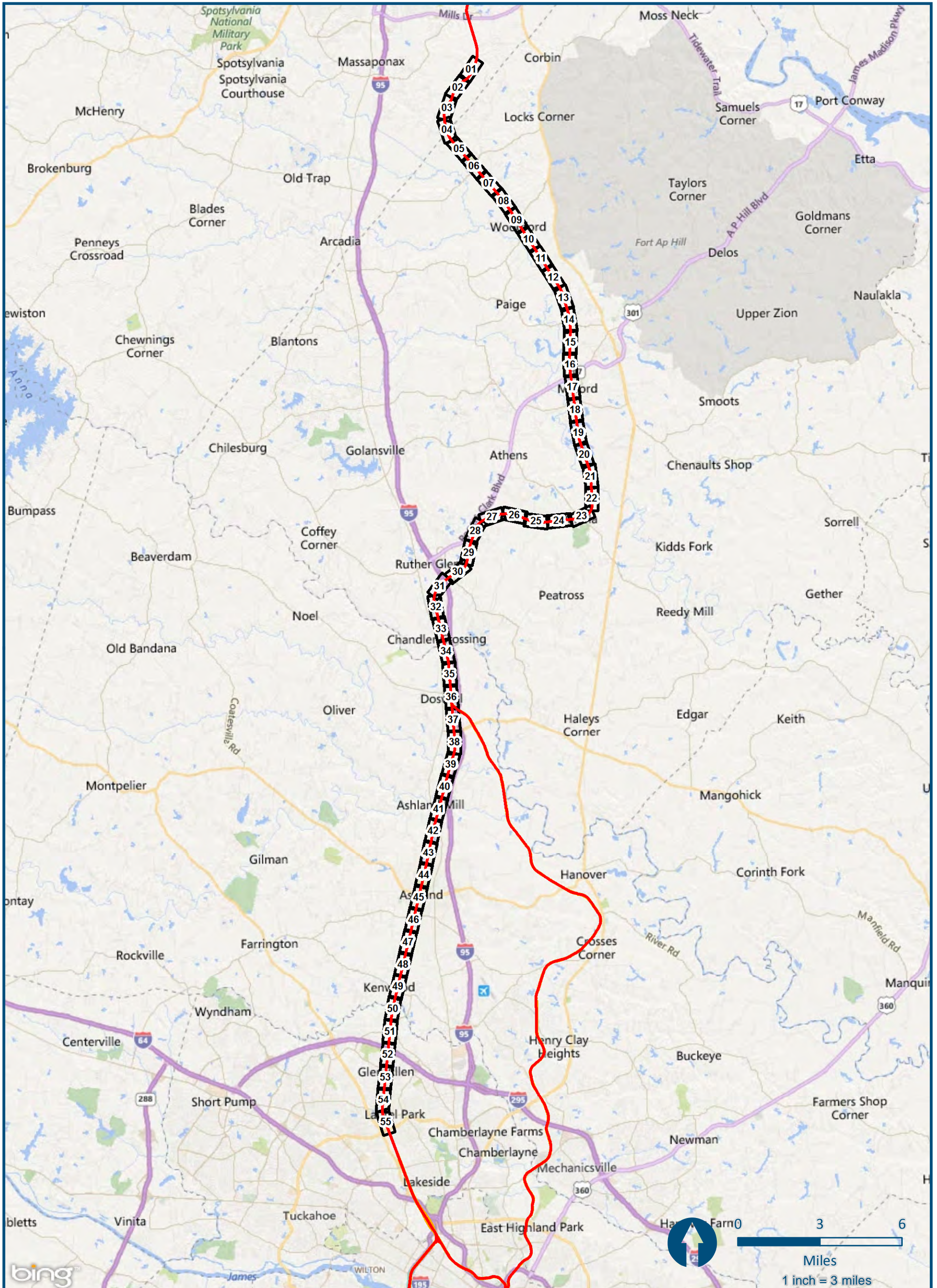
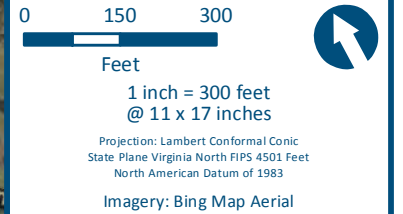
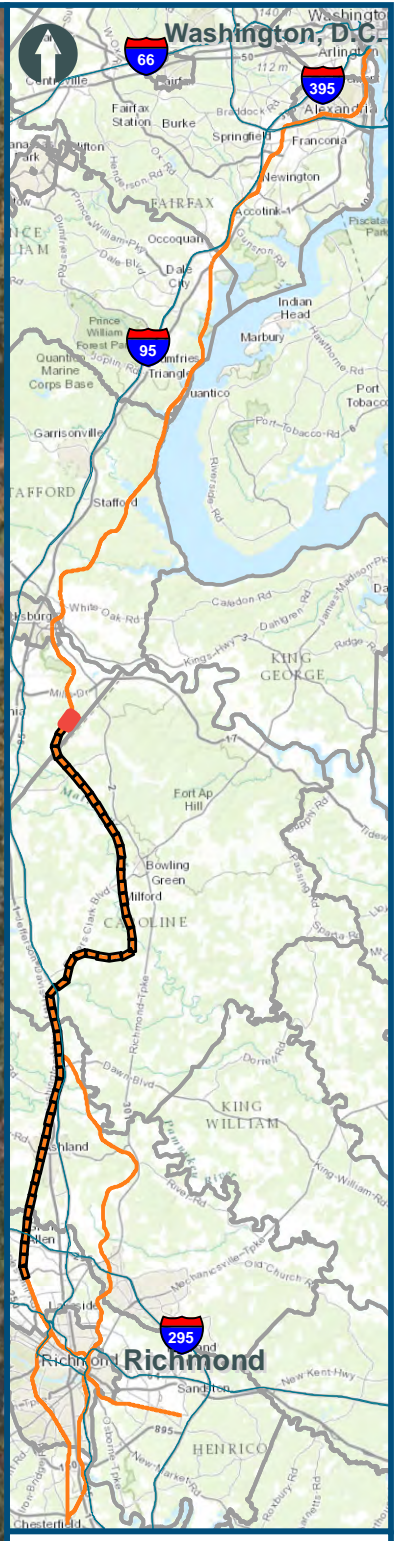
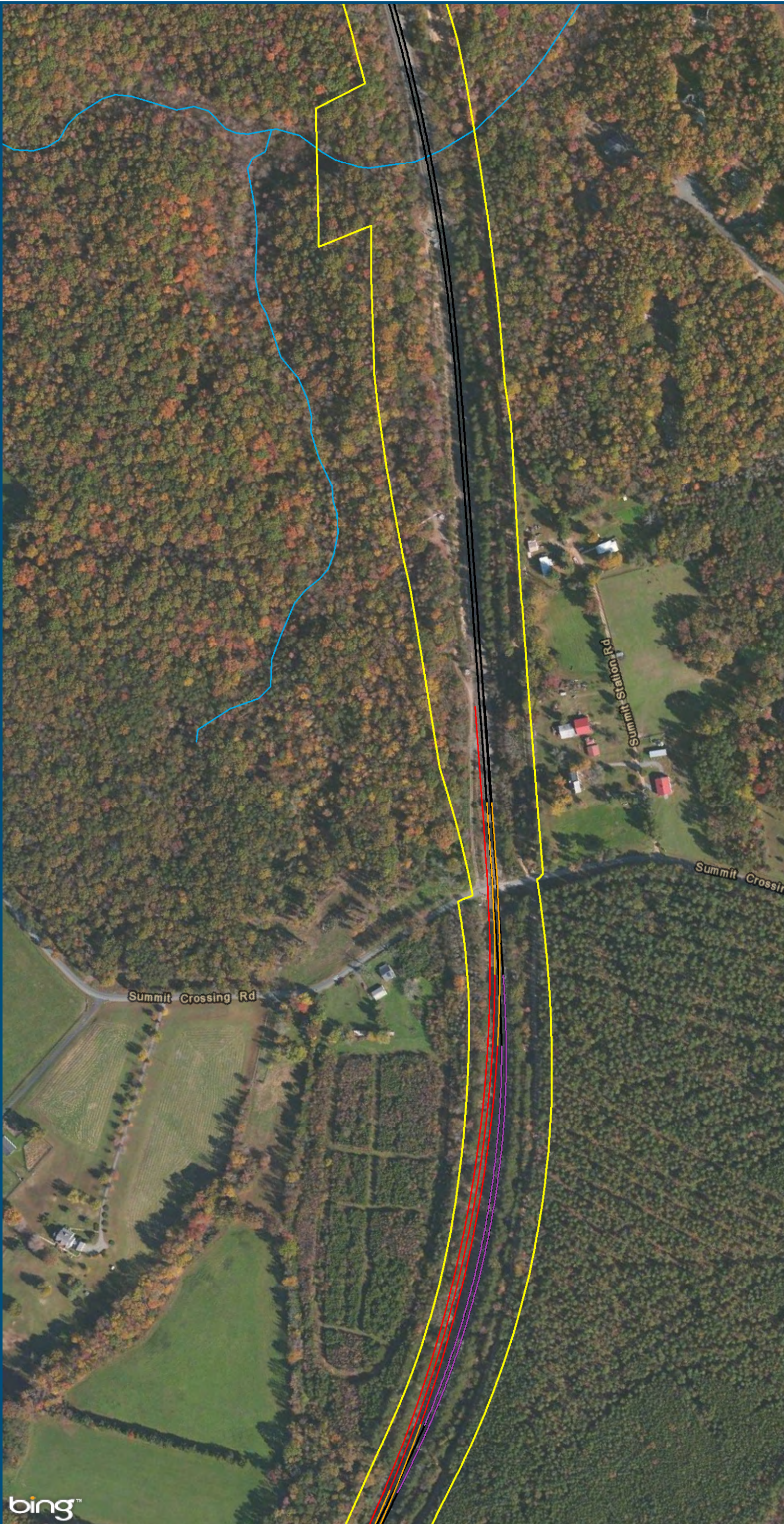


Central Virginia (CEN) Project Section Optimized Alignment Option Index Map



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





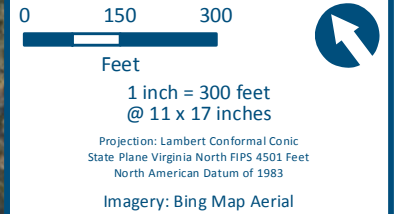
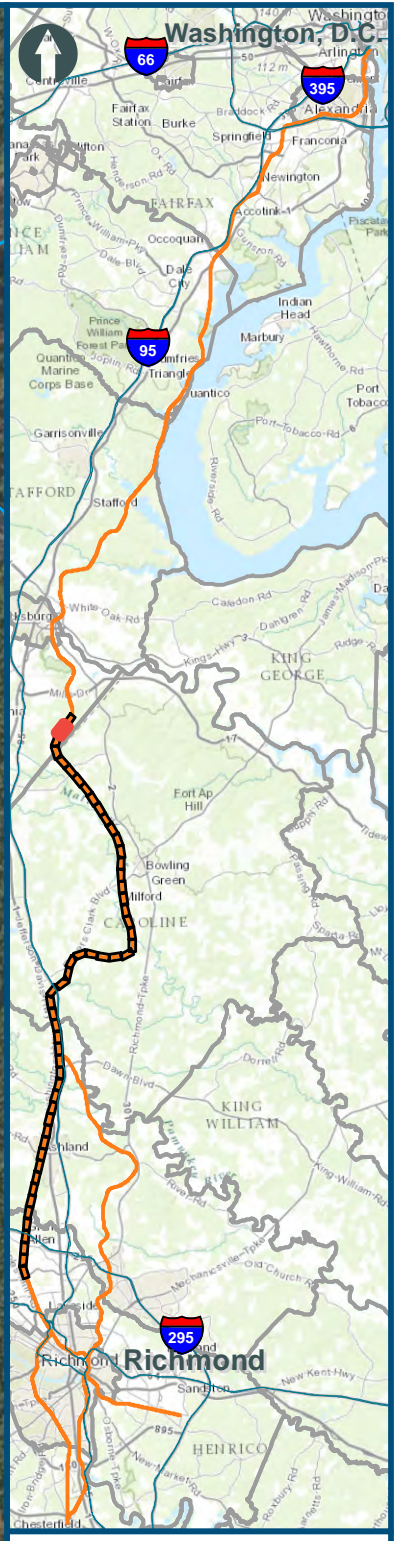
- Legend**
-  CSXT Mileposts
 -  Existing Track
 -  New Track
 -  Shift Track
 -  Remove Track
 -  CSXT Right-of-Way
 -  Streams

Figure V-1
Central Virginia
Optimized
Alignment Option

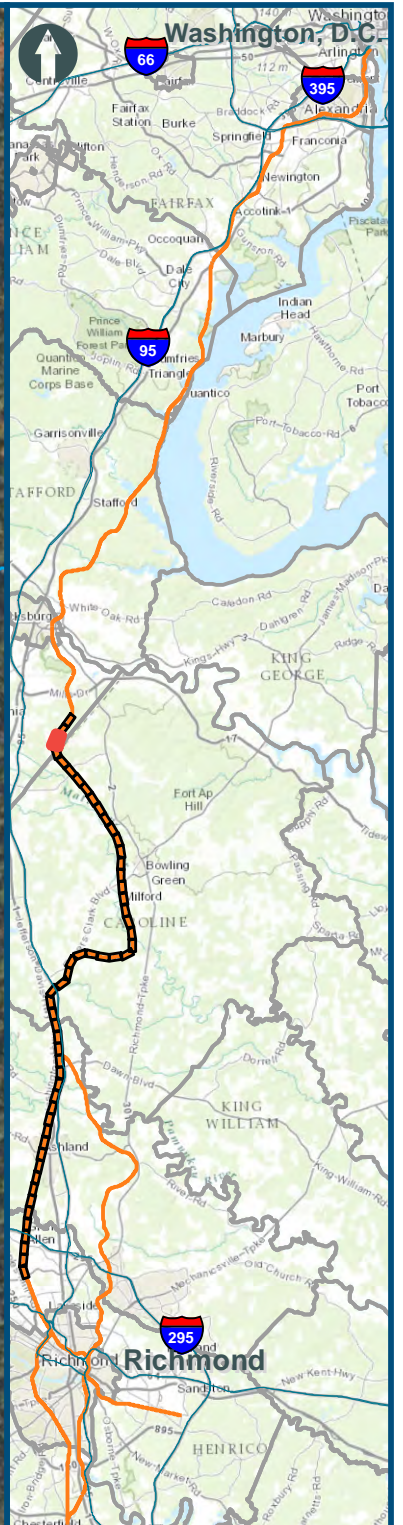
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-2
Central Virginia
Optimized
Alignment Option

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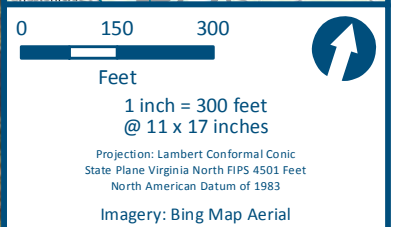
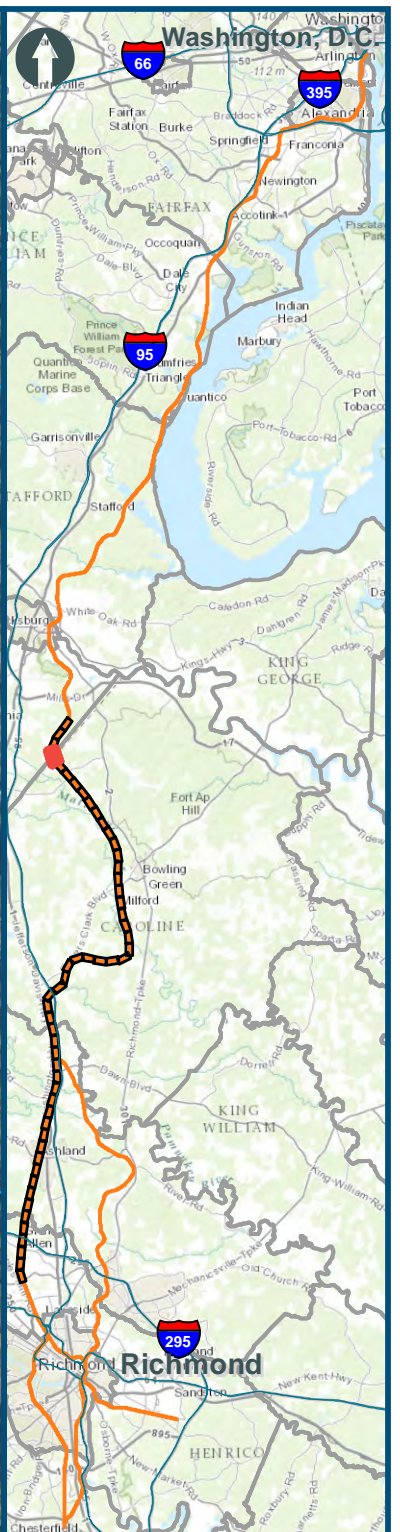
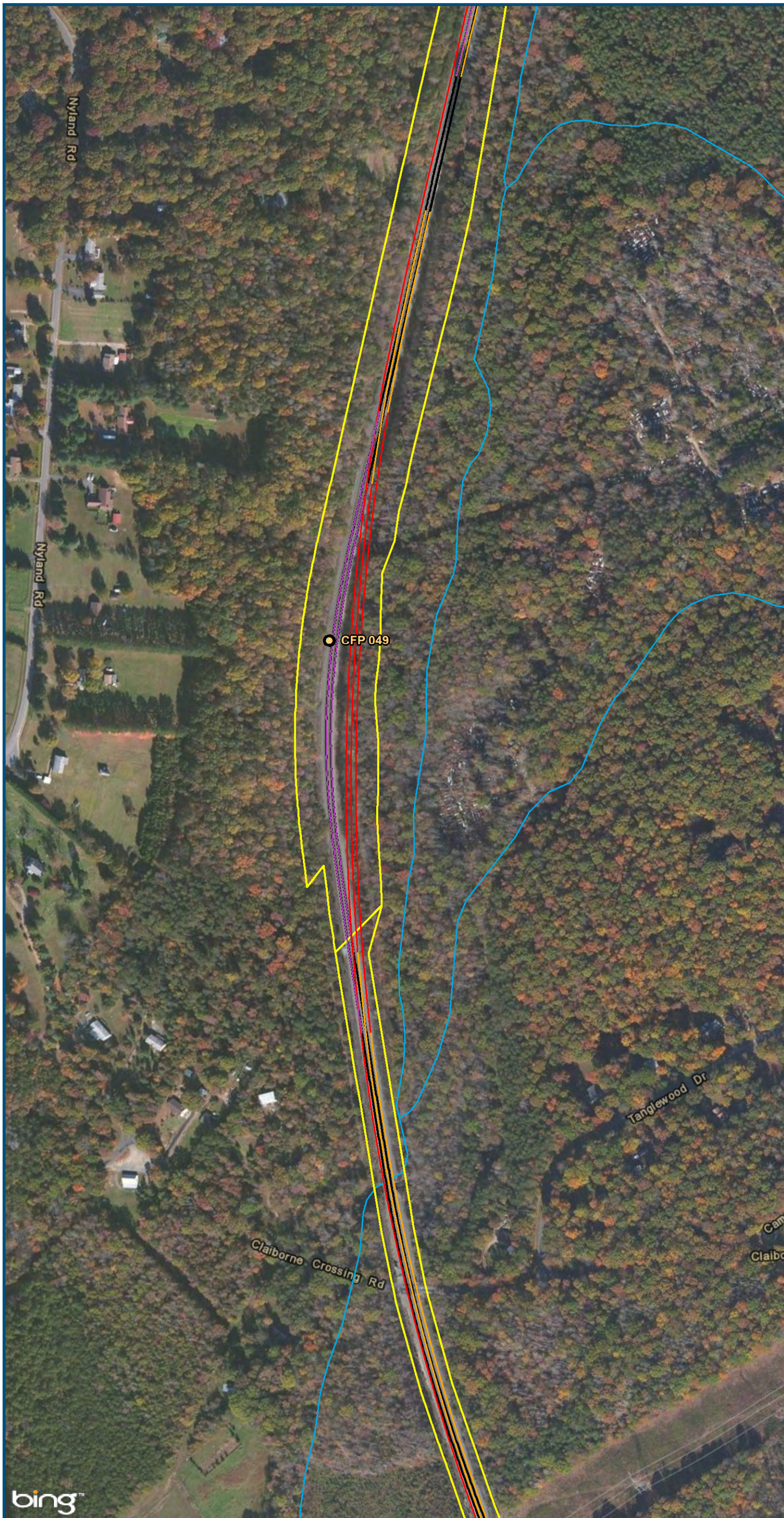
- Legend**
-  CSXT Mileposts
 -  Existing Track
 -  New Track
 -  Shift Track
 -  Remove Track
 -  CSXT Right-of-Way
 -  Streams

Figure V-3
Central Virginia
Optimized
Alignment Option

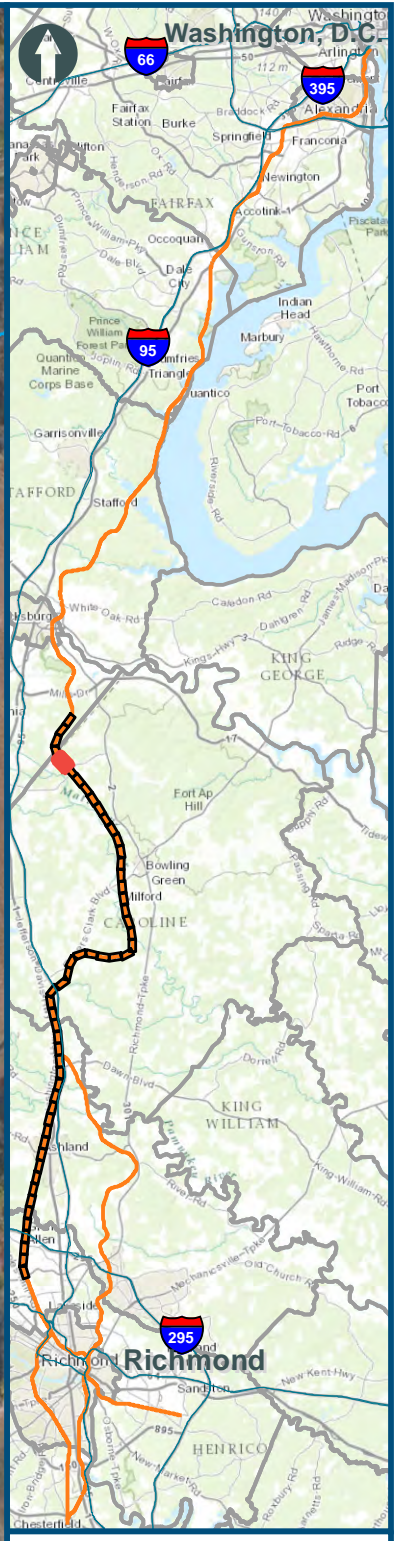
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

**Figure V-4
Central Virginia
Optimized
Alignment Option**

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0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- Existing Track
- New Track
- Shift Track
- Remove Track
- CSXT Right-of-Way
- Streams

Figure V-5
Central Virginia
Optimized
Alignment Option

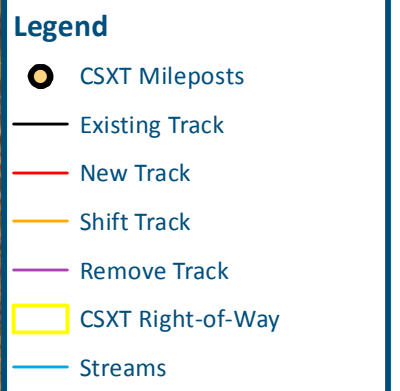
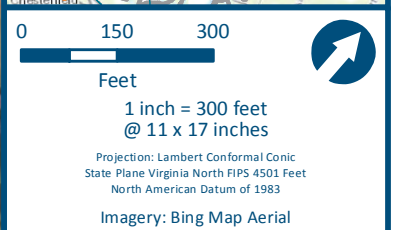
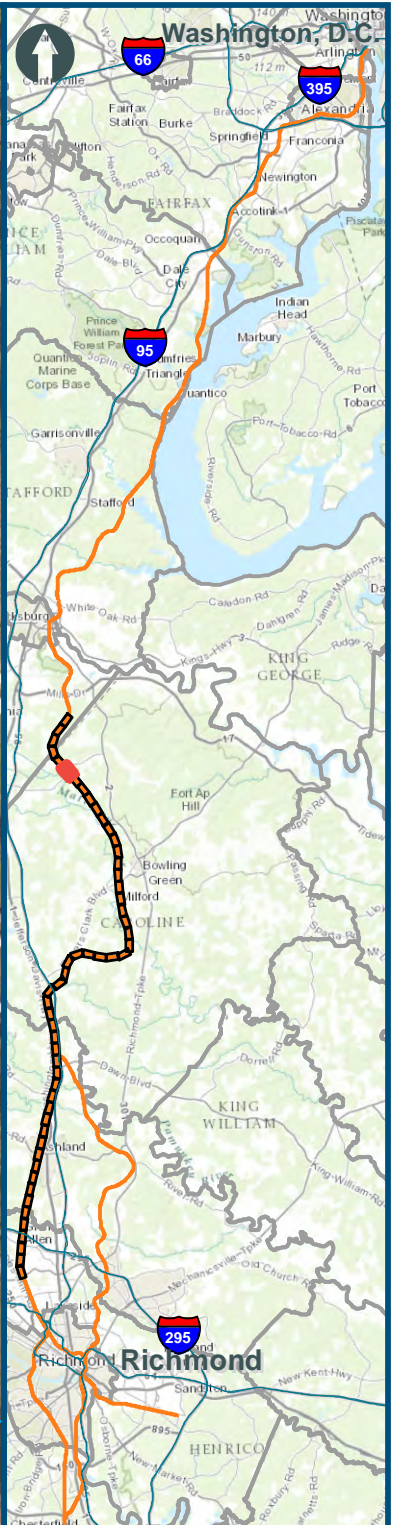
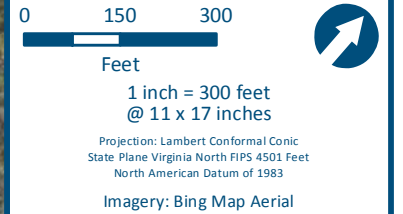
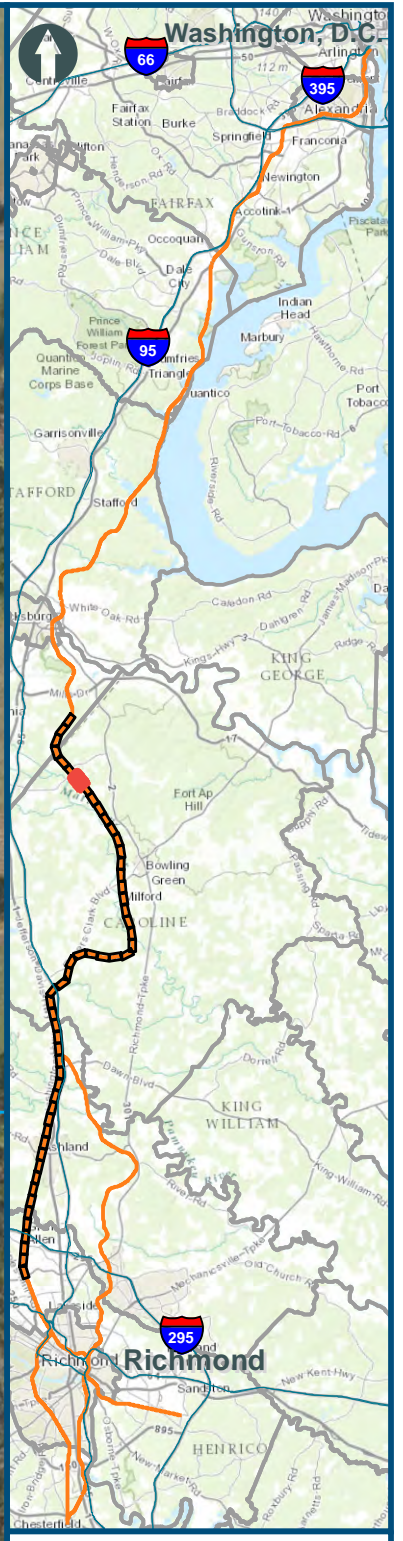


Figure V-6
Central Virginia
Optimized
Alignment Option

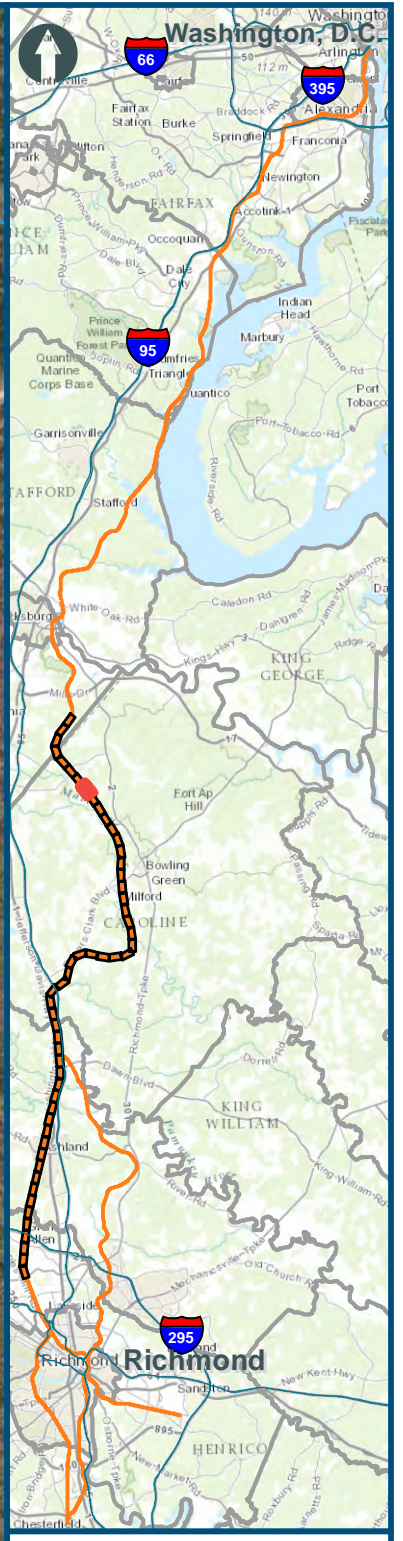
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-7
Central Virginia
Optimized
Alignment Option

\\dlismain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-Public\Transportation\0239056_RAPS-4\AIDev-Concept\Eng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Chr6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.02.2015



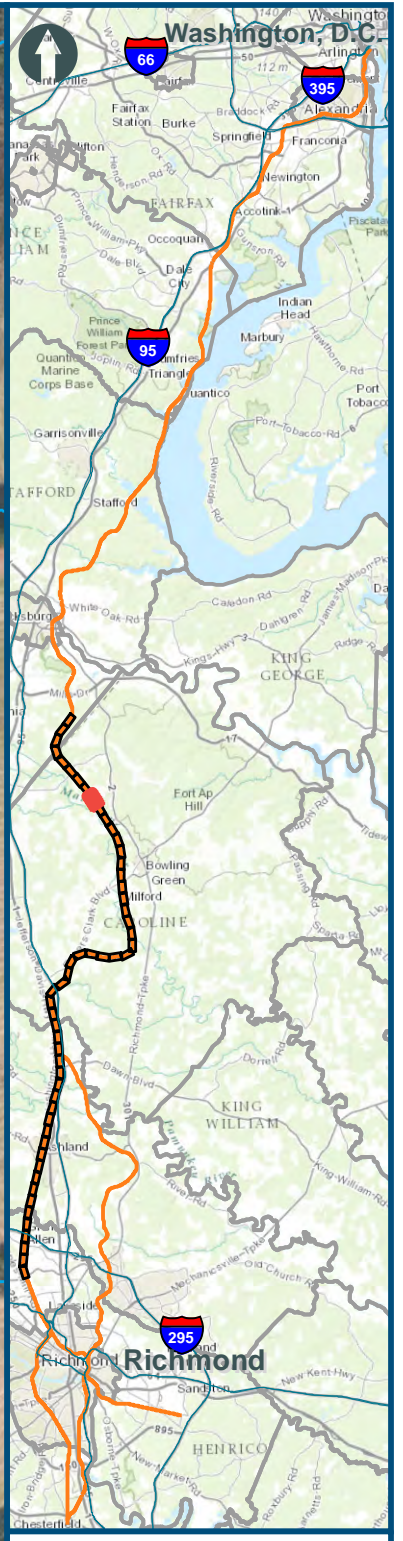
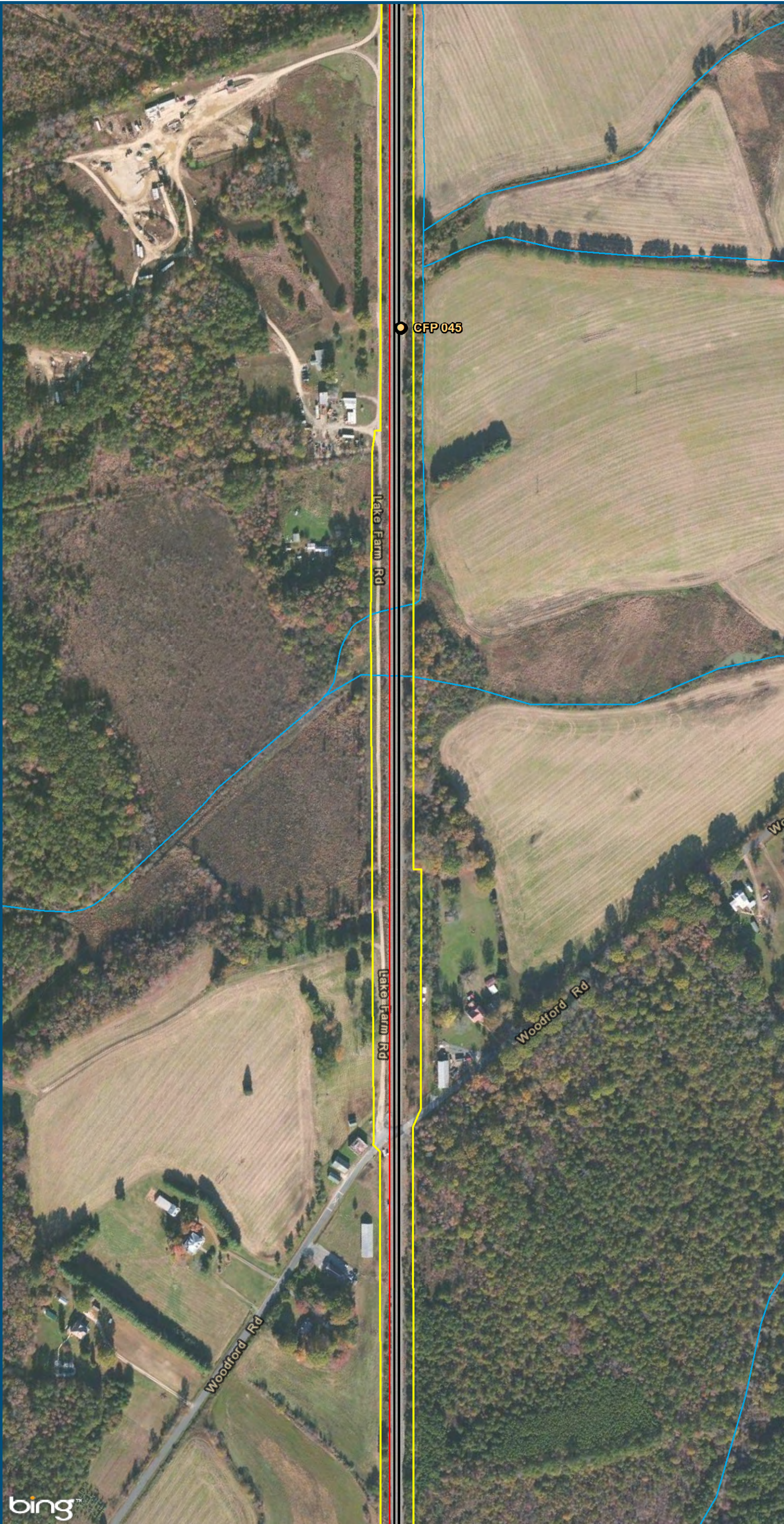
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Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- Existing Track
- New Track
- Shift Track
- Remove Track
- CSXT Right-of-Way
- Streams

Figure V-8
Central Virginia
Optimized
Alignment Option

\\dlismain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AIIDev-Concept\Eng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Chr6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.02.2015

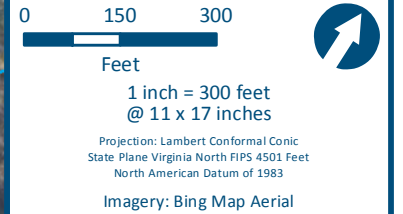
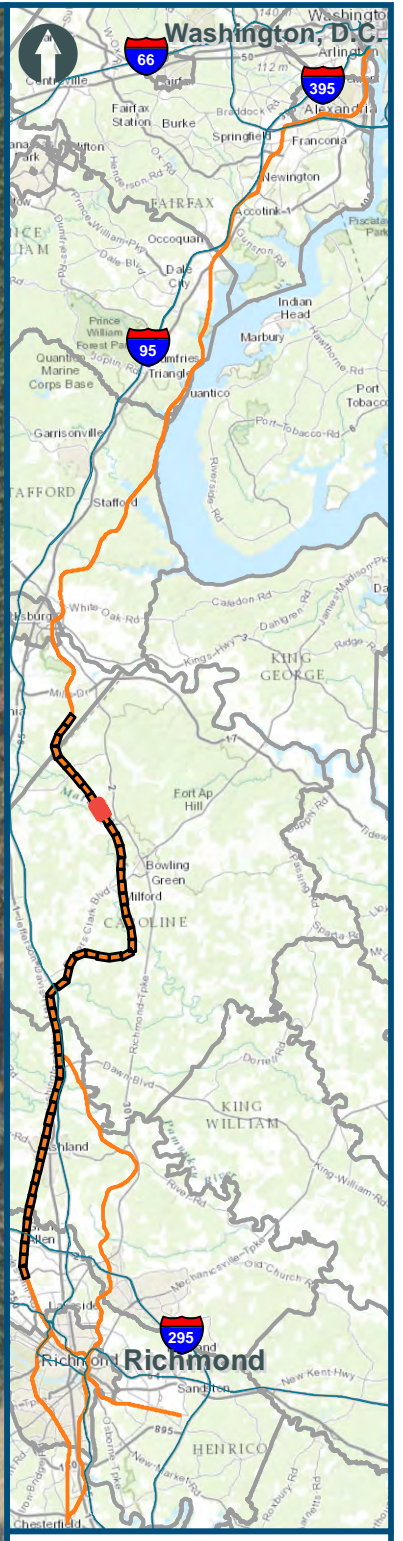


0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-9
Central Virginia
Optimized
Alignment Option

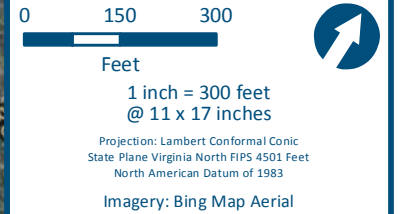
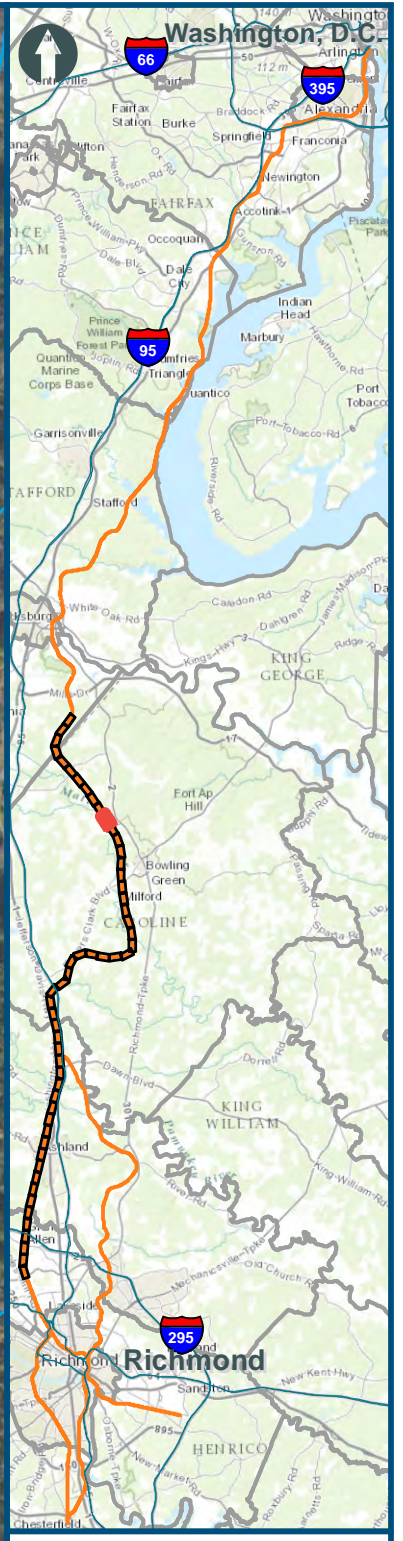
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-10
Central Virginia
Optimized
Alignment Option

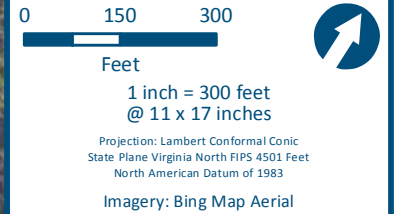
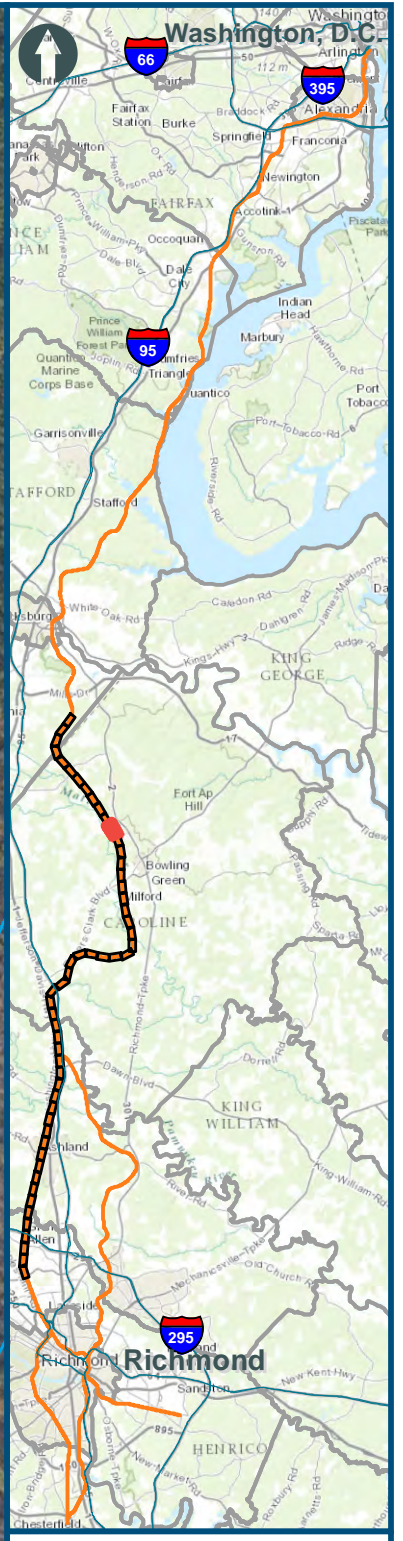
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-11
Central Virginia
Optimized
Alignment Option

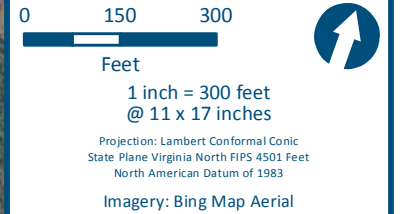
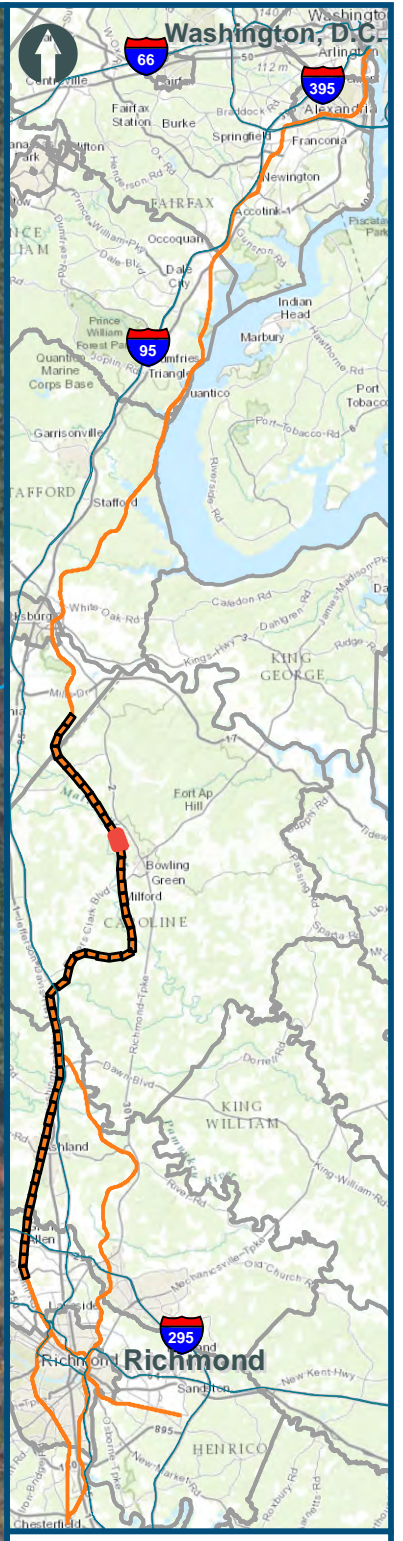
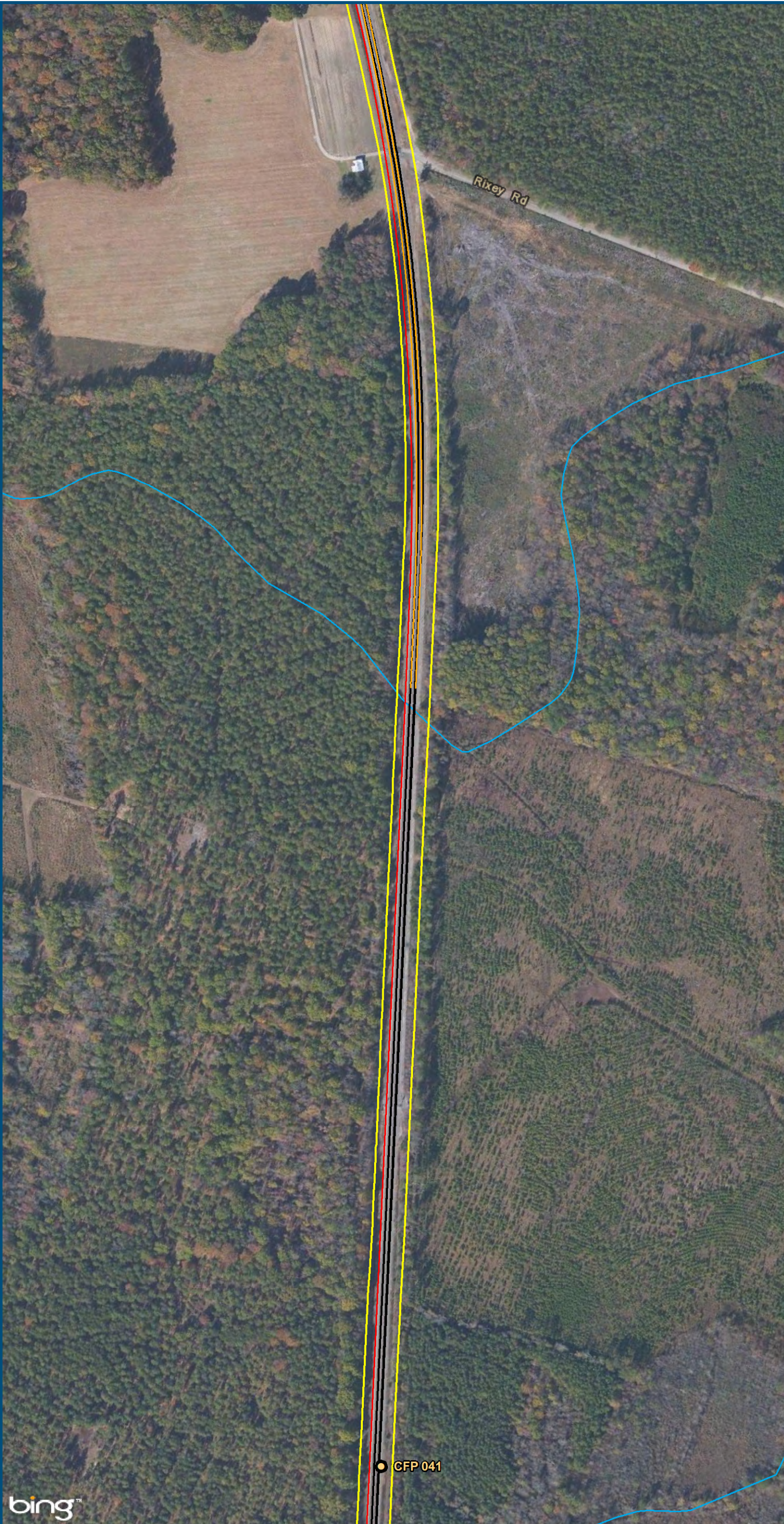
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-12
Central Virginia
Optimized
Alignment Option

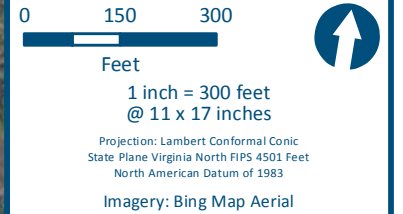
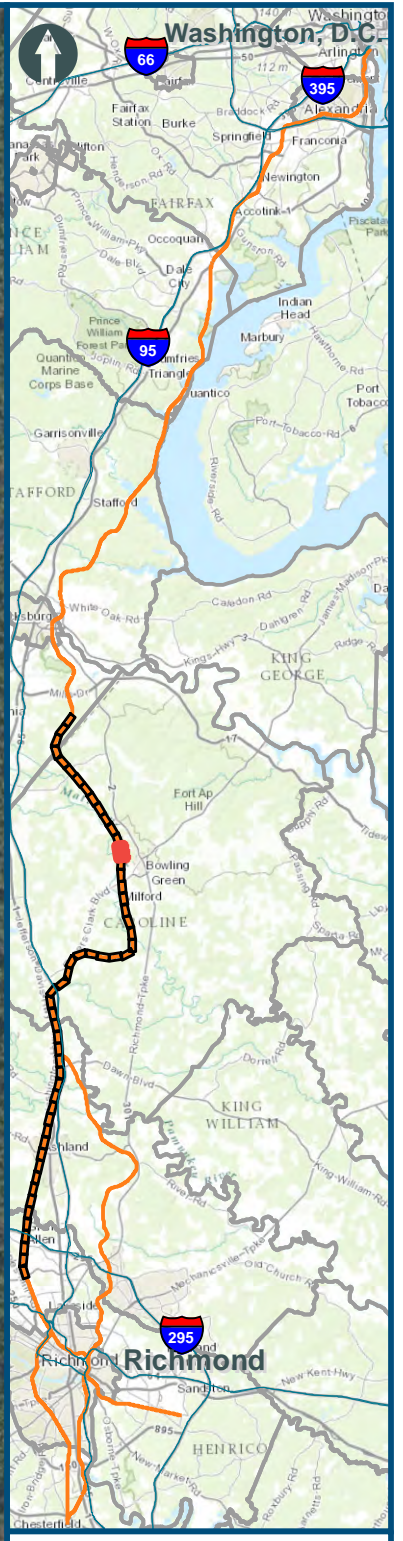
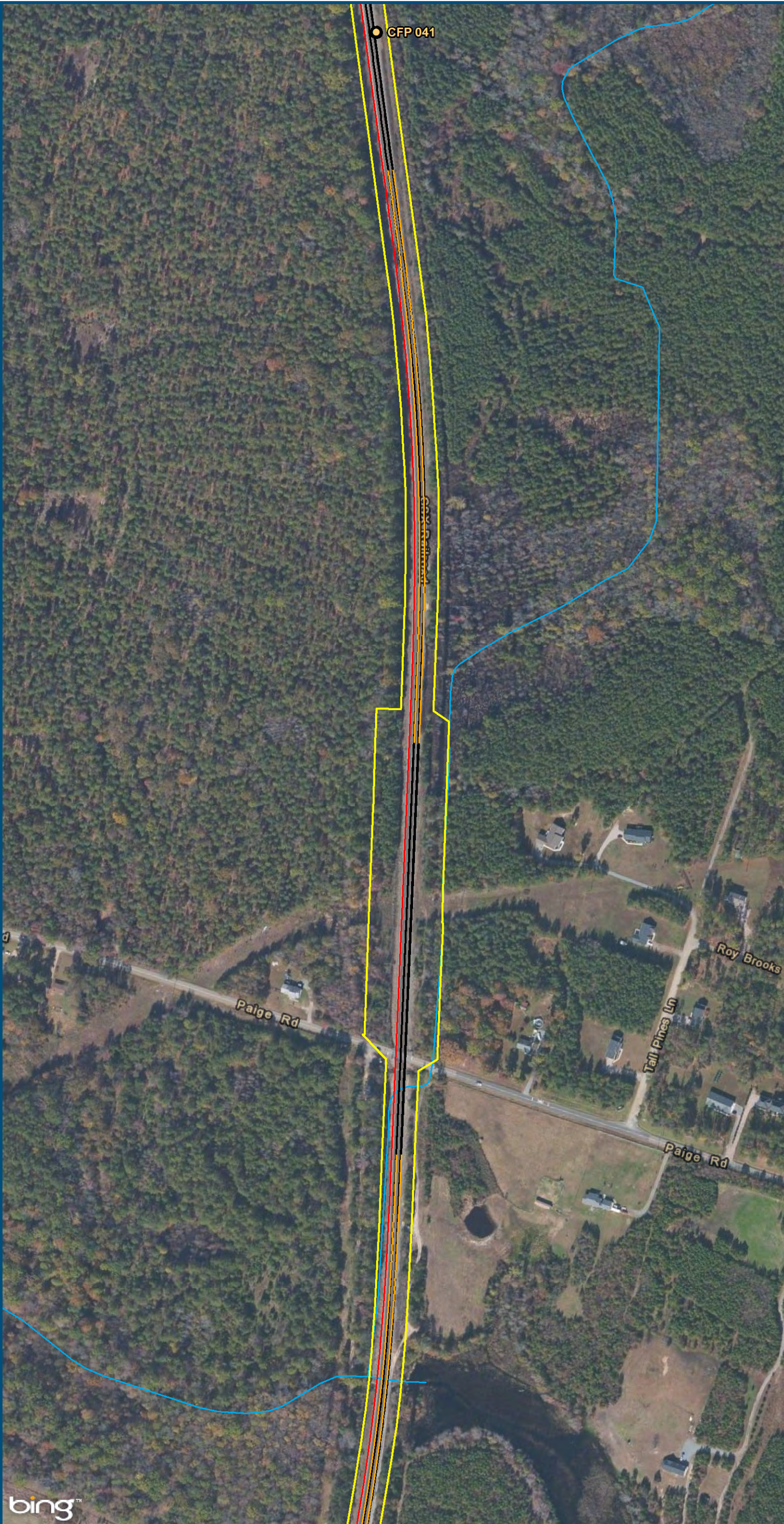
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-13
Central Virginia
Optimized
Alignment Option

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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

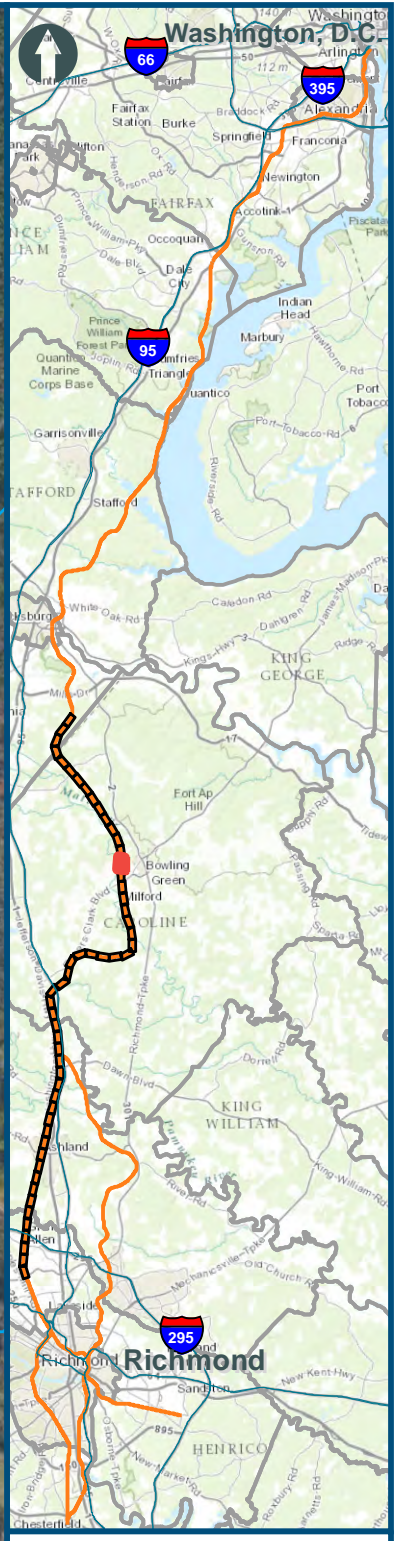
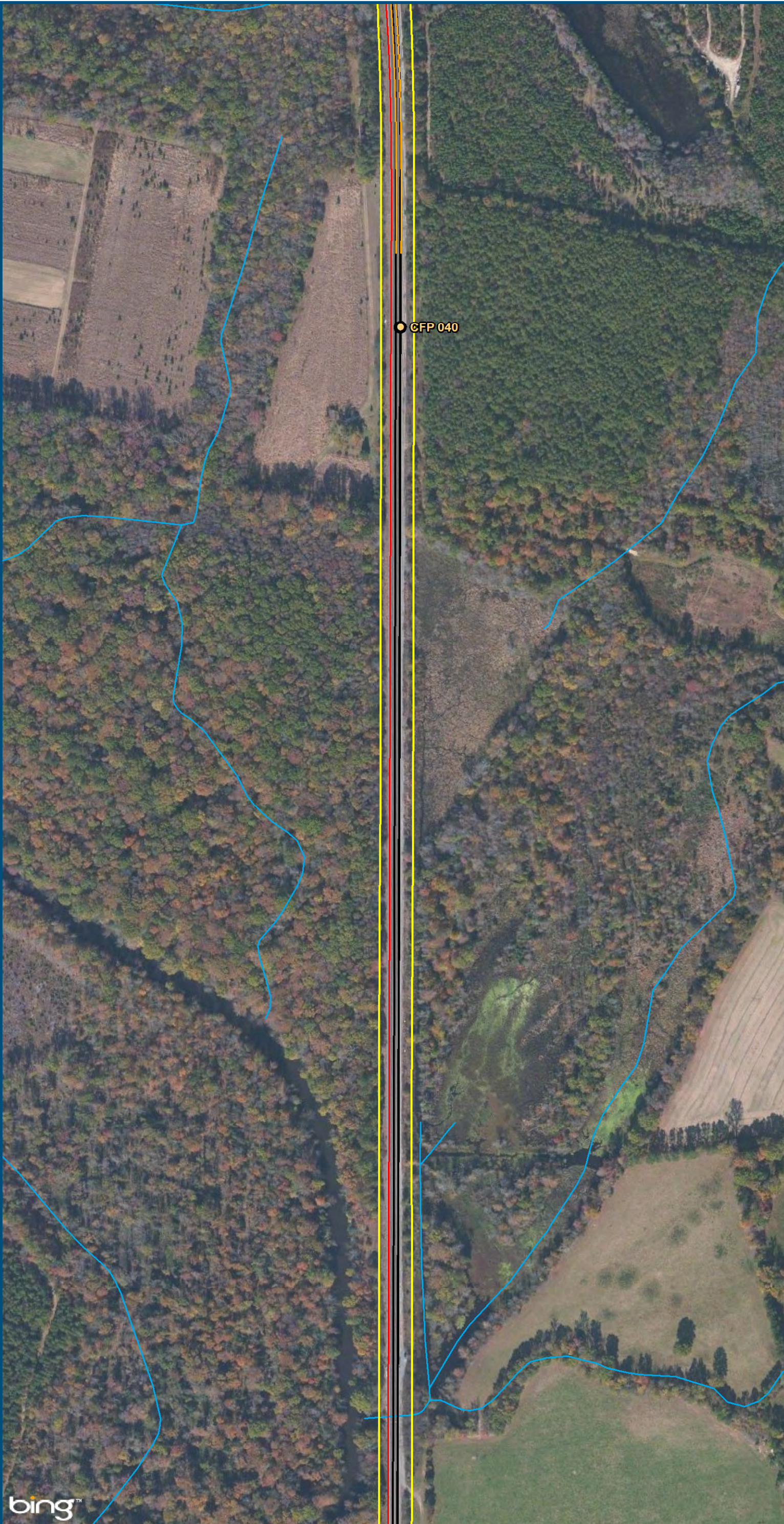
Figure V-14
Central Virginia
Optimized
Alignment Option



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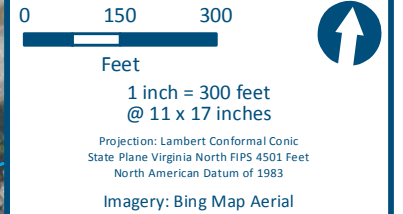
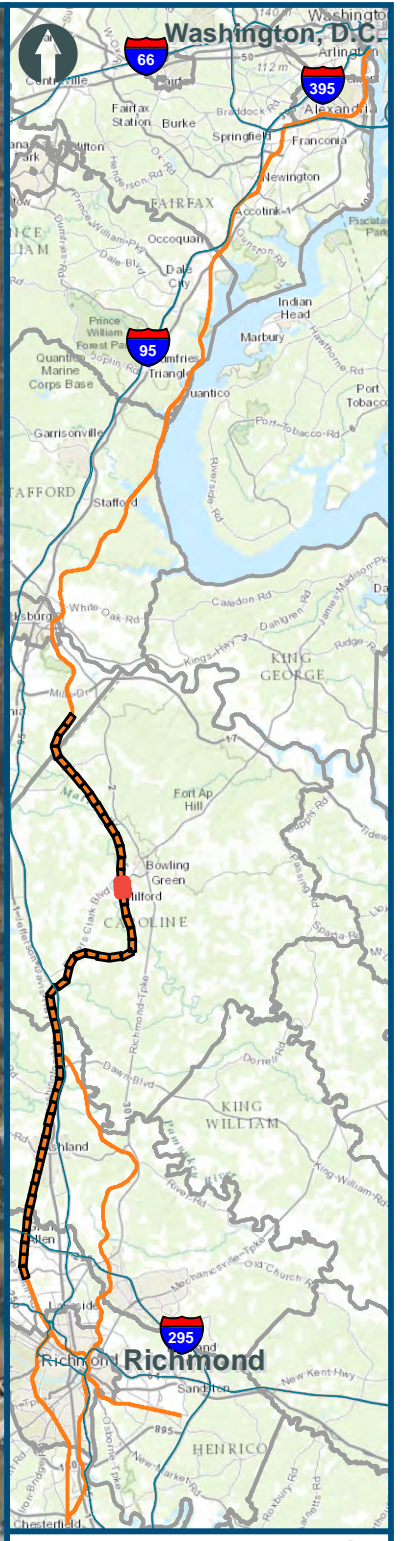


0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-15
Central Virginia
Optimized
Alignment Option

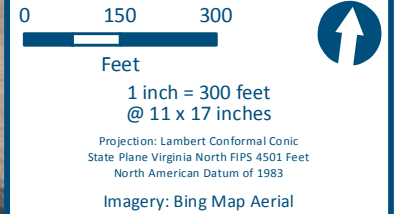
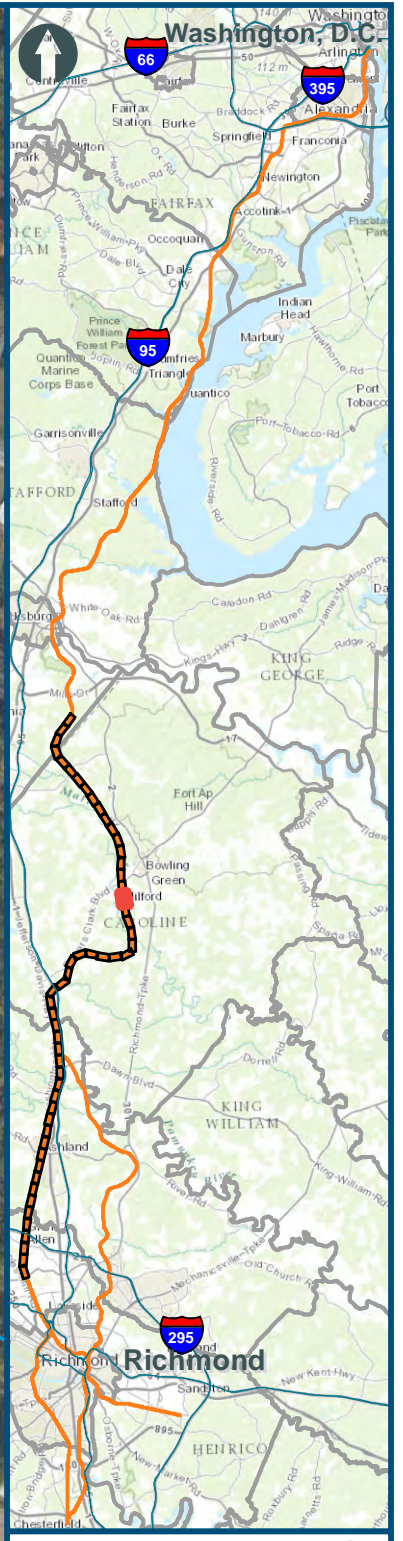
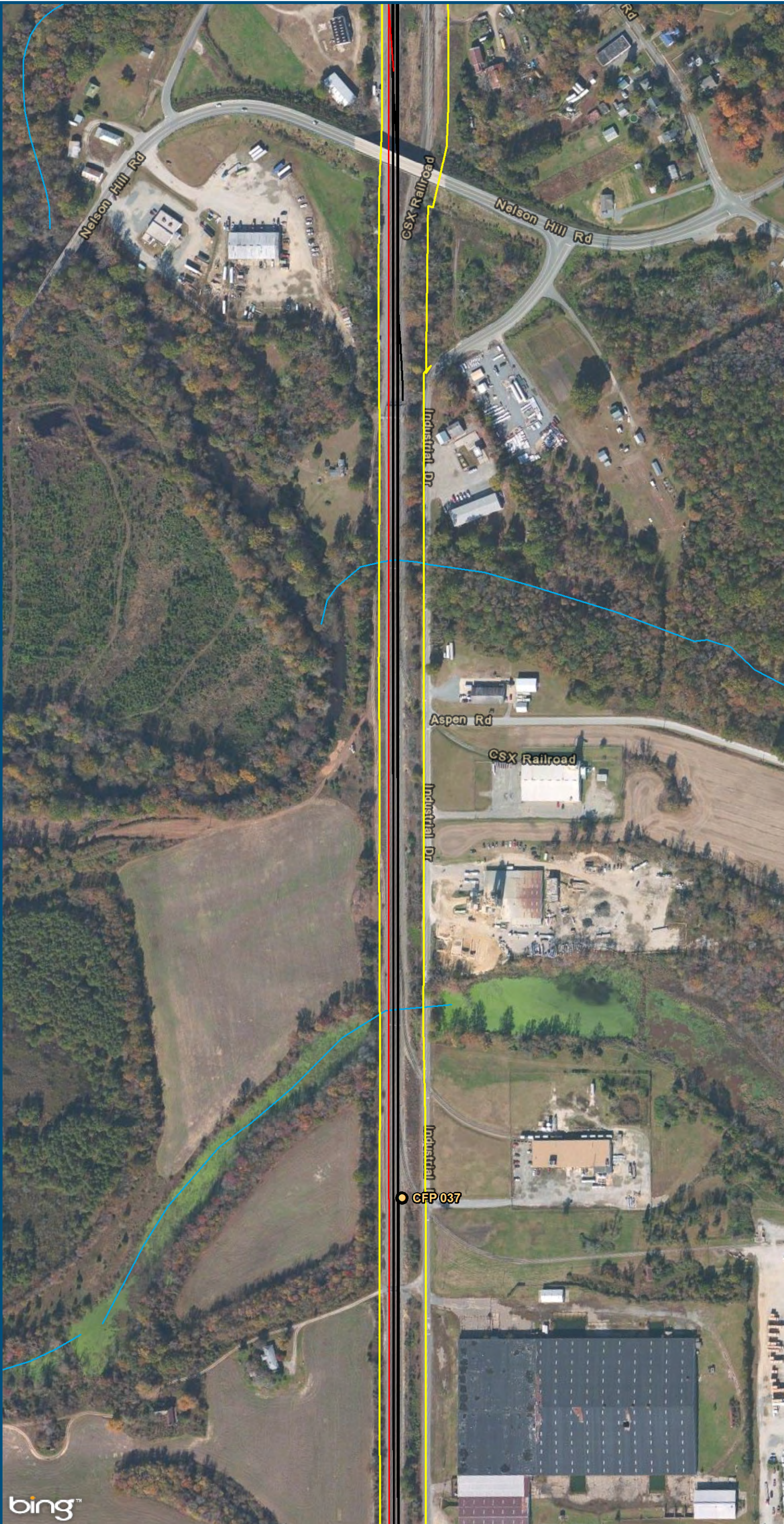
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

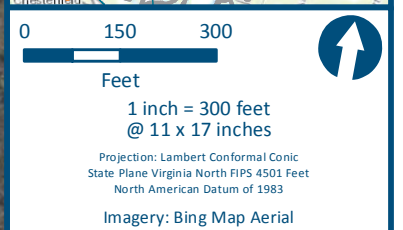
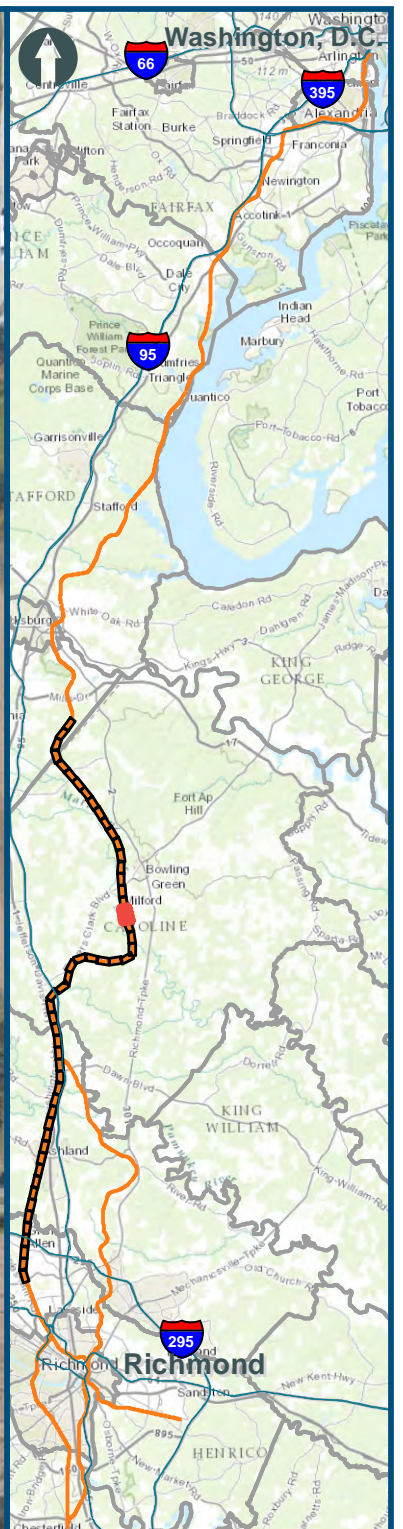
Figure V-17
Central Virginia
Optimized
Alignment Option

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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-18
Central Virginia
Optimized
Alignment Option

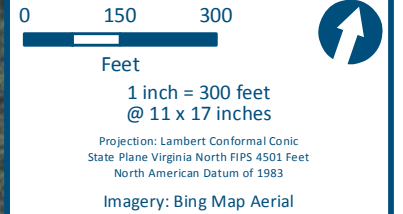
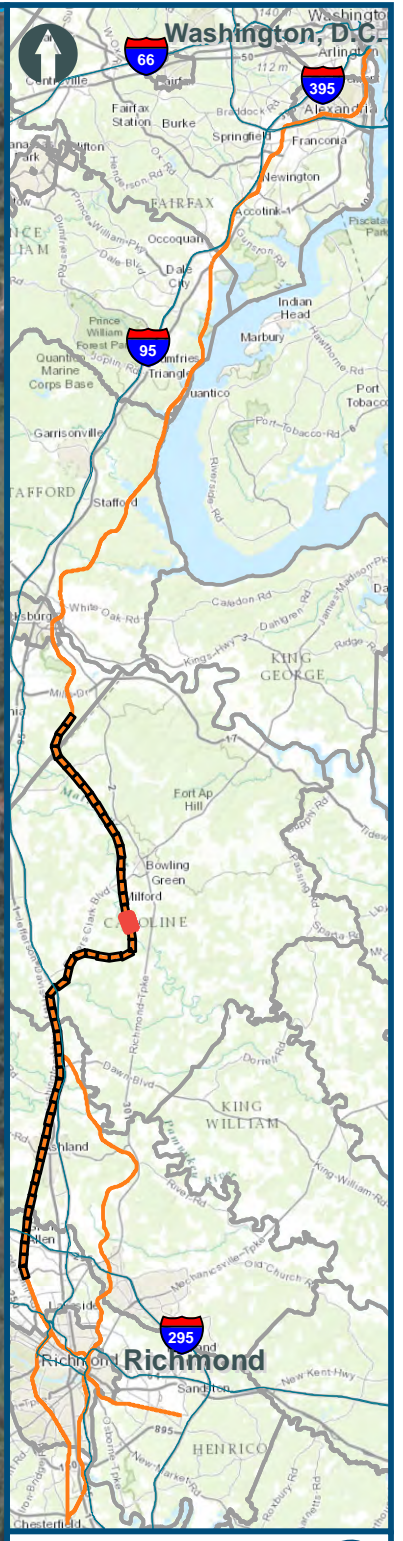


- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-19
Central Virginia
Optimized
Alignment Option

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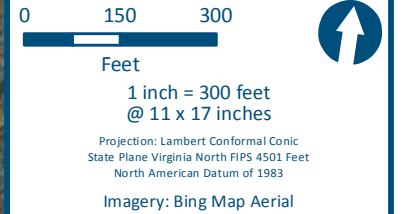
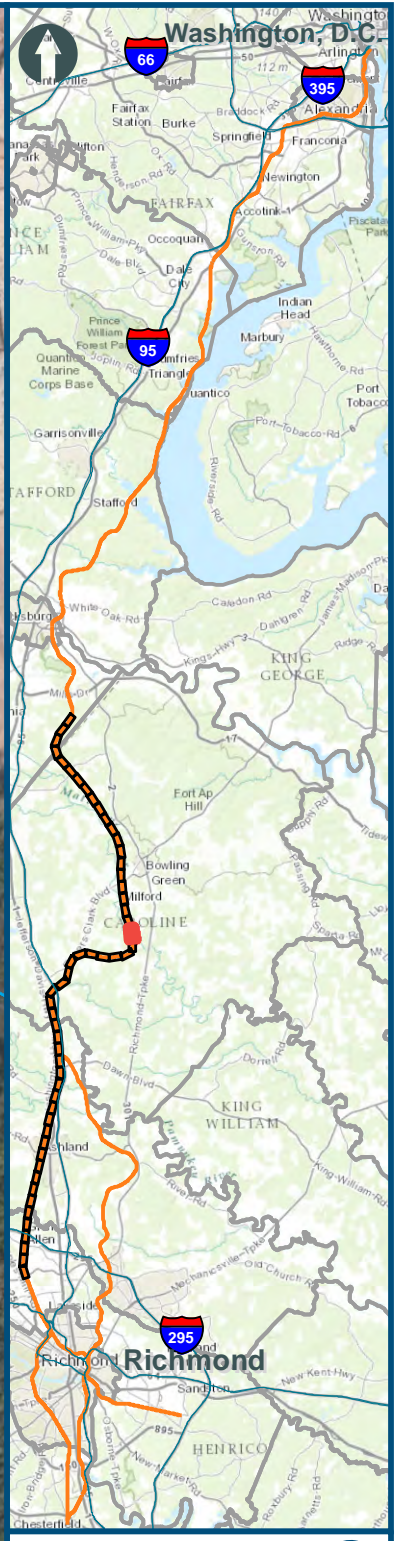
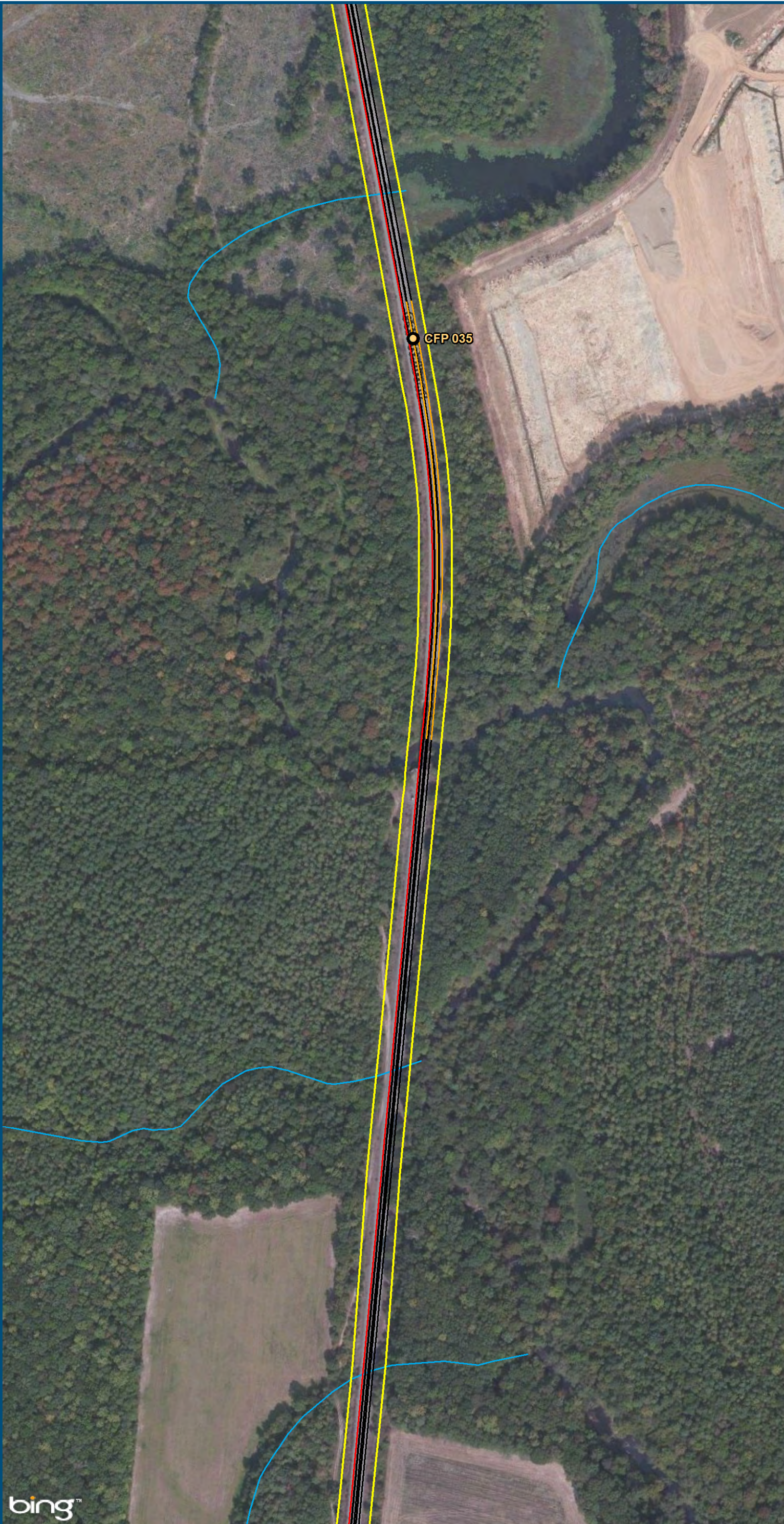
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-20
Central Virginia
Optimized
Alignment Option

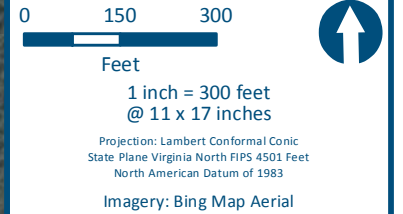
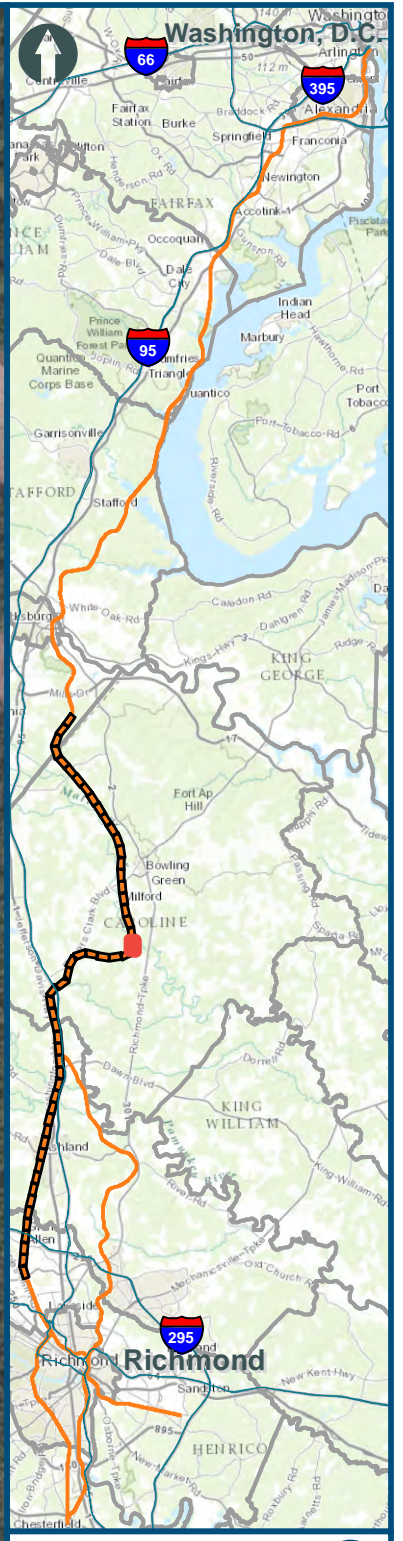
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-21
Central Virginia
Optimized
Alignment Option

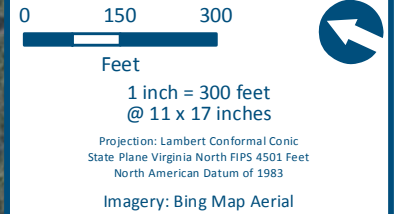
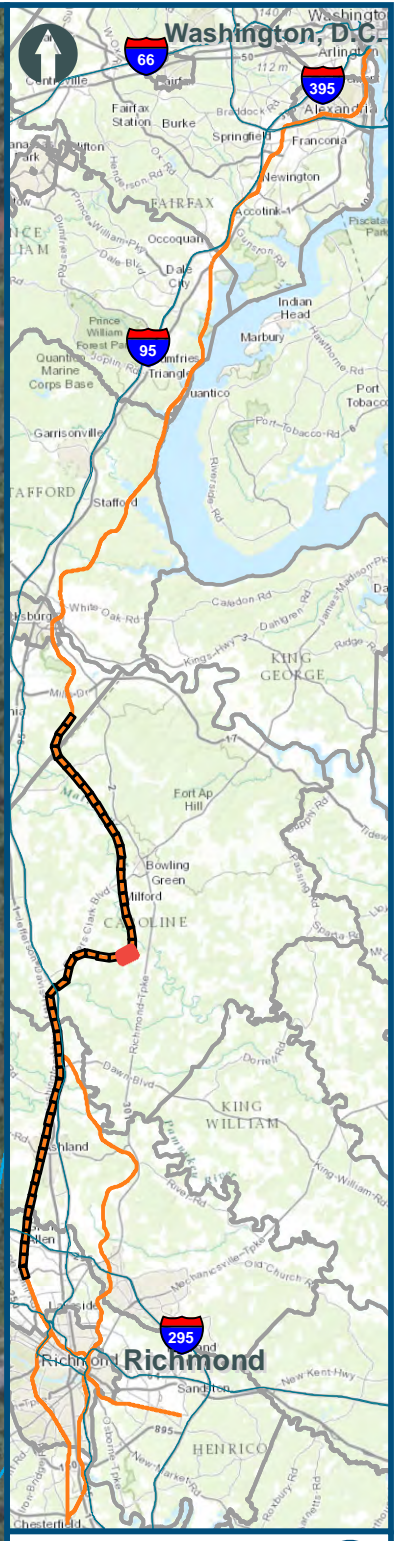
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-22
Central Virginia
Optimized
Alignment Option

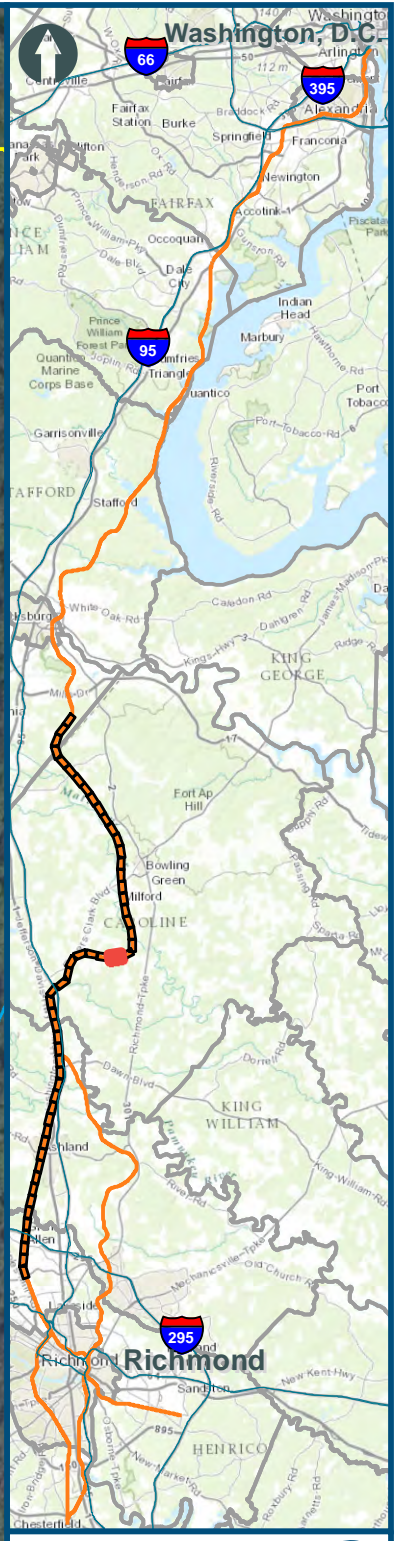
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-23
Central Virginia
Optimized
Alignment Option

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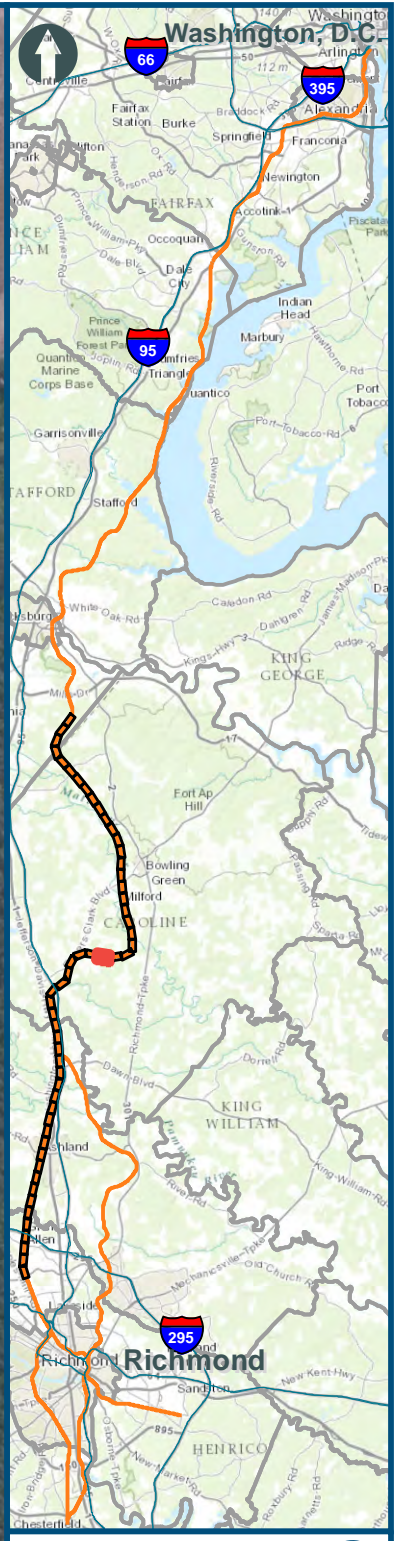


0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-24
Central Virginia
Optimized
Alignment Option

\\dlismain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AIDev-ConceptEng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Cht6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.02.2015

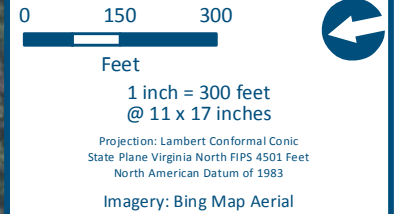
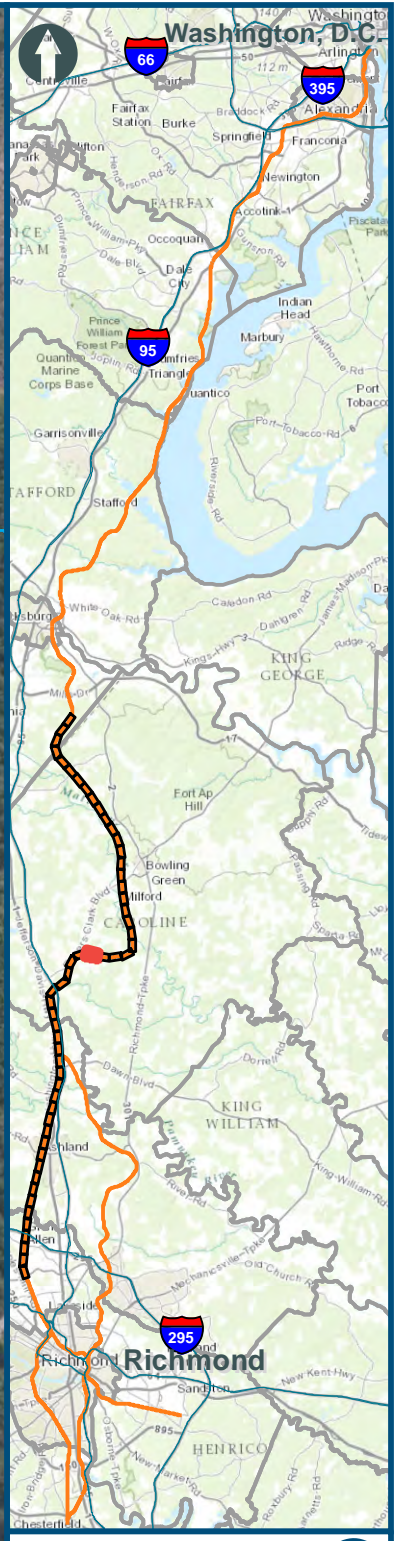


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-25
Central Virginia
Optimized
Alignment Option

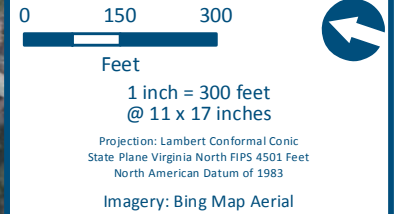
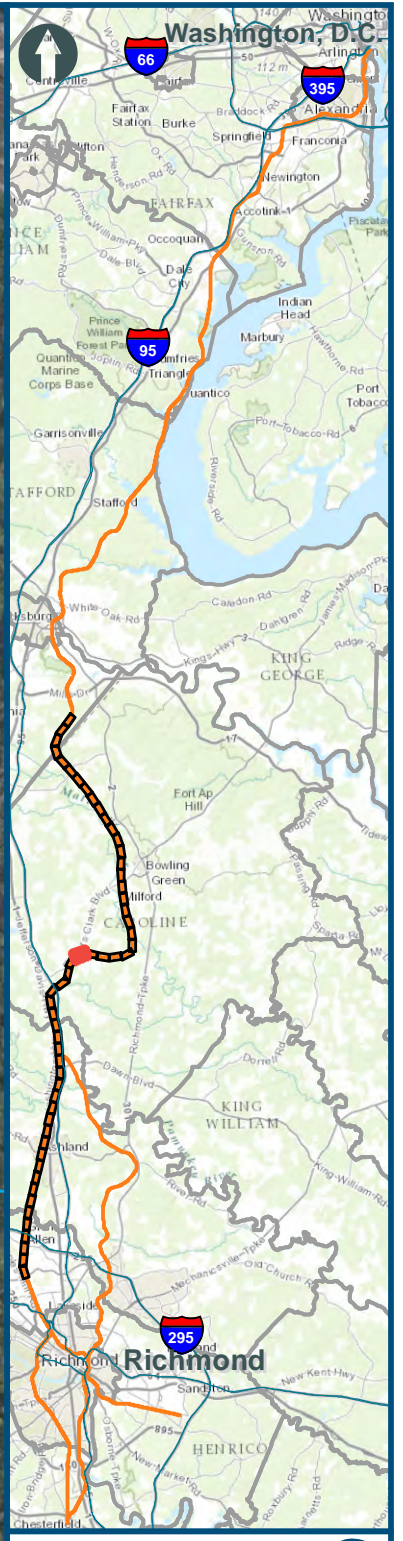
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-26
Central Virginia
Optimized
Alignment Option

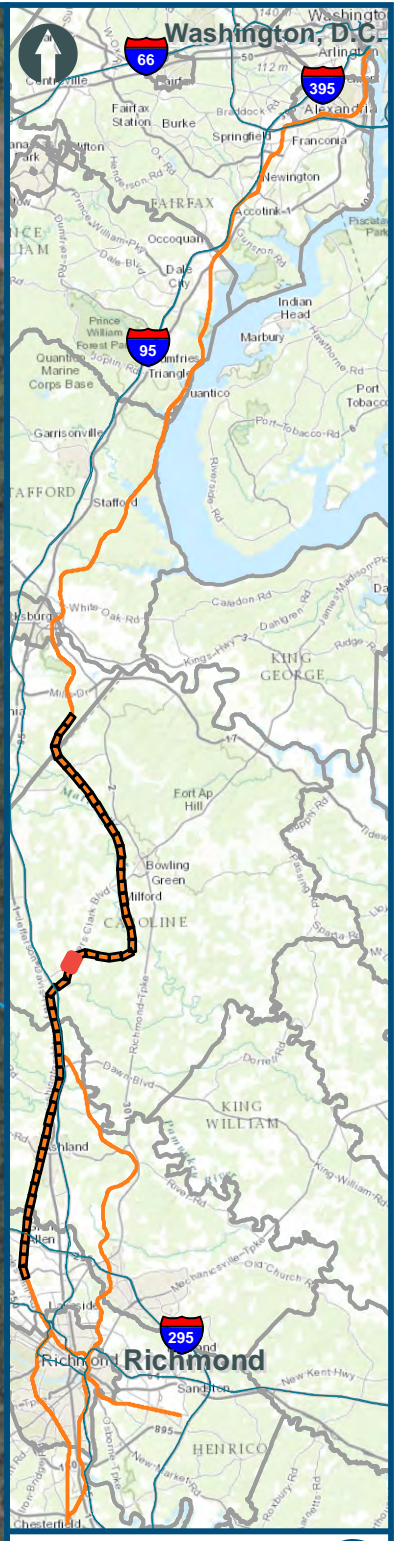
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-27
Central Virginia
Optimized
Alignment Option

\\dlismain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AllDev-Concept\Eng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Chr6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.02.2015



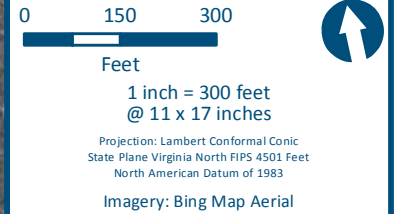
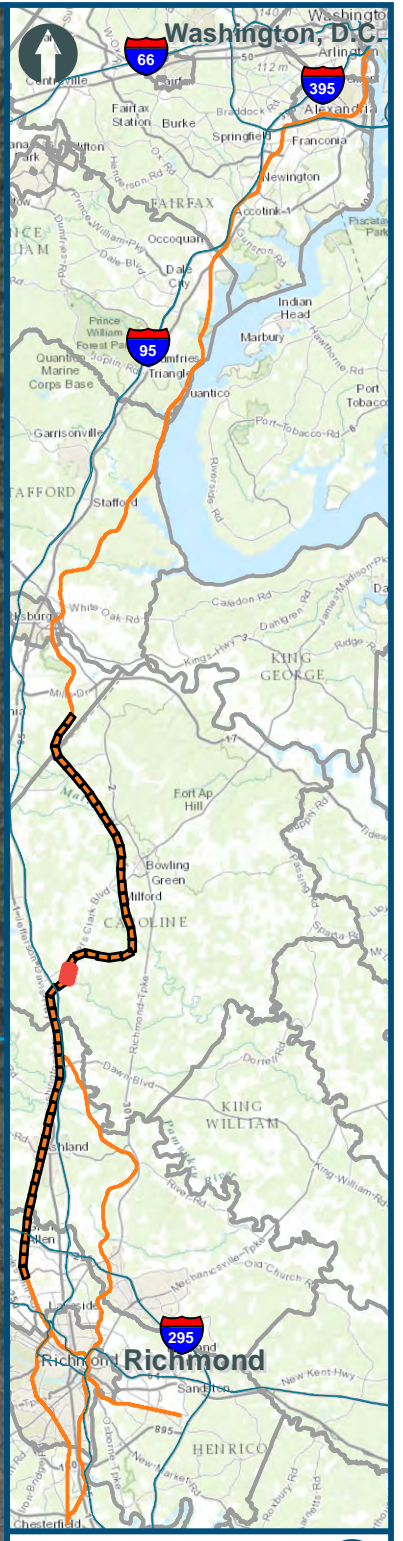
0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- Existing Track
- New Track
- Shift Track
- Remove Track
- ▭ CSXT Right-of-Way
- Streams

Figure V-28
Central Virginia
Optimized
Alignment Option

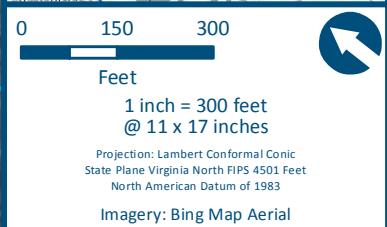
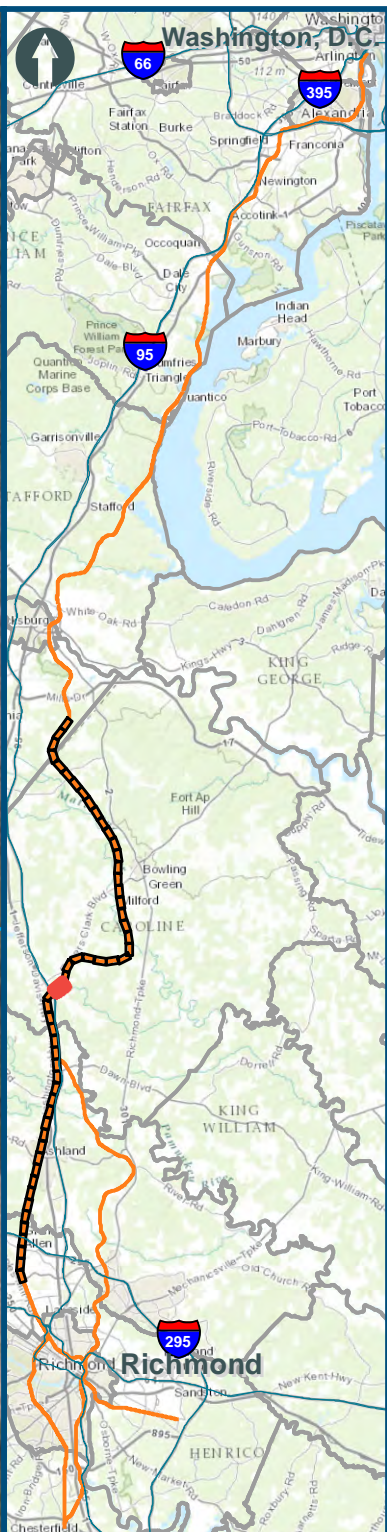
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

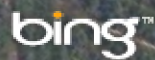
Figure V-29
Central Virginia
Optimized
Alignment Option

\\dlmain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AIDev-ConceptEng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Chr6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.02.2015



- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-30
Central Virginia
Optimized
Alignment Option

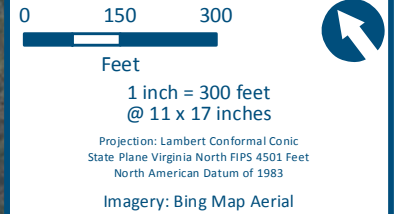
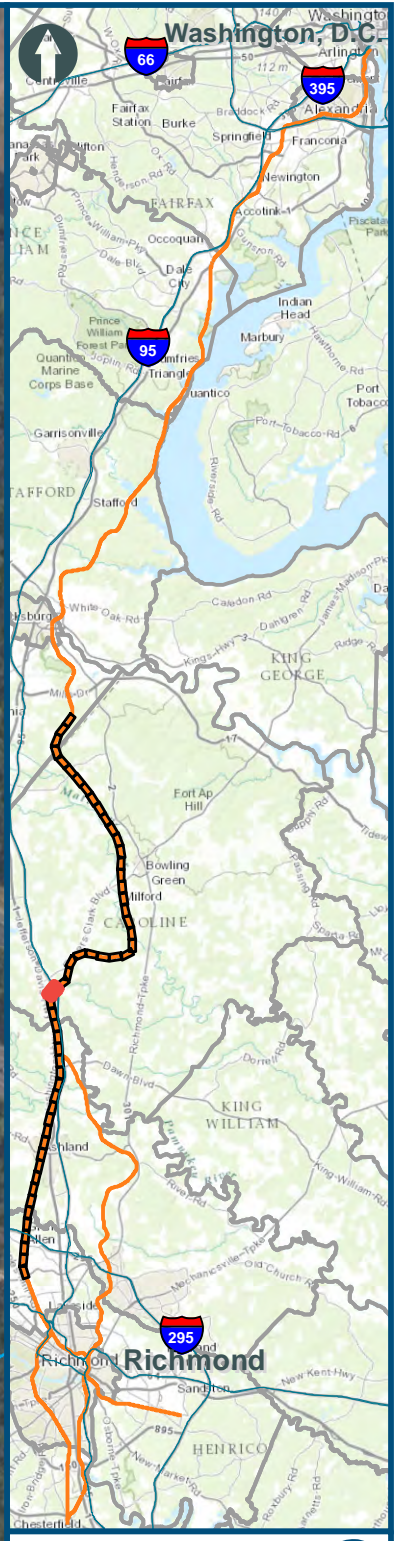


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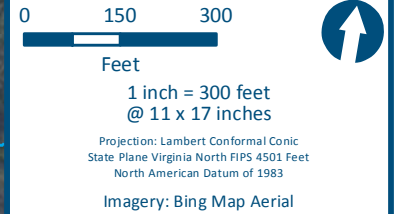
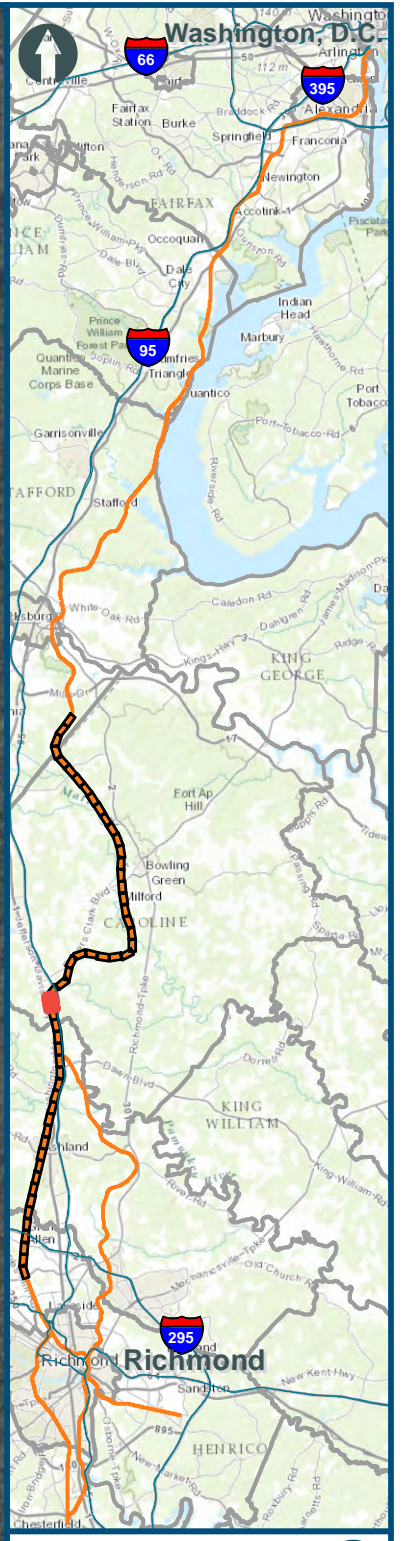
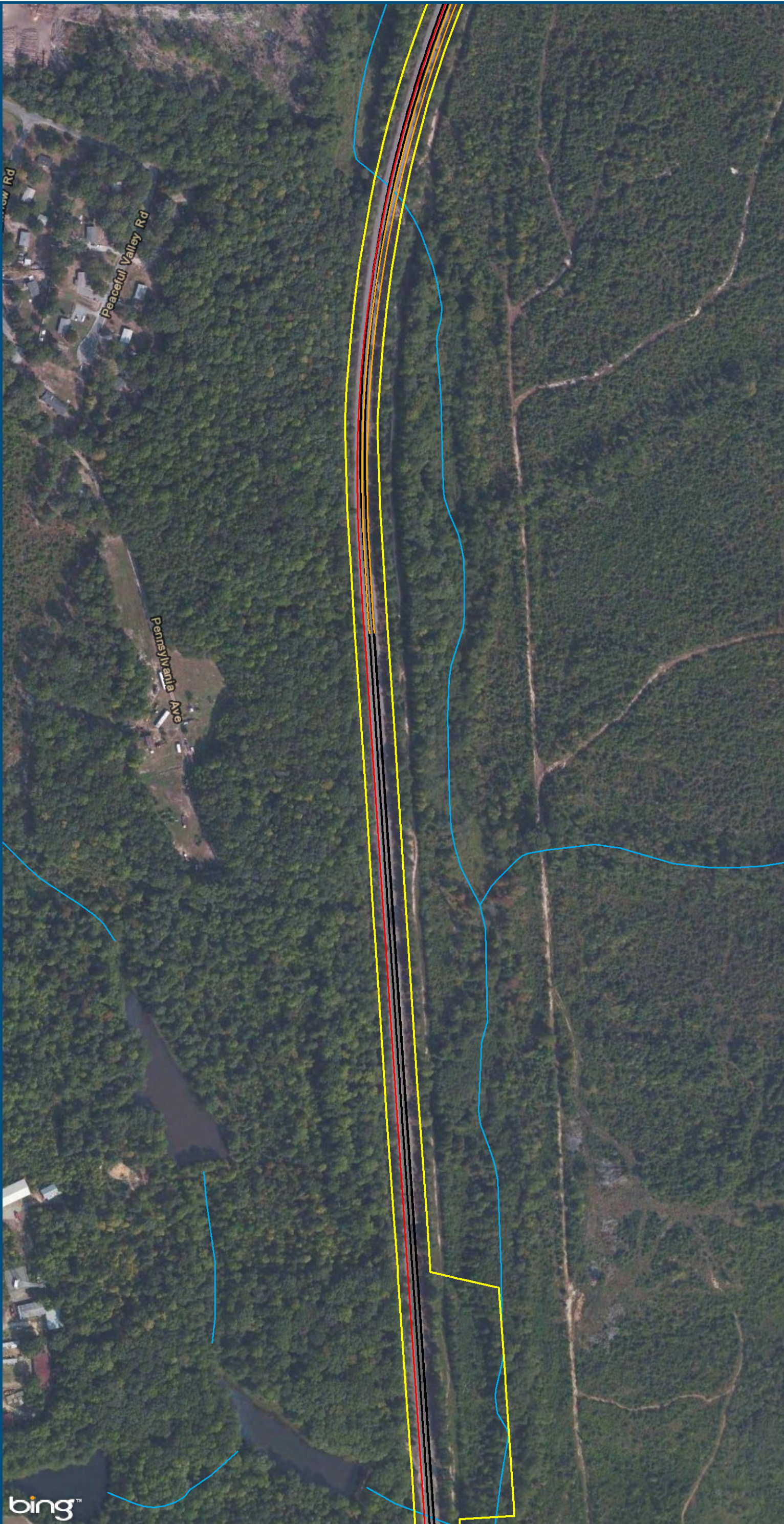
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-31
Central Virginia
Optimized
Alignment Option

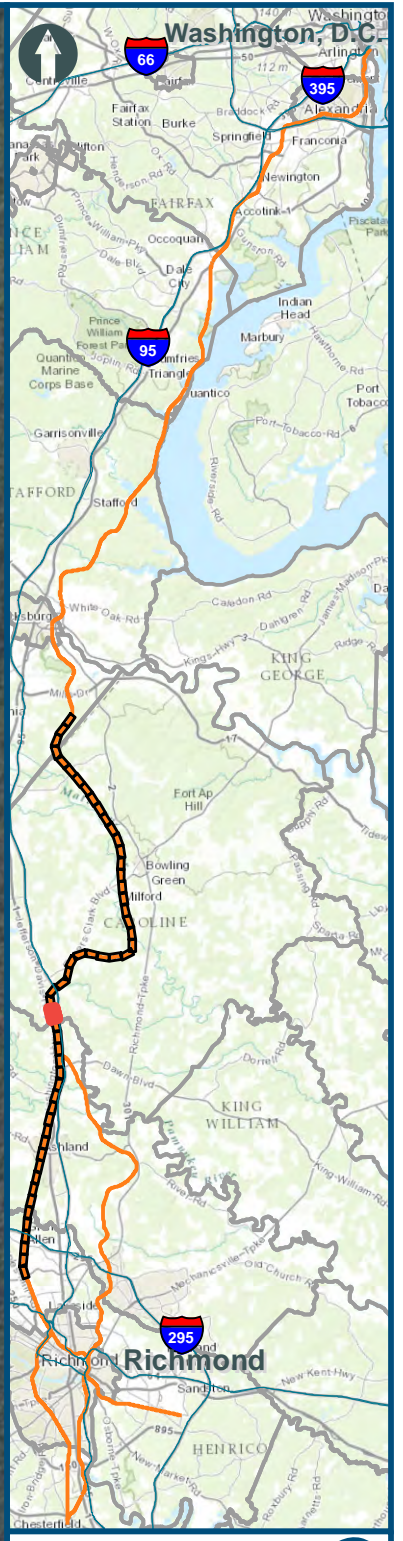
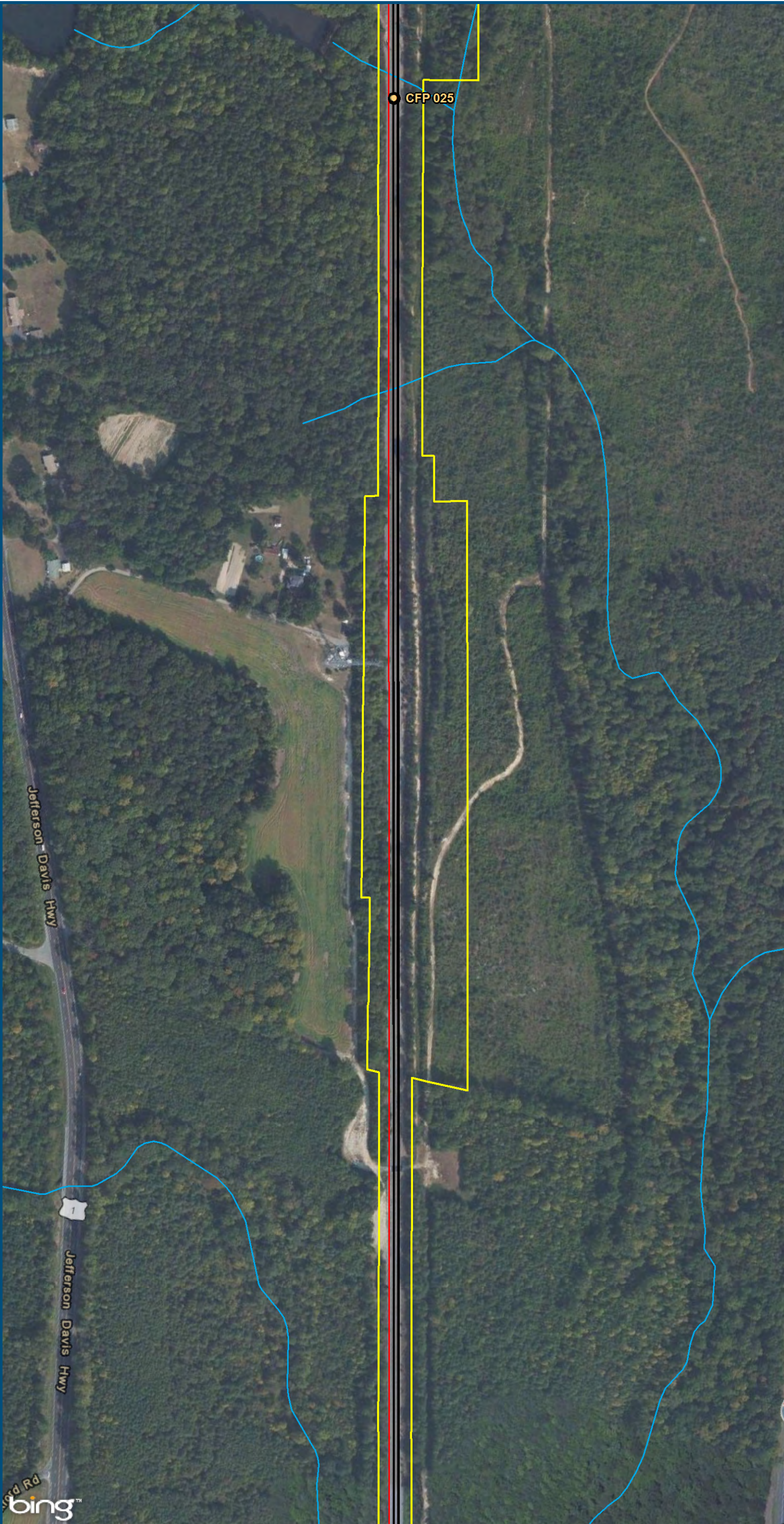
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-32
Central Virginia
Optimized
Alignment Option

\\dlismain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AIDev-Concept\Eng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Chr6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.02.2015

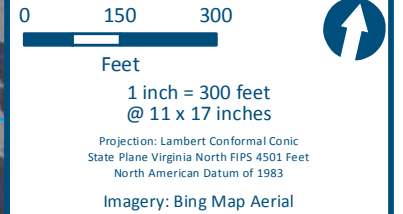
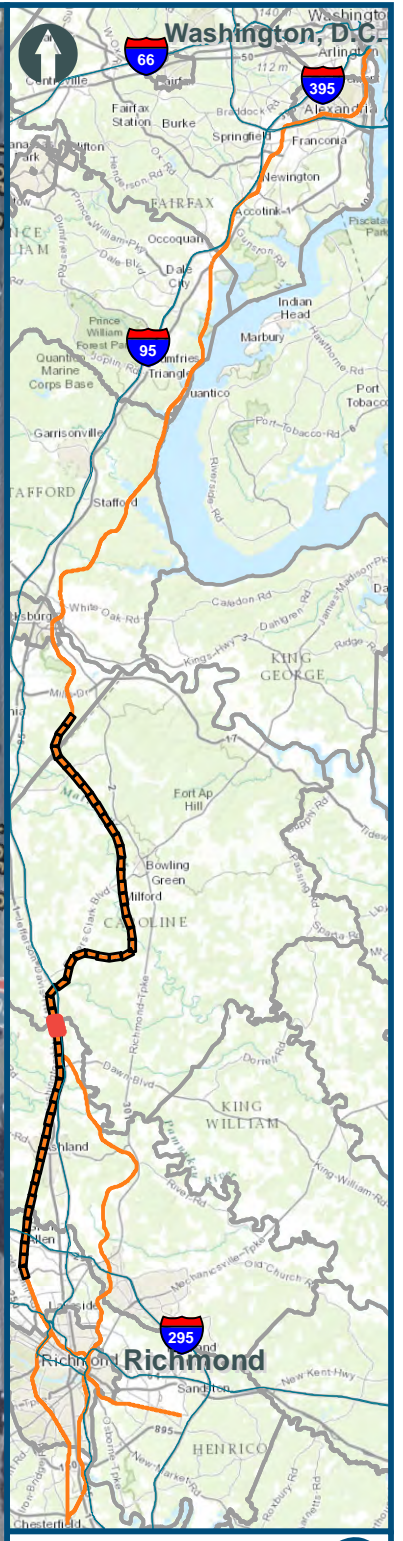
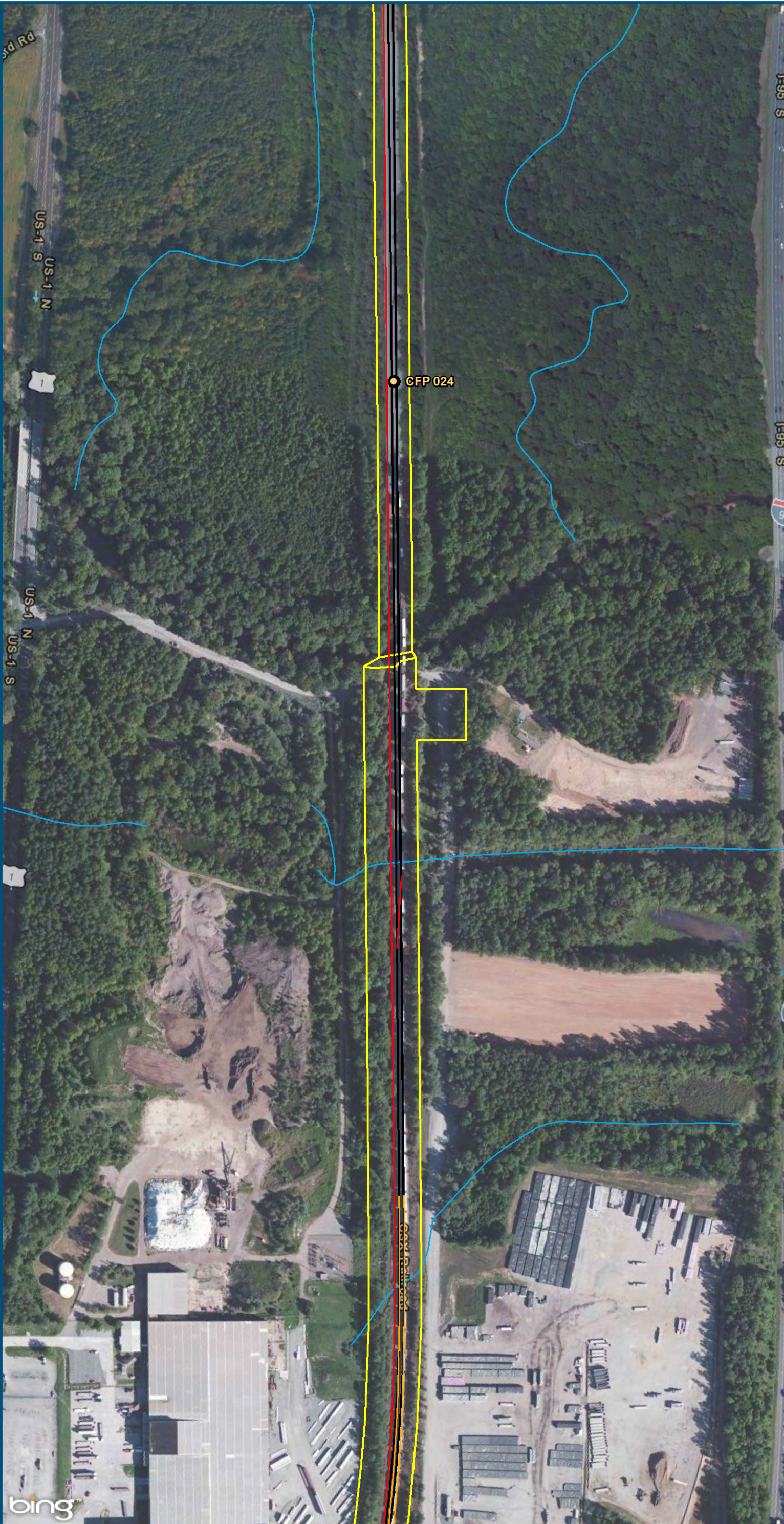


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-33
Central Virginia
Optimized
Alignment Option

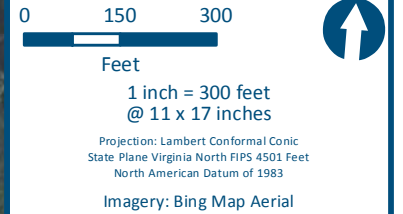
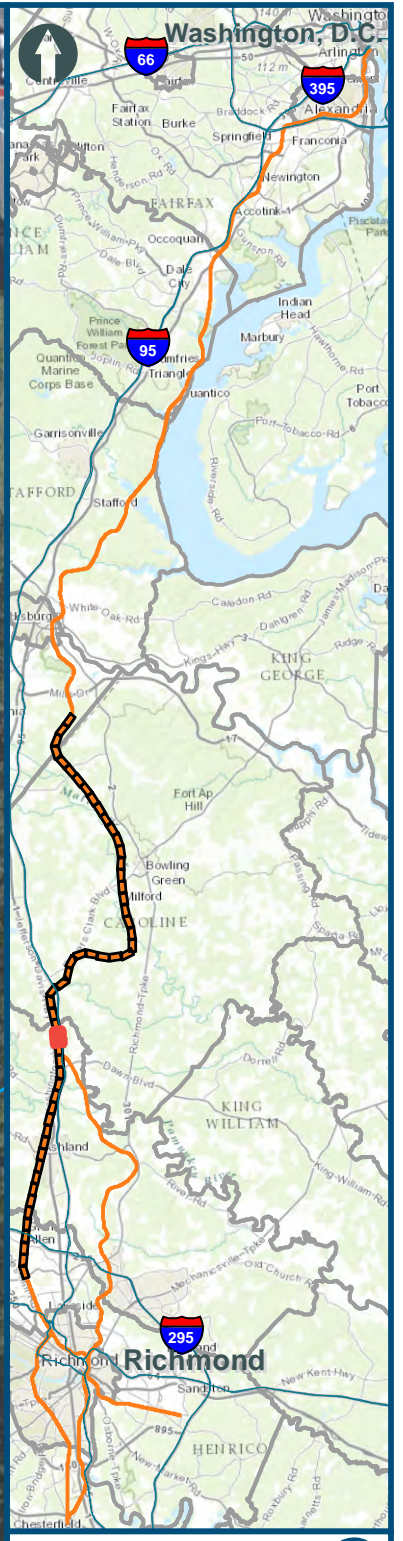
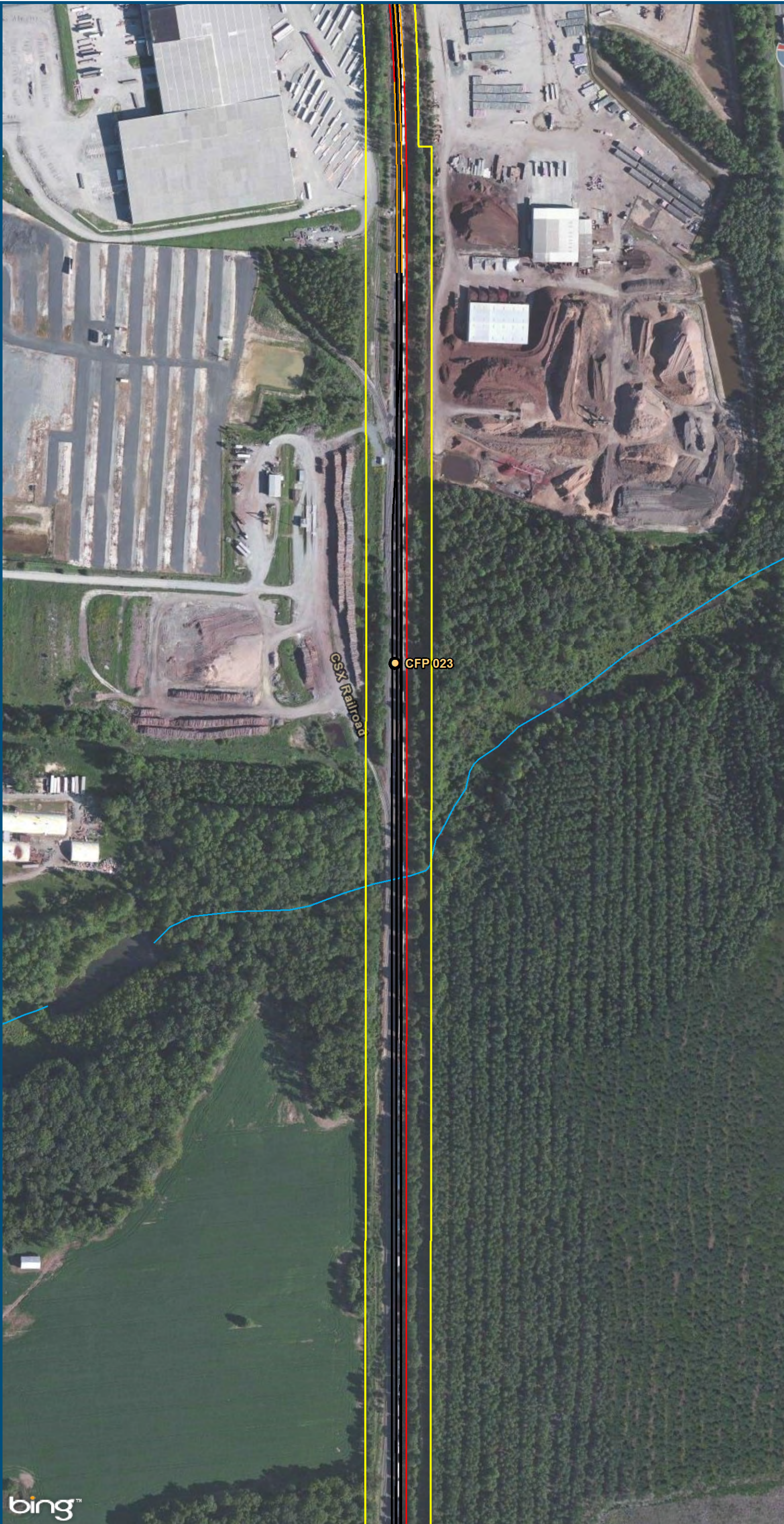
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-34
Central Virginia
Optimized
Alignment Option

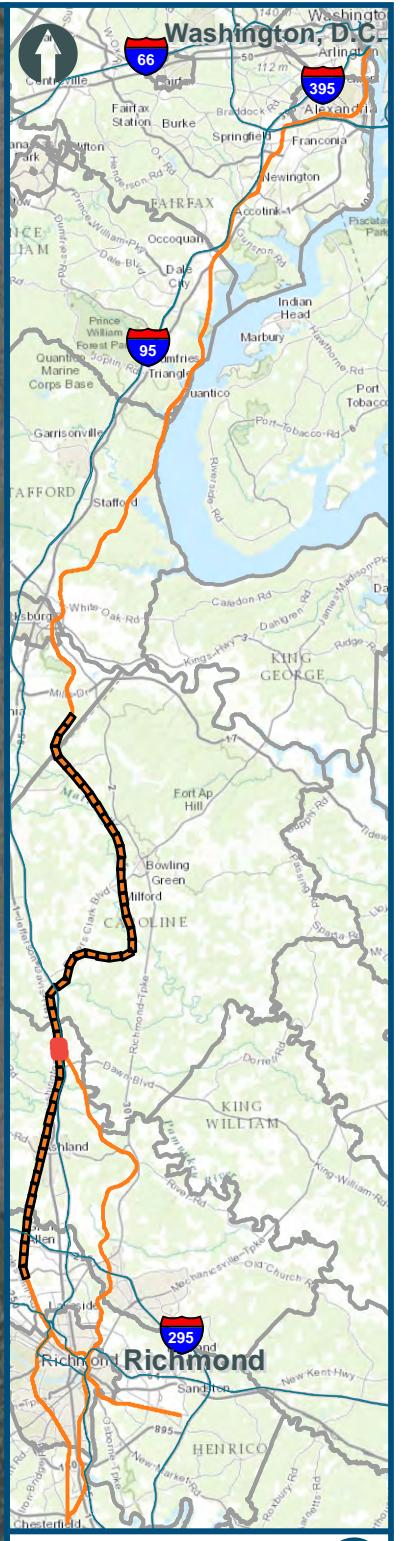
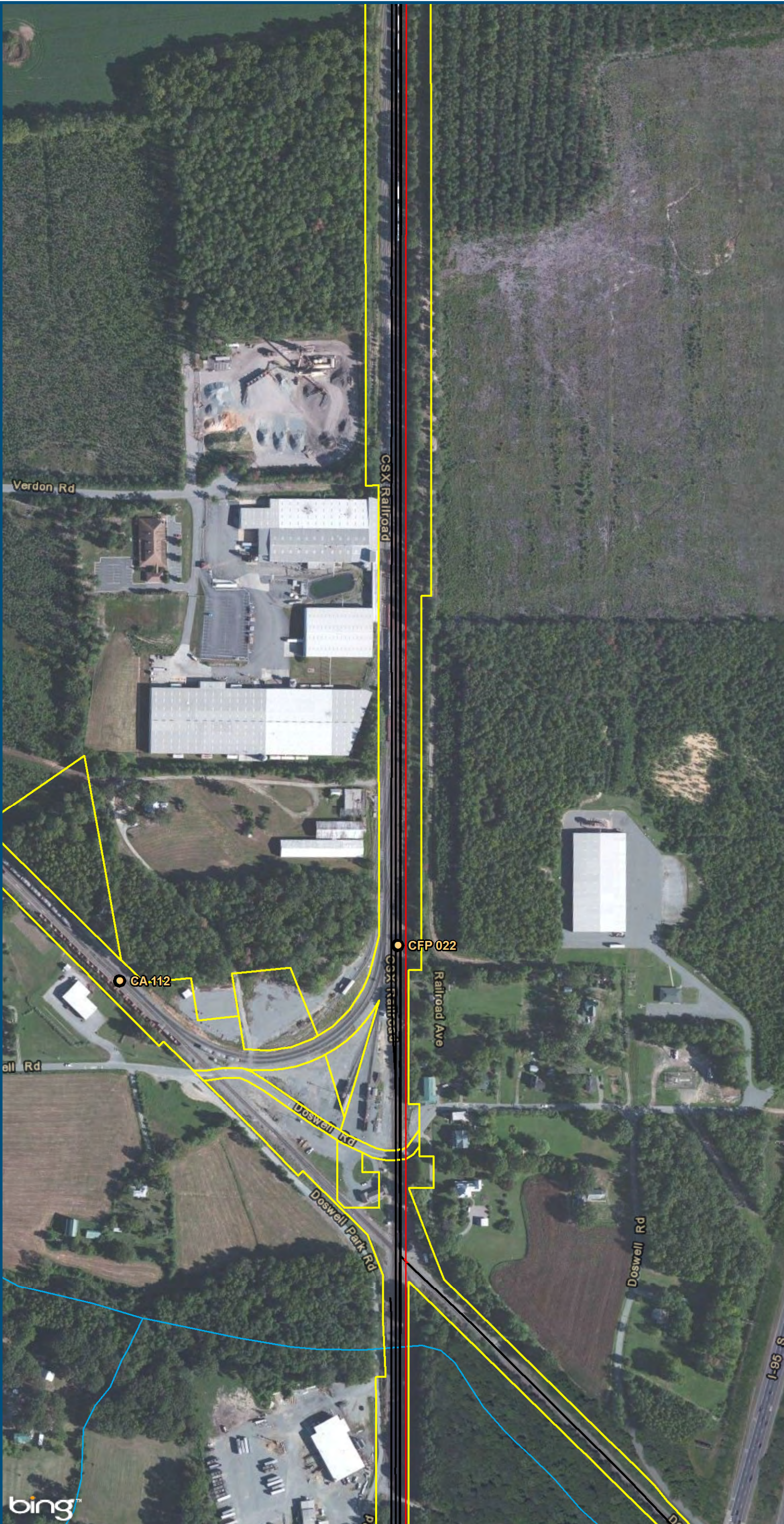
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-35
Central Virginia
Optimized
Alignment Option

\\dlmain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AIDev-ConceptEng\map_docs\mxd\Airt_Tech_Report\DC2RVA_Ch6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.02.2015

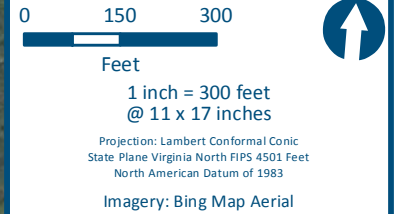
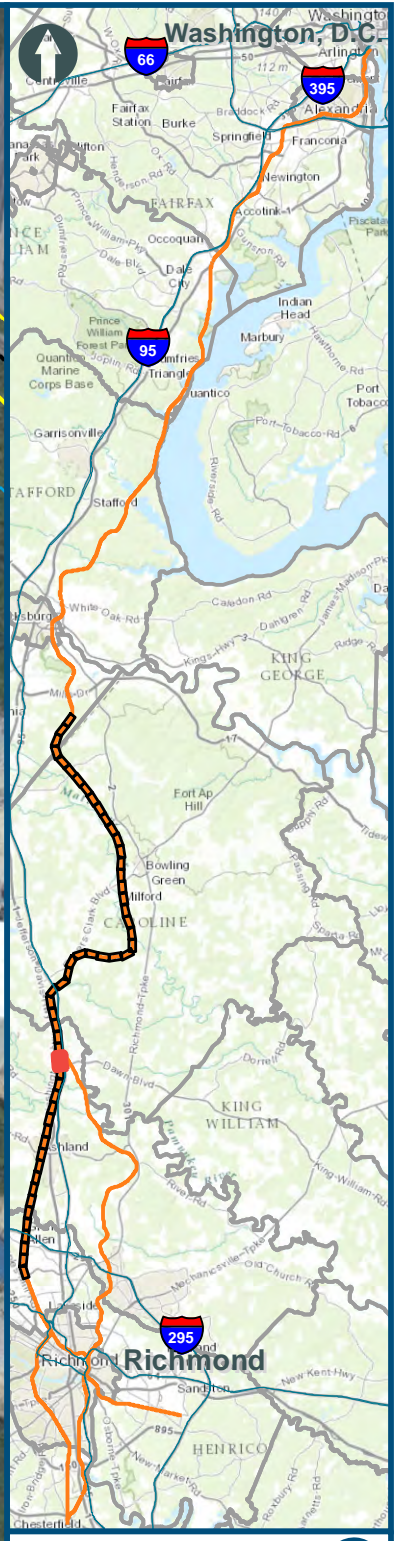
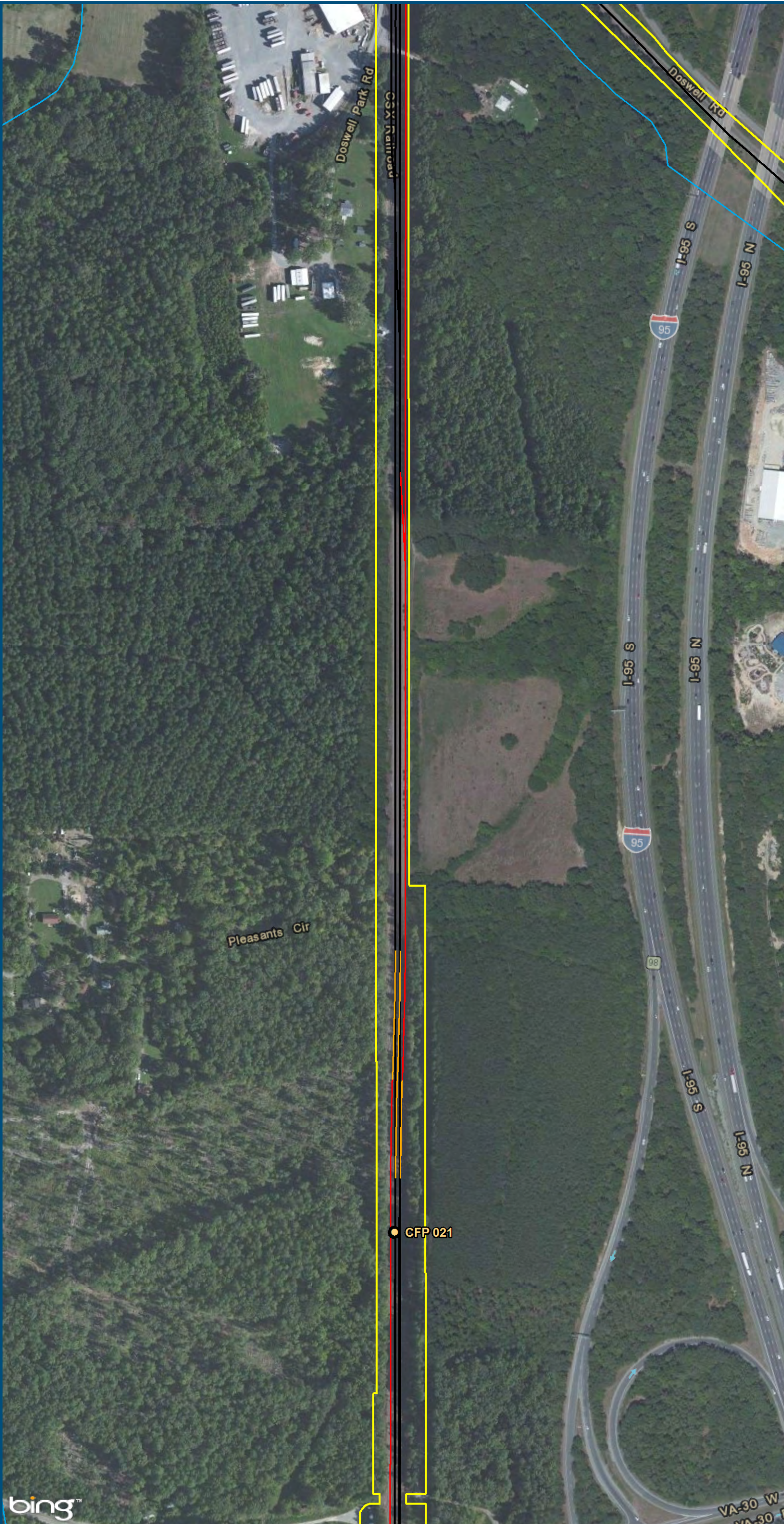


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-36
Central Virginia
Optimized
Alignment Option

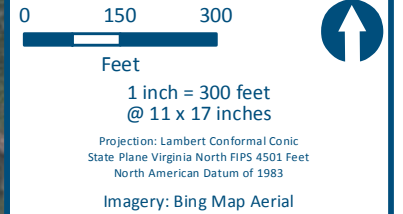
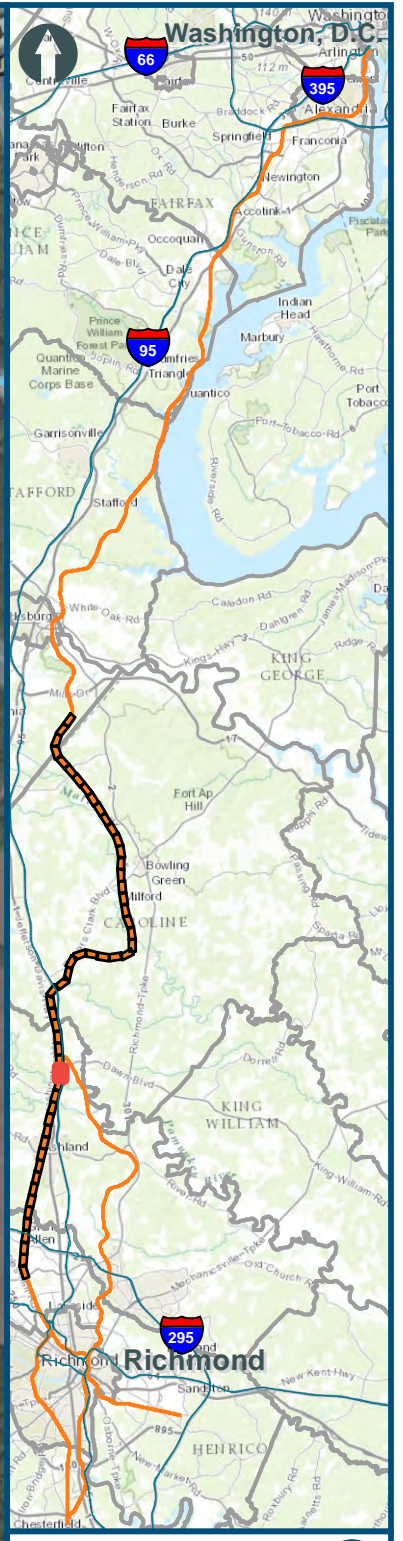
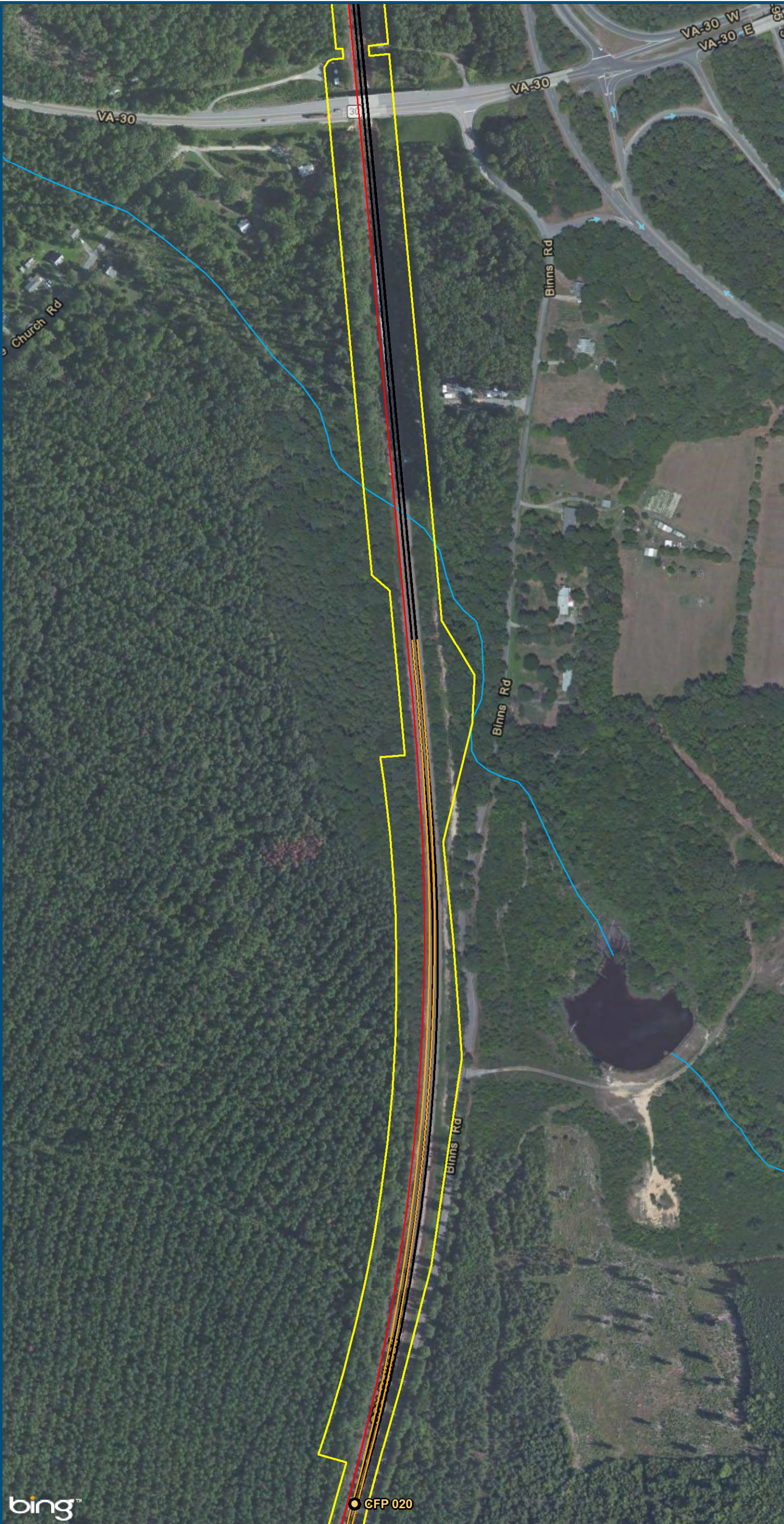
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-37
Central Virginia
Optimized
Alignment Option

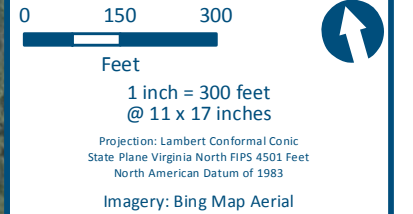
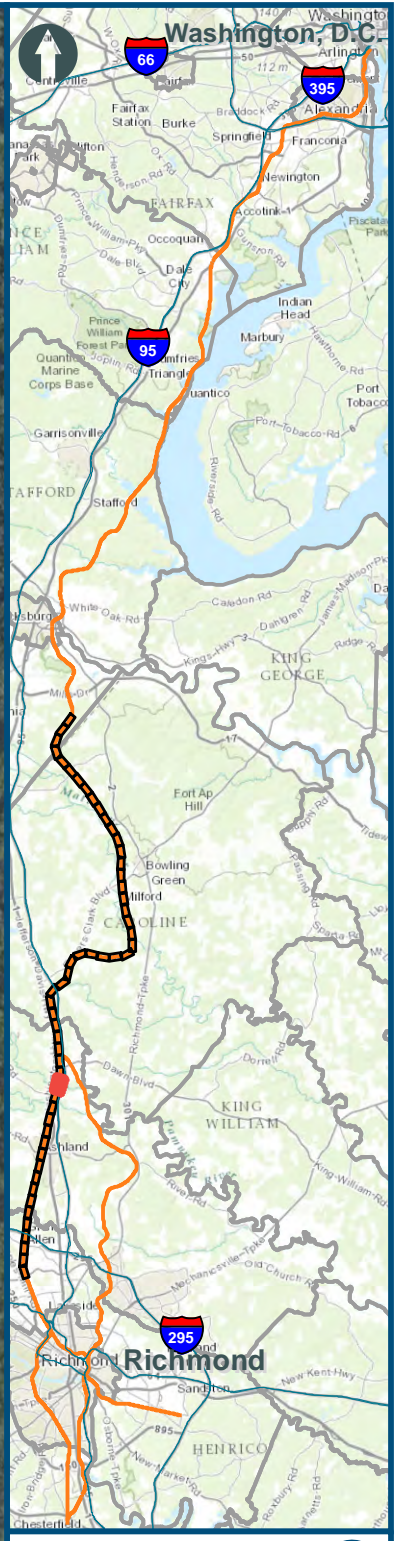
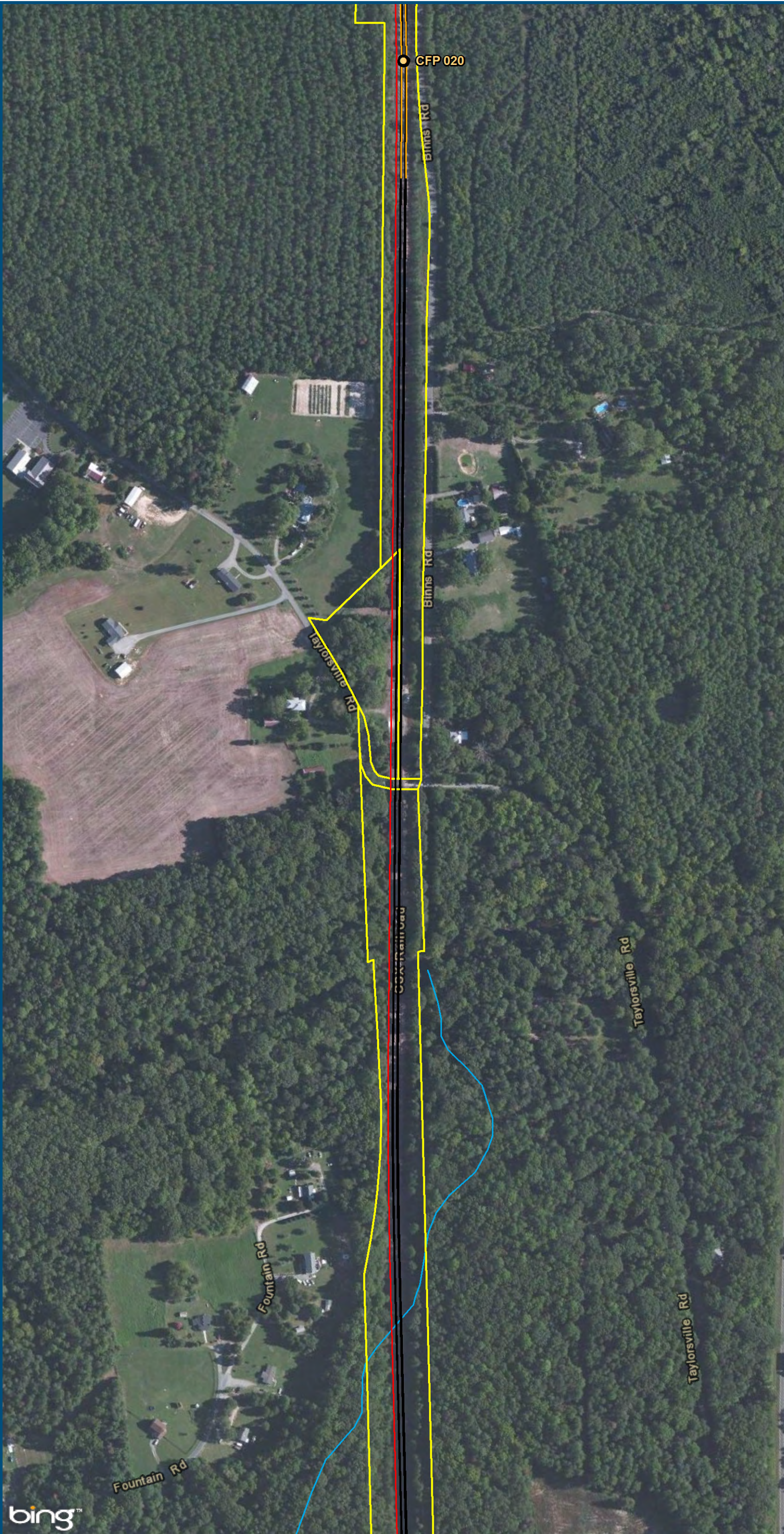
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

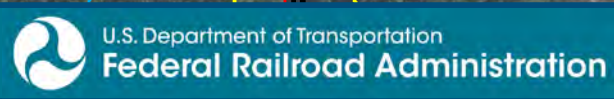
Figure V-38
Central Virginia
Optimized
Alignment Option

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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

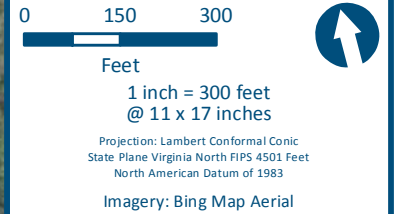
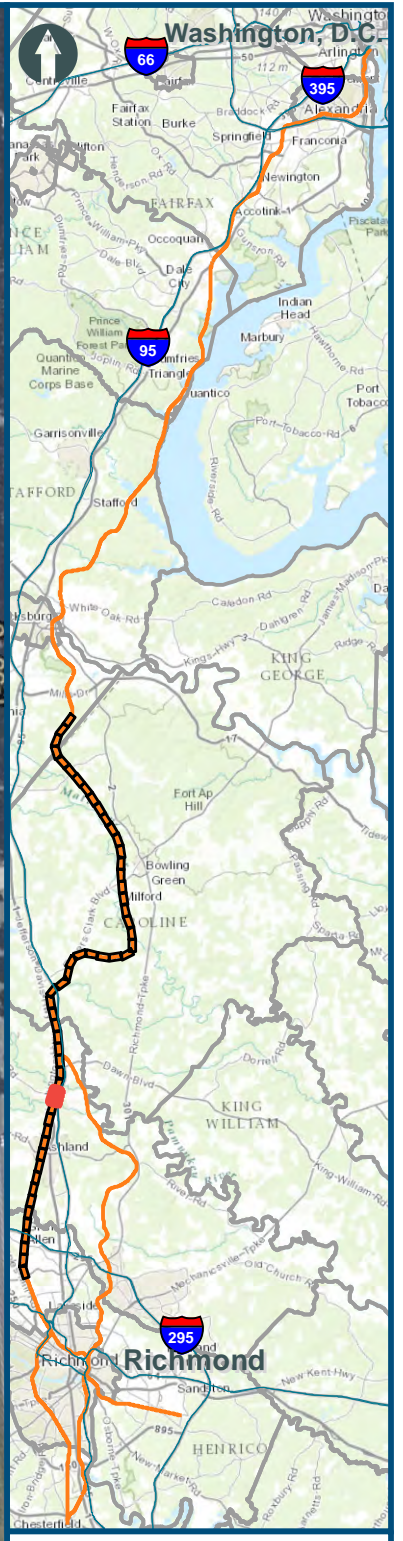
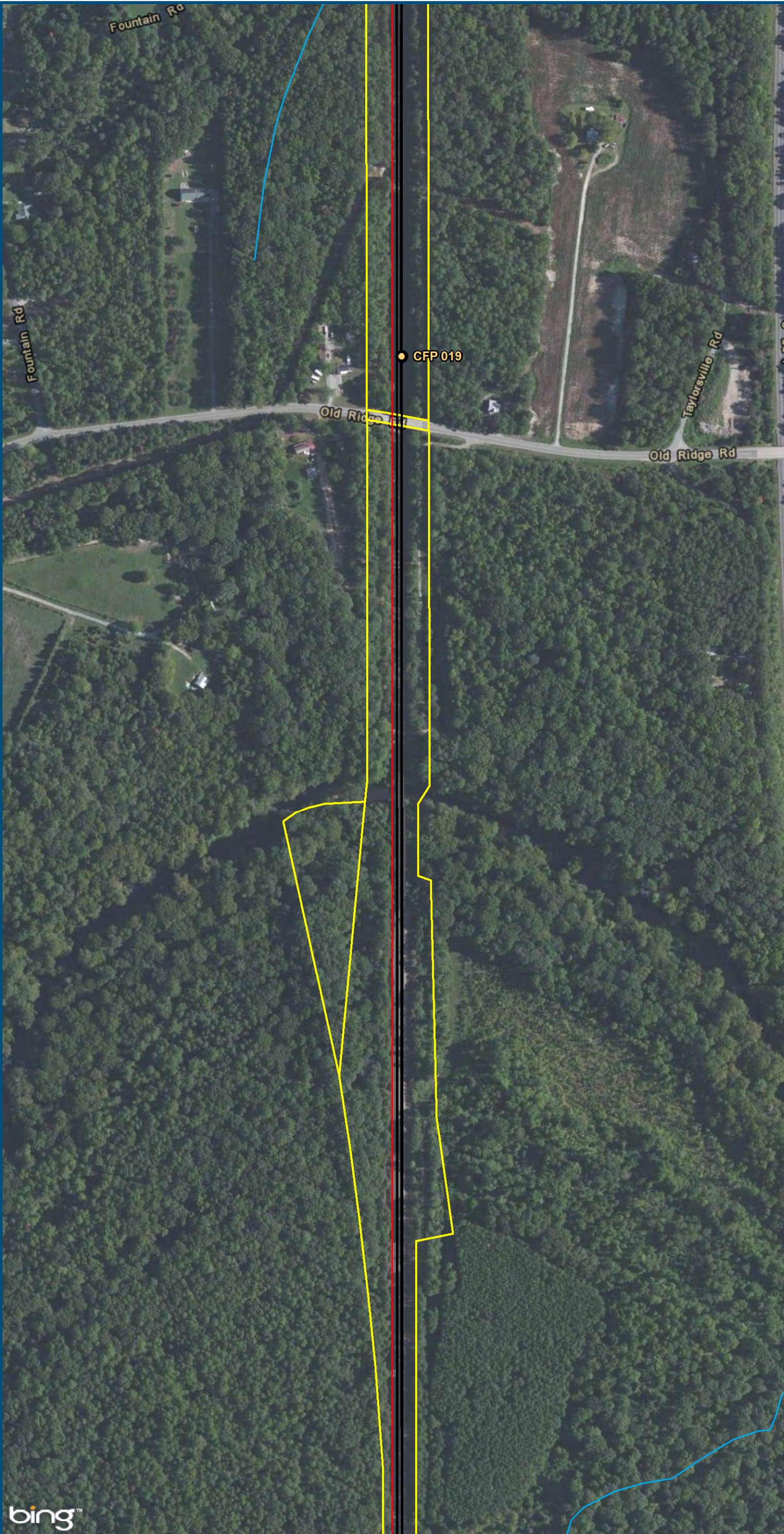
Figure V-39
Central Virginia
Optimized
Alignment Option



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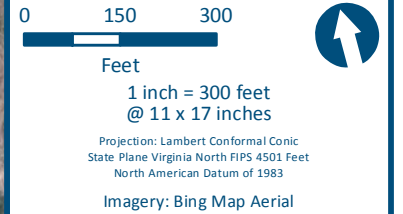
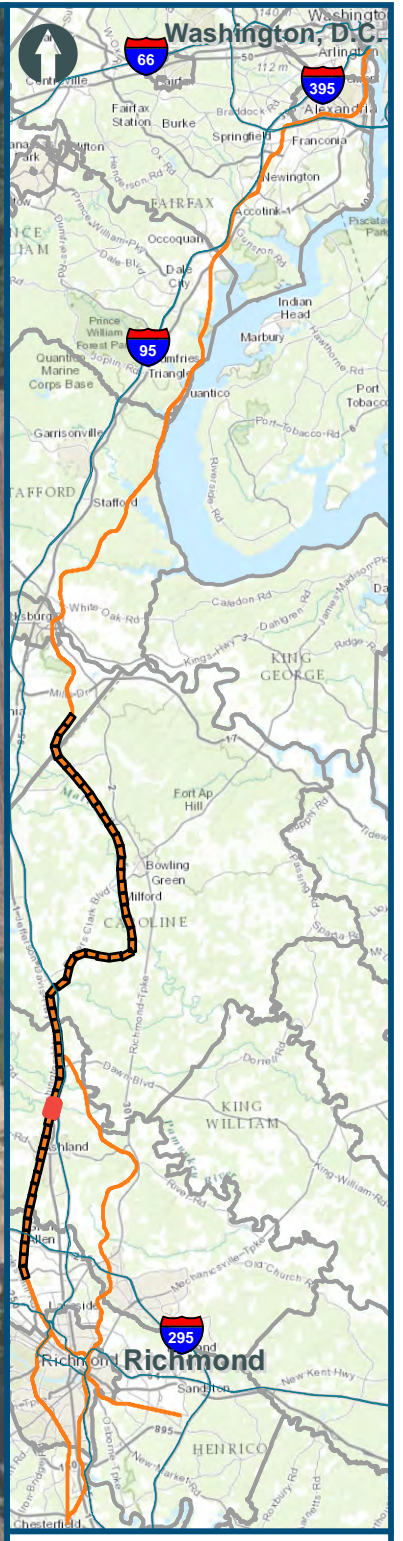
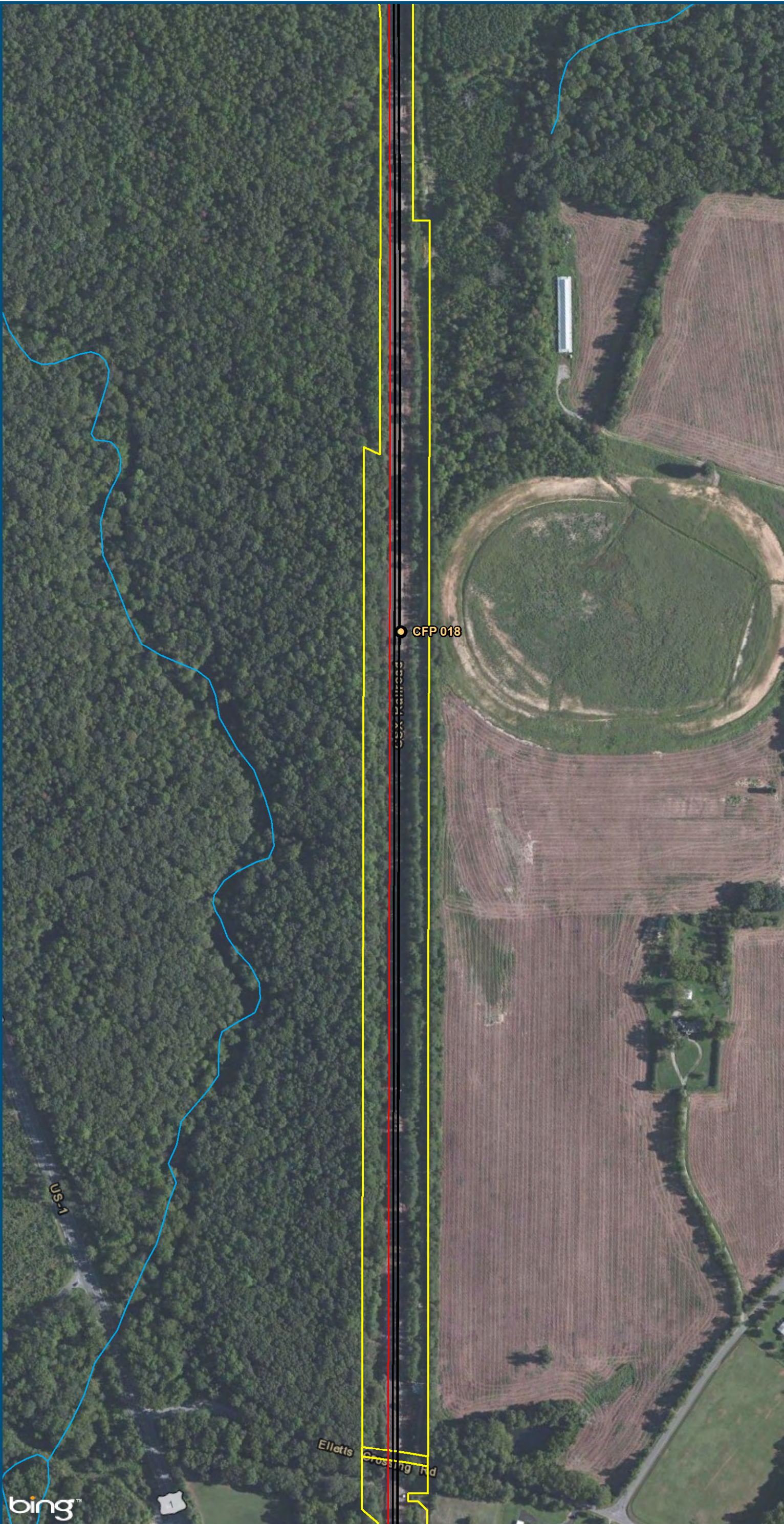
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - CSXT Right-of-Way
 - Streams

Figure V-40
Central Virginia
Optimized
Alignment Option

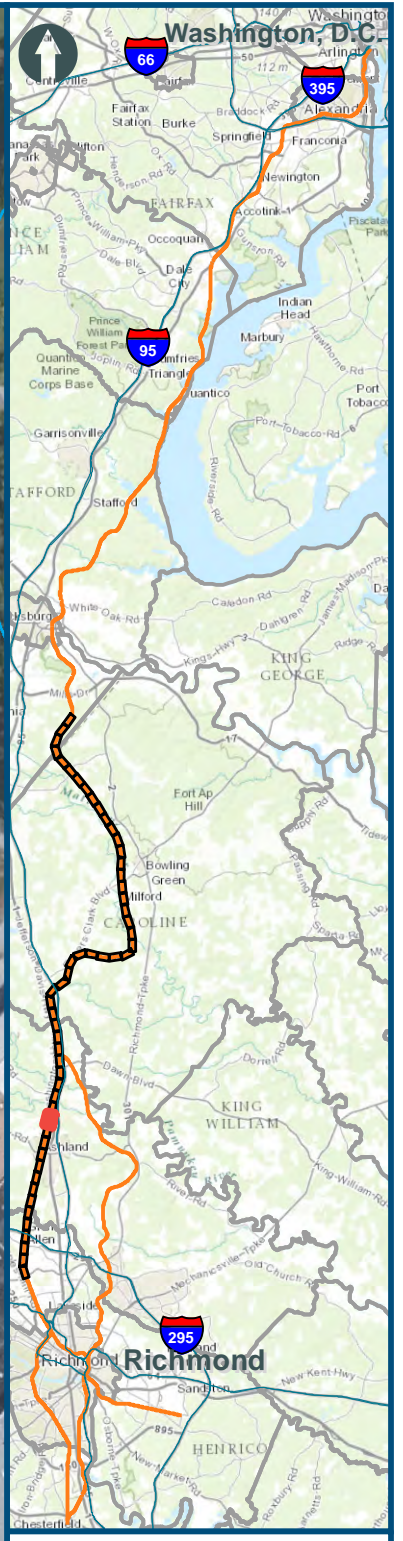
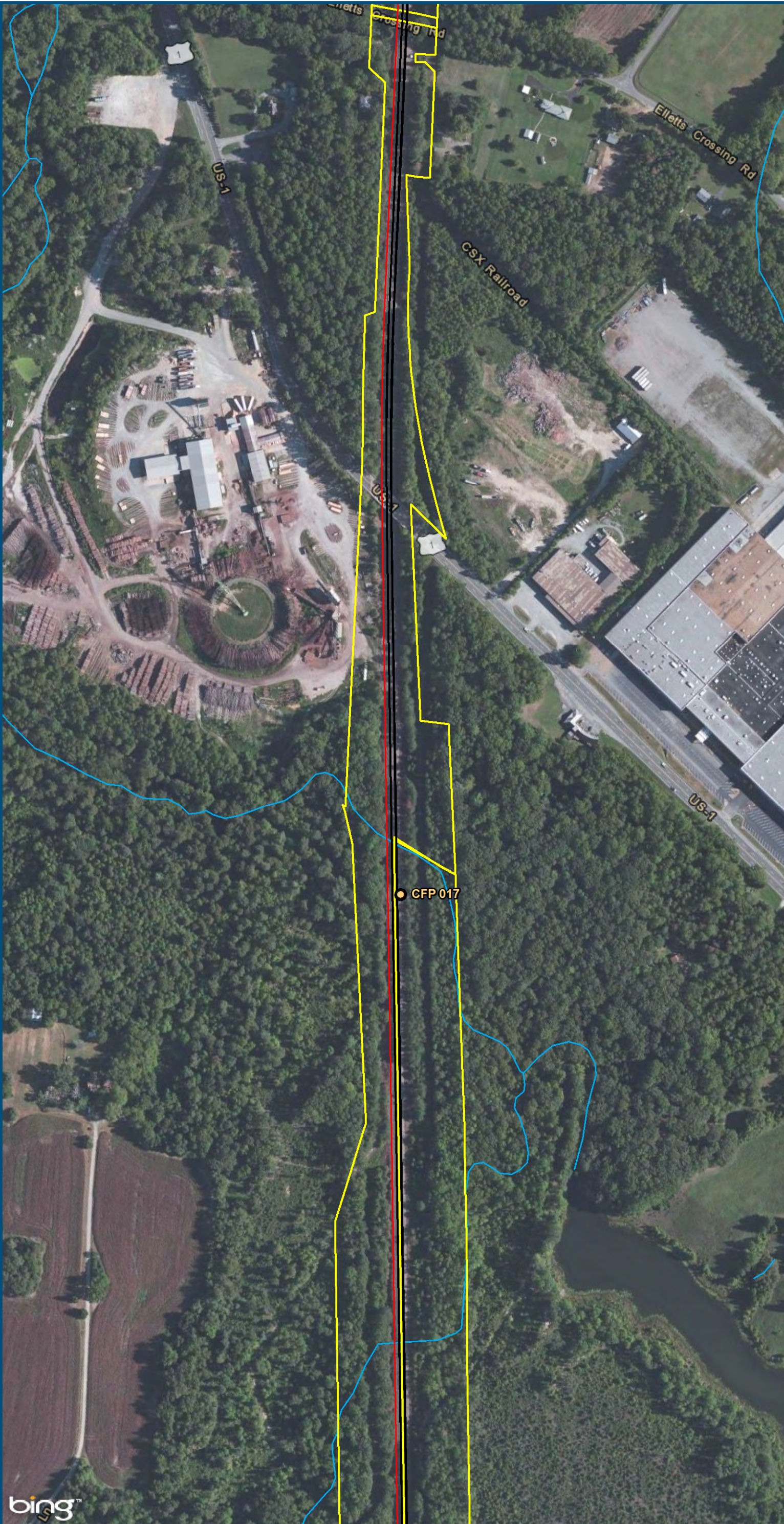
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - CSXT Right-of-Way
 - Streams

Figure V-41
Central Virginia
Optimized
Alignment Option

\\dlismain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AIDev-Concept\Eng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Chr6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.06.2015

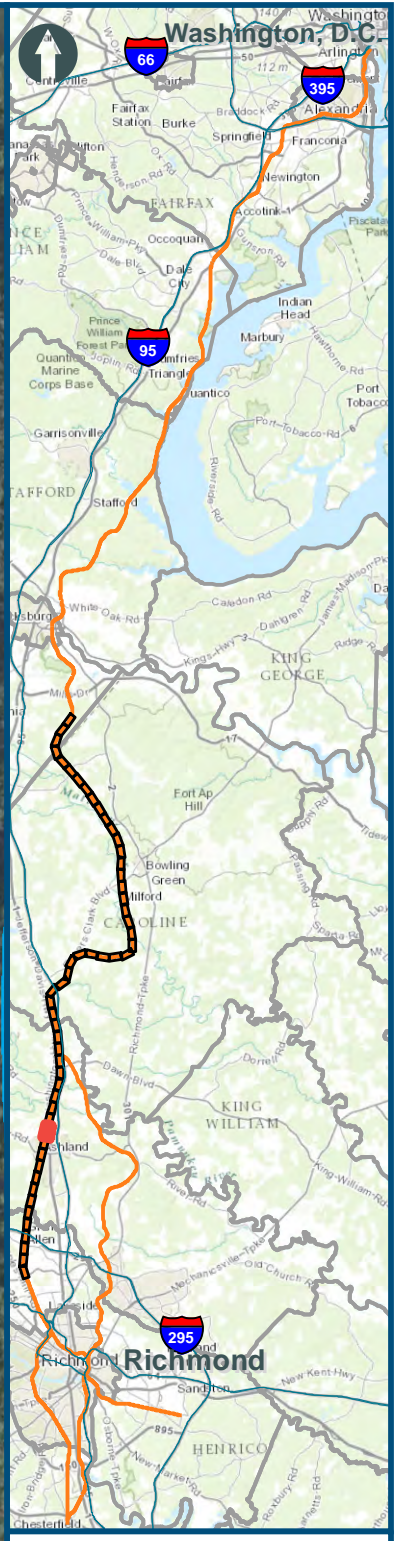
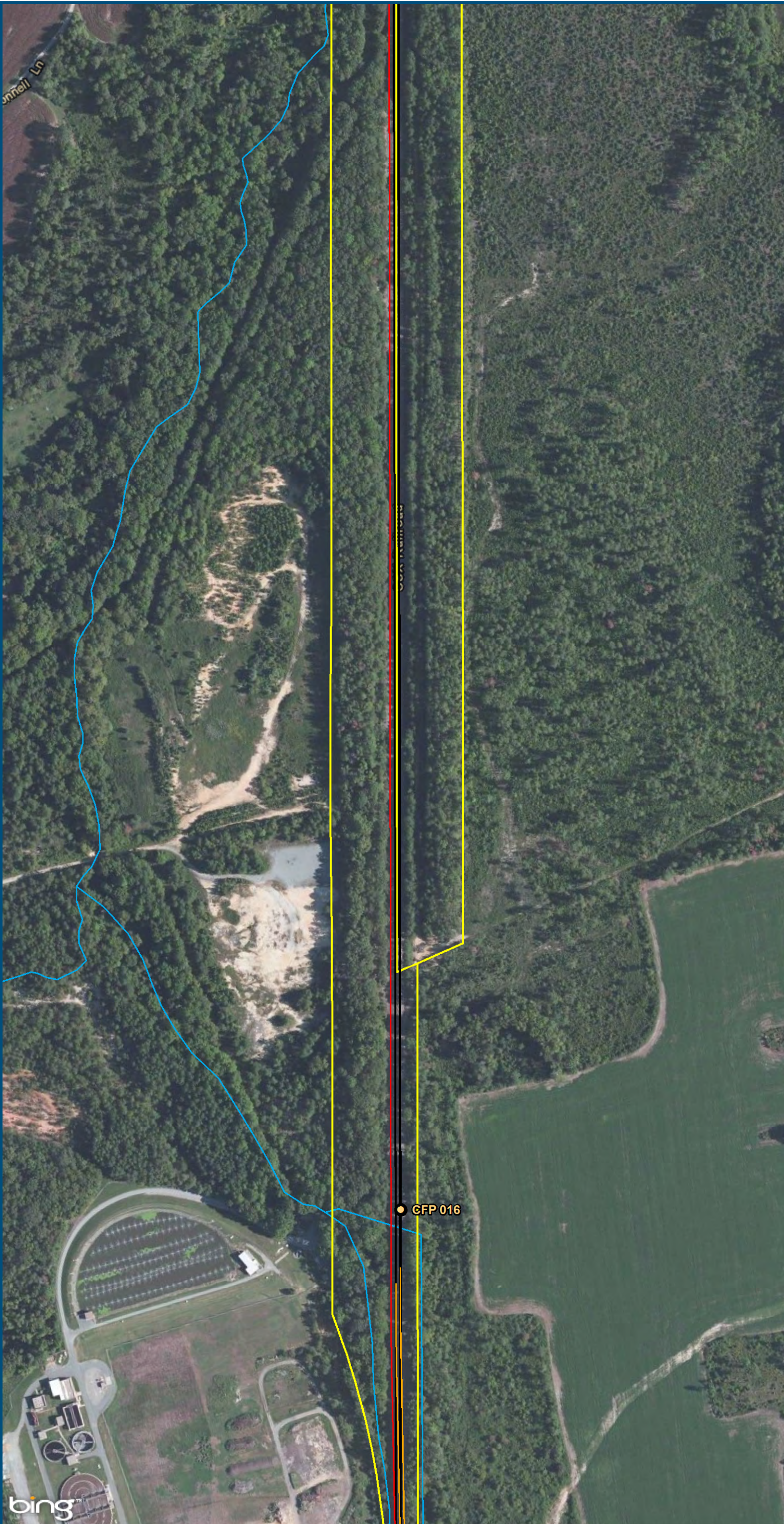


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - ▭ CSXT Right-of-Way
 - Streams

Figure V-42
Central Virginia
Optimized
Alignment Option

\\dlismain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AIDev-Concept\Eng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Chr6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.06.2015



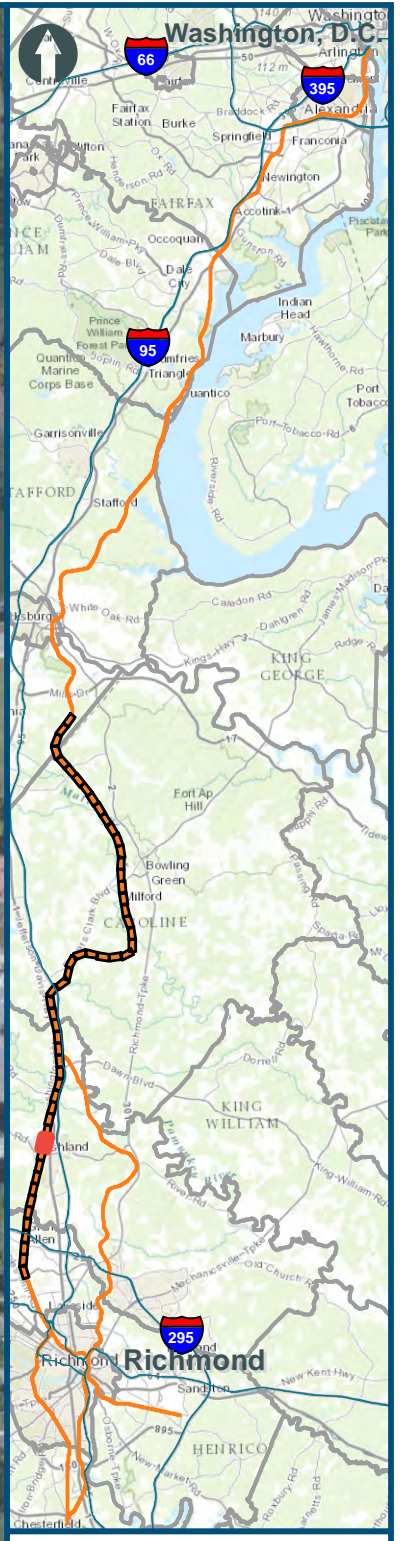
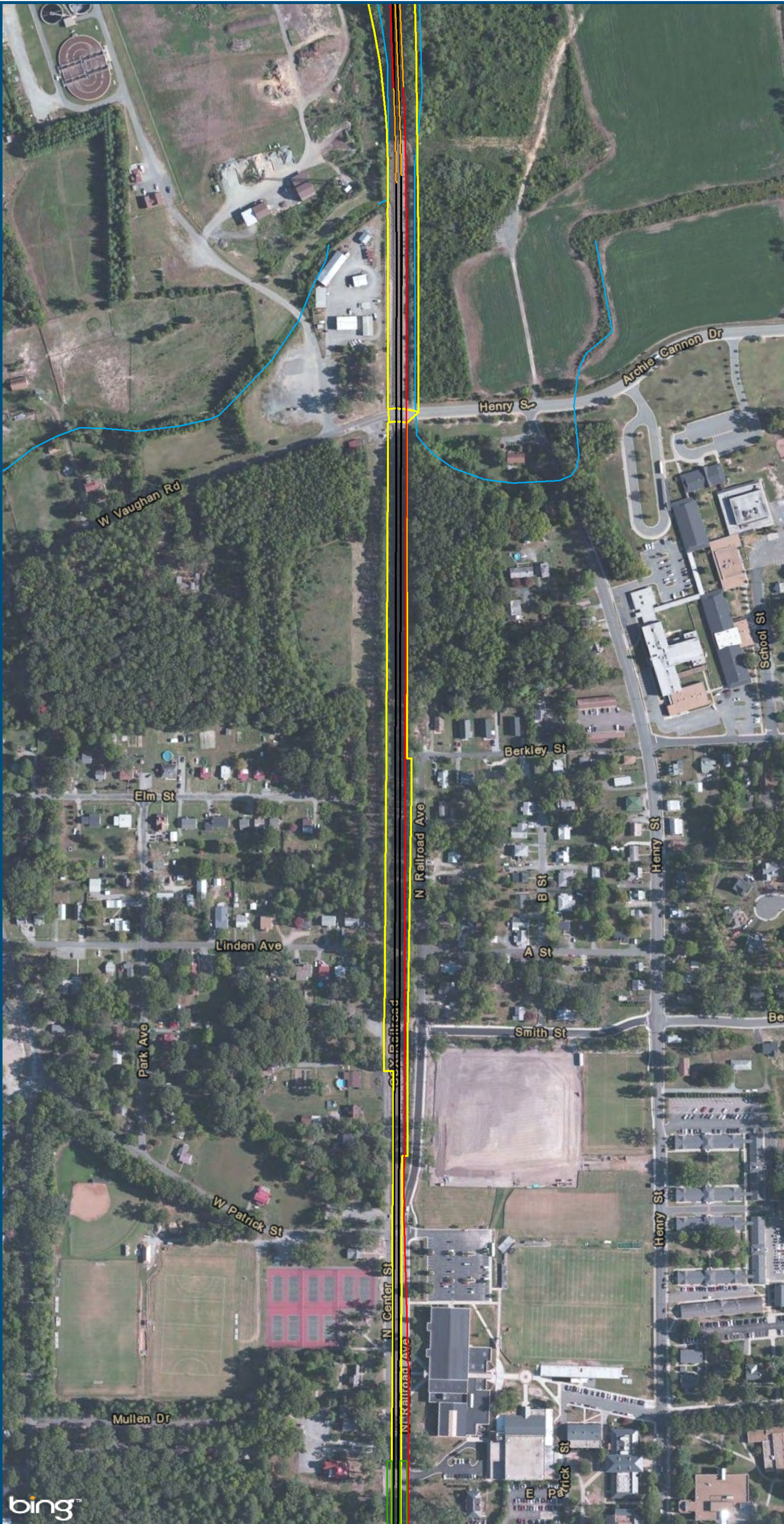
0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- Existing Track
- New Track
- ▭ CSXT Right-of-Way
- Streams

Figure V-43
Central Virginia
Optimized
Alignment Option

\\dlmain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AIDev-Concept\Eng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Chr6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.06.2015



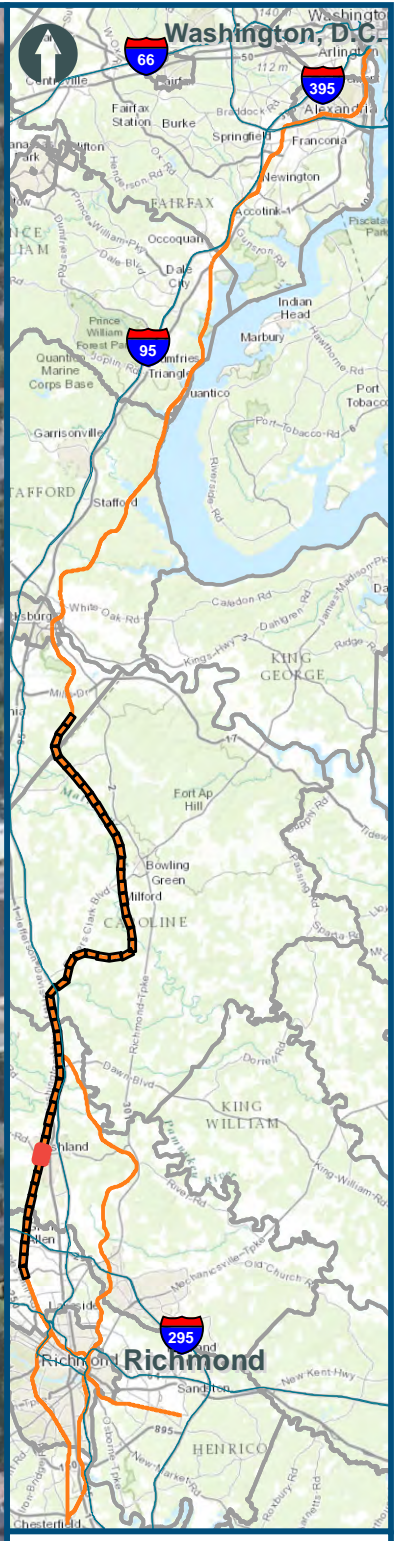
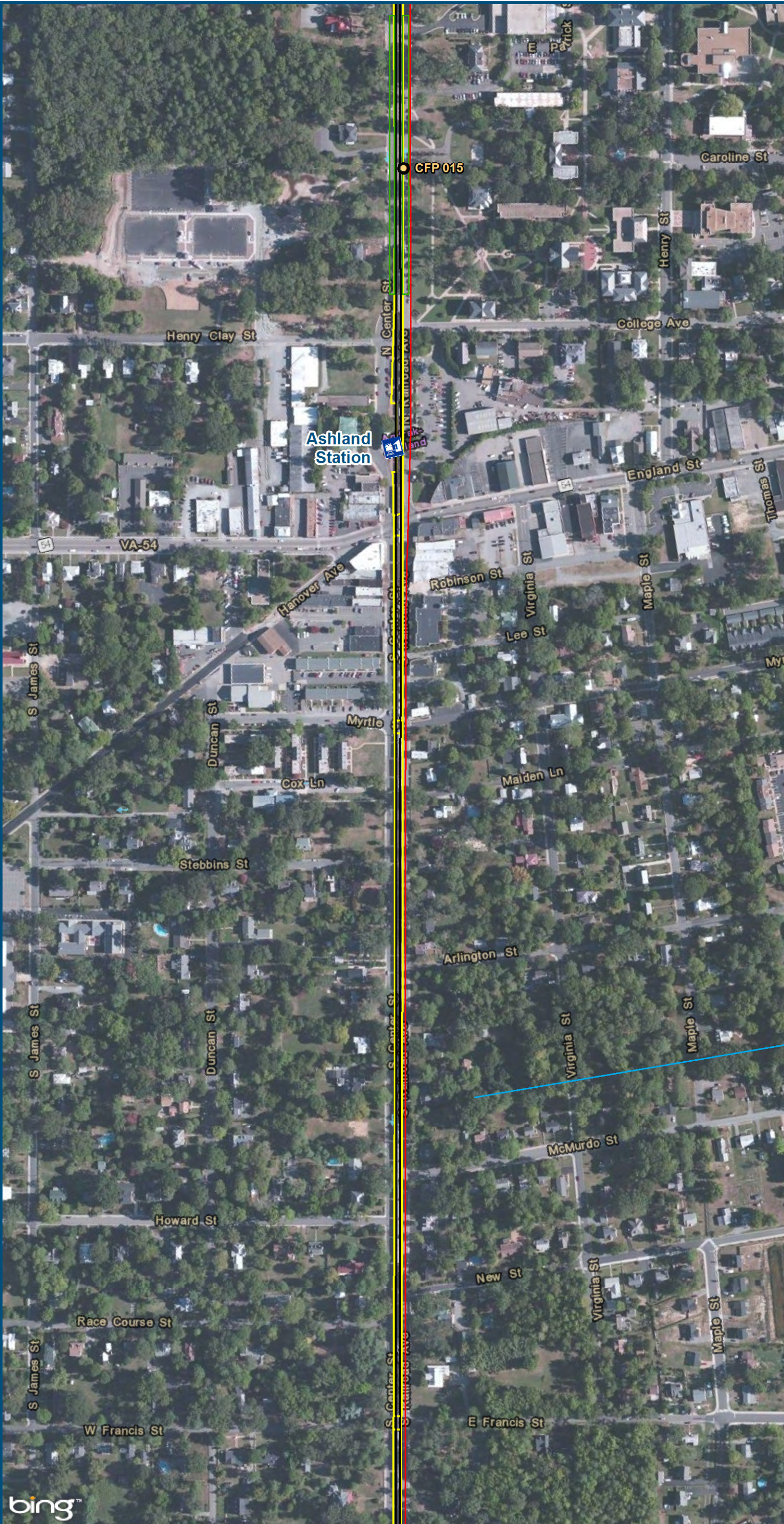
0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- Existing Track
- New Track
- Station Platform
- Shifted Track
- Remove Track
- CSXT Right-of-Way
- Streams

Figure V-44
Central Virginia
Optimized
Alignment Option

\\dlmain\GIS_DATA\GIS\Projects\11545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AllDev-Concept\Eng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Ch6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.06.2015

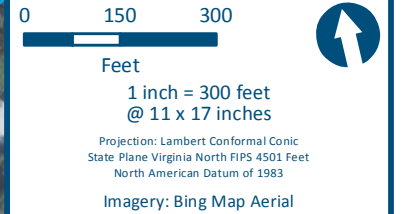
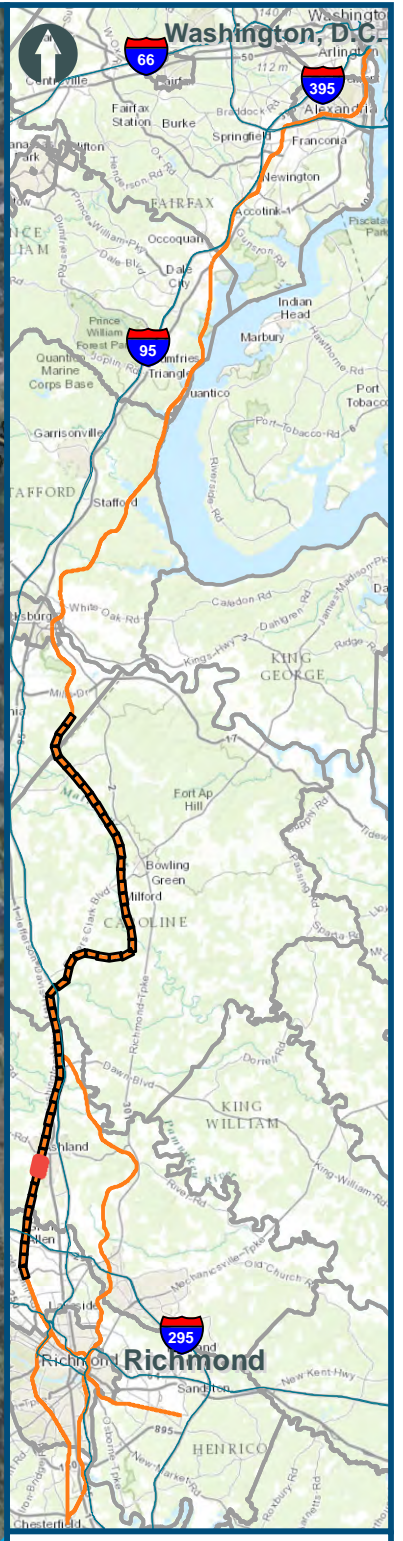
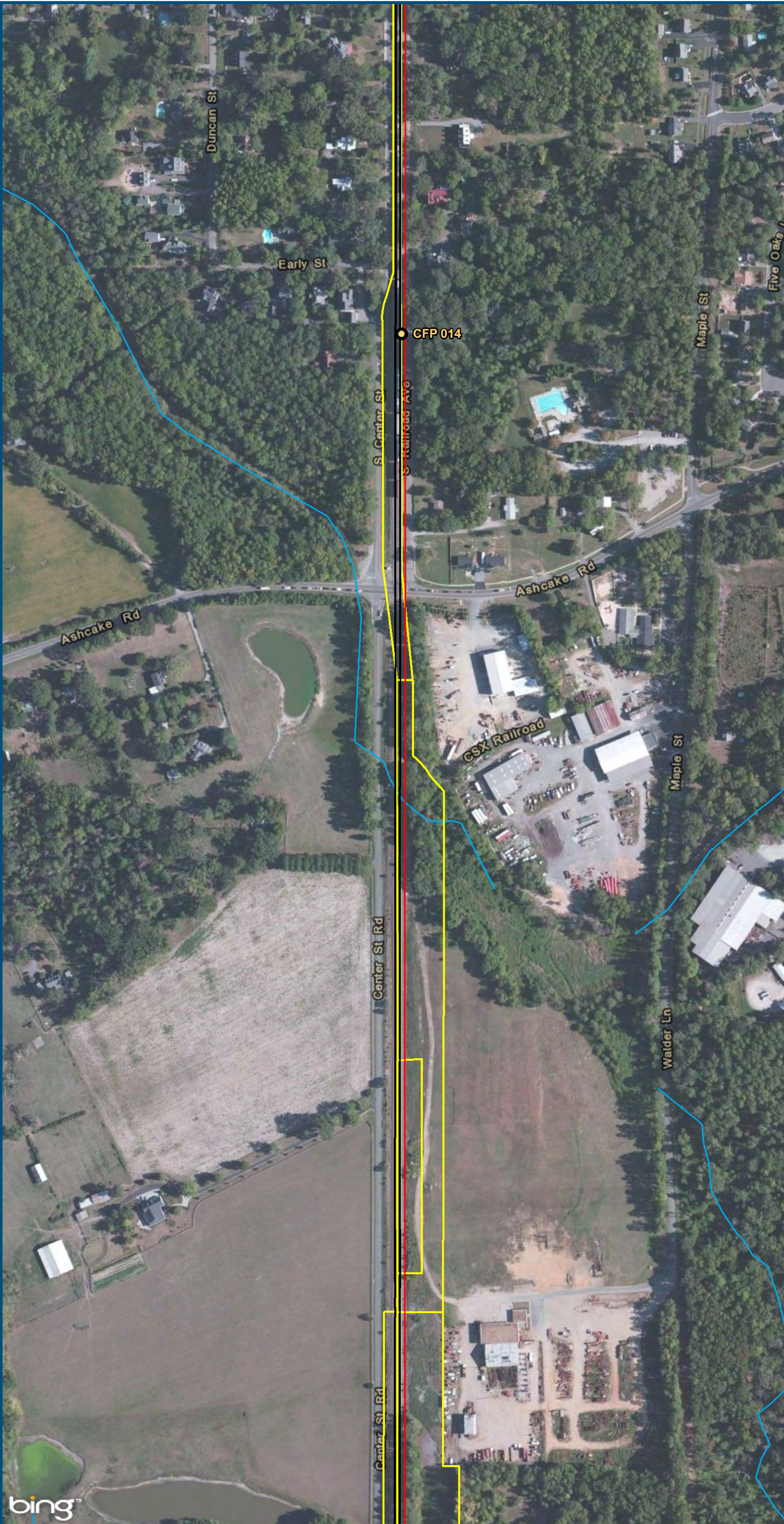


0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- Amtrak Station
 - CSXT Mileposts
 - Existing Track
 - New Track
 - Station Platform
 - Shifted Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-45
Central Virginia
Optimized
Alignment Option

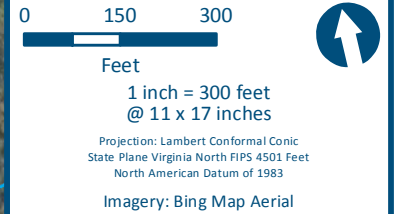
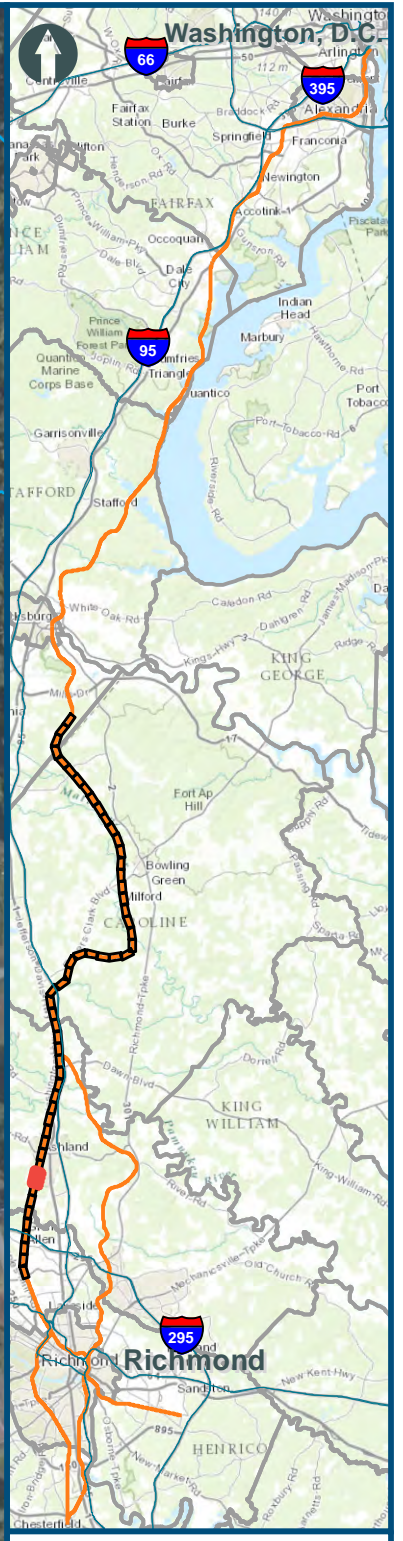
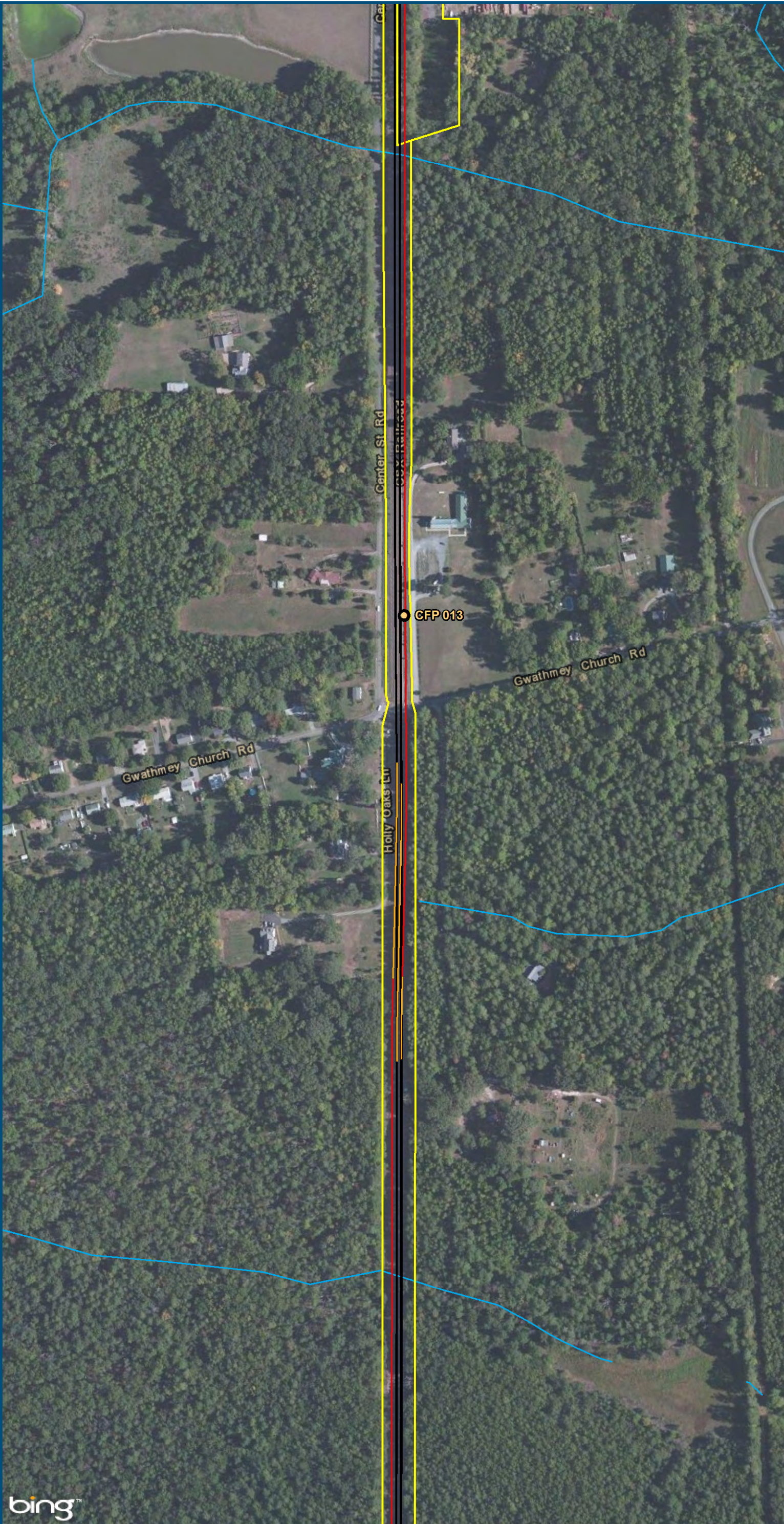
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - CSXT Right-of-Way
 - Streams

Figure V-46
Central Virginia
Optimized
Alignment Option

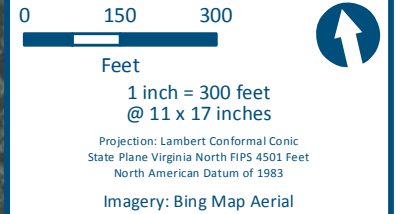
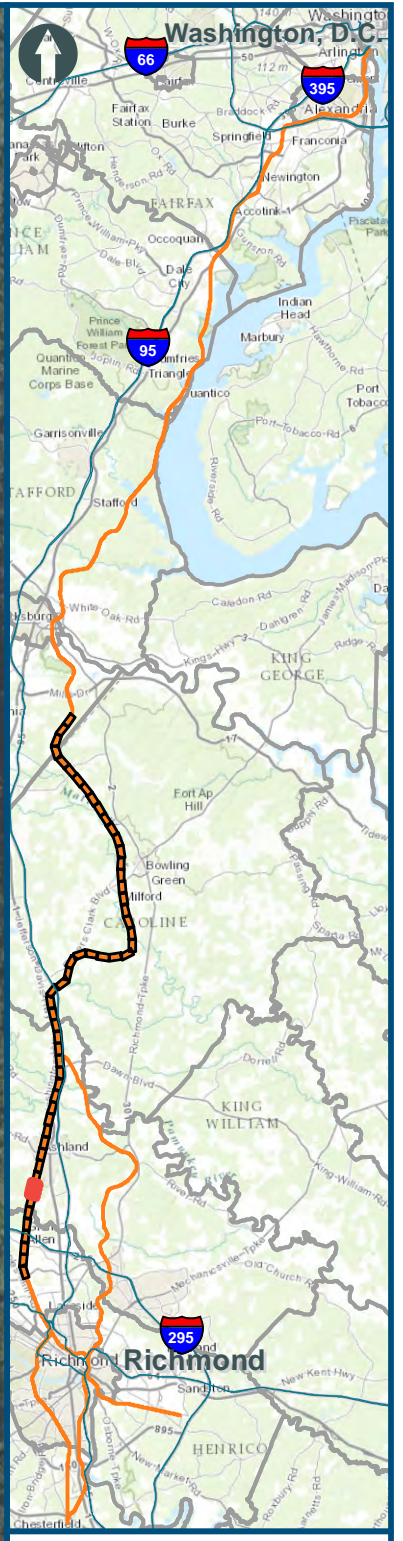
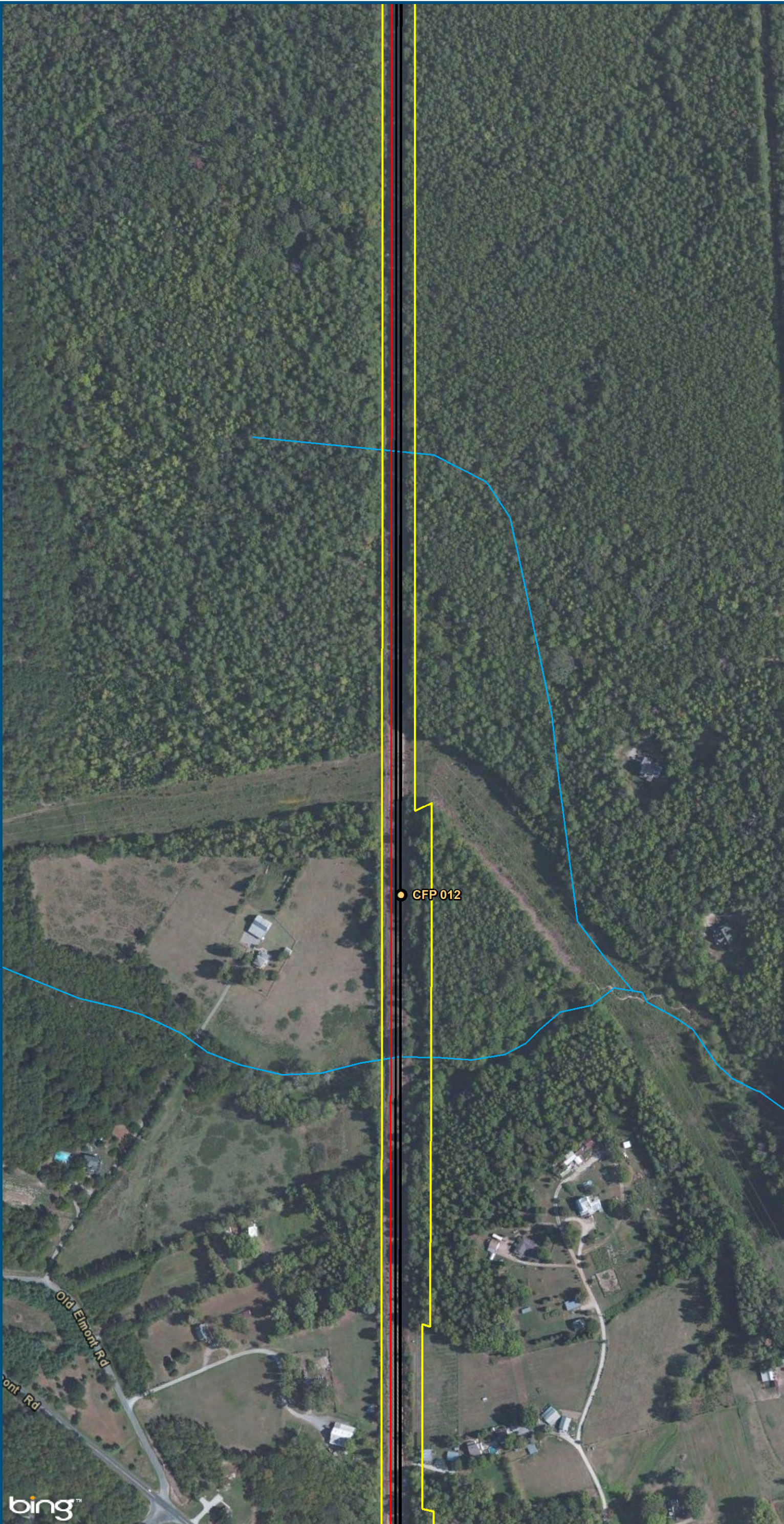
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - CSXT Right-of-Way
 - Streams

Figure V-47
Central Virginia
Optimized
Alignment Option

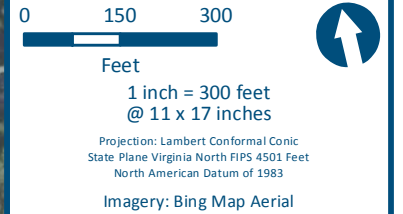
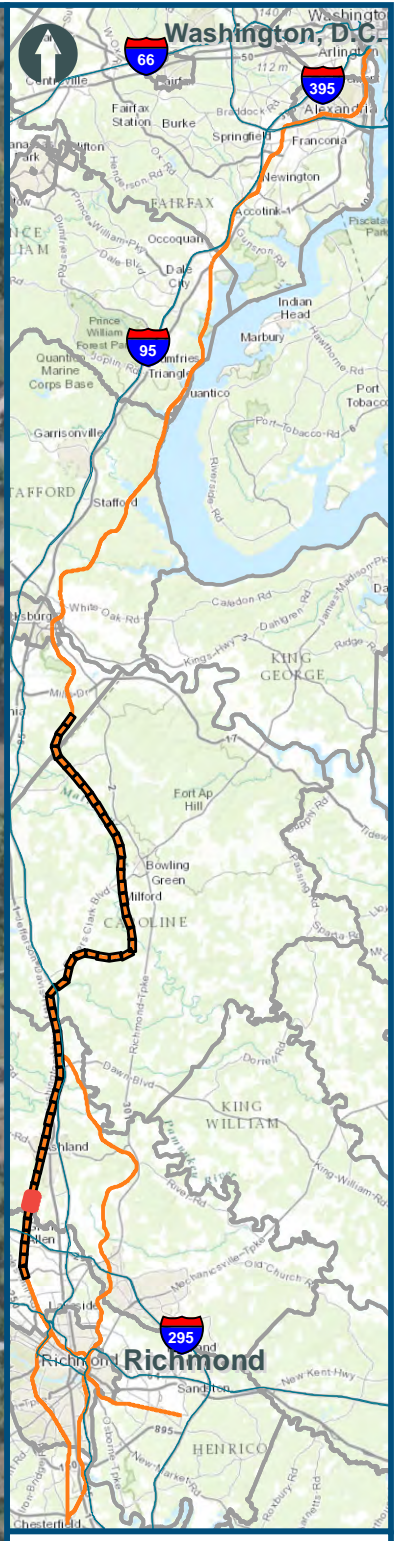
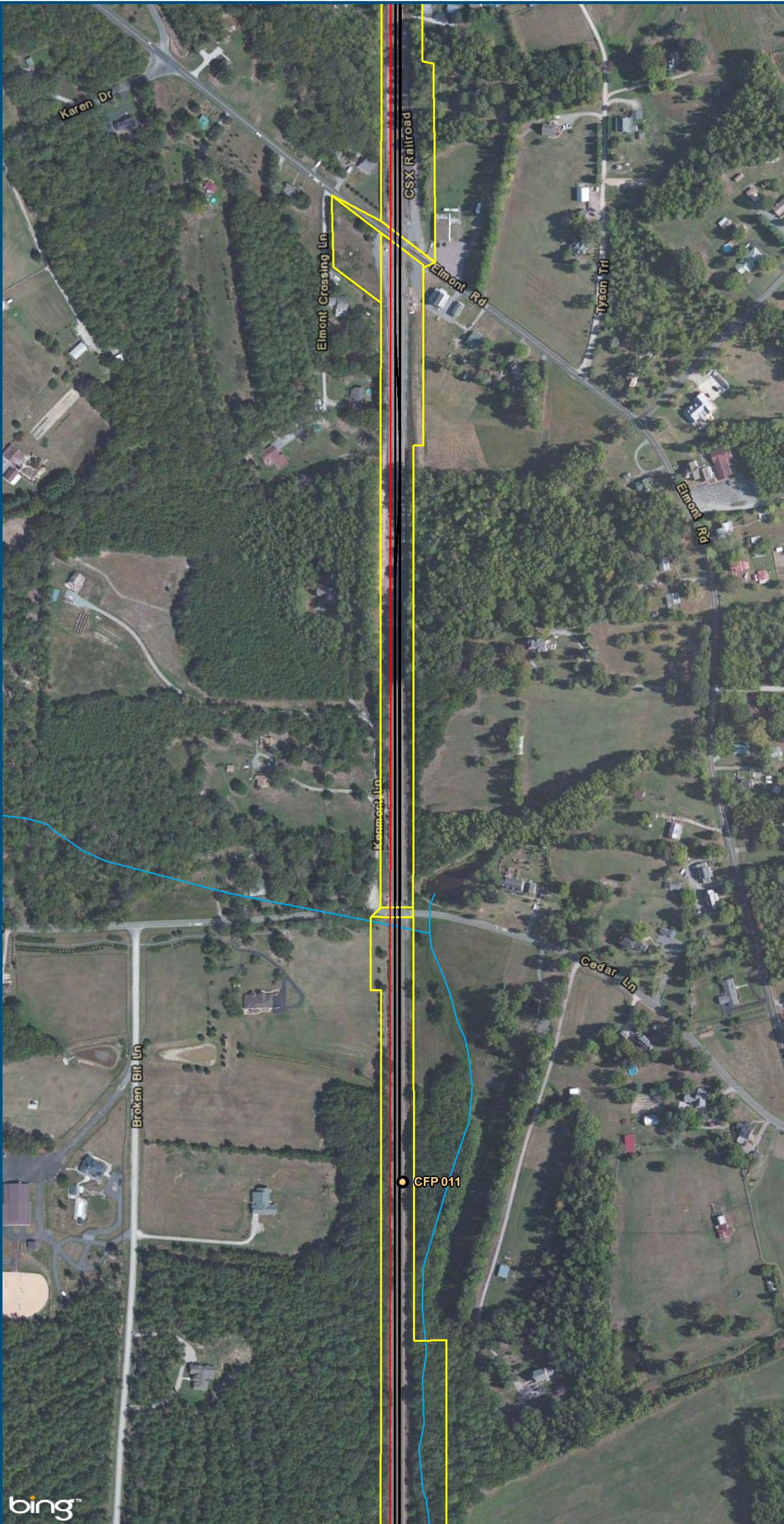
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - CSXT Right-of-Way
 - Streams

Figure V-48
Central Virginia
Optimized
Alignment Option

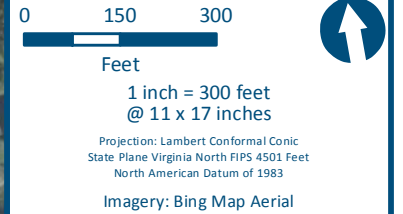
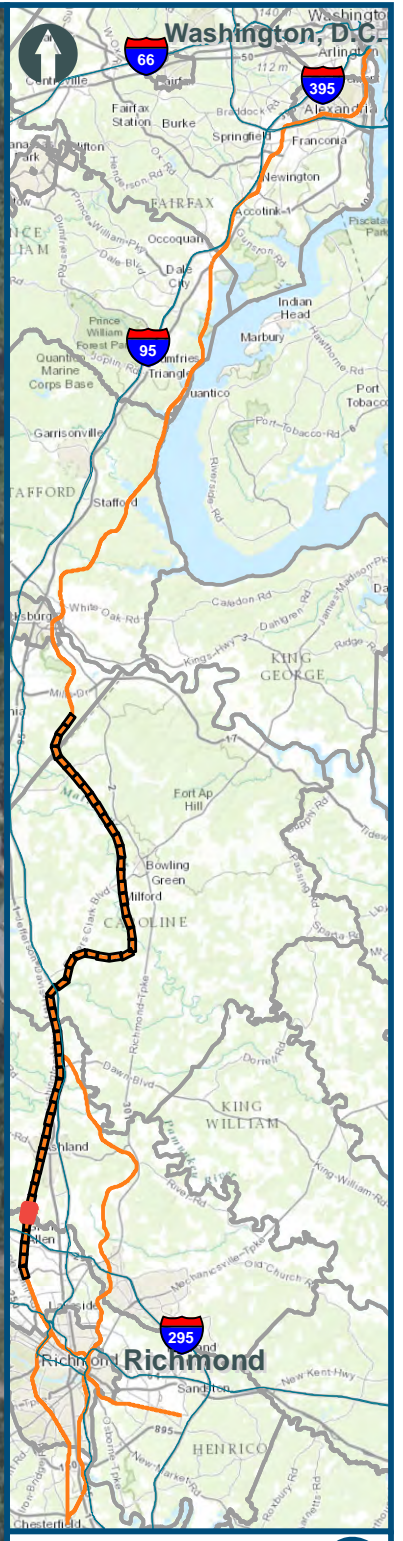
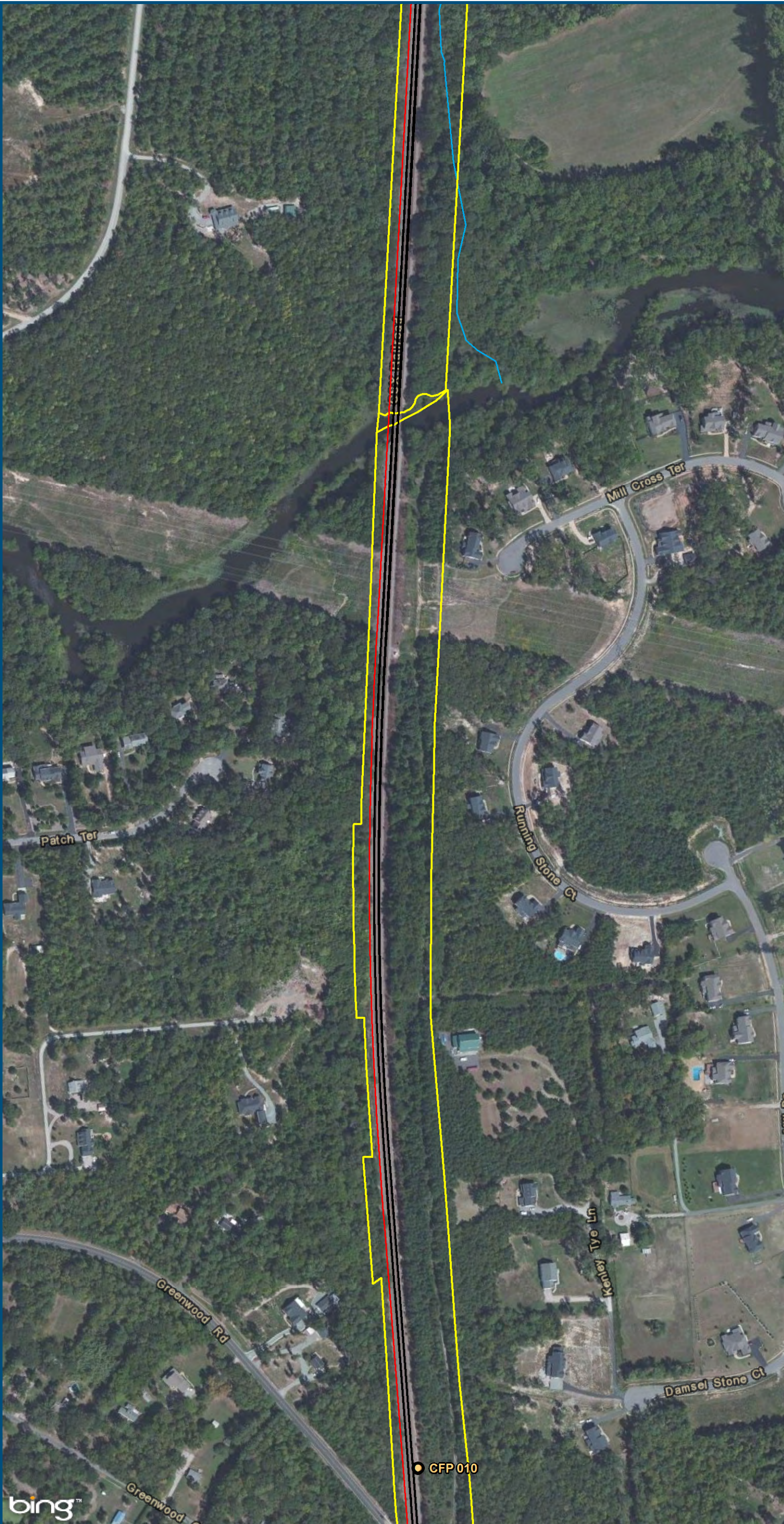
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - CSXT Right-of-Way
 - Streams

Figure V-49
Central Virginia
Optimized
Alignment Option

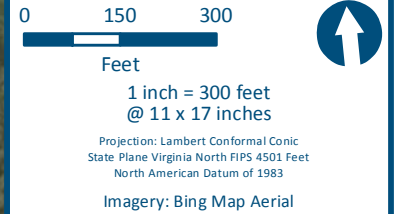
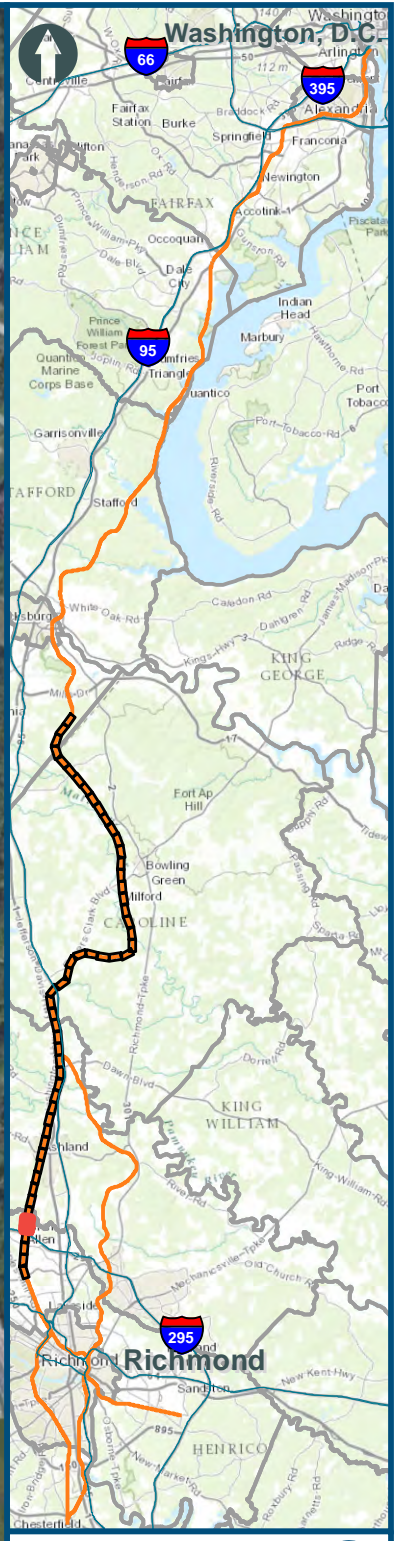
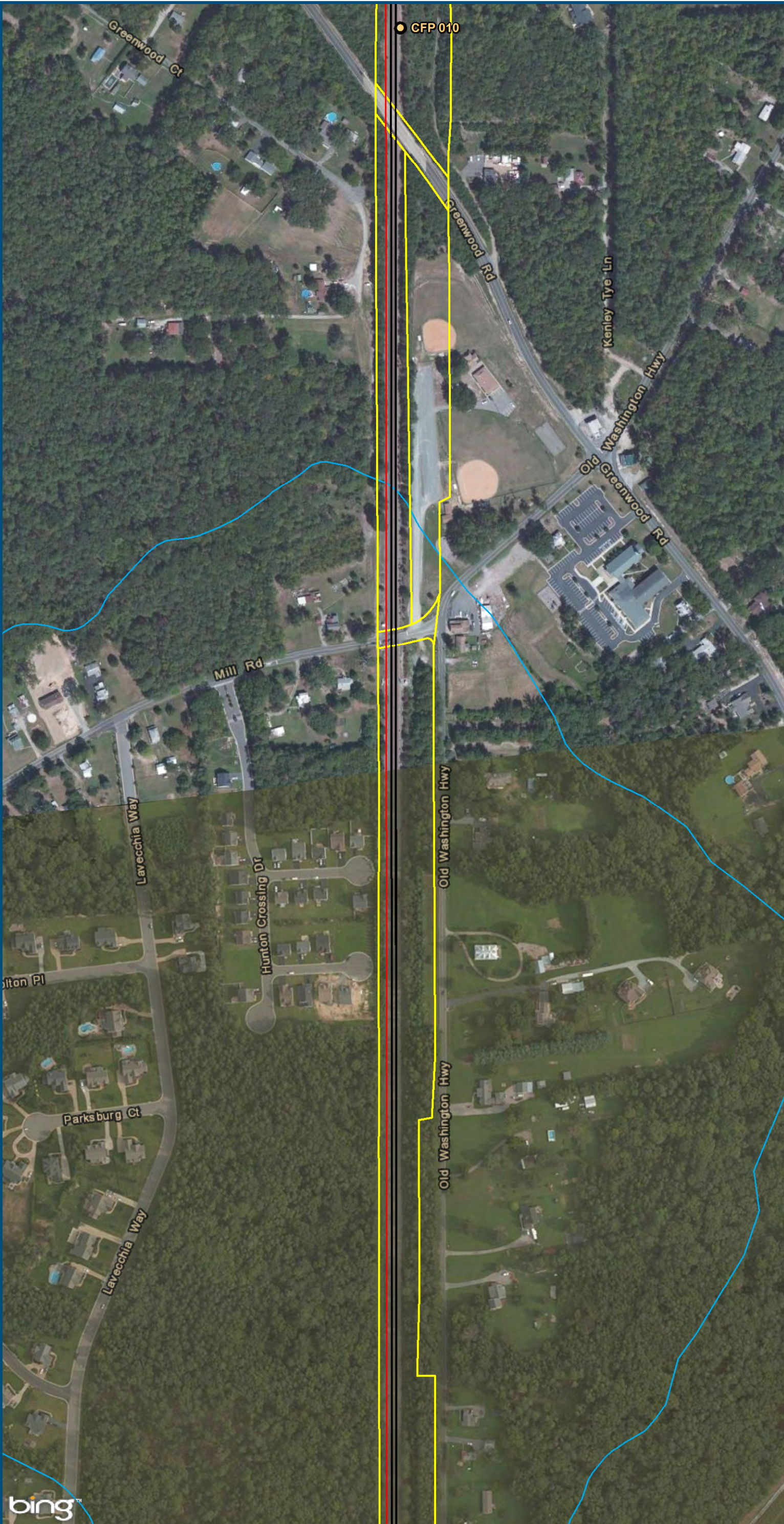
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-50
Central Virginia
Optimized
Alignment Option

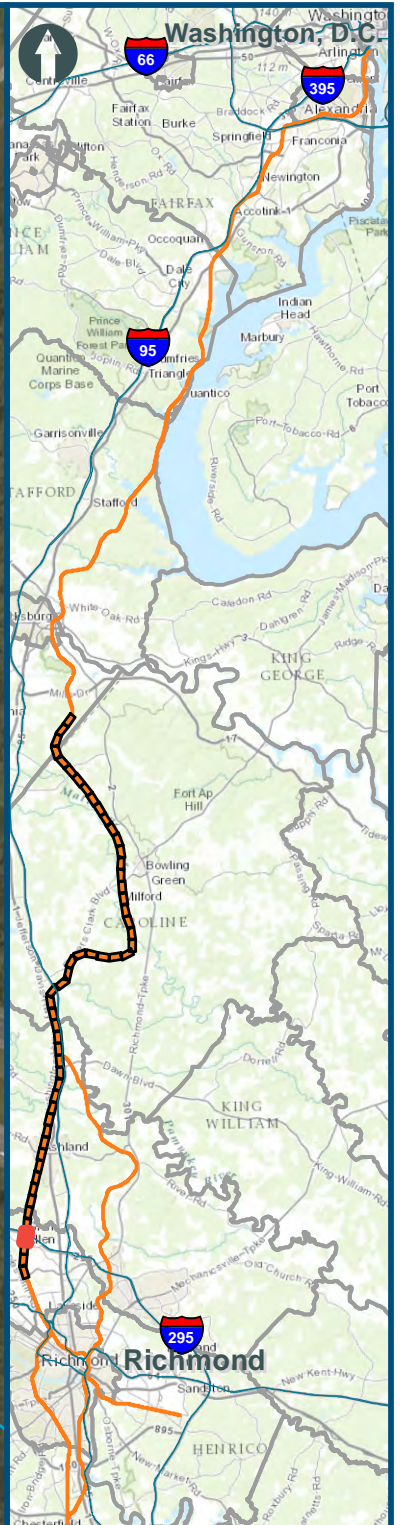
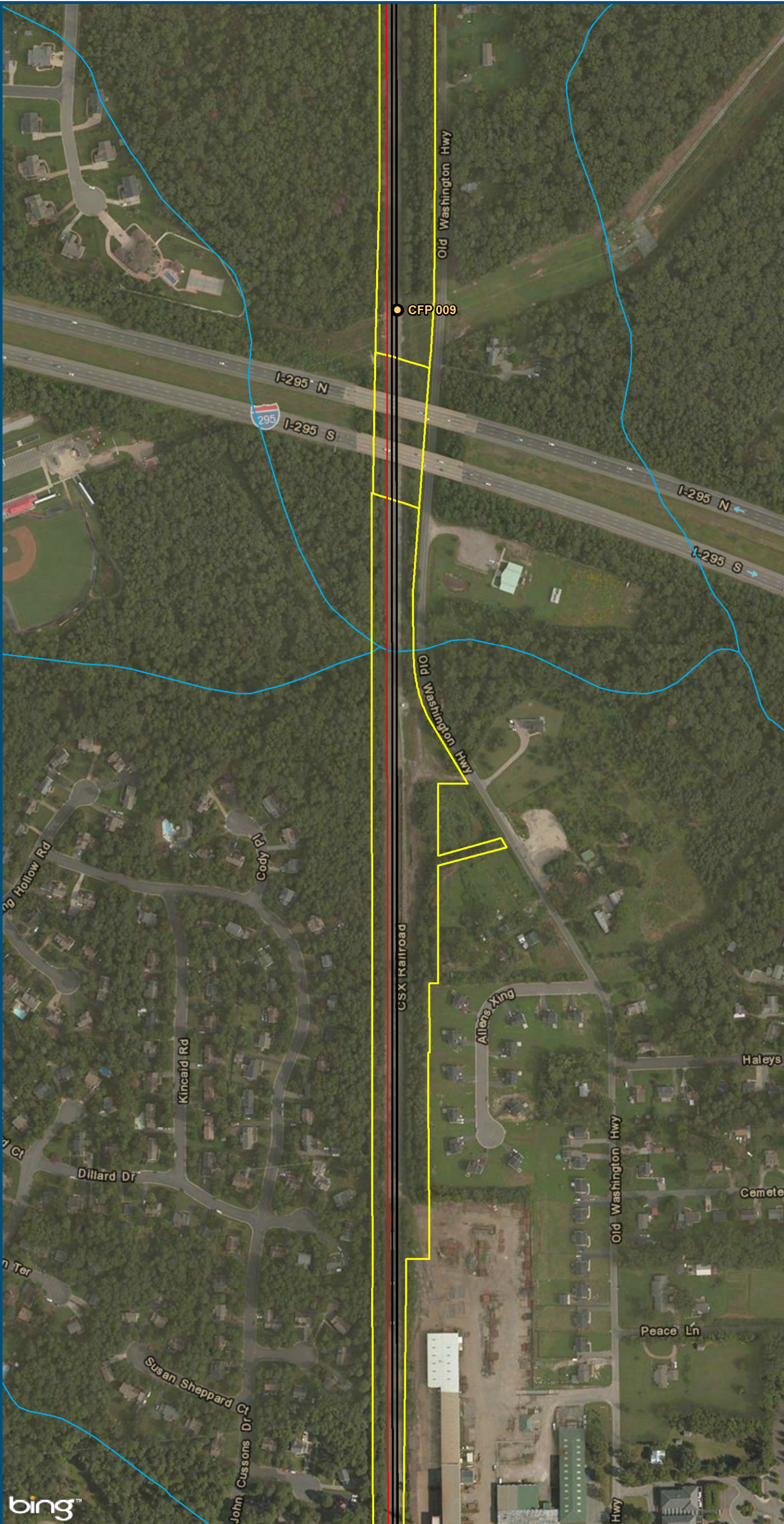
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-51
Central Virginia
Optimized
Alignment Option

\\dlmain\GIS_DATA\GIS\Projects\011545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AIDev-ConceptEng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Ch6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.02.2015

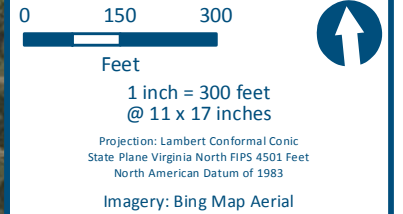
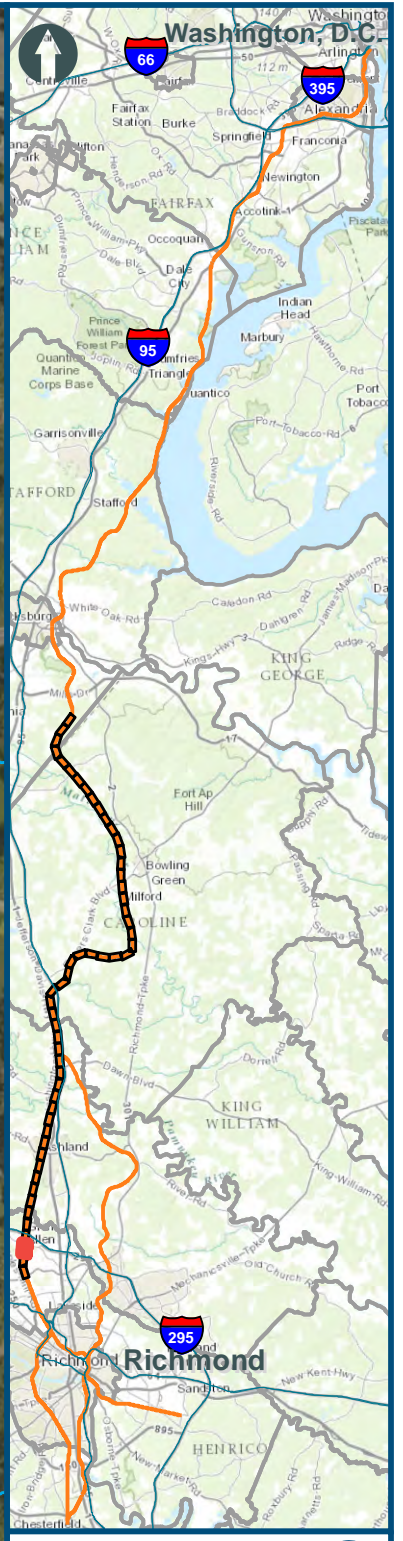
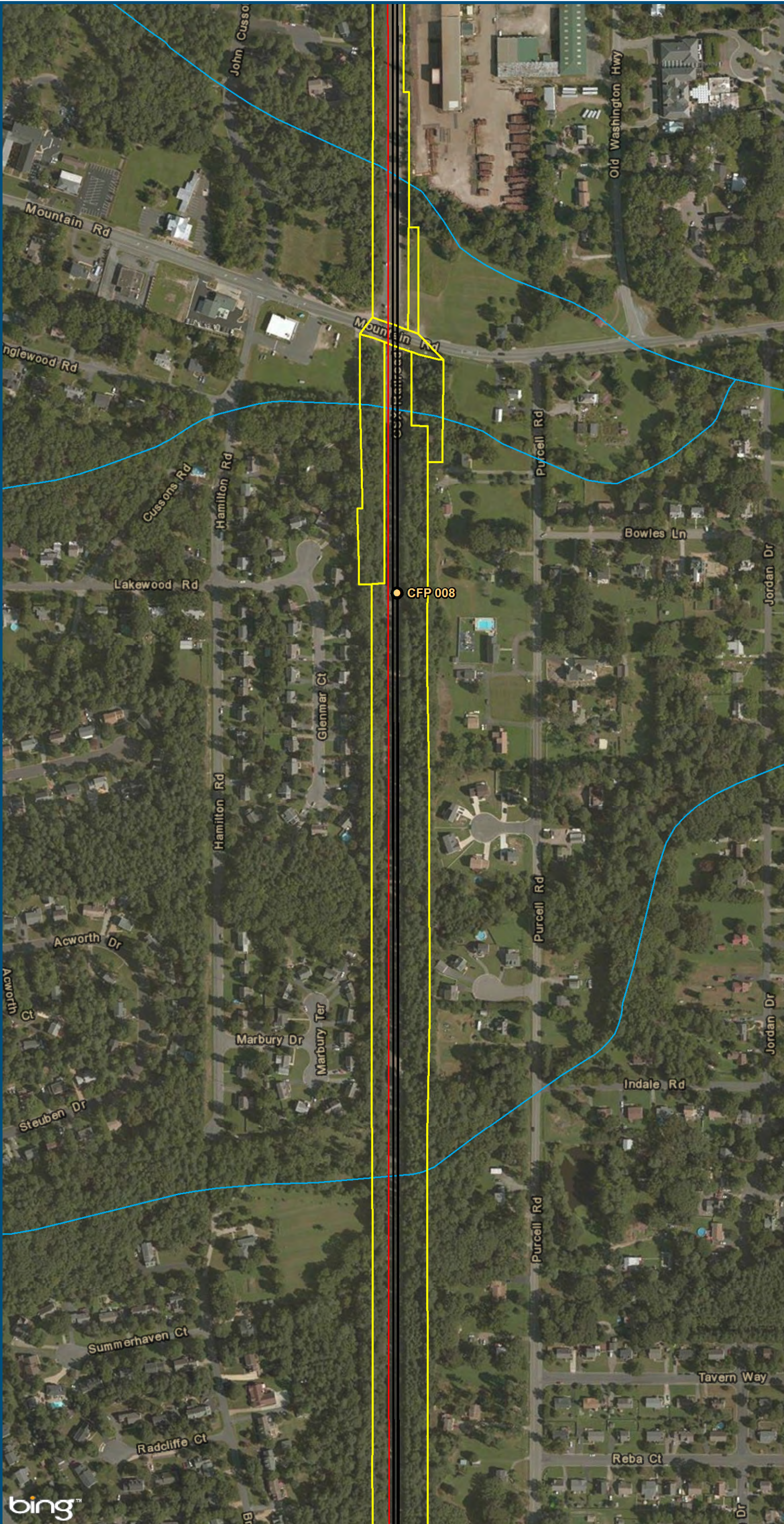


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - ▭ CSXT Right-of-Way
 - Streams

Figure V-52
Central Virginia
Optimized
Alignment Option

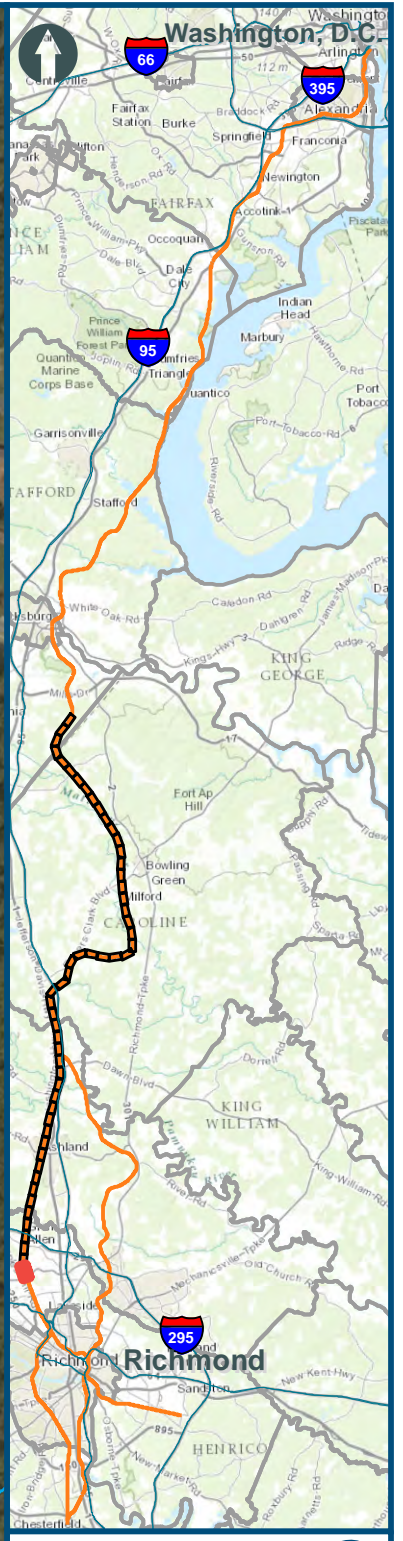
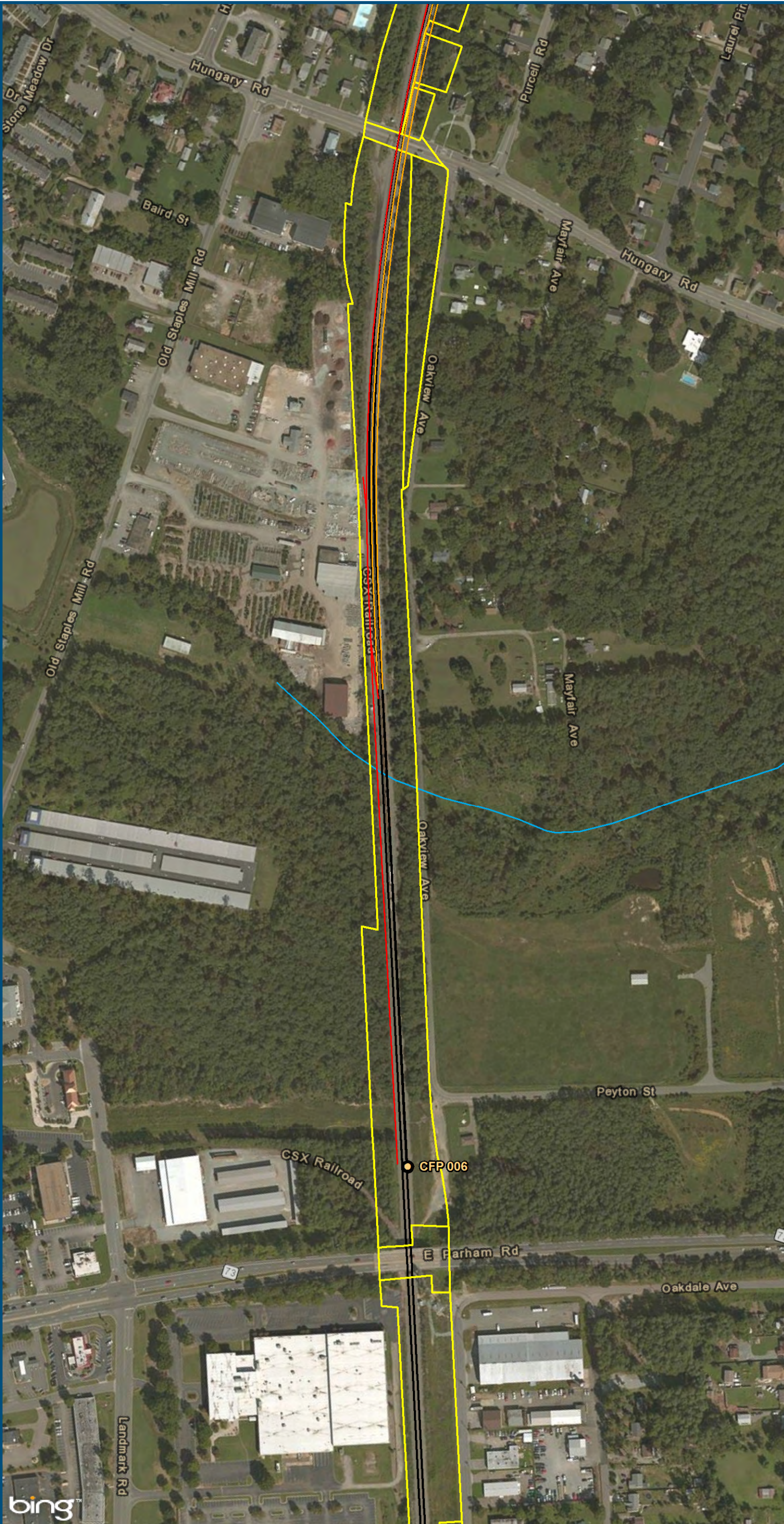
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- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-53
Central Virginia
Optimized
Alignment Option

\\dlmain\GIS_DATA\GIS\Projects\11545_VA\DeptofRails-PublicTransportation\0239056_RAPS-4\AIDev-ConceptEng\map_docs\mxd\Alt_Tech_Report\DC2RVA_Chr6_Appendices_CEN_Optimized_Alignments_11x17.mxd | Last Updated: 11.02.2015



0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - Existing Track
 - New Track
 - Shift Track
 - Remove Track
 - CSXT Right-of-Way
 - Streams

Figure V-55
Central Virginia
Optimized
Alignment Option