



Legend

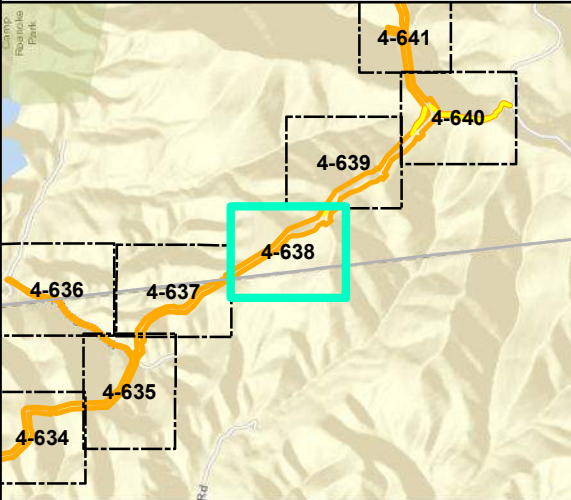
○ Milepost	▨ Pond
- - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-638
Roanoke County, Virginia
November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N





Legend

Milepost

Alignment Centerline

Access Road Temporary LOD

Access Road Permanent LOD

Permanent Facility

Limit of Disturbance

Bore Pit

Culvert

Intermittent

Ephemeral

Perennial

Pond

Palustrine Forested

Palustrine Emergent

Palustrine Scrub-Shrub

Temporary

Permanent

Temporary

Conversion

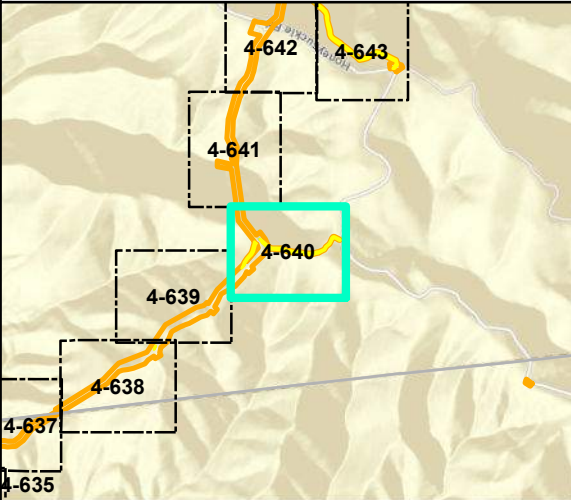
Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



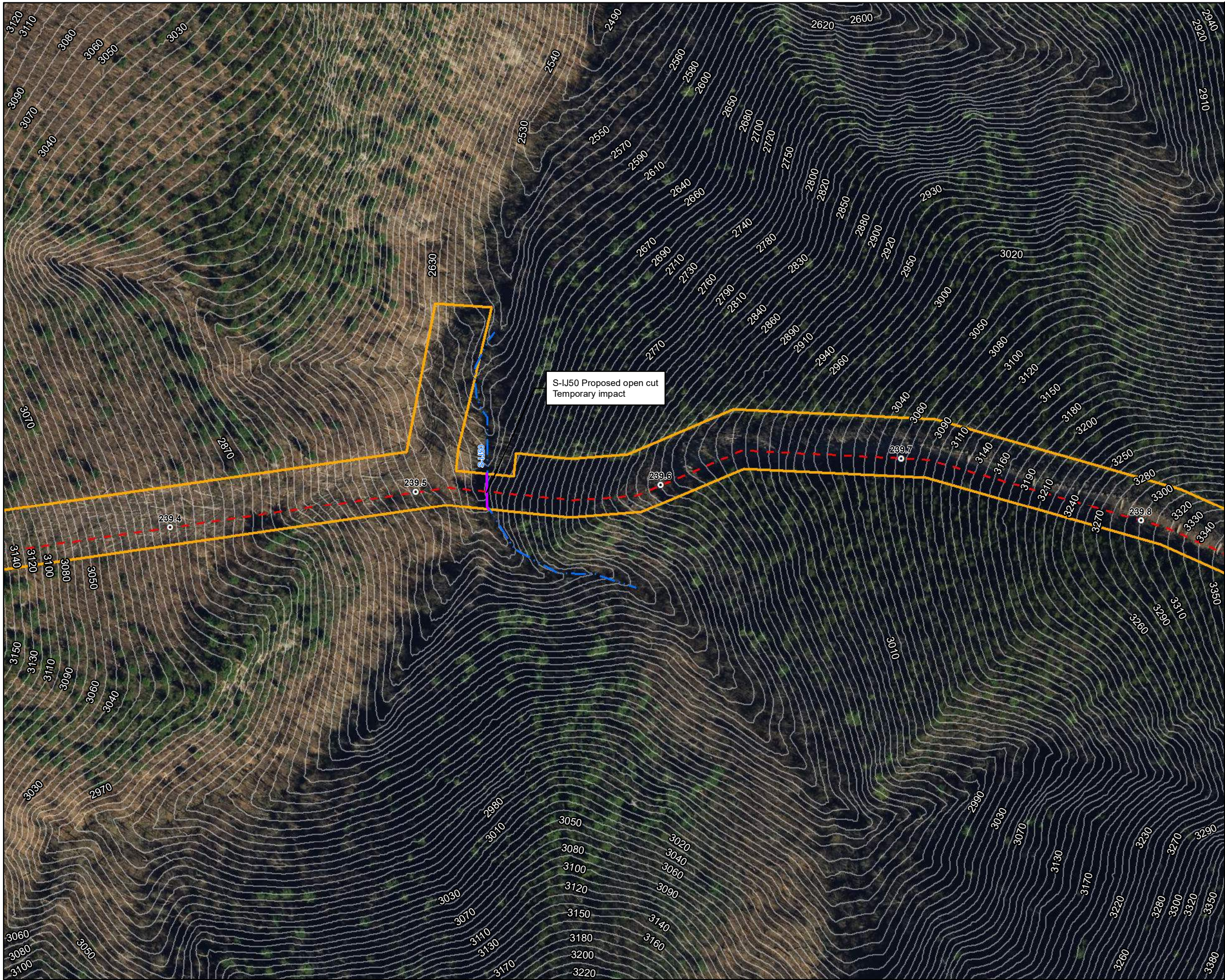
Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-640
Roanoke County, Virginia

November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N



Legend

Milepost

Alignment Centerline

Access Road Temporary LOD

Access Road Permanent LOD

Permanent Facility

Limit of Disturbance

Bore Pit

Culvert

Intermittent

Ephemeral

Perennial

Pond

Palustrine Forested

Palustrine Emergent

Palustrine Scrub-Shrub

Temporary

Permanent

Temporary

Conversion

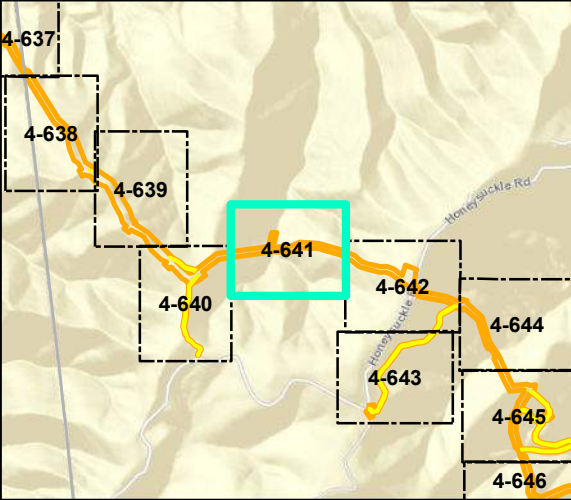
Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

Detail Map

Individual Permit Application

Figure 4-641

Roanoke County, Virginia

November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N



Legend

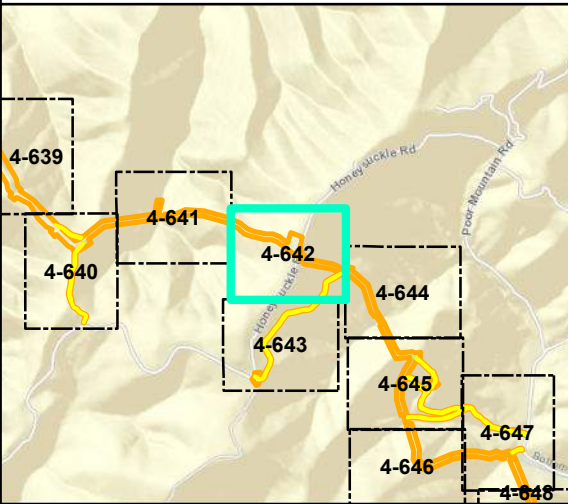
- | | |
|-----------------------------|--------------------------|
| ○ Milepost | ▨ Pond |
| — Alignment Centerline | Wetland |
| ▭ Access Road Temporary LOD | ▨ Palustrine Forested |
| ▭ Access Road Permanent LOD | ▨ Palustrine Emergent |
| ▭ Permanent Facility | ▨ Palustrine Scrub-Shrub |
| ▭ Limit of Disturbance | Stream Impact |
| ▭ Bore Pit | — Temporary |
| — Culvert | — Permanent |
| Stream | Wetland Impact |
| — Intermittent | ▨ Temporary |
| — Ephemeral | ▨ Conversion |
| — Perennial | ▨ Permanent Fill |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project



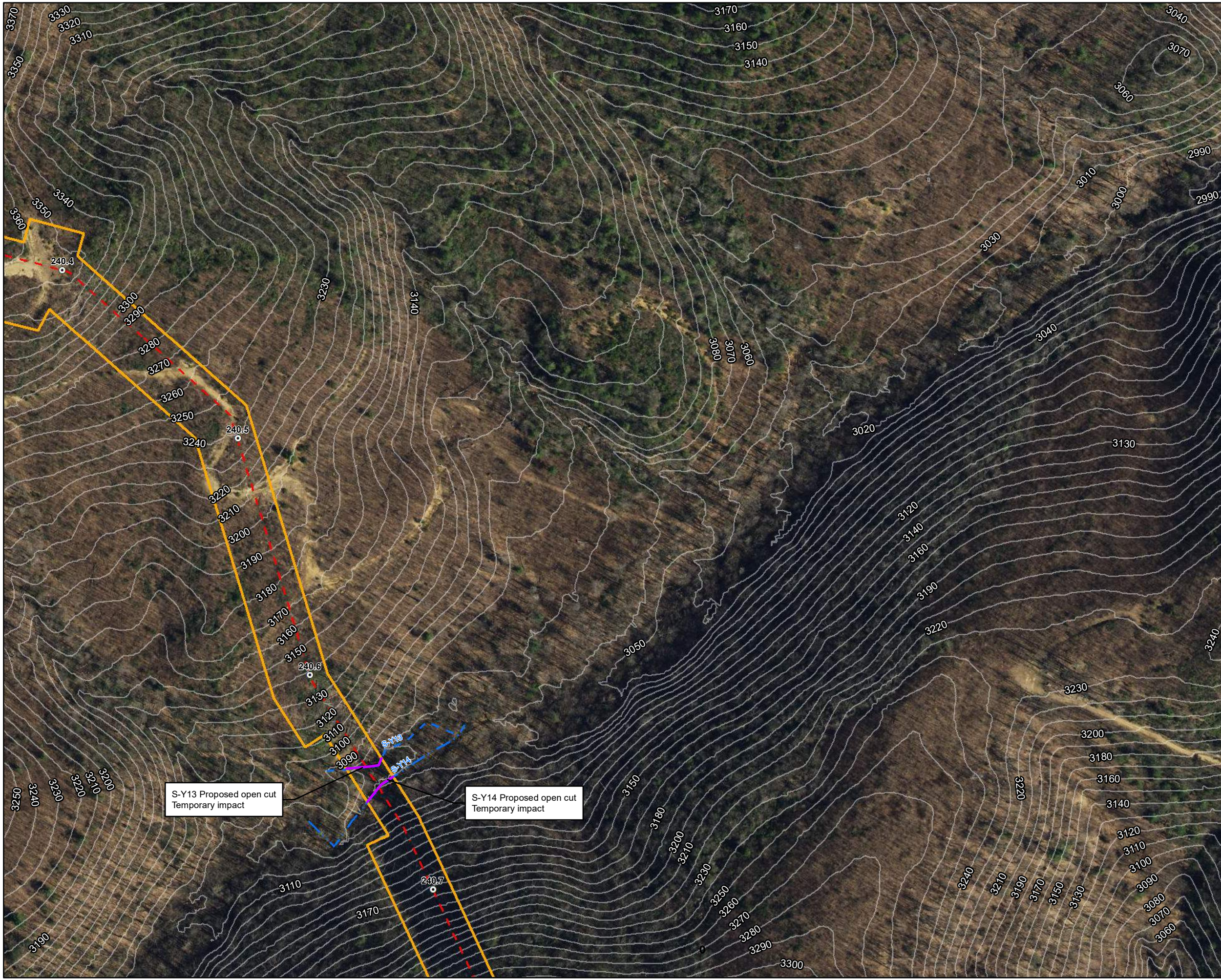
Detail Map Individual Permit Application

Figure 4-642
Roanoke County, Virginia

November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N





Legend

Milepost

Alignment Centerline

Access Road Temporary LOD

Access Road Permanent LOD

Permanent Facility

Limit of Disturbance

Bore Pit

Culvert

Intermittent

Ephemeral

Perennial

Pond

Palustrine Forested

Palustrine Emergent

Palustrine Scrub-Shrub

Temporary

Permanent

Temporary

Conversion

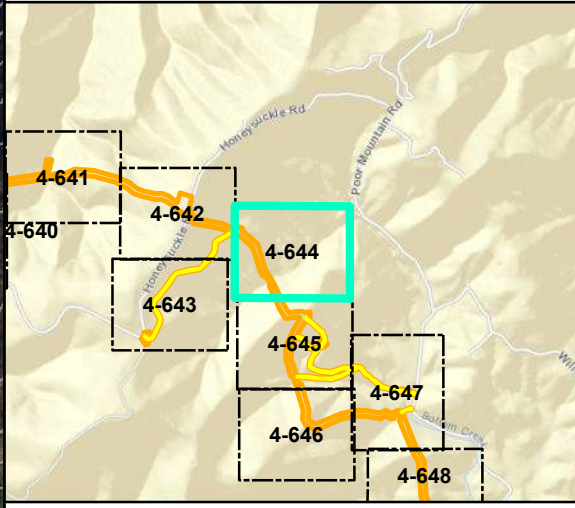
Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

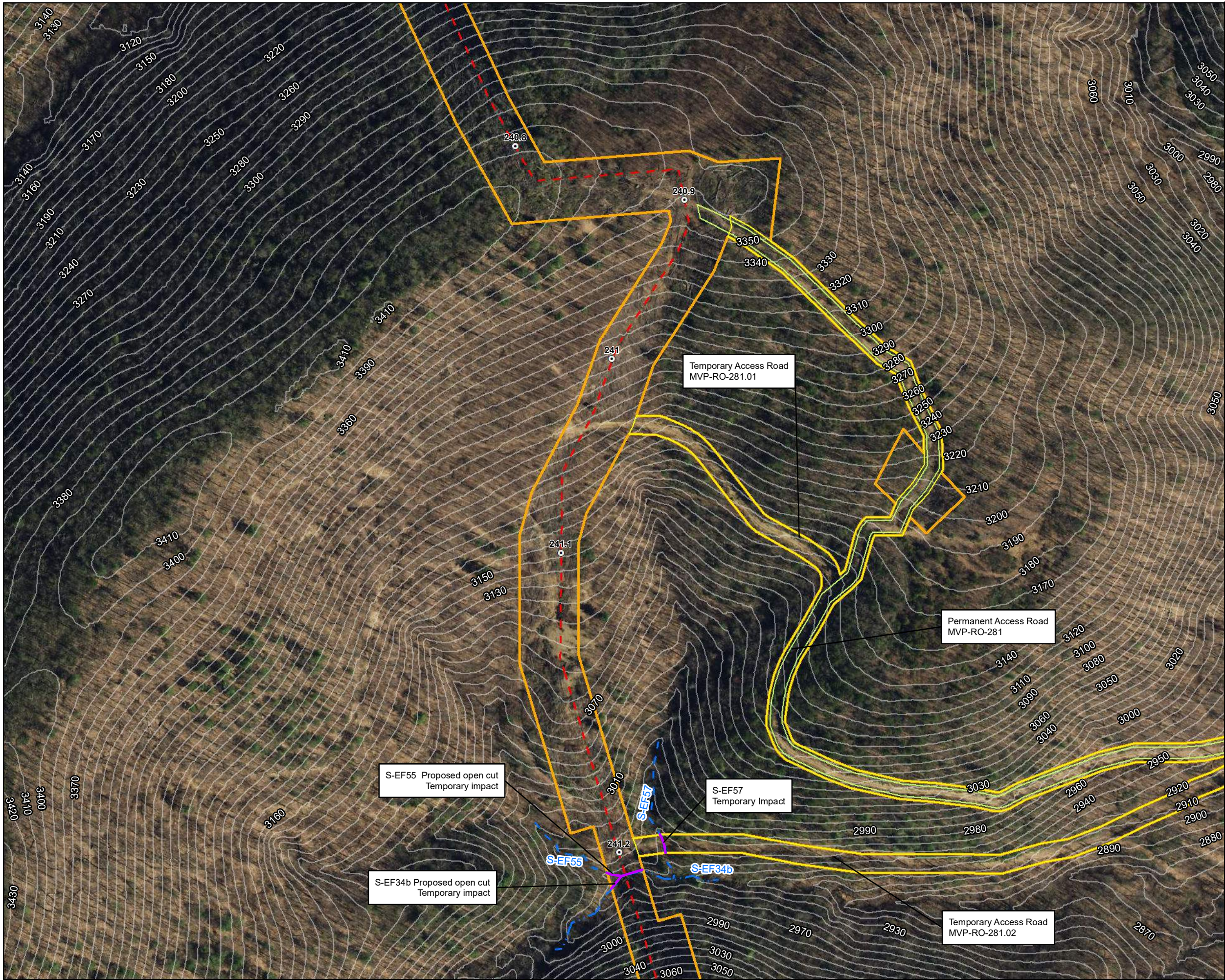
Detail Map
Individual Permit Application

Figure 4-644
Roanoke County, Virginia

November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

Document Path: P:\GIS\REQ\MVP\MapDocs\Wetlands\Individual_Permit\VA\MVP_IP_Detail_VA_RoanokeCo_Contours_Nov2022.mxd



Legend

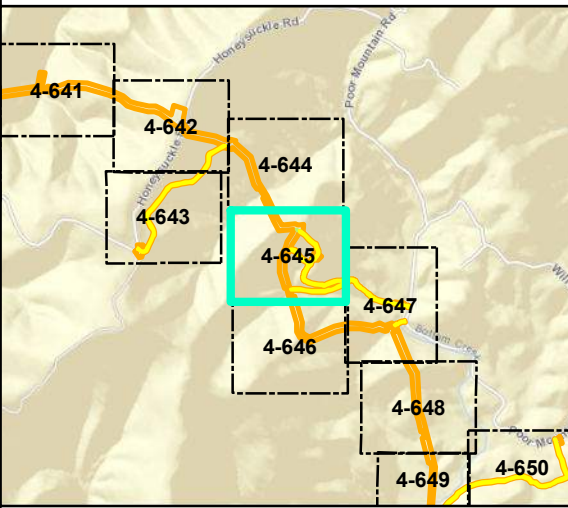
- | | |
|-----------------------------|--------------------------|
| ○ Milepost | ▨ Pond |
| - - - Alignment Centerline | Wetland |
| ▭ Access Road Temporary LOD | ▨ Palustrine Forested |
| ▭ Access Road Permanent LOD | ▨ Palustrine Emergent |
| ▭ Permanent Facility | ▨ Palustrine Scrub-Shrub |
| ▭ Limit of Disturbance | Stream Impact |
| ▭ Bore Pit | — Temporary |
| — Culvert | — Permanent |
| — Intermittent | Wetland Impact |
| — Ephemeral | ▨ Temporary |
| — Perennial | ▨ Conversion |
| | ▨ Permanent Fill |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project



Detail Map Individual Permit Application

Figure 4-645
Roanoke County, Virginia

November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N



Legend

Milepost

Alignment Centerline

Access Road Temporary LOD

Access Road Permanent LOD

Permanent Facility

Limit of Disturbance

Bore Pit

Culvert

Intermittent

Ephemeral

Perennial

Pond

Palustrine Forested

Palustrine Emergent

Palustrine Scrub-Shrub

Temporary

Permanent

Temporary

Conversion

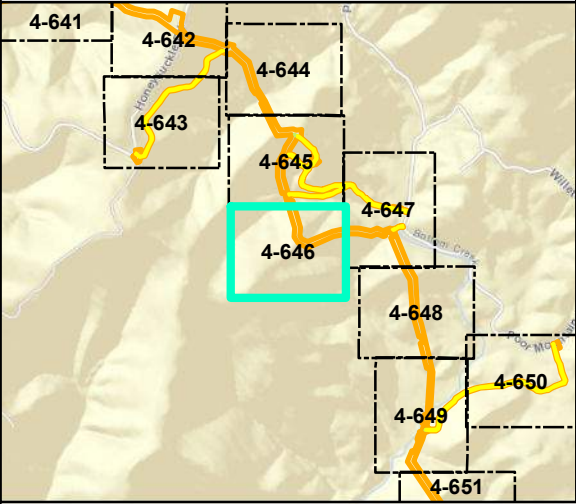
Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

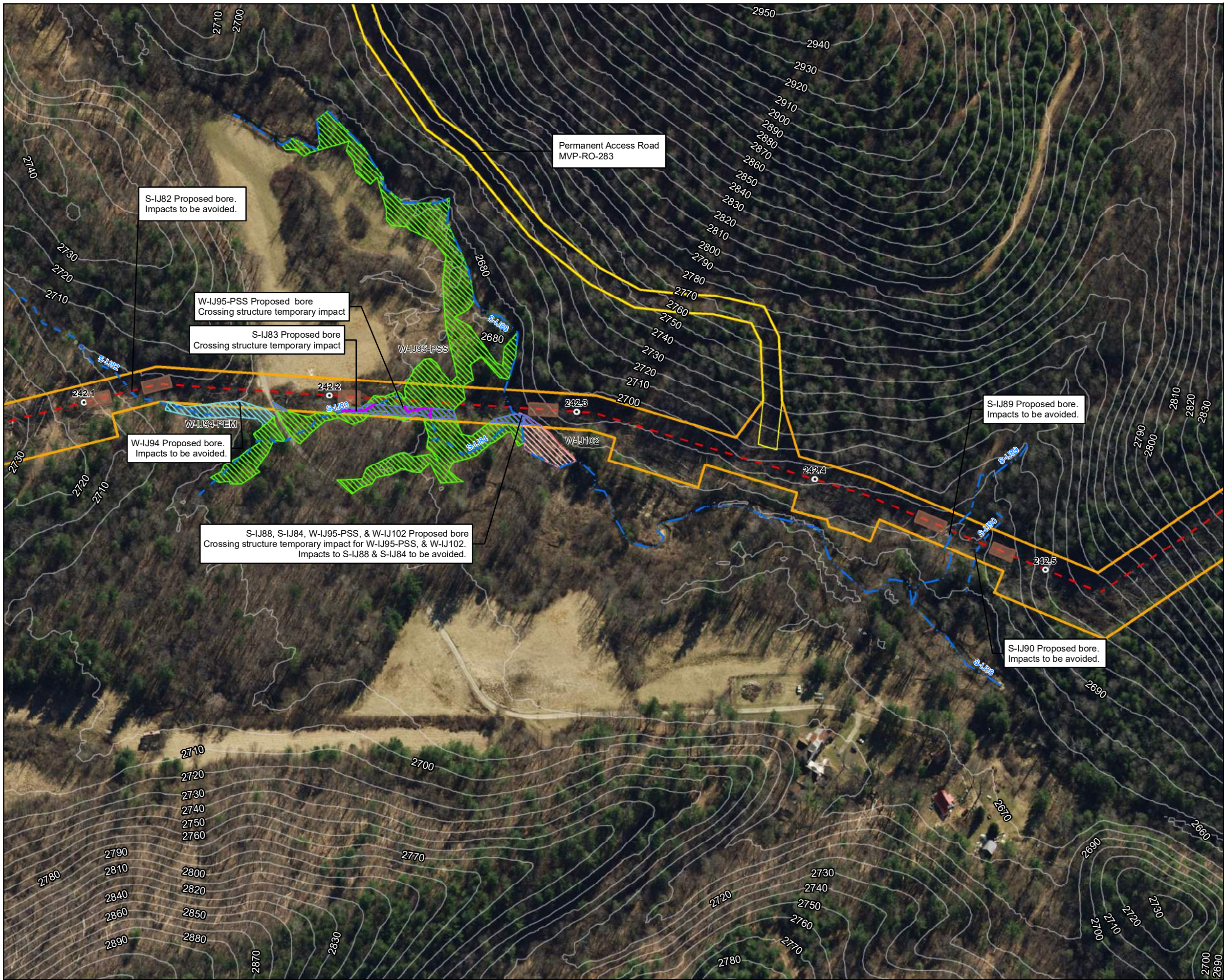
Detail Map
Individual Permit Application

Figure 4-646
Roanoke County, Virginia

November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N





Legend

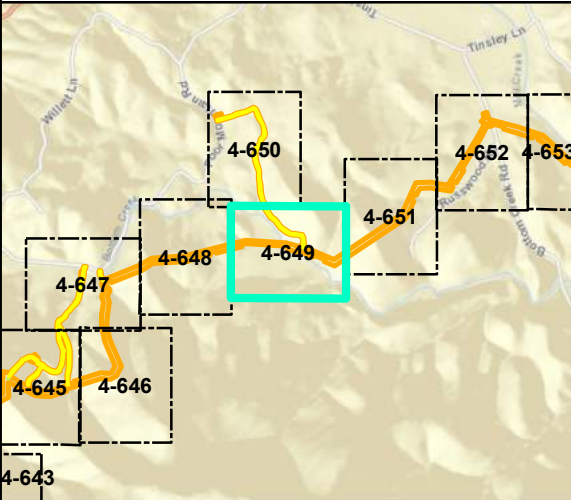
○ Milepost	▨ Pond
- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project



Detail Map
Individual Permit Application

Figure 4-649
Roanoke County, Virginia
November 2022

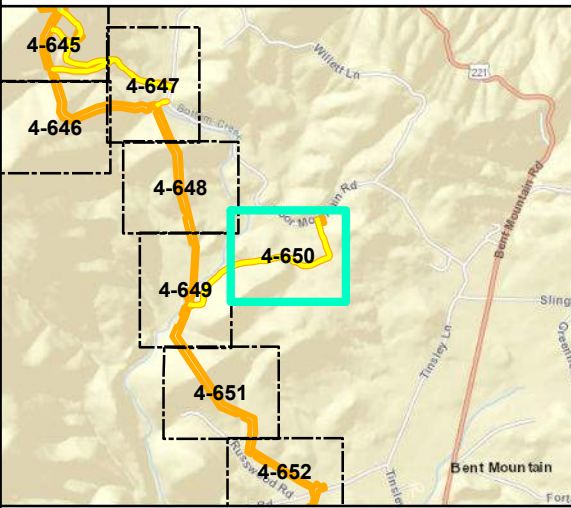
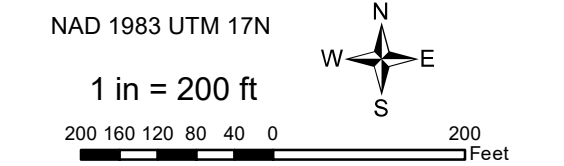
Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N



Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | ▨ Pond |
| - - - Alignment Centerline | Wetland |
| ▭ Access Road Temporary LOD | ▨ Palustrine Forested |
| ▭ Access Road Permanent LOD | ▨ Palustrine Emergent |
| ▭ Permanent Facility | ▨ Palustrine Scrub-Shrub |
| ▭ Limit of Disturbance | Stream Impact |
| ▭ Bore Pit | — Temporary |
| — Culvert | — Permanent |
| Stream | Wetland Impact |
| — Intermittent | ▨ Temporary |
| — Ephemeral | ▨ Conversion |
| — Perennial | ▨ Permanent Fill |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



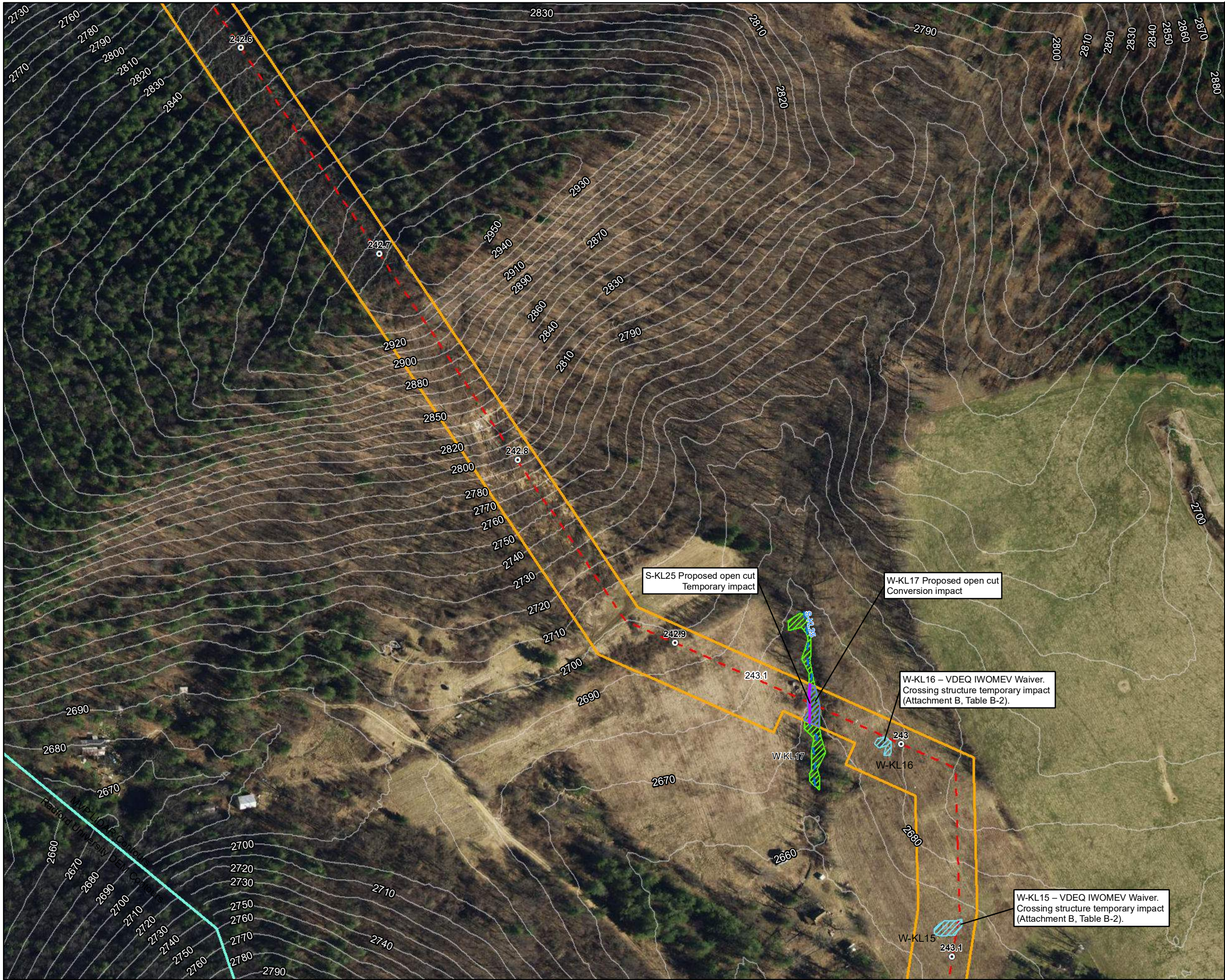
Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-650
Roanoke County, Virginia
November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N



Legend

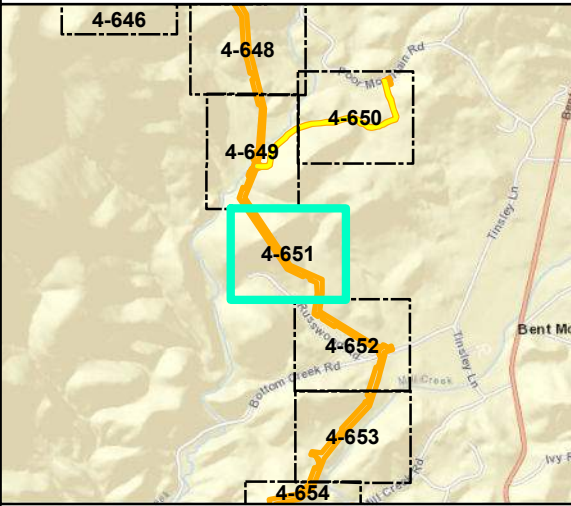
○ Milepost	▨ Pond
- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



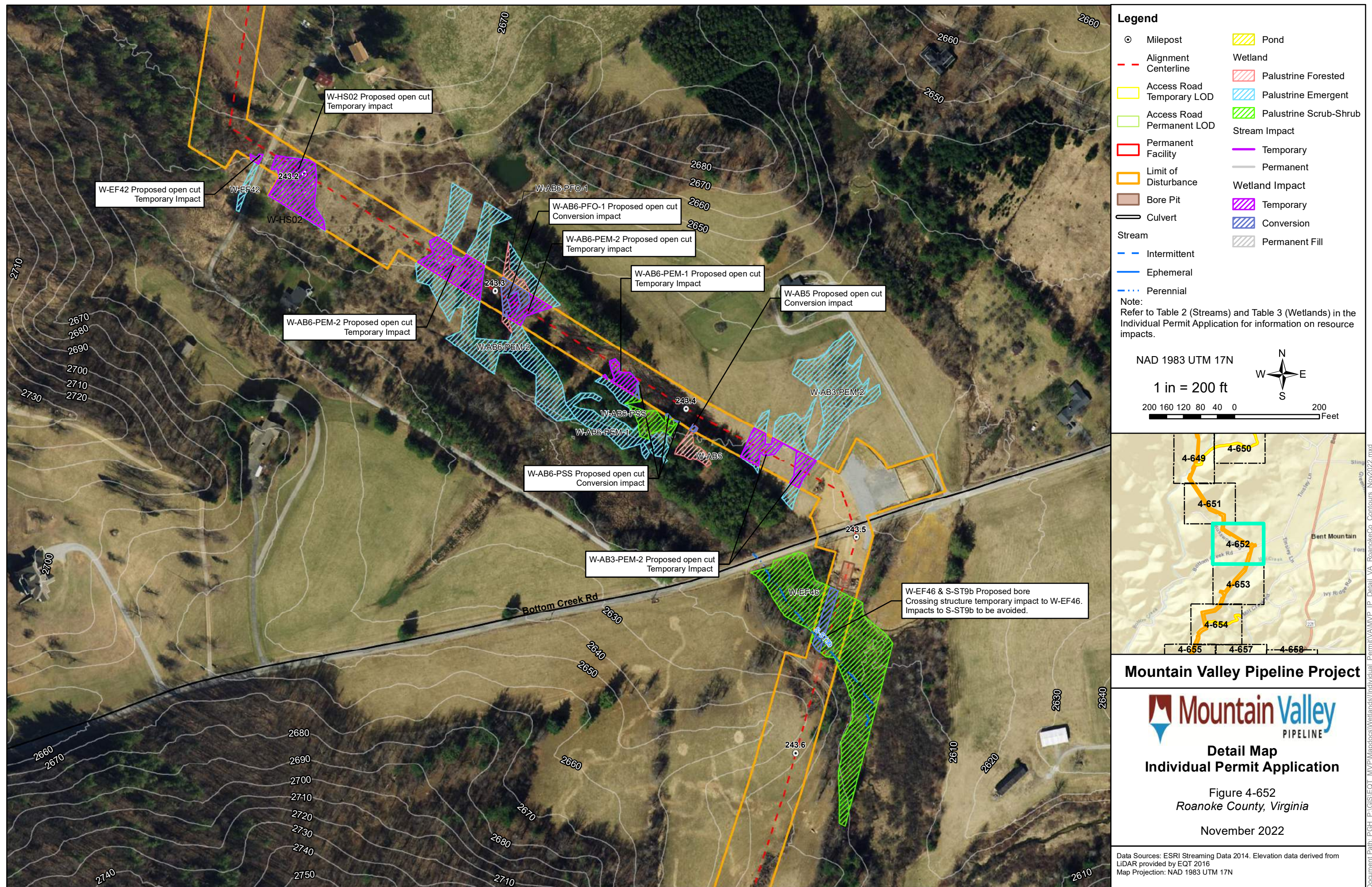
Mountain Valley Pipeline Project

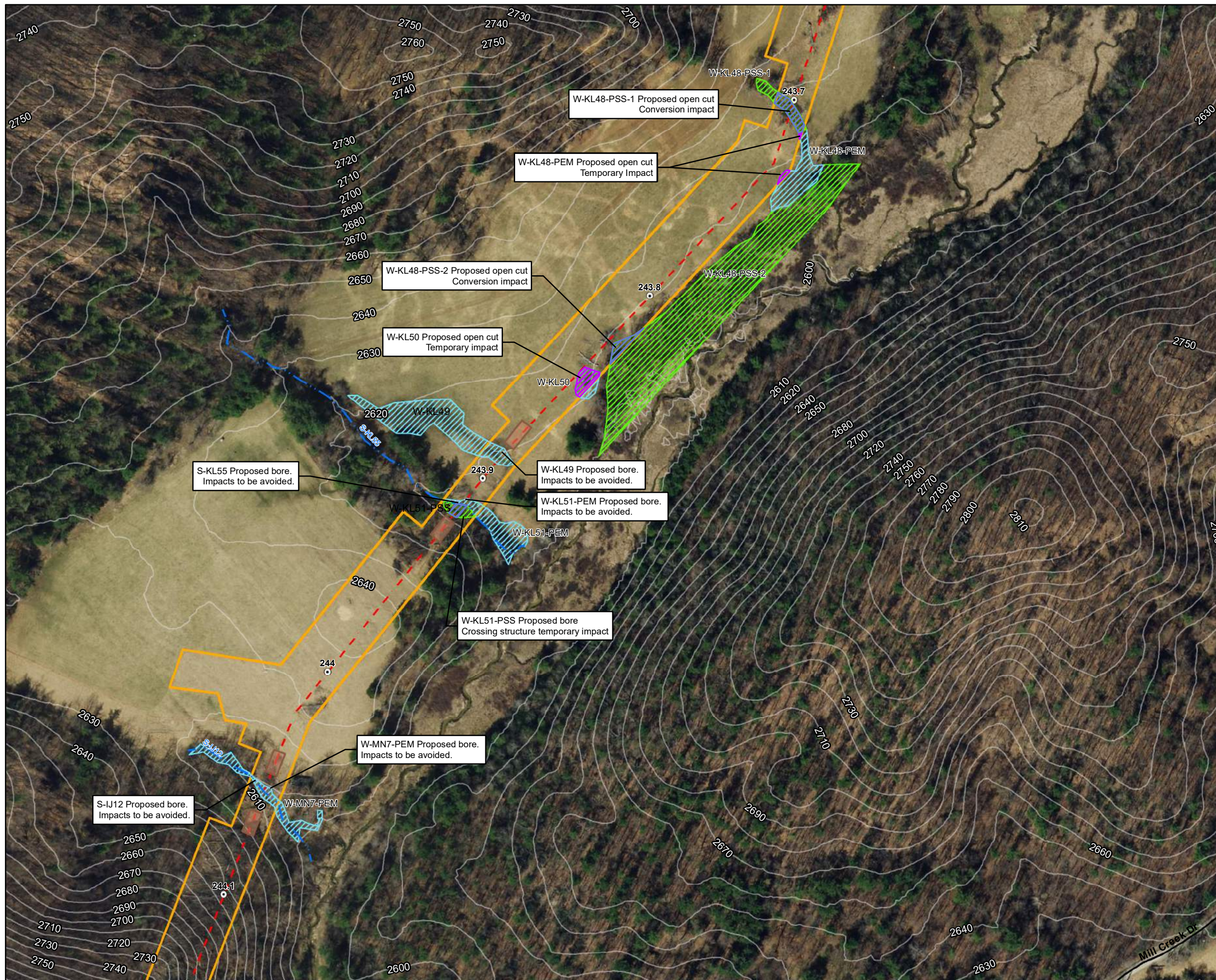
Mountain Valley
PIPELINE

Detail Map
Individual Permit Application

Figure 4-651
Roanoke County, Virginia
November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N





Legend

○ Milepost	▨ Pond
— Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet

Mountain Valley Pipeline Project

Detail Map Individual Permit Application

Figure 4-653
Roanoke County, Virginia

November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N



Legend

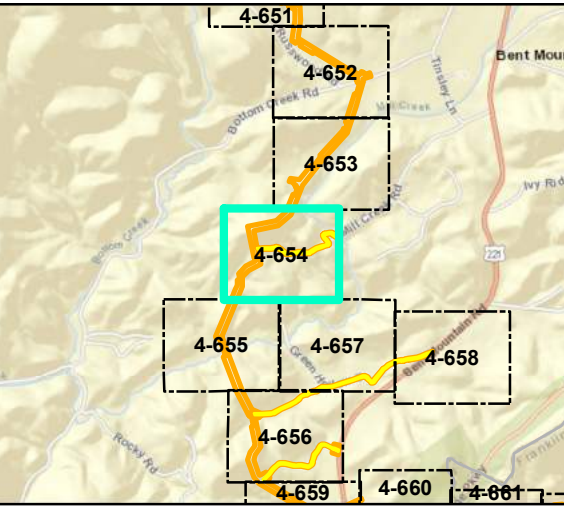
○ Milepost	▨ Pond
— Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-654
Roanoke County, Virginia

November 2022

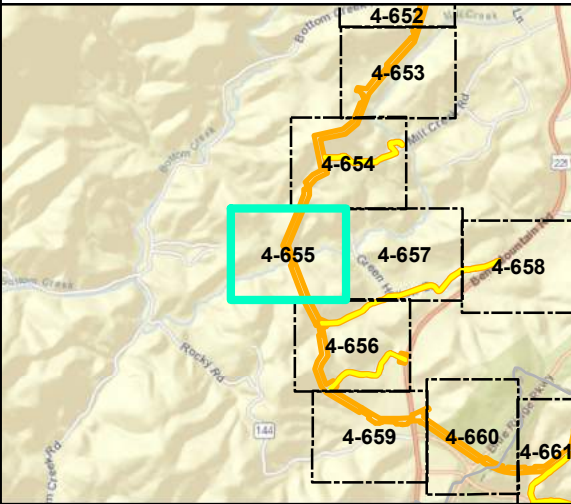
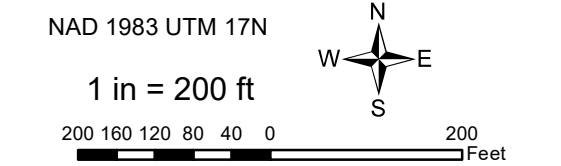
Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N



Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | ▨ Pond |
| - - - Alignment Centerline | Wetland |
| ▭ Access Road Temporary LOD | ▨ Palustrine Forested |
| ▭ Access Road Permanent LOD | ▨ Palustrine Emergent |
| ▭ Permanent Facility | ▨ Palustrine Scrub-Shrub |
| ▭ Limit of Disturbance | Stream Impact |
| ▭ Bore Pit | — Temporary |
| — Culvert | — Permanent |
| Stream | Wetland Impact |
| — Intermittent | ▨ Temporary |
| — Ephemeral | ▨ Conversion |
| — Perennial | ▨ Permanent Fill |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



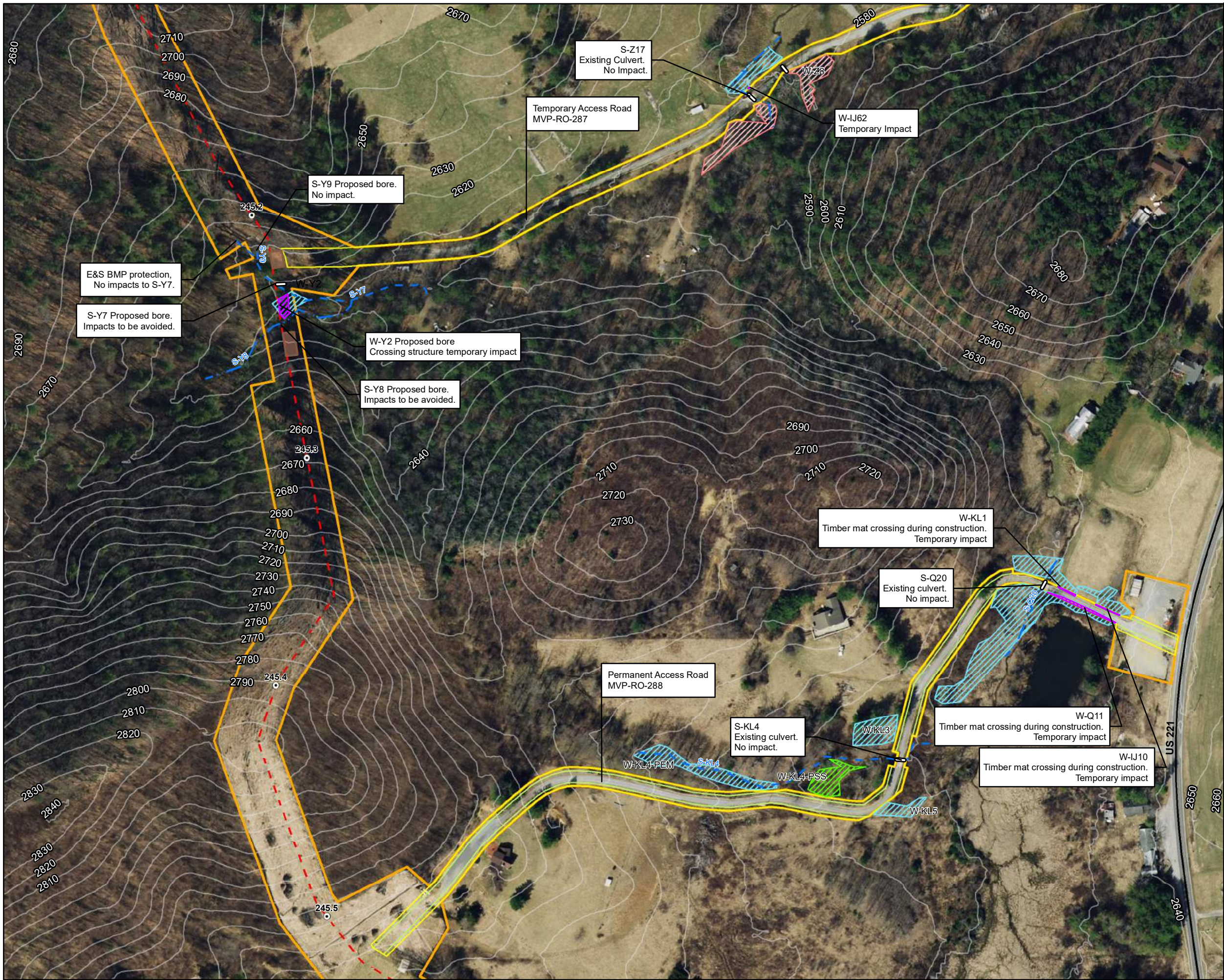
Mountain Valley Pipeline Project



Detail Map
Individual Permit Application

Figure 4-655
Roanoke County, Virginia
November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N



Legend

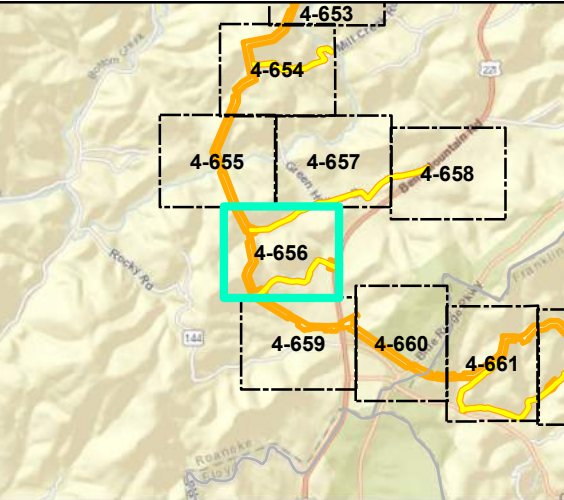
● Milepost	▨ Pond
- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
▭ Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-656
Roanoke County, Virginia
November 2022

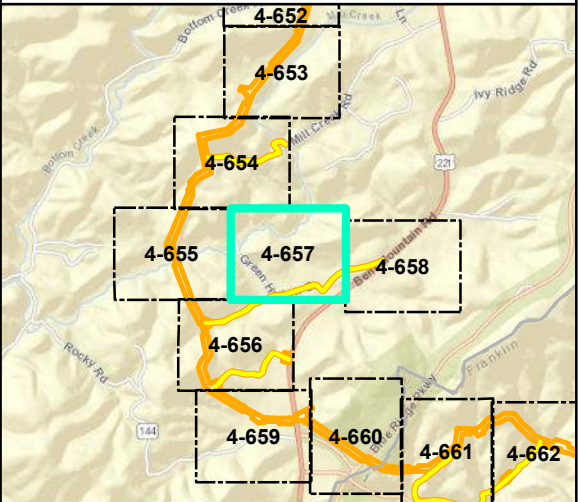
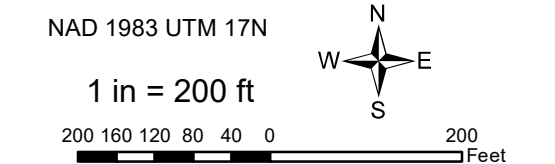
Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N



Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | ▨ Pond |
| - - - Alignment Centerline | Wetland |
| ▭ Access Road Temporary LOD | ▨ Palustrine Forested |
| ▭ Access Road Permanent LOD | ▨ Palustrine Emergent |
| ▭ Permanent Facility | ▨ Palustrine Scrub-Shrub |
| ▭ Limit of Disturbance | Stream Impact |
| ▭ Bore Pit | — Temporary |
| ▭ Culvert | — Permanent |
| Stream | Wetland Impact |
| — Intermittent | ▨ Temporary |
| — Ephemeral | ▨ Conversion |
| — Perennial | ▨ Permanent Fill |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-657
Roanoke County, Virginia

November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N



Legend

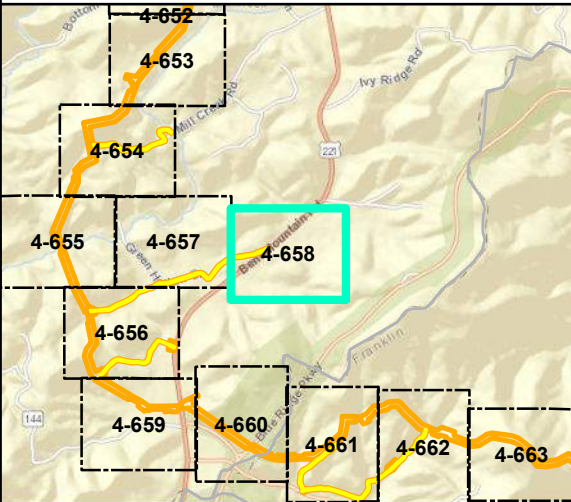
○ Milepost	▨ Pond
— Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



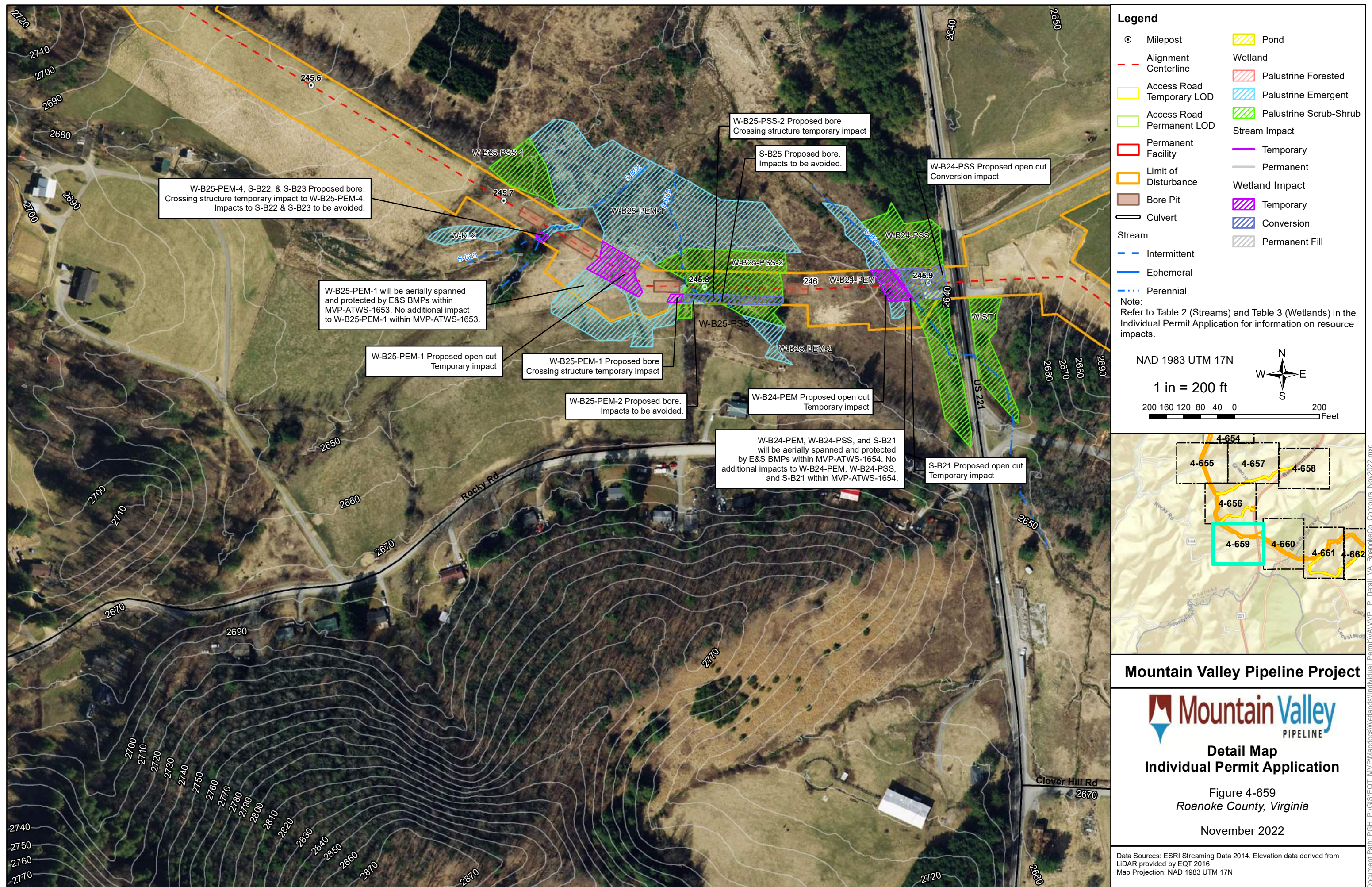
Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-658
Roanoke County, Virginia
November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N





Legend

Milepost

Alignment Centerline

Access Road Temporary LOD

Access Road Permanent LOD

Permanent Facility

Limit of Disturbance

Bore Pit

Culvert

Intermittent

Ephemeral

Perennial

Pond

Palustrine Forested

Palustrine Emergent

Palustrine Scrub-Shrub

Temporary

Permanent

Temporary

Conversion

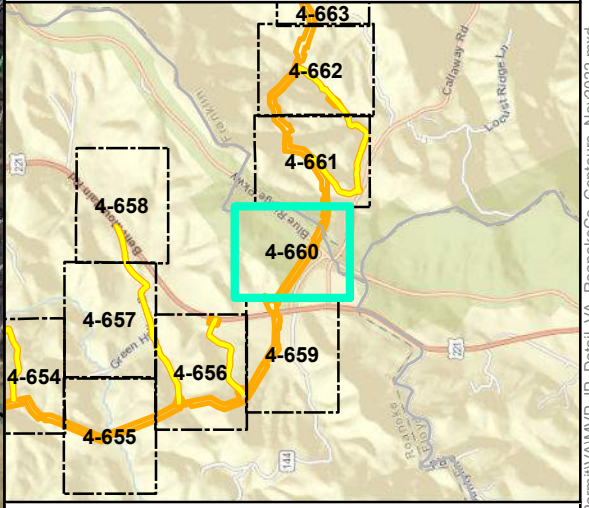
Permanent Fill

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-660
Roanoke County, Virginia
November 2022

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N