

Project Title : South Orchard Street, 6th Avenue to South 16th Street
Agency : City of Tacoma

TCC TECHNICAL APPLICATION
2014
PIERCE COUNTY REGIONAL COUNCIL
REGIONAL TRANSPORTATION IMPROVEMENT PROGRAM (TIP)
APPLICATION FORM TO REQUEST INCLUSION OF A PROJECT IN THE FFY 2015-2017 TIP

Supplementary information can be found in the Call for Projects. Incomplete or missing answers will be scored zero. Please respond to all unrelated questions with N/A.

APPLICANT INFORMATION

1. Please select an application type:

- Other
(Please answer Questions 1-23 and 55-63)
Potential score of 100
- Non-Motorized
(Please answer Questions 1-23 and 49-54)
Potential score of 100
- Preservation – Funding requests are limited to \$750,000 per agency
(Please answer Questions 1-23 and 38-48)
Potential score of 100
- Rural
(Please answer Questions 1-23 and 73-81)
Potential score of 100
- Transit
(Please answer Questions 1-23 and 64-72)
Potential score of 100
- Roadway application type not listed above
(Please answer Questions 1-23 and 24-37)
Potential score of 100

1a. Agency Contact Person

Name: Bryan Elkins

Address: 747 Market St.; Rm 520; Tacoma, WA 98402

Title: Professional Engineer

Telephone: (253) 591-5402

Email: belkins@ci.tacoma.wa.us

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2 Improvement Type: Please select ONE primary Improvement Type. Please indicate one Primary Improvement (PI) and any number of Secondary Improvements (SI).

ROADWAY			
	New Facility – Roadway		Bridge Replacement
	Relocation – Roadway	SI	Multiple Intersections – Roadway
	Environmental Improvement – Roadway		Single Intersection – Roadway
	Major Widening – General Purpose	SI	Safety – Roadway
	Major Widening – HOV		Grade Separation
SI	Minor Widening – No new capacity		Major Interchange – GP
	Minor Widening – New capacity		Major Interchange – HOV
PI	Preservation/Maintenance/Reconstruction	SI	Minor Interchange – GP
	Resurfacing		Minor Interchange – HOV
	New Bridge or Bridge Widening		Other – Roadway
	Bridge Rehabilitation		
NONMOTORIZED			
SI	Sidewalk	SI	Bike Lanes
	Regional Trail (Separate Facility)		Other – Nonmotorized
	Non-Regional Trail (Separate Facility)		
OTHER			
	Transportation System Management		Transportation Demand Management
	Intelligent Transportation System		Other – Special
	Study or Planning activity		
TRANSIT			
	New/Relocated Transit Alignment		New ferry route
	Transit Center or Station – new or expansion		Service Expansion – Ferry
	Flyer Stop		New/Relocated/Expanded terminal
	Transit Center or Station – Maintenance		Terminal Preservation
	Park and Ride (new facility or expansion)		New/Replacement Vessels – Passenger Only
	Vehicle Expansion		New/Replacement Vessels – Car/Pass
	Vehicle Replacement		Vessel Preservation/Rehabilitation
	Operations – Transit		Operations – Ferry
	Service Expansion – Transit		Other – Ferry
	Other – Transit		

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PROJECT TRACKING AND FUNDING

NOTE: Sponsors may request funding for any single phase of the project, but requests for multiple phases is limited to preliminary engineering plus the subsequent phase necessary. For instance, requests for multiple phases are limited to the combination of (1) preliminary engineering and right-of-way or (2) preliminary engineering and construction (no right-of-way and construction requests will be considered).

Required Match: A minimum of 13.5% of local matching funds is required for PSRC's FHWA funding. The following formula may be used to calculate the projects match:

To calculate the amount of matching funds, divide the federal funds requested by .865 and subtract the federal funds from this amount.

Example: Federal funds requested = \$100,000

$$\begin{aligned} \$100,000 / .865 &= \$115,607 \\ \$115,607 - \$100,000 &= \$15,607 \text{ local match required} \end{aligned}$$

Please note: The combination of the requested PSRC funds plus all other funding must be adequate to fully fund that phase. Requests that do not result in a phase being fully funded cannot be approved into the regional TIP and therefore will be considered ineligible for PSRC funding.

10. Grant Funds Requested

Phase (e.g., Planning Study/Project,, Preliminary Engineering, Right of Way, Construction, Other)	Estimated Obligation Date (year only)	Federal Funds Requested
Preliminary Engineering	2015	\$706,350
Right of Way	N/A	\$N/A
Construction	2016	\$4,639,300
		\$
		\$
		\$5,103,500

IMPORTANT: Please select 2015, 2016 or 2017 for estimated obligation year. Per PSRC's adopted project tracking policies, the deadline for obligating funds is June 1 of the selected obligation year. For more information, see:

<http://www.psrc.org/transportation/tip/tracking>

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11. Total Project Cost (\$6,289,000)

Guidance: To be programmed into the state Transportation Improvement Program, funds for the phase being requested must be secure or reasonably expected to be secure. Unsecured funds will not be considered. Please use the website following link to assist in completing the following table:

www.psrc.org/assets/7911/Definitions_SecuredandUnsecuredFunding.pdf

A	B	C	D	Project Phase			
				E	F	G	H
Fund Source	Secured, reasonably Expected, or Unsecured?	Obligation Date (Yr Only)	\$ Amount by Funding Source	Planning	Prelim. Eng/ Design	Right-of-Way	Construction / Implementation
Local	Expected	2015	\$ 943,350		\$ 124,650		\$ 818,700
(name) Co-op Jurisdiction	N/A						
(name) Private Funds	N/A						
(source) Grant	None						
Other	N/A						
Other	N/A						
Other	N/A						
Grant Request	Unsecured	2015	\$5,458,000		\$ 706,350		\$4,639,300
TOTAL			\$6,289,000		\$ 831,000		\$5,458,000

If unable to completely fill out Tables #10-12, please explain why: _____

11a. Provide additional information on any funds identified in the table above as reasonably expected to be secure. For example, identify the estimated approval date of funds for the project into the 6-year program; if pursuing a limited improvement district, bonding, or other local funding mechanism, when will that occur and what additional steps are required, etc. For more information on the definition of secured, reasonably expected, and unsecured funds, refer to:
<http://www.psrc.org/assets/11214/FinancialConstraintGuidance.pdf>
 Per the attached City of Tacoma memorandum dated April 29, 2014, the City is allocating local match funds through the Gas Tax for the years 2015-2017.

THE FOLLOWING RESPONSES WILL BE SCORED FOR PROJECT PRIORITIZATION.

PROJECT READINESS

12. **Cooperating Jurisdictions and Private Sector Support, if any: Provide names of all jurisdictions and private parties, contributing funds would be applied, and the percentage of total project funds provided.** The percentage shall be expressed based on the costs of the requested phases under the current application. Contributing funds for prior phases shall not be considered. **Applicants that have been previously awarded grant funding for their project CANNOT use the grantor as a cooperating jurisdiction.**

Letters of Commitment from all cooperating jurisdictions and private sector support must be attached to receive points: Yes _____ No _____

Cooperating Jurisdiction	Phase	Dollar Amount of Participation	Percentage of Current Application
Total:			

- _____ 5 % or more 3 points
- _____ 3 to 4 % 2 points
- _____ 1 or 2 % 1 point

COMMITTEE SCORE _____
 (Max. score of 3)

Private Sector Support	Phase	Dollar Amount of Participation	Percentage of Current Application
Total:			

- _____ 5 % or more of total project costs 3 points
- _____ 3 to 4 % of total project costs 2 points
- _____ 1 or 2 % of total project costs 1 point

COMMITTEE SCORE _____
 (Max. score of 3)

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17. **Is the project or phase ready for implementation? (One point per box. Please check all that apply)**

Obligate funds in 2015 (receives 2 points)	X	Environmental process complete* (must provide a signed ECS by FHWA or WSDOT H&LP)	
Obligates funds in 2016 (receives 1 point)	X	Funding requested here completes project or fully implements the project	X
ROW plans approved by WSDOT		Purchase of ROW certified or not required	X

*Note: NEPA will NOT be finalized until the "next" project phase is funded in the STIP.

PE in 2015
CN in 2016

COMMITTEE SCORE _____
(Max. score of 6)

Please provide information on your project readiness to proceed:

Design Status (% complete): Choose an item.

Project Phase	Status	Actual or Expected Completion Date
Preliminary Engineering	Not complete	12/30/2016
Environmental Approval	N/A	Click here to enter a date.
Right-of-Way Certification	N/A	Click here to enter a date.

If construction funds are being requested, please describe any ROW needs for the project, including the number of parcels needed, whether property owners are expected to cooperate (and your agency's experience with condemnation and/or whether it is willing to go to condemnation if needed).

No additional ROW is required for this project.

17a. Will other secured or reasonably secured funding benefits be missed if the project remains unfunded in 2015, 2016 or 2017?

Yes _____ No X (Include information about other funding benefits.)

Please explain:

COMMITTEE SCORE _____
(Max. score of 1)

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18. Pierce County Regional Growth Centers Hierarchy and Connecting Corridors criteria: Is the project located in (1-3) or serving (4-6) any of the following? (Please check all that apply).

1. Metropolitan Center (scores 1 point)	X	4. Corridor Supporting one (1) or more Regional Manufacturing/Industrial or Candidate Center (scores 2 point)	
2. Regional or Candidate Growth Center Manufacturing/Industrial or Candidate Center (scores 2 points)		5. Corridor Supporting one (1) or more Centers (scores 1 point)	X
3. Countywide Center or Locally Identified Center (see approved PCRC Map) (scores 1 point)	X	6. Corridor Supporting two (2) or more Centers (scores 1 point)	X

Local city and town centers provide local job, service, cultural, and housing areas for their communities. They serve as focal points where people come together for a variety of activities, including shopping and recreation. These central places must be identified in local comprehensive plans, or should be advancing towards that goal. These areas are to become priority areas for future investments and growth at the local level.

List and describe centers and attach map.

South Orchard Street from 6th Street to South 16th Street is a corridor that connects to multiple local centers within the Metropolitan City of Tacoma (See Exhibit 1). These local centers include: the Neighborhood Center located at the North 25th Street & North Proctor Street; the Neighborhood Center located on 6th Avenue between Cedar Street and Sprague Avenue; and the Community Center located on Pearl Street from North 21st Street to North 30th Street with a westbound off-ramp and on-ramp onto State Route 16 (SR-16) providing connectivity to the region.

COMMITTEE SCORE _____
(Max. score of 8)

19. Is the project on a transit route? (Transit routes that “intersect” are okay only when the project improves the intersection)

Guidance: Sound Transit route information is available at <http://www.soundtransit.org/Schedules>
Pierce Transit route information is available at <http://www.piercetransit.org/pierce-transit-routes/>

- Yes, full project length _____ 2 points
- Yes, partial or intersection X 1 point
- No _____ 0 points

If yes, provide route number(s) Route 28 at the intersection of Orchard and South 12th Street; and Route 1 at the intersection of Orchard and 6th.

COMMITTEE SCORE _____
(Max. score of 2)

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20. What is the peak number of transit vehicles per hour within the project limits? **(Transit routes that “intersect” are okay only when the project improves the intersection)**

Guidance: Sound Transit route information is available at <http://www.soundtransit.org/Schedules>
 Pierce Transit route information is available at <http://www.piercetransit.org/pierce-transit-routes/>

Peak number of transit vehicles per hour Route 11 (Route #1 has 7 peak trips; and Route #28 has 4)

4 or more transit vehicles X 2 points
 1 to 3 transit vehicles 1 point

COMMITTEE SCORE
 (Max. score of 2)

21. **Does this project specifically improve non-motorized access for trips to any of the following (check all that apply). Provide a map showing all checked items.**

Transit locations (0-2 trips/day)	X	Schools	X	Household/Retail	X	Commercial Areas	X
Transit locations (0-5 trips/day)	X	Grocery Store	X	Parks and Recreation	X	Cultural Facilities (museums, libraries, etc.)	X
Transit locations (0-5+ trips/day)	X	Medical	X	Employment Centers	X	*Other	X

1 point each item

*Please describe:

Restaurants at the intersection of Orchard Street and 6th.

COMMITTEE SCORE
 (Max. score of 12)

22. **Does this project provide contiguous gap-closure to a previously funded transportation route?**

(Gap closure projects may improve the facility to a standard equal to those sections on either end of the project. Gap closure project may provide a missing link of a facility that leads to a single connected facility. Gap closure projects are not limited to roadway sections and may include pedestrian paths, bicycle paths, trails, bridges, or any other transportation project which completes the system.)

Yes, Final Section 3 points
 Yes, Next Section 2 point
 No X 0 points

If yes, please name adjacent segments; provide their funding source, and completion date: _____

COMMITTEE SCORE _____
(Max. score of 3)

23. Describe how the project has the potential to reduce emissions?

Guidance: The application process will walk project sponsors through specific questions designed to determine the potential emissions reductions of their project. For example, projects involving fuel or vehicle conversions will be asked to provide information on the total number of vehicles affected, the current fuel and vehicle usage conditions, as well as the conditions after the project is implemented. Projects expected to result in an increase in transit usage will be asked to provide information on the current transit ridership and transit routes affected, as well as the specifics of the project – i.e., how will the individual project encourage or promote new transit riders. Projects providing new or more frequent/expanded transit service would be expected to result in a higher level of new transit riders than projects providing improvements in existing transit travel times or enhanced amenities to existing service. Projects resulting in improvements in traffic flow will be asked to provide information on the current travel conditions, amount of idling, number of trucks using the route, etc. As mentioned above, the magnitude of the project and the timing of the anticipated benefits will play a role in the final score, and all projects will be evaluated against each other.

Please explain:

The project proposes to provide a 5-ft wide bicycle lane per each direction of travel (between 6th Avenue and South 12th Street), as well as a non-motorized share use path (between South 12th Street and South 16th Street). These amenities will be able to connect with the existing Scott Pierson multi-use trail to a future bicycle network along 6th Avenue and South 12th Street. With the City developing an encompassing bicycle network, this should encourage citizens to use alternate methods of travel within the City, hence reducing greenhouse gases. Also, the signal interconnect between the Orchard/6th Ave and Orchard/South 12th Street intersections will reduce emissions due to less idling time and greater traffic flow efficiency.

High: A project will rate high if:

- It will substantially reduce emissions of greenhouse gases and other air pollutants, or will substantially reduce fine particulates from diesel exhaust; and
- The air quality benefits will occur by 2020.

Medium: A project will rate medium if:

- It will moderately reduce emissions of greenhouse gases and other air pollutants, or will moderately reduce fine particulates from diesel exhaust (for example, a project that reduces VMT by shortening a vehicle trip, rather than eliminating a vehicle trip); and
- The air quality benefits will occur by 2025.

Low: A project will rate low if:

- It results in a low amount of emissions reductions; and
- The air quality benefits will occur after 2025.

High = _____ 5 points
Medium = X 3 points
Low = _____ 2 points
0 = _____ 0 points

COMMITTEE SCORE _____
(Max. score of 5)

ROADWAY APPLICATION

24. Does the project include signal interconnection, pre-empt, or other ITS improvements?

Describe the existing conditions in the area (i.e., level of service, average daily traffic, etc.), and describe how the ITS improvement is expected to improve traffic flow (increase speed, reduce idling, remove accidents, etc.).

Please describe:

A signal interconnect will be provided for the intersections between South 12th Street and 6th Street. This improvement will help improve traffic flow and reduce idling.

- Yes, Significant Improvement _____ 2 points
- Yes, Minor Improvement X 1 point
- No _____ 0 points

COMMITTEE SCORE _____
(Max. score of 2)

25. Are the environmental/water quality improvements greater than the minimum requirements?

Please describe:

Provision of water quality and detention facilities as part of the road improvements.

Projects that incorporate Green Stormwater Infrastructure (rain gardens, bioretention, porous pavements, etc.) AND retain 100% of stormwater on site. _____ 3 points

Projects that add more than 5,000 square feet of new impervious surface and provide water quality/quantity treatment for ALL (new and existing) impervious surfaces within the project area. X 2 points

Projects that add less than 5,000 square feet of new impervious surface and that provide water quality and quantity treatment OR provides water quality treatment for 150% of new impervious surfaces. _____ 1 point

COMMITTEE SCORE _____
(Max. score of 3)

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26. **Does the project include horizontal or vertical roadway adequacy improvements? (Supporting documentation should include a map, design drawing, or narrative statement specifically addressing the horizontal/vertical improvements.) Please describe:**

No. _____

(Narrative or supporting documents are required.)

COMMITTEE SCORE _____
(Max. score of 4)

27. **Does this project add a new illumination system?**

- Yes, full project corridor length _____ 3 points
- Yes, partial project corridor length X 2 points
- Yes, at an intersection only _____ 1 point
- No _____ 0 points

COMMITTEE SCORE _____
(Max. score of 3)

28. **Does the project include a new traffic control device that satisfies 2 or more traffic warrants?**
Does the project install a roundabout in lieu of the traffic signal?

- Yes, a roundabout will be installed in lieu of a traffic signal _____ 3 points
- Yes, a traffic signal will be installed _____ 2 points
- Yes, other solution _____ 1 point
- No, the intersection does not meet 2 warrants X 0 points

Please describe the other solution:

COMMITTEE SCORE _____
(Max. score of 3)

29. **Will this project improve the efficiency and accessibility of trucks to freight distribution facilities and/or other intermodal connections?**

Please explain: This corridor project connects multiple local Neighborhood Centers and SR-16 with the Manufacturing Industrial Center – Port of Tacoma and its marine terminals via its connection to South 12th Street and is located within 4 miles of the project.

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- Yes, this project is located within a Manufacturing Industrial Center (MIC), is located on a classified Truck Route (T1-T2) and is within 2 miles of a marine terminal, intermodal or transload facility _____ 3 points
- Yes, this project is located within a Center, is located on a classified Truck Route (T1 –T3) and is within 2 miles of a marine terminal, intermodal or transload facility _____ 2 points
- Yes, this project is located on a corridor connecting two centers (one must be a MIC) and is within 4 miles of a marine terminal, intermodal or transload facility _____ X 1 point

COMMITTEE SCORE _____
(Max. score of 3)

30. Will this project correct a significant safety problem by implementing a seismic retrofit, guardrail, attenuator and barriers, or other devices?

Guidance: The explanation and supporting material will be scored within a range of 0 to 4 points.

Please explain the existing problem and provide supporting data (accidents, police reports, etc...):
Curb and gutter where there is no curb and gutter providing a barrier between pedestrians and vehicles along with a providing bicycle lanes further delineating vehicles from non-motorized modes of transportation. A Transportation Improvement Board (TIB) 2010 Urban Accident Analysis is provided in this submission.

COMMITTEE SCORE _____
(Max. score of 4)

31. Does the project include a new bicycle lane or separated NM facility for the full length of the project?

- Yes, a separated NM facility _____ 3 points
- Yes, striped lane 5 feet or greater _____ X 2 points
- Yes, shared lane 3 feet or greater in width _____ 1 point
- No _____ 0 points

COMMITTEE SCORE _____
(Max. score of 3)

32. Does this project improve the transportation system by widening turn lanes or removing corridor conflicts?

Guidance: Modes of transport may include vehicular, rail, non-motorized...

Please explain:

Yes, with the provision of sidewalk, bicycle lanes, a separated non-motorized shared use path, and improving

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turn lanes at the intersection of Orchard and South 12th Street; the project will help improve the transportation system. For the pedestrian mode of transportation, currently the road does not have any sidewalk between South 16th Street and South 13th Street. With the addition and improvement of sidewalks for the corridor, this mode of transportation is improved. For the bicycle mode of transportation, there are currently no bicycle lanes on Orchard Street. With the addition of bicycle lanes, this mode of transportation is improved along the corridor. By providing the widening of lanes at the intersection of Orchard and South 12th Street, along Orchard Street, this corridor is improved.

- Removes conflicts for three modes of transport X 2 points
- Removes conflicts for one mode of transport 1 point
- Improves system without removing conflicts 0 points

COMMITTEE SCORE _____
 (Max. score of 2)

PICK AND SCORE ONE ONLY (33 or 33A)

33. Percent of heavy trucks (3 axles min) 2 %
Basis for determining truck percentage (a description is required to score points)
Typical pavement section design for the City of Tacoma uses 8% of Average Daily Traffic for determining the pavement section with 2% being used for heavy truck (3-axle min.) traffic percentage.

- Over 10% 5 points
- 5 to 9% 3 points
- 2 to 4% X 1 point

OR

33A. Truck Route Classification (see link <http://www.wsdot.wa.gov/Freight/FGTS/CountyMaps.htm>)

- T-1: more than 10 million tons per year 5 points
 - T-2: 4 million to 10 million tons per year 4 points
 - T-3: 300,000 to 4 million tons per year 3 points
 - T-4: 100,000 to 300,000 tons per year 2 points
 - T-5: at least 20,000 tons in 60 days 1 point
 - Locally designated truck route 1 point
- (Must be in Code or Comprehensive Plan and attached)

COMMITTEE SCORE _____
 (Max. score of 5)

34. Does this project add a dedicated turn pocket or lane-drop at one or more intersections?

- Yes 1 point
- No X 0 points

COMMITTEE SCORE _____
 (Max. score of 1)

35. Does this project add a two-way, left-turn lane (TWLTL) or a center median between two or more intersections?

- Yes, adds a continuous TWLTL or a continuous center median 3 points
- Yes, adds a non-continuous TWLTL or a non-continuous center median 2 points
- No X 0 points

COMMITTEE SCORE _____
 (Max. score of 3)

