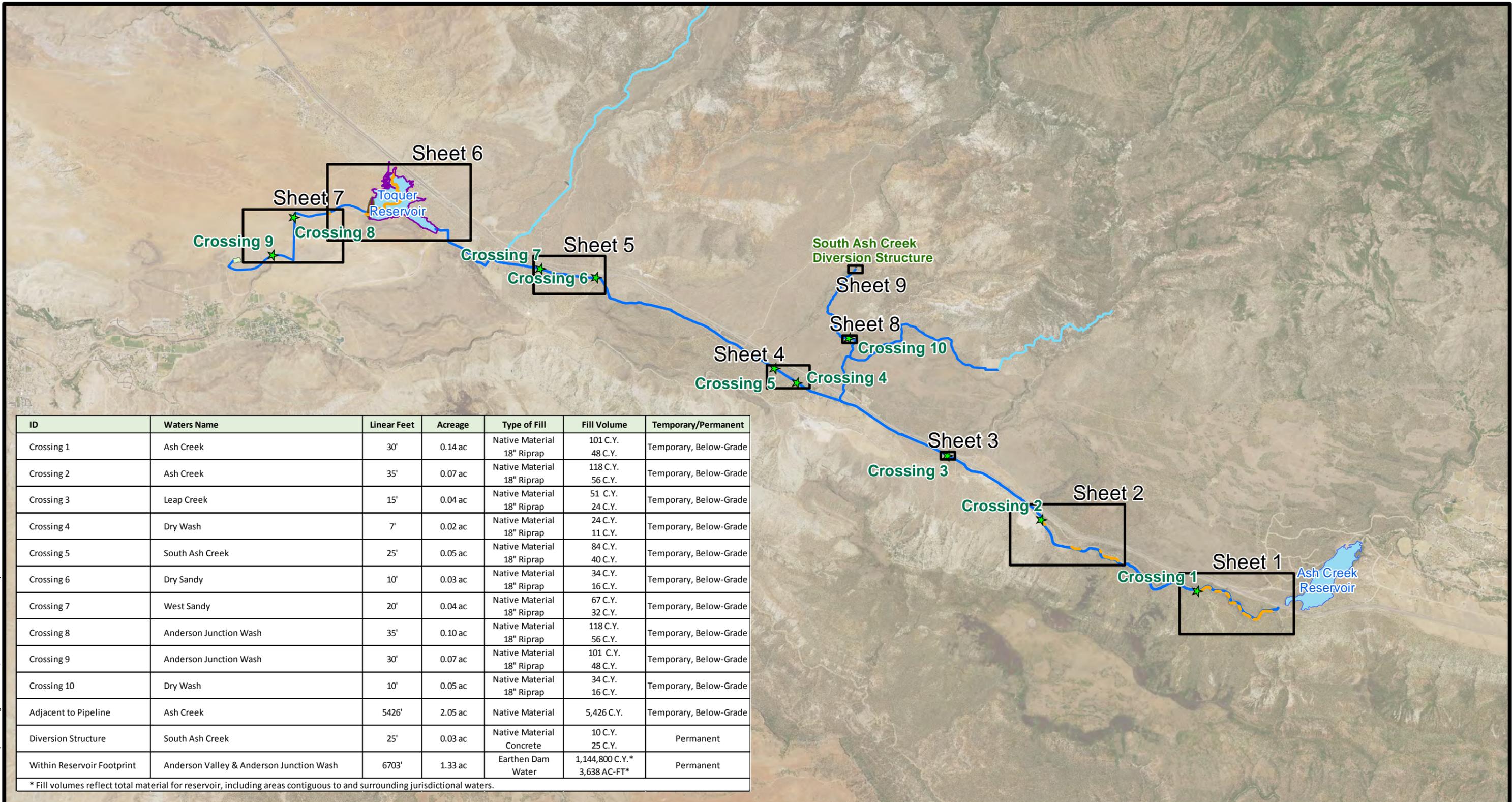


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ID	Waters Name	Linear Feet	Acreage	Type of Fill	Fill Volume	Temporary/Permanent
Crossing 1	Ash Creek	30'	0.14 ac	Native Material 18" Riprap	101 C.Y. 48 C.Y.	Temporary, Below-Grade
Crossing 2	Ash Creek	35'	0.07 ac	Native Material 18" Riprap	118 C.Y. 56 C.Y.	Temporary, Below-Grade
Crossing 3	Leap Creek	15'	0.04 ac	Native Material 18" Riprap	51 C.Y. 24 C.Y.	Temporary, Below-Grade
Crossing 4	Dry Wash	7'	0.02 ac	Native Material 18" Riprap	24 C.Y. 11 C.Y.	Temporary, Below-Grade
Crossing 5	South Ash Creek	25'	0.05 ac	Native Material 18" Riprap	84 C.Y. 40 C.Y.	Temporary, Below-Grade
Crossing 6	Dry Sandy	10'	0.03 ac	Native Material 18" Riprap	34 C.Y. 16 C.Y.	Temporary, Below-Grade
Crossing 7	West Sandy	20'	0.04 ac	Native Material 18" Riprap	67 C.Y. 32 C.Y.	Temporary, Below-Grade
Crossing 8	Anderson Junction Wash	35'	0.10 ac	Native Material 18" Riprap	118 C.Y. 56 C.Y.	Temporary, Below-Grade
Crossing 9	Anderson Junction Wash	30'	0.07 ac	Native Material 18" Riprap	101 C.Y. 48 C.Y.	Temporary, Below-Grade
Crossing 10	Dry Wash	10'	0.05 ac	Native Material 18" Riprap	34 C.Y. 16 C.Y.	Temporary, Below-Grade
Adjacent to Pipeline	Ash Creek	5426'	2.05 ac	Native Material	5,426 C.Y.	Temporary, Below-Grade
Diversion Structure	South Ash Creek	25'	0.03 ac	Native Material Concrete	10 C.Y. 25 C.Y.	Permanent
Within Reservoir Footprint	Anderson Valley & Anderson Junction Wash	6703'	1.33 ac	Earthen Dam Water	1,144,800 C.Y.* 3,638 AC-FT*	Permanent

\* Fill volumes reflect total material for reservoir, including areas contiguous to and surrounding jurisdictional waters.



- Legend**
- Sheets
  - Reservoir
  - Pipeline Alignment
  - Existing Pipeline Alignment
  - ★ Pipeline Crossing Ephemeral Wash Location
  - Ephemeral Wash Location within Project Area



**1 of 1**

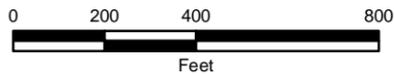
**Pipe Crossing Index**

**WCWCD Ash Creek Pipeline and Toquer Reservoir**

<b>Spatial Reference:</b>	Utah State Plane NAD 83, feet
<b>Drawn By:</b>	JTM
<b>Scale:</b>	1 inch = 1 miles
<b>Date:</b>	April 19, 2016



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Legend**

- Reservoir
- Stream Ordinary High Water Mark (OHWM)
- Pipeline Alignment
- 100' Construction Disturbance Boundary
- Temporary Construction Disturbance within OHWM
- Pipeline Crossing Ephemeral Wash Location

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**1 of 9**

**Pipe Crossing Sheet 1**

**WCWCD Ash Creek Pipeline and Toquer Reservoir**

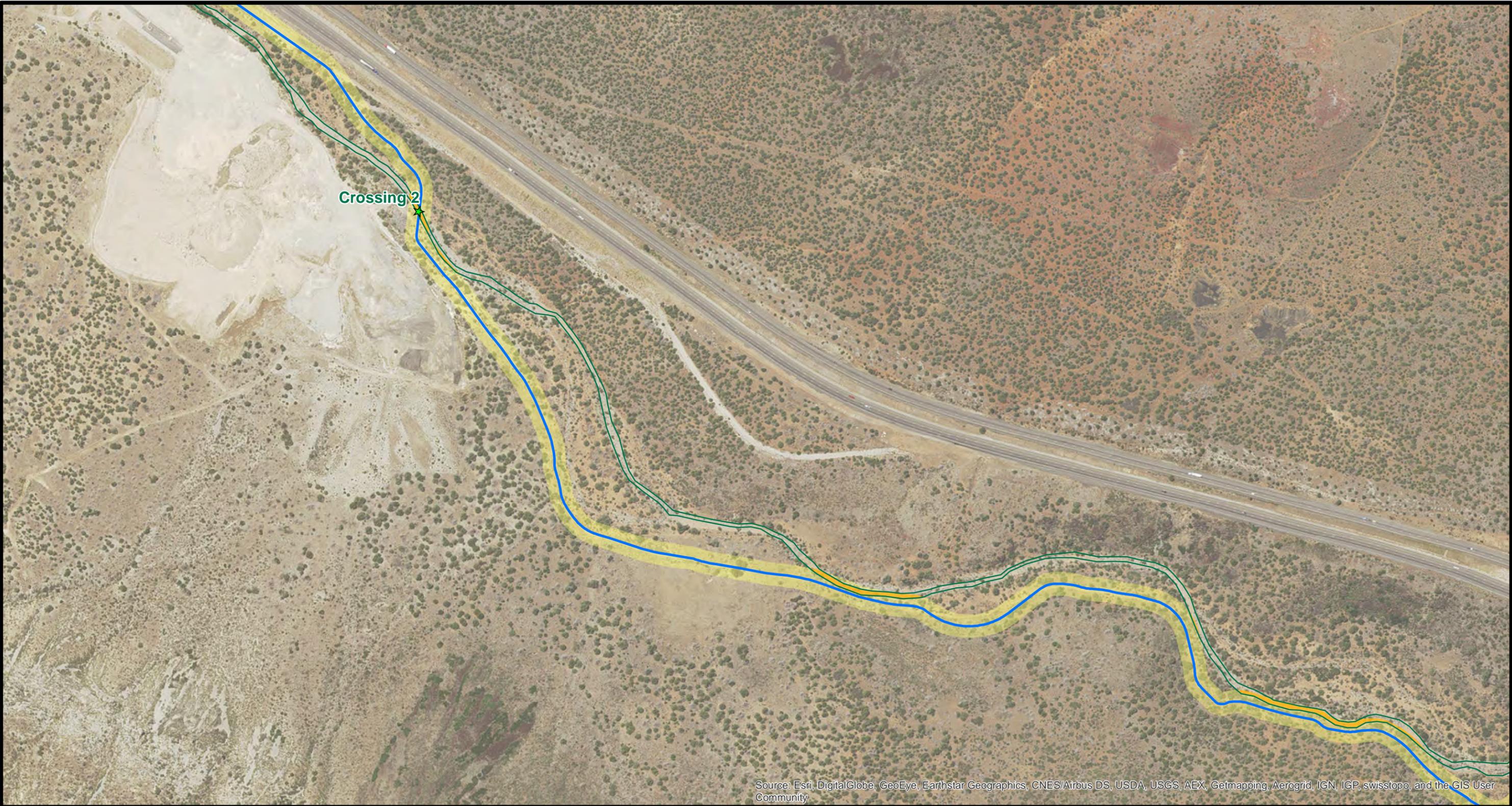
**Spatial Reference:** Utah State Plane NAD 83, feet

**Drawn By:** JTM

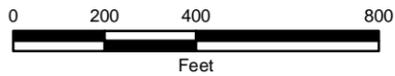
**Scale:** 1 inch = 400 feet

**Date:** April 19, 2016

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Legend**

- Reservoir
- Stream Ordinary High Water Mark (OHWM)
- Pipeline Alignment
- 100' Construction Disturbance Boundary
- Temporary Construction Disturbance within OHWM
- ★ Pipeline Crossing Ephemeral Wash Location

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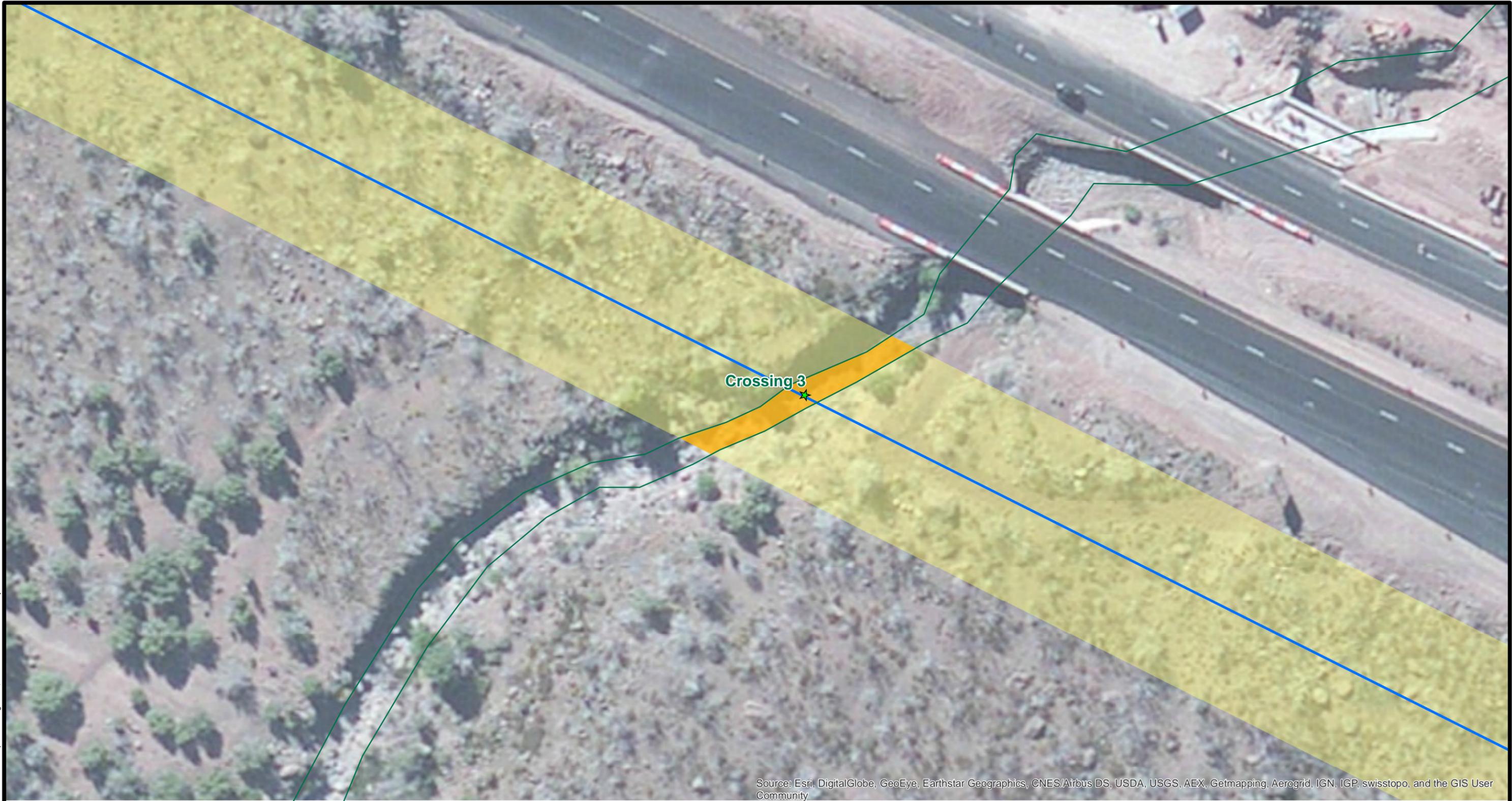


**Pipe Crossing Sheet 2**

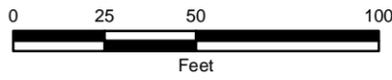
**WCWCD Ash Creek Pipeline and Toquer Reservoir**

<b>Spatial Reference:</b>	Utah State Plane NAD 83, feet
<b>Drawn By:</b>	JTM
<b>Scale:</b>	1 inch = 400 feet
<b>Date:</b>	April 19, 2016

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Legend**

- Reservoir
- Stream Ordinary High Water Mark (OHWM)
- Pipeline Alignment
- 100' Construction Disturbance Boundary
- Temporary Construction Disturbance within OHWM
- ★ Pipeline Crossing Ephemeral Wash Location

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**3 of 9**

**Pipe Crossing Sheet 3**

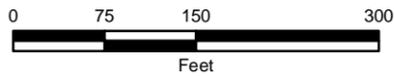
**WCWCD Ash Creek Pipeline and Toquer Reservoir**

<b>Spatial Reference:</b>	Utah State Plane NAD 83, feet
<b>Drawn By:</b>	JTM
<b>Scale:</b>	1 inch = 50 feet
<b>Date:</b>	April 19, 2016

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Legend**

- Reservoir
- Stream Ordinary High Water Mark (OHWM)
- Pipeline Alignment
- 100' Construction Disturbance Boundary
- Temporary Construction Disturbance within OHWM
- ★ Pipeline Crossing Ephemeral Wash Location

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**Pipe Crossing Sheet 4**

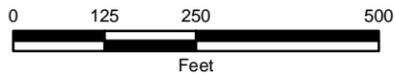
**WCWCD Ash Creek Pipeline and Toquer Reservoir**

<b>Spatial Reference:</b>	Utah State Plane NAD 83, feet
<b>Drawn By:</b>	JTM
<b>Scale:</b>	1 inch = 150 feet
<b>Date:</b>	April 19, 2016

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Legend**

- Reservoir
- Stream Ordinary High Water Mark (OHWM)
- Pipeline Alignment
- 100' Construction Disturbance Boundary
- Temporary Construction Disturbance within OHWM
- ★ Pipeline Crossing Ephemeral Wash Location

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**5 of 9**

**Pipe Crossing Sheet 5**

**WCWCD Ash Creek Pipeline and Toquer Reservoir**

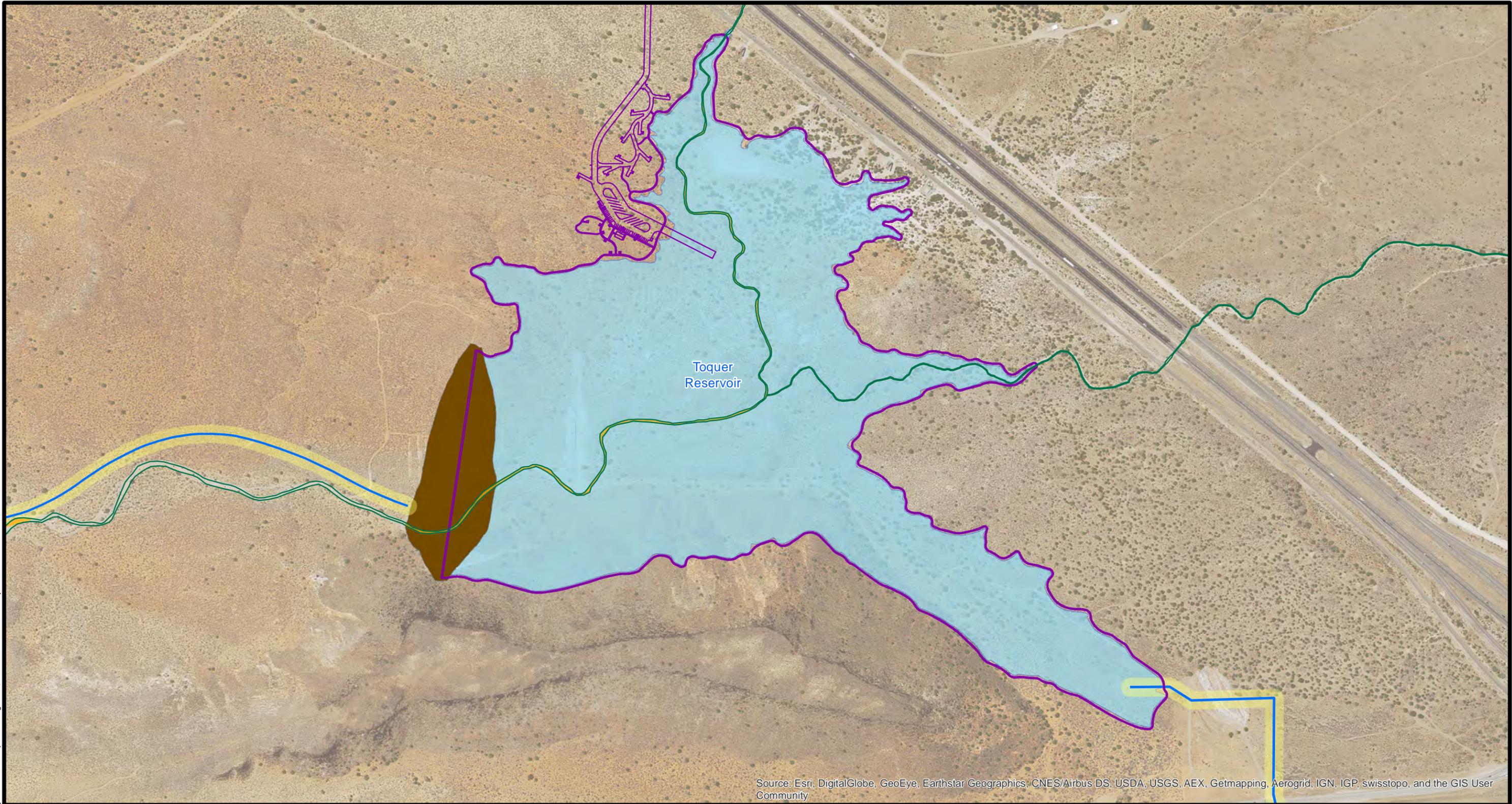
**Spatial Reference:** Utah State Plane NAD 83, feet

**Drawn By:** JTM

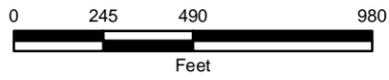
**Scale:** 1 inch = 250 feet

**Date:** April 19, 2016

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Legend**

- Reservoir
- Stream Ordinary High Water Mark (OHWM)
- Pipeline Alignment
- 100' Construction Disturbance Boundary
- Temporary Construction Disturbance within OHWM
- Pipeline Crossing Ephemeral Wash Location

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**6 of 9**

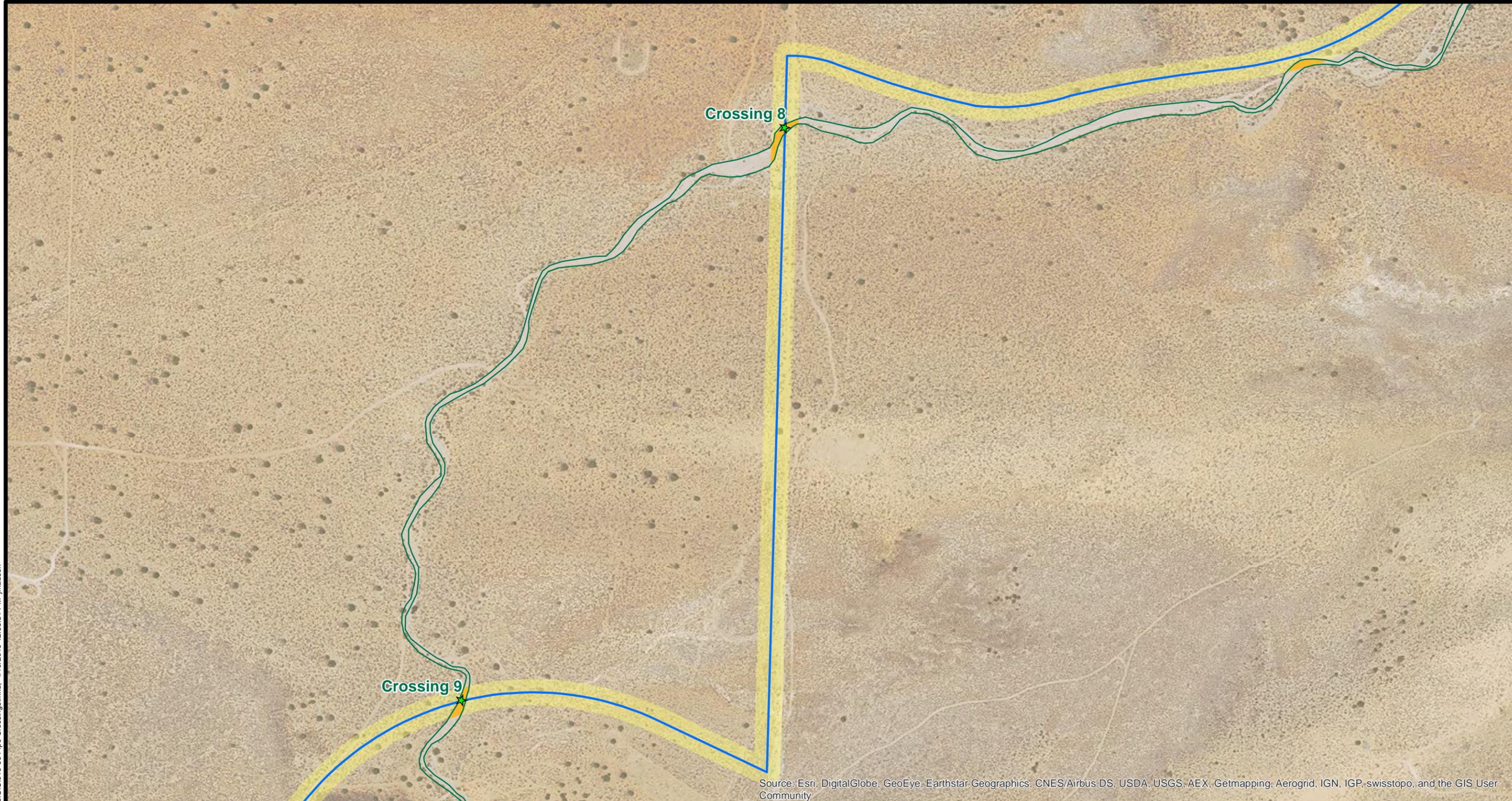
**Pipe Crossing Sheet 6**

**WCWCD Ash Creek Pipeline and Toquer Reservoir**

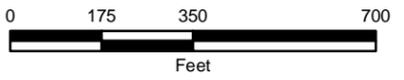
<b>Spatial Reference:</b>	Utah State Plane NAD 83, feet
<b>Drawn By:</b>	JTM
<b>Scale:</b>	1 inch = 500 feet
<b>Date:</b>	April 19, 2016

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Legend**

-  Reservoir
-  Stream Ordinary High Water Mark (OHWM)
-  Pipeline Alignment
-  100' Construction Disturbance Boundary
-  Temporary Construction Disturbance within OHWM
-  Pipeline Crossing Ephemeral Wash Location



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**7 of 9**

**Pipe Crossing Sheet 7**

**WCWCD Ash Creek Pipeline and Toquer Reservoir**

**Spatial Reference:** Utah State Plane NAD 83, feet

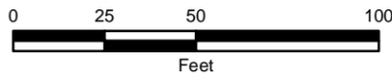
**Drawn By:** JTM

**Scale:** 1 inch = 350 feet

**Date:** April 19, 2016



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Legend**

- Reservoir
- Stream Ordinary High Water Mark (OHWM)
- Pipeline Alignment
- 100' Construction Disturbance Boundary
- Temporary Construction Disturbance within OHWM
- ★ Pipeline Crossing Ephemeral Wash Location

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**8 of 9**

**Pipe Crossing Sheet 8**

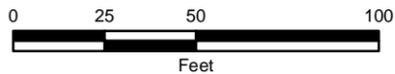
**WCWCD Ash Creek Pipeline and Toquer Reservoir**

<b>Spatial Reference:</b>	Utah State Plane NAD 83, feet
<b>Drawn By:</b>	JTM
<b>Scale:</b>	1 inch = 50 feet
<b>Date:</b>	April 19, 2016

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



**Legend**

- Reservoir
- Stream Ordinary High Water Mark (OHWM)
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**9 of 9**

**Pipe Crossing Sheet 9**

**WCWCD Ash Creek Pipeline and Toquer Reservoir**

**Spatial Reference:** Utah State Plane NAD 83, feet

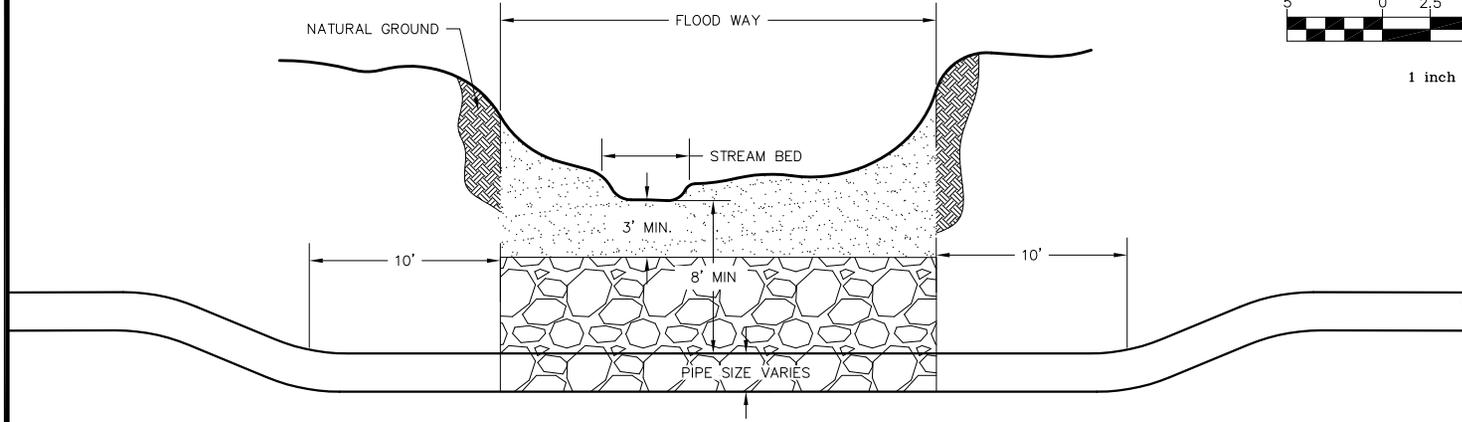
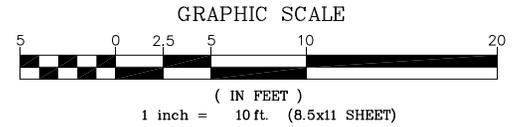
**Drawn By:** JTM

**Scale:** 1 inch = 50 feet

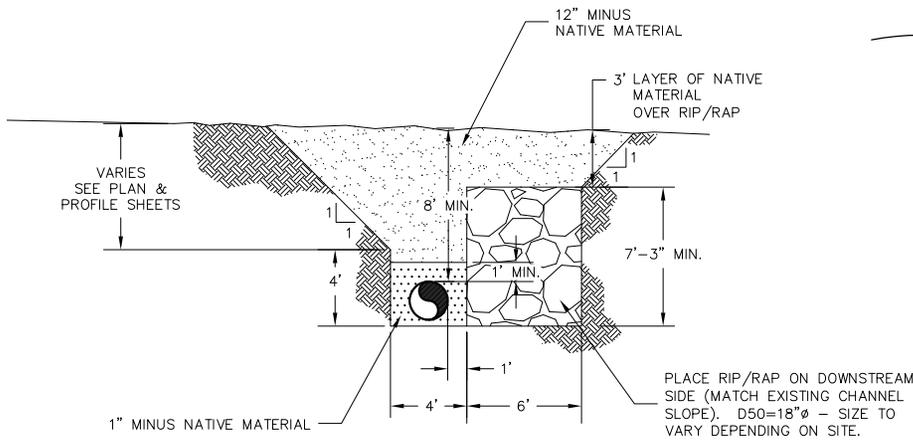
**Date:** April 19, 2016

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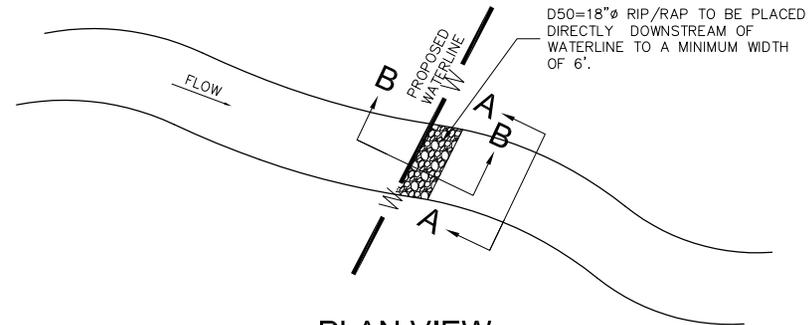
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**SECTION A-A**



**SECTION B-B**



**PLAN VIEW**  
N.T.S.

**NOTES:**

1. BURY DEPTHS AND RIPRAP SIZES ARE MINIMUM REQUIREMENTS
2. RIPRAP NOT REQUIRED IF ON UPSTREAM SIDE OF HIGHWAY

**PIPELINE TYPICAL STREAM CROSSING - PERMIT 404  
ASH CREEK PIPING PROJECT  
WASHINGTON COUNTY WATER CONSERVANCY DISTRICT**

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Approximately 4.4 acres located  
on Virgin River 100 Year  
floodplain and upland areas  
downstream from confluence of  
Ash and LaVerkin Creeks

