

TIP Selection Subcommittee Participants and Meeting Materials



**CHATTANOOGA-HAMILTON COUNTY / NORTH GEORGIA
TRANSPORTATION PLANNING ORGANIZATION (TPO)
TIP CRITERIA SELECTION SUBCOMMITTEE**

April 14, 2011 (11:00 AM)

A G E N D A

- 1. Introductions**
- 2. Overview of the TIP Selection Process**
- 3. Discussion on Scoring Criteria**
- 4. Overview of Provided Materials in the Packet**
- 5. Lunch, Discussion, and Ranking of Projects**
- 6. Final List of Recommended Projects**
- 7. Adjourn.**



CHATTANOOGA-HAMILTON COUNTY/NORTH GEORGIA
TRANSPORTATION PLANNING ORGANIZATION (TPO)

TPO TECHNICAL COORDINATING COMMITTEE (TCC)

April 14th, 2011 Supplemental Call for Projects

2011-2014 TIP SELECTION CRITERIA SUB-COMMITTEE

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FISCAL YEAR 2011 CHATTANOOGA-HAMILTON COUNTY/NORTH GEORGIA CALL FOR PROJECTS - TENNESSEE PORTION ONLY

Summary

In the 2011-2014 Transportation Improvement Program (TIP), there are groupings (formerly known as "buckets") for 3R Improvements (resurfacing/preventative maintenance), Intersection Improvements, Complete Streets (bicycle, pedestrian, and ADA projects), Cost Overruns, and Transit (bus purchases). In the supplemental call for projects, we received the following projects, listed below. These projects include six 3R Improvement projects, three Intersection Improvement projects, four Complete Streets projects, three Cost Overrun projects, and one Transit project. Also submitted was a change in total project cost and phasing for a Major Construction project (Central Avenue Extension), which does not fall in any of the groupings, and has its own existing page in the TIP.

Date Received	Project Name	Project Description	Estimated Cost	Project Sponsor	Sponsor Prioritization
3/15/2011	Hixson Pike at Thrasher Pike Signalization	Installation of traffic signal on Hixson Pike (SR 319) at Thrasher Pike. Traffic is currently controlled with a stop sign for Thrasher Pike.	\$ 150,000	Hamilton County	2
3/25/2011	ADA Retrofitting	The City will initiate ADA retrofitting at 42 intersections along Ringgold Road from South Seminole Drive to I-75. The retrofitting includes adding curb ramps to applicable intersections, pedestrian pedestal poles with pushbuttons, striping for crosswalks and necessary signage. Some stripe removal to accommodate for the added crosswalks will also be conducted.	\$ 684,000	City of East Ridge	1
3/28/2011	Purchase of Hybrid Electric and Electric Shuttle Vehicles for Replacement	CARTA is requesting funds for the purchase of two hybrid electric vehicles and four electric shuttle vehicles to replace existing aging vehicles.	\$ 2,000,000	CARTA	1
3/30/2011	College Drive East to Apison Pike	Cost overrun from previous TIP, TN01-MC019. Realign College Drive East to improve grades and sight distances at railroad crossings, add left hand turn lanes on College Drive East and Appison Pike.	\$ 250,000	City of Collegedale	1
3/30/2011	Pedestrian Facilities	Cost overrun from previous TIP. ARRA funded pedestrian improvements.	\$ 10,000	City of Collegedale	2
3/30/2011	Dayton Pike / Sequoyah Road traffic signal / Intersection Improvement	Replace and install new four (4) mast arm poles, six (6) 3 section fixtures, four (4) 5 section fixtures, video actuated control system, conduit, wire, some new thermoplastic striping. All engineering, design and construction costs are included in this estimate. No further right of way acquisition is required.	\$ 156,000	City of Soddy-Daisy	1
3/30/2011	Sequoyah Road / Highway 27 traffic signal / Intersection Improvement	Replace and install new four (4) mast arm poles, four (4) 3 section fixtures, four (4) 5 section fixtures, video actuated control system, conduit, wire, some new thermoplastic striping. All engineering, design and construction costs are included in this estimate. No further right of way acquisition is required.	\$ 146,000	City of Soddy-Daisy	2
3/30/2011	Montlake Road Resurfacing	Milling of existing roadway, resurfacing and striping to include signage. Engineering and project management to be provided by TDOT.	\$ 232,000	City of Soddy-Daisy	3
3/30/2011	Dallas Hollow Resurfacing	Milling and resurfacing of roadway to include striping, signage and guardrail.	\$ 251,700	City of Soddy-Daisy	4
3/30/2011	Mountain Road Resurfacing	Milling and resurfacing roadway to include striping, signage and guardrail.	\$ 193,200	City of Soddy-Daisy	5
4/1/2011	Stabilization/ Resurfacing Newberry Street@DaytonBlvd.	Stabilizing/Resurfacing Intersection	\$ 89,750	City of Red Bank	1
4/1/2011	Dayton Boulevard Sidewalks	Sidewalk extension from Greenleaf Street to Newberry Street	\$ 255,000	City of Red Bank	2
4/1/2011	Resurfacing /Dayton Boulevard	Resurfacing Dayton Boulevard from Memorial Boulevard to Greenleaf Street. [app. 1.20 miles]	\$ 546,500	City of Red Bank	3
4/1/2011	Ashland Terrace Sidewalk Project	Sidewalk on Ashland Terrace from Knollwood Drive to Bank Street.	\$ 238,000	City of Red Bank	4
4/1/2011	L E D Signal Heads Upgrades	Lights upgraded : Dayton Blvd@Signal Mountain, Dayton Blvd@Morrison Springs, Dayton Blvd@Ashland Terrace, Morrison Springs@Red Bank School, Morrison Springs@HWY 27	\$ 86,000	City of Red Bank	5
4/1/2011	Downtown Riverwalk Phase I and II (existing project)	Provide expanded pedestrian and bicycle facilities, acquisition of scenic or historic easements and sites, and landscaping and scenic beautification from to the existing Downtown Riverwalk Phase I and II project - Ross' Landing to St. Elmo.	\$ 3,500,000	Hamilton County	1
4/6/2011	Ashland Terrace Cost Overrun	Pay for cost overruns.	\$ 2,176,000	City of Chattanooga	1
4/6/2011	Central Avenue Extension (3rd St to Riverside Dr.)	2-lane extension from 3rd St to Riverside Drive.	\$ 341,636	City of Chattanooga	5
Grand Total:			\$ 11,305,786		
3/22/2011	Prospect Church Road	Bridge replacement, widen pavement, improve intersection alignment, shoulder improvements, add curb and gutter, sidewalks and lighting, improve sight distances on 1.4 miles of existing roadway.	\$ 2,297,338	City of Collegedale	This project was withdrawn by the City of Collegedale.

TIP SELECTION PROCESS PROJECTS BY GROUPINGS

Total amount to be programmed:	\$ 10,788,394	Federal Funding:	\$ 8,630,716
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Date Received	Project Name	Project Description	Estimated Cost	Federal Funding	Local Funding	Project Sponsor	Sponsor Prioritization	TIP Selection Criteria Score	LRTP Goals Score	TIP Selection Subcommittee Rankings
4/6/2011	Ashland Terrace Cost Overrun	Pay for cost overruns.	\$ 2,176,000	\$ 1,740,800	\$ 435,200	City of Chattanooga	1			
3/30/2011	College Drive East to Apison Pike	Cost overrun from previous TIP, TN01-MC019. Realign College Drive East to improve grades and sight distances at railroad crossings, add left hand turn lanes on College Drive East and Appison Pike.	\$ 250,000	\$ 200,000	\$ 50,000	City of Collegedale	1			
3/30/2011	Pedestrian Facilities	Cost overrun from previous TIP. ARRA funded pedestrian improvements.	\$ 10,000	\$ 8,000	\$ 2,000	City of Collegedale	2			
Grand Total of Cost Overrun Projects:			\$ 2,436,000							
Leftover Funds for Other Submitted Projects:			\$ 8,352,394							

Total Funding for Existing TIP Projects:	\$ 3,841,636
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4/6/2011	Central Avenue Extension (3rd St to Riverside Dr.)	2-lane extension from 3rd St to Riverside Drive.	\$ 341,636	\$ 273,309	\$ 68,327	City of Chattanooga	2	57.0%	5	
4/1/2011	Downtown Riverwalk Phase I and II (existing project)	Provide expanded pedestrian and bicycle facilities, acquisition of scenic or historic easements and sites, and landscaping and scenic beautification from the existing Downtown Riverwalk Phase I and II project - Ross' Landing to St. Elmo.	\$ 3,500,000	\$ 2,800,000	\$ 700,000	Hamilton County	1	82.5%	19	

Total Funding for Transit Grouping:	\$ 2,000,000
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3/28/2011	Purchase of Hybrid Electric and Electric Shuttle Vehicles for Replacement	CARTA is requesting funds for the purchase of two hybrid electric vehicles and four electric shuttle vehicles to replace existing aging vehicles.	\$ 2,000,000	\$ 1,600,000	\$ 400,000	CARTA	1	91.2%	21	
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Total Funding for Complete Streets Grouping:	\$ 1,177,000
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3/25/2011	ADA Retrofitting	The City will initiate ADA retrofitting at 42 intersections along Ringgold Road from South Seminole Drive to I-75. The retrofitting includes adding curb ramps to applicable intersections, pedestrian pedestal poles with pushbuttons, striping for crosswalks and necessary signage. Some stripe removal to accommodate for the added crosswalks will also be conducted.	\$ 684,000	\$ 547,200	\$ 136,800	City of East Ridge	1	22.8%	8	
4/1/2011	Dayton Boulevard Sidewalks	Sidewalk extension from Greenleaf Street to Newberry Street	\$ 255,000	\$ 204,000	\$ 51,000	City of Red Bank	2	22.8%	11	
4/1/2011	Ashland Terrace Sidewalk Project	Sidewalk on Ashland Terrace from Knollwood Drive to Bank Street.	\$ 238,000	\$ 190,400	\$ 47,600	City of Red Bank	4	19.7%	11	

Total Funding for 3R Grouping:	\$ 1,313,150
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4/1/2011	Stabilization/ Resurfacing Newberry Street@DaytonBlvd.	Stabilizing/Resurfacing Intersection	\$ 89,750	\$ 71,800	\$ 17,950	City of Red Bank	1	60.6%	6	
4/1/2011	Resurfacing /Dayton Boulevard	Resurfacing Dayton Boulevard from Memorial Boulevard to Greenleaf Street. [app. 1.20 miles]	\$ 546,500	\$ 437,200	\$ 109,300	City of Red Bank	3	60.6%	6	
3/30/2011	Montlake Road Resurfacing	Milling of existing roadway, resurfacing and striping to include signage. Engineering and project management to be provided by TDOT.	\$ 232,000	\$ 185,600	\$ 46,400	City of Soddy-Daisy	3	59.2%	6	
3/30/2011	Dallas Hollow Resurfacing	Milling and resurfacing of roadway to include striping, signage and guardrail.	\$ 251,700	\$ 201,360	\$ 50,340	City of Soddy-Daisy	4	59.2%	6	
3/30/2011	Mountain Road Resurfacing	Milling and resurfacing roadway to include striping, signage and guardrail.	\$ 193,200	\$ 154,560	\$ 38,640	City of Soddy-Daisy	5	59.2%	6	

Total Funding for Intersection Improvement Grouping:	\$ 538,000
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3/30/2011	Dayton Pike / Sequoyah Road traffic signal / Intersection Improvement	Replace and install new four (4) mast arm poles, six (6) 3 section fixtures, four (4) 5 section fixtures, video actuated control system, conduit, wire, some new thermoplastic striping. All engineering, design and construction costs are included in this estimate. No further right of way acquisition is required.	\$ 156,000	\$ 124,800	\$ 31,200	City of Soddy-Daisy	1	59.2%	8	
3/30/2011	Sequoyah Road / Highway 27 traffic signal / Intersection Improvement	Replace and install new four (4) mast arm poles, four (4) 3 section fixtures, four (4) 5 section fixtures, video actuated control system, conduit, wire, some new thermoplastic striping. All engineering, design and construction costs are included in this estimate. No further right of way acquisition is required.	\$ 146,000	\$ 116,800	\$ 29,200	City of Soddy-Daisy	2	59.2%	8	
3/15/2011	Hixson Pike at Thrasher Pike Signalization	Installation of traffic signal on Hixson Pike (SR 319) at Thrasher Pike. Traffic is currently controlled with a stop sign for Thrasher Pike.	\$ 150,000	\$ 120,000	\$ 30,000	Hamilton County	2	39.4%	6	
4/1/2011	LE D Signal Heads Upgrades	Lights upgraded : Dayton Blvd@Signal Mountain, Dayton Blvd@Morrison Springs, Dayton Blvd@Ashland Terrace, Morrison Springs@Red Bank School, Morrison Springs@HWY 27	\$ 86,000	\$ 68,800	\$ 17,200	City of Red Bank	5	59.2%	6	

TIP SELECTION PROCESS PROJECTS RANKED BY SPONSOR PRIORITIES

Date Received	Project Name	Project Description	Estimated Cost	Project Sponsor	Sponsor Prioritization	TIP Selection Criteria Score	LRTP Goals Score
4/1/2011	Downtown Riverwalk Phase I and II (existing project)	Provide expanded pedestrian and bicycle facilities, acquisition of scenic or historic easements and sites, and landscaping and scenic beautification from to the existing Downtown Riverwalk Phase I and II project - Ross' Landing to St. Elmo.	\$ 3,500,000	Hamilton County	1	82.5%	19
3/25/2011	ADA Retrofitting	The City will initiate ADA retrofitting at 42 intersections along Ringgold Road from South Seminole Drive to I-75. The retrofitting includes adding curb ramps to applicable intersections, pedestrian pedestal poles with pushbuttons, striping for crosswalks and necessary signage. Some stripe removal to accommodate for the added crosswalks will also be conducted.	\$ 684,000	City of East Ridge	1	22.8%	14
3/28/2011	Purchase of Hybrid Electric and Electric Shuttle Vehicles for Replacement	CARTA is requesting funds for the purchase of two hybrid electric vehicles and four electric shuttle vehicles to replace existing aging vehicles.	\$ 2,000,000	CARTA	1	91.2%	21
3/30/2011	College Drive East to Apison Pike	Cost overrun from previous TIP, TN01-MC019. Realign College Drive East to improve grades and sight distances at railroad crossings, add left hand turn lanes on College Drive East and Appison Pike.	\$ 250,000	City of Collegedale	1		
3/30/2011	Dayton Pike / Sequoyah Road traffic signal / Intersection Improvement	Replace and install new four (4) mast arm poles, six (6) 3 section fixtures, four (4) 5 section fixtures, video actuated control system, conduit, wire, some new thermoplastic striping. All engineering, design and construction costs are included in this estimate. No further right of way acquisition is required.	\$ 156,000	City of Soddy-Daisy	1	59.2%	8
4/1/2011	Stabilization/ Resurfacing Newberry Street@DaytonBlvd.	Stabilizing/Resurfacing Intersection	\$ 89,750	City of Red Bank	1	60.6%	6
4/6/2011	Ashland Terrace Cost Overrun	Pay for cost overruns.	\$ 2,176,000	City of Chattanooga	1		
Subtotal for Prioritization Rank # 1:			\$ 8,855,750				
3/15/2011	Hixson Pike at Thrasher Pike Signalization	Installation of traffic signal on Hixson Pike (SR 319) at Thrasher Pike. Traffic is currently controlled with a stop sign for Thrasher Pike.	\$ 150,000	Hamilton County	2	39.4%	6
3/30/2011	Pedestrian Facilities	Cost overrun from previous TIP. ARRA funded pedestrian improvements.	\$ 10,000	City of Collegedale	2		
3/30/2011	Sequoyah Road / Highway 27 traffic signal / Intersection Improvement	Replace and install new four (4) mast arm poles, four (4) 3 section fixtures, four (4) 5 section fixtures, video actuated control system, conduit, wire, some new thermoplastic striping. All engineering, design and construction costs are included in this estimate. No further right of way acquisition is required.	\$ 146,000	City of Soddy-Daisy	2	59.2%	8
4/1/2011	Dayton Boulevard Sidewalks	Sidewalk extension from Greenleaf Street to Newberry Street	\$ 255,000	City of Red Bank	2	22.8%	14
4/6/2011	Central Avenue Extension (3rd St to Riverside Dr.)	2-lane extension from 3rd St to Riverside Drive.	\$ 341,636	City of Chattanooga	2		5
Subtotal for Prioritization Rank #s 1 to 2:			\$ 9,758,386				
3/30/2011	Montlake Road Resurfacing	Milling of existing roadway, resurfacing and striping to include signage. Engineering and project management to be provided by TDOT.	\$ 232,000	City of Soddy-Daisy	3	59.2%	6
4/1/2011	Resurfacing /Dayton Boulevard	Resurfacing Dayton Boulevard from Memorial Boulevard to Greenleaf Street. [app. 1.20 miles]	\$ 546,500	City of Red Bank	3	60.6%	6
Subtotal for Prioritization Rank #s 1 to 3:			\$ 10,536,886				
3/30/2011	Dallas Hollow Resurfacing	Milling and resurfacing of roadway to include striping, signage and guardrail.	\$ 251,700	City of Soddy-Daisy	4	59.2%	6
4/1/2011	Ashland Terrace Sidewalk Project	Sidewalk on Ashland Terrace from Knollwood Drive to Bank Street.	\$ 238,000	City of Red Bank	4	19.7%	14
Subtotal for Prioritization Rank #s 1 to 4:			\$ 11,026,586				
3/30/2011	Mountain Road Resurfacing	Milling and resurfacing roadway to include striping, signage and guardrail.	\$ 193,200	City of Soddy-Daisy	5	59.2%	6
4/1/2011	L E D Signal Heads Upgrades	Lights upgraded : Dayton Blvd@Signal Mountain, Dayton Blvd@Morrison Springs, Dayton Blvd@Ashland Terrace, Morrison Springs@Red Bank School, Morrison Springs@HWY 27	\$ 86,000	City of Red Bank	5	59.2%	6
Subtotal for Prioritization Rank #s 1 - 5:			\$ 11,305,786				
Grand Total:			\$ 11,305,786				

TIP SELECTION PROCESS PROJECTS RANKED BY TIP SELECTION CRITERIA SCORE

Total Amount to be Programmed:	\$ 10,788,394	Federal Funding:	\$ 8,630,716
	*This includes the 20% Match		

Cost Overruns

Date Received	Project Name	Project Description	Estimated Cost	Federal Funding	Local Funding	Project Sponsor	Sponsor Prioritization	TIP Selection Criteria Score	L RTP Goals Score
4/6/2011	Ashland Terrace Cost Overrun	Pay for cost overruns.	\$ 2,176,000	\$ 1,740,800	\$ 435,200	City of Chattanooga	1		
3/30/2011	College Drive East to Apison Pike	Cost overrun from previous TIP, TN01-MC019. Realign College Drive East to improve grades and sight distances at railroad crossings, add left hand turn lanes on College Drive East and Appison Pike.	\$ 250,000	\$ 200,000	\$ 50,000	City of Collegedale	1		
3/30/2011	Pedestrian Facilities	Cost overrun from previous TIP. ARRA funded pedestrian improvements.	\$ 10,000	\$ 8,000	\$ 2,000	City of Collegedale	2		
Grand Total of Cost Overrun Projects:			\$ 2,436,000						
Leftover Funds for Other Submitted Projects:			\$ 8,352,394						

Other Projects

3/28/2011	Purchase of Hybrid Electric and Electric Shuttle Vehicles for Replacement	CARTA is requesting funds for the purchase of two hybrid electric vehicles and four electric shuttle vehicles to replace existing aging vehicles.	\$ 2,000,000	\$ 1,600,000	\$ 400,000	CARTA	1	91.2%	21
4/1/2011	Downtown Riverwalk Phase I and II (existing project)	Provide expanded pedestrian and bicycle facilities, acquisition of scenic or historic easements and sites, and landscaping and scenic beautification from the existing Downtown Riverwalk Phase I and II project - Ross' Landing to St. Elmo.	\$ 3,500,000	\$ 2,800,000	\$ 700,000	Hamilton County	1	82.5%	19
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3/30/2011	Sequoyah Road / Highway 27 traffic signal / Intersection Improvement	Replace and install new four (4) mast arm poles, four (4) 3 section fixtures, four (4) 5 section fixtures, video actuated control system, conduit, wire, some new thermoplastic striping. All engineering, design and construction costs are included in this estimate. No further right of way acquisition is required.	\$ 146,000	\$ 116,800	\$ 29,200	City of Soddy-Daisy	2	59.2%	6
3/30/2011	Montlake Road Resurfacing	Milling of existing roadway, resurfacing and striping to include signage. Engineering and project management to be provided by TDOT.	\$ 232,000	\$ 185,600	\$ 46,400	City of Soddy-Daisy	3	59.2%	6
3/30/2011	Dallas Hollow Resurfacing	Milling and resurfacing of roadway to include striping, signage and guardrail.	\$ 251,700	\$ 201,360	\$ 50,340	City of Soddy-Daisy	4	59.2%	6
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TIP SELECTION PROCESS PROJECTS RANKED BY LRTP GOALS SCORE

Total Amount to be Programmed:	\$ 10,788,394	Federal Funding:	\$ 8,630,716
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Cost Overruns

Date Received	Project Name	Project Description	Estimated Cost	Federal Funding	Local Funding	Project Sponsor	Sponsor Prioritization	TIP Selection Criteria Score	LRTP Goals Score
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3/30/2011	Pedestrian Facilities	Cost overrun from previous TIP. ARRA funded pedestrian improvements.	\$ 10,000	\$ 8,000	\$ 2,000	City of Collegedale	2		
Grand Total of Cost Overrun Projects:			\$ 2,436,000						
Leftover Funds for Other Submitted Projects:			\$ 8,352,394						

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3/30/2011	Dallas Hollow Resurfacing	Milling of existing roadway, resurfacing and striping to include signage. Engineering and project management to be provided by TDOT.	\$ 232,000	\$ 185,600	\$ 46,400	City of Soddy-Daisy	3	59.2%	6
3/30/2011	Mountain Road Resurfacing	Milling and resurfacing of roadway to include striping, signage and guardrail.	\$ 251,700	\$ 201,360	\$ 50,340	City of Soddy-Daisy	4	59.2%	6
4/1/2011	Montlake Road Resurfacing	Milling and resurfacing roadway to include striping, signage and guardrail.	\$ 193,200	\$ 154,560	\$ 38,640	City of Soddy-Daisy	5	59.2%	6
3/15/2011	L E D Signal Heads Upgrades	Lights upgraded : Dayton Blvd@Signal Mountain, Dayton Blvd@Morrison Springs, Dayton Blvd@Ashland Terrace, Morrison Springs@Red Bank School, Morrison Springs@HWY 27	\$ 86,000	\$ 68,800	\$ 17,200	City of Red Bank	5	59.2%	6
4/6/2011	Hixson Pike at Thrasher Pike Signalization	Installation of traffic signal on Hixson Pike (SR 319) at Thrasher Pike. Traffic is currently controlled with a stop sign for Thrasher Pike.	\$ 150,000	\$ 120,000	\$ 30,000	Hamilton County	2	39.4%	6
4/1/2011	Central Avenue Extension (3rd St to Riverside Dr.)	2-lane extension from 3rd St to Riverside Drive.	\$ 341,636	\$ 273,309	\$ 68,327	City of Chattanooga	2	57.0%	5

* The LRTP Goals score solely pedestrian projects much higher. This is due to the LRTP Goals incorporating sustainable travel options that improve the quality of life. Also, the LRTP Goals place a much greater of emphasis on Intelligent Transportation Systems than the current TIP criteria scoring system.

Table ES.1 Performance-Based Planning Framework

Rank	Goals	SAFETEA-LU Planning Factors	Objectives	Performance Measures <i>Systems-Level Measures for Scenario Analysis and LRTP Evaluation</i>
1	Develop and maintain a transportation system which provides for the safe and secure movement of people and goods.	1,2,3,4,5,6,7,8	<ul style="list-style-type: none"> Reduce traffic injuries and fatalities for motorized and non-motorized system users 	Note: Due to limitations of safety data, TPO staff to assess as qualitative summary with formal recommendation to develop regionwide crash database for motorized and non-motorized users. When this is available the metric will be Crash Reduction.
2	Provide an integrated, multimodal transportation system that provides for the efficient movement of people and goods.	1,2,4,5,6,7,8	<ul style="list-style-type: none"> Reduce congestion, with emphasis on strategies that support reduction in VMT and improved system operations Encourage alternative modes of transport Support transportation investment at key intermodal and multimodal facilities Support Complete Streets project design 	<ul style="list-style-type: none"> Vehicle Miles Traveled (per capita) Vehicle Hours Traveled Congested Speed by Roadway Facility Type Funding mix among transportation modes Project sponsor commitment to Complete Streets design
3	Coordinate transportation and land use planning to support more integrated and efficient movement of people and goods.	1,3,4,5,6,8	<ul style="list-style-type: none"> Coordinate transportation investment with planned growth at regional and local level Encourage programming of projects that are identified from, or are consistent with, studies and plans that address joint transportation/land use planning 	<ul style="list-style-type: none"> Consistency with local and regional land use plans and/or special scenario planning assessments
4	Provide sustainable travel options that improve quality of life and the environment .	1,2,4,5,6,8	<ul style="list-style-type: none"> Encourage alternative modes of transport that reduce SOV VMT and air pollutant emissions Minimize adverse community, historical, and environmental impacts 	<ul style="list-style-type: none"> Environmental impact assessment-project proximity to wetlands, historic areas, etc.. NOx, VOC, and PM_{2.5} emissions
5	Develop system operations strategies that improve travel mobility and maximize the life of the transportation system.	1,2,3,4,5,6,7,8	<ul style="list-style-type: none"> Encourage the use of Intelligent Transportation Systems in improving system performance, safety, and security 	<ul style="list-style-type: none"> Fund level for ITS improvements Note: Continue to consider pavement and bridge condition to provide for adequate infrastructure maintenance.
6	Develop a financially feasible and cost-effective multimodal transportation system with viable access and connectivity that supports the development of all sectors of the study area's economy .	1,4,6,7,8	<ul style="list-style-type: none"> Improve access to and within key activity and employment centers Encourage investment on key freight and rail facilities 	<ul style="list-style-type: none"> Travel time to/within key activity and employment center areas (CS) Travel time on key freight facilities (CS)