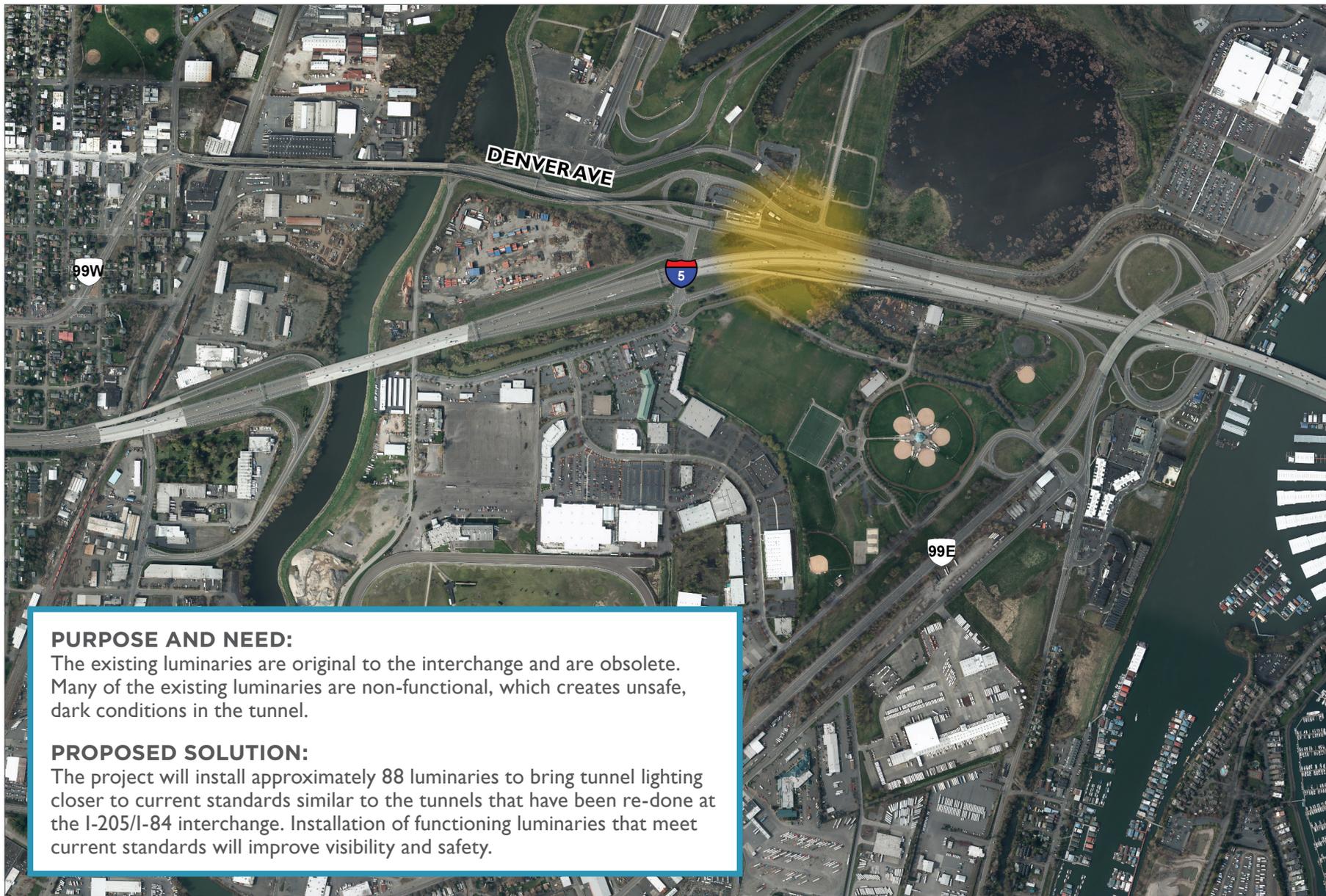


I-5: DENVER AVENUE NB TUNNEL ILLUMINATION

MULTNOMAH COUNTY



PURPOSE AND NEED:

The existing luminaries are original to the interchange and are obsolete. Many of the existing luminaries are non-functional, which creates unsafe, dark conditions in the tunnel.

PROPOSED SOLUTION:

The project will install approximately 88 luminaries to bring tunnel lighting closer to current standards similar to the tunnels that have been re-done at the I-205/I-84 interchange. Installation of functioning luminaries that meet current standards will improve visibility and safety.

ESTIMATED COST: \$321,000

I-84: FARLEY SLIDE

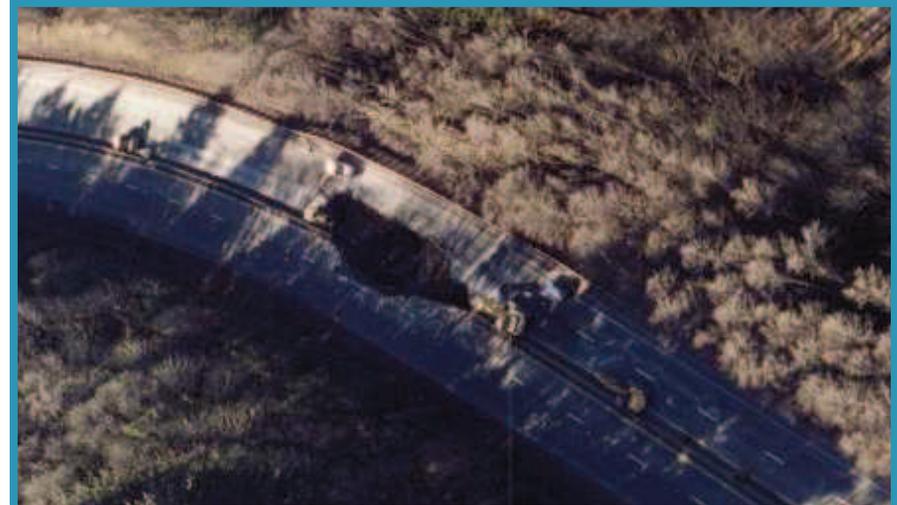
HOOD RIVER COUNTY

PURPOSE AND NEED:

The Farley Landslide is located on Interstate 84 (I-84) in the Columbia River Gorge approximately 47 miles east of Portland, Oregon. The landslide extends approximately 250 feet south of the highway surface and is impacting approximately 300 feet of roadway. Surface cracking and settling of the freeway indicates that this landslide is actively moving. It is anticipated that an earthquake or severe weather event could trigger significant movement of the existing landslide excessive deformation of the I-84 roadway, rendering it impassable.

PROPOSED SOLUTION:

Design a cost effective solution to stabilize the slide and prevent further damage I-84. In 1996, the Pacific Northwest experienced severe weather, which caused a variety of damage to I-84. The damage included a 100 foot long by 40 foot wide sink hole in the center median of the highway at the location of the Farley Landslide.



DAMAGE TO I-84 FROM FARLEY SLIDE (1996)
Courtesy of ODOT Photo and Video Services



ESTIMATED COST: \$500,000

OR-8 OPERATIONAL IMPROVEMENTS

WASHINGTON COUNTY



PURPOSE AND NEED:

Signals are old, difficult and costly to maintain, and do not meet current safety requirements.

PROPOSED SOLUTION:

Upgrade signals to meet current standards to improve safety of the traveling public. Construct ADA improvements, as necessary.

ESTIMATED COST: \$964,500



OR-99E RAILROAD TUNNEL ILLUMINATION

CLACKAMAS COUNTY

PURPOSE AND NEED:

The OR-99E Railroad Tunnel has obsolete fixtures and poor electrical conditions. Many of the existing luminaries are non-functional, which creates unsafe, dark conditions in the tunnel.

PROPOSED SOLUTION:

The project will install approximately 50 luminaries to reduce maintenance costs and increase electrical safety for maintenance personnel. The project also will increase visibility in the tunnel, improving public safety.



ESTIMATED COST: \$1,940,000

OR-212 AT N FORK DEEP CREEK CULVERT

CLACKAMAS COUNTY



PURPOSE AND NEED:

Existing culverts are in poor shape and there have been several occasions when the water has flooded the highway causing it to close.

PROPOSED SOLUTION:

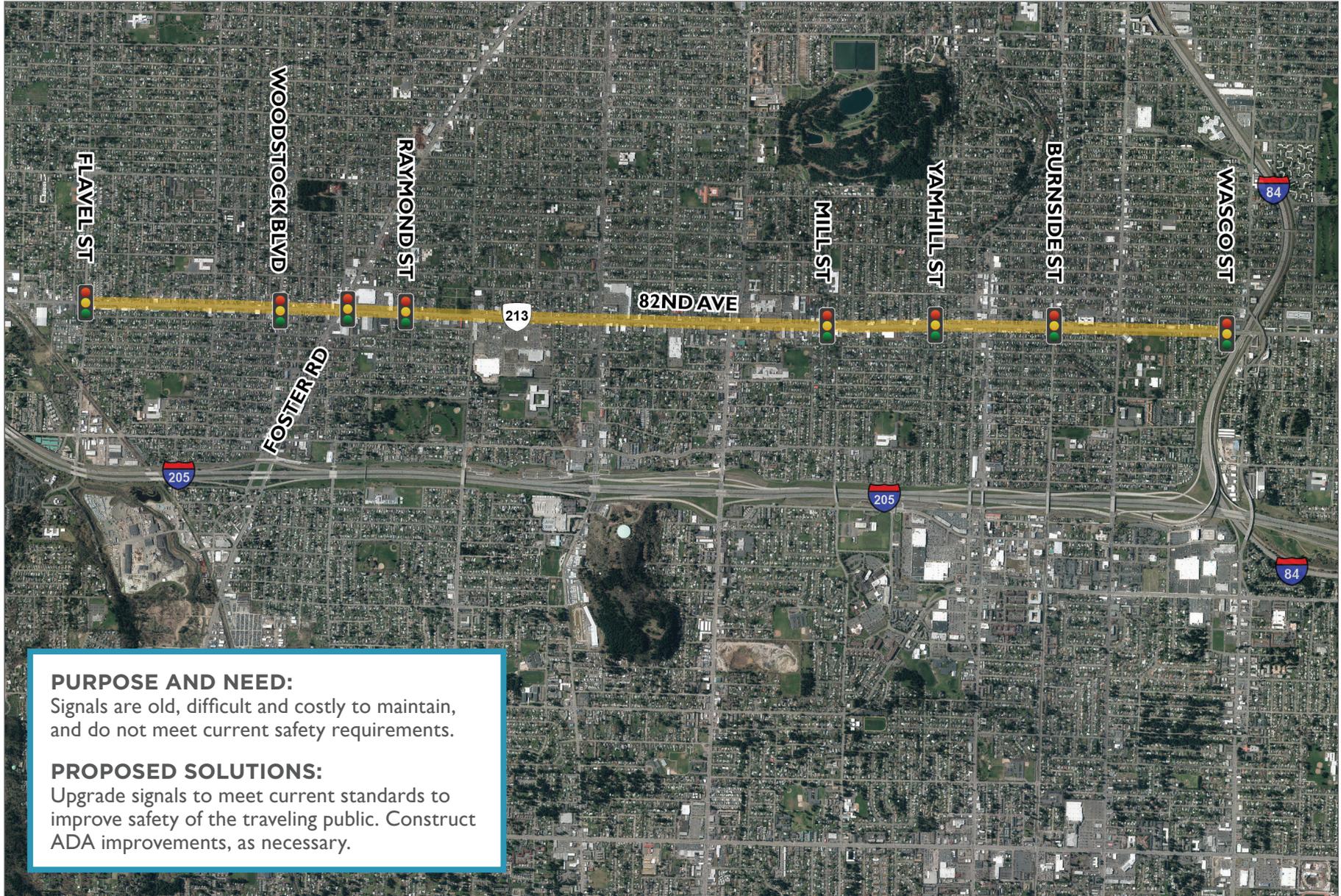
Replace existing culvert.

ESTIMATED COST: \$1,000,000



OR-213 OPERATIONAL IMPROVEMENTS

MULTNOMAH COUNTY



PURPOSE AND NEED:
 Signals are old, difficult and costly to maintain, and do not meet current safety requirements.

PROPOSED SOLUTIONS:
 Upgrade signals to meet current standards to improve safety of the traveling public. Construct ADA improvements, as necessary.



ESTIMATED COST: \$5,676,000

OR-217: SW ALLEN/SW DENNEY INTERCHANGE ILLUMINATION

WASHINGTON COUNTY

PURPOSE AND NEED:

The electrical system is old and showing signs of corrosion, creating potential unsafe conditions for maintenance personnel. Corrosion on poles could hasten pole failure, which would be a danger to the public.

PROPOSED SOLUTION:

Install approximately 44 poles and fixtures to bring existing lighting system up to current standards, which will improve the visibility and safety for the public and improve the safety for maintenance personnel working on the electrical system.



ESTIMATED COST: \$205,000



REGION-WIDE CULVERTS

VARIOUS COUNTIES



Culverts are an integral part of the highway system and like other infrastructure they are subject to deterioration. ODOT is responsible for maintaining these drainage systems to assure safety of the public and protect highway assets.

The project will replace four culverts. Two culverts will be replaced at US-26 and Bear Creek and at OR-281 at Trout Creek.

CULVERT REPLACEMENT

Photo courtesy of ODOT Photo and Video Services



ESTIMATED COST: \$1,282,000

REGIONAL INTELLIGENT TRANSPORTATION SYSTEMS: OR-212/OR-224

CLACKAMAS COUNTY



PURPOSE AND NEED:

The project will reduce crash rates and improve mobility by providing users realtime information on anticipated travel times and alternative routes.

PROPOSED SOLUTION:

Design Intelligent Transportation System (ITS) components that include Closed Caption Television and Bluetooth technologies on OR-224 from mile post 0.0 to 3.73 and on OR-212 from mile post 0.0 to 8.87.



ESTIMATED COST: \$150,000



REGIONAL INTELLIGENT TRANSPORTATION SYSTEMS: US-26

VARIOUS COUNTIES



PURPOSE AND NEED:

The project will reduce the negative safety and mobility impacts of secondary collisions and unreliable traffic mobility due to traffic incidents without adding additional travel lanes.

PROPOSED SOLUTION:

Design Intelligent Transportation System (ITS) components that include variable Message and Speed signs on US-26 between the Vista Ridge Tunnel and OR-217

ESTIMATED COST: \$650,000

REGION-WIDE ROCKFALLS

VARIOUS COUNTIES

PURPOSE AND NEED:

Several rock slopes are very close to highway alignments. As rock falls from the slopes, it typically lands in the highway and becomes a hazard to motorists. Several crashes and significant damage to vehicles have occurred due to rock fall.

PROPOSED SOLUTION:

Rockfalls may be addressed by moving existing rock slope away from the roadway to create a more stable slope to reduce rock fall or by creating a wider catchment area to retain rocks that may fall from the slope.

ESTIMATED COST: \$3,607,000



OR-99E (MP 12.62 - MP 14.06)



TRIANGLE LAKE ROCKFALL

Photo courtesy of ODOT Photo & Video Services



OR-224 (MP 31.89 - MP 36.47)