

## SR 285 EAST WENATCHEE TO US 2

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### **CHARACTERISTICS**

#### **Segment Description:**

SR 285 begins at SR 28 in East Wenatchee and ends in Wenatchee near US 2.

**County/Counties:** Douglas/Chelan

**Cities/Towns Included:** SR 285 passes through the communities of East Wenatchee and Wenatchee.

**Number of lanes in the corridor:** 3 to 5

**Lane width:** 12 to 12 feet.

**Speed limit:** 30 to 45 mph.

**Median width:** 6 to 15 feet.

**Shoulder width:** 0 to 10 feet.

#### **Highway Characteristics:**

This urban principal arterial carries primarily a T-2 freight designation. The downtown Wenatchee portion along Mission Street is a T-3 freight designation.

#### **Special Use Lane Information (HOV, Bicycle, Climbing):**

A two-way left turn lane serves sections of the corridor for a total distance of just over one and a half miles.

#### **Access Control Type(s):**

SR 285 begins with Full Control Limited Access in East Wenatchee, changes to Partial Control Limited Access at the Columbia River (George Sellar Bridge), then to Class 5 Managed Access through downtown Wenatchee, and ends with Class 4 Managed Access along Wenatchee Avenue.

#### **Terrain Characteristics:**

The SR 285 corridor begins with one tenth of a mile of rolling terrain and the remainder is level terrain.

#### **Natural Features:**

Access to city parks adjacent to the Columbia River and bike paths.

#### **Adjacent Land Description:**

SR 285 is adjacent to commercial businesses.

#### **Environmental Issues:**

There is the potential for impacting historical properties. Being an urban corridor, there is noise and other societal impacts to consider.

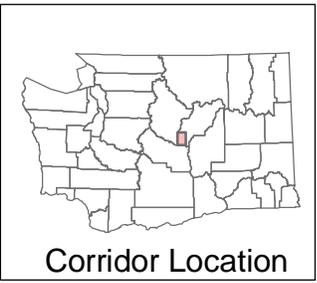
#### **Major Economic Issues:**

This route provides one of only two crossings of the Columbia River and connects the cities of East Wenatchee and Wenatchee. The corridor is part of a larger corridor section that includes the 285 couplet. This corridor has an important role in Wenatchee's economic development and freight movement.

HSP Congested  
Corridor Analysis  
**Characteristics**



- Milepost Marks
- █ HSP Corridor Location
- ══ U.S. Interstate
- ══ U.S. Highway
- ══ State Route
- ══ Local Roads
- ++ Railroad
- ▨ Wetlands
- ▨ Military Reservation
- ▨ Tribal Lands
- ▨ City Limits
- ▨ Urban Area
- ▨ County Line



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## SR 285 EAST WENATCHEE TO US 2

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### **ASSETS**

#### **Pavement:**

There are 18.32 lane miles of Hot Mix Asphalt on this segment of SR 285.

#### **Signal:**

There are seventeen signalized intersections. Signals inside Wenatchee city limits are maintained by the city.

#### **Structures:**

There are four structures in this corridor that consist of: one Steel Arch Concrete T-Beam, one Post-Tensioned Box Girder, one Steel Girder Concrete Box Girder and one Steel Truss Steel Beam.

(Ramps, and locally owned structures (if any exist) are not identified in this section and may not be reflected on maps.)

#### **Features Crossed:**

Bridge 285/010 crosses the Columbia River. Bridge 285/15 crosses Wenatchee Avenue. Bridge 285/020E and Bridge 285/020W cross the Wenatchee River, 285/025 crosses Penny Road.

#### **ITS Facilities:**

One automated data collection site at Milepost 0.21. Two closed circuit television cameras; one on each end of the George Sellar Bridge.

#### **Railroad Crossings:**

SR 285 has two crossings over the railroad; 065822S and 065842D. These are not at-grade crossings. These are located at the West end of bridge 285/10 and at the South end of bridges 285/20E&W

#### **Asset Other:**

None Identified.

# HSP Congested Corridor Analysis

## Assets



HSP Corridor Location

### Assets

- Signalized Intersection
- At Grade Railroad Crossings
- Bridge
- Ferry Terminals
- Ferry Route
- Park and Ride
- Weigh Stations
- Rest Area Sites

### Corridor Pavement Type

- HMA
- BST
- PCCP

### Other Features

- U.S. Interstate
- U.S. Highway
- State Route
- Local Roads
- Railroad
- Military Reservation
- Tribal Lands
- City Limits
- Urban Area
- Airport
- County Line

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## SR 285 EAST WENATCHEE TO US 2

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### *USAGE*

#### **General Origin and Destination Travel Characteristics:**

Much of the traffic using SR 285 crosses the Columbia River to/from Wenatchee/East Wenatchee as well as accessing I-90 and the communities along SR 28. The route serves local freight movement as well as Quincy, Ephrata, Moses Lake and I-90.

#### **Snow/ice Issues:**

Due to adjacent curb and sidewalk snow storage reduces capacity. This is the result of storing snow in either the two way left turn lane or the center lane in the three-lane sections.

#### **Annual Average Daily Traffic:**

Ranges from 11,000 to 50,000.

#### **Significant Seasonal Average Annual Daily Traffic Changes:**

Minimal seasonal variations along the corridor.

#### **General Description of Major Average Annual Daily Traffic Locations:**

The George Sellar bridge carries an annual average daily traffic (AADT) of 50,000. Traffic volumes drop to 11,000 - 18,000 on the one-way portion of SR 285 and increase to 27,000 - 38,000 on Wenatchee Avenue.

#### **Freight:**

**Freight Classification:** T2

**Yearly Tonnage:** 1.7M to 6.1M

**Truck Percentage of Annual Average Daily Traffic:** 4%

#### **Additional Usage Comments:**

There are no additional comments.

**Average Annual Societal Cost of All Collisions:** Approximately \$6.37M

#### **Collisions:**

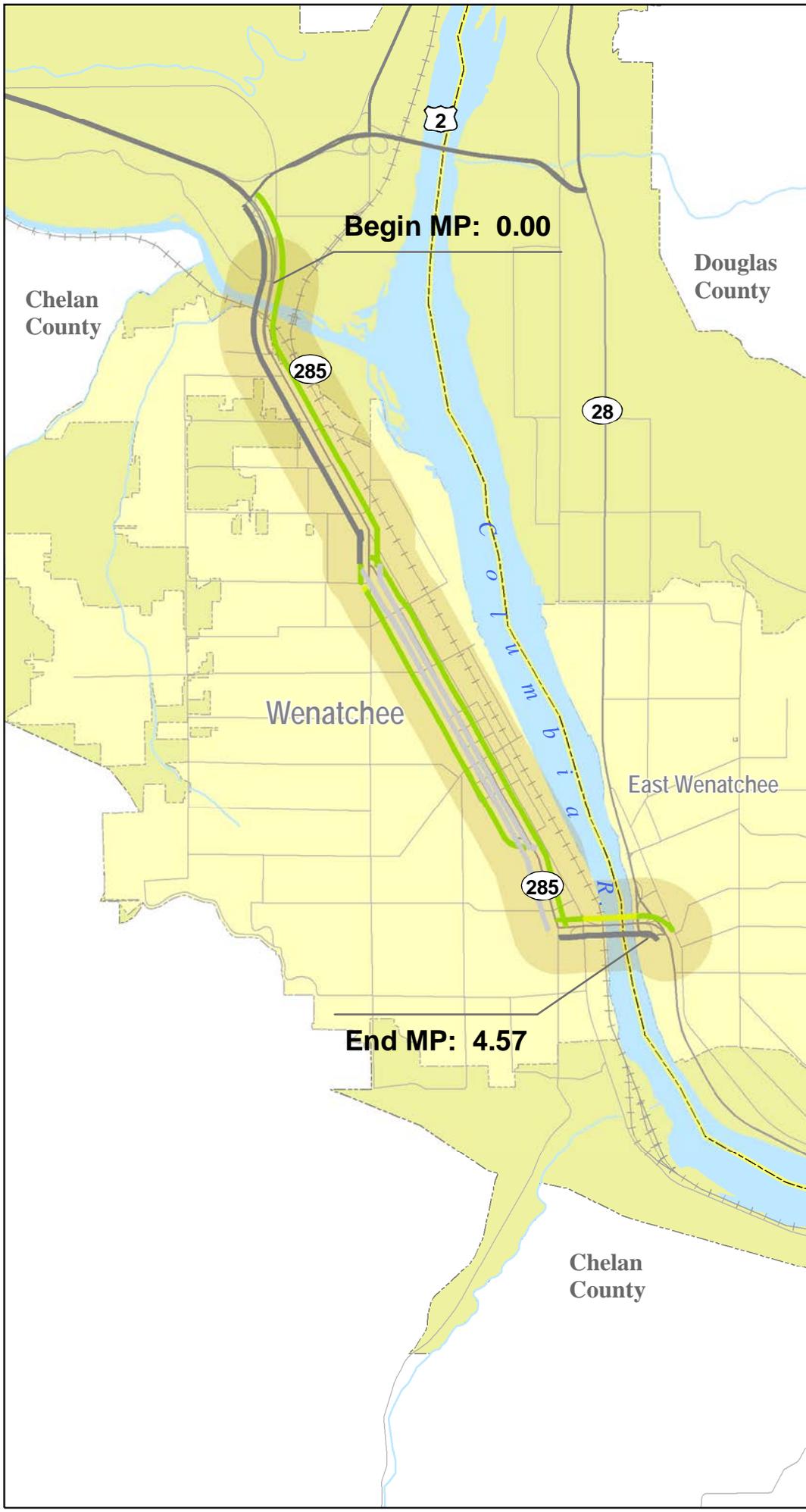
**Severe No of Collisions:** 8

**Less Severe No of Collisions:** 548

**List Data Years:** 2003 to 2005

# HSP Congested Corridor Analysis

## Usage



- HSP Corridor Location
- Safety Analysis Areas**
- PAL Spot 07-09
- PAL Corridor 07-09
- HAC 07-09
- HAL Corridor 07-09
- HAL Spot 07-09
- Freight Classification**
- T-1
- T-2
- T-3
- Traffic Sections AADT**
- < 3,000
- 3,001 - 10,000
- 10,001 - 20,000
- 20,001 - 40,000
- 40,001 - 80,000
- 80,001 - 100,000
- 100,001 - 120,000
- > 120,000
- Trucks 10% and Over
- Other Features**
- U.S. Interstate
- U.S. Highway
- State Route
- Local Roads
- Railroad
- Tribal Lands
- Military Reservation
- City Limits
- Urban Area
- County Line

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## ***NEEDS AND STRATEGIES***

### **Preservation**

#### **Pavement Condition and Needs:**

Will follow the objectives of the Washington Pavement System.

#### **Pavement Management Strategies:**

Will follow the objectives of the Washington Pavement System.

#### **Structures Condition and Needs:**

Bridge 285/010 --Functionally Obsolete -- an additional eastbound lane is scheduled for construction in 2009. (This may include ramps and locally owned structures if any exist.)

#### **Structures Management Strategies:**

There are none identified.

#### **Additional Condition and Needs:**

There are none identified.

#### **Additional Management Strategies:**

There are none identified.

### **Improvement**

#### **Mobility Condition and Needs:**

There are none identified.

#### **Mobility Management Strategies:**

There are none identified.

#### **Safety Condition and Needs:**

High Accident Location from Milepost 0.61 to 0.98

#### **Safety Management Strategies:**

The city has instituted a low cost pedestrian safety project.

#### **Environmental Condition and Needs:**

There are none identified.

#### **Environmental Management Strategies:**

There are none identified.

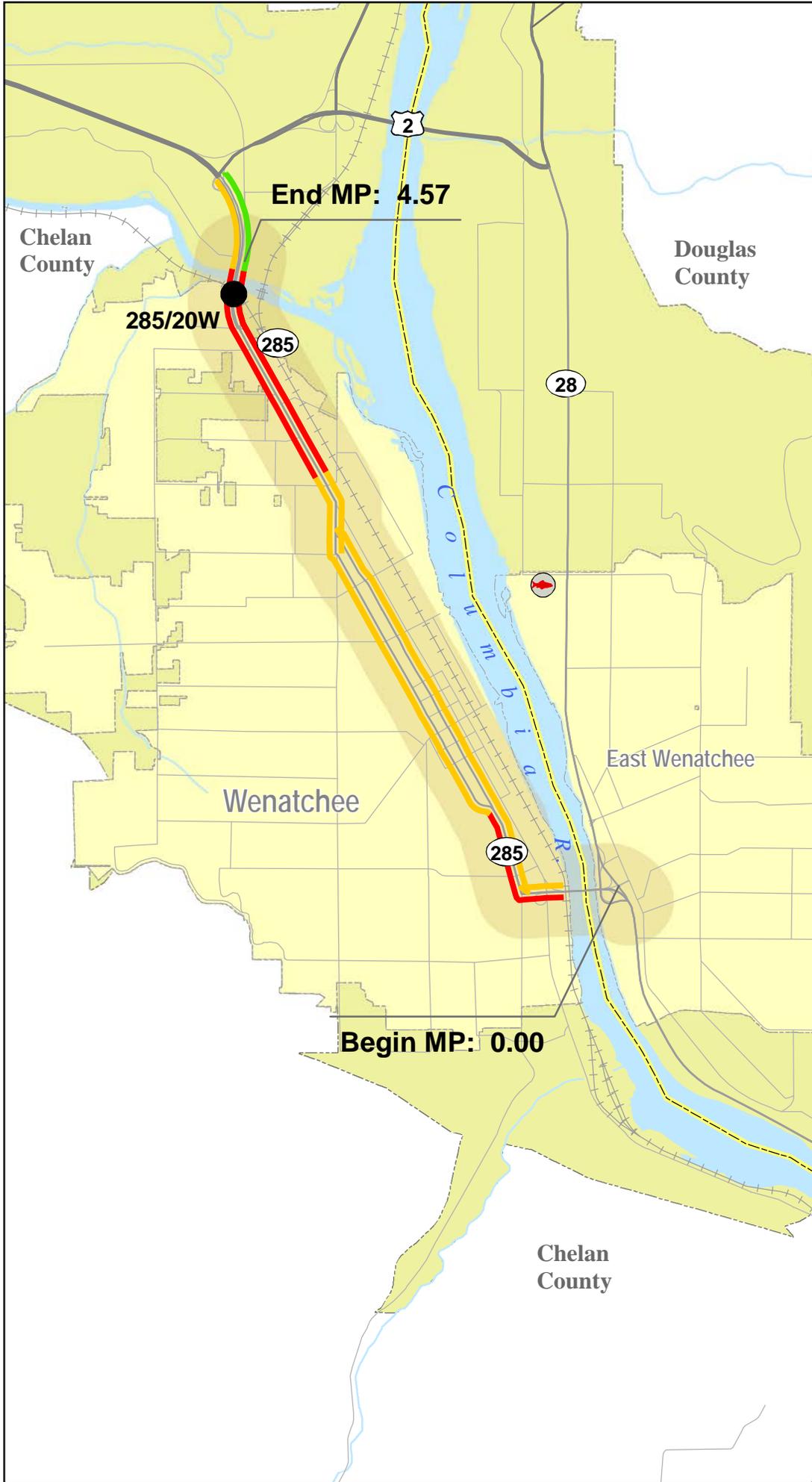
#### **Restrictions:**

There are none identified.

#### **50-Year Configuration:**

None identified.

# HSP Congested Corridor Analysis Needs



- HSP Corridor Location
- Bridge Priorities**
  - Replacement
  - Special
  - Seismic
  - Scour
  - Painting
  - Miscellaneous
  - Bridge Deck
- Other Bridge Issues**
  - 2 Lane BW Narrow Bridge
  - Restricted Bridge
  - Posted Bridge
  - Vert. Clearance < 15.5'
- Unstable Slope**
  - Debris Flow
  - Erosion
  - Landslide
  - Rockfall
  - Settlement
- Fish Passage Barriers**
  - Require Repair
  - Little Gain
  - Undetermined
- Paving Due**
  - Past Due
  - 2005 - 2007
  - 2008 - 2009
  - 2010 - 2011
  - 2012 - 2026
- Other Features**
  - U.S. Interstate
  - U.S. Highway
  - State Route
  - Local Roads
  - Railroad
  - Military Reservation
  - Tribal Lands
  - City Limits
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***TIERED PROPOSED SOLUTIONS***

**Minimum Fix**

**Description:**

Signal Timing and camera use to better manage the traffic flows through the segment.

**Delay Reduction:** None identified.

**Collision Reduction:** None identified.

**Deficient Concrete Lane Miles:** None identified.

**Total Estimate Cost:** \$1 M

**Cost Estimate Explanation:**

Preliminary scoping.

**Minimum Fix Benefits:**

Better traffic flow management.

**Moderate Fix**

**Description:**

West end of the George Sellar Bridge access improvements.

**Delay Reduction:** None identified.

**Collisions Reduction:** None identified.

**Deficient Concrete Lane Miles:** None identified.

**Total Estimate Cost:** \$30 M

**Cost Estimate Explanation:**

Preliminary scoping.

**Moderate Fix Benefits:**

Increase traffic flow through intersection.

**Maximum Fix**

**Description:**

Additional (third) Columbia River Crossing and extending Western Avenue (\$70M includes Sunnyslope I/C).

**Delays Reduction:** None identified.

**Collisions Reduction:** None identified.

**Deficient Concrete Lane Miles:** None identified.

**Total Estimate Cost:** \$260 M to \$70 M

**Cost Estimate Explanation:**

Previous design analysis.

**Maximum Fix Benefits:**

Provide alternative traffic corridors for traffic entering or leaving Wenatchee to East Wenatchee or to the West.

## SR 285 EAST WENATCHEE TO US 2

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### **Off-System Solutions:**

None identified.

### **Special Studies/Reports:**

None identified.

### **Required Studies**

None identified.

### **Start/Completion Date of Study:**

None identified.

### **Expected Results**

None identified.

### **Funded Projects within Corridor Limits**

<b>Project No</b>	<b>Title</b>
228501D	SR 285/City of Wenatchee - Paving
228500A	SR 285/George Sellar Bridge - Additional eastbound Lane
228501X	SR 285/W End of the George Sellar Bridge - Intersection Improvement

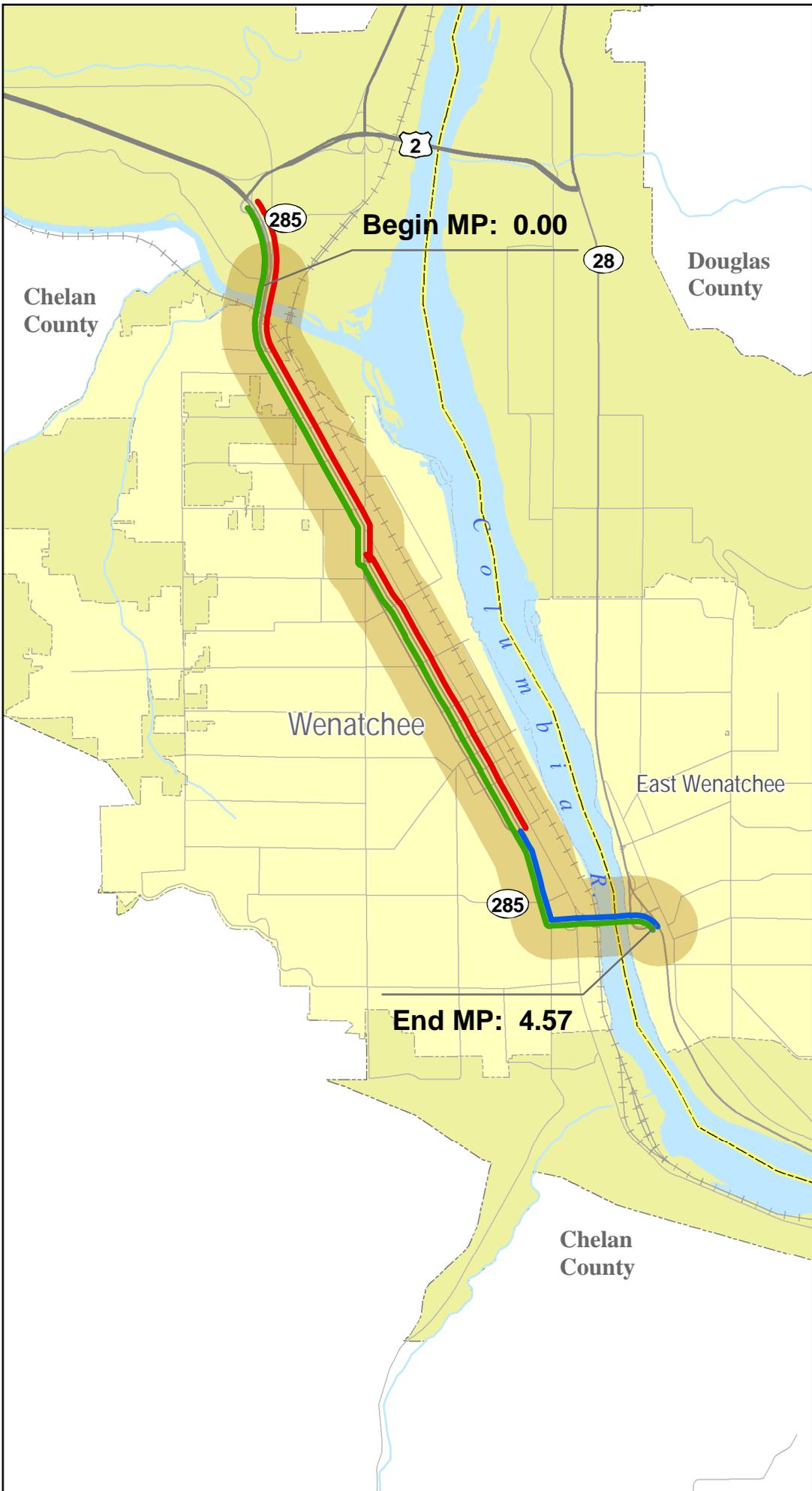
### **Additional Comments:**

None identified.

### **Data Sources and Contacts used:**

TRIPS State Highway Log  
TRIPS Roadway Classification Log  
TRIPS Standard Accident History Report  
TRIPS State Highway Miles and General Purpose Lane Miles  
2002 Bridge List  
TDO/Ruth Decker - 2005 FGTS (2004 data)

# HSP Congested Corridor Analysis Solutions



- HSP Corridor Location
- Solutions**
- Tier 1
- Tier 2
- Tier 3
- U.S. Interstate
- U.S. Highway
- State Route
- Milepost Marker
- Local Roads
- Railroad
- Military Reservation
- Tribal Lands
- City Limits
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