled Water Storage Improvements	3 348 857	-	3 348 857
Discharge Monitoring Station415,000-415,000Misc. Equipment750,000-750,000Effluent Pump Station Upgrade and Expansion697,000-697,000Site Structures1,170,000-1,170,000Site Improvements and Yard Piping2,519,000-2,519,000Tertiary Filtration (If Needed)2,387,000-2,387,000Recycled Water Storage Expansion (If Needed)13,478,000-13,478,000Operation, Maintenance, and Master Plan Projects-150,000-Public Works Shops Facility (\$600K)150,000-150,000-WWTP - Fencing Project50,00050,000-250,000Big Gun #480,000-250,000-Update Wastewater Master Plan250,000-250,000Total Improvement Fee Eligible Costs for Future System Improvements\$66,935,712Iess: Wastewater SDC Fund balance as of June 30, 2018\$66,935,712Adjusted Improvement Fee Eligible Costs for Future System Improvements\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Recycled Water Irrigation Expansion	2.010.000	-	2.010.000
Misc. Equipment       750,000       -       750,000         Effluent Pump Station Upgrade and Expansion       697,000       -       697,000         Site Structures       1,170,000       -       1,170,000         Site Improvements and Yard Piping       2,519,000       -       2,519,000         Tertiary Filtration (If Needed)       2,387,000       -       2,387,000         Recycled Water Storage Expansion (If Needed)       13,478,000       -       13,478,000         Operation, Maintenance, and Master Plan Projects       -       -       150,000       -         Public Works Shops Facility (\$600K)       150,000       -       150,000       -         Big Gun #4       80,000       -       80,000       -       250,000         Update Wastewater Master Plan       250,000       -       250,000       -       681,347         Total Improvement Fee Eligible Costs for Future System Improvements       \$66,935,712       681,347         Adjusted Improvement Fee Eligible Costs for Future System Improvements       \$66,254,365       566,254,365         Total Growth in 3/4" Meter Equivalents (2017-2043)       6,237       6,237         Calculated Water Improvement Fee SDC per Meter Equivalent       \$10,623	Discharge Monitoring Station	415,000	-	415,000
Effluent Pump Station Upgrade and Expansion697,000-697,000Site Structures1,170,000-1,170,000Site Improvements and Yard Piping2,519,000-2,519,000Tertiary Filtration (If Needed)2,387,000-2,387,000Recycled Water Storage Expansion (If Needed)13,478,000-13,478,000Operation, Maintenance, and Master Plan Projects-150,000-Public Works Shops Facility (\$600K)150,000-150,000WWTP - Fencing Project50,000-80,000Big Gun #480,000-250,000Update Wastewater Master Plan250,000-250,000Total Improvement Fee Eligible Costs for Future System Improvements\$66,935,712681,347Adjusted Improvement Fee Eligible Costs for Future System Improvements\$66,254,365\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,2376,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Misc. Equipment	750,000	-	750,000
Site Structures1,170,000-1,170,000Site Improvements and Yard Piping2,519,000-2,519,000Tertiary Filtration (If Needed)2,387,000-2,387,000Recycled Water Storage Expansion (If Needed)13,478,000-13,478,000Operation, Maintenance, and Master Plan ProjectsPublic Works Shops Facility (\$600K)150,000-150,000WWTP - Fencing Project50,00050,000-Big Gun #480,000-80,000250,000Update Wastewater Master Plan250,000-250,000Total Improvement Fee Eligible Costs for Future System Improvements\$66,935,712681,347Adjusted Improvement Fee Eligible Costs for Future System Improvements\$66,254,365\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,2376,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Effluent Pump Station Upgrade and Expansion	697,000	-	697,000
Site Improvements and Yard Piping2,519,000-2,519,000Tertiary Filtration (If Needed)2,387,000-2,387,000Recycled Water Storage Expansion (If Needed)13,478,000-13,478,000Operation, Maintenance, and Master Plan Projects-150,000-Public Works Shops Facility (\$600K)150,000-150,000WWTP - Fencing Project50,00050,000-Big Gun #480,000-80,000Update Wastewater Master Plan250,000-250,000Totals\$82,399,912\$15,464,200\$66,935,712Total Improvement Fee Eligible Costs for Future System Improvements\$66,935,712Iess: Wastewater SDC Fund balance as of June 30, 2018\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Site Structures	1,170,000	-	1,170,000
Tertiary Filtration (If Needed)2,387,000-2,387,000Recycled Water Storage Expansion (If Needed)13,478,000-13,478,000Operation, Maintenance, and Master Plan Projects-150,000-Public Works Shops Facility (\$600K)150,000-150,000WWTP - Fencing Project50,00050,000-Big Gun #480,000-80,000Update Wastewater Master Plan250,000-250,000Totals\$82,399,912\$15,464,200\$66,935,712Total Improvement Fee Eligible Costs for Future System Improvements less: Wastewater SDC Fund balance as of June 30, 2018\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,2376,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Site Improvements and Yard Piping	2,519,000	-	2,519,000
Recycled Water Storage Expansion (If Needed)13,478,000-13,478,000Operation, Maintenance, and Master Plan Projects-150,000-Public Works Shops Facility (\$600K)150,000-150,000WWTP - Fencing Project50,00050,000-Big Gun #480,000-250,000-Update Wastewater Master Plan250,000-250,000Totals\$82,399,912\$15,464,200\$66,935,712Total Improvement Fee Eligible Costs for Future System Improvements less: Wastewater SDC Fund balance as of June 30, 2018\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,2376,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Tertiary Filtration (If Needed)	2,387,000	-	2,387,000
Operation, Maintenance, and Master Plan Projects         Public Works Shops Facility (\$600K)       150,000       -       150,000         WWTP - Fencing Project       50,000       50,000       -       -         Big Gun #4       80,000       -       80,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       250,000       -       366,935,712       -       -       566,935,712       681,347       -       681,347       -       662,34,365       -       -       662,254,365       -	Recycled Water Storage Expansion (If Needed)	13,478,000	-	13,478,000
Public Works Shops Facility (\$600K)150,000-150,000WWTP - Fencing Project50,00050,000-Big Gun #480,000-80,000Update Wastewater Master Plan250,000-250,000Totals\$82,399,912\$15,464,200\$66,935,712Total Improvement Fee Eligible Costs for Future System Improvementsless: Wastewater SDC Fund balance as of June 30, 2018\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Operation, Maintenance, and Master Plan Projects			
WWTP - Fencing Project50,00050,000-Big Gun #480,000-80,000Update Wastewater Master Plan250,000-250,000Totals\$82,399,912\$15,464,200\$66,935,712Total Improvement Fee Eligible Costs for Future System Improvements\$66,935,712\$66,935,712Statewater SDC Fund balance as of June 30, 2018\$66,254,365\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,237\$62,37Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Public Works Shops Facility (\$600K)	150,000	-	150,000
Big Gun #4       80,000       -       80,000         Update Wastewater Master Plan       250,000       -       250,000         Totals       \$82,399,912       \$15,464,200       \$66,935,712         Total Improvement Fee Eligible Costs for Future System Improvements less: Wastewater SDC Fund balance as of June 30, 2018       \$66,935,712         Adjusted Improvement Fee Eligible Costs for Future System Improvements       \$66,254,365         Total Growth in 3/4" Meter Equivalents (2017-2043)       6,237         Calculated Water Improvement Fee SDC per Meter Equivalent       \$10,623	WWTP - Fencing Project	50,000	50,000	-
Update Wastewater Master Plan       230,000       -       230,000         Totals       \$82,399,912       \$15,464,200       \$66,935,712         Total Improvement Fee Eligible Costs for Future System Improvements less: Wastewater SDC Fund balance as of June 30, 2018       \$66,935,712         Adjusted Improvement Fee Eligible Costs for Future System Improvements       \$66,254,365         Total Growth in 3/4" Meter Equivalents (2017-2043)       6,237         Calculated Water Improvement Fee SDC per Meter Equivalent       \$10,623	Big Gun #4	80,000	-	80,000
Totals       \$82,399,912       \$15,464,200       \$66,935,712         Total Improvement Fee Eligible Costs for Future System Improvements       \$66,935,712         less: Wastewater SDC Fund balance as of June 30, 2018	Update Wastewater Master Plan	230,000		230,000
Total Improvement Fee Eligible Costs for Future System Improvements\$66,935,712Iess: Wastewater SDC Fund balance as of June 30, 2018681,347Adjusted Improvement Fee Eligible Costs for Future System Improvements\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	TOLAIS	\$82,399,912	\$15,404,200	\$00,935,712
less: Wastewater SDC Fund balance as of June 30, 2018       681,347         Adjusted Improvement Fee Eligible Costs for Future System Improvements       \$66,254,365         Total Growth in 3/4" Meter Equivalents (2017-2043)       6,237         Calculated Water Improvement Fee SDC per Meter Equivalent       \$10,623	Total Improvement Fee Eligible Costs for Future System Impro	ovements		\$66.935.712
Adjusted Improvement Fee Eligible Costs for Future System Improvements\$66,254,365Total Growth in 3/4" Meter Equivalents (2017-2043)6,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	less: Wastewater SDC Fund balance as of June 30, 2018			681,347
Total Growth in 3/4" Meter Equivalents (2017-2043)6,237Calculated Water Improvement Fee SDC per Meter Equivalent\$10,623	Adjusted Improvement Fee Eligible Costs for Future System In	nprovements		\$66,254,365
Calculated Water Improvement Fee SDC per Meter Equivalent \$10,623	Total Growth in 3/4" Meter Equivalents (2017-2043)			6,237
	Calculated Water Improvement Fee SDC per Meter Equival	ent		\$10,623

#### Table 6 - Calculation of the Wastewater Improvement Fee

<sup>1</sup> Allocations from City staff

### Wastewater SDC Model Summary

The 2019 wastewater SDC methodology update was done in accordance with Molalla Municipal Code Chapter 13.14, and with the benefit of adopted capital improvement plans and plan updates for wastewater services. We recommend the City update the SDC charge and methodology to reflect the current capital improvement program. Our analysis indicates the City can charge a maximum of \$11,037 for the standard  $\frac{3}{4}$ " residential water meter. A comparison of the proposed and current wastewater SDCs for the average single-family residential customer is shown below in Table 7.

Line Item Description	 City-Wide
Proposed SDC components:	
Reimbursement fee	\$ 198
Improvement fee Administration fee at 2%	 10,623 216
Total proposed wastewater SDC	\$ 11,037
Current SDC components:	
Reimbursement fee	\$ 198
Improvement fee Administration fee at 2%	 4,678 98
Total current wastewater SDC	\$ 4,974

Table 7 - Proposed and Current Wastewater SDCs for a 3/4" Meter

For water meters larger than  $\frac{3}{4}$ ", the schedule of wastewater SDC uses the same flow factors that were developed for the water SDCs (i.e., AWWA standards for displacement and compound meters). The complete proposed schedule of wastewater SDCs by potential meter size are shown in Table 8.

	AWWA Rated	Flow Factor	Р	roposed Schedule	of Wastewater SDC	s
Meter Size	Flow (GPM)*	Equivalence	Reimbursement	Improvement	Administration	Total
0.75"x 0.75" - Displacement Multi-jet	30	1.00	\$ 198	\$ 10,623	\$ 216	\$ 11,037
1.00 inch - Displacement Multi-jet	50	1.67	330	17,705	361	18,395
1.50 inch - Displacement Class I Turbine	100	3.33	660	35,409	721	36,791
2.00 inch - Displacement or Class I & II Turbine	160	5.33	1,056	56,655	1,154	58,865
3.00 inch - Displacement	300	10.00	1,980	106,228	2,164	110,372
4.00 inch - Displacement or Compound	500	16.67	3,300	177,047	3,607	183,953
6.00 inch - Displacement or Compound	1000	33.33	6,600	354,093	7,214	367,907
8.00 inch - Compound	1600	53.33	10,560	566,549	11,542	588,651

Table 8 - Proposed Schedule of Wastewater SDCs by Potential Water Meter Size

\* - AWWA Manual of Practice M3; Safety Practices for Water Utilities; Table 2-2 Total Quantities Registered per Month by Meters Operating at Varying Percentages of Maximum Capacity

### **Transportation SDCs**

### **Transportation Capital Improvement Plan**

The principal sources of data for the transportation system CIP are the 2018 capital improvement plans for transportation. The primary categories of transportation system improvements are:

- Pedestrian projects
- Bicycle projects
- Transit projects
- Transportation system management projects
- Transportation demand management projects
- Motor vehicle projects
- Traffic safety projects
- New facilities and master plan projects

City Staff have periodically updated these plans for current development conditions. With the assistance of City Staff, the project team has summarized the 2018 transportation system CIPs for this SDC methodology update. The 2018 transportation system CIP is shown in Table 9.

#### Table 9 - 2018 Transportation System CIP

			2018 Transportatio	n Capital Improv	ement Plan							
									SDC			
2018 CIP							Master		Funding			
Project	Project			New Priority Year	New Priority Year	New Priority Year	Plan		Eligible	SDC Share	2018 Master	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost Est.	SDC Eligible Cost
			Pedest	rian Proje	ects							
Artoria	l Stroot	Improvements										
Aitena	Jucer		Fill in gaps on both sides of the readway from the parth site	1	1	1	1		1	1		1
D1	тср	OP 212 <sup>1</sup>	limits to OB 211 with sidewalks of appropriate width (Fast									
11	151	01 213	Side 1 900 LE West Side 3 750 LE	2019-2023			High	N/A	Y	71%	\$ 1 240 000	\$ -
			Fill in gaps on both sides of the roadway from OR 211 to the	2013 2025							<i>v</i> <u>1,2 10,000</u>	Ŧ
P2	TSP	OR 2131	south city limits with sidewalks of appropriate width. (East									
			Side 1,710 LF, West Side 1,800 LF)		2024-2028		Medium	N/A	Y	89%	\$ 870,000	\$ -
			Install sidewalks on both sides of the roadway from the west									
P3	TSP	OR 211 <sup>1</sup>	city limits to OR 213. (North Side 1,615 LF, South Side 920									
			LF)	2019-2023			High	N/A	Y	100%	\$ 750,000	\$-
		_	Fill in the gaps on both sides of the roadway from OR 213 to									
P4	TSP	OR 2111	Molalla Avenue with sidewalks of appropriate width. (North									
			Side 5,240, South Side 4,770)	2019-2023			High	N/A	Y	66%	\$ 1,710,000	ş -
0.5	-	1	Install sidewalks on both sides of the roadway from Mathias									
P5	TSP	OR 211-	Road to the east city limits. (North Side 2,035 LF, South Side	2010 2022			110-14	NI/A	v	100%	ć 0.40.000	ć
			Z,200 LF)	2019-2023			High	N/A	Y Y	100%	\$ 940,000	ş -
P6	TSP	OR 211 <sup>1</sup>	Evaluate light levels and listal new street lighting as			2020 2020	1.000	NI / A	v	09/	ć 450.000	ć
		1	Fill in gaps on both sides of the ready av from the parth site.		1	2029-2056	LOW	IN/A	T	0%	\$ 450,000	ş -
D7	тер	N Molalla Avenue	limits to Heintz Street with sidewalks of appropriate width									
	151		(West Side 590 LE Fast Side 970 LE)	2019-2023			High	N/A	Y	31%	\$ 485,000	\$ 150 119
			Fill in gaps on both sides of the roadway from 5th Street to	2013 2025	1				<u> </u>		ý <u>(65)666</u>	ý <u>150</u> ,115
P8	TSP	S Molalla Avenue	the south city limits with sidewalks of appropriate width.									
			(West Side 785 LF, East Side 780 LF)		2024-2028		Medium	N/A	Y	59%	\$ 955,000	\$ 561,870
	TCD		Evaluate light levels and install new street lighting as	1								
P9	TSP	Molalla Avenue	necessary. <sup>2</sup>			2029-2038	Low	N/A	Y	0%	\$ 450,000	\$ -
Collecto	or Stree	et Improvements										
		· · · · · · · · · · · · · · · · · · ·	Fill in gaps on both sides of the roadway from the west city	1	1	1	[	[	<u> </u>	1		Ι
P10	TSP	Toliver Road	limits to OR 213 with sidewalks of appropriate width. (North									
			Side 1,950 LF, South Side 1,145 LF)		2024-2028		Medium	N/A	Y	79%	\$ 575,000	\$ 456,314
			Fill in gaps on both sides of the roadway from OR 213 to									
P11	TSP	Toliver Road	Molalla Avenue with sidewalks of appropriate width. (North									
			Side 5,160 LF, South Side 1,660)	2019-2023			High	N/A	Y	47%	\$ 1,730,000	\$ 818,211
			Fill in gaps on both sides of the roadway from N Molalla									
P12	TSP	Shirley Street	Avenue to OR 211 with sidewalks of appropriate width.									
			(North Side 3,120 LF, South Side 1,810 LF)		2024-2028		Medium	N/A	Y	52%	\$ 1,240,000	\$ 646,899
D12	тер	Pidings Avonuo	to OP 211 with sidewalks of appropriate width (West Side									
F15	1 Jr	Nulligs Avenue	1 815 LE Fast Side 1 625 LE)		2024-2028		Medium	Ν/Δ	v	87%	\$ 795.000	\$ 690,606
			Fill in gaps on the east side of the roadway from Toliver		2024 2020		Wiediam		<u> </u>	0770	\$ 755,000	\$ 050,000
P14	TSP	Lerov Avenue	Road to West Lane with sidewalks of appropriate width.									
			(West Side 75 LF, East Side 1,295 LF)		2024-2028		Medium	N/A	Y	35%	\$ 295,000	\$ 102,576
			Install sidewalks on both sides of the roadway from Stower	1						1		
P15	TSP	E 5th Street	Road to Mathias Road. (North Side 700 LF, South Side 700									
			LF)		2024-2028		Medium	N/A	Y	100%	\$ 330,000	\$ 330,000
			Fill in gaps on both sides of the roadway from Frances Street									
P16	TSP	Cole Avenue	to OR 211 with sidewalks of appropriate width. (West Side 0									
			LF, East Side 1,150 LF)		2024-2028		Medium	N/A	Y	25%	\$ 270,000	\$ 67,795
	760											
11/	1 SP	wamas Koad	Install sidewalks on both sides of the roadway from OR 211	1	2024 2029	1	Madium	NI/A	v	100%	¢ 1.405.000	¢ 1.405.000
			Fill in gaps on the south side of the roadway from N Molalla	ł	2024-2028		wearum	N/A	Ť	100%	ş 1,405,000	ə 1,405,000
P18	TSP	Francis Street	Avenue to Christonher Street with sidewalks of appropriate	1	1							
110	151	indico officer	width. (South Side 1.530 LF)		2024-2028		Medium	N/A	Y	100%	\$ 350.000	\$ 350,000
·		4	,,		, LOLO		,		,	,	. 550,000	

2019 City of Molalla SDC Methodology Update 23

#### 2018 Transportation Capital Improvement Plan SDC 2018 CIP Master Funding Proiect Proiect New Priority Year New Priority Year New Priority Year Plan Eligible SDC Share 2018 Master 2019-2023 Plan Cost Est. SDC Eligible Cost Number Source Project Name Project Description 2024-2028 2029-2038 Priority Length (Y/N) % **Pedestrian Projects** Neighborhood Street Improvements Fill in gaps on both sides of the roadway from north of P19 TSP Toliver Drive Berwick Court to Toliver Road with sidewalks of appropriate 280,000 width. (West Side 645 LF, East Side 575 LF) 2029-2038 N/A Y 100% Ś 280,000 Low Fill in gaps on both sides of the roadway from Ross Street to P20 TSP Kennel Avenue OR 211 with sidewalks of appropriate width. (West Side 310 2024-2028 87% Ś 130,000 113,165 LF, East Side 295 LF) Medium N/A v Fill in gaps on both sides of the roadway from N Molalla P21 TSP Heintz Street Avenue to Fenton Avenue with sidewalks of appropriate 2024-2028 385,000 208,090 width. (North Side 790 LF, South Side 745 LF) Medium N/A 54% Ś Fill in gaps on the east side of the roadway from Toliver P22 TSP ndustrial Way Road to the southern roadway terminus with sidewalks of appropriate width. (East Side 525 LF) 2024-2028 Medium N/A 60% Ś 110,000 66,379 Fill in gaps on both sides of the roadway from the northern ndustrial Way roadway terminus to OR 211 with sidewalks of appropriate P23 TSP width. (West Side 330 LF, East Side 490 LF) 2024-2028 Medium N/A 81% 170,000 137,041 Ś Fill in gaps on both sides of the roadway from OR 211 to E P24 TSP Stowers Road 7th Street with sidewalks of appropriate width. 2024-2028 Medium N/A 40% 470,000 188,443 Install sidewalks on both sides of the roadway from Stowers P25 TSP 7th Street Road to Mathias Road. (North Side 705 LF, South Side 705 LF) 2029-2038 Low N/A 100% 335,000 335,000 Ś Intersection Improvements Install an enhanced pedestrian crossing at the OR 213/Meadow Drive intersection to increase access to transit P26 TSP OR 213/Meadow Drive stop on west side of OR 213.3 2024-2028 \$ 150,000 Medium N/A 100% Install an enhanced pedestrian crossing at the OR TSP OR 213/Toliver Road<sup>1</sup> P27 213/Toliver Road intersection.<sup>3</sup> 2024-2028 150,000 150,000 Medium N/A 100% Install an enhanced pedestrian crossing at the OR P28 TSP OR 211/Hezzie Lane 211/Hezzie Lane intersection.<sup>3</sup> 2019-2023 N/A 100% Ś 150,000 High Y Install an enhanced pedestrian crossing at the OR P29 TSP OR 211/Molalla Forest Road 211/Molalla Forest Road intersection. 2019-2023 N/A 100% 150,000 High Ś Install an enhanced pedestrian crossing at the OR P30 TSP OR 211/Grange & Berkeley Avenues<sup>1</sup> 211/Grange Avenue/Berkley Avenue intersection.<sup>3</sup> 2024-2028 N/A 100% 150,000 Medium v Ś Install an enhanced pedestrian crossing at the OR 211/Cole P31 TSP OR 211/N. Cole Avenue<sup>1</sup> Avenue intersection.3 2019-2023 High N/A v 100% 150,000 Install an enhanced pedestrian crossing at the OR P32 TSP OR 211/Stowers Road<sup>1</sup> 211/Stowers Road intersection.<sup>3</sup> 2024-2028 150,000 Medium N/A 100% Ś Install curb extensions with American's with Disabilities Act TSP (ADA) accessible curb ramps with tactile warning strips on P33 OR 211/Metzler Avenue<sup>1</sup> the north and south sides of the roadway. 2024-2028 N/A 100% \$ 150,000 Medium Install an enhanced pedestrian crossing at the Toliver P34 TSP Toliver Road/Industrial Way Road/Industrial Way intersection.<sup>3</sup> 2024-2028 Medium N/A 100% 50,000 50,000 Ś Install an enhanced pedestrian crossing at the Toliver TSP P35 Toliver Road/7immerman Lane Road/Zimmerman Lane intersection. 2029-2038 50,000 50,000 N/A 100% Low Install an enhanced pedestrian crossing at the Toliver P36 TSP Toliver Road/Lerov Avenue Road/Leroy Avenue intersection.<sup>3</sup> 2024-2028 Medium N/A 100% 50,000 50,000 Ś Install an enhanced pedestrian crossing at the Toliver P37 TSP Toliver Road/Ridings Avenue Road/Ridings Avenue intersection.<sup>3</sup> 2024-2028 Medium N/A v 100% 50,000 50,000 Install and enhanced pedestrian crossing at the Toliver P38 TSP Toliver Road/Kennel Avenue Road/Kennel Avenue intersection.<sup>3</sup> 2024-2028 Medium N/A 100% 50,000 50,000 Install an enhanced pedestrian crossing at the Leroy P39 TSP Leroy Avenue/Heintz Street Avenue/Heintz Street intersection. 2029-2038 Low N/A 100% 50,000 50,000 Install an enhanced pedestrian crossing at the E 5th 5th Street/May Street P40 TSP Street/May Street intersection.<sup>3</sup> 2029-2038 N/A 100% 50,000 50,000 Low Install an enhanced pedestrian crossing at the E 5th P41 TSP E 5th Street/Stowers Road Street/Stowers Road intersection.<sup>3</sup> 100% 50,000 50,000 2029-2038 Low N/A

#### Table 9- 2018 Transportation System CIP (Continued)

2019 City of Molalla SDC Methodology Update 24

			2018 Transportati	on Capital Improve	ment Plan							
									SDC			
2018 CIP							Master		Funding			
Project	Project			New Priority Year	New Priority Yea	r New Priority Year	Plan		Eligible	SDC Share	2018 Master	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost Est.	SDC Eligible Cost
			Pedest	rian Proje	cts							
Off-Stre	eet Imr	provements										
P42	TSP	Molalla Forest Road	Install a shared-use path along the former Molalla Forest Road right-of-way from Toliver Road to OR 211.		2024-2028		Medium	N/A	Y	100%	\$ 720,000	\$ -
P43	TSP	Molalla Forest Road	Install a shared-use path along Molalla Forest Road from Of 211 to Mathias Road. <sup>4</sup>	R		2029-2038	Low	N/A	Y	100%	ś -	s -
P44	TSP	Molalla Western Railway Spur	Install a shared-use path along the former Molalla Western Railway Spur right-of-way from the north city limits to OR 211.	_		2029-2038	Low	N/A	Y	100%	\$ 1.965.000	\$ -
					3	1 2020 2000 1				Subtotal Hig	h Priority Costs	\$ 7,305,000
									Sub	total Mediu	m Priority Costs	\$ 10,020,000
										Subtotal Lo	w Priority Costs	\$ 3,680,000
									Subto	tal Program	Costs (22 Years)	\$ 21,005,000
									Subtotal	SDC Eligible	Costs (22 Years)	\$ 7,457,509
1. Broject	will roquir	re coordination with ODOT and annro	wal from the State or Perional Traffic Engineer									
2 Street li	abting wil	I require an intergovernmental agreer	ment (IGA) with the City for maintenance									
2. Street ing	sitting win	anced crossing treatments are to be de	atermined at the design /implementation stage									
5. The type	.s or ennar	inced crossing treatments are to be det	termined at the design/implementation stage.									

4. Project cost included in Motor Vehicle Plan.

	2018 Transportation Capital Improvement Plan											
									SDC			
2018 CIP							Master		Funding			
Project	Project			New Priority Yea	r New Priority Year	r New Priority Year	Plan		Eligible	SDC Share	2018 Master	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost Est.	SDC Eligible Cost
			Bicyc	le Project	s							
Arteria	l Street	Improvements	<b>_</b>									
		•	Install buffered bike lanes on both sides of the roadway						1			
B1	TSP	OR 2131	from the north city limits to OR 211. <sup>3</sup> (West Side 3.485 LF.									
			East Side 1,820 LF)		2024-2028		Medium	N/A	Y	66%	\$ -	\$ -
			Install buffered bike lanes on both sides of the roadway								· · · · · · · · · · · · · · · · · · ·	
B2	TSP	OB 2131	from OR 211 to the south city limits. <sup>3</sup> (West Side 1.545 LF.									
			East Side 1,705 LF)			2029-2038	Low	N/A	Y	82%	\$ -	\$ -
			Install buffered bike lanes on both sides of the roadway					· · · · ·			· · · · · · · · · · · · · · · · · · ·	
B3	TSP	OR 2111	from the west city limits to OR 213. <sup>3</sup> (North Side 1.185 LF.									
		-	South Side 540 LF)			2029-2038	Low	N/A	Y	68%	Ś -	s -
			Install buffered bike lanes on both sides of the roadway									
B4	TSP	OR 2111	from OR 213 to Shaver Avenue. <sup>3</sup> (North Side 5.095 LF. South									
		-	Side 5,130 LF)		2024-2028		Medium	N/A	Y	77%	\$ -	\$ -
			Install priority shared-lane pavement markings (super									
DE	тер	0.0.0.0.1	sharrows) and signs on both sides of the roadway from									
60	158	OR 211	Shaver Avenue to Fenton Avenue. (North Side 2,370 LF, South	n								
			Side 2,370 LF)	2019-2023			High	N/A	Y	100%	\$ 15,000	\$ -
			Install buffered bike lanes on both sides of the roadway									
B6	TSP	OR 211 <sup>1</sup>	from Fenton Avenue to Mathias Road (Striping only). (North									
			Side 5,600 LF, South Side 5,600 LF)	2019-2023			High	N/A	Y	100%	\$ 5,000	\$ -
			Install buffered bike lanes on both sides of the roadway									
B7	TSP	OR 211	from Mathias Road to the east city limits. <sup>3</sup> (North Side 1,805	5								
			LF, South Side 1,805 LF)		2024-2028		High	N/A	Y	100%	\$ -	\$-
			Install bike lanes on both sides of the roadway from the									
B8	TSP	N Molalla Avenue	north city limits to Heintz Street. (West Side 2,320 LF, East									
			Side 2,720 LF)			2029-2038	Low	N/A	Y	100%	\$ 855,000	\$ 855,000
			Install shared-lane pavement marking (sharrows) and signs									
B9	TSP	N Molalla Avenue	on both sides of the roadway from Heintz Street to OR 211.									
			(West Side 1,370 LF, East Side 1,370 LF)			2029-2038	Low	N/A	Y	100%	\$ 20,000	\$ 20,000
<b>D10</b>	TCD	Charlelle Avenue	Install shared-lane pavement marking (sharrows) and signs									
BIO	15P	S Molalla Avenue	on both sides of the roadway from OR 211 to 5th Street.			2020 2028	Low	NI/A	v	100%	ć 10.000	ć 10.000
			(west side 1,340 LF, East Side 1,340 LF)		1	2029-2038	LOW	N/A	Y	100%	> 10,000	φ 10,000
B11	тер	S Molalla Avenue	Street to the south city limits (West Side 1 370 F East Side									
DII	135	S Worand Avenue	1 370 LF)		2024-2028		Medium	N/A	v	100%	\$ 520.000	\$ 520,000
L	L		1,570 ET J	1	2024-2020	1	{ incuruiti	11/7	1 1	1 100/0	- 520,000	1.2 520,000

			2018 Transportation	on Capital Improve	ement Plan							
									SDC			
2018 CIP							Master		Funding			
Project	Project			New Priority Year	New Priority Year	r New Priority Year	Plan		Eligible	SDC Share	2018 Master	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost Est.	SDC Eligible Co
Collect	or Stree	et Improvements										
		· ·	Install bike lanes on both sides of the roadway from the	1	1	1						
B12	TSP	Toliver Road	west city limits to OR 213. (North Side 1,960 LF, South Side									
			1,960 LF)	2019-2023			High	N/A	Y	100%	\$ 815,000	J \$ 815,00
			Install bike lanes on both sides of the roadway from OR 213									
B13	TSP	Toliver Road	to Zimmerman Lane. (North Side 2,260 LF, South Side 2,260									
			LF)	2019-2023			High	N/A	Y	100%	\$ 930,000	) \$ 930,0r
	1	1	Install bike lanes on both sides of the roadway from N	1	1	1						
B14	TSP	Shirley Street	Molalla Avenue to OR 211. <sup>3</sup> (North Side 4,730 LF, South Side									
			4.730 LF)		2024-2028		Medium	N/A	Y	100%	Ś -	Ś -
	1	1	Install bike lanes on both sides of the roadway from OR 211	1	1	1		· · · · ·	1		-	
B15	TSP	Mathias Road	to the south city limits. <sup>3</sup> (West Side 2.845 LF. East Side 2.83)	)								
			LF)			2029-2038	Low	N/A	Y	100%	Ś -	Ś -
		1									- <del>-</del>	
B16	TSP	Lerov Avenue	Install bike lanes on both sides of the roadway from Toliver									
			Road to OR 211 <sup>3</sup> (West Side 1 980 LE East Side 1 980 LE)		2024-2028		Medium	N/A	Y	100%	¢ -	s -
			Install bike lanes on the south side of the	1							<u> </u>	
			roadway from May Street to Eckerd Avenue and on both									
B17	TSP	E 5th Street	sides from Stowers Road to Mathias Road (Striping only).									
			(North Side 720 LF. South Side 1.595 LF)		2024-2028		Medium	N/A	Y	100%	\$ 5.000	) \$ 5.0r
	1	1	Install bike lanes on both sides of the roadway from Hart	1		1		· · · · · ·	1			
B18	TSP	W 5th Street	Street to S Molalla Avenue (Striping only). (North Side 600									
-	-		LF, South Side 600 LF)		2024-2028		Medium	N/A	Y	100%	\$ 5,000	) \$ 5,0r
			Install shared-lane pavement markings sharrows) and signs	1	1	1		· · · · ·			<u> </u>	1
B19	TSP	Ridings Avenue	on both sides of the roadway from Toliver Road to OR 211.									
			(West Side 1,985 LF, East Side 1,985 LF)			2029-2038	Low	N/A	Y	100%	\$ 15,000	) \$ 15,0r
	1		Install shared-lane pavement markings (sharrows) and signs		1	1			1			
B20	TSP	Cole Avenue	on both sides of the roadway from Frances Street to OR 211									
			(West Side 2,300 LF, East Side 2,300 LF)			2029-2038	Low	N/A	Y	100%	\$ 20,000	J \$ 20,00
			Install shared-lane pavement markings (sharrows) and signs									
B21	TSP	Frances Street	on both sides of the roadway from N Molalla Avenue to Cole									
			Avenue. (North Side 2.230 LF. South Side 2.230 LF)			2029-2038	Low	N/A	Y	100%	\$ 15,000	ງ \$ 15,00

	2018 Transportation Capital Improvement Plan											
									SDC			
2018 CIP							Master		Funding			
Project	Project	Dura is at Name		New Priority Year	New Priority Year	New Priority Year	Plan	L a se antila	Eligible	SDC Share	2018 Master	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost Est.	SDC Eligible Cost
Neighb	orhood	Street Improvements										
B22	TSP	Meadow Drive	Install shared lane pavement markings (sharrows) and signs									
			on both sides of the roadway from OR 213 to Meadowlawn									
			Place. (North Side 3,580 LF, South Side 3,580 LF)			2029-2038	Low	N/A	Y	100%	\$ 25,000	\$ 25,000
			Install shared lane pavement markings (sharrows) and signs									
B23	TSP	Village Drive	on both sides of the roadway from Meadowlawn Place to									
			Toliver Road. (West Side 775 LF, East Side 775 LF)			2029-2038	Low	N/A	Y	100%	\$ 10,000	\$ 10,000
			Install shared lane pavement markings (sharrows) and signs									
B24	TSP	Thunderbird Street	on both sides of the roadway from N Molalla Avenue to									
			Bronco Avenue. (North Side 505 LF, South Side 505 LF)			2029-2038	Low	N/A	Y	100%	\$ 10,000	\$ 10,000
B25	TSP	Bronco Avenue	Install shared lane pavement markings (sharrows) and signs									
025	131	biolico Avende	on both sides of the roadway from Thunderbird Street to									
			Toliver Drive. (West Side 330 LF, East Side 330 LF)			2029-2038	Low	N/A	Y	100%	\$ 5,000	\$ 5,000
			Install shared lane pavement markings (sharrows) and sign									
B26	TSP	Toliver Drive	on both sides of the roadway from Bronco Avenue to Toliver									
			Road. (West Side 1,070 LF, East Side 1,070 LF)			2029-2038	Low	N/A	Y	100%	\$ 10,000	\$ 10,000
			Install shared lane pavement markings (sharrows) and signs									
B27	TSP	Kennel Avenue	on both sides of the roadway from Toliver Road to OR 211.									
			(West Side 2,010 LF, East Side 2,010 LF)			2029-2038	Low	N/A	Y	100%	\$ 15,000	\$ 15,000
			Install bicycle boulevard treatments, including shared lane									
0.00	тер	Haintz Street	pavement markings (sharrows) and signs on both sides of									
020	1.5	lientz Street	the roadway from N Molalla Avenue to Cole Avenue. (North									
			Side 2,235 LF, South Side 2,235 LF)		2024-2028		Medium	N/A	Y	100%	\$ 15,000	\$ 15,000
			Install shared lane pavement markings (sharrows) and signs									
B29	TSP	Center Avenue	on both sides of the roadway from Heintz Street to OR 211.									
			(West Side 1,330 LF, East Side 1,330 LF)			2029-2038	Low	N/A	Y	100%	\$ 10,000	\$ 10,000
			Install shared lane pavement markings (sharrows) and signs									
<b>D</b> 20	TCD	Industrial May	on both sides of the roadway from Toliver Road to the									
650	1.5P		southern roadway terminus. (West Side 880 LF, East Side									
			880 LF)			2029-2038	Low	N/A	Y	100%	\$ 5,000	\$ 5,000
B31	тер	Industrial Way	Install shared lane pavement markings (sharrows) and signs									
031	1.5		on both sides of the roadway from the northern roadway									
			terminus to OR 211. (West Side 325 LF, East Side 325 LF)			2029-2038	Low	N/A	Y	100%	\$ 5,000	\$ 5,000
			Install shared lane pavement markings (sharrows) and signs									
B32	TSP	Stowers Road	on both sides of the roadway from OR 211 to E 7th Street.									
	L		(West Side 2,125 LF, East Side 2,125 LF)			2029-2038	Low	N/A	Y	100%	\$ 15,000	\$ 15,000
			Install shared lane pavement markings (sharrows) and signs									
B33	TSP	E 7th Street	on both sides of the roadway from Stowers Road to Mathias									
1			Road. (North Side 715 LF, South Side 715 LF)			2029-2038	Low	N/A	Y	100%	\$ 5,000	\$ 5,000

	2018 Transportation Capital Improvement Plan											
									SDC			
2018 CIP	Duciest			N Dui anita Mara	N. Dei erite Maare	N Drivit Vera	Master		Funding	CDC Chann	2010 14-14-1	
Project	Project	Project Name	Broject Description	New Priority rear	New Priority Year	New Priority Year	Plan	Longth	Eligible	SDC Share	2018 Master	SDC Eligible Cos
Number	Source		Project Description	2019-2025	2024-2028	2029-2038	Priority	Lengui	(Y/N)	70	Plan Cost est.	SDC Eligible Cos
Local St	reet Im	iprovements		1		·	<b>1</b>	r				
			Install bicycle boulevard treatments, including snared iane								-	
B34	TSP	Heintz Street	pavement markings (sharrows) and signs on both sides or									
			the roadway from Leroy Avenue to N Molalia Avenue. (North		2024 2028		Modium	N/A	v	100%	¢ 25.000	25.00
linteree			Side 3,200 LF, South Side 3,200 LFJ	1	2024-2028	I	Medium	N/A	T	100%	\$ 25,000	\$ 25,000
Intersec	tion in	hprovements		7	1	7	1	r			1	
B35	TSP	OR 213/Meadow Drive. <sup>1</sup>	Install an enhanced bicycle crossing at the UR 213/Meadow									
	-		Drive Intersection. <sup>2</sup>	2019-2023		ļ	High	N/A	Y	100%	\$ 20,000	; \$ -
B36	TSP	OP 213/Toliver Road <sup>1</sup>	Install an enhanced bicycle crossing at the OR 213/Toliver				1	1			-	
	1.5.	UN 213/10/14/1 Houd.	Road intersection. <sup>2</sup>	2019-2023		ļ!	High	N/A	Y	100%	\$ 20,000	\$ 20,000
B37	TSD	OP 212/OP 211 <sup>1</sup>	Install skip striping along OR 213 and OR 211 through the					1				
037	1.55	UR 213/UR 211.	intersection. <sup>2</sup>	2019-2023			High	N/A	Y	100%	\$ 20,000	1\$ -
020	тер		Install skip striping along OR 211 and consider other						T	T		
030	135	OR 211/Ona way	enhanced crossing treatments when signalized. <sup>2</sup>	2019-2023			High	N/A	Y	100%	\$ 20,000	ı ş -
<b>D</b> 20	TSP OR	00.211/	Install skip striping along OR 211 and consider other									
839	125	DR 211/Leroy Avenue <sup>1</sup>	enhanced crossing treatments when signalized. <sup>2</sup>	2019-2023			High	N/A	Y	100%	\$ 20,000	\$ 20,000
<b>D</b> 40	TCD	1	Install skip striping along OR 211 and consider other									
B40	158	OR 211/Ridings Avenue	enhanced crossing treatments when signalized. <sup>2</sup>		2024-2028		Medium	N/A	Y	100%	\$ 20,000	ı ş -
			Install an enhanced bicycle crossing at the N Molalla									1
B41	TSP	N Molalla Avenue/Toliver Road	Avenue/Toliver Road intersection – coordinate with project				į				-	
			B41. <sup>2</sup>		2024-2028		Medium	N/A	Y	100%	\$ 15,000	) \$ 15,000
		1	Install an enhanced bicycle crossing at the N Molalla		1			I	1			1
B42	TSP	N Molalla Avenue/Shirley Street	Avenue/Shirley Street intersection – coordinate with project									
			B40. <sup>2</sup>		2024-2028		Medium	N/A	Y	100%	\$ 15,000	) \$ 15,000
			Install an enhanced bicycle crossing at the N Molalla						1	1		1
B43	TSP	N Molalla Avenue/Heintz Street	Avenue/Heintz Street intersection. <sup>2</sup>		2024-2028		Medium	N/A	Y	100%	\$ 15,000	) \$ 15,000
		1	Install an enhanced bicycle crossing at the S Molalla	1					+		÷ .	
B44	TSP	S Molalla Avenue/5th Street	Avenue/5th Street intersection. <sup>2</sup>		2024-2028		Medium	N/A	Y	100%	\$ 15,000	\$ 15,000
									·*	Subtotal Hig	sh Priority Cost	s \$ 1,865,000
									Sub	total Mediu	m Priority Cost	s\$ 650,000
										Subtotal Lo	w Priority Cost	s\$ 1,050,000
									Subto	tal Program	Costs (22 Years	.)\$ 3,565,000
									Subtotal	SDC Eligible	Costs (22 Years	)\$ 3,465,000
1 Broject v		- coordination with ODOT and approx	wel from the State or Perional Troffic Engineer									
2. The type	s of enhar	nced crossing treatments are to be de	etermined at the design/implementation stage.									

3. Project cost included in Motor Vehicle Plan.

	2018 Transportation Capital Improvement Plan												
									SDC				
2018 CIP							Master		Funding				
Project	Project			New Priority Year	New Priority Year	New Priority Year	Plan		Eligible	SDC Share	2018 N	/laster	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Co	st Est.	SDC Eligible Cost
			Trans	sit Project	s								
			Coordinate with SCTD to increase the frequency of morning										
T1 <sup>2</sup>	TSP	City-wide	and evening peak hour service on the Canby and CCC										
			Buses. <sup>1</sup>		2024-2028		Medium	N/A	Y	0%	\$	-	\$-
T2 <sup>2</sup>	TCD	City wide	Coordinate with SCTD to increase the hours of service on the	2									
12	1 SP	City-wide	Canby Bus. <sup>1</sup>		2024-2028		Medium	N/A	Y	0%	\$	-	\$ -
702	TCD	Cite unide	Coordinate with SCTD to reconfigure the Molalla City Bus to										
13	1 SP	City-wide	increase service coverage in the northeast and southeast										
			parts of the city and increase the efficiency of the route. <sup>1</sup>		2024-2028		Medium	N/A	Y	0%	\$	-	\$-
та	TCD	OP 212 (Maaday Drive (parthhound)	Relocate existing sign to south side of the intersection to										
14	135	OR 213/Weadow Drive (northbodild)	increase the visibility of the stop.		2024-2028		Medium	N/A	Y	0%	\$	5,000	\$-
т5	тср	OR 213/Toliver Road	Install bus stops at the far side of the northbound and										
15	1.51		southbound approaches to the intersection.		2024-2028		Medium	N/A	Y	0%	\$	10,000	\$-
тө	TSP	OR 211/OR 213 (eastbound)	Install a shelter within the public right of way or obtain an										
10	131		easement from the adjacent property owner.		2024-2028		Medium	N/A	Y	0%	\$	50,000	\$-
Т7	TSP	OR 211/Lerov Avenue (easthound)	Install a bus stop sign on the east side of the intersection to										
	131		increase the visibility of the stop.		2024-2028		Medium	N/A	Y	0%	\$	5,000	\$-
т8	TSP	OR 211/Kennel Avenue (eastbound)	Install a bus stop sign on the east side of the intersection to										
		,	increase the visibility of the stop.		2024-2028		Medium	N/A	Y	0%	\$	5,000	\$ -
		Meadow Drive/Meadowlawn Place/Toliver	Provide designated transit stop between OR 213 and Kennel										
Т9	TSP	Road	Avenue (Seven potential stop locations are shown for										
			illustrative purposes).		2024-2028		Medium	N/A	Y	0%	\$	35,000	ş -
			Identify the location for a new parkand-ride within the city										
110	TSP	City-wide	(the existing parking and ride is shown for illustrative										
			purposes).		2024-2028		Medium	N/A	Y	0%	Ş	50,000	Ş -
									~ .	Subtotal Hig	h Priorit	y Costs	ş -
									Sub	total Mediu	m Priorit	y Costs	\$ 160,000
									Cult-	Subtotal Lo	w Priorit	y Costs	> -
									Subtotal	SDC Eligible	Costs (22	2 rears) 2 Voars)	\$ 160,000 \$ -
									Jublola	SPC Fuginie	CU313 (22	- rears	÷ -
1. Project t	o be fund	ed by others.											
2. Project n	not shown	on map.											

2018 Transportation Capital Improvement Plan												
									SDC			
2018 CIP							Master		Funding			
Project	Project			New Priority Year	New Priority Year	r New Priority Year	Plan		Eligible	SDC Share	2018 Master	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost Est.	SDC Eligible Cost
			Transportation Syste	em Mana	gement F	Projects						
Update signal timing plans and coordinate signals to better												
TCM	TCD	Circuit Curtary Incompany	match prevailing traffic conditions; implementing adaptive									
ISIVIT	15P	Signal System improvements	or active signal control, traffic responsive control, and/or									
			truck signal priority.	2019-2023			High	N/A	Y	100%	\$ 25,000	\$ -
			Update signal timing plans and coordinate signals to better									
TCMA1	TCD	Cignal Custom Improvements	match prevailing traffic conditions; implementing adaptive									
I SIVIT	138	signal system improvements	or active signal control, traffic responsive control, and/or									
			truck signal priority.		2024-2028		Medium	N/A	Y	100%	\$ 25,000	\$ -
			Update signal timing plans and coordinate signals to better						1			
TCN/1	тер	Signal System Improvements	match prevailing traffic conditions; implementing adaptive									
1 21/11	135	Signal System improvements	or active signal control, traffic responsive control, and/or									
			truck signal priority.			2029-2038	Low	N/A	Y	100%	\$ 45,000	\$ -
			Work with mobile and web applications to increase									
			information on traffic and road conditions, general public									
TSM2	TSP	Real-Time Traveler Information	transportation and parking information, interruptions due to									
			roadway incidents, maintenance, construction, and weather									
			conditions.		2024-2028		Medium	N/A	Y	0%	TBD	\$ -
			Work with transit agencies or third-party sources to									
			disseminate schedule and system performance information									
TEMP	тер	Real Time Travelor Information	to travelers through a variety of applications, such as in-									
1 31013	135	Real-fille fraveler momation	vehicle, wayside, in-terminal dynamic message signs, live									
			schedule arrival boards, as well as the internet or wireless									
			devices.		2024-2028		Medium	N/A	Y	0%	TBD	\$ -
										Subtotal Hig	h Priority Costs	\$ 25,000
									Sub	total Mediu	m Priority Costs	\$ 25,000
										Subtotal Lo	w Priority Costs	\$ 45,000
1									Subto	tal Program	Costs (22 Years)	\$ 95,000
									Subtotal	SDC Eligible	Costs (22 Years)	ş -

2018 Transportation Capital Improvement Plan												
									SDC			
2018 CIP							Master		Funding			
Project	Project			New Priority Yea	New Priority Year	r New Priority Year	Plan		Eligible	SDC Share	2018 Master	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cost Est.	SDC Eligible Cost
			Transportation Dem	and Mana	agement	Projects						
			Coordinate rideshare/carpool programs to allow regional									
TDM1	TSP	Carpool Match Services Service	commuters to find other commuters with similar routes to									
			work.	2019-2023			High	N/A	Y	0%	\$ 25,000	\$ -
			Coordinate rideshare/carpool programs to allow regional									
TDM1	TSP	Carpool Match Services Service	commuters to find other commuters with similar routes to									
			work.		2024-2028		Medium	N/A	Y	0%	\$ 25,000	\$ -
			Coordinate rideshare/carpool programs to allow regional									
TDM1	TSP	Carpool Match Services Service	commuters to find other commuters with similar routes to									
			work.			2029-2037	Low	N/A	Y	0%	\$ 45,000	\$ -
			Work with nearby cities, employers, transit service									
TDM2	тср	Collaborative Marketing	providers, and developers to collaborate on marketing for									
I DIVIZ	1 Jr		transportation options that provide an alternative to single-									
			occupancy vehicles.	2019-2023			High	N/A	Y	0%	\$ 25,000	\$ -
			Work with nearby cities, employers, transit service									
TDM2	TSP	Collaborative Marketing	providers, and developers to collaborate on marketing for									
TOWN	151	Conaborative marketing	transportation options that provide an alternative to single-									
			occupancy vehicles.		2024-2028		Medium	N/A	Y	0%	\$ 25,000	\$ -
			Work with nearby cities, employers, transit service									
TDM2	TSP	Collaborative Marketing	providers, and developers to collaborate on marketing for									
10112	101		transportation options that provide an alternative to single-									
			occupancy vehicles.			2029-2037	Low	N/A	Y	0%	\$ 45,000	\$ -
TDM3	TSP	Limited and/or Flexible Parking	Update the Molalla Municipal Code to limit and/or allow for									
		Requirements	flexible parking requirements.		2024-2028		Medium	N/A	Y	0%	\$ 25,000	\$ -
			Develop a parking management plan for downtown Molalla									
TDM4	TSP	Parking Management	to impose time limits in commercial areas and allow for the									
			potential to charge for parking.		2024-2028		Medium	N/A	Y	0%	\$ 25,000	\$ -
										Subtotal Hig	h Priority Cost	\$ 50,000
									Sub	total Mediu	m Priority Cost	\$ 100,000
										Subtotal Lo	w Priority Cost	\$ 90,000
									Subto	tal Program	Costs (22 Years	1 <b>5 240,000</b>
									Subtotal	SDC Eligible	Costs (22 Years	· > -

#### 2018 Transportation Capital Improvement Plan SDC 2018 CIP Master Funding New Priority Year New Priority Year New Priority Year Plan Eligible SDC Share 2018 Master Project Proiect Number Project Name Project Description 2019-2023 2024-2028 2029-2038 Priority (Y/N) Plan Cost Est. SDC Eligible Cost Source Length % Motor Vehicle Projects Arterial Street Improvements Widen OR 213 from the north city limits to OR 211 to M1 TSP OR 213<sup>1</sup> \$ 8,825,000 \$ provide a continuous 3-lane cross section. (2,140 LF) 2024-2028 Medium N/A γ 49% Widen OR 213 from OR 211 to the south city limits to M2 TSP OR 213<sup>1</sup> provide a continuous 3-lane cross section. (2,050 LF) 2029-2038 N/A Y \$ 4,335,000 \$ Low 72% Widen OR 211 from the west city limits to OR 213 to provide M3 TSP OR 211<sup>1</sup> a continuous 3-lane cross section. (1.375 LF) 2029-2038 N/A Y 82% \$ 1.365.000 \$ Low Widen OR 211 from OR 213 to Shaver Avenue to provide a M4 TSP OR 211<sup>1</sup> continuous 3-lane cross section. (4,000 LF) 2024-2028 Medium N/A 70% \$ 14,505,000 \$ γ Widen OR 211 from Mathias Road to the east city limits to M5 TSP OR 211<sup>1</sup> provide a continuous 3-lane cross section. (2,500 LF) 2024-2028 N/A \$ 2,580,000 \$ Medium Υ 36% M6 TSP N Molalla Avenue Widen N Molalla Avenue from Toliver Road to Shirley Street to provide a continuous 3-lane cross section. (300 LF) 2029-2038 Low N/A Y 43% Ś 175,000 \$ 74,716 **Collector Street Improvements** Widen Leroy Avenue from Toliver Road to OR 211 to provide M7 TSP Leroy Avenue a continuous 2-lane cross section per City standards. (1,330 2029-2038 N/A γ 100% \$ 580,000 580,000 LF) Low Widen Mathias Road from OR 211 to the south city limits to Mathias Road M8 TSP 2029-2038 \$ 1,065,000 220,583 provide a continuous 3-lane cross section. (2,850 LF) N/A Y 21% I ow Widen Shirley Street from N Molalla Avenue OR 211 to M9 TSP Shirley Street provide a continuous 2-lane cross section per City standards. 2029-2038 Low N/A 100% \$ 1,345,000 1,345,000 Construct W 5th Street from Lowe Road terminus to Hart W 5th Street M10 TSP 2019-2023 \$ 2,845,000 \$ 2,845,000 Avenue. (2,400 LF) High N/A Y 100% Construct E 5th Street from Mathias Road to Feyrer Park 5 5th Street M11 TSP 100% Road. (1,000 LF) \$ 1,675,000 1,675,000 2029-2038 Low N/A Y Construct Leroy Avenue from OR 211 to Lowe Road (east). M15 TSP Leroy Avenue 2029-2038 N/A 100% \$ 1,170,000 1,170,000 (790 LF) Low γ Reconstruct and widen Lowe Road from OR 213 to Molalla M16 Lowe Road (west) TSP 4,170,000 Forest Road to City standards. (2,850 LF) 2029-2038 Low N/A Y 100% \$ 4,170,000 Reconstruct and widen Lowe Road from Molalla Forest Road M17 TSP Lowe Road (east) 3,265,000 to roadway terminus. (1,560 LF) 2029-2038 Low N/A v 100% \$ 3,265,000 Reconstruct and widen Molalla Forest Road as a concrete street from OR 211 to Mathias Road to provide a continuous M18 Molalla Forest Road TSP 3-lane cross section. (9,450 LF) 2029-2038 N/A v 100% \$ 10,740,000 \$ 10,740,000 Low Neighborhood Street Improvements M12 TSP Affolter Avenue Construct Affolter Avenue from southern terminus to Frances \$ 1,130,000 \$ Street and from Miller Street to north city limits. (425 LF) 2029-2038 Low N/A Υ 100% 1,130,000 Construct Commercial Way from the roadway terminus to M13 TSP Commercial Way Lowe Road (west). (680 LF) 2029-2038 Low N/A Y 100% Ś 365,000 365,000 Construct Hezzie Lane from the southern roadway terminus M14 TSP Hezzie Lane to the northern roadway terminus. (1,790 LF) 2029-2038 N/A Y 100% \$ 1,180,000 \$ 1,180,000 Low

			2018 Transportatio	on Capital Improve	ment Plan							
									SDC			
2018 CIP	Declarat					- Now Driesity Voor	Master		Funding		2010 Master	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	SDC Share	Plan Cost Est	SDC Fligible Cost
Interse	ction In	nprovements		2013 2023	20212020	2023 2030	Thomy	Lengen	(.,,	70	Than Cost Est.	SD C Englisic Cost
inter se		iprovements	Reconfigure the intersection to provide a center two-way	1	1	T			1	1	1	1
M19	TSP	OR 213/Meadow Road <sup>1</sup>	left-turn lane along OP 212 – coordinate with Project M1 <sup>1</sup>		2024-2028		Medium	N/A	v	26%	¢ .	ć .
			Widen OR 213 to provide a separate left-turn lane at the	+	2024-2028	+	Wedium	11/4	<u> </u>	30/8		
			northbound and southbound approaches and install a traffic									
			signal with protected or protected-permitted phasing when									
M20-1	TSP	OR 213/Toliver Road	warranted - Coordinate with Project M1, the signal should									
			be designed to accommodate potential for separate left-turn	1								
			lanes along Toliver Road. <sup>2</sup>	2019-2023			High	N/A	Y	46%	\$ 3,500,000	\$ 1,597,934
			Widen Toliver Road to provide separate left-turn lanes at									
M20-2	TSP	OR 213/Toliver Road <sup>1</sup>	the eastbound and westbound approaches and modify the									
			traffic signal to provide permitted phasing. <sup>2</sup>			2029-2038	Low	N/A	<u>Y</u>	46%	\$ 850,000	\$ 388,070
M21	TSP	OR 213/OR 211 <sup>1</sup>	Install a separate right-turn lane at the southbound									
			approach if/when adjacent property redevelops. <sup>2</sup>			2029-2038	Low	N/A	Y	67%	\$ 150,000	\$ -
			Widen OR 211 to provide a westbound left-turn lane and									
M22	TSP	OR 211/Ona Way <sup>1</sup>	install a traffic signal when warranted – Coordinate with									
			Project M4. <sup>2</sup>			2029-2038	Low	N/A	Y	58%	\$ 1,000,000	\$ -
	TCD		Widen OR 211 to provide an eastbound left-turn lane and									
IVI23	TSP	OR 211/Leroy Avenue*	Install a traffic signal when warranted – Coordinate with			2020 2020				5.40/	¢ 4 000 000	¢ 542.422
			Project M4.			2029-2038	Low	N/A	Y Y	54%	\$ 1,000,000	\$ 542,422
M24	TSP	OR 211/Ridings Avenue <sup>1</sup>	Widen OR 211 to provide an eastbound left-turn lane –			2020 2020				1000	A	<i>*</i>
			Loordinate with Project M4.			2029-2038	LOW	N/A	Y	46%	<u> &gt;</u> -	
M25	TSP		westhound approaches and a traffic signal with protected or									
WI25	151		protected permitted phasing when warranted <sup>2</sup>	2019-2023			High	N/A	v	57%	\$ 750.000	\$ 427.266
			protected permitted plassing when warranted.	2015 2025				19/5	<u> </u>	5770		
M26	TSP	OR 211/Mathias Road <sup>1</sup>	Install a roundabout when warranted <sup>2</sup>			2029-2038	Low	N/A	Y	33%	\$ 2,500,000	¢ -
			Widen N Molalla Avenue to provide a center two-way left-	+		2025 2050	LOW	19/5	<u> </u>	5570	÷ 2,500,000	
	TCD		turn lane along N Molalla Avenue and install an eastbound									
IVI27	TSP	N Molalla Avenue/Tollver Road	right-turn lane when warranted – coordinate with Project									
			M5.			2029-2038	Low	N/A	Y	38%	\$ 150,000	\$ 56,402
			Widen N Molalla Avenue to provide a center two-way left-								1	
M28	TSP	N Molalla Avenue/Shirley Street	turn lane along N Molalla Avenue and install a westbound									
			right-turn lane when warranted – coordinate with Project									
			Miden N Melalla Avenue to provide a conter two way left			2029-2038	Low	N/A	<u>ү</u>	5/%	Ş 150,000	\$ 85,381
M20	тср	N Molalla Avenue/Heintz Street	turn lane along N Molalla Avenue and reconfigure the									
1012.5	1 JF	N Wolana Avenue/Heiniz Street	intersection as an all-way stop	2019-2023			High	N/A	Y	49%	\$ 40.000	\$ 19751
			Widen S Molalla Avenue to provide a center two-way left-	1015 2025				,	· · ·		÷ .0,000	¢ 10,701
M30	TSP	S Molalla Avenue/E 5th Street	turn lane along S Molalla Avenue and reconfigure the									
			intersection as an all-way stop.	2019-2023			High	N/A	Y	100%	\$ 40,000	\$ 40,000
1421	тср											
10131	138	S Molalla Avenue/Molalla Forest Road	Install a roundabout when warranted.			2029-2038	Low	N/A	Y	100%	\$ 2,500,000	\$ 2,500,000
M22	тср	Feyrer Park Road/Mathias Road										
10132	1 JF		Install a roundabout when warranted.			2029-2038	Low	N/A	Y	100%	\$ 2,500,000	\$ 2,500,000
										Subtotal Hi	gh Priority Cost	\$ 7,175,000
									Sub	total Mediu	m Priority Cost	\$ 25,910,000
									Subto	tal Program	Costs (22 Years	\$ 43,360,000 \$ 76,445,000
									Subtotal	SDC Eligible	Costs (22 Years	\$ 36,917,524
1. Project v	will require	e coordination with ODOT and approval	from the State or Regional Traffic Engineer.									
2. Future e	valuation	may be required to determine the approved	opriate form of traffic control at this location.									
3. Project o	ost includ	led in Motor Vehicle Plan.	-									

	2018 Transportation Capital Improvement Plan												
									SDC				
2018 CIP							Master		Funding				
Project	Project			New Priority Year	New Priority Year	New Priority Year	Plan		Eligible	SDC Share	2018 Ma	aster	
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plan Cos	st Est.	SDC Eligible Cost
			Traffic Sa	afety Proj	jects								
			Widen OR 213 from north city limits to OR 211 to include a										
S1	TSP	OR 2131	center turn-lane, bike lanes, and sidewalks – Coordinate										
		-	with Project M1. <sup>3</sup>		2024-2028		Medium	N/A	Y	0%	\$		\$ -
			Widen OR 211 from OR 213 to Shaver Avenue to include a										
S2	TSP	OR 2111	center turn-lane, bike lanes, and sidewalks – Coordinate										
		-	with Project M4.3		2024-2028		Medium	N/A	Y	0%	\$		\$ -
			Widen OR 213 to provide separate left-turn lanes at the										
			north and southbound approaches and install a traffic signal										
S3	TSP	OR 213/Toliver Road <sup>1</sup>	with protected or protected-permitted phasing at the										
			northbound and southbound approaches when warranted -										
			Coordinate with Project M20. <sup>2,3</sup>	2019-2023			High	N/A	Y	0%	\$	-	\$ -
			Install flashing beacons on the advanced warning signs at										
64	TCD		all approaches and improve the signal hardware (i.e. lenses,										
54	1.5P	OR 213/OR 211	reflective back plates, size, and number) to improve the										
			visibility of the signal heads.	2019-2023			High	N/A	Y	0%	\$2	25,000	\$ -
			Install separate left-turn lanes at the eastbound and										
65	TCD		westbound approaches and a traffic signal with protected or										
55	ISP	OR 211/Molalla Avenue	protected/permitted phasing when warranted – Coordinate										
			with Project M25. <sup>2,3</sup>	2019-2023			High	N/A	Y	0%	\$	-	\$-
			Widen OR 211 to provide a separate left-turn lane at the										
S6	TSP	OR 211/Leroy Avenue <sup>1</sup>	eastbound approach and install a traffic signal with										
			protected or protected-permitted phasing at the eastbound										
			approach when warranted – Coordinate with Project M23. <sup>2,3</sup>			2029-2038	Low	N/A	Y	0%	\$	-	\$ -
S7	TSP	OR 211/Mathias Road <sup>1</sup>	Install a single lane roundabout. <sup>2,3</sup>			2029-2038	Low	N/A	Y	0%	\$	-	\$-
			Evaluate bicycle and pedestrian safety along OR 213, OR										
S8	TSP	City-wide <sup>1</sup>	211, Toliver Road, Molalla Avenue, and other key corridors										
			to identify appropriate counter measures.			2029-2038	Low	N/A	Y	0%	\$5	50,000	\$-
										Subtotal Hig	gh Priority	/ Costs	\$ 25,000
									Sub	total Mediu	m Priority	/ Costs	\$-
										Subtotal Lo	w Priority	/ Costs	\$ 50,000
									Subto	tal Program	Costs (22	Years)	\$ 75,000
									Subtotal	SUC Eligible	Costs (22	Years)	<u>ې</u> -
1. Project v	will require	e coordination with ODOT and approv	al from the State or Regional Traffic Engineer.										
2. Future e	valuation	may be required to determine the app	propriate form of traffic control at this location.										

3. Project cost included in Motor Vehicle Plan.

2018 Transportation Capital Improvement Plan														
SDC														
2018 CIP							Master		Funding					
Project	Project			New Priority Year	New Priority Year	New Priority Year	Plan		Eligible	SDC Share	201	8 Master		
Number	Source	Project Name	Project Description	2019-2023	2024-2028	2029-2038	Priority	Length	(Y/N)	%	Plar	Cost Est.	SDC Eligible	2 Cost
New Facilities and Master Plan Projects														
F1	Staff	Public Works Shops Facility (\$600K)	Construct new building to house vactor truck, street											
Γı	Juli		sweeper, crew shower/locker, crew and supervisor office.	2019-2023			High	N/A	Y	100%	\$	150,000	\$ 150	0,000
F2	Staff	Public Works Decant Facility (\$60K)	Construct new building to decant street sweeping and other											
12	50011		debris prior to disposal.	2019-2023			High	N/A	Y	100%	\$	30,000	\$ 30	0,000
MP1	Staff	Undate Transportation System Master Plan	Provide update to existing transportation system master											
1411 1	Jun	opute multiportation system muster multi	plan		2024-2028		Medium	N/A	Y	100%	\$	200,000	\$ 200	0,000
										Subtotal Hi	gh Pri	ority Costs	\$ 180,	),000
									Sub	total Mediu	ım Pri	ority Costs	\$ 200,	),000
										Subtotal Lo	ow Pri	ority Costs	\$	-
									Subto	tal Program	Costs	(22 Years)	\$ 380,	),000
	Subtotal SDC Eligible Costs (22 Years) \$ 380,00										),000			
TOTAL High Priority Costs \$ 16,625,000											5,000			
TOTAL Medium Priority Costs \$ 37,065,000											5,000			
TOTAL Low Priority Costs \$ 48,275,000												5,000		
									тот	AL Program	Costs	(22 Years)	\$ 101,965	5,000
	TOTAL SDC Eligible Costs (22 Years) \$ 48,220,033													

### **Transportation System Current and Future Demand**

#### **Existing Transportation Demand**

Demand for transportation facilities is measured in PM peak-hour vehicle trips (PM PHVTs). One PM PHVT represents one person beginning or ending a vehicular trip at a certain property during the afternoon rush hour. Based on data from both the U. S. Census Bureau and the Molalla Transportation System Plan Update (2018), we estimate that the transportation system is currently serving 9,315 PM PHVTs. The statistical process that was used to arrive at the current demand value is shown in Table 10.

				PM peak	Total PM
	Dwelling			hour vehicle	peak hour
	Units	Employees	ITE Code <sup>3</sup>	trips per unit	vehicle trips
Number of dwelling units: <sup>1</sup>					
Single Family Dethatched	2,519		210	1.00	2,519
Single Family Attached	443		230	0.52	230
Multifamily Dwelling Units	587		220	0.62	364
Subtotal dwelling units	3,549				3,113
Number of employees: <sup>2</sup>					
Agriculture, forestry		802	150	0.32	257
Construction		70	120	0.68	48
Manufacturing		378	140	0.73	276
Wholesale trade		98	110	0.97	95
Retail trade		493	826	2.71	1,336
Transportation and Warehousing		152	150	0.32	49
Information		43	160	0.09	4
Financial activities		137	750	1.48	203
Professional & business services		57	770	1.26	72
Education & health services		658	720	3.57	2,349
Leisure & hospitality		400	495	2.74	1,096
Other services		206	710	1.49	307
Government		92	730	1.21	111
Subtotal employees		3,586			6,202
Total PM peak hour vehicle trips					9,315

Table 10 - Existing Transportation System Demand

<sup>5</sup> Source: Angelo Planning; Population and Employment Forecast Methodology; March 21, 2018; Figure 7

<sup>5</sup> Source: Angelo Planning; Population and Employment Forecast Methodology; March 21, 2018; Figure 8

<sup>5</sup> Trip Generation Manual; Institute of Transportation Engineers; 9th Edition

#### **Forecasted EDUs**

We are estimating the City's transportation system will serve 13,288 PM PHVTs in 2040. These estimates imply growth of 3,973 PM PHVTs over the planning period, as shown in Table 11. The 2040 end date is

consistent with the planning period that was used for the 2018 Molalla Transportation System Plan. The principal sources for the forecast are:

- Angelo Planning; Population and Employment Forecast Methodology; March 21, 2018; Figures 7 and 8
- Trip Generation Manual; Institute of Transpiration Engineers; 9<sup>th</sup> Edition
- Kittelson & Associates Final Tech Memo 5; "Future Needs Analysis"; Table D-2; "Trip Generation Estimate, Weekday PM Peak Hour (Scenario 2)"

The growth forecast in PM PHVTs is shown in Table 11.

		Housing		E	mployment		PM Peak Hour Totals Scenario 2				
TAZ	In	Out	Total	In	Out	Total	In	Out	Total		
1	214	124	338	-	-	-	214	124	338		
2	167	98	265	-	-	-	167	98	265		
3	11	7	18	24	50	74	35	57	92		
4	-	-	-	58	121	179	58	121	179		
5	421	248	669	-	-	-	421	248	669		
6	48	27	75	51	107	158	99	134	233		
7	-	-	-	8	16	24	8	16	24		
8	200	116	316	-	-	-	200	116	316		
9	-	-	-	-	-	-	-	-	-		
10	21	13	34	-	-	-	21	13	34		
11	-	-	-	2	5	7	2	5	7		
12	-	-	-	115	242	357	115	242	357		
13	-	-	-	119	250	369	119	250	369		
14	59	32	91	117	245	362	176	277	453		
15	-	-	-	25	53	78	25	53	78		
16	-	-	-	-	-	-	-	-	-		
17	-	-	-	-	-	-	-	-	-		
18	67	37	104	122	256	378	189	293	482		
19	22	13	35	14	28	42	36	41	77		
	1,230	715	1,945	655	1,373	2,028	1,885	2,088	3,973		

#### Table 11 - Forecast of Future Transportation PM PHVTs

Source: Kittelson & Associates Final Tech Memo 5; "Future Needs Analysis"; Table D-2; "Trip Generation Estimate, Weekday PM Peak Hour (Scenario 2)"

### **Reimbursement Fee Calculations**

The transportation reimbursement fee methodology mirrors that used for the wastewater reimbursement fee. The methodological steps in its construction are restated here.

- Step 1: Calculate the original cost of transportation fixed assets in service. From this starting point, eliminate any assets that do not conform to the ORS 223.299 definition of a capital improvement. This results in the **adjusted original cost of transportation fixed assets**.
- Step 2: Subtract from the adjusted original cost of transportation fixed assets in service the accumulated depreciation of those fixed assets. This arrives at the **modified book value of transportation fixed assets in service**.
- Step 3: Subtract from the modified book value of transportation assets in service any grant funding or contributed capital. This arrives at the **modified book value of transportation fixed assets in service net of grants and contributed capital**.
- Step 4: Subtract from the modified book value of transportation fixed assets in service net of grants and contributed capital any principal outstanding on long term debt used to finance those assets. This arrives a **gross transportation reimbursement fee basis**.
- Step 5: Subtract from the gross transportation reimbursement fee basis the fund balance held in the Transportation Reimbursement SDC fund (if available). This arrives at the **net transportation reimbursement fee basis**.
- Step 6: Divide the net transportation reimbursement fee basis by the sum of existing and future PM PHVTs to arrive at the **unit net reimbursement fee**.

The actual data that was used to calculate the total transportation reimbursement fee is shown below in Table 12.

Utility Plant-in-Service (original cost): <sup>1</sup>	
Land, Easements & Right of Way	\$ 68,228
Land improvements	-
Construction	-
Infrastructure	20,744,076
Machinery and equipment	226,447
Licensed Vehicles	442,236
Construction Work-in-Progress	 -
Total Utility Plant-in-Service	21,480,987
Accumulated depreciation <sup>1</sup>	
Land, Easements & Right of Way	-
Land improvements	-
Construction	-
Infrastructure	12,851,843
Machinery and equipment	163,658
Vehicles	439,088
Construction Work-in-Progress	 -
Total accumulated depreciation	13,454,589
Book value of water utility plant-in-service @ June 30, 2015	8,026,398
Eliminating entries:	
Principal outstanding on bonds, notes, and loans payable	-
Developer Contributions	-
Grants, net of amortization	 -
	-
Net basis in utility plant-in-service available to serve future customers	\$ 8,026,398
Estimated existing and future pm peak hour vehicle trips	13,288
Transportation reimbursement fee per PM peak hour vehicle trip	\$769

Table 12 - Calculation of the Transportation Reimbursement Fee

Source: Molalla Accounting Summary Report - Capitalized Assets as of June 30, 2018

### **Improvement Fee Calculations**

The calculation of the transportation improvement fee also follows the logic that was used to calculate the wastewater improvement fee. As in the case of wastewater, this study continues to use the improvements-driven method, and has relied on the capital improvement plans, and plan updates for the transportation infrastructure. Under this methodology, only three steps are required to arrive at the improvement fee. These steps are:

- Step 1: Accumulate the future cost of planned improvements needed to serve growth. This arrives at **the gross improvement fee basis**.
- Step 2: Subtract from the gross improvement fee basis the fund balance held in the Transportation Improvement SDC Fund. This arrives at **the net transportation improvement fee basis**.
- Step 3:Divide the net transportation improvement fee basis by the forecasted number of growth PMPHVTs over the planning period. This arrives at **the total transportation improvement fee**.

The actual data that was used to calculate the total transportation improvement fee is shown below in Table 13.

					Funding	ing Source					
	Tota	Cost in 2018	General Fund	4 &	Future		State/Federal				
Project Description		Dollars	Gas	Гах	Development		Grants		SDCs		
Pedestrian Projects											
Arterial Street Improvements		7,850,000	1,178,0	11	5,960,000		-		711,989		
Collector Street Improvements		6,990,000	2,122,5	99	-		-		4,867,401		
Neighborhood Street Improvements		1,880,000	551,8	81	-				1,328,119		
Intersection Improvements		1,600,000	-		-		1,050,000		550,000		
Off-Street Improvements		2,685,000	-		720,000		1,965,000		-		
Bicycle Projects											
Arterial Street Improvements		1,425,000	-		-		20,000		1,405,000		
Collector Street Improvements		1,805,000	-		-		-		1,805,000		
Neighborhood Street Improvements		130,000	-		-		-		130,000		
Local Street Improvements		25,000	-		-		-		25,000		
Intersection Improvements		180,000	-		40,000		40,000		100,000		
Transit Projects		160,000	-		-		160,000		-		
Transportation System Management Projects		95,000	-		-		95,000		-		
Transportation Demand Management Projects		240,000	-		-		240,000		-		
Motor Vehicle Projects											
Arterial Street Improvements		31,785,000	100,2	84	31,610,000		-		74,716		
Collector Street Improvements		26,855,000	844,4	17	-		-		26,010,583		
Neighborhood Street Improvements		2,675,000	-		-		-		2,675,000		
Intersection Improvements		15,130,000	3,322,7	74	1,150,000		2,500,000		8,157,226		
Traffic Safety Projects		75,000	50,0	00	25,000		-		-		
New Facilities and Master Plan Projects		380,000					-		380,000		
Total	\$	101,965,000	\$ 8,169,9	67	\$ 39,505,000	\$	6,070,000	\$	48,220,033		
Total Improvement Fee Eligible Costs for Future System I	mproven	nents						\$	48,220,033		
less: Transportation SDC Fund balance as of June 30, 2	2018								813,582		
Adjusted Improvement Fee Eligible Costs for Future Syste	em Impro	ovements						\$	47,406,451		
Future PM peak hour vehicle trips created by growth									3,973		
Transportation improvement fee per PM peak hour ve	ehicle trip	,						\$	11,932		

#### Table 13 - Calculation of the Transportation Improvement Fee

2019 City of Molalla SDC Methodology Update 43

### **Transportation SDC Model Summary**

The 2019 transportation SDC methodology update was done in accordance with Molalla Municipal Code Chapter 13.14, and with the benefit of adopted capital improvement plans and plan updates for transportation services. We recommend the City update the SDC charge and methodology to reflect the current capital improvement program. Our analysis indicates the City can charge the following per PM PHVT:

Transportation SDC Components	Proposed	Current	Difference
Reimbursement fee	\$ 769	\$ 769	-
Improvement fee	11,932	3,276	8,656
Administration fee @ 2%	 254	 81	 173
Total transportation SDC	\$ 12,955	\$ 4,126	\$ 8,829

To charge the appropriate SDC, the City must estimate how many PM PHVTs will be generated by the development in question. That number can then be multiplied by \$12,955 to determine the amount of SDC owed by new development projects.

The number of PM PHVTs that a property will generate is a function of the increase in scope and scale of activities that will occur on that property. By "scope of activities," we mean land use. For example, a new single-family residence will generate trip-ends differently from a new retail store of the same size. By "scale of activities," we mean some measure of quantity. For residential land uses, the number of dwelling units is an appropriate measure of scale. For many commercial and industrial land uses, building floor area is the best measure. For example, a 20,000-square-foot store is likely to generate twice the number of trip-ends as a 10,000-square-foot store of the same type. Table 14 presents proposed transportation SDCs per unit of scale for several land uses in the 9th edition of Trip Generation Manual, published by the Institute of Transportation Engineers (ITE):

#### Table 14 - Proposed Transportation SDCs by ITE Code

		<b>T</b> (1) <b>T</b> (1)		D I	Diverted/Linked	D. i.u.u					
ITE Codo	Land Lico	Iotai Irip	Diverted/Linked	Pass-by Trips	and pass-by Irip	Primary Trip Ends	Improvo	Poimh	Complianco	Total SDC	Pasis for Calculating a Customor's SDC
Port and	Ferminal (Land Uses 000-099)	Elius	11103	11103	Aujustment	TTP LIIU3	inprove.	Nettrib.	compliance	Total SDC	basis for calculating a customer's SDC
010	Waterport/Marine Terminal*	17.15	0.00%	0.00%	-	17.15	204.658	13.190	4.357	222.205	Berth
021	Commercial Airport	5.75	0.00%	0.00%	-	5.75	68,609	4,422	1,461	74,491	Average flights per day
022	General Aviation Airport	1.46	0.00%	0.00%	-	1.46	17,421	1,123	371	18,914	Employee
030	Intermodal Truck Terminal	6.55	0.00%	0.00%	-	6.55	78,155	5,037	1,664	84,855	Acre
090	Park-an-Ride Lot with Bus Service	0.62	0.00%	0.00%	-	0.62	7,398	477	157	8,032	Parking space
093	Light Rail Transit Station with Parking	1.24	0.00%	0.00%	-	1.24	14,796	954	315	16,064	Parking space
Industrial	(Land Uses 100-199)									,	5.
110	General light industrial	0.97	0.00%	0.00%	-	0.97	11,574	746	246	12,566	1,000 square feet of gross floor area
120	General heavy industrial	0.68	0.00%	0.00%	-	0.68	8,114	523	173	8,809	1,000 square feet of gross floor area
130	Industrial park	0.85	0.00%	0.00%	-	0.85	10,142	654	216	11,012	1,000 square feet of gross floor area
140	Manufacturing	0.73	0.00%	0.00%	-	0.73	8,710	561	185	9,457	1,000 square feet of gross floor area
150	Warehousing	0.32	0.00%	0.00%	-	0.32	3,818	246	81	4,146	1,000 square feet of gross floor area
151	Mini-warehouse	0.26	0.00%	0.00%	-	0.26	3,102	200	66	3,368	1,000 square feet of gross floor area
152	High-Cube Warehouse/Distribution Center	0.12	0.00%	0.00%	-	0.12	1,432	92	30	1,555	1,000 square feet of gross floor area
160	Data center	0.09	0.00%	0.00%	-	0.09	1,074	69	23	1,166	1,000 square feet of gross floor area
170	Utilities	0.76	0.00%	0.00%	-	0.76	9,068	584	193	9,846	1,000 square feet of gross floor area
Residenti	al (Land Uses 200-299)										
210	Single family detached housing	1.00	0.00%	0.00%	-	1.00	11,932	769	254	12,955	Dwelling unit
220	Apartment	0.62	0.00%	0.00%	-	0.62	7,398	477	157	8,032	Dwelling unit
221	Low-Rise Apartment	0.58	0.00%	0.00%	-	0.58	6,921	446	147	7,514	Occupied dwelling unit
222	High-Rise Apartment	0.35	0.00%	0.00%	-	0.35	4,176	269	89	4,534	Dwelling unit
223	Mid-Rise Apartment	0.39	0.00%	0.00%	-	0.39	4,653	300	99	5,052	Dwelling unit
224	Rental Townhouse	0.72	0.00%	0.00%	-	0.72	8,591	554	183	9,328	Dwelling unit
230	Residential condominium/townhouse	0.52	0.00%	0.00%	-	0.52	6,205	400	132	6,737	Dwelling unit
231	Low-Rise Residential Condominium/Townhouse	0.78	0.00%	0.00%	-	0.78	9,307	600	198	10,105	Dwelling unit
232	High-Rise Residential Condominium/Townhouse	0.38	0.00%	0.00%	-	0.38	4,534	292	97	4,923	Dwelling unit
233	Luxury Condominium/Townhouse	0.55	0.00%	0.00%	-	0.55	6,563	423	140	7,125	Occupied dwelling unit
240	Mobile home park	0.59	0.00%	0.00%	-	0.59	7,040	454	150	7,643	Occupied dwelling unit
251	Senior Adult Housing - Detatched	0.27	0.00%	0.00%	-	0.27	3,222	208	69	3,498	Dwelling unit
252	Senior Adult Housing - Attached	0.25	0.00%	0.00%	-	0.25	2,983	192	64	3,239	Dwelling unit
253	Congregate Care Facility	0.17	0.00%	0.00%	-	0.17	2,028	131	43	2,202	Dwelling unit
254	Assisted living	0.22	0.00%	0.00%	-	0.22	2,625	169	56	2,850	Bed
255	Continuing Care Retirement Community	0.16	0.00%	0.00%	-	0.16	1,909	123	41	2,073	Unit
260	Recreational Homes	0.26	0.00%	0.00%	-	0.26	3,102	200	66	3,368	Dwelling unit
265	Timeshare	0.75	0.00%	0.00%	-	0.75	8,949	577	191	9,716	Dwelling unit
270	Residential Planned Unit Development	0.62	0.00%	0.00%	-	0.62	7,398	477	157	8,032	Dwelling unit
Lodging (	Land Uses 300-399)										
310	Hotel	0.60	0.00%	0.00%	-	0.60	7,159	461	152	7,773	Room
311	All Suites Hotel	0.40	0.00%	0.00%	-	0.40	4,773	308	102	5,182	Room
312	Business Hotel	0.62	0.00%	0.00%	-	0.62	7,398	477	157	8,032	Occupied Room
320	Motel	0.47	0.00%	0.00%	-	0.47	5,608	361	119	6,089	Room
330	Resort Hotel	0.42	0.00%	0.00%	-	0.42	5,011	323	107	5,441	Room

					Diverted/Linked							
		Total Trip	Diverted/Linked	Pass-by	and pass-by Trip	Primary						
ITE Code	Land Use	Ends	Trips	Trips	Adjustment	Trip Ends	Improve.	Reimb.	Compliance	Total SDC	Basis for Calculating a Customer's SDC	
Recreatio	onal (Land Uses 400-499)											
411	City Park*	0.19	0.00%	0.00%	-	0.19	2,255	145	48	2,448	Acre	
412	County Park	0.09	0.00%	0.00%	-	0.09	1,074	69	23	1,166	Acre	
413	State Park*	0.07	0.00%	0.00%	-	0.07	776	50	17	842	Acre	
414	Water Slide Park	1.92	0.00%	0.00%	-	1.92	22,909	1,476	488	24,874	1,000 square feet of gross floor area	
415	Beach Park	1.30	0.00%	0.00%	-	1.30	15,512	1,000	330	16,842	Acre	
416	Campground/Recreational Vehicle Park	0.27	0.00%	0.00%	-	0.27	3,222	208	69	3,498	Occupied camp site	
417	Regional park	0.20	0.00%	0.00%	-	0.20	2,386	154	51	2,591	Acre	
418	National Monument	0.42	0.00%	0.00%	-	0.42	5,011	323	107	5,441	Acre	
420	Marina	0.19	0.00%	0.00%	-	0.19	2,267	146	48	2,461	Berth	
430	Golf course	0.30	0.00%	0.00%	-	0.30	3,580	231	76	3,887	Acre	
431	Miniature Golf Course	0.33	0.00%	0.00%	-	0.33	3,938	254	84	4,275	Hole	
432	Golf Driving Range	1.25	0.00%	0.00%	-	1.25	14,915	961	318	16,194	Tees/Driving Position	
433	Batting Cages	2.22	0.00%	0.00%	-	2.22	26,489	1,707	564	28,760	Cage	
435	Multipurpose Recreational Facility	3.58	0.00%	0.00%	-	3.58	42,717	2,753	909	46,379	1,000 square feet of gross floor area	
437	Bowling Alley	1.71	0.00%	0.00%	-	1.71	20,404	1,315	434	22,153	1,000 square feet of gross floor area	
440	Adult Cabaret	38.67	0.00%	0.00%	-	38.67	461,410	29,737	9,823	500,971	1,000 square feet of gross floor area	
441	Live Theater	0.02	0.00%	0.00%	-	0.02	239	15	5	259	Seat	
443	Movie Theater without Matinee	24.00	0.00%	0.00%	-	24.00	286,368	18,456	6,096	310,920	Movie Screen	
444	Movie Theater with Matinee - Friday pm peak hour	45.91	0.00%	0.00%	-	45.91	547,798	35,305	11,662	594,765	Movie screen	
445	Multiplex Movie Theater - Friday pm peak hour	22.76	0.00%	0.00%	-	22.76	271,572	17,502	5,781	294,856	Movie screen	
452	Horse Racetrack	0.06	0.00%	0.00%	-	0.06	716	46	15	777	Seat	
453	Automobile Racetrack - Saturday peak hour	0.28	0.00%	0.00%	-	0.28	3,341	215	71	3,627	Attendee	
454	Dog Racetrack	0.15	0.00%	0.00%	-	0.15	1,790	115	38	1,943	Attendee	
460	Arena*	3.33	0.00%	0.00%	-	3.33	39,769	2,563	847	43,179	Acre	
465	Ice Skating Rink	2.36	0.00%	0.00%	-	2.36	28,160	1,815	599	30,574	1,000 square feet of gross floor area	
466	Snow Ski Area	26.00	0.00%	0.00%	-	26.00	310,232	19,994	6,605	336,831	Lift	
473	Casino/Video Lottery Establishment	13.43	0.00%	0.00%	-	13.43	160,247	10,328	3,411	173,986	1,000 square feet of gross floor area	
480	Amusement Park	3.95	0.00%	0.00%	-	3.95	47,131	3,038	1,003	51,172	Acre	
481	Zoo*	11.49	0.00%	0.00%	-	11.49	137,075	8,834	2,918	148,827	Acre	
488	Soccer Complex	17.17	0.00%	0.00%	-	17.17	204,872	13,204	4,362	222,438	Field	
490	Tennis Courts	3.88	0.00%	0.00%	-	3.88	46,296	2,984	986	50,265	Court	
491	Racquet/Tennis Club	3.35	0.00%	0.00%	-	3.35	39,972	2,576	851	43,399	Court	
492	Health/Fitness Club	3.53	0.00%	0.00%	-	3.53	42,120	2,715	897	45,731	1,000 square feet of gross floor area	
493	Athletic Club	5.96	0.00%	0.00%	-	5.96	71,115	4,583	1,514	77,212	1,000 square feet of gross floor area	
495	Recreational Community Center	2.74	0.00%	0.00%	-	2.74	32,694	2,107	696	35,497	1,000 square feet of gross floor area	

					Diverted/Linked						
		Total Trip	Diverted/Linked	Pass-by	and pass-by Trip	Primary					
ITE Code	Land Use	Ends	Trips	Trips	Adjustment	Trip Ends	Improve.	Reimb.	Compliance	Total SDC	Basis for Calculating a Customer's SDC
Institutio	nal (Land Uses 500-599)										
501	Military Base	0.39	0.00%	0.00%	-	0.39	4,653	300	99	5,052	Employee
520	Elementary School	1.21	0.00%	0.00%	-	1.21	14,438	930	307	15,676	1,000 square feet of gross floor area
522	Middle School/Junior High School	1.19	0.00%	0.00%	-	1.19	14,199	915	302	15,416	1,000 square feet of gross floor area
530	High School	0.97	0.00%	0.00%	-	0.97	11,574	746	246	12,566	1,000 square feet of gross floor area
534	Private School (K-8) - pm peak hour generator	6.53	0.00%	0.00%	-	6.53	77,916	5,022	1,659	84,596	1,000 square feet of gross floor area
536	Private School (K-12) - pm peak hour generator	5.50	0.00%	0.00%	-	5.50	65,626	4,230	1,397	71,253	1,000 square feet of gross floor area
540	Junior/Community College	2.54	0.00%	0.00%	-	2.54	30,307	1,953	645	32,906	1,000 square feet of gross floor area
550	University/College	0.79	0.00%	0.00%	-	0.79	9,426	608	201	10,234	Employee
560	Church	0.55	0.00%	0.00%	-	0.55	6,563	423	140	7,125	1,000 square feet of gross floor area
561	Synagogue	1.69	0.00%	0.00%	-	1.69	20,165	1,300	429	21,894	1,000 square feet of gross floor area
562	Mosque - pm peak hour generator	11.02	0.00%	0.00%	-	11.02	131,491	8,474	2,799	142,764	1,000 square feet of gross floor area
565	Day Care Center	12.34	0.00%	0.00%	-	12.34	147,241	9,489	3,135	159,865	1,000 square feet of gross floor area
566	Cemetary	0.84	0.00%	0.00%	-	0.84	10,023	646	213	10,882	Acre
571	Prison	2.91	0.00%	0.00%	-	2.91	34,722	2,238	739	37,699	1,000 square feet of gross floor area
580	Museum	0.18	0.00%	0.00%	-	0.18	2,148	138	46	2,332	1,000 square feet of gross floor area
590	Library	7.30	0.00%	0.00%	-	7.30	87,104	5,614	1,854	94,572	1,000 square feet of gross floor area
591	Lodge/Fraternal Organization	0.03	0.00%	0.00%	-	0.03	358	23	8	389	Member
Medical (	Land Uses 600-699)										
610	Hospital	0.93	0.00%	0.00%	-	0.93	11,097	715	236	12,048	1,000 square feet of gross floor area
620	Nursing Home	0.74	0.00%	0.00%	-	0.74	8,830	569	188	9,587	1,000 square feet of gross floor area
630	Clinic	5.18	0.00%	0.00%	-	5.18	61,808	3,983	1,316	67,107	1,000 square feet of gross floor area
640	Animal Hospital/Veterinary Clinic	4.72	0.00%	0.00%	-	4.72	56,319	3,630	1,199	61,148	1,000 square feet of gross floor area
Office (La	ind Uses 700-799)										
710	General office building	1.49	0.00%	0.00%	-	1.49	17,779	1,146	378	19,303	1,000 square feet of gross floor area
714	Corporate Headquarters Building	1.41	0.00%	0.00%	-	1.41	16,824	1,084	358	18,267	1,000 square feet of gross floor area
715	Single Tenant Office Building	1.74	0.00%	0.00%	-	1.74	20,762	1,338	442	22,542	1,000 square feet of gross floor area
720	Medical-dental office building	3.57	0.00%	0.00%	-	3.57	42,597	2,745	907	46,249	1,000 square feet of gross floor area
730	Government Office Building	1.21	0.00%	0.00%	-	1.21	14,438	930	307	15,676	1,000 square feet of gross floor area
731	State Motor Vehicles Department	17.09	0.00%	0.00%	-	17.09	203,918	13,142	4,341	221,401	1,000 square feet of gross floor area
732	United States Post Office	11.22	0.00%	0.00%	-	11.22	133,877	8,628	2,850	145,355	1,000 square feet of gross floor area
733	Government Office Complex	2.85	0.00%	0.00%	-	2.85	34,006	2,192	724	36,922	1,000 square feet of gross floor area
750	Office park - pm peak hour	1.48	0.00%	0.00%	-	1.48	17,659	1,138	376	19,173	1,000 square feet of gross floor area
760	Research and development center - pm peak hour	1.07	0.00%	0.00%	-	1.07	12,767	823	272	13,862	1,000 square feet of gross floor area
770	Business park - pm peak hour	1.26	0.00%	0.00%	-	1.26	15,034	969	320	16,323	1,000 square feet of gross floor area

					Diverted/Linked						
		Total Trip	Diverted/Linked	Pass-by	and pass-by Trip	Primary					
ITE Code	Land Use	Ends	Trips	Trips	Adjustment	Trip Ends	Improve.	Reimb.	Compliance	Total SDC	Basis for Calculating a Customer's SDC
Retail (La	nd Uses 800-899)										
810	Tractor Supply Store	1.40	0.00%	0.00%	-	1.40	16,705	1,077	356	18,137	1,000 square feet of gross floor area
811	Construction Equipment Rental Store	0.99	0.00%	0.00%	-	0.99	11,813	761	251	12,825	1,000 square feet of gross floor area
812	Building Materials and Lumber Store	4.49	0.00%	0.00%	-	4.49	53,575	3,453	1,141	58,168	1,000 square feet of gross floor area
813	Free Standing Discount Super Store	4.35	0.00%	28.00%	1.22	3.13	37,371	2,409	796	40,575	1,000 square feet of gross floor area
814		6.82	0.00%	0.00%	-	6.82	81,376	5,245	1,732	88,353	1,000 square feet of gross floor area
815	Free Standing Discount Store	4.98	35.25%	17.00%	2.60	2.38	28,374	1,829	604	30,806	1,000 square feet of gross floor area
816	Hardware/Paint Store	4.84	29.50%	26.00%	2.69	2.15	25,699	1,656	547	27,903	1,000 square feet of gross floor area
817	Nursery (Garden Center)	6.94	0.00%	0.00%	-	6.94	82,808	5,337	1,763	89,908	1,000 square feet of gross floor area
818	Nursery (Wholesale)	5.17	0.00%	0.00%	-	5.17	61,688	3,976	1,313	66,977	1,000 square feet of gross floor area
820	Shopping Center	3.71	15.86%	34.00%	1.85	1.86	22,196	1,430	473	24,099	1,000 square feet of gross leasable area
823	Factory Outlet Center	2.29	0.00%	0.00%	-	2.29	27,324	1,761	582	29,667	1,000 square feet of gross floor area
826	Specialty Retail Center	2.71	0.00%	0.00%	-	2.71	32,336	2,084	688	35,108	1,000 square feet of gross leasable area
841	Automobile Sales	2.62	0.00%	0.00%	-	2.62	31,262	2,015	666	33,942	1,000 square feet of gross floor area
842	Recreational Vehicle Sales	2.54	0.00%	0.00%	-	2.54	30,307	1,953	645	32,906	1,000 square feet of gross floor area
843	Automobile Parts Sales	5.98	13.00%	43.00%	3.35	2.63	31,395	2,023	668	34,087	1,000 square feet of gross floor area
848	Tire Store	4.15	3.33%	28.00%	1.30	2.85	34,002	2,191	724	36,917	1,000 square feet of gross floor area
849	Tire Superstore	2.11	0.00%	0.00%	-	2.11	25,177	1,623	536	27,335	1,000 square feet of gross floor area
850	Supermarket	9.48	25.25%	36.00%	5.81	3.67	43,832	2,825	933	47,590	1,000 square feet of gross floor area
851	Convenience Market (Open 24 Hours)	52.41	6.47%	61.00%	35.36	17.05	203,405	13,109	4,330	220,845	1,000 square feet of gross floor area
852	Convenience Market (Open 15-16 Hours)	34.57	12.14%	63.50%	26.15	8.42	100,503	6,477	2,140	109,120	1,000 square feet of gross floor area
853	Convenience Market with Gasoline Pumps	50.92	17.80%	66.00%	42.67	8.25	98,428	6,344	2,095	106,866	1,000 square feet of gross floor area
854	Discount Supermarket	8.34	23.20%	23.00%	3.85	4.49	53,538	3,450	1,140	58,128	1,000 square feet of gross floor area
857	Discount Club	4.18	0.00%	0.00%	-	4.18	49,876	3,214	1,062	54,152	1,000 square feet of gross floor area
860	Wholesale Market	0.88	0.00%	0.00%	-	0.88	10,500	677	224	11,400	1,000 square feet of gross floor area
861	Sporting Goods Superstore	1.84	0.00%	0.00%	-	1.84	21,955	1,415	467	23,837	1,000 square feet of gross floor area
862	Home Improvement Superstore	2.33	8.00%	48.00%	1.30	1.03	12,233	788	260	13,281	1,000 square feet of gross floor area
863	Electronics Superstore	4.50	33.00%	40.00%	3.29	1.22	14,497	934	309	15,740	1,000 square feet of gross floor area
864	Toy/Children's Superstore	4.99	0.00%	0.00%	-	4.99	59,541	3,837	1,268	64,646	1,000 square feet of gross floor area
865	Baby Superstore	1.82	0.00%	0.00%	-	1.82	21,716	1,400	462	23,578	1,000 square feet of gross floor area
866	Pet Supply Superstore	3.38	0.00%	0.00%	-	3.38	40,330	2,599	859	43,788	1,000 square feet of gross floor area
867	Office Supply Superstore	3.40	0.00%	0.00%	-	3.40	40,569	2,615	864	44,047	1,000 square feet of gross floor area
868	Book Superstore	15.82	0.00%	0.00%	-	15.82	188,764	12,166	4,019	204,948	1,000 square feet of gross floor area
869	Discount Home Furnishing Superstore	1.57	0.00%	0.00%	-	1.57	18,733	1,207	399	20,339	1,000 square feet of gross floor area
872	Bed and Linen Superstore	2.22	0.00%	0.00%	-	2.22	26,489	1,707	564	28,760	1,000 square feet of gross floor area
875	Department Store	1.87	0.00%	0.00%	-	1.87	22,313	1,438	475	24,226	1,000 square feet of gross floor area
876	Apparel Store	3.83	0.00%	0.00%	-	3.83	45,700	2,945	973	49,618	1,000 square feet of gross floor area
879	Arts and Crafts Store	6.21	0.00%	0.00%	-	6.21	74,098	4,775	1,577	80,451	1,000 square feet of gross floor area
880	Pharmacy/Drugstore without Drive-Through	8.40	4.67%	53.00%	4.84	3.56	42,430	2,735	903	46,068	1,000 square feet of gross floor area
881	Pharmacy/Drugstore with Drive-Through	9.91	13.00%	49.00%	6.14	3.77	44,934	2,896	957	48,786	1,000 square feet of gross floor area
890	Furniture Store	0.45	10.33%	53.00%	0.29	0.17	1,969	127	42	2,138	1,000 square feet of gross floor area
896	DVD/Video Store	13.60	0.00%	0.00%	-	13.60	162,275	10,458	3,455	176,188	1,000 square feet of gross floor area
897	Medical Equipment Store	1.24	0.00%	0.00%	-	1.24	14,796	954	315	16,064	1,000 square feet of gross floor area

					Diverted/Linked						
		Total Trip	Diverted/Linked	Pass-by	and pass-by Trip	Primary					
ITE Code	Land Use	Ends	Trips	Trips	Adjustment	Trip Ends	Improve.	Reimb.	Compliance	Total SDC	Basis for Calculating a Customer's SDC
Services	(Land Uses 900-999)										
911	Walk-in Bank	12.13	0.00%	0.00%	-	12.13	144,735	9,328	3,081	157,144	1,000 square feet of gross floor area
912	Drive-in Bank	24.30	25.67%	47.00%	17.66	6.64	79,252	5,108	1,687	86,047	1,000 square feet of gross floor area
918	Hair Salon	1.45	0.00%	0.00%	-	1.45	17,301	1,115	368	18,785	1,000 square feet of gross floor area
920	Copy, Print and Express Ship Store	7.41	0.00%	0.00%	-	7.41	88,416	5,698	1,882	95,997	1,000 square feet of gross floor area
925	Drinking Place	11.34	0.00%	0.00%	-	11.34	135,309	8,720	2,881	146,910	1,000 square feet of gross floor area
931	Quality Restaurant	7.49	13.50%	44.00%	4.31	3.18	37,983	2,448	809	41,239	1,000 square feet of gross floor area
932	High-Turnover (Sit Down) Restaurant	9.85	17.25%	43.00%	5.93	3.92	46,718	3,011	995	50,724	1,000 square feet of gross floor area
933	Fast-food restaurant without drive-through	26.15	17.25%	43.00%	15.76	10.39	124,029	7,993	2,640	134,663	1,000 square feet of gross floor area
934	Fast-food restaurant with drive-through	32.65	9.06%	50.00%	19.28	13.37	159,511	10,280	3,396	173,187	1,000 square feet of gross floor area
935	Fast-food restaurant with drive-through and no indoor seating	44.99	0.00%	89.00%	40.04	4.95	59,050	3,806	1,257	64,113	1,000 square feet of gross floor area
936	Coffee/donut shop without drive-through	40.75	17.25%	43.00%	24.55	16.20	193,276	12,456	4,115	209,847	1,000 square feet of gross floor area
937	Coffee/donut shop with drive-through	42.80	9.06%	50.00%	25.28	17.52	209,099	13,476	4,452	227,027	1,000 square feet of gross floor area
938	Coffee/donut kiosk	75.00	9.06%	50.00%	44.29	30.71	366,412	23,615	7,801	397,827	1,000 square feet of gross floor area
939	Bread/Donut/Bagel Shop without Drive-Through Window	28.00	0.00%	0.00%	-	28.00	334,096	21,532	7,113	362,741	1,000 square feet of gross floor area
940	Bread/Donut/Bagel Shop with Drive-Through Window	18.99	0.00%	0.00%	-	18.99	226,589	14,603	4,824	246,016	1,000 square feet of gross floor area
941	Quick Lubrication Vehicle Shop	5.19	0.00%	0.00%	-	5.19	61,927	3,991	1,318	67,237	Servicing Position
942	Automobile Care Center	3.11	0.00%	0.00%	-	3.11	37,109	2,392	790	40,290	1,000 sq. ft. of occupied gross leasable area
943	Automobile Parts and Service Center	4.46	0.00%	0.00%	-	4.46	53,217	3,430	1,133	57,779	1,000 square feet of gross floor area
944	Gasoline/service station	13.87	23.00%	42.00%	9.02	4.85	57,924	3,733	1,233	62,890	Vehicle fueling position
945	Gasoline/service station with convenience market	13.51	31.22%	56.00%	11.78	1.73	20,598	1,328	439	22,364	Vehicle fueling position
946	Gasoline/service station with convenience market and car wash	13.86	27.11%	49.00%	10.55	3.31	39,507	2,546	841	42,894	Vehicle fueling position
947	Self-Service Car Wash	5.54	0.00%	0.00%	-	5.54	66,103	4,260	1,407	71,771	Wash stall
948	Automated Car Wash	14.12	0.00%	0.00%	-	14.12	168,480	10,858	3,587	182,925	1,000 square feet of gross floor area
950	Truck Stop	13.63	0.00%	0.00%	-	13.63	162,633	10,481	3,462	176,577	1,000 square feet of gross floor area

\* No ITE PM peak hour trip generation for this code/category, the trip generation shown is ITE weekday average divided by ten.

Source: ITE, Trip Generation Manual, 9th edition

PM peak vehicle trips expressed in trip ends on a weekday, peak hour of adjacent street traffic, one hour, between 4:00 pm and 6:00 pm unless otherwise noted

### **Conclusions and Recommendations**

The 2019 SDC methodology update was done in accordance with MMC Chapter 13.14, and with the benefit of adopted plans and plan updates for municipal services. Our analysis indicates the City can charge a maximum of \$11,037 for wastewater, and \$12,955 for transportation. These figures are on a per equivalent single-family residential unit basis.

A graphic side by side comparison of the proposed and current schedule of SDCs is shown blow in figure 2.



Figure 2 - Proposed and Current Schedule of SDCs

Finally, we recommend the City adopt a policy of reviewing its suite of SDCs every five years. Between the review dates, the city should apply a cost adjustment index to the SDC rates annually to reflect changes in costs for land and construction. This policy should be codified in the Molalla Municipal Code (MMC §13.14). We suggest the City consider the following language for that section of the MMC:

- Notwithstanding any other provision, the dollar amounts of the SDC set forth in the SDC methodology report shall on January 1<sup>st</sup> of each year be adjusted to account for changes in the costs of acquiring and constructing facilities. The adjustment factor shall be based on:
  - a. The change in construction costs according to the Engineering News Record (ENR) Northwest (Seattle, Washington) Construction Cost Index (CCI).
  - b. The system development charges adjustment factor shall be used to adjust the system development charges, unless they are otherwise adjusted by the city based on a change in the costs of materials, labor, or real property; or adoption of an updated methodology.