AGENDA ITEM #6: HRTPO PROJECT PRIORITIZATION: RECOMMENDED ENHANCEMENTS

The HRTPO Project Prioritization Tool was developed to assist regional decision-makers in prioritizing transportation projects based off technical merits and regional benefits, evaluating projects based on Project Utility, Economic Vitality, and Project Viability. The Tool, which has been used in the past two Long-Range Transportation Plan updates and in the identification of the Regional Priority Projects, was designed to be updated periodically to reflect current conditions, regional priorities, and new data sources.

On April 5, 2017, the LRTP Subcommittee unanimously voted for HRTPO staff to initiate the process of updating the Project Prioritization Tool based on recommendations received. Since that time, HRTPO staff has been conducting research and soliciting additional feedback from regional stakeholders to refine potential measures to incorporate or enhance in the Tool, and adjust weighting factors based on these recommended improvements. Feedback received through multiple stakeholder meetings has been incorporated into the Tool and a small group of test projects has been scored.

On January 24, 2020, the Project Prioritization Task Force met to review and discuss remaining comments and the results of the scoring of test projects incorporating the proposed enhancements and updated weighting factors (attachment 6A includes summary slides from this meeting). After much discussion, the Project Prioritization Task Force recommends the LRTP Subcommittee approve the recommended enhancements to the HRTPO Project Prioritization Tool, including adjusted weighting factors.

Recommended modifications will be put out for public review and comment before seeking Board approval. As next steps, HRTPO staff will evaluate/score the 2045 LRTP Candidate Projects using the enhanced Project Prioritization Tool.

Ms. Dale Stith, Principal Transportation Planner, will brief the LRTP Subcommittee on this agenda item.

Attachment 6A: Prioritization Task Force Summary Slides

Attachment 6B: Updated Draft Prioritization Weighting Factors

RECOMMENDED ACTION

Recommend TTAC approval of the enhancements to the HRTPO Project Prioritization Tool, including adjusted weighting factors.

CURRENT

Highway Projects Weighting Factors Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Congestion Level:	**30.00**
% Reduction in Existing and Future V/C Ratios (Daily Delay)	*10.00*
Existing Peak Period Congestion/Level of Service	*10.00*
Impact to Nearby Roadways	*10.00*
System Continuity and Connectivity	**25.00**
Degree of Regional Impact	
Safety and Security:	**15.00**
Crash Ratio	*8.00*
Improvement to Incident Management or Evacuation Routes	*7.00*
Cost Effectiveness (Cost/VMT)	**15.00**
Total Cost ($)/VMT	
Land Use/Future Development Compatibility	**10.00**
Project Compatible with Existing Land Use Patterns and Future Plans/Development	
Modal Enhancements:	**5.00**
Enhances Other Categories	*3.00*
Improve Access to Freight Distribution Facilities, Ports, Major Industrial Clients, or Major Employment and Population Centers	*2.00*
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Total Reduction in Travel Time	**30.00**
Labor Market Access	**20.00**
Increase Travel Time Reliability	*10.00*
Increased Access for High Density Employment Areas	*10.00*
Addresses the Needs of Basic Sector Industries	**30.00**
Increases Access for Port Facilities	*10.00*
Increases Access to Tourist Destinations	*10.00*
Increases Access for Defense Installations	*6.00*
Facility part of STRAHNET	*4.00*
Facility part of "Roadways Serving the Military"	*3.00*
Increased Opportunity	**20.00**
Provides New or Increased Access	*10.00*
Supports Plans for Future Growth	*10.00*
ECONOMIC VITALITY TOTAL	***100.00***
PROJECT VIABILITY	
Percent of Additional Funding (sliding scale 0-50)	**50.00**
Prior Commitment (project included in the currently adopted LRTP?)	**10.00**
Percentage of Project Design Complete (sliding scale 1-10)	**10.00**
Environmental Documents Complete	**15.00**
Environmental Decisions Obtained	**5.00**
ROW Obtained/Utilities Coordinated	**5.00**
Additional Environmental Permits Obtained	**5.00**
PROJECT VIABILITY TOTAL	***100.00***

RECOMMENDED MODIFICATIONS

Highway Projects Weighting Factors Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Congestion Level:	**40.00**
% Reduction in Existing and Future V/C Ratios (Daily Delay)	*10.00*
Existing Peak Period Congestion/Level of Service	*10.00*
Person Throughput	*5.00*
Person Hours of Delay	*5.00*
Impact to Nearby Roadways	*10.00*
System Continuity and Connectivity:	**25.00**
Degree of Regional Impact	*15.00*
Improves Access to Major Employment and Population Centers	*3.00*
Resiliency	*5.00*
Addresses a gap	*2.00*
Safety and Security:	**15.00**
Reduction of EPDO of Fatal and Serious Injury crashes	*5.00*
Reduction of EPDO Rate of Fatal and Serious Injury crashes	*5.00*
Improvement to Incident Management or Evacuation Routes	*5.00*
~~**Cost Effectiveness**~~ **(moved to Project Viablity)**	**N/A**
~~**Land Use/Future Development Compatibility**~~ **(moved to Project Viability)**	**N/A**
Modal Enhancements:	**5.00**
Enhances Other Categories	*3.00*
Access to Multimodal Choices	*2.00*
~~*Improves Vehicular Access*~~ (moved to System Continuity and Connectivity)	
Travel Time Reliability:	**15.00**
Level of Travel Time Reliablity (LOTTR)	*10.00*
Truck Travel Time Reliablity (TTTR)	*5.00*
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Travel Time and Delay Impacts	**30.00**
Total Reduction in Regional Travel Time	*15.00*
Improved Delay (Cost of congestion)	*15.00*
Labor Market Access*	**10.00**
~~*Increase Travel Time Reliability*~~ ~~*(move to Project Utility)*~~	
Increased Access for High Density Employment Areas	
Addresses the Needs of Basic Sector Industries*	**30.00**
Increases Access for Port Facilities	*5.00*
Improved Access to Truck Zones	*5.00*
Increases Access to Tourist Destinations	*10.00*
Increases Access for Defense Installations	*6.00*
Facility part of STRAHNET or "Roadways Serving the Military"	*4.00/3.00*
Increased Opportunity*	**20.00**
Provides New or Increased Access	*5.00*
Supports Plans for Future Growth	*5.00*
Access to Institutions of Higher Education (includes work force development sites)	*5.00*
Urban Development Areas/ Governor's Opportunity Zones	*5.00*
Economic Distress Factors*	**10.00**
Provides access to low income areas	*5.00*
Provides access to areas with high unemployment	*5.00*
ECONOMIC VITALITY TOTAL	***100.00***

*In terms of Economic Vitality, these measures are dependent on improved congestion and/or travel time

with cost effectiveness incorporated into Project Viability

PROJECT VIABILITY	
Project Readiness	**50.00**
Percent of Additional Fundin g (sliding scale 0-15)	15.00
Prior Commitment (project included in the currently adopted LRTP)	10.00
Project Design *Project alignment status (5 pts)* *5)*	10.00
Environmental Documents Complete	5.00
Environmental Decisions Obtained	5.00
ROW Obtained/Utilities Coordinated	5.00
~~*Additional Environmental Permits Obtained*~~	~~5.00~~
Land Use/Future Development Compatibility	**20.00**
Environmental:	**10.00**
Environmental MOEs/Basic Environmental Review	*3.00*
Acres of Natural and Cultural Resources	*3.00*
Project reduces traffic delay at a congested intersection, interchange, or other bottleneck ~~*with high percentage of truck traffic*~~	*2.00*
Project bottlenect has high percentage of truck traffic	*2.00*
Cost Effectiveness (Estimated Cost/(Project Utility + Economic Vitality scores)	**20.00**
PROJECT VIABILITY TOTAL	***100.00***

Attachment 6B

CURRENT

Interchange Projects Weighting Factors Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Congestion Level:	**30.00**
Existing Queue Conditions: Number of Approaches with Queues	*10.00*
Queue Improvements: Number of Approaches Improved	*10.00*
Number of Movements Added or Improved	*10.00*
System Continuity and Connectivity	**25.00**
Degree of Regional Impact	
Safety and Security:	**15.00**
Crash Ratio	*8.00*
Improvement to Incident Management or Evacuation Routes	*7.00*
Cost Effectiveness (Cost/VMT)	**15.00**
Total Cost ($)/VMT	
Land Use/Future Development Compatibility	**10.00**
Project Compatible with Existing Land Use Patterns and Future Plans/Development	
Modal Enhancements:	**5.00**
Enhances Other Categories	*3.00*
Improve Access to Freight Distribution Facilities, Ports, Major Industrial Clients, or Major Employment and Population Centers	*2.00*
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Total Reduction in Travel Time	**30.00**
Labor Market Access	**20.00**
Increase Travel Time Reliability	*10.00*
Increased Access for High Density Employment Areas	*10.00*
Addresses the Needs of Basic Sector Industries	**30.00**
Increases Access for Port Facilities	*10.00*
Increases Access to Tourist Destinations	*10.00*
Increases Access for Defense Installations	*6.00*
Facility part of STRAHNET	*4.00*
Facility part of "Roadways Serving the Military"	*3.00*
Increased Opportunity	**20.00**
Provides New or Increased Access	*10.00*
Supports Plans for Future Growth	*10.00*
ECONOMIC VITALITY TOTAL	***100.00***
PROJECT VIABILITY	
Percent of Additional Funding (sliding scale 0-50)	**50.00**
Prior Commitment (project included in the currently adopted LRTP?)	**10.00**
Percentage of Project Design Complete (sliding scale 1-10)	**10.00**
Environmental Documents Complete	**15.00**
Environmental Decisions Obtained	**5.00**
ROW Obtained/Utilities Coordinated	**5.00**
Additional Environmental Permits Obtained	**5.00**
PROJECT VIABILITY TOTAL	***100.00***

RECOMMENDED MODIFICATIONS

Interchange Projects Weighting Factors Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Congestion Level:	**40.00**
Existing Queue Conditions	*10.00*
Queue Improvements	*10.00*
Person Throughput	*5.00*
Person Hours of Delay	*5.00*
Number of Movements Added or Improved	*10.00*
System Continuity and Connectivity	**25.00**
Degree of Regional Impact	*15.00*
Improves Access to Major Employment and Population Centers	*3.00*
Resiliency	*5.00*
Addresses a gap	*2.00*
Safety and Security:	**15.00**
Reduction of EPDO of Fatal and Serious Injury crashes	*5.00*
Reduction of EPDO Rate of Fatal and Serious Injury crashes	*5.00*
Improvement to Incident Management or Evacuation Routes	*5.00*
~~**Cost Effectiveness**~~ **(moved to Project Viablity)**	**N/A**
~~**Land Use/Future Development Compatibility**~~ **(moved to Project Viability)**	**N/A**
Modal Enhancements:	**5.00**
Enhances Other Categories	*3.00*
Access to Multimodal Choices	*2.00*
~~*Improves Vehicular Access*~~ *(moved to System Continuity and Connectivity)*	
Travel Time Reliability:	**15.00**
Level of Travel Time Reliablity (LOTTR)	*10.00*
Truck Travel Time Reliablity (TTTR)	*5.00*
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Travel Time and Delay Impacts	**30.00**
Total Reduction in Regional Travel Time	*15.00*
Improved Delay (Cost of congestion)	*15.00*
Labor Market Access*	**10.00**
~~*Increase Travel Time Reliability*~~ *(move to Project Utility)*	
Increased Access for High Density Employment Areas	*10.00*
Addresses the Needs of Basic Sector Industries*	**30.00**
Increases Access for Port Facilities	*5.00*
Improved Access to Truck Zones	*5.00*
Increases Access to Tourist Destinations	*10.00*
Increases Access for Defense Installations	*6.00*
Facility part of STRAHNET or "Roadways Serving the Military"	*4.00/3.00*
Increased Opportunity*	**20.00**
Provides New or Increased Access	*5.00*
Supports Plans for Future Growth	*5.00*
Access to Institutions of Higher Education (includes work force development sites)	*5.00*
Urban Development Areas/ Governor's Opportunity Zones	*5.00*
Economic Distress Factors*	**10.00**
Provides access to low income areas	*5.00*
Provides access to areaswith high unemployment	*5.00*
ECONOMIC VITALITY TOTAL	***100.00***

*In terms of Economic Vitality, these measures are dependent on improved congestion and/or travel time

with cost effectiveness incorporated into Project Viability

PROJECT VIABILITY	
Project Readiness	**50.00**
Percent of Additional Fundin g (sliding scale 0-15)	15.00
Prior Commitment (project included in the currently adopted LRTP)	10.00
Project Design *Project alignment status (5 pts)* *5)*	10.00
Environmental Documents Complete	5.00
Environmental Decisions Obtained	5.00
ROW Obtained/Utilities Coordinated	5.00
~~*Additional Environmental Permits Obtained*~~	~~5.00~~
Land Use/Future Development Compatibility	**20.00**
Environmental:	**10.00**
Environmental MOEs/Basic Environmental Review	*3.00*
Acres of Natural and Cultural Resources	*3.00*
Project reduces traffic delay at a congested intersection, interchange, or other bottleneck ~~*with high percentage of truck traffic*~~	*2.00*
Project bottlenect has high percentage of truck traffic	*2.00*
Cost Effectiveness (Estimated Cost/(Project Utility + Economic Vitality scores)	**20.00**
PROJECT VIABILITY TOTAL	***100.00***

CURRENT

Bridge & Tunnel Projects Weighting Factors Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Congestion Level:	**30.00**
% Reduction in Existing and Future V/C Ratios (Daily Delay)	*10.00*
Existing Peak Period Congestion/Level of Service	*10.00*
Impact to Nearby Roadways	*10.00*
Infrastructure Condition (Bridge Sufficiency, Tunnel Condition, Obsolescence)	**20.00**
Bridges:	
Bridge Sufficiency Rating	*20.00*
Tunnels:	
Age of Tunnel	*6.50*
Last Major Repair of Tunnel	*6.75*
Costs for Necessary Repairs/Upgrades	*6.75*
System Continuity and Connectivity	**10.00**
Degree of Regional Impact	
Safety and Security:	**10.00**
Crash Ratio	*4.50*
Improvement to Incident Management or Evacuation Routes	*3.00*
Failure Impact (Impact of Detour to Alternate Crossing)	*2.50*
Cost Effectiveness (Cost/VMT)	**15.00**
Total Cost ($)/VMT	
Land Use/Future Development Compatibility	**10.00**
Project Compatible with Existing Land Use Patterns and Future Plans/Development	
Modal Enhancements:	**5.00**
Enhances Other Categories	*2.00*
Provides Continuous Maritime Crossing	*1.50*
Improve Access to Freight Distribution Facilities, Ports, Major Industrial Clients, or Major Employment and Population Centers	*1.50*
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Total Reduction in Travel Time	**30.00**
Labor Market Access	**20.00**
Increase Travel Time Reliability	*10.00*
Increased Access for High Density Employment Areas	*10.00*
Addresses the Needs of Basic Sector Industries	**30.00**
Increases Access for Port Facilities	*10.00*
Increases Access to Tourist Destinations	*10.00*
Increases Access for Defense Installations	*6.00*
Facility part of STRAHNET	*4.00*
Facility part of "Roadways Serving the Military"	*3.00*
Increased Opportunity	**20.00**
Provides New or Increased Access	*10.00*
Supports Plans for Future Growth	*10.00*
ECONOMIC VITALITY TOTAL	***100.00***
PROJECT VIABILITY	
Percent of Additional Funding (sliding scale 0-50)	**50.00**
Prior Commitment (project included in the currently adopted LRTP?)	**10.00**
Percentage of Project Design Complete (sliding scale 1-10)	**10.00**
Environmental Documents Complete	**15.00**
Environmental Decisions Obtained	**5.00**
ROW Obtained/Utilities Coordinated	**5.00**
Additional Environmental Permits Obtained	**5.00**
PROJECT VIABILITY TOTAL	***100.00***

RECOMMENDED MODIFICATIONS

Bridge & Tunnel Projects Weighting Factors Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Congestion Level:	**40.00**
% Reduction in Existing and Future V/C Ratios (Daily Delay)	*10.00*
Existing Peak Period Congestion/Level of Service	*10.00*
Person Throughput	*5.00*
Person Hours of Delay	*5.00*
Impact to Nearby Roadways	*10.00*
Infrastructure Condition	**15.00**
Bridges:	
Importance Factor	*5.50*
Condition Factor	*4.50*
Design Redundancy Factor	*3.00*
Structure Capacity	*2.00*
Tunnels:	
Age of Tunnel	*5.00*
Last Major Repair of Tunnel	*5.00*
Costs for Necessary Repairs/Upgrades	*5.00*
System Continuity and Connectivity	**15.00**
Degree of Regional Impact	*5.00*
Improves Access to Major Employment and Population Centers	*3.00*
Resiliency	*5.00*
Addresses a gap	*2.00*
Safety and Security:	**10.00**
Reduction of EPDO of Fatal and Serious Injury crashes	*2.50*
Reduction of EPDO Rate of Fatal and Serious Injury crashes	*2.50*
Improvement to Incident Management or Evacuation Routes	*3.00*
Failure Impact (Impact of Detour to Alternate Crossing)	*2.00*
~~**Cost Effectiveness**~~ **(moved to Project Viablity)**	**N/A**
~~**Land Use/Future Development Compatibility**~~ **(moved to Project Viability)**	**N/A**
Modal Enhancements:	**5.00**
Enhances Other Categories	*2.00*
Provides Continuous Maritime Crossing	*1.00*
Access to Multimodal Choices	*2.00*
~~*Improves Vehicular Access*~~ *(moved to System Continuity and Connectivity)*	
Travel Time Reliability:	**15.00**
Level of Travel Time Reliablity (LOTTR)	*10.00*
Truck Travel Time Reliablity (TTTR)	*5.00*
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Travel Time and Delay Impacts	**30.00**
Total Reduction in Regional Travel Time	*15.00*
Improved Delay (Cost of congestion)	*15.00*
Labor Market Access*	**10.00**
~~*Increase Travel Time Reliability*~~ *(move to Project Utility)*	
Increased Access for High Density Employment Areas	
Addresses the Needs of Basic Sector Industries*	**30.00**
Increases Access for Port Facilities	*5.00*
Improved Access to Truck Zones	*5.00*
Increases Access to Tourist Destinations	*10.00*
Increases Access for Defense Installations	*6.00*
Facility part of STRAHNET or "Roadways Serving the Military"	*4.00/3.00*
Increased Opportunity*	**20.00**
Provides New or Increased Access	*5.00*
Supports Plans for Future Growth	*5.00*
Access to Institutions of Higher Education (includes work force development sites)	*5.00*
Urban Development Areas/ Governor's Opportunity Zones	*5.00*
Economic Distress Factors*	**10.00**
Provides access to low income areas	*5.00*
Provides access to areaswith high unemployment	*5.00*
ECONOMIC VITALITY TOTAL	***100.00***

*In terms of Economic Vitality, these measures are dependent on improved congestion and/or travel time

with cost effectiveness incorporated into Project Viability

PROJECT VIABILITY	
Project Readiness	**50.00**
Percent of Additional Fundin g (sliding scale 0-15)	15.00
Prior Commitment (project included in the currently adopted LRTP)	10.00
Project Design *Project alignment status (5 pts)* *5)*	10.00
Environmental Documents Complete	5.00
Environmental Decisions Obtained	5.00
ROW Obtained/Utilities Coordinated	5.00
~~*Additional Environmental Permits Obtained*~~	~~5.00~~
Land Use/Future Development Compatibility	**20.00**
Environmental:	**10.00**
Environmental MOEs/Basic Environmental Review	*3.00*
Acres of Natural and Cultural Resources	*3.00*
Project reduces traffic delay at a congested intersection, interchange, or other bottleneck ~~*with high percentage of truck traffic*~~	*2.00*
Project bottleneck has high percentage of truck traffic	*2.00*
Cost Effectiveness (Estimated Cost/(Project Utility + Economic Vitality scores)	**20.00**
PROJECT VIABILITY TOTAL	***100.00***

Attachment 6B

CURRENT

Intermodal Weighting Factors Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Better Accommodates Intermodal Movements	**30.00**
Degree of Conflict for Intermodal Movements	
Improves Rail/Vehicular Access	**30.00**
Improves Access to Freight Distribution Facilities, Ports, Major Industrial Clients, or Major Employment and Population Centers	
Cost Effectiveness (Cost/VMT)	**25.00**
Total Cost ($)/VMT	
Enhances Other Categories	**15.00**
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Total Reduction in Travel Time	**20.00**
Total Reduction in Regional Travel Time	
Labor Market Access	**35.00**
Increase Travel Time Reliability	*15.00*
Impact on Truck Movement	*15.00*
Increased Access for High Density Employment Areas	*5.00*
Addresses the Needs of Basic Sector Industries	**15.00**
Increases Access for Port Facilities	*5.00*
Improves Flow of Rail	*5.00*
Increases Access to Air	*5.00*
Increased Opportunity	**30.00**
Provides New or Increased Access	*20.00*
Supports Plans for Future Growth	*10.00*
ECONOMIC VITALITY TOTAL	***100.00***
PROJECT VIABILITY	
Percent of Additional Funding (sliding scale 0-50)	**50.00**
Prior Commitment (project included in the currently adopted LRTP?)	**10.00**
Percentage of Project Design Complete (sliding scale 1-10)	**10.00**
Environmental Documents Complete	**15.00**
Environmental Decisions Obtained	**5.00**
ROW Obtained/Utilities Coordinated	**5.00**
Additional Environmental Permits Obtained	**5.00**
PROJECT VIABILITY TOTAL	***100.00***

RECOMMENDED MODIFICATIONS

Intermodal Weighting Factors Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Better Accommodates Intermodal Movements	**30.00**
Degree of Conflict for Intermodal Movements	
Improves Rail or Vehicular Access	**30.00**
Improves Access to Airports, Seaports, Major Employment and Population Centers, or Rail Stations/Terminals	
System Continuity and Connectivity:	**15.00**
Degree of Regional Impact	*10.00*
Resiliency	*3.00*
Address a Gap	*2.00*
~~**Cost Effectiveness**~~ **(moved to Project Viablity)**	**N/A**
Modal Enhancements	**10.00**
Enhances Other Categories	*6.00*
Access to Multimodal Choices	*4.00*
Travel Time Reliability:	**15.00**
Level of Travel Time Reliablity (LOTTR)	*5.00*
Truck Travel Time Reliablity (TTTR)	*10.00*
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Travel Time and Delay Impacts	**30.00**
Total Reduction in Regional Travel Time	*15.00*
Improved Delay (Cost of congestion)	*15.00*
Labor Market Access*	**20.00**
~~*Increase Travel Time Reliability*~~ *(move to Project Utility)*	
Impact on Truck Movement	*15.00*
Increased Access for High Density Employment Areas	*5.00*
Improves Interaction Between Modes of Travel (Basic Sector) (20 Points)*	**20.00**
Increases Access for Port Facilities	*5.00*
Improves Flow of Rail	*5.00*
Increases Access to Air/Sea Ports	*5.00*
Improves Access to Truck Zones	*5.00*
Increased Opportunity*	**30.00**
Provides New or Increased Access	*15.00*
Supports Plans for Future Growth	*10.00*
Urban Development Areas/ Governor's Opportunity Zones	*5.00*
ECONOMIC VITALITY TOTAL	***100.00***

*In terms of Economic Vitality, these measures are dependent on improved congestion and/or travel time

with cost effectiveness incorporated into Project Viability

PROJECT VIABILITY	
Project Readiness	**50.00**
Percent of Additional Fundin g (sliding scale 0-15)	15.00
Prior Commitment (project included in the currently adopted LRTP)	10.00
Project Design	10.00
Project alignment status (5 pts)	
Percentage of Project Design Complete (sliding scale 1-5)	
Environmental Documents Complete	5.00
Environmental Decisions Obtained	5.00
ROW Obtained/Utilities Coordinated	5.00
~~*Additional Environmental Permits Obtained*~~	~~5.00~~
Land Use/Future Development Compatibility	**20.00**
Environmental:	**10.00**
Environmental MOEs/Basic Environmental Review	*3.00*
Acres of Natural and Cultural Resources	*4.00*
Project reduces traffic delay at a congested intersection, interchange, or other bottleneck with high percentage of truck traffic	*3.00*
Cost Effectiveness (Estimated Cost/(Project Utility + Economic Vitality scores)	**20.00**
PROJECT VIABILITY TOTAL	***100.00***

Attachment 6B

CURRENT

Transit Projects Weighting Factors Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Existing Usage and/or Prospective Ridership, Coverage Area/ Population Served	**20.00**
System Continuity and Connectivity:	**20.00**
Regional Significance	*9.00*
Improves access to employment and population centers	*11.00*
User Benefit (Annual Travel Time Savings per Rider)	**15.00**
Annual Travel Time Savings per Rider	*10.00*
Is the project new?	*5.00*
Land Use/Future Development Compatibility	**15.00**
Project Compatible with Existing Land Use Patterns and Future Plans/Development	
Cost Effectiveness	**15.00**
Annualized Capital Costs + Annualized Operating Costs)/Annual Riders	
Air Quality/Emissions Reduction (Tons of emissions (HC and NOx) reduced per year)	**10.00**
Enhances Other Categories	**5.00**
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Labor Market Access	**45.00**
Increases Access for Major Employment Centers	*20.00*
Increases Travel Time Reliability	*10.00*
Increases Frequency of Service	*10.00*
Provides Access to Institutions of Higher Education	*5.00*
Addresses the Needs of Basic Sector Industries	**20.00**
Provides or Improves Access for Defense Installations	*10.00*
Provides/Improves Access for Tourist Destinations	*10.00*
Increased Opportunity - Provides New Access to the Network	**20.00**
Provides New Access to the Network	*5.00*
Supported by Plans for Increased Density and Economic Activity	*15.00*
Economic Distress Factors	**15.00**
Provides Access to Areas with High Unemployment	*5.00*
Provides Access to Low Income Areas	*10.00*
ECONOMIC VITALITY TOTAL	***100.00***
PROJECT VIABILITY	
Percent of Additional Funding (sliding scale 0-50)	**50.00**
Prior Commitment (project included in currently adopted LRTP or documented by Transit Agency?)	**10.00**
Percentage of Project Design Complete (sliding scale 1-10)	**10.00**
Environmental Documents Complete	**15.00**
Environmental Decisions Obtained	**5.00**
ROW Obtained/Utilities Coordinated	**5.00**
Additional Environmental Permits Obtained	**5.00**
PROJECT VIABILITY TOTAL	***100.00***

RECOMMENDED MODIFICATIONS

Transit Projects Weighting Factors Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Congestion (Percent of trips removed from roadways)	**10.00**
Percent of trips removed from highways	
Existing Usage and/or Prospective Ridership, Coverage Area/ Population Served	**20.00**
System Continuity and Connectivity:	**25.00**
Regional Significance	*9.00*
Improves access to major employment and population centers	*9.00*
Resiliency	*5.00*
Addresses a gap	*2.00*
User Benefit	**35.00**
Annual Travel Time Savings per Rider	*10.00*
Is the project new?	*5.00*
Operating Efficiency	*5.00*
Travel Time Reliability	*5.00*
Accessibility (including ADA) and/or Customer Experience	*5.00*
Safety and Security	*5.00*
~~Land Use/Future Development Compatibility~~ (moved to Project Viability)	**N/A**
Project Compatible with Existing Land Use Patterns and Future Plans/Development	
~~Cost Effectiveness~~ (moved to Project Viablity)	**N/A**
Annualized Capital Costs + Annualized Operating Costs)/Annual Riders	
~~Air Quality/Emissions Reduction~~ (moved to Project Viability)	**N/A**
Modal Enhancements	**10.00**
Enhances Other Categories	*6.00*
Access to Multimodal Choices	*4.00*
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Labor Market Access*	**30.00**
Increases Access for Major Employment Centers	*20.00*
~~Increases Travel Time Reliability~~ (move to Project Utility)	
Increases Frequency of Service	*10.00*
~~Provides Access to Institutions of Higher Education~~ (moved to Increased Opportunity below)	
Addresses the Needs of Basic Sector Industries*	**20.00**
Provides or Improves Access for Defense Installations	*10.00*
Provides/Improves Access for Tourist Destinations	*10.00*
Increased Opportunity - Provides New Access to the Network*	**30.00**
Provides New Access to the Network	*5.00*
Supported by Plans for Increased Density and Economic Activity	*15.00*
Access to Institutions of Higher Education (includes work force development sites)	*5.00*
Urban Development Areas/ Governor's Opportunity Zones	*5.00*
Economic Distress Factors*	**20.00**
Provides Access to Areas with High Unemployment	*10.00*
Provides Access to Low Income Areas	*10.00*
ECONOMIC VITALITY TOTAL	***100.00***

*In terms of Economic Vitality, these measures are dependent on improved congestion and/or travel time

with cost effectiveness incorporated into Project Viability

PROJECT VIABILITY	
Project Readiness	**50.00**
Percent of Additional Funding (sliding scale 0-15)	15.00
Prior Commitment (project included in the currently adopted LRTP)	10.00
Project Design	10.00
Project alignment status (5 pts)	
5)	
Environmental Documents Complete	5.00
Environmental Decisions Obtained	5.00
ROW Obtained/Utilities Coordinated	5.00
~~Additional Environmental Permits Obtained~~	~~5.00~~
Land Use/Future Development Compatibility	**20.00**
Environmental:	**10.00**
Environmental MOEs/Basic Environmental Review	*3.00*
Acres of Natural and Cultural Resources	*4.00*
Air Quality/Emissions Reduction (Tons of emissions (HC and NOx) reduced per year)	*3.00*
Cost Effectiveness (Estimated Cost/(Project Utility + Economic Vitality scores)	**20.00**
PROJECT VIABILITY TOTAL	***100.00***

Attachment 6B

CURRENT

Active Transportation Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
System Continuity and Connectivity	**30.00**
Access to Transit, Local, or Regional Destinations	*11.00*
Connections to Existing Bicycle/Pedestrian Facilities	*8.00*
Elimination of Barriers to Major Destinations	*7.00*
Regional Significance	*4.00*
Safety	**30.00**
Crash History	*15.00*
Safety Improvement	*15.00*
Cost Effectiveness	**20.00**
Cost/Population Served in 1.5 Mile Radius	
Enhances Other Categories	**10.00**
Land Use/Future Development Compatibility	**10.00**
PROJECT UTILITY TOTAL	***100.00***
PROJECT VIABILITY	
Percent of Additional Funding (sliding scale 0-50)	**50.00**
Prior Commitment (project included in the currently adopted LRTP?)	**10.00**
Percentage of Project Design Complete (sliding scale 1-10)	**10.00**
Environmental Documents Complete	**15.00**
Environmental Decisions Obtained	**5.00**
ROW Obtained/Utilities Coordinated	**5.00**
Additional Environmental Permits Obtained	**5.00**
PROJECT VIABILITY TOTAL	***100.00***

RECOMMENDED MODIFICATIONS

Active Transportation Criteria and Sub-criteria	Weighting
PROJECT UTILITY	
Existing Usage and/or User Demand	**20.00**
System Continuity and Connectivity	**30.00**
Access to Transit or ~~Local/~~ Regional ~~Destinations~~ Activity Centers	*10.00*
Connections to Existing Bicycle/Pedestrian Facilities	*5.00*
Elimination of Barriers to Major Destinations/Addresses a Gap	*5.00*
Regional Significance	*5.00*
Resiliency	*5.00*
Safety	**30.00**
Crash History	*15.00*
~~Safety Improvement~~	
Level of Separation/ Network Quality	*10.00*
Associated with Safe Routes to School	*5.00*
~~Cost Effectiveness~~ (moved to Project Viablity)	**N/A**
Modal Enhancements	**20.00**
Enhances Other Categories	*10.00*
Access to Multimodal Choices (SMART SCALE)	*4.00*
First Mile/ Last Mile	*6.00*
~~Land Use/Future Development Compatibility~~ (moved to Project Viability)	***N/A***
PROJECT UTILITY TOTAL	***100.00***
ECONOMIC VITALITY	
Labor Market Access*	**20.00**
Increases Access for Major Employment Centers	
Addresses the Needs of Basic Sector Industries*	**20.00**
Provides or Improves Access for Defense Installations	*10.00*
Provides/Improves Access for Tourist Destinations	*10.00*
Increased Opportunity - Provides New Access to the Network*	**40.00**
Provides New Access to the Network	*10.00*
Supports Plans for Future Growth	*10.00*
Access to Institutions of Higher Education (includes work force development sites)	*10.00*
Urban Development Areas/ Governor's Opportunity Zones	*10.00*
Economic Distress Factors*	**20.00**
Provides Access to Areas with High Unemployment	*10.00*
Provides Access to Low Income Areas	*10.00*
ECONOMIC VITALITY TOTAL	***100.00***

*In terms of Economic Vitality, these measures are dependent on improved congestion and/or travel time

with cost effectiveness incorporated into Project Viability

PROJECT VIABILITY	
Project Readiness	**50.00**
Percent of Additional Fundin g (sliding scale 0-15)	15.00
Prior Commitment (project included in the currently adopted LRTP)	10.00
Project Design *Project alignment status (5 pts)* *Percentage of Project Design Complete (sliding scale 1-5)*	10.00
Environmental Documents Complete	5.00
Environmental Decisions Obtained	5.00
ROW Obtained/Utilities Coordinated	5.00
~~Additional Environmental Permits Obtained~~	~~5.00~~
Land Use/Future Development Compatibility	**20.00**
Environmental:	**10.00**
Acres of Natural and Cultural Resources (measures access to as a positive impact)	*6.00*
Air Quality/Emissions Reduction (Tons of emissions (HC and NOx) reduced per year)	*4.00*
Cost Effectiveness (Estimated Cost/(Project Utility + Economic Vitality scores)	**20.00**
PROJECT VIABILITY TOTAL	***100.00***

Attachment 6B