

## US 2 LEAVENWORTH VICINITY

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### **CHARACTERISTICS**

#### **Segment Description:**

This section of US 2 is located in Leavenworth.

**County/Counties:** Chelan

**Cities/Towns Included:** This section is located entirely within the city of Leavenworth.

**Number of lanes in the corridor:** 2 to 2

**Lane width:** 11.5 to 12 feet.

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

**Median width:** 0 to 0 feet.

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

#### **Highway Characteristics:**

US 2 is a Highway of Statewide Significance as well as part of the National Highway System. It is classified as a rural principal arterial and carries a T-3 freight designation. It is also designated a scenic byway.

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

A two-way left turn lane and eastbound bicycle lane are provided for almost the entire section and a westbound bicycle lane serves the entire section.

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

This section of US 2 is Class 5 Managed Access.

#### **Terrain Characteristics:**

This section of US 2 has flat terrain.

#### **Natural Features:**

There is a city park within this section.

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

This section of US 2 is located entirely within the city limits of Leavenworth. It is adjacent to commercial businesses.

#### **Environmental Issues:**

Historical properties, potential wetlands if a new route is selected, and urban development conflicts. Societal impacts include increased noise, historical buildings and residential units.

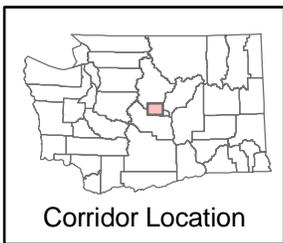
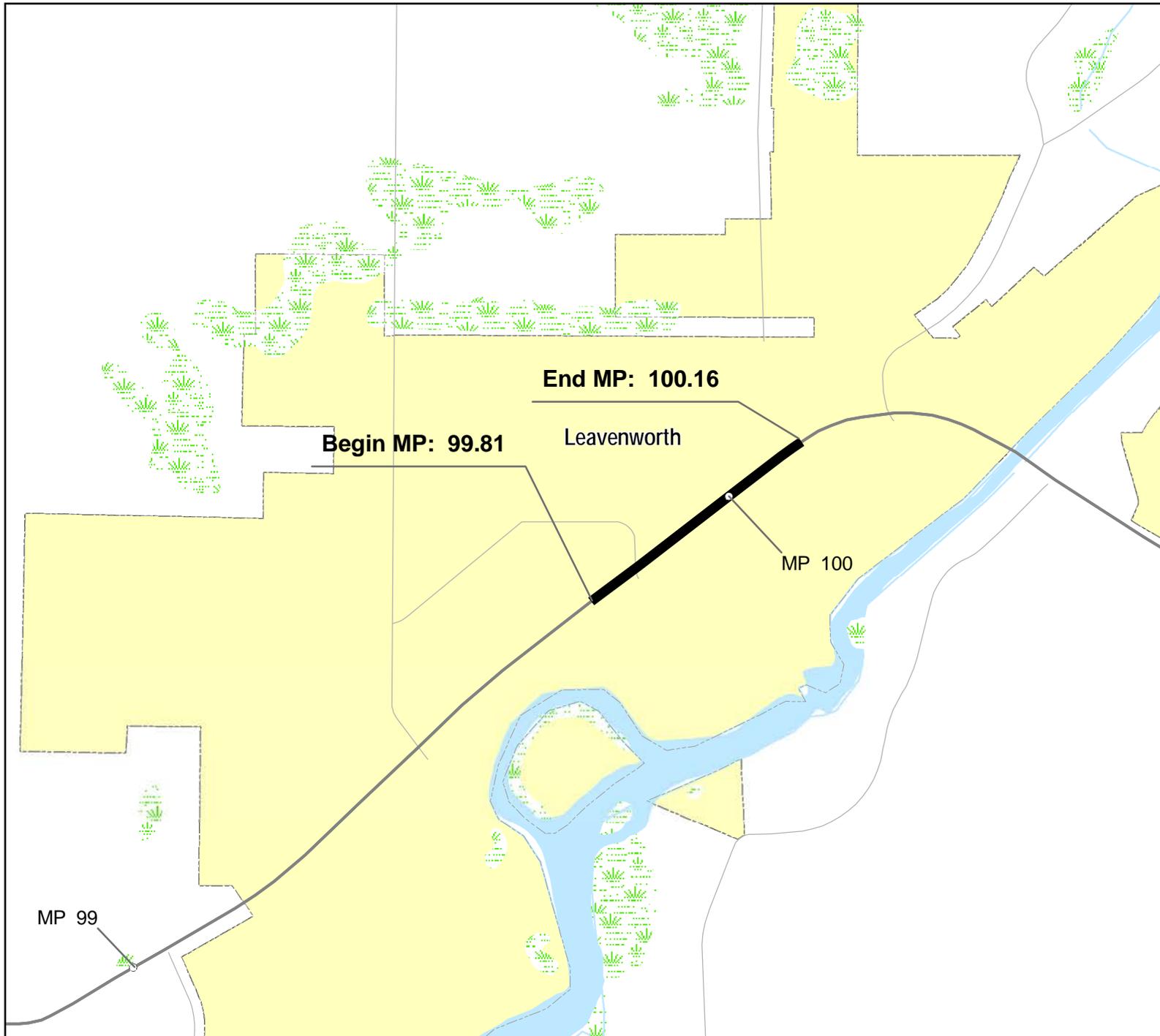
#### **Major Economic Issues:**

This route provides the alternate access across Washington's east-west mountain passes during closures of I-90. It is also a major route for tourism and recreation. The city of Leavenworth is a major tourist attraction and surrounded by recreational opportunities.

# HSP Congested Corridor Analysis

## Characteristics

- Milepost Marker
- █ 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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### **ASSETS**

#### **Pavement:**

There is 1.02 lane mile of Hot Mix Asphalt on this segment of US 2.

#### **Signal:**

There is one signalized intersection in Leavenworth.

#### **Structures:**

There are no structures on this corridor.

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

#### **Features Crossed:**

There are no features crossed.

#### **ITS Facilities:**

There are no intelligent Transportation systems on this corridor.

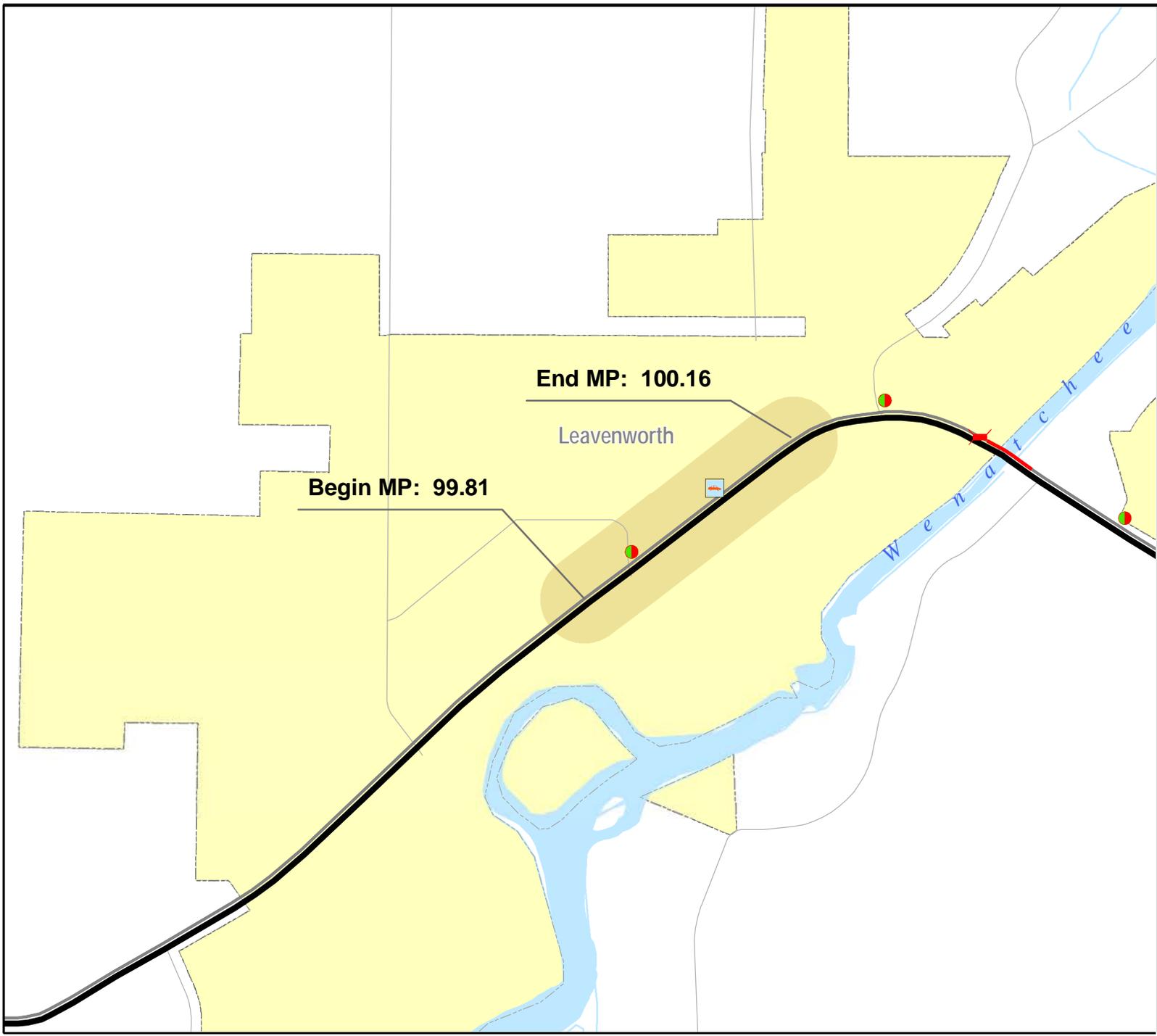
#### **Railroad Crossings:**

There are no at-grade rail crossings within this route segment.

#### **Asset Other:**

**NONE IDENTIFIED.**

# HSP Congested Corridor Analysis Assets



- Corridor Location
- Assets**
  - Signalized Intersection
  - At Grade Railroad Crossings
  - Bridge
  - Weigh Stations
  - Rest Area Sites
  - Ferry Terminal
  - Park and Ride
- Corridor Pavement Type**
  - HMA
  - BST
  - PCCP
- Other Features**
  - U.S. Interstate
  - U.S. Highway
  - State Route
  - Local Roads
  - Ferry Route
  - Railroad
  - Military Reservation
  - Tribal Lands
  - City Limits
  - Urban Area
  - Airports
  - County Line

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## US 2 LEAVENWORTH VICINITY

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### *USAGE*

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

This corridor serves as one of the year round crossings of the Cascades. This section is on the east end of Stevens Pass and serves traffic crossing the entire pass as well as the major tourist destination of Leavenworth.

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

Eastern end of mountain pass, normal winter snow and ice issues are present.

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

Ranges from 11,000 to 12,000.

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

This section of US 2 sees extreme seasonal changes in traffic as well as high volumes of weekend travel.

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

Minimal variation in section.

#### **Freight:**

**Freight Classification:** T3

**Yearly Tonnage:** 3.5M

**Truck Percentage of Annual Average Daily Traffic:** 6%

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

There are no additional comments.

**Average Annual Societal Cost of All Collisions:** Approximately \$0.11M

#### **Collisions:**

**Severe No of Collisions:** 3

**Less Severe No of Collisions:** 8

**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

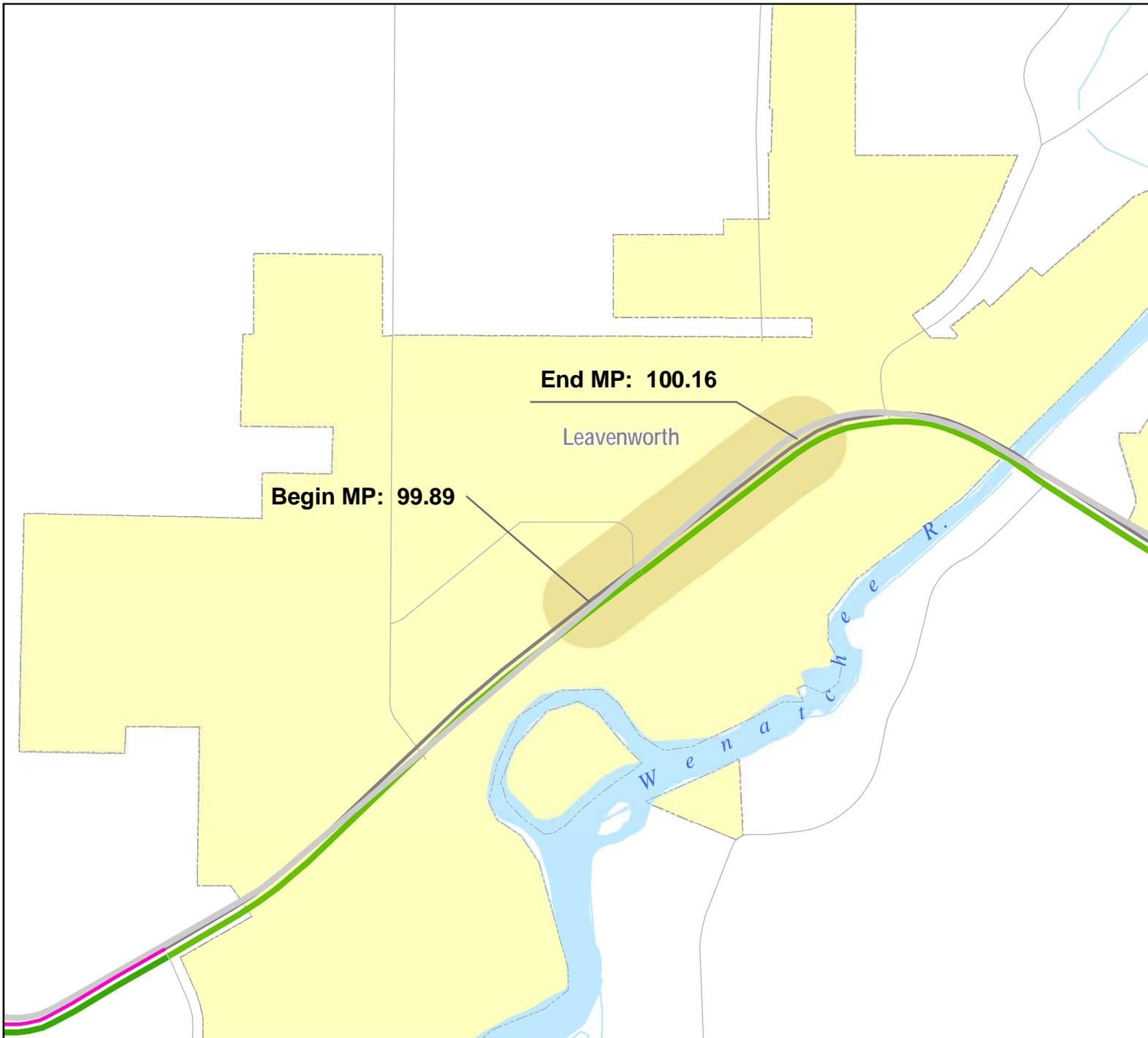
Military Reservation

City Limits

Urban Area

County Line

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## US 2 LEAVENWORTH VICINITY

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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:**

There are none identified. (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:**

There are none identified.

**Safety Management Strategies:**

There are none identified.

**Environmental Condition and Needs:**

There are none identified.

**Environmental Management Strategies:**

There are none identified.

**Restrictions:**

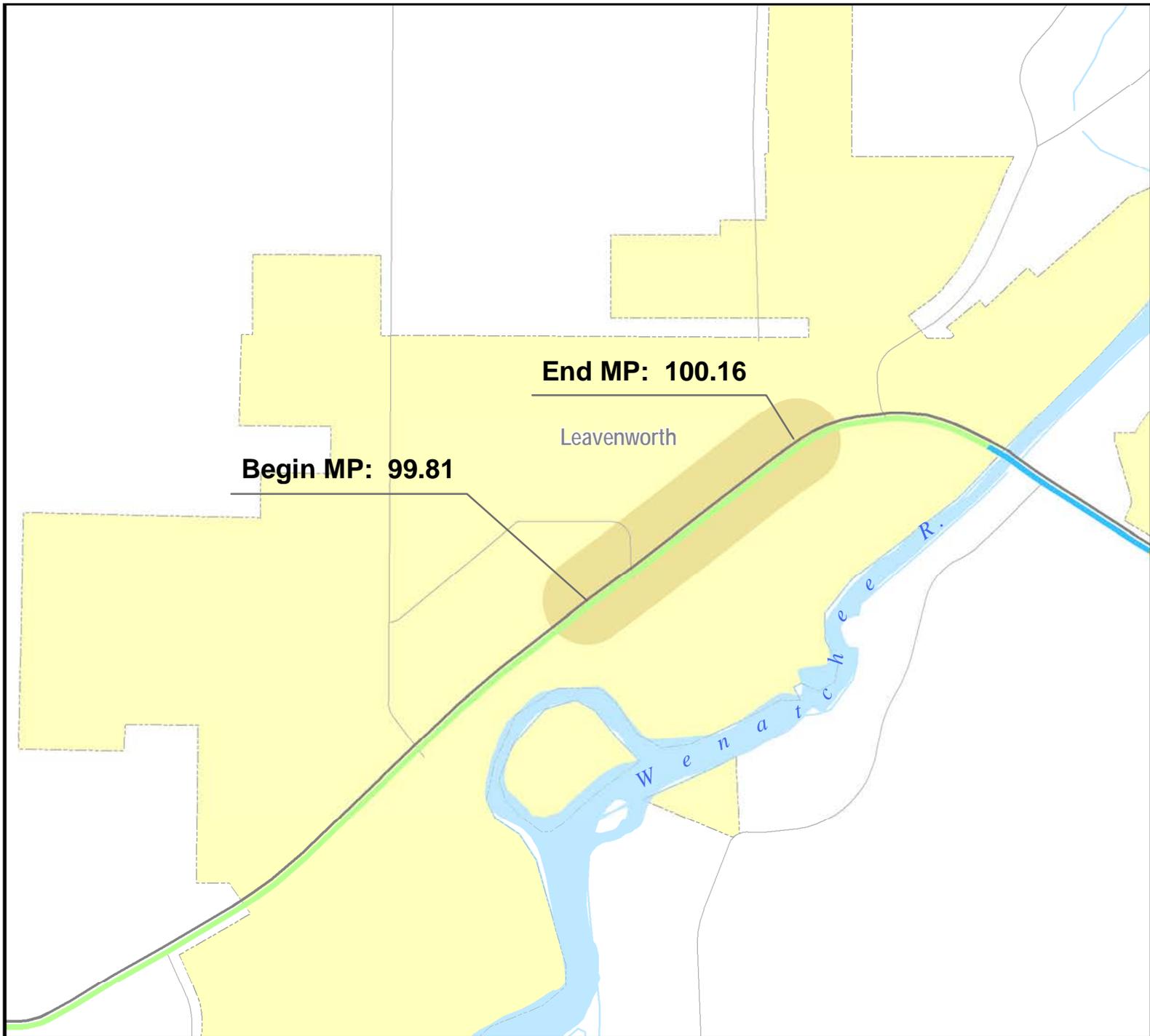
There are none identified.

**50-Year Configuration:**

None Identified.

# HSP Congested Corridor Analysis Needs

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

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### ***TIERED PROPOSED SOLUTIONS***

#### **Minimum Fix**

**Description:**

Signal Timing with cameras

**Delay Reduction:** None identified.

**Collision Reduction:** None identified.

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

**Total Estimate Cost:** \$0.2M

**Cost Estimate Explanation:**

Based on new controllers and cameras.

**Minimum Fix Benefits:**

Better traffic flow management.

#### **Moderate Fix**

**Description:**

Parking alternative and pedestrian overcrossing.

**Delay Reduction:** None identified.

**Collisions Reduction:** None identified.

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

**Total Estimate Cost:** \$5.0 M

**Cost Estimate Explanation:**

Preliminary scoping.

**Moderate Fix Benefits:**

Increased safety for pedestrians and improved traffic flow.

#### **Maximum Fix**

**Description:**

Construct bypass.

**Delays Reduction:** None identified.

**Collisions Reduction:** None identified.

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

**Total Estimate Cost:** \$25 M

**Cost Estimate Explanation:**

Mobility Project Prioritization Process benefit cost scoping estimate.

**Maximum Fix Benefits:**

Reroute through traffic away from congested business center.

## US 2 LEAVENWORTH VICINITY

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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>
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None identified.

### **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

## Other Features

 U.S. Interstate

 U.S. Highway

 State Route

 Milepost Marker

 Local Roads

 Railroad

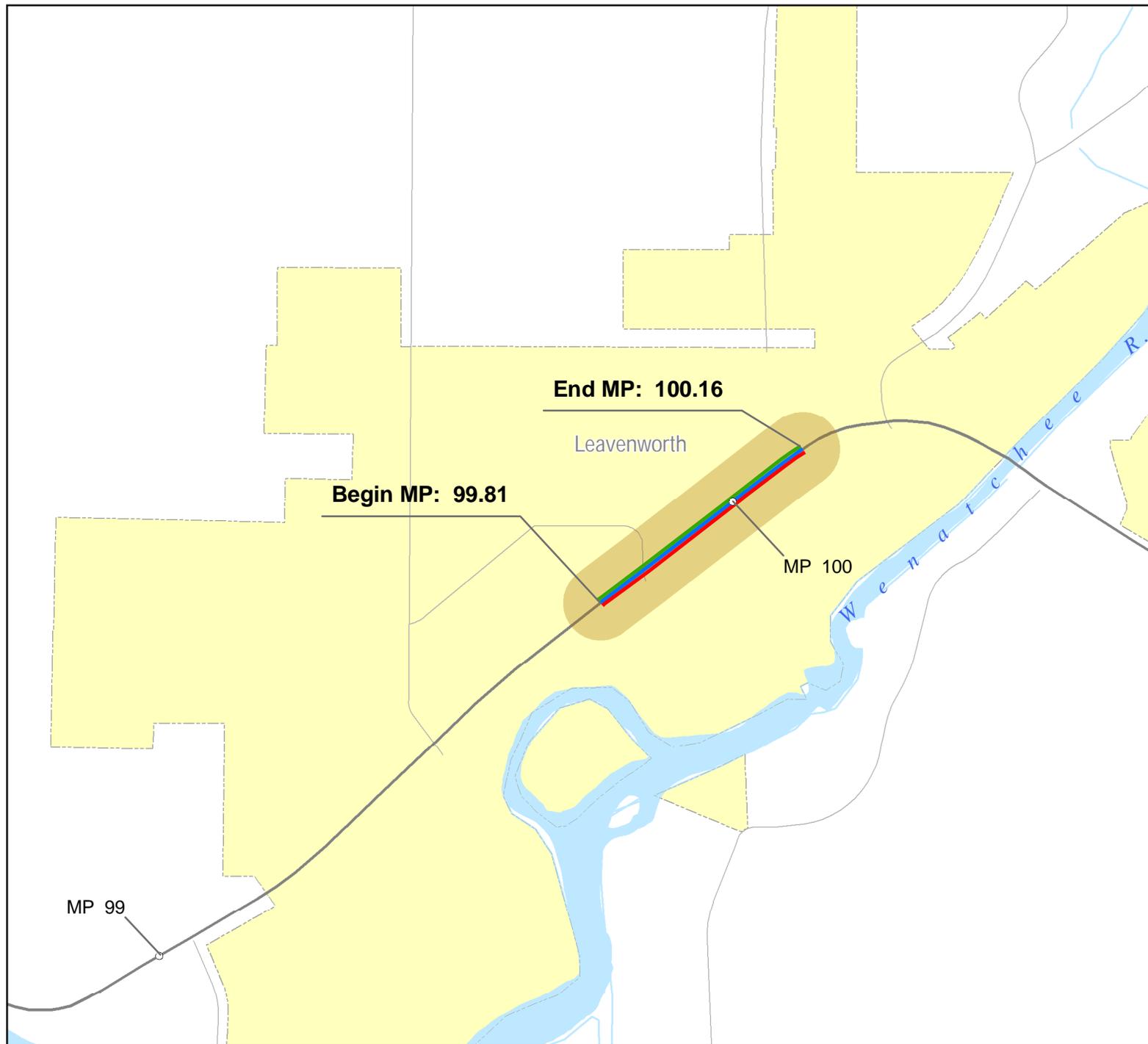
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