



APPENDIX E

DVRPC Local Program



DVRPC LOCAL PROGRAM

One of the funding sources in the DVRPC TIP is noted as federal STBGP-STU funds. “STBGP” (formerly known as “STP”) stands for the Surface Transportation Block Grant Program, and “STU” stands for the urban allocation of these funds for DVRPC, an MPO region with a population over 200,000, per federal regulation. These funds are typically used for locally generated projects, not for NJDOT state-sponsored projects, and make up what is commonly referred to as the “DVRPC Local Program.” An exchange of STBGP program funds for state funds among the three New Jersey MPOs (DVRPC, NJTPA, and SJTPO) and NJ TRANSIT first occurred in FY2014.

During federal FY 2014 through FY2017, \$355,438,000 of STBGP sub-allocated funding (federal funds dedicated for MPO assignment) was made available annually for NJ TRANSIT’s use from the MPOs. In return, an equal amount of State Transportation Trust Fund (TTF) funding was made available for MPO assignment. The Program Exchange for DVRPC from FY2014 to FY2017 entailed exchanging a total of \$43,438,000 state TTF (“STATE-DVRPC”) for an equal portion of DVRPC’s STBGP-STU federal funds for local projects in the TIP. In FY2018, the Program Exchange for DVRPC will entail exchanging \$15,000,000 of DVRPC’s STBGP-STU funds for \$15,000,000 state TTF (STATE-DVRPC) funds for DVRPC’s local projects.

This exchange will not result in any loss or gain of funds. Some of the historically funded STBGP-STU federal projects will advance with state rather than federal funds. The state funds provided to DVRPC will not be administered the same way as the existing state funded County and Local Municipal Aid Programs but will instead more closely resemble the existing Federal Aid program. Local projects will be evaluated to determine whether they should advance with state or federal funds, and the program exchange funding levels for the DVRPC region has varied since FY2014 depending on the exact amount of STBGP sub-allocation, the annual state TTF appropriation, and on the evaluation of which funding type (federal or state) is most appropriate for a given project. Projects in the TIP document that are designated to be funded with state program exchange funds are noted as “STATE-DVRPC” in project records. A DVRPC Local Program Report is included in this section to identify anticipated funding sources for particular projects.

An MOU (Memorandum of Understanding) was developed to outline the general parameters of the exchange of program funds among those agencies for implementing capital projects in the NJ TIPs for the New Jersey MPOs (DVRPC, SJTPO, and NJTPA) and the State Transportation Improvement Program (STIP). Anticipated benefits resulting from this exchange of program funds are:

- more flexible schedules for state obligation and ability to “roll over” funds from one FY to the next. This is because TTF funds do not face the same expiration and obligation deadlines that federal funds do.
- federal STBGP funds are beneficial for NJ TRANSIT’s use in its capital program.
- funding subregional projects with TTF funds eliminates the risk of federal inactivity. New Jersey’s rate of inactivity is higher than most states.

YEAR OF EXPENDITURE (Y-O-E) PROGRAMMING FOR DVRPC LOCAL PROJECTS

TIPs are federally required to show future construction cost estimates by using year-of-expenditure (Y-O-E) dollars. Y-O-E dollars are intended to demonstrate an adjustment for inflation for project costs from the present time to the expected year of construction. Programming estimated project costs in the DVRPC Local Program with Y-O-E dollars ensures that more accurate cost estimates are used in planning, programming and implementation of those projects. It also avoids underestimating project costs overtime. For the DVRPC Local Program in the TIP, a 3 percent inflation rate was applied to a project's base construction cost estimate to reflect its Y-O-E costs, if the project construction is programmed after the second year of the TIP (FY 2020-2027) since the TIP is updated every two years, and there is frequent opportunity to update project costs.

The kinds of projects that are not adjusted for inflation are listed as follows:

- projects that are selected from a Competitive Program (e.g. Transportation Alternatives Program, DVRPC Regional Trails Program, DVRPC CMAQ Competitive Program);
- discretionary funded projects (e.g. "High-Priority," earmark);
- local match;
- capital maintenance projects that are "replacements in-kind," such as bus replacements/purchases, transit facilities maintenance, paving or reconstructing roads, or rehabilitating or replacing bridges with no increase in the capacity of the current system; for County Bus Purchases, the costs are based on NJ TRANSIT's last vehicle procurement, with a 5 percent increase to account for the anticipated chassis increase that occurs every year;
- STATE-DVRPC funded construction phases (since no program exchange funds have been agreed to continue after FY2018);
- costs for pre-construction phases;
- projects with their total construction cost cash-flowed over multiple years; and
- federal PL or PL-FTA funded projects.

DVRPC applied a 3 percent inflation rate during the development of the TIP and Long-Range Plan, which was informed by these four indices: the National Highway Construction Cost Index, the Producer Price Index for Construction Materials Special Index, the Consumer Price Index for all urban areas (CPI-U all urban areas), and the Consumer Price Index for the greater Philadelphia area (CPI-U Philadelphia-Wilmington-Atlantic City). Further, as project construction costs and schedule shift overtime, resulting in TIP modifications, Y-O-E cost will not be adjusted with every TIP modification throughout the life of the TIP.

Inflation is calculated by using the formula, $P_n = P(1+i)^n$, where

- P_n is the Total Inflated Estimated Cost shown in the TIP;
- P is the *base* estimated cost provided by the project sponsor;
- i is the 3 percent inflation rate;
- n is the difference between base year and program year; and
- $(1+i)^n$ is the inflation factor.

This formula reflects the new inflation prices from each previous value calculated. If the current estimated construction cost of a project is \$100,000, and construction is programmed in FY21, the base

year is 2017; the future year is 2021. The initial cost (P) is \$100,000; inflation rate (i) is 3 percent (or 0.03); and (n) is 4 (2021 minus 2017). Therefore, P_n is $\$100,000 (1+0.03)^4 = \$112,551$. \$0.113 million (for \$113,000) would be programmed for this project's construction phase in FY21 because the TIP shows project costs in millions. Note that in the DVRPC Regional Highway and NJDOT Statewide Program, NJDOT's construction cost estimates are escalated to the mid-point of construction to address YOE dollars. NJDOT also uses the Cost Estimation System software to prepare more accurate and consistent construction cost estimates.

DVRPC FY2018 TIP FOR NEW JERSEY

DVRPC LOCAL PROJECTS

Burlington																		
<i>PHASE</i>	<i>FUND</i>	<i>FY14</i>	<i>FY15</i>	<i>FY16</i>	<i>FY17</i>	<i>FY18</i>	<i>FY19</i>	<i>FY20</i>	<i>FY21</i>	<i>FY22</i>	<i>FY23</i>	<i>FY24</i>	<i>FY25</i>	<i>FY26</i>	<i>FY27</i>	<i>FY14-27</i>	<i>FY18-21</i>	<i>FY18-27</i>
D0302 Burlington County Roadway Safety Improvements																		
EC	17-STATE-DVRPC					0.476										0.476	0.476	0.476
EC	STBGP-STU					0.914		0.800		0.800		1.000		1.000		4.514	1.714	4.514
D1401 Burlington County ATMS Upgrade & CR 656 DMS Deployment																		
CON	14-STATE-DVRPC					0.100										0.100	0.100	0.100
CON	15-STATE-DVRPC					1.897										1.897	1.897	1.897
CON	17-STATE-DVRPC					1.718										1.718	1.718	1.718
D1804 CR 537, CR 628, and CR 660 Guiderail Installation																		
CON	17-STATE-DVRPC					0.000	1.700									1.700	1.700	1.700
D1905 Traffic Signal and ATMS Replacement and Upgrade Project																		
CON	STBGP-STU						0.000	2.000								2.000	2.000	2.000
D9902 Hanover Street Bridge over Rancocas Creek, CR 616																		
CON	14-STATE-DVRPC					0.000										0.000	0.000	0.000
CON	16-STATE-DVRPC					0.000										0.000	0.000	0.000
CON	STBGP-STU					5.764										5.764	5.764	5.764
D9903 Smithville Road Bridge over Rancocas Creek, CR 684																		
CON	16-STATE-DVRPC					4.836										4.836	4.836	4.836
CON	17-STATE-DVRPC					0.000										0.000	0.000	0.000
Camden																		
<i>PHASE</i>	<i>FUND</i>	<i>FY14</i>	<i>FY15</i>	<i>FY16</i>	<i>FY17</i>	<i>FY18</i>	<i>FY19</i>	<i>FY20</i>	<i>FY21</i>	<i>FY22</i>	<i>FY23</i>	<i>FY24</i>	<i>FY25</i>	<i>FY26</i>	<i>FY27</i>	<i>FY14-27</i>	<i>FY18-21</i>	<i>FY18-27</i>
D0410 Camden County Roadway Safety Improvements																		
EC	STBGP-STU					0.550	0.200	0.600	0.200	0.600	0.300	0.700	0.300	0.700	0.300	4.450	1.550	4.450
D0601 Camden County Bus Purchase																		
EC	CMAQ					0.000		0.934		0.934		0.934		0.934		3.736	0.934	3.736
D1402 Grove Street (CR 644), Reconstruction																		
CON	14-STATE-DVRPC		0.600													0.600	0.000	0.000

Camden

PHASE	FUND	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY14-27	FY18-21	FY18-27	
CON	15-STATE-DVRPC	0.483														0.483	0.000	0.000	
D1505 ADA Improvements																			
CON	17-STATE-DVRPC					6.900										6.900	6.900	6.900	
CON	18-STATE-DVRPC					0.000										0.000	0.000	0.000	
D1707 Cooper Street Pedestrian Access Project (TIGER)																			
CON	DEMO					2.143										2.143	2.143	2.143	
CON	OTHER					1.257										1.257	1.257	1.257	
D1708 Cooper's Poynt Roads Reconstruction Project (TIGER)																			
CON	DEMO					14.056										14.056	14.056	14.056	
CON	OTHER					3.761										3.761	3.761	3.761	
D1709 Kaighn Avenue (CR 607), Bridge over Cooper River (Roadway and Bridge Improvements)																			
CON	STBGP-STU							0.000					8.051			8.051	0.000	8.051	
DES	STBGP-STU						0.000	0.775								0.775	0.775	0.775	
PE	17-STATE-DVRPC					0.000										0.000	0.000	0.000	
PE	STBGP-STU						1.180									1.180	1.180	1.180	
D1903 CR 720 (Blue Anchor Road), Route 73 to CR 536 (Cedarbrook/New Brooklyn Road)																			
CON	STBGP-STU						1.712									1.712	1.712	1.712	
D1904 Thorndyke Street (Route 30/Admiral Wilson Boulevard to Marlton Pike) and Maplewood Street (Thorndyke Street to Somerset)																			
CON	STBGP-STU						1.111									1.111	1.111	1.111	

Gloucester

PHASE	FUND	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY14-27	FY18-21	FY18-27	
D0401 Gloucester County Roadway Safety Improvements																			
EC	15-STATE-DVRPC				0.069											0.069	0.000	0.000	
EC	16-STATE-DVRPC				0.543											0.543	0.000	0.000	
EC	STBGP-STU						0.700		0.800		1.000		1.000		1.000	4.500	1.500	4.500	
D1203 Gloucester County Multi-Purpose Trail Extension - Glassboro Elk Trail																			
CON	16-STATE-DVRPC						2.000									2.000	2.000	2.000	
ROW	14-STATE-DVRPC						1.000									1.000	1.000	1.000	
ROW	15-STATE-DVRPC						0.000									0.000	0.000	0.000	
D1508 Holly Avenue (CR 624), Lambs Road (CR 635) to Rt 47 (Delsea Drive)																			

Gloucester

PHASE	FUND	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY14-27	FY18-21	FY18-27
CON	15-STATE-DVRPC				0.561											0.561	0.000	0.000
CON	16-STATE-DVRPC				0.024											0.024	0.000	0.000
CON	17-STATE-DVRPC				0.002											0.002	0.000	0.000
D1509	CR 553/CR553 Alt, East Ave to Lambs Rd (CR 635) and Lambs Road, CR 635 to CR 553																	
CON	14-STATE-DVRPC				3.750											3.750	0.000	0.000
CON	15-STATE-DVRPC				0.053											0.053	0.000	0.000
CON	16-STATE-DVRPC				0.008											0.008	0.000	0.000
D1805	CR610 (Clayton-Williamstown Road), Scotland Run Avenue to CR 555 (Tuckahoe Road)																	
CON	15-STATE-DVRPC						0.000									0.000	0.000	0.000
CON	16-STATE-DVRPC						1.898									1.898	1.898	1.898
CON	17-STATE-DVRPC					0.000										0.000	0.000	0.000
D1902	Gloucester County First-Generation Traffic Signal Camera Upgrades																	
CON	STBGP-STU						2.858									2.858	2.858	2.858
D9807	Gloucester County Bus Purchase																	
EC	CMAQ					0.000	0.238			0.238		0.238		0.238		0.952	0.238	0.952

Mercer

PHASE	FUND	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY14-27	FY18-21	FY18-27
99362	Trenton Amtrak Bridges																	
CON	STBGP-STU									4.149	9.000	12.751				25.900	0.000	25.900
DES	14-STATE-DVRPC						1.500									1.500	1.500	1.500
DES	15-STATE-DVRPC						0.500									0.500	0.500	0.500
PE	14-STATE-DVRPC				0.950											0.950	0.000	0.000
ROW	15-STATE-DVRPC							2.200								2.200	2.200	2.200
UTL	STBGP-STU									6.000	9.800					15.800	0.000	15.800
D0412	Mercer County Roadway Safety Improvements																	
EC	16-STATE-DVRPC					0.000										0.000	0.000	0.000
EC	STBGP-STU						1.300		0.800		0.800		1.000		1.000	4.900	2.100	4.900
D0701	Princeton-Hightstown Road Improvements, CR 571																	
CON	18-STATE-DVRPC					0.000	5.000	5.000								10.000	10.000	10.000

Mercer

<i>PHASE</i>	<i>FUND</i>	<i>FY14</i>	<i>FY15</i>	<i>FY16</i>	<i>FY17</i>	<i>FY18</i>	<i>FY19</i>	<i>FY20</i>	<i>FY21</i>	<i>FY22</i>	<i>FY23</i>	<i>FY24</i>	<i>FY25</i>	<i>FY26</i>	<i>FY27</i>	<i>FY14-27</i>	<i>FY18-21</i>	<i>FY18-27</i>	
DES	15-STATE-DVRPC		0.800				0.100									0.900	0.100	0.100	
DES	16-STATE-DVRPC						0.006									0.006	0.006	0.006	
D0702 Mercer County Signal Project, CR 533																			
CON	14-STATE-DVRPC				6.000											6.000	0.000	0.000	
CON	16-STATE-DVRPC				0.500											0.500	0.000	0.000	
D1011 Mercer County Bus Purchase																			
EC	CMAQ					0.000	0.707			0.707		0.707		0.707		2.828	0.707	2.828	
D1507 Signal Upgrades																			
CON	14-STATE-DVRPC					1.000										1.000	1.000	1.000	
D1511 Mercer County Guiderail Inventory and Condition Assessment																			
PLS	14-STATE-DVRPC		1.000			0.100										1.100	0.100	0.100	
D1703 Princeton Bicycle Parking Infrastructure																			
CON	CMAQ					0.196	0.000									0.196	0.196	0.196	
D1710 Lincoln Ave/Chambers Street (CR 626), Bridge over Amtrak & Assunpink Creek																			
CON	STBGP-STU							11.000	19.000	8.415	0.000					38.415	30.000	38.415	
FD	STBGP-STU						2.500									2.500	2.500	2.500	
PE	STBGP-STU					1.250										1.250	1.250	1.250	
D1901 Mercer County's Electronic Traffic Control Devices Inventory																			
PLS	17-STATE-DVRPC						0.225									0.225	0.225	0.225	
L064 Route 206, South Broad Street Bridge over Assunpink Creek																			
CON	STBGP-STU						0.000	7.100								7.100	7.100	7.100	
UTL	STBGP-STU							1.750								1.750	1.750	1.750	

Various

<i>PHASE</i>	<i>FUND</i>	<i>FY14</i>	<i>FY15</i>	<i>FY16</i>	<i>FY17</i>	<i>FY18</i>	<i>FY19</i>	<i>FY20</i>	<i>FY21</i>	<i>FY22</i>	<i>FY23</i>	<i>FY24</i>	<i>FY25</i>	<i>FY26</i>	<i>FY27</i>	<i>FY14-27</i>	<i>FY18-21</i>	<i>FY18-27</i>	
01300 Transportation Systems Management and Operations (TSMO)																			
EC	STBGP-STU					0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	0.234	2.340	0.936	2.340	
04314 Local Safety/ High Risk Rural Roads Program																			
ERC	HSIP					3.000	3.000	3.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	37.000	13.000	37.000	
06326 Local Concept Development Support																			
PLS	STBGP-STU					0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	7.000	2.800	7.000	
10347 Local Aid Consultant Services																			

Various

PHASE	FUND	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY14-27	FY18-21	FY18-27
EC	STBGP-STU					0.200			0.200		0.200		0.200		0.200	1.000	0.400	1.000
11383 Transportation Management Associations																		
EC	STBGP-STU					2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	20.000	8.000	20.000
D0204 Transportation and Community Development Initiative (TCDI) DVRPC																		
EC	STBGP-STU					0.680	0.105	0.680	0.105	0.680	0.105	0.680	0.105	0.680	0.105	3.925	1.570	3.925
D026 DVRPC, Future Projects																		
ERC	14-STATE-DVRPC					0.000										0.000	0.000	0.000
ERC	15-STATE-DVRPC					0.000										0.000	0.000	0.000
ERC	16-STATE-DVRPC					0.083										0.083	0.083	0.083
ERC	17-STATE-DVRPC					0.479										0.479	0.479	0.479
ERC	18-STATE-DVRPC					3.500										3.500	3.500	3.500
ERC	STBGP-STU					0.486	3.100	0.791	0.276	1.025	1.163	7.296	12.741	21.348	21.865	70.091	4.653	70.091
D0406 RideECO Mass Marketing Efforts--New Jersey																		
EC	CMAQ					0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.500	0.200	0.500
D0407 Ozone Action Program in New Jersey																		
EC	CMAQ					0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.400	0.160	0.400
D1503 New Jersey Pavement Management System																		
PLS	STBGP-STU					0.000										0.000	0.000	0.000
D1601 New Jersey Regional Signal Retiming Initiative																		
PLS	CMAQ					0.000	0.350									0.350	0.350	0.350
D1706 Regional Sidewalk Inventory and Online Walkability Engagement Platform																		
PLS	STBGP-STU					0.100										0.100	0.100	0.100
X065 Local CMAQ Initiatives																		
EC	CMAQ					0.229	1.560	2.031	1.910	2.031	6.010	2.231	2.110	2.231	2.410	22.753	5.730	22.753
X30A Metropolitan Planning																		
PLS	18-STATE-DVRPC					1.500										1.500	1.500	1.500
PLS	PL					2.431	2.482	2.538	2.538	2.538	2.538	2.538	2.538	2.538	2.538	25.217	9.989	25.217
PLS	PL-FTA					0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	7.000	2.800	7.000
PLS	STBGP-STU					1.195	1.850	1.600	1.600	1.600	1.600	1.850	1.600	1.600	1.600	16.095	6.245	16.095