

2024

TIB FUNDING WORKSHOP

Urban Programs



Notes:

Workshop Agenda

Emphasis for 2024

What's New for 2024

Funding Timeline

Program Overviews

Other Considerations

Open Discussion



Notes:

Continued Emphasis for 2024

Appropriate Roadway Sections

Narrow roads have advantages: safer for pedestrians, lower cost to build and maintain, and controls motor vehicles speeds.

Do not include non-eligible elements in application

Design and PS&E Review

Change orders

General

Cross-sections



AASHTO's *A Policy on Geometric Design of Highways and Streets* states: "Lane widths of 11-ft. are used quite extensively for urban arterial street designs. The 12-ft. lane widths are desirable, where practical, on high-speed, free-flowing, principal arterials."

Institute of Transportation Engineers' *Designing Walkable Urban Thoroughfares: A Context Sensitive Solution* states: "Wide streets can reduce the level of pedestrian interchange that supports economic and community activity. Wide streets discourage crossings for transit connections... On collectors with a target speed below 30 mph, a 10-ft. lane width may be appropriate."

WSDOT *Design Manual M22-01.14 Exhibit 1231-2 Lane Width Considerations for Low Speed (<35 mph)* states: "11-ft. lanes are common on urban arterials. Lane widths of 10-ft. may be appropriate in constrained areas with low truck and bus volume. In pedestrian oriented sections, 10-ft. lanes can be beneficial in minimizing crossing distance."

NCHRP's *Recent Roadway Geometric Design Research for Improved Safety and Operations* states: "Research found no general indication that the use of lanes narrower than 12-ft. on urban and suburban arterials increased crash frequencies."

Florida Department of Transportation's *Freight Roadway Design Considerations (DRAFT)* states: "Narrower lanes that discourage high vehicle speeds may be safer for accommodating interactions between large vehicles and non-motorized modes, even though the narrower lanes put the two users in closer proximity to each other."

Non-eligible Work

If there is utility work or work outside of the approved scope, then do not include the costs in the application.

If there is non-eligible work within the TIB funded schedule, then show it in the application. Do not show non-eligible schedules or non-eligible work on the application.

PS&E Review

It is recommended that you submit a 60% design package for review to minimize late comments just prior to the advertisement date.

Change Orders

Keep your region engineer updated on any potential change orders throughout the project.

Crack Seal (APP)

Crack seal should be completed as maintenance and is no longer eligible.

General

TIB now offers quarterly training to review various program requirements and more in depth general project management. This training is intended for local agencies and consultants who are new to TIB programs or those interested in a detailed refresher.

Cross-Sections

WSDOT Manual chapter 1520 provides guidance for bike lanes using user type, speed, and ADT.

Notes:

What's New for 2024?

Chip seal is now eligible for Arterial Preservation Program (APP)

Complete Streets Program 2.0

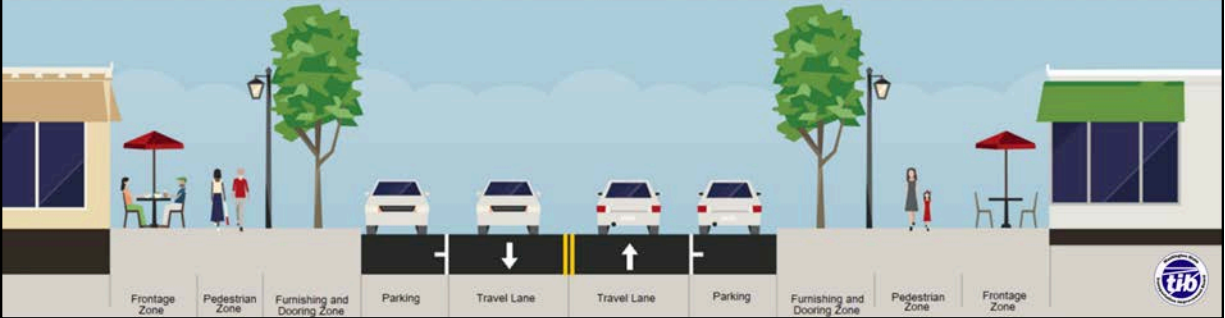
Work adjacent to WSDOT right-of-way



Notes:

Basic Cross-Section Design

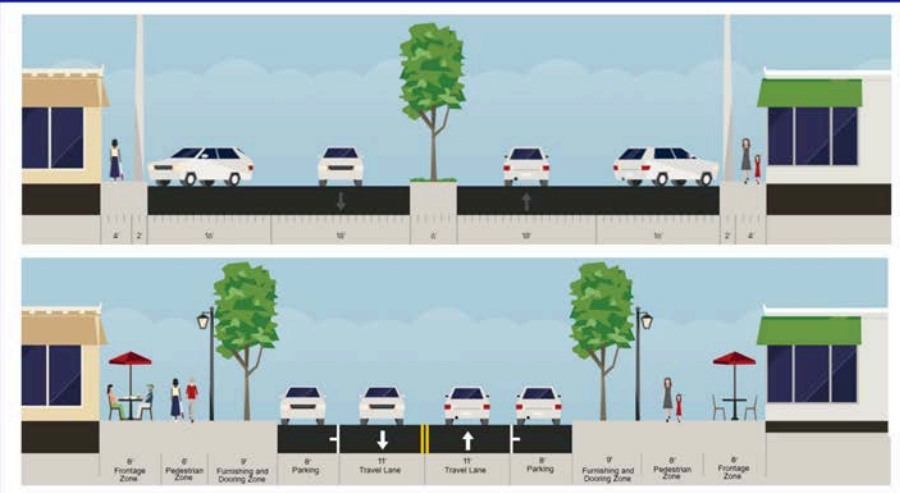
- **Frontage Zone** – adjacent land use support
- **Pedestrian Zone** – movement of pedestrians, ADA
- **Furnishing Zone** – transitional, buffer, and services
- **Parking Zone** – freight business delivery, bike/car access
- **Traveled Way** – movement of vehicles



Cross-section design alternatives can be created at <https://www.streetmix.net>

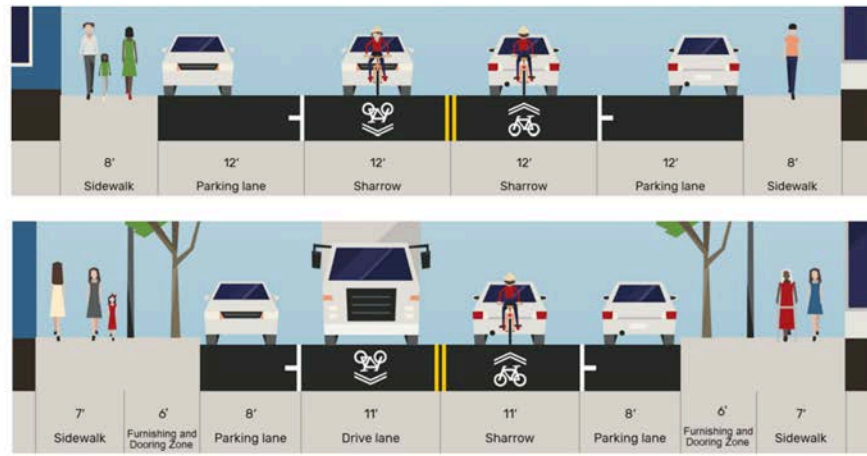
Notes:

Cross-Section Design



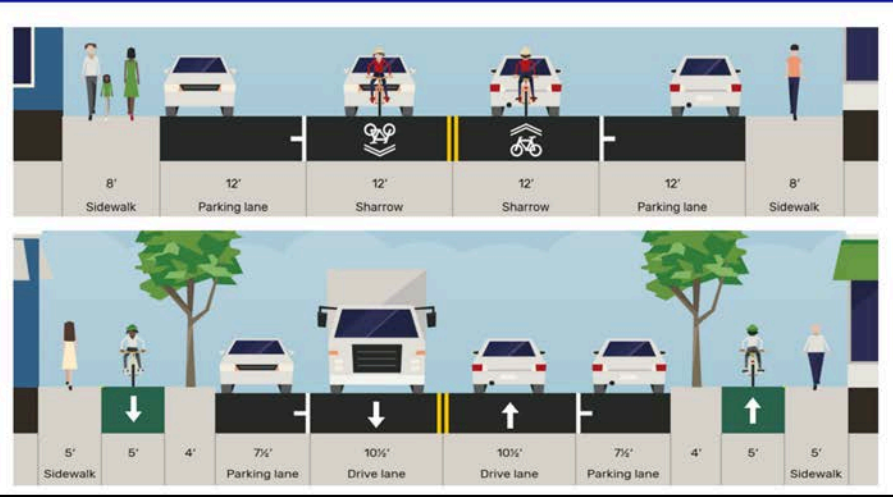
Notes:

Cross-Section Design



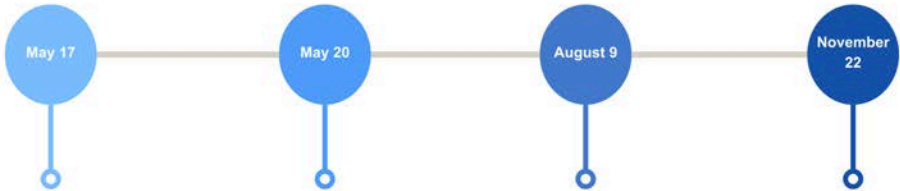
Notes:

Cross-Section Design



Notes:

Funding Timeline



Board approves
program target sizes.

TIB opens call for
projects and begins
funding workshops
in all regions.

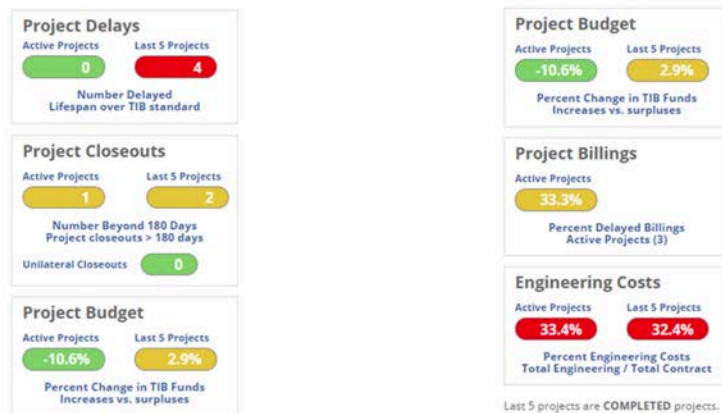
Applications due to
TIB.

Board selects
projects.



Notes:

Agency Performance



TIB monitors the following project trends for an agency:

- Inventory
- Project delays
- Schedule extends beyond TIB standard
- Project closeouts
- Closeout not completed within 90 days of 5% remaining funds
- Project budget
- Change in cost from application to closeout
- Project billings:
 - Payment requests on a regular basis
 - At least quarterly during design
 - Monthly during construction
- Engineering costs:
 - Engineering Percent = $\frac{\text{Engineering Costs}}{\text{Contract Cost}}$
 - WAC rules limit TIB participation for engineering to 30% of contract cost. Good bids are not justification for engineering over 30%
- Application history:
 - Last application submitted
 - Applications versus funded projects

Program Overviews

UAP

Urban Arterial Program

ATP

Active Transportation Program

APP

Arterial Preservation Program

CSP

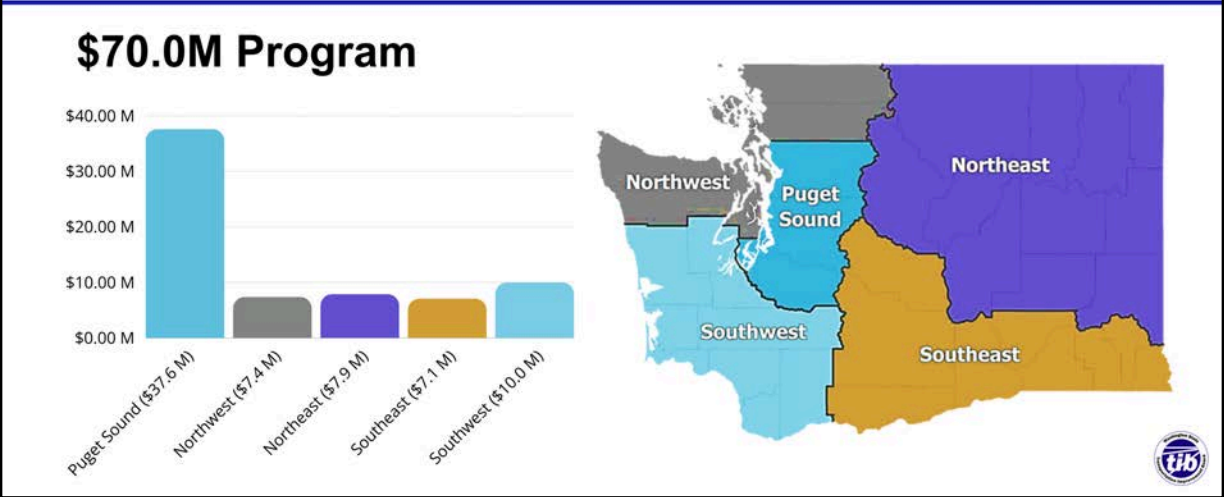
Complete Streets Program



Notes:

UAP

Urban Arterial Program



Regional allocation is based on population and lane miles.

Allocations are updated annually.

Projects typically range from \$1 million to \$5 million:

- Request the lowest amount needed to secure full funding between logical limits.
- Funding limited by regional distribution.

Notes:

UAP Goals



- Improve safety
- Support commercial growth and development
- Improve mobility
- Improve physical condition



Goals align with legislative charter.

Ensure projects that support state transportation policy goals receive funding.

Notes:

UAP Project Attributes

Design Considerations

- Considers all users in improvements
- Sidewalks
- Appropriate cross-sections

Project Types

- Full reconstruction
- Pavement rehabilitation
- Overlay
- New street



Design considerations:

- A sidewalk is required on both sides of the street.
- Minimum five-foot width with no obstructions.
- Must be ADA compliant.
- TIB will consider sidewalk deviations at application.
- Include your deviation request with the application.
- Deviations are granted when omitting sidewalk is justified.
- Consider all users when scoping improvements.
- Include non-motorized, transit and freight improvements where appropriate.

Notes:

UAP Banding



Each application is scored in all four of the following bands unless agency chooses to opt out of bands:

- Safety
- Growth & Development
- Mobility
- Physical Condition

All applications receive a score for:

- Sustainability
- Constructability

Band score is determined by the following equation:

$$\text{Criteria Band Score} + \text{Sustainability Score} + \text{Constructability Score}$$

Points are only one of several considerations during application review.

Notes:

Safety Band

Crash history

Countermeasures



Crash data requirements:

- Use data from the three most current years
- Crash history must be correctable to be included in the analysis
- Request data from WSDOT as soon as possible

Crash History:

- Incidences with fatalities
- Incidences with injuries
- Property damage only incidences

Countermeasures:

- Access control
- Intersection control
- Increases sight distance
- Corrects offset/skewed intersection
- Grade separation
- Adds pedestrian facilities

Notes:

Commercial Growth and Development Band

- Public support
- Private support
- Permitted development activity
- Location



Points are awarded for site specific development or redevelopment. No points awarded if the improvement is already in place.

Public support:

- Utilities onsite

Private support:

- Percent of permits issued
- Development agreement status
- Private investment in public infrastructure

Permitted development activity:

- Dwelling units constructed in the development
- Acreage of the development being developed
- Permanent jobs created by the development

Location:

- Development location.
- Project proximity.
- Dependence of development on the project.

Mobility Band

• Congestion and level of service

• Network connectivity

• Modal access

• Features



A traffic study stamped by a Washington State Professional Engineer must be submitted with your application. *TIB will compare the current Level of Service (LOS) to the anticipated Level of Service post-project.*

Congestion and Level of Service:

- Significant congestion problem
- Improves LOS within project limits or new route
- Addresses congestion on the system or adjacent routes
- High volume or significant route

Network Connectivity:

- Complete/extend corridor improvements
- Complete gap/extend improvements
- What does the project connect to? (highest classification)

Modal Access:

- Improve transit access
- Improve connections to non-motorized access
- Improve freight facilities

Features:

- Relieves bottleneck
- Improves access to CBD or urban center.
- Traffic signal interconnect

Physical Condition Band

- Existing condition

- Non-Pavement condition

- Existing attributes

- Loading

- Sidewalk condition



Existing condition:

- Pavement Condition Rating (PCR) as rated by TIB engineer or;
- Bridge condition based on sufficiency rating
- Only for bridges with full federal bridge funding

Non-pavement condition:

- Walls
- Storm water conveyance
- Bridges or culverts
- Slope stability

Existing attributes:

- Fixed objects
- Access control
- Alignment
- Channelization
- Turning radius
- Sight distance
- Completes or extends improvements

Loading:

- Volume
- Truck route classification
- Buses

Sidewalk condition:

- Does not meet standards
- Overall sidewalk condition

Sustainability

• Modal measures

• Energy
measures

• Environmental
measures

• Pavement
recycling



Evaluates inclusion of sustainable design and well-tested, reliable techniques to minimize environmental impacts.

Adopted Complete Streets ordinance.

Modal measures:

- Adds queue jump or transit only lane
- Peak hour transit buses
- Appropriate sidewalk cross-section
- Bicycle facilities

Energy Measures:

- Install roundabout versus warranted signal (new intersection)
- Convert signalized intersection to roundabout
- Convert stop-controlled intersection to roundabout

Environmental Measures:

- Adopted Greenhouse Gas Emission Policy
- Low Impact Drainage (LID) practices or enhanced treatment
- (Incorporate bio-swales, rain gardens or other LID practices)
- Hardscaping or climate-appropriate planting- no permanent irrigation
- Appropriate roadway cross-section

Pavement Recycling:

- In-place pavement recycling based on approved pavement design

Constructability

• Funding

• Construction readiness

• Ease of implementation

• Likelihood for success



Evaluates the likelihood the project will successfully reach completion. TIB's risk management scoring category.

Full Funding:

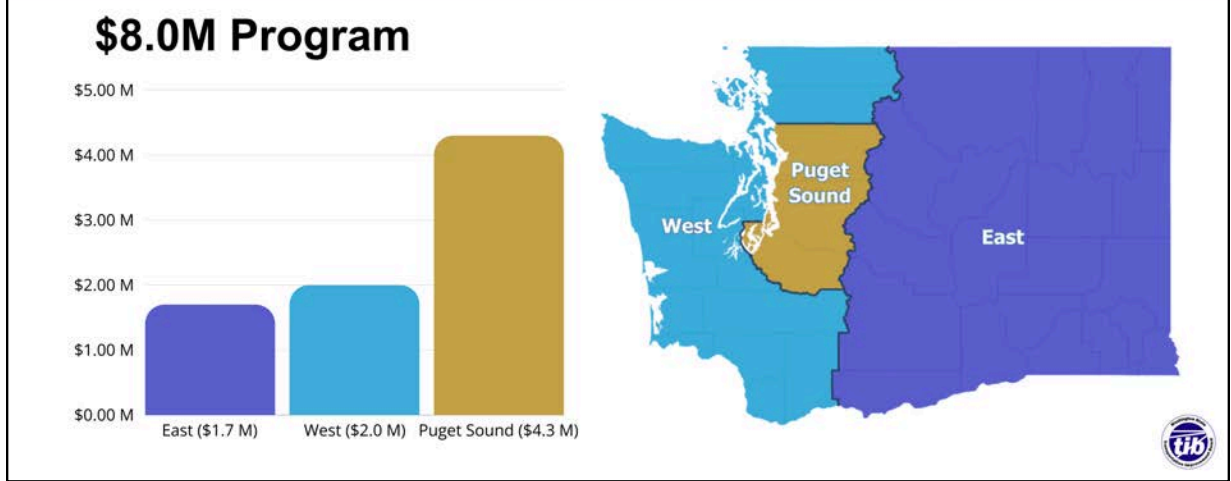
- Overmatch or construction ready
- Adopted TBD or locally dedicated transportation funding by ordinance
- Full funding in place

Construction readiness and ease of implementation:

- Plans, specifications and estimate complete
- Permitting complete
- Cultural resource assessment complete
- Right-of-way certified or not required
- No federal funding
- Use of accelerated construction methods
- No railroad impact
- Utility upgrades status

Notes:

ATP Active Transportation Program



ATP funding is distributed to three regions. Regional allocation based on population and lane miles. Allocations are updated annually.

Typical grant size:

- Typical funding ranges from \$150,000 to \$750,000 per project.
- Contact your TIB engineer if the application is outside of the typical funding range.

Notes:

ATP Goals



- Improve Pedestrian and Non-Vehicular Safety
- Create System Continuity
- Link Pedestrian and Non-Vehicular Generators



Improve pedestrian and non-vehicular safety and enhance mobility by providing access, system continuity and connectivity.

Projects provide facilities on or adjacent to agency-owned streets.

Projects should focus on a corridor within an urban activity center or between pedestrian/non-vehicular generators.

Notes:

ATP Scope

Project types

Multiple segments and type of work



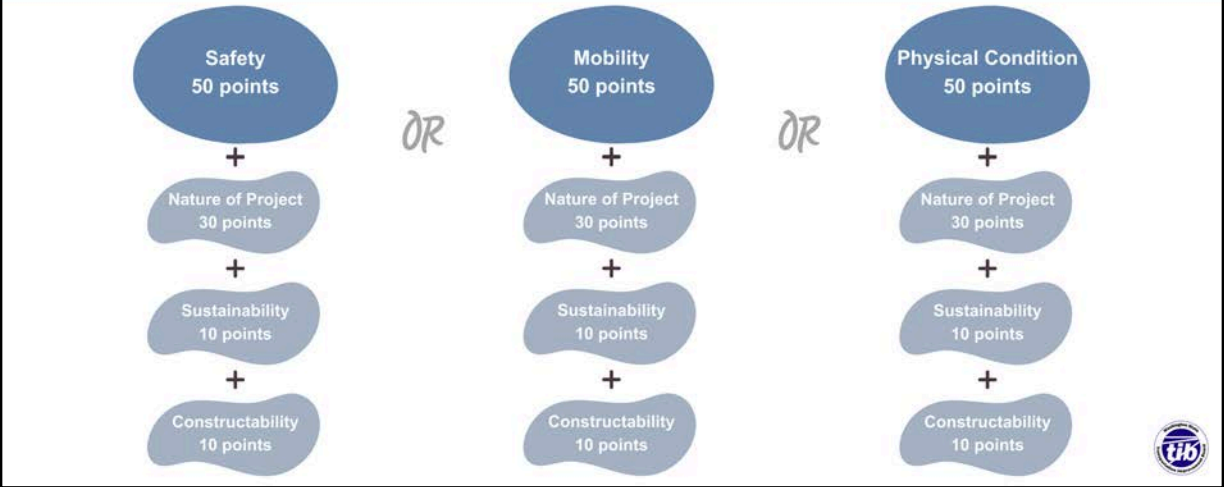
Eligible project type examples (this is not an all-inclusive list):

- Sidewalk
- Shared use path
- Bike facilities
- Mid-block crossings
- Rectangular Rapid Flashing Beacons (RRFB)

If applying for multiple segments, submit multiple applications. One application per segment/type of work.

Notes:

ATP Banding



Each application is scored in all three of the following bands unless agency chooses to opt out of bands:

- Safety
- Mobility
- Physical Condition

All applications receive a score for:

- Nature of project
- Constructability
- Sustainability

Band score is determined by the following equation:

Criteria band score + Nature of project score + Constructability score + Sustainability score = 100-point max

Points are only one of several considerations during application review.

Notes:

Safety Band

- Documented crash involving pedestrian or cyclist

- Existing hazards



Documented crash involving pedestrian or cyclist:

- Bike/Ped crash with vehicle
- Bike/Ped crash non-vehicle

Existing Hazards (high/medium/low):

- Obstructions
- Sight distance
- Speed
- Volume (AADT)
- Exposure (number of users)

Notes:

Mobility Band

Accessibility

- Transit access
- Business access
- Public facilities access

Community

- High-density housing
- Identified community needs



Accessibility to public facilities, such as:

- Schools
- Community Center
- City Hall
- Police/Fire Station
- Park

Notes:

Physical Condition Band

- Width
- Surface type
- Condition
- Obstructions
- Visibility
- Drainage issues
- Deep ditches
- Inadequate signage



Notes:

Nature of Project

• New sidewalk

• Existing facility

• New bicycle facility

• Pedestrian or bicycle crossing



Choose the one type which best fits your project.

New Sidewalk:

- Number of ADA barriers removed
- Extends improvements
- Length of improvement
- Adds speed management
- Appropriate cross-section

Existing Facility:

- Number of ADA barriers removed
- Length of improvement
- Restores network
- Adds speed management
- Appropriate cross-section

New Bicycle Facility (bike lanes or multi-use path):

- Number of ADA barriers removed
- Extends improvements
- Length of improvement
- Adds speed management
- Appropriate cross-section

Pedestrian or Bicycle Crossing:

- Number of ADA barriers removed
- Increases visibility
- Shortens crossing distance
- Adds appropriate ped/bicycle treatments
- Adds speed management

Sustainability

- Adopted Greenhouse Gas Emissions Policy

- Adopted Complete Streets Ordinance

- Hardscaping or climate-appropriate plantings

- Low impact drainage practice

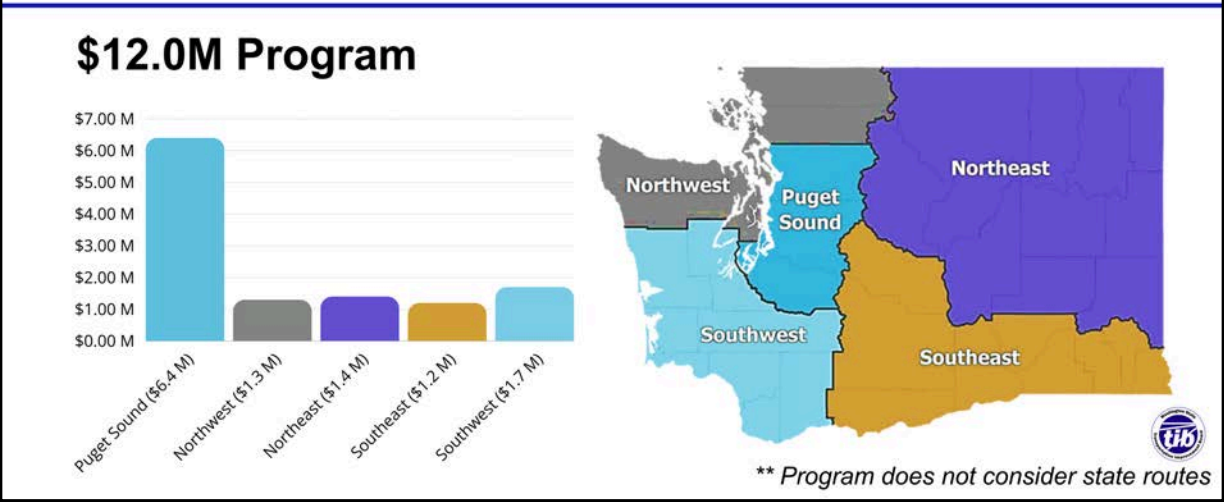


Low impact drainage practice:

- Use bio-swales, rain gardens, or other low impact drainage practices.

Notes:

APP Arterial Preservation Program



Regional allocation based on population and lane miles.

Allocations updated annually.

Notes:

APP Overview

Assessed Valuation Criteria

- Less than \$3 Billion

Cities Not Eligible in 2024

- Battle Ground
- Fife
- Walla Walla



Assessed valuation received annually from the Washington State Department of Revenue.

Notes:

APP

Typical Project Scope



- One application for all segments
- Surfacing
- Upgrade ADA ramps if required
- Non-eligible items



ONE APPLICATION for ALL segments.

Road preparation and repair (except crack seal).

Surfacing:

- Overlays limited to two-inch depth – If more than two inches are needed, apply under UAP
- Seal coat

Examples of non-eligible elements:

- Landscaping
- Drainage (except for small adjustments)
- Illumination
- Construction of new sidewalk
- Guardrail
- Signing
- FDR
- Paving fabric
- Fiber paving additive

APP Rating Criteria

- Reviewed for:
Treatment and
scope, timing, and
location

- Underground work
completed before
treatment

- No federal funds



Agency rating:

- Economy of scale
 - Requires written response from provider
 - Funded local street improvement (non-FHWA)
- Deliverability
 - Past performance of TIB projects

Segment rating:

Each segment's score is based on existing pavement condition rating (PCR).

- Route classification
 - Principal arterial
 - Minor arterial
 - Urban collector

Number of ADA ramps TIB is funding:

- None
- 1-5
- 6-9
- 10+

CSP Complete Streets Program

**\$30.0M Program
Statewide Program**



To be eligible, you must have adopted a jurisdiction-wide Complete Street ordinance.

Over 165 agencies have adopted a Complete Street ordinance.

The Legislature increased funding in this program with new requirements.

The Complete Streets awards program was recently revised. The following items have been updated:

- Apply for Complete Streets awards during normal call, which are anticipated every year
- Typical awards range from small implements to full complete street upgrades
- Typical funding can vary
- Does not have to be a federally classified route
- Awards may be partially funded by the Climate Commitment Act

Notes:

Other Project Considerations

Project
Application
Considerations

Reimbursement
Information

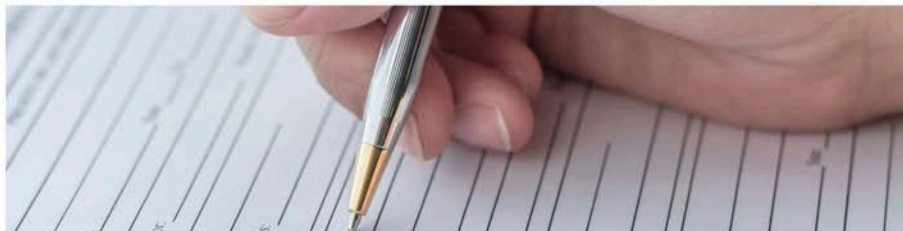
Local Match
Information



Notes:

Project Application Considerations

- Federally functional classified route for UAP, APP, ATP
- Problem and need statement
- Project cost estimate
- ADA features survey
- In agency's adopted six-year TIP for UAP and ATP
- Application review
- Utilities
- Project billings
- Consistent with other plans
- Realistic schedules
- WSDOT concurrence
- Delayed or at-risk projects



TIB requires the following for an application to be considered for funding:

- Street must be classified on the Federal Functional Classification System (except for Complete Streets).
- Project is included on the agency's adopted Transportation Improvement Program (UAP and ATP).
- Project is consistent with agency and regional plans.
- Project is consistent with agency's adopted complete streets ordinance.

Problem/Need Statement

- Make sure the requested need corrects the stated problem.

Application review

- Ensure application is reviewed thoroughly before submittal.
- Individual signing application must have authority to incur debt on your agency.
- Project cost estimate indicates all components of work for the project.

Project Schedule

- Please provide as realistic project schedule. The TIB cash flow is dependent on the schedules provided.
- A simple design schedule **MUST** be submitted with your application.
- If your project schedule changes, update your region engineer with justification.
- Promptly closeout projects.

Project Cost Estimate

- The estimate is reviewed and signed by an engineer licensed in the state of Washington.
- Provide accurate estimates without the inclusion of inflation contingencies.

Utilities

Utility work shall be fully funded and built before the TIB project or during the TIB project. Consider ordering materials or building prior to TIB project due to current supply delays which causes construction delays.

WSDOT concurrence

- Required for projects located on or adjacent to a state highway.
- Written WSDOT concurrence of project concept required with application submittal.
- ADA features survey is an eligible cost but is considered part of Construction Engineering if used.

Project Billings

- TIB expects project progress to begin soon after project selection.
- Projects should bill regularly:
 - Quarterly during Design
 - Monthly during Construction

Delay/At-Risk

Understand the delay and at-risk consequences for your project (WAC 479-05-211)

Projects are considered delayed when one of the following occurs:

1. Urban program projects do not reach the construction phase within four years and six months.
2. Projects awarded funding as "construction ready" will be considered delayed if construction does not begin within one year of funding becoming available.
3. All other programs must reach the construction phase within two years and six months.

The award date or date funding is made available to the local agency by TIB, whichever is earlier, is the starting point in calculating the delay date.

TIB also considers projects delayed when they don't maintain the schedule submitted on the application. **Projects may be terminated for lack of progress.**

Reimbursement Information

Transportation Improvement Board does not reimburse for the following:

- Costs exceeding WAC limitation
- Excess property
- Work outside of limits or scope of project
- New utility or utility upgrades
- Fiber or paving fabric in HMA



Engineering costs exceeding the limitations set in WAC 479-05-170.

- Design and construction engineering cannot exceed 30% of the eligible construction contract.
- Construction-only projects are limited to 20% of the eligible construction contract.

Landscaping cost above the limitation set in WAC 479-05-130.

Limited to 5% of the total eligible construction contract (with some exceptions).

Right-of-way in excess of what is needed to construct the project (APP/ATP- right-of-way not eligible).

Work outside of the project limits or approved scope.

New utilities or utility upgrades.

Fiber and paving fabric are not TIB eligible. If you use fiber or paving fabric, place it as a separate bid item.

Local Match Requirements

Required minimum local match:

City Assessed Valuation	Local Match
Under \$1 billion	10 percent
\$1 to \$2.5 billion	15 percent
Over \$2.5 billion	20 percent

County Road District Valuation	Local Match
Under \$3 billion	10 percent
\$3 to \$10 billion	15 percent
Over \$10 billion	20 percent



UAP/ATP

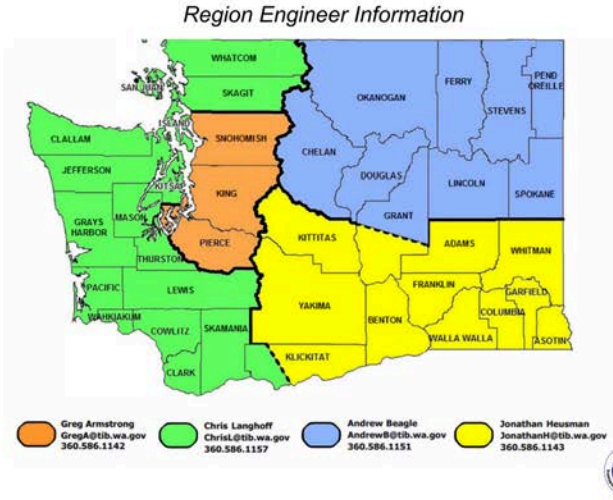
- Local match includes contributions from the lead agency, other agencies, federal and/or private sources.
- The local match requirement for your agency is shown when you select your agency name from the dropdown on the application form.
- Non-eligible cost is not considered part of your local match.
- Previous work already completed is not an eligible cost or considered part of local match.

APP

- Cannot be combined with a federally funded project.

Notes:

Open Discussion



Notes:

Appendix



Transportation Improvement Board

Project Cost Classifications

PROJECT COSTS ARE ELIGIBLE ONLY AFTER TRANSPORTATION IMPROVEMENT BOARD (TIB) PHASE APPROVAL

DESIGN PHASE

Design phase costs are those incurred after TIB approval of design phase.

DESIGN ENGINEERING

- Development of plans, specifications, and cost estimate
- Geotechnical services
- Environmental/Permitting costs
- Advertisement for consulting services and/or contract
- Project-specific supplies, equipment, or services
- Cultural resource assessment (if required)
- Value engineering study (if required)
- Other project-related study when justified

RIGHT-OF-WAY

- Preparation of right-of-way plans
- Appraisal costs
- Parcel acquisition costs
- Legal and administrative fees associated with acquisition

CONSTRUCTION PHASE

Construction phase costs are those incurred after award of the contract through contract completion.

CONSTRUCTION ENGINEERING

- Construction management
- Construction inspection (including WSDOT inspection)
- Construction surveying
- Materials testing

CONSTRUCTION OTHER

- Local agency work completed outside the primary contract but part of approved scope
- Procurement of equipment/materials outside of the primary contract but part of approved scope

CONTRACT AMOUNT

- Work conducted by all contractors as part of the approved scope
- Eligible change order costs

ENGINEERING COSTS INCLUDE:

All consultant costs, WSDOT reviews/inspection, local agency management, materials testing, construction surveying, engineering and project management related work and supplies.



Transportation Improvement Board TIB Project Guidance

TIB Matching Ratio	$= \frac{\text{Total TIB Funds}}{\text{Eligible Project Cost}}$ <ul style="list-style-type: none"> • This Ratio is set at project selection • Usually does not change during project life
TIB Reimbursement Ratio	$= \frac{\text{Total TIB Funds}}{\text{Total Project Cost}}$ <ul style="list-style-type: none"> • This ratio is different than the TIB Matching Ratio if the project has non-eligible cost • Changes during the life of the project as the non-eligible cost increases or decreases
Engineering Costs	<p>Design & Construction Phase Projects</p> <ul style="list-style-type: none"> • Engineering costs more than 30% of the Contract costs are typically not eligible for TIB participation. “Good bids” are not justification for more than 30% <p>Construction Phase Only Projects</p> <ul style="list-style-type: none"> • Engineering costs more than 20% of the eligible Contract costs are typically not eligible for TIB participation
Minor Changes	<ul style="list-style-type: none"> • Costs are considered non-eligible until Contract Completion • At Contract Completion, TIB reviews costs to determine if eligible
Landscaping	<ul style="list-style-type: none"> • Landscaping costs that exceed 5% of the eligible Contract cost are not eligible for TIB participation
Right-of-Way Acquisition	<p>UAP & SCAP Only</p> <ul style="list-style-type: none"> • Only right-of-way necessary for construction of the project is eligible for TIB participation • Right-of-way costs are not eligible under the Active Transportation Program
Sidewalk Requirements	<ul style="list-style-type: none"> • Hard surfaced facility with a minimum width of five feet with no obstructions • Sidewalk is physically separated from the travel lanes with curb, ditch, or swale
ADA Access	<ul style="list-style-type: none"> • Use most current design standards for sidewalk and sidewalk ramps
Change Orders	<ul style="list-style-type: none"> • TIB may not participate in the cost of Change Orders. Contact your region engineer to determine eligibility prior to approving Change Orders.
Executive Order 21-02	<ul style="list-style-type: none"> • Department of Archaeology & Historic Preservation (DAHP) determines if a project requires a Cultural Resource Assessment (CRA) • Project CRA concurrence letter from DAHP is required prior to advertising the project
Consultant Agreement	<p>Small Cities Only</p> <ul style="list-style-type: none"> • Use the TIB Consultant Agreement and TIB Consultant Agreement Supplement forms • Must be reviewed by TIB Project engineer before execution • For projects with Federal funding, use the Local Agency Guidelines (LAG) Consultant Agreement Supplement forms