

## RESOLUTION NO. 3117

### A RESOLUTION AMENDING THE CITY TRANSPORTATION FISCALLY CONSTRAINED SDC PROJECT LIST AND INCREASING THE TRANSPORTATION SYSTEM DEVELOPMENT CHARGE RATE

#### Findings:

A. The Bend City Council adopted the current Transportation System Development Charge (SDC) methodology in 2011, by Resolution No. 2850, along with a fiscally-constrained project list (SDC Project List), which together provide the basis for the SDC rate. The City has periodically updated this project list by resolution, and annually adjusts the SDC rate based on an established cost index.

B. Periodic review of the SDC methodology, project list, and rates is needed to ensure that the project list remains relevant and appropriate amounts are being collected.

C. The City reviewed costs for recently-completed transportation projects in order to determine per-unit planning-level cost estimates for common transportation improvements. The City retained Kittelson & Associates, Inc., and Galardi Consulting, LLC, to apply these updated per-unit costs across the SDC project list in order to assist the City in adopting an updated project list and rates for its Transportation SDCs. Council has reviewed the analysis and finds it has been professionally prepared and provides a sufficient basis for the Council to adopt the project list and rates.

D. The per-unit cost estimates reviewed by the City and the subsequent analysis by Kittelson & Associates, Inc., and Galardi Consulting, LLC, determined that project costs of the projects on the Transportation SDC Project List have increased based on changes in the costs of materials, labor, or real property. It is therefore appropriate to update the Transportation SDC Project List, pursuant to ORS 223.309 and Bend Code 12.10.080. Updating the Transportation SDC Project List does not change the methodology, but will result in an increase to the Transportation SDC.

D. The project cost updates result in a maximum allowable transportation SDC rate of \$10,904 per peak hour trip, which is more than double the current adopted transportation SDC. At this time, Council wishes to adopt a transportation SDC fee that does not exceed the current transportation SDC to this extent by implementing an improvement fee that is lower than the maximum allowable charge under the City's current transportation SDC methodology.

E. Pursuant to ORS 223.309, the City provided, at least 30 days prior to the adoption of this modification, notice of the proposed modification to the persons who requested written notice under ORS 223.304(6).

Based on these findings, the City of Bend resolves as follows:

Section 1. The Transportation System Development Charge Project Cost Analysis prepared by the City's Growth Management Department, which summarizes the work completed by Kittelson & Associates, Inc. and Galardi Consulting, LLC, and dated June 12, 2018, attached as Exhibit A, is accepted and approved.

Section 2. The Updated Transportation SDC Project List dated June 20, 2018, attached as Exhibit B, is adopted as the SDC Project List for the City of Bend.

Section 3. No changes are made to the Transportation SDC Methodology. The methodology adopted in 2011 by Resolution 2850 remains in effect.

Section 4. The maximum allowable Transportation SDC per peak hour trip based on the increased costs of materials, labor, or real property using the adopted TSDC methodology is:

Improvement Fee:	\$9,182
Reimbursement Fee:	\$1,639
<u>Compliance Charge:</u>	<u>\$83</u>
TOTAL:	\$10,904

Section 5. Based on the Council's desire to implement a charge lower than the maximum allowable transportation SDC at this time, the Transportation SDC rates per peak pm hour trip effective July 1, 2018, shall be:

Improvement Fee:	\$5,078
Reimbursement Fee:	\$1,639
<u>Compliance Charge:</u>	<u>\$83</u>
TOTAL:	\$6,800

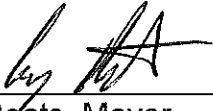
Transportation SDC amounts for specific development types will be established by separate resolution, based on the peak pm hour trip rate set in this Resolution.

Section 6. The rates established by Section 5 shall be adjusted on July 1 of each year commensurate with the change in the 20 City Engineering News Record (ENR) Index and the most current Institute of Transportation Engineers (ITE) manual.

Section 7. Credits, including credits for qualified public improvements, shall be provided consistent with applicable provisions of the Bend Code.

Adopted by the Bend City Council on June 20, 2018.

YES: Casey Roats, Mayor      NO: none  
Sally Russell  
Bill Moseley  
Nathan Boddie  
Justin Livingston  
Barb Campbell

  
\_\_\_\_\_  
Casey Roats, Mayor

ATTEST:

  
\_\_\_\_\_  
Robyn Christie, City Recorder

APPROVED AS TO FORM:

  
\_\_\_\_\_  
Mary A. Winters, City Attorney

***Exhibit A:  
Transportation System Development Charge  
Project Cost Analysis***



GROWTH  
MANAGEMENT

## **MEMORANDUM**

To: Bend City Council

From: Emily Eros, Transportation Planner

Re: Transportation System Development Charge Project Cost  
Analysis

Date: 6/12/2018

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### **Purpose**

This memo summarizes a cost analysis for transportation projects that was performed by the City, as well as subsequent analysis performed by Galardi Consulting, LLC. Findings demonstrate that per-unit costs for transportation projects in Bend have risen substantially. Kittelson & Associates, Inc. and Galardi Consulting, LLC, have applied these changes to the transportation SDC project list in order to demonstrate how these increases would impact the project list.

### **Per-unit costs for planning transportation projects in Bend**

The City's Engineering & Infrastructure Planning Department, along with the Growth Management Department, reviewed actual costs from transportation projects that were recently completed in Bend as part of the General Obligation Bond funding. These projects included the Reed Market and 14<sup>th</sup> Street corridors and several roundabouts. These projects included a wide variety of common elements, such as two- and three-lane arterials and collectors. Based on these project costs, the City and its aforementioned consultants developed a schedule of per-unit cost estimates for planning transportation projects. These findings are shown in Table 1. These are pre-class 5 cost estimates, which are not location- or project-specific and are intended for use at a planning level. As such, the estimates include amounts for construction, project management, planning, design, and right-of-way acquisition, as well as an overall contingency amount. This is in keeping with best practices for transportation planning and engineering.

Table 2 shows how these new, 2018 cost estimates compare to previous, 2010 cost estimates which were prepared for the 2011 Transportation System Development Charges (SDC) Methodology; these are the cost estimates that were used to develop the transportation SDC project list that was adopted in 2011.

Table 1: Pre-Class 5 Cost Estimates for Planning Projects

ITEM	Construction	Project Management 15% of Construction	Planning 5% of Construction	Design 15% of Construction	Contingency 30% of Construction	ROW 10% of Construction	TOTAL	UNIT
New 2 lane Collector*	\$ 600	\$ 90	\$ 30	\$ 90	\$ 180	\$ 60	\$ 1,050	Per linear foot
New 3 lane Collector*	\$ 700	\$ 105	\$ 35	\$ 105	\$ 210	\$ 70	\$ 1,225	Per linear foot
New 2 lane Arterial*	\$ 800	\$ 120	\$ 40	\$ 120	\$ 240	\$ 80	\$ 1,400	Per linear foot
New 3 lane Arterial*	\$ 900	\$ 135	\$ 45	\$ 135	\$ 270	\$ 90	\$ 1,575	Per linear foot
New 5 lane Arterial*	\$ 1,000	\$ 150	\$ 50	\$ 150	\$ 300	\$ 100	\$ 1,750	Per linear foot
Bike Lane Infill (Parking Removal)	\$ 25	\$ 4	\$ 1	\$ 4	\$ 8	\$ 3	\$ 44	Per linear foot
Bike Lane Infill (Parking Removal), Sidewalk Infill & ADA Ramps	\$ 115	\$ 17	\$ 6	\$ 17	\$ 34	\$ 11	\$ 201	Per linear foot
Bike Lanes, Sidewalk Infill & ADA Ramps	\$ 150	\$ 23	\$ 8	\$ 23	\$ 45	\$ 15	\$ 263	Per linear foot
Capacity Three Lane Arterial**	\$ 600	\$ 90	\$ 30	\$ 90	\$ 180	\$ 60	\$ 1,050	Per linear foot
Common turn lane, Sidewalk Infill & Ramps	\$ 150	\$ 23	\$ 8	\$ 23	\$ 45	\$ 15	\$ 263	Per linear foot
Curb, Bike Lanes, Sidewalk Infill and ADA Ramps	\$ 150	\$ 23	\$ 8	\$ 23	\$ 45	\$ 15	\$ 263	Per linear foot
Curb, Sidewalk Infill and ADA Ramps	\$ 100	\$ 15	\$ 5	\$ 15	\$ 30	\$ 10	\$ 175	Per linear foot
Multi-use Trail, Curb, Sidewalk Infill and ADA Ramps	\$ 150	\$ 23	\$ 8	\$ 23	\$ 45	\$ 15	\$ 263	Per linear foot
New Channelization, Sidewalk Infill	\$ 550	\$ 83	\$ 28	\$ 83	\$ 165	\$ 55	\$ 963	Per linear foot
New Frontage	\$ 200	\$ 30	\$ 10	\$ 30	\$ 60	\$ 20	\$ 350	Per linear foot
Partial Widening, Curb, Bike Lanes, Sidewalk Infill and ADA Ramps	\$ 100	\$ 15	\$ 5	\$ 15	\$ 30	\$ 10	\$ 175	Per linear foot
Sidewalk Infill and ADA Ramps	\$ 550	\$ 83	\$ 28	\$ 83	\$ 165	\$ 55	\$ 963	Per linear foot
Canal Crossing	\$ 1,700,000	\$ 255,000	\$ 85,000	\$ 255,000	\$ 510,000	\$ 170,000	\$ 2,975,000	EACH
RR Overpass	\$ 6,500,000	\$ 975,000	\$ 325,000	\$ 975,000	\$ 1,950,000	\$ 650,000	\$ 11,375,000	EACH
New Roundabout	\$ 1,750,000	\$ 262,500	\$ 87,500	\$ 262,500	\$ 525,000	\$ 175,000	\$ 3,062,500	EACH
Roundabout Reconstruct	\$ 500,000	\$ 75,000	\$ 25,000	\$ 75,000	\$ 150,000	\$ 50,000	\$ 875,000	EACH
Signal Upgrade	\$ 250,000	\$ 37,500	\$ 12,500	\$ 37,500	\$ 75,000	\$ 25,000	\$ 437,500	EACH
ADA Ramps	\$ 5,714	\$ 857	\$ 286	\$ 857	\$ 1,714	\$ 571	\$ 10,000	EACH
RRFB	\$ 175,000	\$ 26,250	\$ 8,750	\$ 26,250	\$ 52,500	\$ 17,500	\$ 306,250	EACH

\*Includes curbs, sidewalks and bike lanes both directions

\*\*Includes Sidewalks on both sides

Table 2: Pre-class 5 cost estimates for transportation projects, 2010 and 2018

FEATURE	2010 per linear ft	2018 per linear ft
New 2 lane Collector*	\$ 546	\$ 1,050
New 3 lane Collector*	\$ 550	\$ 1,225
New 2 lane Arterial*	\$ 656	\$ 1,400
New 3 lane Arterial*	\$ 687	\$ 1,575
Bike Lane Infill (Parking Removal), Sidewalk Infill & ADA Ramps	\$ 115	\$ 201
Capacity Three Lane Arterial**	\$ 504	\$ 1,050
Curb, Sidewalk Infill and ADA Ramps	\$ 98	\$ 175
New Frontage	\$ 546	\$ 963
Sidewalk Infill and ADA Ramps	\$ 70	\$ 175
	<b>2010 each</b>	<b>2018 each</b>
Canal Crossing	\$ 1,687,640	\$ 2,975,000
New Roundabout	\$ 1,120,000	\$ 3,062,500
Signal Upgrade	\$ 280,000	\$ 437,500

\*Includes curbs, sidewalks and bike lanes both directions

\*\*Includes Sidewalks on both sides

Table 2 indicates that, between 2010 and 2018, per-unit costs have more than doubled for transportation projects. This is in keeping with state-level findings from the Oregon Department of Transportation<sup>1</sup>. In addition to the costs of construction materials, these higher estimates are also driven by the increased costs of construction labor in the current economy, as well as by updated design standards for road features.

### Applying new cost estimates to the Transportation SDC Project List

Kittelson & Associates, Inc., and Galardi Consulting, LLC, reviewed the 2018 per-unit cost estimates and applied these to each of the projects in the (fiscally-constrained) Transportation SDC Project List. The consultants used these changes to amend the improvement and reimbursement project lists (shown after this memo, as Exhibit B), and also moved completed projects to the reimbursement list. Compliance charges have been held constant at \$83 per peak hour trip.

<sup>1</sup> See findings presented to the Joint Interim Committee on Transportation and Modernization on September 22, 2016: <https://olis.leg.state.or.us/liz/201511/Committees/JTPM/2016-09-22-17-00/MeetingMaterials>

Following the 2011 adopted TSDC methodology, the amended reimbursement and improvement project lists would result in the following maximum-allowable cost per trip:

*Table 3: Maximum-Allowable Cost per Peak-Hour Trip,  
Based on 2018 Cost Updates to the Transportation SDC Project List*

	Improvement	Reimbursement	Total
Cost Basis	\$195,564,755	\$34,907,371	\$230,472,126
Growth Trips	21,300	21,300	21,300
Total	\$9,181	\$1,639	\$10,820
Compliance Cost			\$83
			\$10,904

The current transportation SDC per peak hour trip is \$5,285. The new maximum-allowable cost per trip shown in Table 3 could result in a new transportation SDC that is more than double the amount of the current fee. In order to maintain the transportation SDC at a level that does not greatly exceed the current fee, Table 4 shows the new proposed cost per peak-hour trip that would result in a transportation SDC of \$6,800.

*Table 4: Proposed Cost per Peak-Hour Trip, by Component*

Component	Amount
Improvement fee	\$5,078
Reimbursement fee	\$1,639
Compliance cost	\$83
<b>Total</b>	<b>\$6,800</b>

This new fee is not expected to provide funding to complete every project on the Transportation SDC Project List. A methodology update is underway for transportation SDCs and this process will consider SDCs comprehensively, including whether and how to fiscally constrain the project list or resulting transportation SDC cost per peak hour trip.



***Exhibit B:***

***Updated Transportation SDC Project List***

Table C-1 (Updated June 20, 2018), Exhibit 1  
 2014 Fiscally-Constrained SDC Project List with 2018 Cost Updates  
 Proposed Projects

Corridor	Street Name	From	To	Category (1)	Need (2)	Description	Total \$	NonGrowth \$	Growth \$	Growth %
14TH/CENTURY	14TH ST	GALVESTON	SIMPSON	3	B	Bike Lanes, Sidewalk Infill & ADA R	3,600,000	2,611,769	1,188,231	31%
14TH/CENTURY	14TH ST	NEWPORT	GALVESTON	3	C	Sidewalk Infill	2,200,000	-	2,200,000	100%
14TH/CENTURY	CENTURY DR	MT. WASHINGTON	UGB (2000)	3	C	Sidewalk Infill	2,000,000	-	2,000,000	100%
15th ST.	15th ST	FERGUSON	KNOTT ROAD	3	C	Curb, Sidewalk Infill	4,200,000	-	4,200,000	100%
15th ST.	15th ST	REED MARKET	FERGUSON	3	C	Sidewalk Infill	400,000	-	400,000	100%
15th ST.	15th ST	KNOTT INTERSECTION	N/A	4	A	Single Lane Roundabout	3,100,000	-	3,100,000	100%
15th ST.	15th ST	WILSON INTERSECTION	N/A	4	B	Single Lane Roundabout	3,100,000	2,490,189	689,811	22%
18TH ST.	18TH ST	YEOMAN	EMPIRE	3	A	Upgrade to 3-lane Arterial	1,600,000	975,887	624,113	39%
18TH ST.	18TH ST	COOLEY RD.	YEOMAN	3	B	Upgrade to 3-lane Arterial	6,200,000	3,512,123	2,687,877	43%
27TH ST. (N)	27TH ST. NE	WELLS ACRES INT.	N/A	4	A	Single Lane Roundabout	3,100,000	-	3,100,000	100%
27TH ST. (N)	27TH ST. NE	CONNERS INTERSECTION	N/A	4	A	Single Lane Roundabout	3,100,000	-	3,100,000	100%
27TH ST. (S)	27TH ST. SE	BEAR CREEK RD.	REED MARKET RD	2	A	New 3- Lane Arterial	8,600,000	6,297,718	2,302,282	27%
2ND ST.	2ND ST	SCOTT	WILSON	3	C	Curb, Sidewalk Infill	600,000	-	600,000	100%
2ND ST.	SCOTT AVE	PARKWAY ST.	SE 2ND.	3	C	Sidewalk Infill	600,000	-	600,000	100%
3RD ST. (N)	HWY. 20 (N) / 3RD ST.	GREENWOOD INT.	N/A	9	B	Signal Modification	500,000	389,422	110,578	22%
3RD ST. (N)	HWY. 20 (N) / 3RD ST.	HWY 97 (N)	EMPIRE	9	C	Curb, Bike Lanes, Sidewalk Infill	500,000	-	500,000	100%
3RD ST. (N)	HWY. 20 (N) / 3RD ST.	EMPIRE	DIVISION ST. (N)	9	C	Curb, Sidewalk Infill	300,000	-	300,000	100%
3RD ST. (S)	3RD ST. SE	FRANKLIN	WILSON	3	C	Curb, Sidewalk Infill	6,800,000	-	6,800,000	100%
3RD ST. (S)	3RD ST. SE	GREENWOOD	FRANKLIN	3	C	Curb, Sidewalk Infill	300,000	-	300,000	100%
3RD ST. (S)	3RD ST. SE	POWERS	MURPHY	3	C	Curb, Sidewalk Infill	900,000	-	900,000	100%
3RD ST. (S)	3RD ST. SE	FRANKLIN INT.	N/A	4	A	Signal Modification	500,000	-	500,000	100%
3RD ST. (S)	3RD ST. SE	POWERS INT.	N/A	4	A	Signal Modification	500,000	-	500,000	100%
3RD ST. (S)	3RD ST. SE	BADGER INT.	N/A	4	B	Signal Modification	500,000	383,109	136,891	27%
3RD ST. (S)	3RD ST. SE	HAWTHORNE INT.	N/A	4	C	HAWK Signal	400,000	-	400,000	100%
4TH ST.	4TH ST. NE	GREENWOOD	FRANKLIN	3	C	Bike Lanes, Sidewalk Infill	2,400,000	-	2,400,000	100%
4TH ST.	4TH ST. NE	FRANKLIN	GLENWOOD (ALDEN)	3	C	Curb, Bike Lanes, Sidewalk Infill	3,600,000	-	3,600,000	100%
4TH ST.	4TH ST. NE	REVERE	GREENWOOD	3	C	Curb, Bike Lanes, Sidewalk Infill	4,500,000	-	4,500,000	100%
4TH ST.	4TH ST. NE	BUTLER MKT. RD.	REVERE	3	C	Curb, Bike Lanes, Sidewalk Infill	1,100,000	-	1,100,000	100%
4TH ST.	ALDEN/ GLENWOOD	4th St	9TH ST.	3	C	Curb, Sidewalk Infill	300,000	-	300,000	100%
4TH ST.	4TH ST. NE	BUTLER MKT. INT.	N/A	4	A	Single Lane Roundabout	3,100,000	1,395,000	1,705,000	55%
4TH ST.	4TH ST. NE	CLNEY INT.	N/A	4	A	New Traffic Signal Deleted -	-	-	-	0%
4TH ST.	4TH ST. NE	REVERE INT.	N/A	4	B	Single Lane Roundabout	3,100,000	2,298,916	801,084	26%
8TH/9TH ST.	8TH ST. NE	REVERE	GREENWOOD	3	A	Bike Lanes, Sidewalk Infill & ADA R	800,000	592,559	207,441	26%
8TH/9TH ST.	8TH ST. NE	BUTLER MKT. RD.	REVERE	3	C	Curb, Sidewalk Infill	5,600,000	-	5,600,000	100%
8TH/9TH ST.	8TH/9TH ST NE/SE	FRANKLIN	WILSON	3	C	Sidewalk Infill	200,000	-	200,000	100%
8TH/9TH ST.	8TH ST. SE	WILSON	REED MARKET RD.	3	C	Curb, Sidewalk Infill	600,000	-	600,000	100%
8TH/9TH ST.	8th St., NE	GREENWOOD	FRANKLIN	3	C	Curb, Sidewalk Infill	2,300,000	-	2,300,000	100%
8TH/9TH ST.	9TH ST. SE	WILSON INTERSECTION	N/A	4	A	Single Lane Roundabout	3,100,000	-	3,100,000	100%
8TH/12TH, NW	9TH, NW	TRENTON	NEWPORT	3	C	Sidewalk Infill	200,000	-	200,000	100%
9TH/12TH, NW	12TH, NW	SUMMIT AVE.	TRENTON	3	C	Sidewalk Infill	400,000	-	400,000	100%
AMERICAN LANE	AMERICAN LN. (NEW)	AMERICAN LN. (NEW)	BROSTERHOUS	3	C	Curb, Bike Lanes, Sidewalk Infill	900,000	-	900,000	100%
ARCHIE BRIGGS	ARCHIE BRIGGS RD.	RIVER CROSSING	N/A	5	C	New Bridge	3,000,000	1,500,000	1,500,000	50%
BEAR CREEK	BEAR CK. RD	15 TH ST.	PETTIGREW	3	C	Curb, Bike Lanes, Sidewalk Infill	1,100,000	-	1,100,000	100%
BEAR CREEK	BEAR CK RD	PETTIGREW INT.	N/A	4	B	Single Lane Roundabout	3,100,000	2,375,108	724,892	23%
BLAKELY	BLAKELY RD	BADGER	POWERS	3	C	Curb, Bike Lanes, Sidewalk Infill	1,700,000	-	1,700,000	100%

Table C-1 (Updated June 20, 2018), Exhibit 1  
 2014 Fiscally-Constrained SDC Project List with 2018 Cost Updates  
 Proposed Projects

Corridor	Street Name	From	To	Category (1)	Need (2)	Description	Total \$	NonGrowth \$	Growth \$	Growth %
BOYD ACRES	BOYD ACRES RD	EMPIRE	BUTLER MARKET	3	A	C Curb, Bike Lanes, Sidewalk Infill	8,300,000	5,941,938	2,358,062	28%
BOYD ACRES	BOYD ACRES RD	COOLEY	EMPIRE	3	A	C Curb, Bike Lanes, Sidewalk Infill	8,900,000	-	8,900,000	100%
Brentwood	Brentwood	Whitetail	American Ln	1	A	C New 2 lane collector	2,300,000	-	2,300,000	100%
BRITTA	BRITTA	MARINER	POPLAR	3	C	C Sidewalk Infill	600,000	-	600,000	100%
BROOKSWOOD	BROOKSWOOD	RODGEPOL	POWERS	3	C	C Sidewalk Infill	100,000	-	100,000	100%
BROOKSWOOD	BROOKSWOOD	REED MKT. RD.	AMERICAN LANE	2	B	C New 2- Lane Collector	6,100,000	4,007,558	2,092,442	34%
BROSTERHOUS	BROSTERHOUS	THIRD STREET	MURPHY	3	C	C Curb, Bike Lanes, Sidewalk Infill	1,200,000	-	1,200,000	100%
BROSTERHOUS	BROSTERHOUS	MURPHY	KNOTT	3	C	C Sidewalk Infill	400,000	-	400,000	100%
BROSTERHOUS	BROSTERHOUS	AMERICAN LANE	MURPHY	3	C	C Sidewalk Infill	3,100,000	-	3,100,000	100%
BROSTERHOUS	BROSTERHOUS	KNOTT INTERSECTION	N/A	4	A	C Single Lane Roundabout	3,100,000	-	3,100,000	100%
BUTLER MKT. RD	BUTLER MKT. RD	8TH ST	UGB (2000)	3	C	C Curb, Sidewalk Infill	3,100,000	-	3,100,000	100%
BUTLER MKT. RD	BUTLER MKT. RD	PURCELL INTERSECTION	8TH ST.	3	C	C Sidewalk Infill	200,000	-	200,000	100%
BUTLER MARKET	BUTLER MARKET	WELLS ACRES RD. INT.	N/A	4	A	C Single Lane Roundabout	3,100,000	-	3,100,000	100%
BUTLER MARKET	BUTLER MARKET	WELLS ACRES RD. INT.	N/A	4	B	C Single Lane Roundabout	3,100,000	2,257,609	842,391	27%
CLAUSEN	CLAUSEN DRIVE	(N. TERMINUS)	CLAUSEN DR (E/W)	3	C	C Sidewalk Infill	300,000	-	300,000	100%
COLLEGE/ PORTLAND	COLLEGE WAY	NEWPORT	SAGINAW	3	C	C Sidewalk Infill	100,000	-	100,000	100%
COLLEGE/ PORTLAND	COLLEGE WAY	COLLEGE WAY	WALL ST	3	C	C Curb, Bike Lanes, Sidewalk Infill	1,400,000	-	1,400,000	100%
COLLEGE/ PORTLAND	PORTLAND AVE	WALL ST. INT.	N/A	4	A	C Upgrade Traffic Signal/Intersection	600,000	-	600,000	100%
COLORADO	COLORADO	CENTURY DR.	INDUSTRIAL WAY	3	C	C Bike Lanes, Sidewalk Infill	-	-	-	100%
COLORADO	COLORADO	BOND	PARKWAY	3	C	C Sidewalk Infill	300,000	-	300,000	100%
COLORADO	COLORADO	INDUSTRIAL WAY	BOND	3	C	C Sidewalk Infill	100,000	-	100,000	100%
COLORADO	COLORADO	COLUMBIA INT.	N/A	4	A	C Single Lane Roundabout	3,100,000	-	3,100,000	100%
COLORADO	COLORADO	HUNNEL RD. (E) INT.	N/A	4	A	C Single Lane Roundabout	3,100,000	-	3,100,000	100%
COOLEY	COOLEY RD	HWY 20 (N)	REVERE	3	C	C Curb, Sidewalk Infill	6,800,000	-	6,800,000	100%
DIVISION	DIVISION ST.	PURCELL	BUTLER MARKET RD.	1	A	C New 3- Lane Arterial	7,500,000	-	7,500,000	100%
EMPIRE AVE.	EMPIRE AVENUE	3RD/HWY20 (N)	PARKWAY RAMPS	9	B	C Upgrade 2-lanes to 3-lanes (left turn	2,900,000	2,115,002	784,998	27%
EMPIRE AVE.	EMPIRE AVENUE	18TH ST.	PURCELL	3	B	C Upgrade 2-lanes to 3-lanes (left turn	2,700,000	1,914,837	785,163	29%
EMPIRE AVE.	EMPIRE AVENUE	O.B. RILEY RD.	3RD/HWY20 (N)	3	B	C Upgrade 2-lanes to 3-lanes (left turn	1,500,000	877,960	622,040	41%
EMPIRE AVE.	EMPIRE AVENUE	US 97	SOUTHBOUND RAMP	9	A	C Install Traffic Signal, realignment, ne	2,400,000	-	2,400,000	100%
EMPIRE AVE.	EMPIRE AVENUE	US 97	NORTHBOUND RAMP	9	A	C Widen ramp; add through lanes	1,800,000	-	1,800,000	100%
EMPIRE AVE.	EMPIRE AVENUE	PURCELL INTERSECTION	N/A	4	A	C Multi-lane Roundabout	4,600,000	-	4,600,000	100%
EMPIRE AVE.	EMPIRE AVENUE	3RD/HWY 20(N) INT.	N/A	9	A	C Signal Modification/Lane Addition	1,100,000	-	1,100,000	100%
EMPIRE AVE.	EMPIRE AVENUE	BUTLER MKT. INT.	N/A	4	A	C Upgrade signal to multi-lane roundat	4,600,000	-	4,600,000	100%
EMPIRE AVE.	EMPIRE AVENUE	JAMISON INTERSECTION	N/A	4	B	C Restriction	107,000	63,143	43,857	41%
EMPIRE AVE.	EMPIRE AVENUE	CANAL CROSSING	N/A	5	C	C CANAL CROSSING	3,000,000	2,128,748	871,252	29%
FRANKLIN	FRANKLIN	WALL	PARKWAY	3	C	C Bike Lane Infill (Parking Removal)	200,000	-	200,000	100%
FRANKLIN	FRANKLIN	UNDERCROSSING	N/A	5	C	C Bike Lanes, Sidewalk Infill	300,000	247,870	52,130	17%
GALVESTON	GALVESTON AVE	14TH ST., NW	RIVERSIDE AVE.	3	C	C Complete Street Project	3,900,000	-	3,900,000	100%
GREENWOOD (E)	HWY. 20 (E) / GREENWOOD	12TH ST., NE	N/A	9	C	C Sidewalk Infill	200,000	-	200,000	100%
GREENWOOD (E)	HWY. 20 (E) / GREENWOOD	6TH ST. INT.	N/A	9	C	C Pedestrian Crossing	400,000	-	400,000	100%
GREENWOOD (W)	GREENWOOD AVE	WALL	3RD ST., NE	3	C	C New 5-L Arterial	4,700,000	-	4,700,000	100%
GREENWOOD (W)	NEWPORT	COLLEGE WAY	12TH ST.	3	C	C Sidewalk Infill	300,000	-	300,000	100%
GREENWOOD (W)	GREENWOOD (W)	UGB (2008)	MT. WASHINGTON	3	C	C Multi-use Trail, Curb, Sidewalk Infill	4,400,000	-	4,400,000	100%
GREENWOOD (W)	GREENWOOD (W)	MT. WASHINGTON	COLLEGE WAY	3	C	C Multi-use Trail, Curb, Sidewalk Infill	1,900,000	-	1,900,000	100%
GREENWOOD (W)	HWY 97/Parway	EMPIRE	BUTLER MARKET RD.	9	A	C ODOT FACILITY	3,800,000	2,680,000	1,140,000	30%

Table C-1 (Updated June 20, 2018), Exhibit 1  
 2014 Fiscally-Constrained SDC Project List with 2018 Cost Updates  
 Proposed Projects

Corridor	Street Name	From	To	Category (1)	Need (2)	Description	Total \$	NonGrowth \$	Growth \$	Growth %
JAMISON	JAMISON	EMPIRE	(N. OF N. FIRE STATION)	3	C	Curb, Sidewalk Infill	4,300,000	-	4,300,000	100%
KNOTT	KNOTT RD	CHINA HAT INT.	N/A	4	B	Single Lane Roundabout	3,063,000	2,776,696	286,304	9%
KNOTT	KNOTT RD	COUNTRY CLUB INT.	N/A	4	C	Single Lane Roundabout	3,100,000	-	3,100,000	100%
KNOTT	KNOTT RD	CANAL CROSSING	N/A	5	C	Sidewalk Infill over Canal	700,000	646,751	53,249	8%
MURPHY	MURPHY ROAD	BROSTERHOUS	SE 15TH ST.	1	B	New 2- Lane Collector	5,600,000	3,613,514	1,986,486	35%
MURPHY	MURPHY ROAD	PARRELL ROAD	BROSTERHOUS	2	A	Upgrade 2-lanes to 3-lanes with bike	5,900,000	3,787,008	2,112,992	36%
MURPHY	MURPHY ROAD	COUNTRY CLUB INT.	N/A	4	B	Single Lane Roundabout	3,100,000	2,031,034	1,068,966	34%
MURPHY	MURPHY ROAD	BROSTERHOUS INT.	N/A	4	B	Single Lane Roundabout	3,100,000	1,995,489	1,104,511	36%
NEFF/DOLNEY	NEFF RD	PURCELL INTERSECTION	N/A	4	B	New Traffic Signal/Lane Addition	4,000,000	2,665,714	1,334,286	33%
NEFF/DOLNEY	OLNEY AVE	RAILROAD CROSSING	N/A	6	C	Rail Crossing for Bike Lanes & Side	500,000	368,672	131,328	23%
NW CROSSING	NW CROSSING	SKYLINE RANCH RD.	MT. WASH. DRIVE	7	A	Partial Widening, Curb, Bike Lanes,	1,100,000	-	1,100,000	100%
NW CROSSING	NW CROSSING	SKYLINE RANCH RD.	SKYLINERS	1	A	New 2-lane collector	800,000	-	800,000	100%
PETTIGREW	PETTIGREW	BEAR CREEK RD.	REED MKT. RD.	2	B	New 3- Lane Collector	6,500,000	4,927,735	1,572,265	24%
PONDEROSA/CHINA HAT	LODGEPOLE	MAHOAGANY	POPLAR	3	C	Curb, Bike Lanes, Sidewalk Infill	400,000	-	400,000	100%
PONDEROSA/CHINA HAT	CHINA HAT	CANAL CROSSING	N/A	5	S	Sidewalk Infill over Canal	700,000	595,296	104,704	15%
POWERS/CHASE	CHASE RD	MOWITCH	BROSTERHOUS	1	B	New 2- Lane Collector	7,200,000	4,800,000	2,400,000	33%
POWERS/CHASE	CHASE RD	PARRELL RD.	MOWITCH	2	B	New 2- Lane Collector	1,100,000	774,074	325,926	30%
POWERS/CHASE	POWERS	3RD STREET	BROOKSWOOD	2	B	New 3- Lane Collector	1,000,000	646,586	353,414	35%
POWERS/CHASE	POWERS	3RD ST. INT.	3RD STREET	2	B	New 5- Lane Arterial	4,200,000	2,791,939	1,408,061	34%
POWERS/CHASE	CHASE RD	PARRELL INT.	N/A	4	A	Signal Modification/Lane Addition	700,000	-	700,000	100%
PURCELL	PURCELL BLVD.	YEOMAN ROAD	BUTLER MKT RD.	4	B	Single Lane Roundabout	3,100,000	2,051,799	1,048,201	34%
PURCELL	PURCELL BLVD.	BUTLER MKT. RD.	OCKER DR.	3	C	Curb, Bike Lanes, Sidewalk Infill	1,300,000	707,774	592,226	46%
REED MARKET RD. (E)	REED MKT. RD	SE 3RD ST. INTERSECTION	N/A	3	A	Bike Lane Infill (Parking Removal)	200,000	-	200,000	100%
REED MARKET RD. (E)	REED MKT. RD	BROSTERHOUS/3RD INT.	N/A	4	A	Multi-lane Roundabout	4,600,000	3,395,546	1,204,454	28%
REVERE	REVERE	4TH ST	8th St.	3	C	Sidewalk Infill	200,000	-	200,000	100%
SIMPSON	SIMPSON AVE	MT. WASHINGTON	14TH ST.	3	C	Curb, Bike Lanes, Sidewalk Infill	500,000	-	500,000	100%
SIMPSON	SIMPSON AVE	14TH ST. NW/SW	COLORADO	3	C	Sidewalk Infill	100,000	-	100,000	100%
SIMPSON	SIMPSON AVE	COLORADO INT.	N/A	4	D	Roundabout Upgrade	900,000	641,479	258,521	29%
SIMPSON	SIMPSON AVE	14TH ST. INT.	N/A	4	D	Roundabout Upgrade	900,000	617,604	282,396	31%
SIMPSON	SIMPSON AVE	COLUMBIA INT.	N/A	4	D	Single Lane Roundabout	3,100,000	2,137,267	962,733	31%
WILSON	WILSON	SE 3RD	SE 9TH ST.	2	A	Upgrade to 3-Lane Collector	2,700,000	2,133,803	566,197	21%
WILSON	WILSON	3RD ST. INT.	N/A	4	A	Upgrade Traffic Signal/Intersection	1,000,000	-	1,000,000	100%
WILSON	BRINSON	BOYD ACRES ROAD	BUTLER MKT RD	3	C	Sidewalk Infill	800,000	-	800,000	100%
WILSON	HUNNEL RD	COOLEY RD.	ROBAL LANE	3	C	Sidewalk Infill	300,000	-	300,000	100%
WILSON	ROBAL LANE	HUNNEL	HUNNEL	3	C	Sidewalk Infill	300,000	-	300,000	100%
WILSON	STUDIO RD	4TH ST., NE	BUTLER MARKET RD.	3	C	Curb, Sidewalk Infill	300,000	-	300,000	100%
WILSON	WELLS ACRE RD	BUTLER MKT RD	NE 27TH	3	C	Bike Lane Infill (Parking Removal), \$	1,000,000	-	1,000,000	100%
							285,670,000	91,105,245	195,564,755	68%

(1) Category Legend  
 1 = New Road Construction, 2 = Full Modernization, 3 = Partial Modernization, 4 = Intersection Modernization, 5 = Crossing Structures, 6 = Others, 7 = Completed, 8 = Studies, 9 = ODOT Facility, 10 = TSP Project No Improvement Planned  
 (2) Need Legend  
 A = Capacity, B = Safety, C = Multimodal, D = Other

Table B-2 (Updated June 20, 2018), Exhibit 1  
SDC Project List

Note: Projects that have been completed and moved to this list have been shaded as are shown at the bottom of this list.

Completed Projects

Street Name	From	To	Total \$	NonGrowth \$	Growth \$	Growth %
15TH ST	BEAR CR.	HWY 20	\$2,588,916	\$1,973,723	\$461,390	20%
27TH ST, NE	NEFF ROAD	HWY 20 E	\$3,894,122	\$2,837,513	\$996,609	26%
27TH ST, NE	HWY 20 (E)	BEAR CREEK RD.	\$210,497	\$166,344	\$64,153	26%
AWBREY	MT. WASHINGTON	SAGINAW	\$144,726	\$101,308	\$43,418	30%
BOND	COLORADO AVE.	INDUSTRIAL WAY	\$700,000	\$580,000	\$140,000	20%
BOND	INDUSTRIAL WAY	Reed Market	\$2,623,731	\$2,111,249	\$512,482	20%
BOND	WILSON AVE.	Bond/Wilson Roundabout	\$550,612	\$413,864	\$136,748	25%
WALL ST.	REVERE	PORTLAND	\$125,519	\$102,199	\$23,324	19%
BRITTA	HARDY	MARINER	\$175,002	\$121,665	\$53,337	30%
BUTLER MKT. RD	BRINSON INTERSECTION	N/A	\$182,620	\$130,966	\$51,653	29%
FRANKLIN	3RD ST	4TH ST.	\$470,053	\$389,243	\$80,810	19%
FRANKLIN	4TH ST	8TH ST.	\$650,545	\$542,448	\$108,097	19%
MT. WASHINGTON	PUTNAM	SUMMIT	\$1,144,309	\$852,256	\$292,053	43%
MT. WASHINGTON	SKYLINERS RD.	TROON	\$661,576	\$390,384	\$271,192	41%
OLNEY AVE.	3RD ST., NE	8TH ST.	\$3,168,138	\$2,545,123	\$623,015	22%
NEFF RD.	PURCELL	27TH ST.	\$203,333	\$165,215	\$38,118	19%
OLNEY AVE.	WALL (HILL)	3RD ST., NE	\$785,288	\$625,788	\$159,491	23%
NW CROSSING	MT. WASH. DRIVE	SHEVLIN PARK RD	\$669,556	\$281,214	\$388,342	58%
PURCELL BLVD.	NEFF	HWY 20	\$118,698	\$100,334	\$18,364	15%
REED MKT. RD.	CENTURY DR.	PARKWAY	\$13,706,624	\$9,032,718	\$4,673,906	34%
SKYLINE RANCH ROAD	SKYLINE PARK RD.	SHEVLIN MEADOW PARKWAY	\$380,293	\$305,465	\$74,829	20%
WILSON	BOND ST.	ST 0510	\$2,450,126	\$1,906,266	\$543,860	23%
NEWPORT	MT. WASHINGTON BRIDGE	ST 0503	\$6,532,590	\$4,934,917	\$1,597,673	26%
BUTLER MKT. RD	AWBREY	WALL	\$183,785	\$138,007	\$44,778	26%
EMPIRE AVENUE	BOYD ACRES RD.	N/A	\$3,199,243	\$2,282,633	\$916,610	30%
27TH ST, NE	NEFF RD. INT.	N/A	\$584,263	\$441,324	\$142,940	25%
27TH ST, NE	REED MKT. INT.	ST 0001	\$1,289,468	\$946,609	\$322,859	26%
BUTLER MKT. RD	PURCELL INTERSECTION	ST 0110	\$627,303	\$455,155	\$172,148	29%
COLORADO	SIMPSON INT.	N/A	\$119,284	\$84,876	\$33,408	29%
PORTLAND AVE	HILL INT.	ST 0104	\$236,690	\$183,085	\$53,604	24%
REED MKT. RD.	15TH ST. INT. DESIGN	ST 2007, ST 0618	\$748,822	\$554,119	\$194,702	27%
GALVESTON AVE	14TH INT.	ST 0207	\$508,284	\$381,392	\$146,892	31%
SIMPSON AVE	14TH INT.	ST 0208	\$246,862	\$170,457	\$76,405	31%
NEWPORT	COLLEGE WAY INT.	ST 0209	\$729,542	\$476,479	\$253,063	37%
BUTLER MKT. RD	8TH ST. INT.	ST 0225	\$115,671	\$86,397	\$29,274	26%
NEWPORT	9TH ST. INT.	ST 0302	\$640,827	\$445,160	\$195,667	33%
HWY 20	PURCELL INTERSECTION	GR 9704	\$141,200	\$108,256	\$32,944	23%
COOLEY RD.	HWY 97 INT. STUDY	UR 0801	\$13,582	\$9,860	\$3,722	28%
18TH ST.	HWY 97 INT. STUDY	UR 0701	\$97,453	\$65,234	\$12,219	13%
ARIZONA/COLORADO	COUPLER	ST 0318	\$3,692,451	\$2,695,489	\$996,962	27%
18TH ST.	SAFETY	ST 0316	\$107,933	\$75,553	\$32,380	30%
GREENWOOD AVE	10TH ST.	PROVIDENCE	\$1,232,476	\$997,019	\$235,457	21%
EMPIRE AVENUE	EXTENSION PHASE 1	ST 0526	\$1,381,629	\$958,500	\$423,129	32%
EMPIRE AVENUE	MEADOW	DESERT LANE	\$500,950	\$346,743	\$154,207	32%

**Table B-2 (Updated June 20, 2018), Exhibit 1**  
**SDC Project List**  
**Completed Projects**

Note: Projects that have been completed and moved to this list have been shaded and are shown at the bottom of this list.

Street Name	From	To	Total \$	NonGrowth \$	Growth \$	Growth %
NEFF ROAD	NEFF CORRIDOR 12-27	N/A	\$168,779	\$136,357	\$32,422	20%
MTN. NEER	HICI	N/A	\$349,517	\$215,189	\$134,328	39%
GALVESTON AVE	REVERSE	17TH ST.	\$168,053	\$125,082	\$42,971	28%
MURPHY ROAD	EXTENSION TO 15TH ST. DESIC	N/A	\$979,262	\$651,889	\$347,373	35%
REED MKT. Corridor			\$1,179,535	\$771,318	\$402,217	34%
Mt Washington Drive	Awbrey Village	Brooks Resources	\$59,855	\$41,899	\$17,957	30%
American Lane	American Lane Industrial Park	American Lane In	\$128,497	\$89,948	\$38,549	30%
20 & 27th	20 & 27th turn lane	Baney Corporation	\$148,958	\$104,271	\$44,687	30%
Brentwood and Brosterhaus	Brentwood	Bend Developer	\$136,021	\$95,215	\$40,806	30%
27th Street	Bridgcliff/Gallagher/Desert Skies	GMK Developmen	\$35,830	\$25,081	\$10,749	30%
American Lane	Carmen Loop - 20662		\$17,975	\$12,583	\$5,393	30%
Robal and Hunnel Rd	Cascade Village/Mountain View	SIMA Mountain Vi	\$162,618	\$127,833	\$34,785	30%
Chase Street	Chase Village	Kenneth and Kristi	\$49,872	\$34,911	\$14,962	30%
Regency Drive	Copperstone at Awbrey Glen	Pennbrook Comps	\$93,547	\$65,483	\$28,064	30%
Wilson & 97th	Del Taco	Canyon Park Prop	\$16,222	\$11,356	\$4,867	30%
Empire Ave	East Empire Business Park	No collections as i	\$168,767	\$118,137	\$50,630	30%
Hunnell & Cooley Rd	Empire Village	NOVA land Comp	\$199,848	\$139,894	\$59,954	30%
Purcell	Highland Commercial Pk	Bass Lake Investc	\$317,398	\$222,179	\$95,220	30%
Purcell & Yeoman	Holiday Park, 3rd Addition	Purcell, Clyde and	\$141,228	\$98,860	\$42,368	30%
Skyliners Road	Lava Ridges	West Coast Devel	\$380,790	\$266,553	\$114,237	30%
Reed Market	Miller Elementary School	Brooks Lapine Schc	\$114,953	\$80,457	\$34,496	30%
Beall Drive	Mt Bachelor Village	Brooks Resources	\$11,202	\$7,842	\$3,361	30%
Brookwood	Oakview Ph 8 & 9	Deschco Ltd	\$105,606	\$73,924	\$31,682	30%
Murphy Road	Poplar Park	Tumac Mountain t	\$36,315	\$25,421	\$10,895	30%
Parrell Rd	Shady Pines Estates	Solomon Construc	\$36,388	\$25,471	\$10,916	30%
Parrell Rd	Stonehaven	Maybery Group	\$7,711	\$5,398	\$2,313	30%
Brosterhaus Rd	South Village	Diamond Built Hor	\$35,958	\$25,171	\$10,788	30%
Brosterhaus Rd	South Point	South Point, LLC	\$4,901	\$3,431	\$1,470	30%
Copperfield Ave	Sun Meadow	Big Sky Meadows	\$219,965	\$153,976	\$65,990	30%
Shevlin Park Rd	Sundance Meadows	Triad Homes, Inc	\$30,059	\$21,041	\$9,018	30%
Mt. Washington Drive & Century	Three Pines/Shevlin Commons	David McClain	\$134,274	\$93,992	\$40,282	30%
Brookwood & Powers	Village at Southern Crossing	McGregor Comm I	\$23,016	\$16,111	\$6,905	30%
Reed Mkt/Century Drive and Reed Mkt/Mt Bachelor Village Roundabouts	Millbrook Estates	Brookwood Partne	\$131,305	\$91,914	\$39,392	30%
Round-a-bouts = NW Crossing/Mt. Washington, Shevlin Park/Mt. Washington, Skyline/Mt. Washington, Galveston/14th and Newport/9th, Also, Skyliner Road widening.		Brooks Resources	\$1,060,955	\$694,926	\$366,029	35%
Mt. Washington Drive, 14th & Galveston roundabout, Reed Market/Century Drive, Skyliner Road widening and Mt. Washington/Skyliner Roundabout		West Bend Proper	\$1,673,007	\$936,884	\$736,123	44%
14th/Simpson Roundabout, Century Drive/Median		Broken Top	\$1,117,960	\$704,327	\$413,632	37%
Shevlin Park Road and Roundabout @ Newport		Century Park LLC	\$846,970	\$584,829	\$262,141	31%
Reed Mkt/Century Drive		Westside Meadow	\$130,675	\$79,712	\$50,963	39%
27TH ST. NE	BUTLER MKT. RD.	River Bend LP	\$221,893	\$148,668	\$73,225	33%
3RD ST. SE	WILSON	Sidewalk Infill	\$0,000	\$0	\$0	100%
3RD ST. SE	DIVISION (S)	Curb Sidewalk Inr	\$0	\$0	\$0	100%
8th St. NE	POWERS	Curb Sidewalk Inr	\$0	\$0	\$0	100%
Brentwood	GREENWOOD INT.	Full Signal/Inlase	\$0	\$0	\$0	100%
RIVERSIDE	Existing Brentwood	New 2 lane collect	\$0	\$0	\$0	100%
HWY. 20 (E) / GREENWOOD	GALVESTON	Bike Lane Infill (Pt	\$0	\$0	\$0	100%
	27TH ST.	Curb, Bike Lanes.	\$0	\$0	\$0	100%

Table B-2 (Updated June 20, 2018), Exhibit 1  
 SDC Project List  
 Completed Projects

Note: Projects that have been completed and moved to this list have been shaded ad are shown at the bottom of this list.

Street Name	From	To	Total \$	NonGrowth \$	Growth \$	Growth %
LEWIS	NW CROSSING	SKYLINERS	900,000	\$0	\$900,000	100%
MURPHY ROAD	RAILROAD CROSSING	N/A	11,400,000	\$7,358,081	\$4,043,919	35%
NEFF RD/PENN	8TH ST	PURCELL	1,400,000	\$1,115,526	\$284,474	20%
Skyline Ranch Rd	NW CROSSING	SKYLINERS	700,000	\$0	\$700,000	100%
Reimbursement Projects			\$94,625,147	\$60,444,287	\$34,027,055	36%