

Access Roads for Phase 1 of the Project in the DRB

Road No.	Milepost ¹	County	Length (ft) ²	Acreage	New/Existing ³	Nominal LOD Width (ft) ⁴	Existing Condition	Improvement Needed ⁵	Improvement Distance (ft) ⁶	Temporary/ Permanent ⁷	Justification
AR-030	14.4	Luzerne	11,047	7.508	Existing	30	Gravel	No	0	Temporary	Access to ROW in remote area. Would minimize clearing.
AR-031B	16.6	Luzerne	116	0.078	New	30	Grass and forest	Yes	116	Temporary	Access to ROW in remote area.
AR-031C	15.7	Luzerne	11,171	7.626	Partially Existing	30	Matted, forest and gravel	Yes	1,811	Temporary	Access for heavy equipment
AR-031DN	19.6	Luzerne	94	0.018	New	15	Grass	Yes	94	Permanent	Access to mainline valve
AR-033	21.8	Luzerne	11,979	8.109	Existing	30	Gravel	No	0	Temporary	Access to ROW in remote area. Access to north side of Lehigh River crossing.
AR-033A	22.4	Luzerne	3,756	2.579	Partially Existing	30	Forest and dirt	Yes	881	Temporary	Access to ROW in remote area. Access to north side of Lehigh River crossing.
AR-033B	22.8	Luzerne	13,435	9.255	Partially Existing	30	Gravel, dirt and forest	Yes	1,368	Temporary	Access to ROW in remote area. Access to north side of Lehigh River crossing.
AR-034 ¹⁰	25	Carbon	12,148	8.442	Partially Existing	30	Paved, gravel, dirt and field	Yes	620 / 10	Temporary / Permanent	Access to ROW in remote area. Access to south side of Lehigh River crossing.
AR-034A	24.9	Carbon	4,064	2.661	Partially Existing	30	Forest and gravel	Yes	100	Temporary	Access to ROW in remote area. Access to south side of Lehigh River crossing.
AR-034B	26.3	Carbon	6,330	4.357	Existing	30	Gravel and paved	No	0	Temporary	Access to Wareyard
AR-034C	23.4	Carbon	11,159	7.630	Partially Existing	30	Forest, grass, and dirt	Yes	50	Temporary	Access to ROW in remote area. Access to south side of Lehigh River crossing.
AR-034EN	25.4	Carbon	604	0.398	Existing	30	Gravel	No	0	Temporary	Access for a turnaround for construction equipment
AR-036A	29.2R2	Carbon	15,873	10.065	Existing	30	Paved and gravel	No	0	Temporary	Access to ROW in remote area. Access to south side of wetlands.
AR-037	32R2	Carbon	433	0.319	Existing	30	Gravel	No	0	Temporary	Access to Spread 2 Preferred Contractor Yard
AR-037A	32R2	Carbon	320	0.215	Existing	30	Gravel	No	0	Temporary	Access to Spread 2 Preferred Contractor Yard
AR-037BN	32.3R2	Carbon	73	0.026	New	15	Grass	Yes	73	Permanent	Access to mainline valve
AR-040	35.8	Carbon	1,061	0.746	Partially Existing	30	Paved and grass	Yes	361	Temporary	Access for light and major equipment from the north for construction to the south
AR-045	44.8R2	Carbon	175	0.166	Existing	30	Dirt	No	0	Temporary	Access to west side of creek crossing at Sei Pike Ln
AR-046	45R2	Carbon	287	0.220	Partially Existing	30	Gravel, grass, and forest	Yes	137	Temporary	Access for light and major equipment for construction to the east and through the wetland to the south
AR-046AN	46	Carbon	89	0.034	New	15	Grass	Yes	46	Permanent	Access to mainline valve
AR-047	46.6	Carbon	1,196	0.695	Existing	30	Gravel	No	0	Temporary	Access to ROW in remote area
AR-048	48.1	Carbon	202	0.160	New	30	Grass and forest	Yes	202	Temporary	Access around guard rails to south side of Little Gap Rd crossing
AR-048AN	49R3	Carbon	541	0.393	Existing	30	Dirt and gravel	No	0	Temporary	Access to adjacent wareyard
AR-048CN	51.4R3	Monroe & Northampton	2,757	1.961	Existing	30	Dirt	No	0	Temporary	Access to facilitate crossing of Appalachian Trail
AR-048DN	52.6R3	Northampton	1,007	0.370	Existing	15	Dirt and gravel	No	0	Temporary	Access to facilitate crossing of Appalachian Trail
AR-048EN	51.8R3	Northampton	2,222	0.303	Partially Existing	30	Dirt, grass, and forest	Yes	72	Temporary	Access to facilitate crossing of Appalachian Trail
AR-050	0.51R3	Carbon	4,828	3.441	Existing	30	Paved and gravel	No	0	Permanent	Access for light and major equipment from the north for construction to the east and west
AR-050AN	0R3	Carbon	3,110	1.371	Existing	30	Dirt and gravel	No	0	Temporary	Access for Blue Mountain Side Valve

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AR-054	55.9	Northampton	169	0.136	New	30	Grass	Yes	169	Temporary	Access for light and major equipment from the east for construction to the north to support crossing Mountain View Drive and multiple stream crossings
AR-054AN	57	Northampton	52	0.019	New	15	Grass	Yes	52	Permanent	Access to mainline valve
AR-055	60.2	Northampton	730	0.538	Existing	30	Paved	No	0	Temporary	Access to ROW that minimizes impact to Monocacy Creek
AR-056A	60.5	Northampton	578	0.415	New	30	Field	Yes	578	Temporary	Access to ROW
AR-056BN	62.4R3	Northampton	28	0.011	New	15	Grass	Yes	28	Permanent	Access to mainline valve
AR-057	62.8R3	Northampton	1,379	0.972	Existing	30	Gravel	No	0	Temporary	Access to south side of railroad crossing
AR-057AN	62.7	Northampton	302	0.056	Existing	20	Paved and gravel	No	0	Temporary	Access to Wareyard
AR-057BN	62.6	Northampton	1,996	0.919	Partially Existing	20	Paved, gravel, grass and forest	Yes	546	Temporary	Access to Wareyard
AR-058	63.4	Northampton	1,371	0.961	Existing	30	Gravel	No	0	Temporary	Access for light and major equipment from the south for construction to the east and west
AR-059	64R3	Northampton	519	0.381	Partially Existing	30	Gravel and grass	Yes	44	Temporary	Access for light and major equipment from the east for construction to the north and south and to access the proposed ATWS
AR-061	64.4R3	Northampton	222	0.200	Partially Existing	30	Paved and grass	Yes	52	Temporary	Access for light and major equipment for construction to the east and south and to support crossing Route 946
AR-066N	68.2R3	Northampton	19	0.016	Partially Existing	30	Paved	Yes	19	Permanent	Access to Church Road Interconnects

Notes:

1. Mileposts are approximate. All route deviations implemented after the September 2015 FERC Filing are denoted with an "R" and indicate a milepost equation. Mileposts with an "R1" indicate route deviations implemented and provided to FERC prior to the issuance of the Draft Environmental Impact Statement. Mileposts with an "R2" indicate route deviations implemented as part of the September 2016 Supplemental Filing. Mileposts with an "R3" indicate route deviations implemented post-FERC Certificate issuance. All mileposts without an "R" indicate that the route has not changed since the September 2015 application.
2. Length of the proposed access road.
3. New = proposed road sited where there is no existing roadway; Existing = proposed road sited fully along an existing roadway; Partially Existing = proposed road sited partially along an existing roadway and partially outside of an existing roadway
4. Nominal LOD Width is the Limits of Disturbance width along a proposed access road. The width shown in the column is stated as nominal, as there may be workspace reductions along the road to avoid culverts and other existing features.
5. "Yes" indicates that a proposed access road is sited where there is no existing roadway, or an existing roadway is being expanded within a wetland or stream requiring mats or temporary equipment bridges. "No" indicates that a proposed access road is sited fully along an existing roadway and no BMPs are required. At all access roads, selective tree limb cutting and placement of temporary stone during construction may be needed.
6. For temporary access roads, improvement distance represents the linear footage of a proposed access road sited outside an existing road and linear footage of proposed access road within an existing road that is temporarily expanded within a wetland or stream during construction. For permanent access roads, improvement distance represents the linear footage of a proposed access road where permanent post construction improvements (e.g. permanent grading, placement of impervious cover) and are included as part of the PCSM design.
7. Temporary access roads will be restored to original conditions following construction. Permanent access roads may require permanent post construction improvements (e.g. permanent grading, placement of impervious cover) and are included as part of the PCSM design.
8. Access road AR-001 improvements are temporary and consist of the placement of timber mats in wetlands during construction. No permanent improvements are planned at this access road.
9. Access road AR-029 temporary improvements include matting and bridging at streams and wetlands. Permanent improvements include a permanent culvert replacement.
10. Access road AR-034 temporary improvements include siting of a proposed temporary access road outside of an existing roadway. Permanent improvements include a permanent culvert replacement.