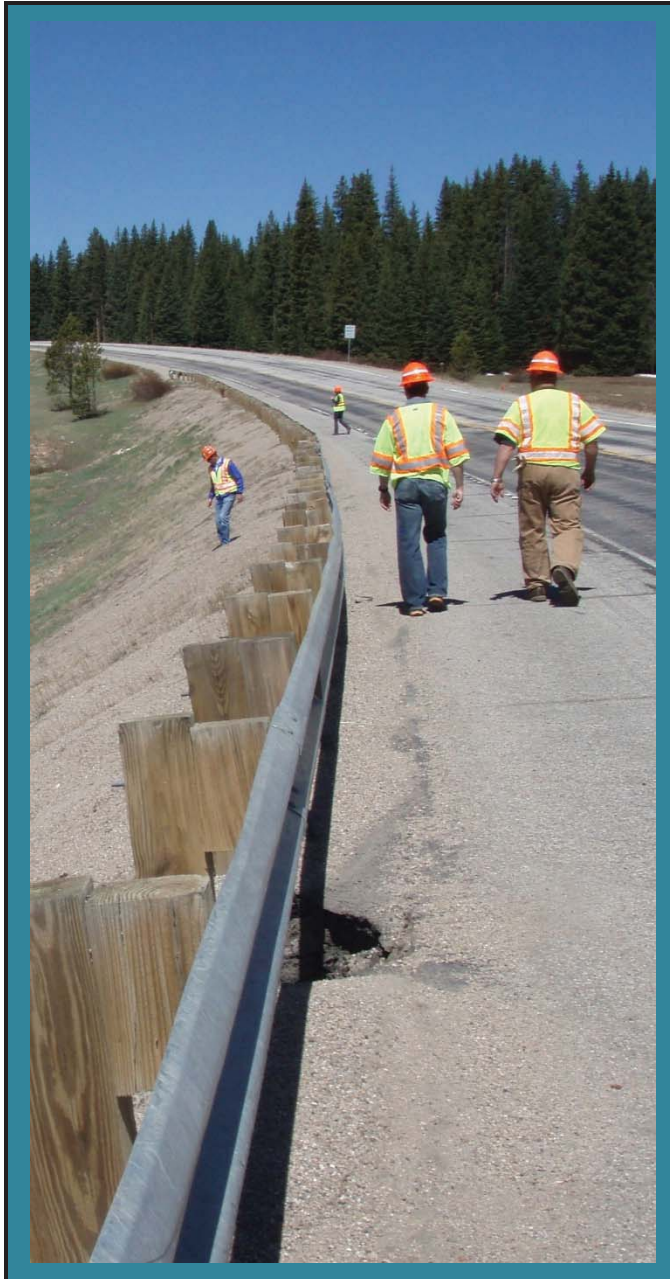
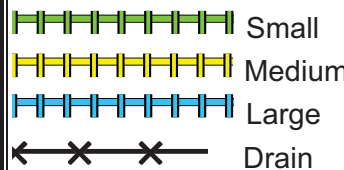




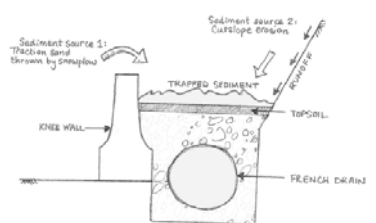











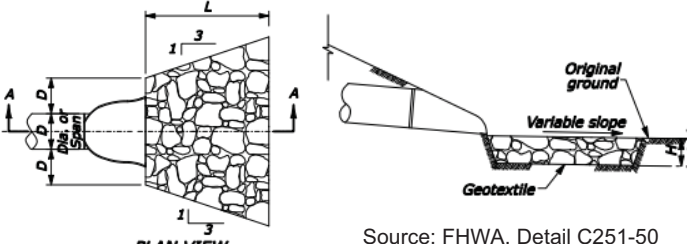

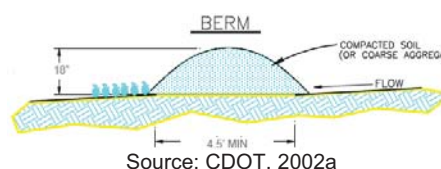
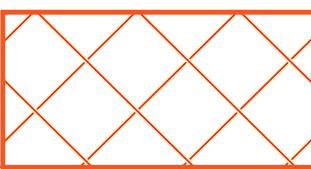



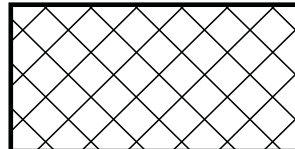







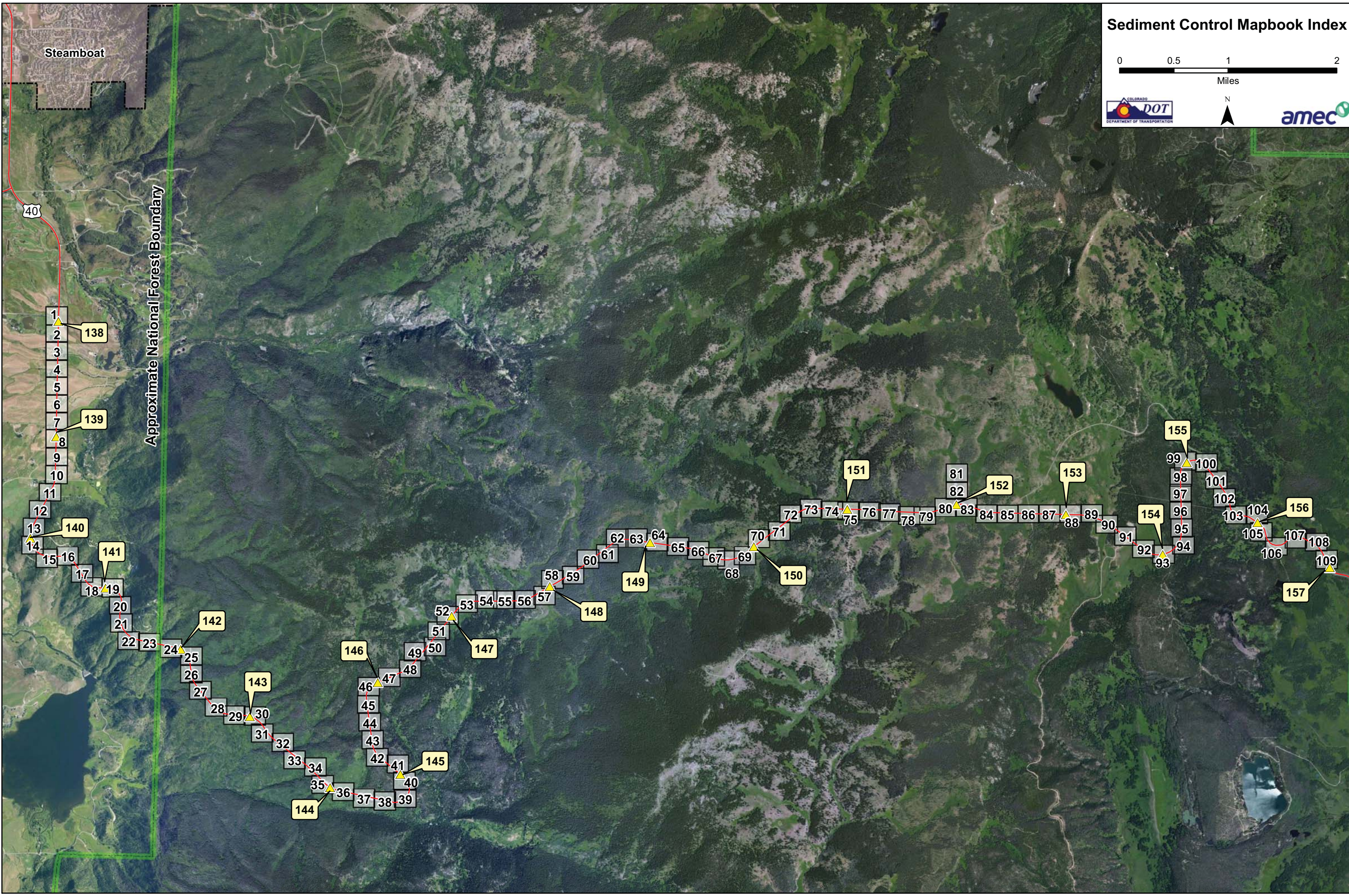
# Rabbit Ears Pass Mapbook

## Sediment Control Scoping Study July 2013



<p><b>Ditch</b></p> 		<p>A structural control used to capture, control, and direct runoff to acceptable drainage points. Drains are existing channels that may require re-grading or periodic armoring. Riprap or erosion logs should be placed periodically to facilitate sediment trapping.</p>	<p><b>Loading Dock Trap</b></p> 	 <p>Source: Shanks, 2006</p>	<p>Relatively large, permanent BMP used to capture high volumes of sediment. Can be cleaned with a loader. Requires a design that considers roadside safety.</p>
<p><b>Kneewall and Underground Drain</b></p> 		<p>Structural BMP consisting of Jersey barrier and a French drain at the base of a cut slope. The barrier helps brace the cut slope while the drain conveys runoff. Will require periodic cleaning.</p>	<p><b>Underground Sand Cans</b></p> 	 <p>Source: TRPA, 2012</p>	<p>Sand cans are subterranean sediment traps that can be placed in areas that lack the space required for a sediment basin. They are relatively cheap to construct, but require regular maintenance in order to function properly.</p>
<p><b>Geo-textile Tubes</b></p> 	 <p>www.tensarcorp.com</p>	<p>Geo-textile tubes provide temporary barriers to sediment transport. They can be filled in place, and subsequently removed with machinery. They potentially provide a reuse of used traction sand.</p>	<p><b>Sediment Basins</b></p> <ul style="list-style-type: none"> <li> Small</li> <li> Medium</li> <li> Large</li> </ul>	 <p>Source: CDOT, 2004</p>	<p>Excavated treatment BMPs that remove sediment from runoff by ponding water, settling out suspended material. Requires sufficient road shoulder space and is ideally located at road corridor outlet points.</p>
<p><b>Barriers</b></p> 		<p>Type 7 (Jersey) barriers used to either direct flow or shield vehicles from roadside hazards and structural sediment control features.</p>	<p><b>Outlet Rundown</b></p> 	 <p>Source: FHWA, Detail C251-50</p>	<p>Drainage rundowns are used to convey runoff down embankments, preventing erosion and head cutting from concentrated flows.</p>
<p><b>Vegetated Berms</b></p> 	 <p>Source: CDOT, 2002a</p>	<p>Constructed ridges of soil used to block the migration of traction material away from the site. These offer one possible reuse of reclaimed traction sand, but will need fertilizers to facilitate vegetation growth.</p>	<p><b>Slope Revegetation</b></p> 	 <p>Source: Shanks, 2006</p>	<p>Revegetation of slopes helps to stabilize the slope, reducing the subsequent erosion and transport of material away from the site. Most locations throughout the pass will require additional amendments.</p>
<p><b>Pan Drain</b></p> 		<p>This structural BMP is used to capture runoff and convey it to appropriate treatment points before leaving the site. They are effective in areas that lack significant roadside space.</p>	<p><b>Snow Storage Area</b></p> 	 <p>Source: Shanks, 2006</p>	<p>Snow storage areas to be graded to a drain point where the runoff will be treated prior to leaving the site. These are areas recommended for storing snow that include BMPs for conveying and treating runoff. When and where possible, snow should be stored in these locations, as indicated in the mapbook.</p>
<p><b>Bench Trap</b></p> 	 <p>Modified from TRPA, 2012</p>	<p>Graded, flat terrace that is revegetated in order to intercept and slow the downslope movement of sediment. Depending on location, maintaining these features over the long term may not be possible without significant effort.</p>	<p>Rabbit Ears Pass Sediment Control Scoping Study <b>Mapbook Reference Sheet</b></p>  		

Sediment Control Mapbook Index



Steamboat

Approximate National Forest Boundary

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1



**Legend**

- Mileposts
- Milepost Segments
- - - 10ft Contours
- - - Access Road
- 40ft Contours
- Pavestone

**Preventative BMPs**

- Clean Water Diversions
- Limit Traction Material
- Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- Snow Storage
- ✕ Drain
- ||| Large
- ||| Medium
- ||| Small

**Ditch Types**

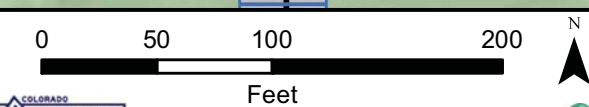
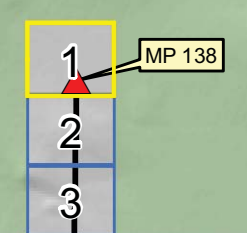
**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- Sand Cans
- Large
- Medium
- Small

**Sediment Basins**

Map Date: 7/2013  
 Data Source: CDOT,  
 Routt County, Bing Imagery

**Index Inset**



1:1,000 Scale





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- Pavestone

**Preventative BMPs**

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- ▨ Revegetation Zone

**Collection BMPs**

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- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- ▨ Snow Storage
- Drain
- Large
- Medium
- Small

**Ditch Types**

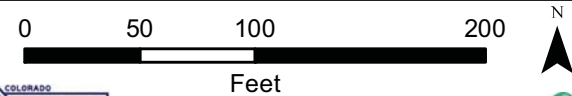
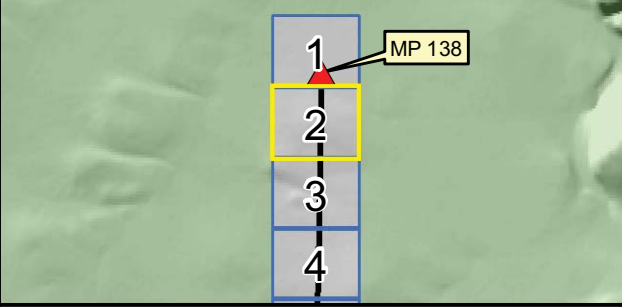
**Treatment BMPs**

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- ▨ Loading Dock Trap
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- Large
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**Sediment Basins**

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- 40ft Contours
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**Preventative BMPs**

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- ▨ Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- ▨ Snow Storage
- Drain
- Large
- Medium
- Small

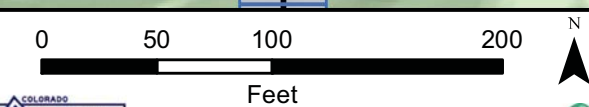
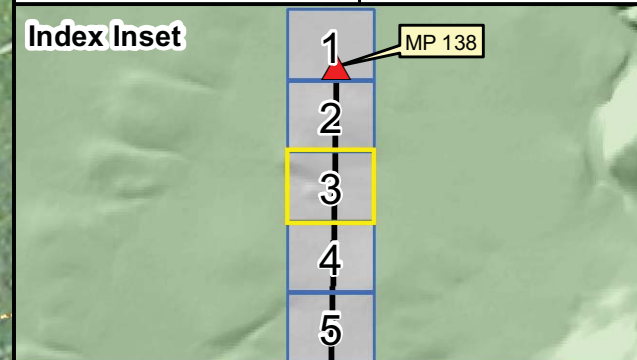
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- Sand Cans
- Large
- Medium
- Small

**Sediment Basins**

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- Access Road
- 40ft Contours
- Pavestone

**Preventative BMPs**

- Clean Water Diversions
- Limit Traction Material
- Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Run-down
- Kneewall & French Drain
- Snow Storage
- Drain
- Large
- Medium
- Small

**Ditch Types**

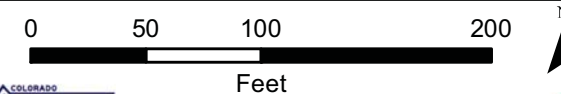
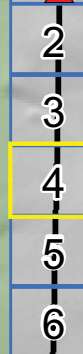
**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- Sand Cans
- Large
- Medium
- Small

**Sediment Basins**

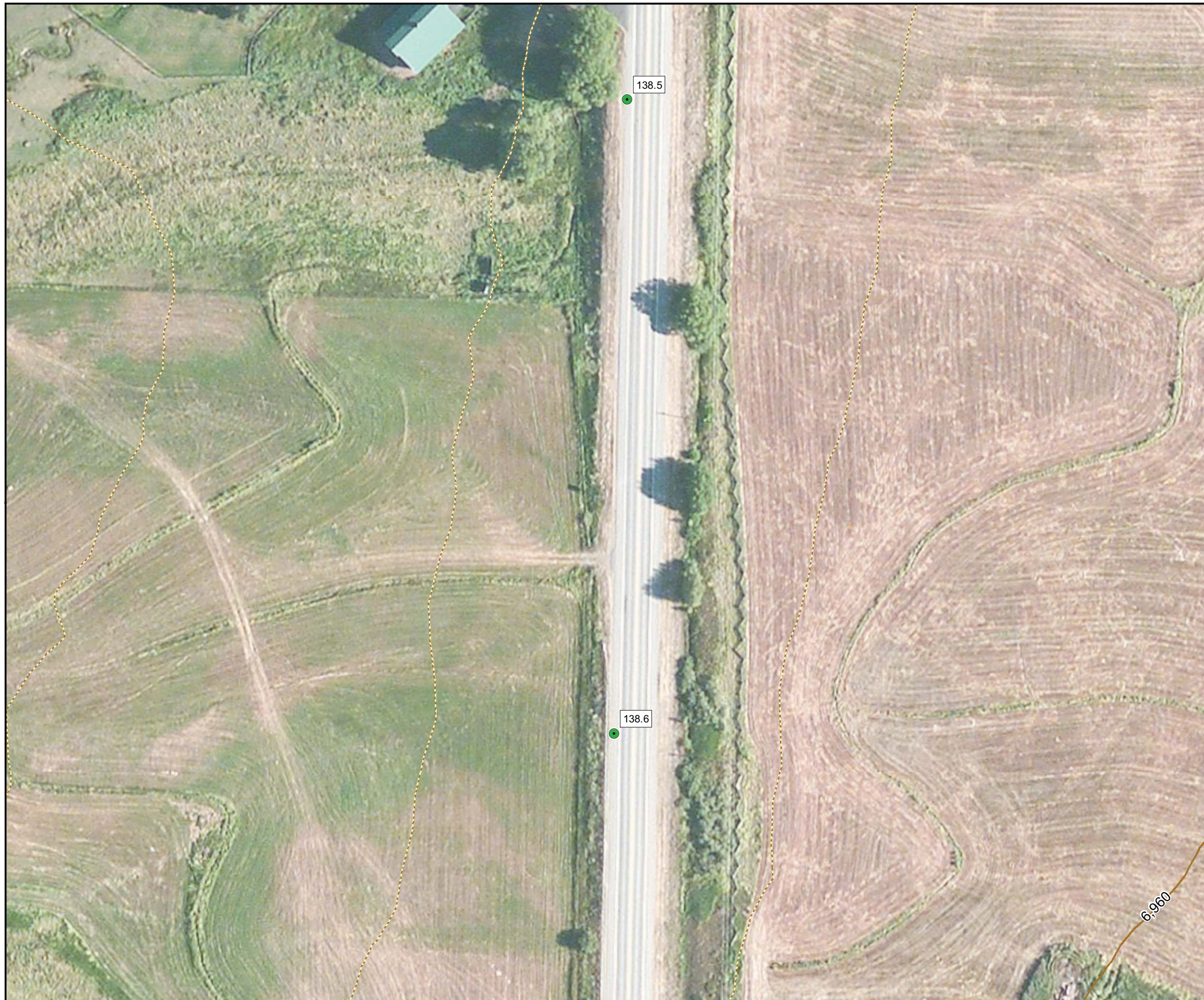
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**Legend**

- Mileposts      ● Milepost Segments
- - - 10ft Contours      - - - Access Road
- 40ft Contours      ■ Pavestone

**Preventative BMPs**

- Clean Water Diversions
- Limit Traction Material
- Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- Snow Storage
- X—X Drain
- ||| Large
- ||| Medium
- ||| Small

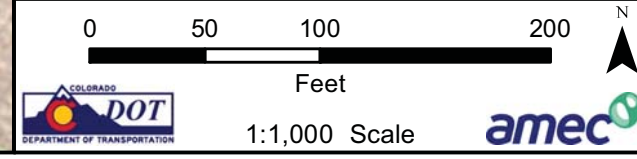
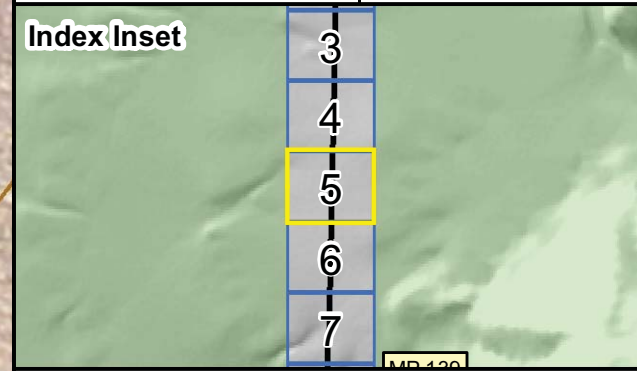
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- Sand Cans
- B Large
- B Medium
- B Small

**Sediment Basins**

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**Legend**

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- Milepost Segments
- 10ft Contours
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- 40ft Contours
- Pavestone

**Preventative BMPs**

- Clean Water Diversions
- Limit Traction Material
- Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- Snow Storage
- ✕ Drain
- Large
- Medium
- Small

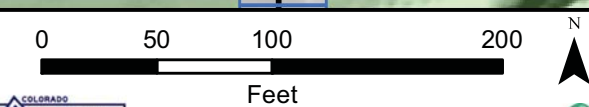
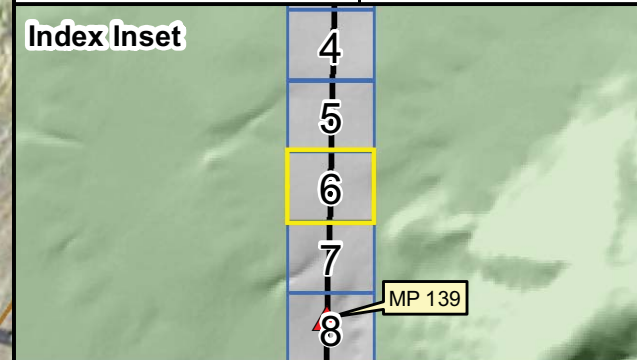
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- Sand Cans
- Large
- Medium
- Small

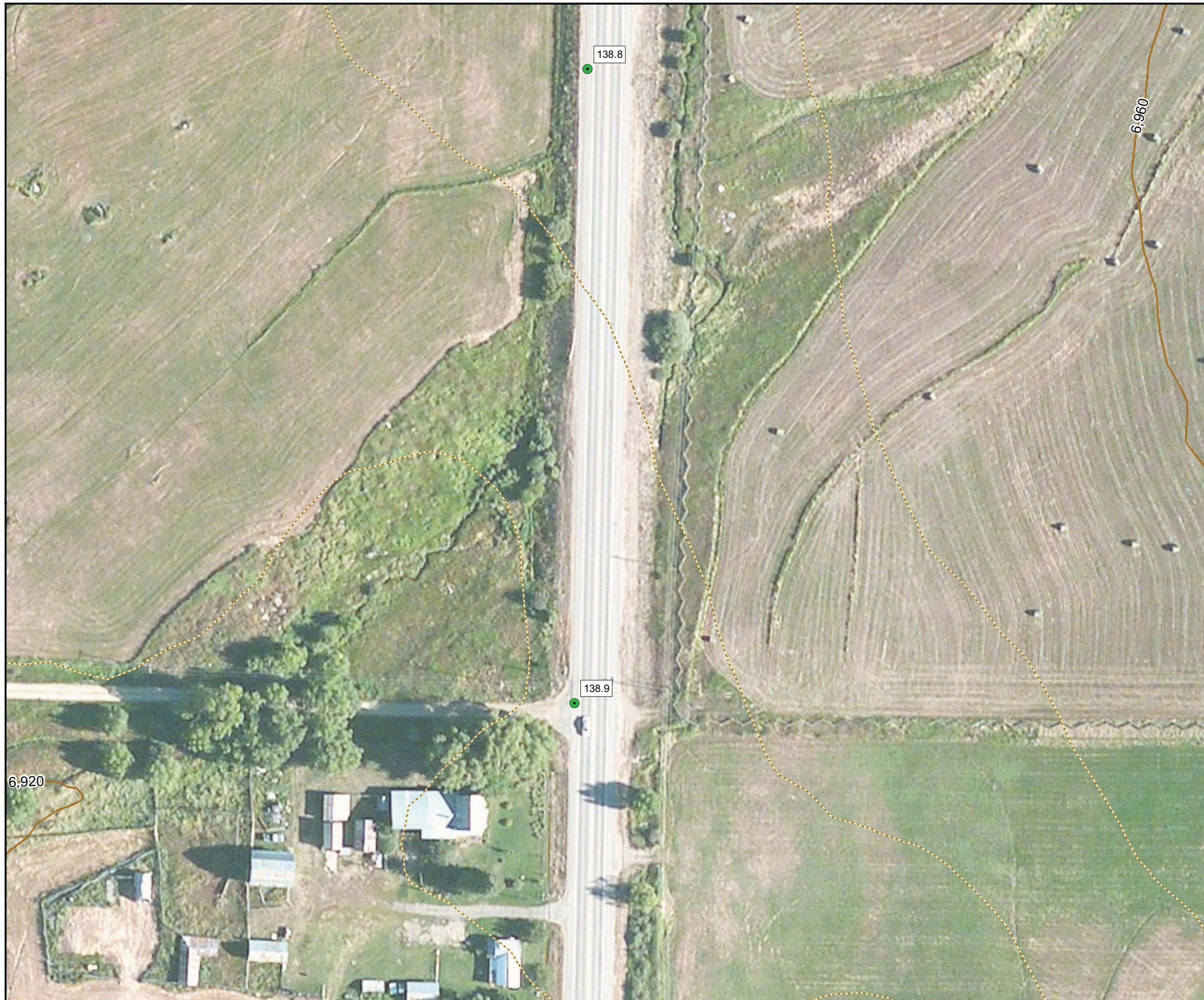
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**Legend**

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- 40ft Contours
- Pavestone

**Preventative BMPs**

- Clean Water Diversions
- Limit Traction Material
- Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- Snow Storage
- ✕ Drain
- Large
- Medium
- Small

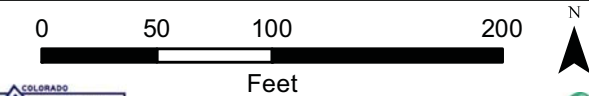
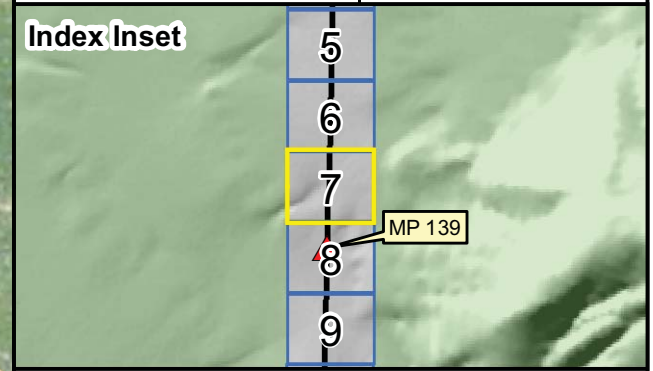
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- Medium
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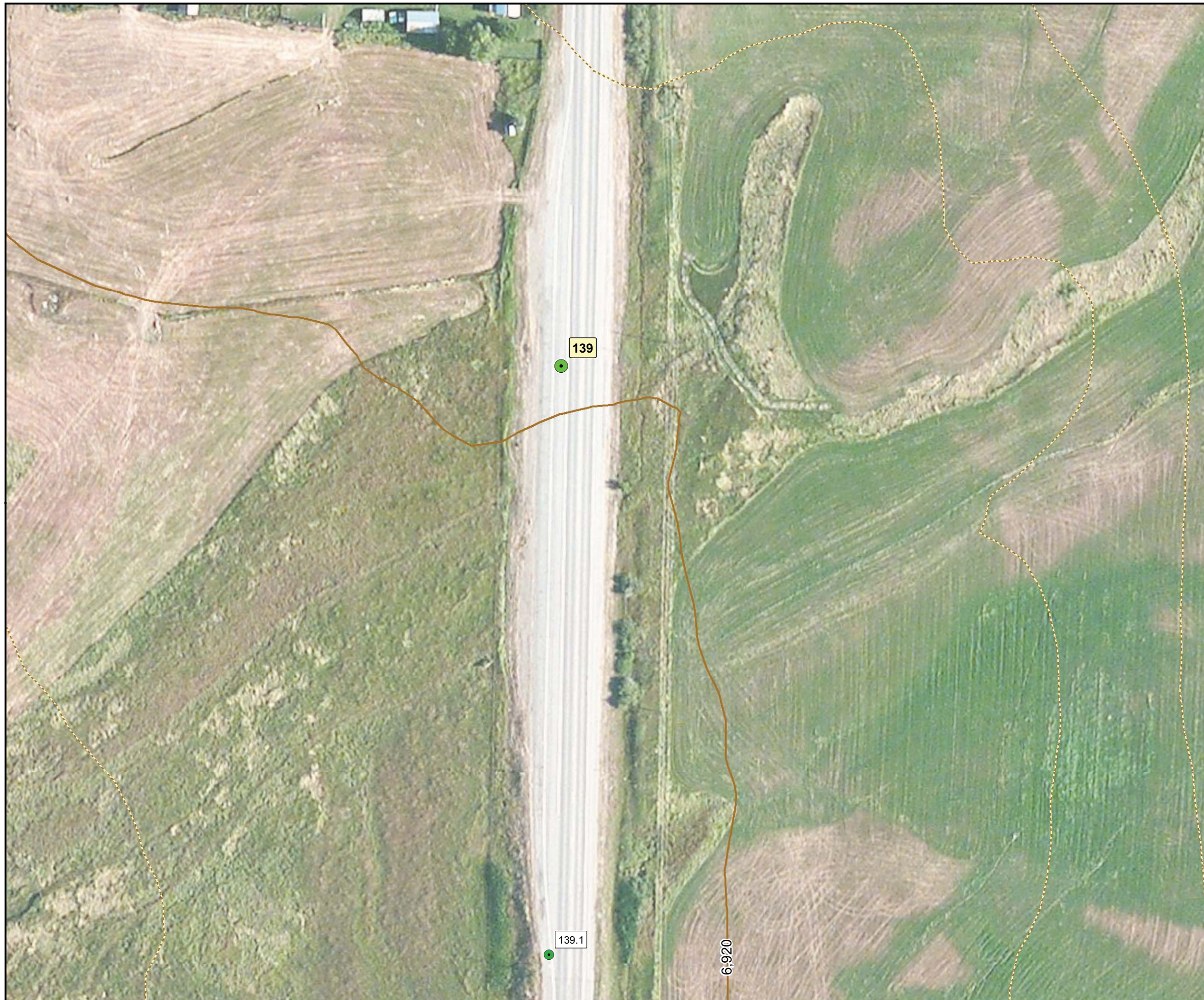
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**Preventative BMPs**

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**Collection BMPs**

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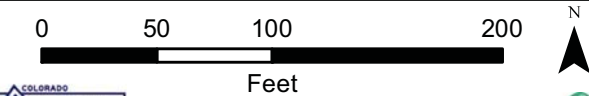
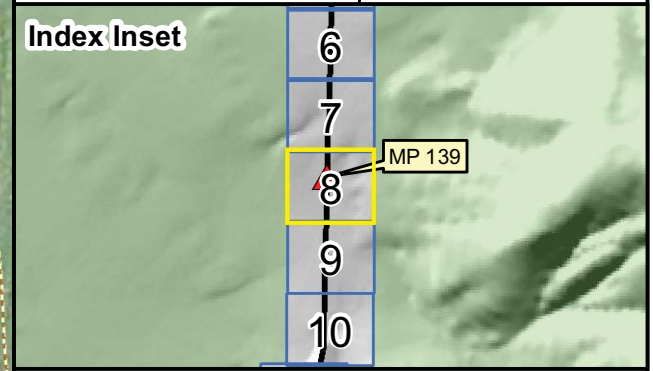
**Ditch Types**

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**Collection BMPs**

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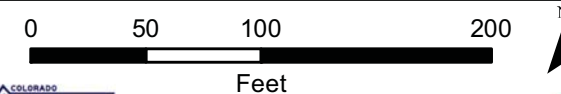
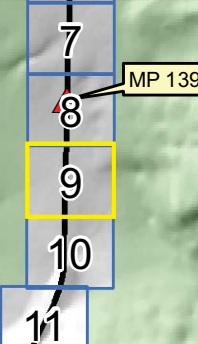
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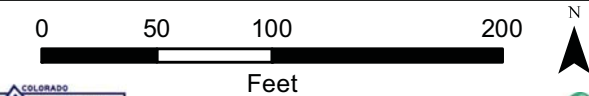
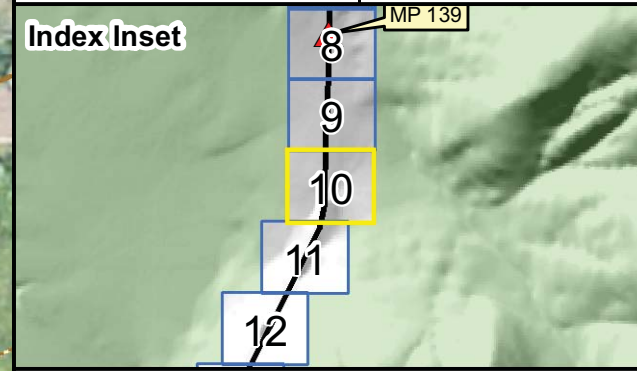
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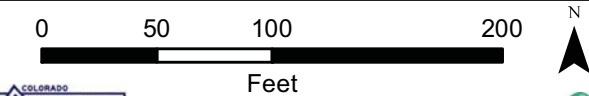
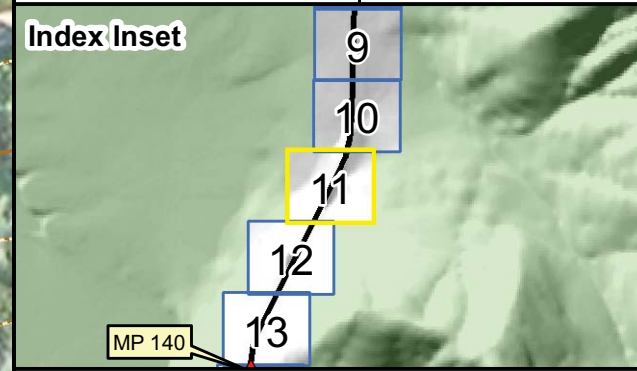
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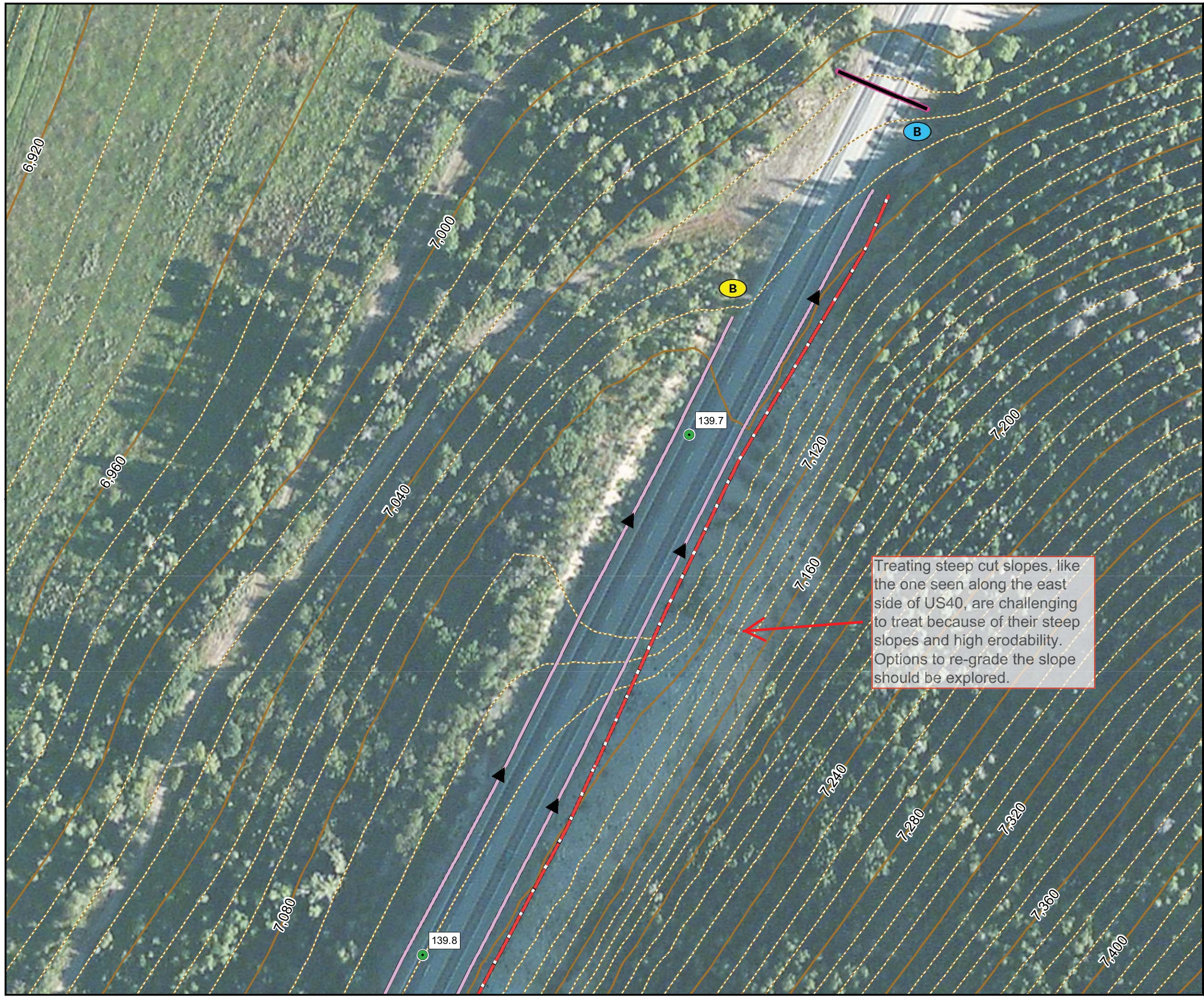
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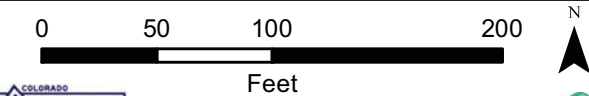
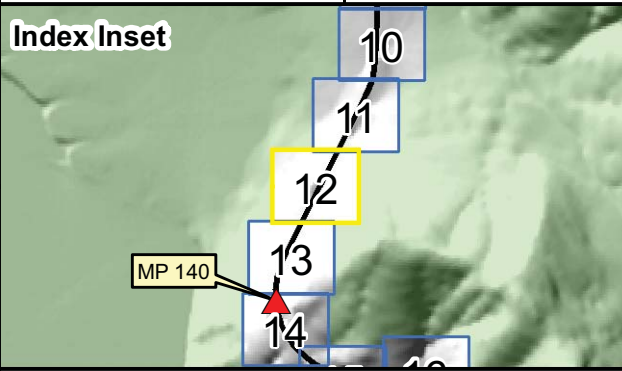
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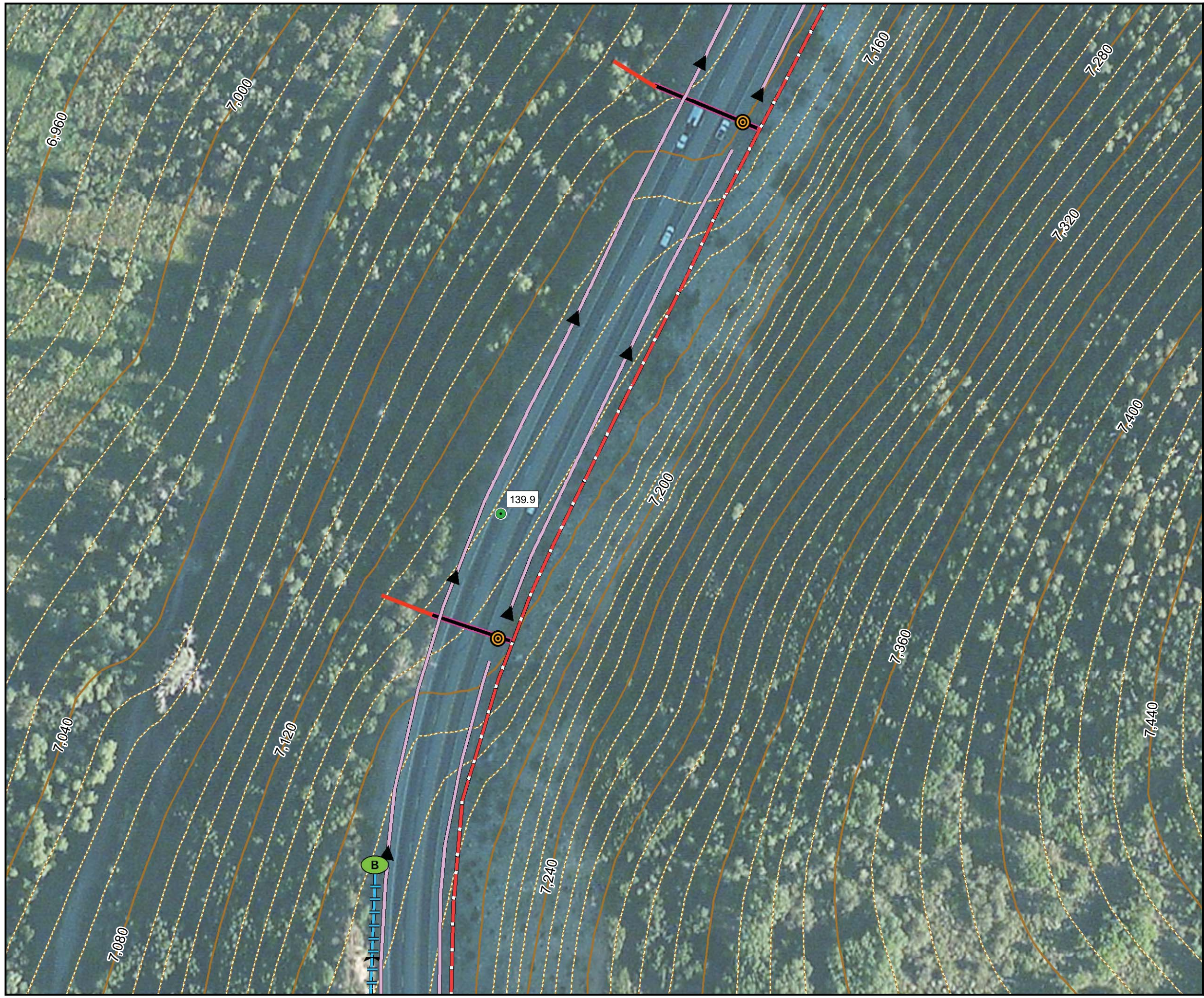
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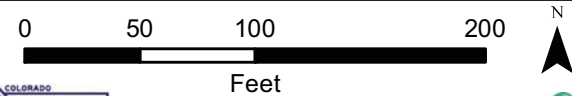
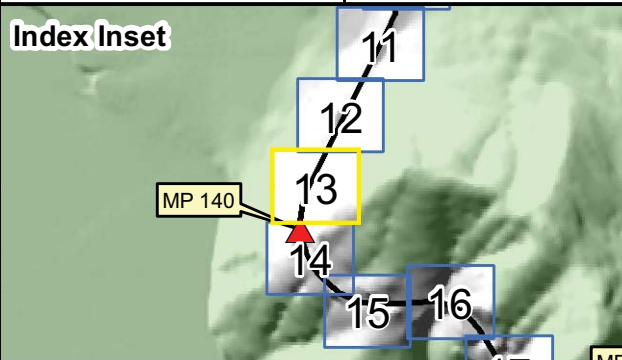
**Ditch Types**

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**Sediment Basins**

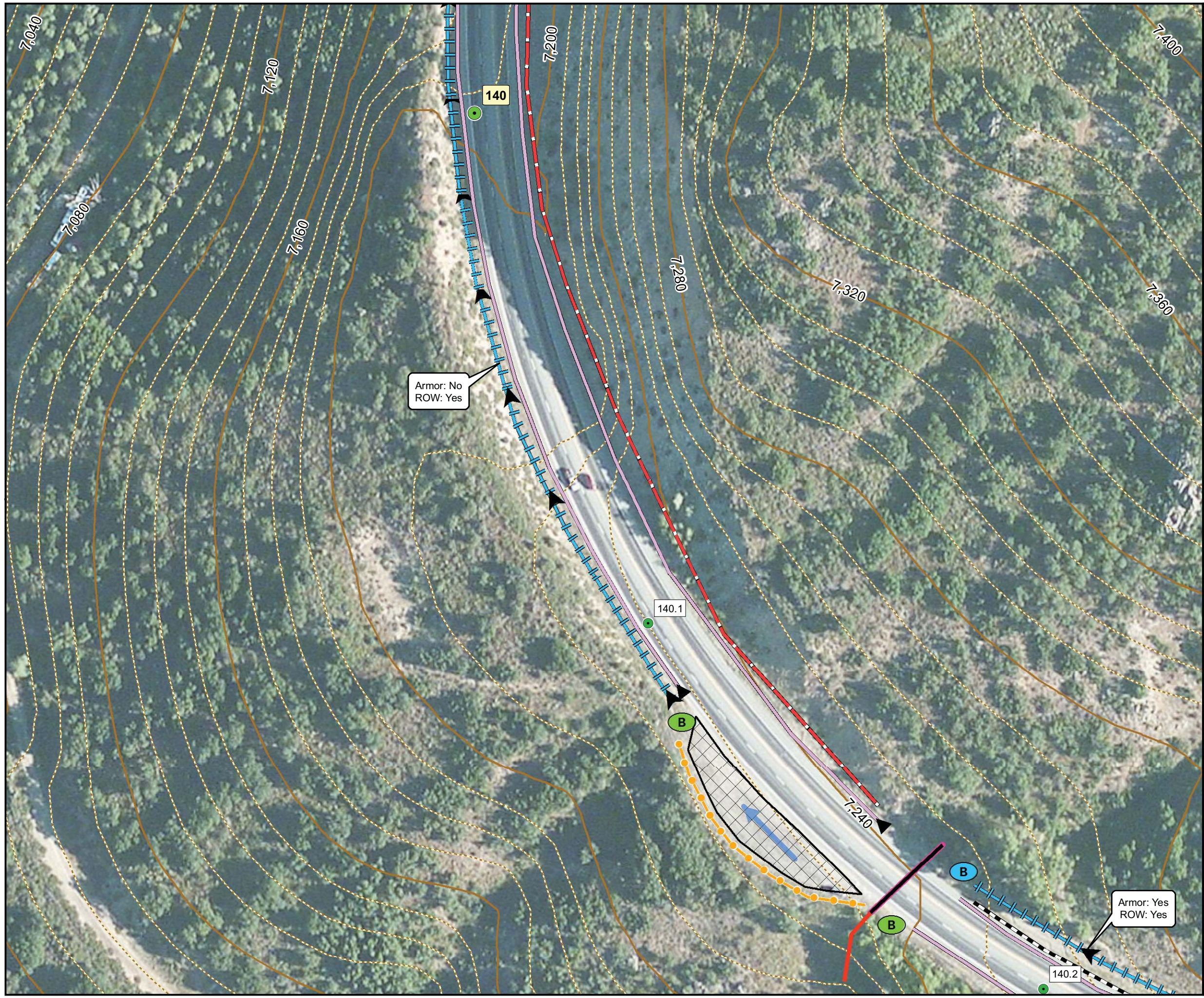
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- - - 10ft Contours
- - - Access Road
- 40ft Contours
- Pavestone

**Preventative BMPs**

- Clean Water Diversions
- Limit Traction Material
- Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- Snow Storage
- ✕ Drain
- Large
- Medium
- Small

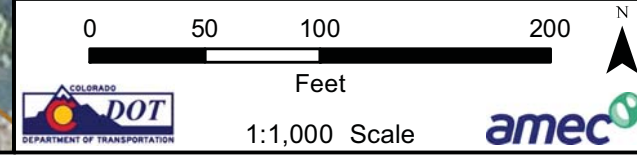
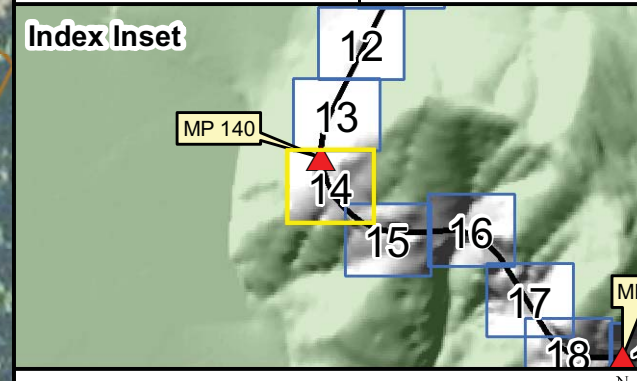
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- Sand Cans
- Large
- Medium
- Small

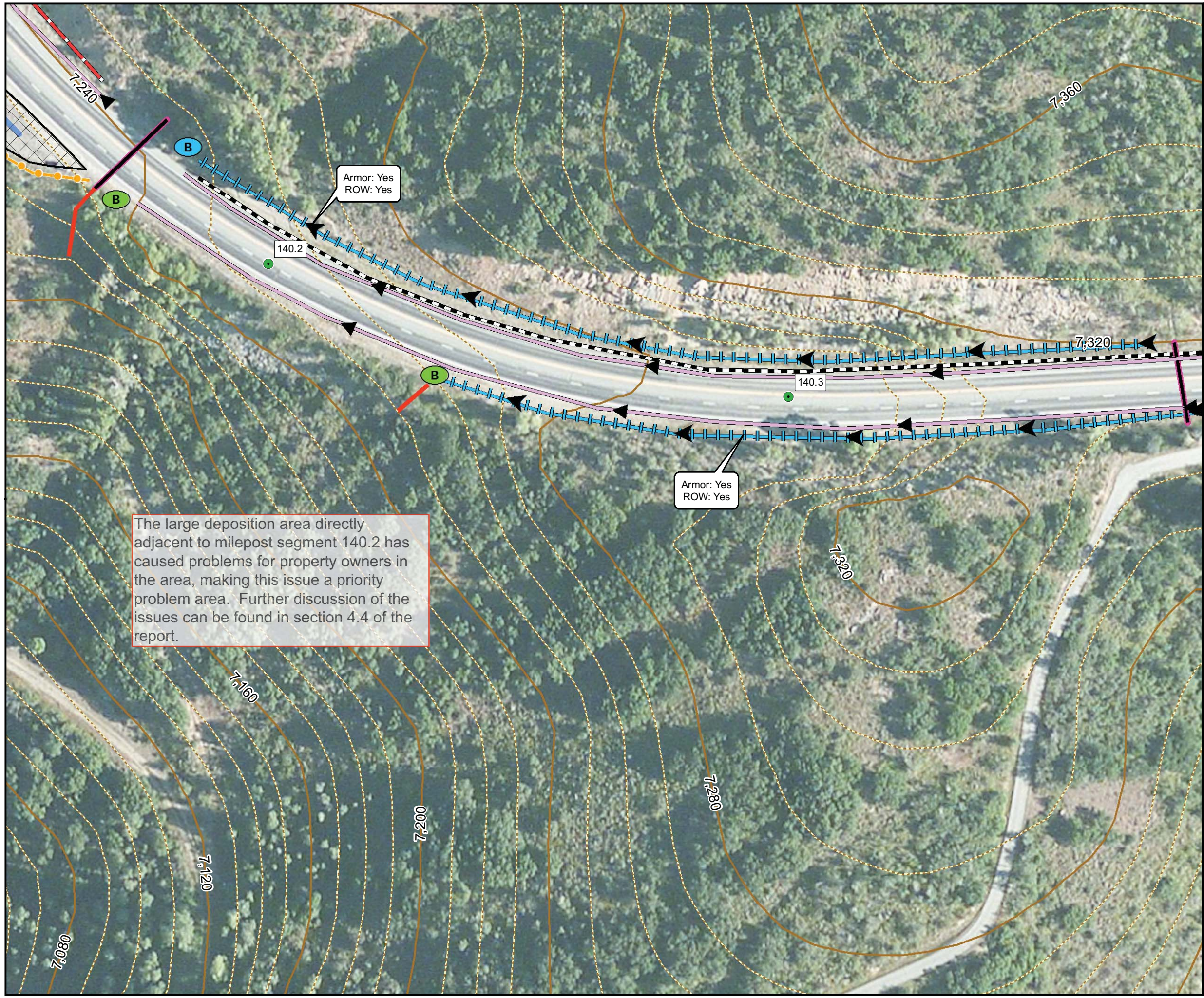
**Sediment Basins**

Map Date: 7/2013  
 Data Source: CDOT,  
 Routt County, Bing Imagery



Armor: No  
ROW: Yes

Armor: Yes  
ROW: Yes



**Legend**

- Mileposts
- Milepost Segments
- 10ft Contours
- 40ft Contours
- Access Road
- Pavestone

**Preventative BMPs**

- Clean Water Diversions
- Limit Traction Material
- Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- Snow Storage
- Drain
- Large
- Medium
- Small

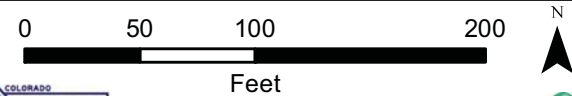
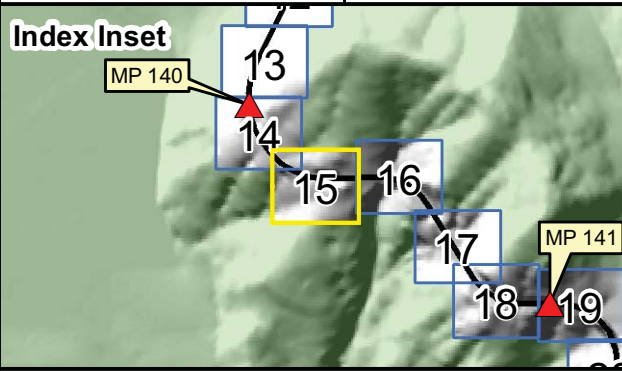
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- Sand Cans
- Large
- Medium
- Small

**Sediment Basins**

Map Date: 7/2013  
 Data Source: CDOT, Routt County, Bing Imagery



1:1,000 Scale



The locations of many culverts on Rabbit Ears Pass have yet to be identified. This is crucial information for the design and implementation of BMPs. A priority for maintenance should be to locate and map the remaining culverts. For example, it is highly likely that there is a culvert near this location.

### Legend

- Mileposts
- Milepost Segments
- - - 10ft Contours
- - - Access Road
- 40ft Contours
- Pavestone

### Preventative BMPs

- Clean Water Diversions
- ▨ Limit Traction Material
- ▨ Revegetation Zone

### Collection BMPs

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- ▨ Snow Storage
- ✕ Drain
- ▨ Large
- ▨ Medium
- ▨ Small

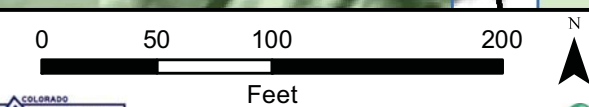
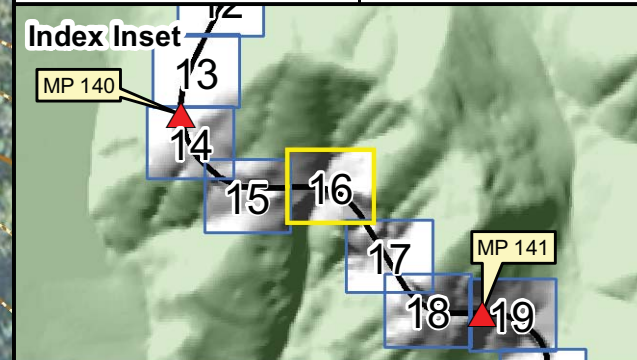
### Ditch Types

### Treatment BMPs

- Bench Trap
- ▨ Loading Dock Trap
- Sand Cans
- Large
- Medium
- Small

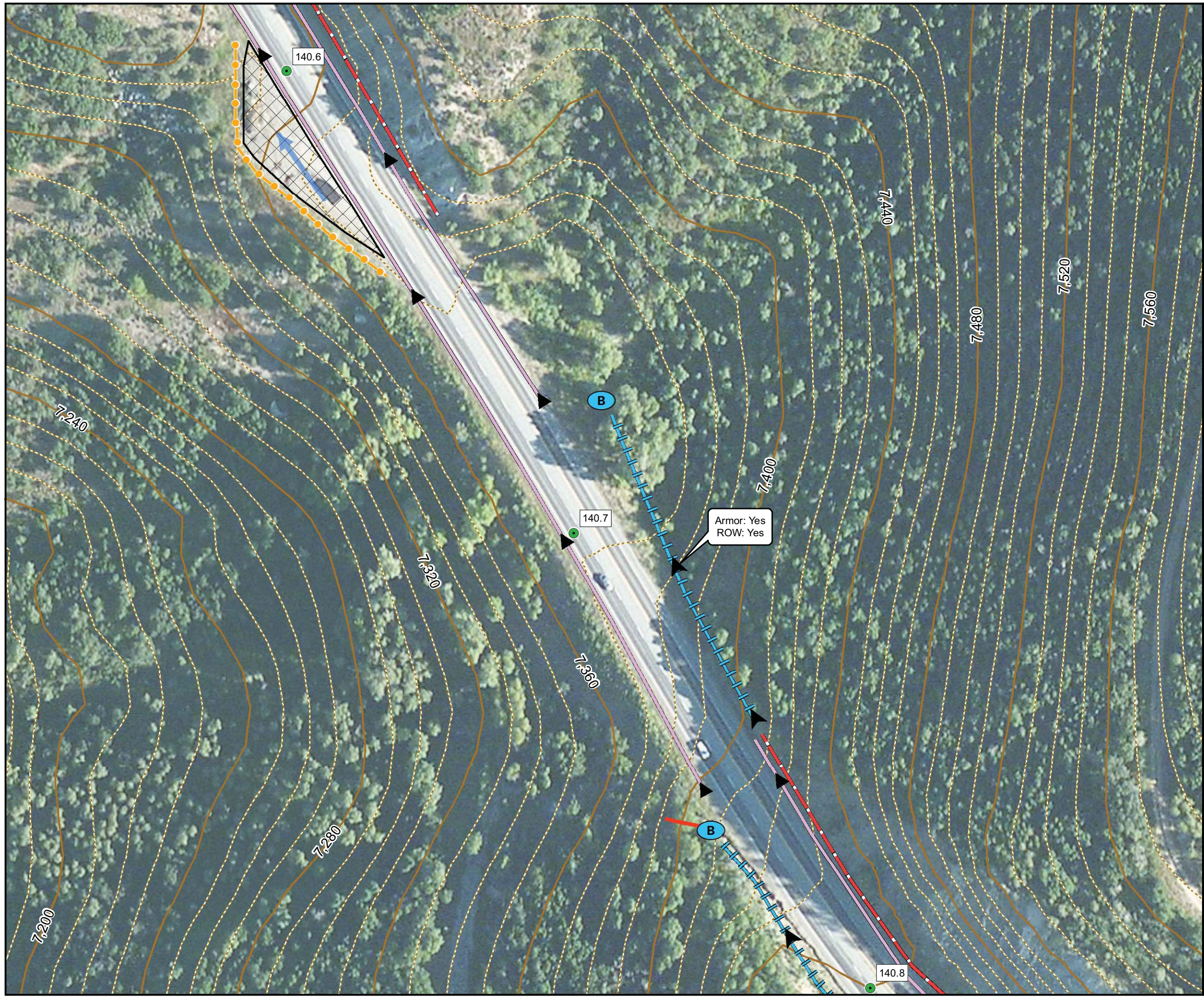
### Sediment Basins

Map Date: 7/2013  
 Data Source: CDOT, Routt County, Bing Imagery



1:1,000 Scale





**Legend**

- Mileposts
- Milepost Segments
- 10ft Contours
- Access Road
- 40ft Contours
- Pavestone

**Preventative BMPs**

- Clean Water Diversions
- Limit Traction Material
- Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- Snow Storage
- ✕ Drain
- Large
- Medium
- Small

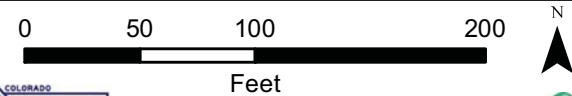
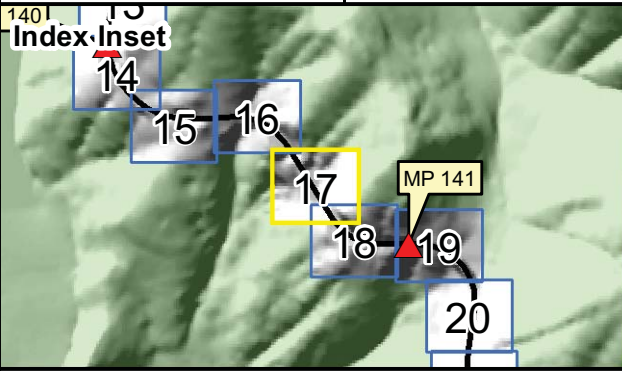
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- Sand Cans
- Large
- Medium
- Small

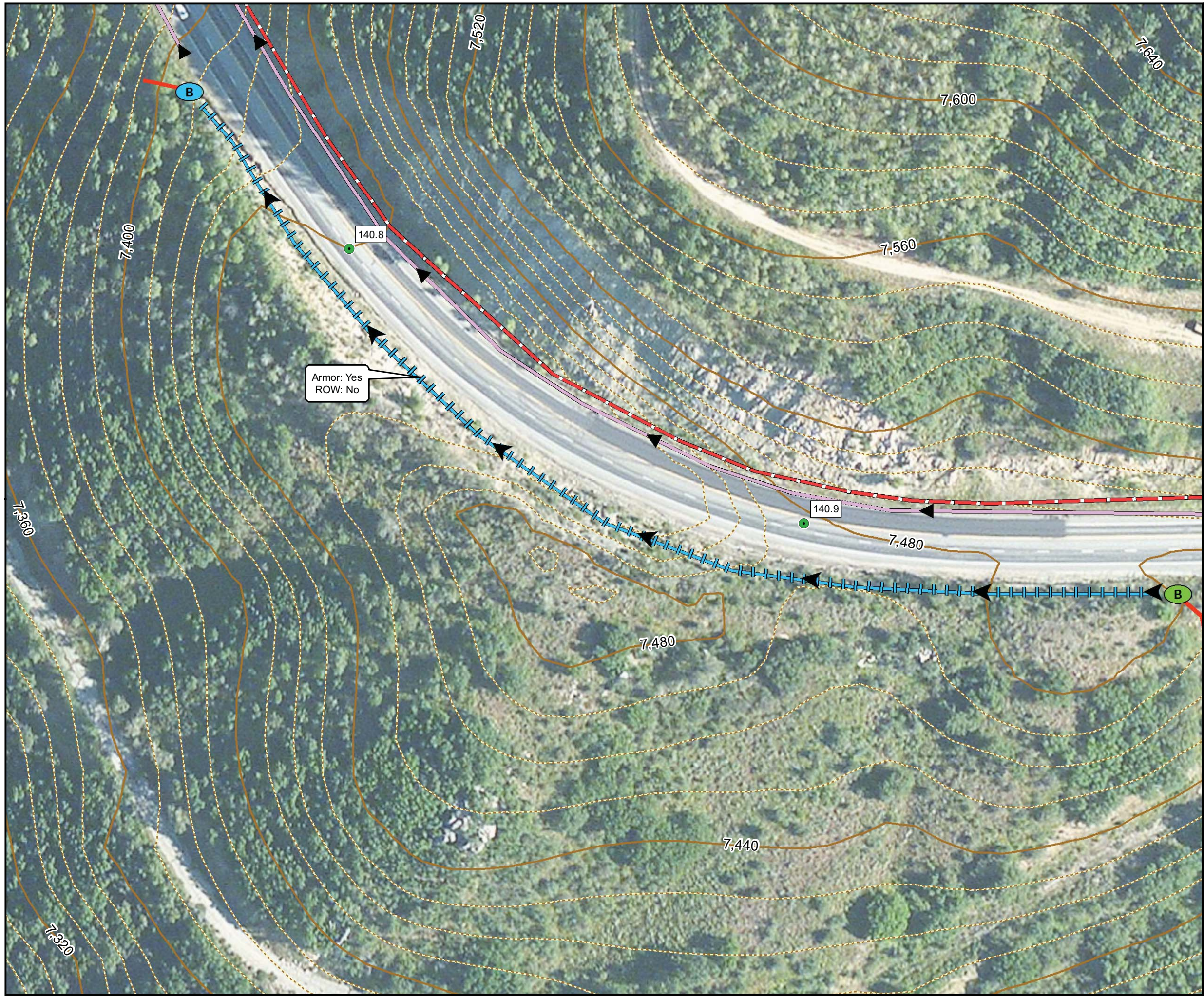
**Sediment Basins**

Map Date: 7/2013  
 Data Source: CDOT,  
 Routt County, Bing Imagery



1:1,000 Scale





**Legend**

- Mileposts
- Milepost Segments
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- - - Access Road
- 40ft Contours
- Pavestone

**Preventative BMPs**

- Clean Water Diversions
- ▨ Limit Traction Material
- ▨ Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- ▨ Snow Storage
- Drain
- Large
- Medium
- Small

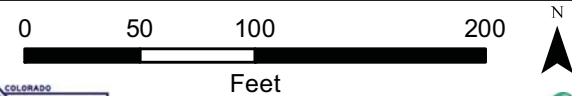
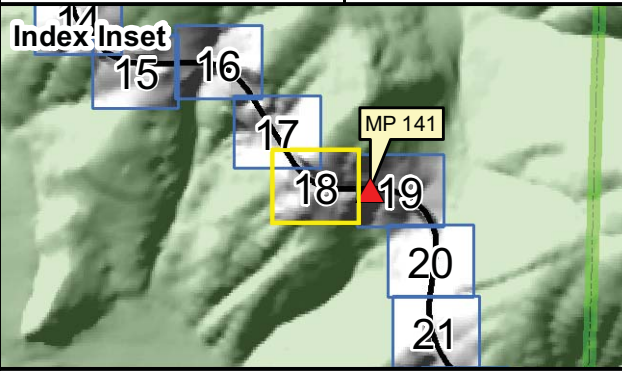
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- ▨ Loading Dock Trap
- ⊙ Sand Cans
- Large
- Medium
- Small

**Sediment Basins**

Map Date: 7/2013  
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 Routt County, Bing Imagery



1:1,000 Scale





**Legend**

- Mileposts
- Milepost Segments
- 10ft Contours
- Access Road
- 40ft Contours
- Pavestone

**Preventative BMPs**

- Clean Water Diversions
- Limit Traction Material
- Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- Snow Storage
- ✕ Drain
- Large
- Medium
- Small

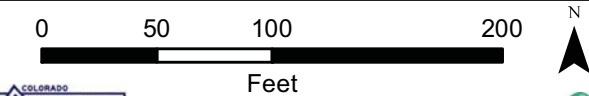
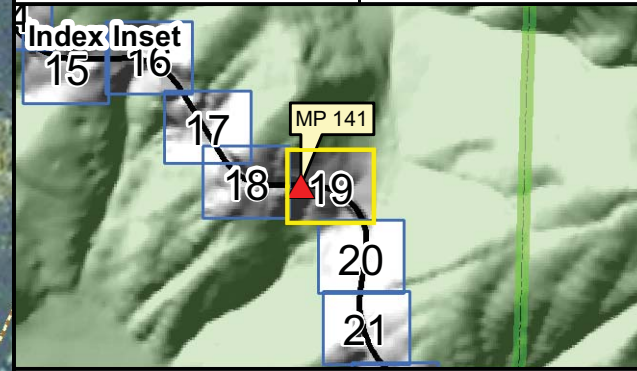
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- Sand Cans
- Large
- Medium
- Small

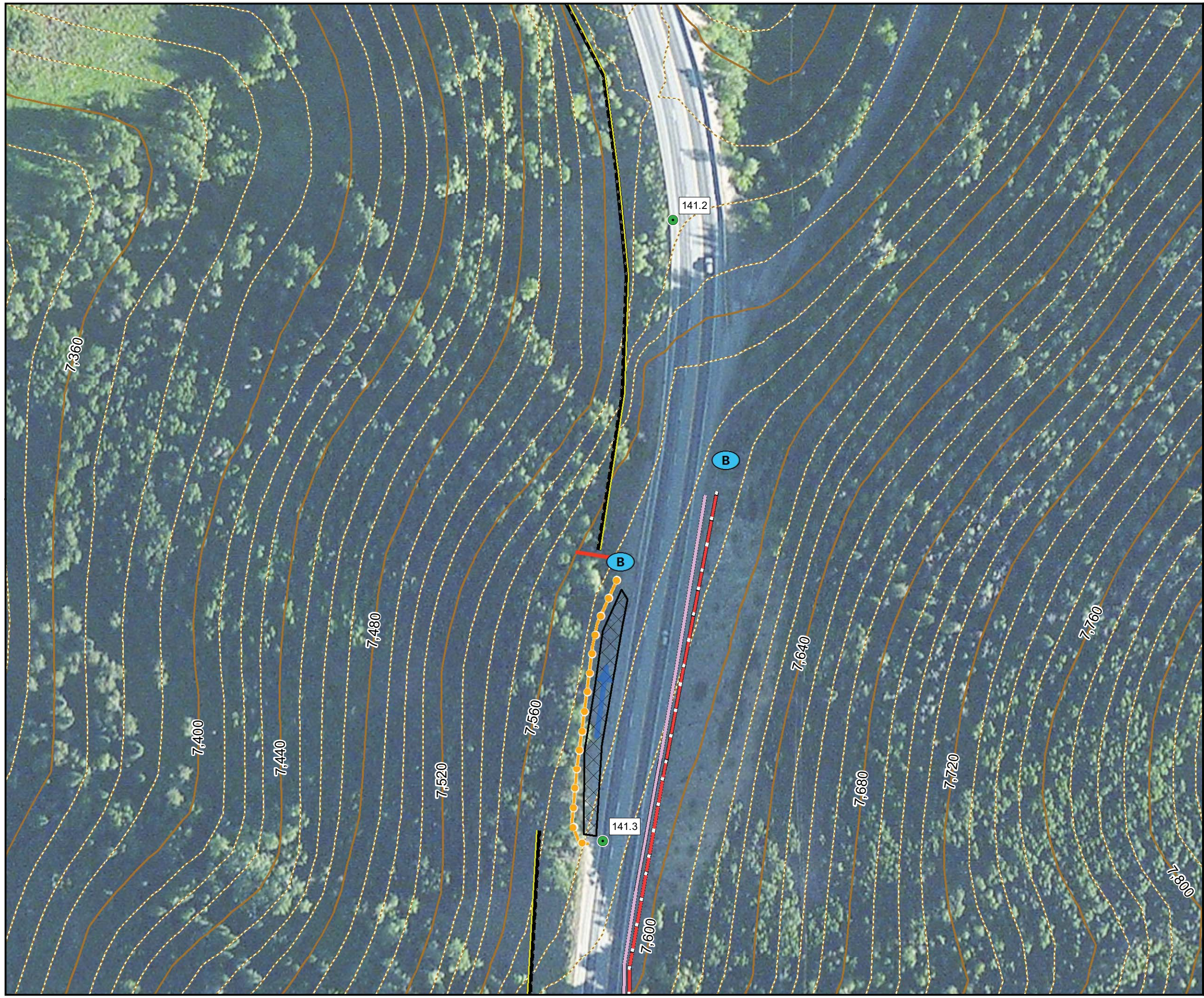
**Sediment Basins**

Map Date: 7/2013  
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 Routt County, Bing Imagery



1:1,000 Scale





**Legend**

- Mileposts
- Milepost Segments
- - - 10ft Contours
- - - Access Road
- 40ft Contours
- Pavestone

**Preventative BMPs**

- Clean Water Diversions
- ▨ Limit Traction Material
- ▨ Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- ▨ Snow Storage
- X—X Drain
- ▨ Large
- ▨ Medium
- ▨ Small

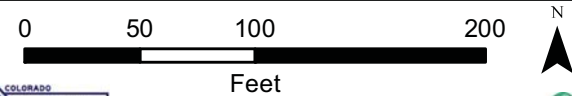
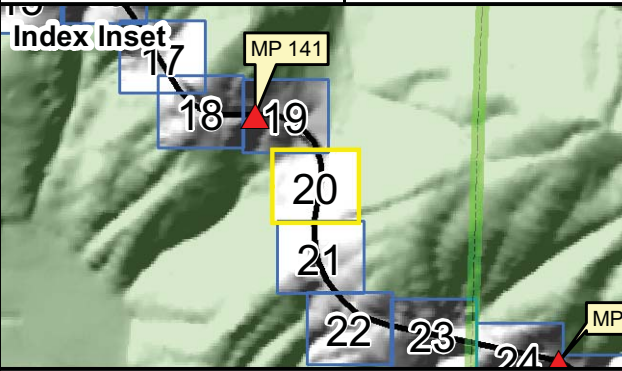
**Ditch Types**

**Treatment BMPs**

- ▨ Bench Trap
- ▨ Loading Dock Trap
- ⊙ Sand Cans
- Large
- Medium
- Small

**Sediment Basins**

Map Date: 7/2013  
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 Routt County, Bing Imagery



1:1,000 Scale





**Legend**

- Mileposts
- Milepost Segments
- - - 10ft Contours
- - - Access Road
- 40ft Contours
- ▣ Pavestone

**Preventative BMPs**

- Clean Water Diversions
- ▨ Limit Traction Material
- ▨ Revegetation Zone

**Collection BMPs**

- Barriers
- Berm
- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- ▣ Snow Storage
- ✕ Drain
- ▨ Large
- ▨ Medium
- ▨ Small

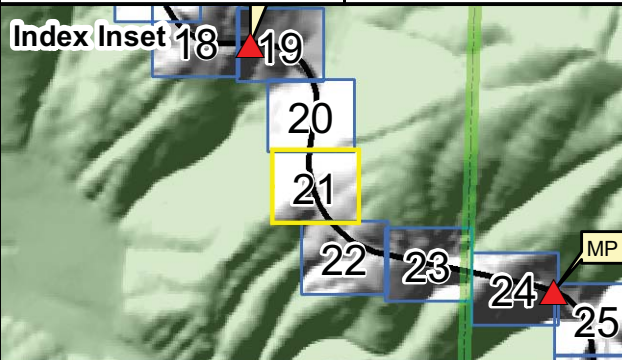
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- ▣ Loading Dock Trap
- ⊙ Sand Cans
- ⊙ Large
- ⊙ Medium
- ⊙ Small

**Sediment Basins**

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**Legend**

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- Pavestone

**Preventative BMPs**

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- ▨ Revegetation Zone

**Collection BMPs**

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- Culverts
- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- ▨ Snow Storage
- Drain
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- Medium
- Small

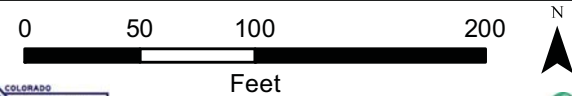
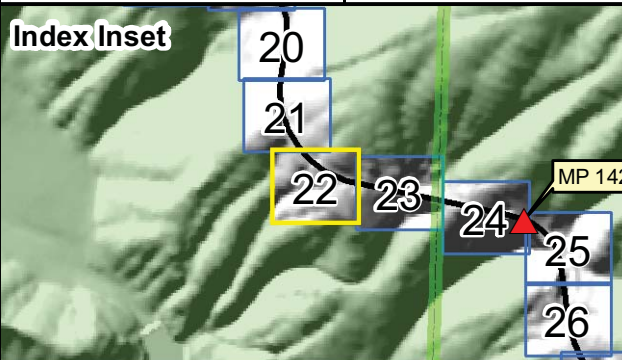
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- ▨ Loading Dock Trap
- ⊙ Sand Cans
- Large
- Medium
- Small

**Sediment Basins**

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**Legend**

- Mileposts
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- - - 10ft Contours
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- 40ft Contours
- ▭ Pavestone

**Preventative BMPs**

- Clean Water Diversions
- ▭ Limit Traction Material
- ▭ Revegetation Zone

**Collection BMPs**

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- Rundown
- Kneewall & French Drain
- ▭ Snow Storage
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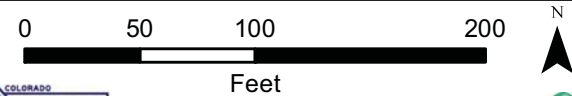
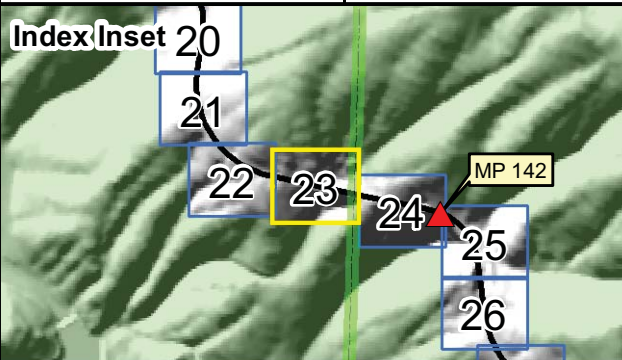
**Ditch Types**

**Treatment BMPs**

- Bench Trap
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- Sand Cans
- Large
- Medium
- Small

**Sediment Basins**

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**Legend**

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- Culverts
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- Pan Drain
- Rundown
- Kneewall & French Drain
- Snow Storage
- Drain
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- Medium
- Small

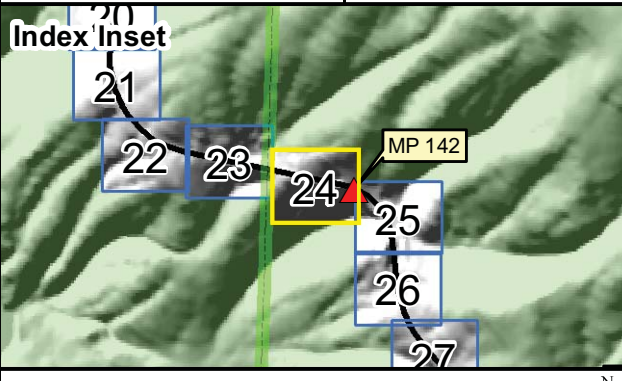
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- Sand Cans
- Large
- Medium
- Small

**Sediment Basins**

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- Geo-Textile Tubes
- Pan Drain
- Rundown
- Kneewall & French Drain
- Snow Storage
- ✕ Drain
- ||| Large
- ||| Medium
- ||| Small

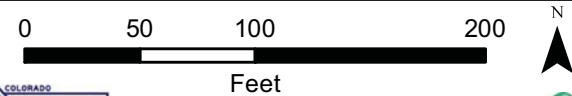
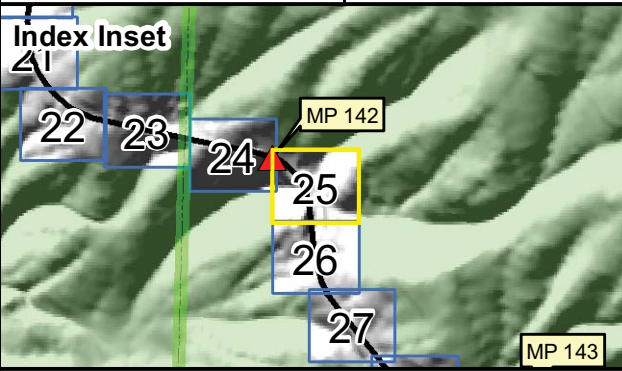
**Ditch Types**

**Treatment BMPs**

- Bench Trap
- Loading Dock Trap
- ◎ Sand Cans
- Large
- Medium
- Small

**Sediment Basins**

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1:1,000 Scale

